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387500

REGION 5 RAC2

REMEDIAL ACTION CONTRACT FOR

Remedial, Enforcement Oversight, and
Non-Time Critical Removal Activities at Sites of Release
or Threatened Release of Hazardous Substances in Region 5

WORK PLAN FOR THE DEMOLITION OF BUILDINGS

Eagle Zinc OU1 Site

Hillsboro, Illinois

Remedial Action

WA No. 67-RDRD-B5Y7/Contract No. EP-S5-06-01

October 2010

PREPARED FOR

U.S. Environmental Protection Agency

PREPARED BY

CH2M HILL

FOR OFFICIAL USE ONLY

Work Plan

Work Plan for the Demolition of Buildings at the Former Eagle Zinc Facility Hillsboro, Illinois

Work Assignment 067-RDRD-B5Y7

Prepared for

US Environmental Protection Agency, Region 5

October 2010

CH2MHILL

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Appendix B Photo Log
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1.0 Introduction

The site is located in a mixed industrial/commercial/residential area in Hillsboro, Montgomery County, Illinois. The site is approximately 132 acres with about 30 acres of buildings and associated structures. There are about 23 buildings onsite that were previously used for facility operations; the types of buildings include offices, laboratories, manufacturing/processing, equipment/raw material/finished product storage, bag houses and maintenance facilities. Also located on site are railroad spurs, residual materials, two storm water retention ponds, a small pond and several roads. Active industrial operations ceased in 2003. The area has been zoned commercial/industrial and there are no plans to re-zone the area for other uses.

Previous investigations have taken place since the early 1980's. The initial Remedial Investigation started in 2001 and a draft RI Report was produced in 2005 (Remedial Investigation Report, Environ, International Corporation, January 2005). The previous investigations show multiple residue piles throughout the site that exceed screening levels provided in the RI Report. The main contaminants of concern on site include lead and cadmium. Other contaminants on-site include copper, zinc, and manganese. In 2008, the buildings and associated structures on site were sampled via XRF and revealed significantly high levels of lead concentrations in, on, and around the building structures. This sampling event led the USEPA decision to perform an interim action to address the immediate threat posed by the buildings. A removal action was conducted in January 2009 to quickly mitigate site access and exposure; the action consisted of fence installation around the most accessible areas of the site.

The USEPA has divided the site into two operable units (OUs), OU-1 and OU-2, to effectively deal with the short term risks, elevated lead concentrations in buildings (OU-1), and the long term risks associated with contaminated soil and groundwater on-site (OU-2). OU-1 building demolition is the focus of this Remedial Design.

The selected remedy for OU 1 consists of the following components:

- Building demolition – all buildings and associated structures on-site will be removed via controlled demolition.
- Asbestos containing material (ACM) abatement - Any ACM identified in the asbestos survey will be removed and disposed of off-site.
- Recycling - Salvageable material will be recycled or reused. Proceeds from recycling will be used to off-set the cost of the remedy.
- On-site consolidation - Remaining debris will be consolidated and placed in the southwest corner of the site.
- Soil cover – a one-foot soil cover will be placed as a barrier over the contaminated building debris consolidated on-site.

1.1 Purpose and Scope

The overall project objective is to decontaminate and demolish the buildings, tanks, and equipment at the Eagle Zinc Facility in a safe, cost-effective and environmentally safe manner. The following regulations and guidelines will be adhered to during the execution of this project

- OSHA standards for asbestos and lead abatement
- Site safety and health standards and procedures
- 29 CFR 1910—Occupational Safety and Health Administration Standards
- 29 CFR 1910.120—Hazardous Waste Operations and Emergency Response
- 29 CFR 1910.1200—Hazard Communication
- 29 CFR 1926—Safety and Health Regulations for Construction
- EPA 1988 Standard Operating Safety Guides
- National Institute for Occupational Safety and Health (NIOSH)/OSHA/U.S. Coast Guard/U.S. EPA. 1985. Occupational Safety and Health Guidance Manual for Hazardous Waste Site Activities.
- U.S. Army Corps of Engineers. 1996. Safety and Health Requirements Manual. EM 385-1-1.
- American National Standards Institute (ANSI). Practice for Respiratory Protection, Z88.2 and Demolition Operation-Safety Requirements, A10.6.
- Comprehensive Environmental Response, Compensation, and Liability Act (CERLCA) Section 104, 106(a), or 107
- RCRA Subtitle C & D (40 CFR 257, 260, 261, 262, 268, 273, 279).
- Clean Air Act (40 CFR 61, Subpart—National Emission Standard for Asbestos)
- Toxic Substances Control Act (40 CFR 761 - Polychlorinated Biphenyls Manufacturing, Processing, Distribution in Commerce, and Use Prohibitions)
- 49 CFR 171—General Requirements for Transportation of Hazardous Materials
- 49 CFR 172—Hazardous Materials Tables, Hazardous Materials Communications Requirements and Emergency Response Information Requirements
- Commercial and Public Building Asbestos Abatement Act (225 ILCS 207)
- Asbestos Abatement for Public and Private Schools and Commercial and Public Buildings in Illinois (77 Ill. Adm. Code 855)
- Management of Hazardous Wastes (Title 35 Ill Adm. Code, Parts 700-739)
- Management of Special Wastes (Title 35 Ill Adm. Code, Parts 807-832)

- Transporter rules (Title 35 Ill Adm. Code 809.910)
- Manifesting rules (Title 35 Ill. Adm. Code 809.501)
- Standards for Universal Waste management (35 Ill. Adm. Code, Part 848)
- When applicable, demolition Work will be accomplished in strict accordance with 29 CFR 1926-Subpart T.
- Comply with federal, state, and local hauling and disposal regulations. In addition to the requirements of the General Conditions, Subcontractor's safety requirements will conform to ANSI A10.6.
- Furnish timely notification of this demolition project to applicable federal, state, regional, and local authorities in accordance with 40 CFR 61-Subpart M.
- Air-Conditioning, Heating, and Refrigeration Institute (AHRI): Guideline K, Containers for Recovered Non-flammable Fluorocarbon Refrigerants.
- American National Standards Institute (ANSI): A10.6, Safety Requirements for Demolition Operations.
- Occupational Safety and Health Administration (OSHA), U.S. Code of Federal Regulations (CFR) Title 29 Part 1926—Occupational Safety and Health Regulations for Construction.
- Environmental Protection Agency (EPA), U.S. Code of Federal Regulations (CFR), Title 40:
- Part 61—National Emission Standards for Hazardous Air Pollutants.
- Part 82—Protection of Stratospheric Ozone.
- Part 273—Standards for Universal Waste Management.
- Commercial and Public Building Asbestos Abatement Act (225 ILCS 207)
- Asbestos Abatement for Public and Private Schools and Commercial and Public Buildings in Illinois (77 Ill. Adm. Code 855)
- Management of Hazardous Wastes (Title 35 Ill Adm. Code, Parts 700-739)
- Management of Special Wastes (Title 35 Ill Adm. Code, Parts 807-832)
- Transporter rules (Title 35 Ill Adm. Code 809.910)
- Manifesting rules (Title 35 Ill. Adm. Code 809.501)
- Standards for Universal Waste management (35 Ill. Adm. Code, Part 848)
- Waste Acceptance Criteria for the Approved Disposal and Recycling Facilities

In preparation for the demolition, the following activities have been completed: asbestos, lead and universal wastes have been identified and quantified for abatement and disposal,

building materials have been sampled and analyzed, and this technical work plan and a safety plan (under separate cover) have been prepared.

This demolition technical plan will address the following:

- Identify buildings, tanks, and equipment planned for demolition
- Identify utilities requiring termination and removal prior to demolition activities
- Identify decontamination requirements/procedures required prior to demolition activities
- Identify the primary roles and responsibilities of each party in the demolition project
- Identify primary methods to remove various structures, equipment, and utilities
- Include means for controlling and preventing releases of dusts and other contaminants to the environment, including stormwater pollution prevention
- Identify the waste and material disposition for each type of waste/material generated during the decontamination and demolition activities
- Identify waste/material staging and loading areas for each type of demolition material

1.2 Work Plan Format

This Work Plan presents the procedures for decontamination and demolition activities at the Eagle Zinc site. The Work Plan is organized as follows:

Section 1.0, Introduction. Describes the project location and background, the scope of work and objectives, project organization and management, and project schedule.

Section 2.0, Plant History/Description. Describes facility history and description of facilities to be demolished.

Section 3.0, Site Preparation. Presents the approach to setting up staging areas and establishing work zones prior to other demolition-related activities.

Section 4.0, Utility Plan. Describes utilities that will need to be isolated prior to demolition activities and procedures to be followed during utility isolation, re-routing or removal.

Section 5.0, Decontamination Plan. Describes decontamination procedures required for buildings, tanks, and equipment prior to demolition and removal.

Section 6.0, Demolition Plan. Describes the facility categories, sequence of activities, facility tracking, preparation for demolition and decommissioning, demolition of facilities, decommissioning of facilities, debris disposition, final site restoration, and final site walk-through.

Section 7.0, Waste Management Plan. Presents the approach to identification, characterization, handling, treatment, and disposal of both hazardous and non-hazardous waste generated during field activities.

Section 8.0, Re-use/Recycling Plan. Identifies materials for re-use/recycling and evaluates options for handling, processing and re-use/recycling.

Section 9.0, Implementation Schedule. Presents draft schedule for decontamination/demolition activities.

Section 10.0, Demobilization and Closure Plan. Describes site restoration, final site walk-through and acceptance, demobilization of personnel and equipment, closure documentation, and project closeout, including the preparation of as-built drawings.

Appendix A, Hazardous Materials Survey Reports. Presents results from the hazardous materials survey of Eagle Zinc facilities conducted by Environmental Design International, Inc. in August 2010. These reports will be the basis for determining which buildings require asbestos, lead-based paint and universal waste abatement and management prior to demolition and decommissioning.

Appendix B, Photo Log. Includes photos of buildings, tanks and equipment to be demolished.

Appendix C, Specifications. Includes specifications for execution of the decontamination and demolition activities.

2.0 Plant History

The following information concerning the history of the Site is largely summarized from the report entitled *CERCLA Expanded Site Inspection Report* prepared by the Illinois Environmental Protection Agency (IEPA) in 1994, a September 5, 2000 letter prepared by Eagle-Picher Industries (Eagle-Picher) responding to an information request received from IEPA, a report entitled Environmental Risk Assessment prepared by Risk Science International in 1982, historical information sources reviewed at the Hillsboro Public Library, and discussions with Eagle Zinc Company personnel. Zinc processing operations began at the Site in 1912, at which time the facility operated as a zinc smelter under the name Lanyon Zinc Company. The smelting products included zinc and sulfuric acid. The Site was purchased by Eagle-Picher Industries in 1919. Eagle-Picher conducted zinc smelting and manufacture of sulfuric acid until approximately 1935. Sometime after 1919 and most likely during the early 1920s, the manufacture of zinc oxide and leaded zinc oxide commenced at the Site. The leaded zinc oxide was manufactured by combining basic lead sulfate (obtained from off-site sources) with zinc oxide. Additional details on the leaded zinc oxide operation are currently unavailable; however, these activities ceased around 1958 Eagle-Picher continued to manufacture zinc oxide at the Site until November 1980, at which time the Site was purchased by The Sherwin-Williams Company (Sherwin-Williams). According to Sherwin-Williams personnel, Sherwin-Williams conducted zinc oxide manufacturing operations for a period of less than one year. In 1984, the facility was sold by The Sherwin-Williams Company to Eagle Zinc Company, a division of T.L. Diamond & Company. Eagle Zinc predominantly continued manufacturing zinc oxide using the American process employed by Sherwin-Williams and Eagle-Picher.

There are 23 buildings onsite that were previously used for facility operations; the types of buildings include offices, laboratories, manufacturing/processing, equipment/raw material/finished product storage, bag houses and maintenance facilities. Also located on site are railroad spurs, residual material, two storm water retention ponds, a small pond and several roads. Active industrial operations ceased in 2003. The area has been zoned commercial/industrial and there are no plans to re-zone the area for other uses.

2.1 Description of Buildings to be Demolished

A site map showing the location of the buildings at the Eagle Zinc site is shown on Figure 2-1. The building designations were developed as part of the hazardous material survey. Photographs of the buildings are presented in Appendix B. The buildings scheduled for demolition are as follows:

TABLE 2-1
Description of Buildings to be Demolished
Work Plan for the Demolition of Buildings at the Former Eagle Zinc Facility

Name	No. of Floors	1st Floor Square Footage	2nd Floor Square Footage	3rd Floor Square Footage	Construction Type	Past Use
Building A	2	10,000	10,000	N/A	Concrete, Steel	Product Storage
Building B	1	9,500*	N/A	N/A	Brick, Tin, Steel	Product Storage
Building C	1	8,280	N/A	N/A	Tin, Steel	Process/Furnace
Building D	1/2/3	59,378	59,378**	7,500	Brick, Concrete, Steel	Process/Fan Houses/Lab/Storage
Building E	2	27,900	27,900	N/A	Concrete, Steel	Process/Zinc Oxide Furnace House/Main Rotary Kiln
Building F	1	1,625	N/A	N/A	Steel	Furnace Room
Building G	1	12,000	N/A	N/A	Steel	Ore Storage
Building H	N/A	15,600	N/A	N/A	Concrete Pad/Walls	Product Storage
Building I	1	1,620*	N/A	N/A	Steel	Process/Baghouse
Building J	1	7,400*	N/A	N/A	Steel, Brick	Process, Large Furnace Inside
Building K	1	6,000*	N/A	N/A	Brick, Steel	Storage
Building L	1	1,600	N/A	N/A	Brick	Chemical Lab
Building M	2	15,000	8,400***	N/A	Brick, Wood, Concrete	Machine Shop Storage, Group Space
Building N	1	5,200	N/A	N/A	Concrete Block, Wood	Office/Labs
Building O	1	1,750	N/N	N/A	Brick, Wood	Unknown
Building P	1	1,500	N/A	N/A	Brick, Wood	Unknown

* - Building is single story, however is double height

** - Approx 15,000 sf of building's second floor is single story, however is double height (same height as third floor).

*** - Other 6,600 sf of building is single story; however is double height (same height as second floor)

2.2 Description of Tanks to be Demolished

There are currently 2 aboveground tanks that are located at the site. An inventory of the tanks is provided below. The tanks have not been sampled to determine contents or quantity in tank.

TABLE 2-2
Description of Tanks to be Demolished
Work Plan for the Demolition of Buildings at the Former Eagle Zinc Facility

Tank	Diameter	Height	Capacity (gal)
Sulfuric Acid AST	30'	20'	100,000
Other AST	30'	20'	100,000

2.3 Description of Outside Equipment to be Demolished

Equipment located outside of buildings, which is scheduled for demolition is as follows·

TABLE 2-3
Description of Outside Equipment to be Demolished
Work Plan for the Demolition of Buildings at the Former Eagle Zinc Facility

Name	Location	Material of Construction
Cooling Tower	Between Buildings I and J	Steel
Site Duct Conveyor	Between Buildings E and F	Steel

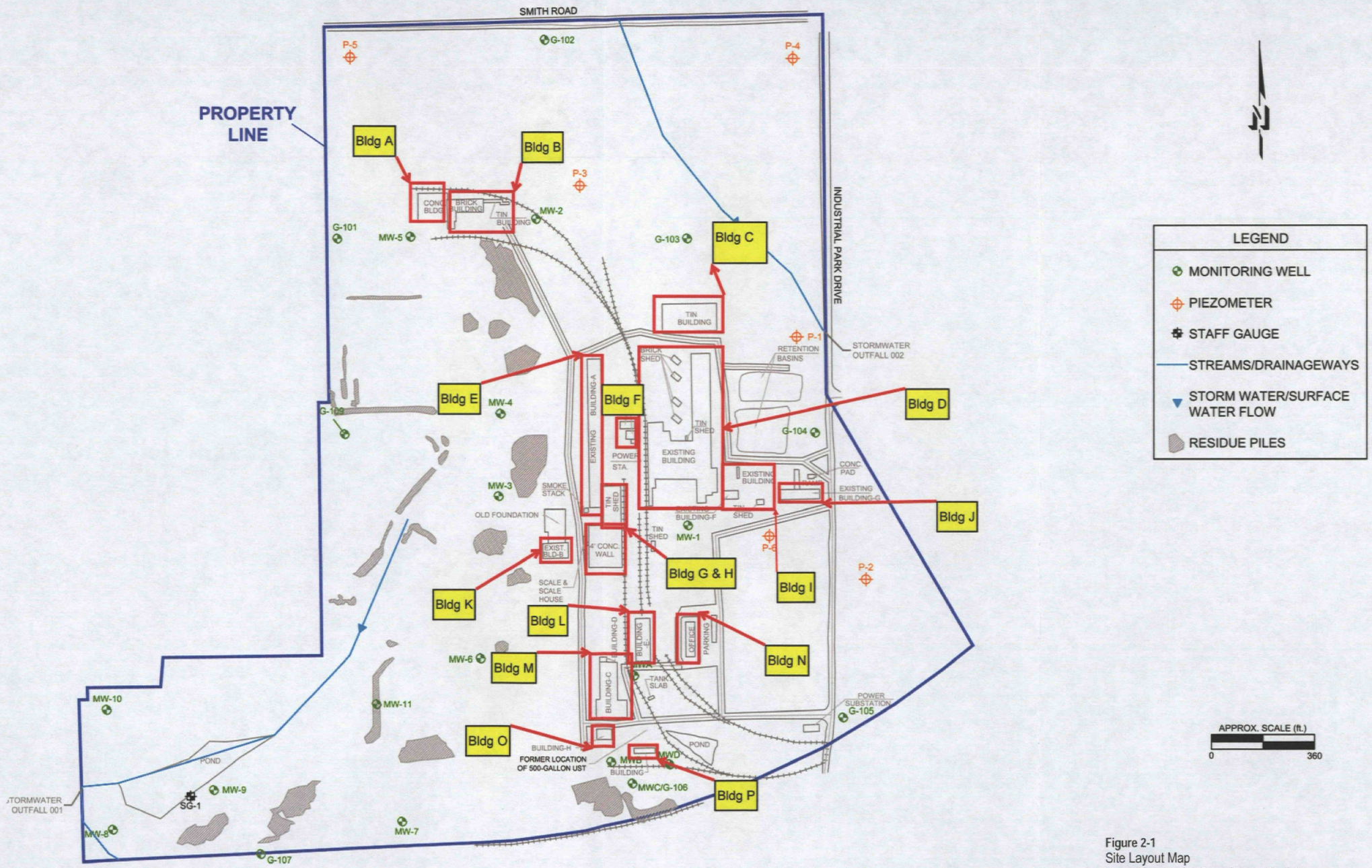

Figure 2-1
Site Layout Map
Work Plan for the Demolition of Buildings
at the Former Eagle Zinc Facility
Hillsboro, Illinois

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3.0 Site Preparation

This section describes the site preparation activities that will be completed prior to and during decommissioning and demolition activities at the Eagle Zinc site. Prior to commencement of site preparation work at the site, work areas and access/haul routes will be delineated. Delineation will continue as an ongoing activity because the work areas will constantly change based on the buildings, tanks, and equipment being demolished.

CH2M HILL personnel will verify that work areas, access/haul routes, and staging areas are coordinated with other site activities to prevent disruption to site operations.

3.1 Staging Areas

Equipment and material staging areas will be established for the laydown of demolition equipment (including heavy equipment), materials, supplies, and demolition tools. The equipment and material staging areas will be used for storage in support of decommissioning and demolition. Smaller, temporary staging areas will be set up at each facility work area, as necessary. Subcontractors will move equipment, materials, and supplies from the central staging area to each building work area as necessary. A building work area may include a single building or group/cluster of buildings.

Centralized debris stockpiles will be constructed for stockpiling debris to be crushed for re-use on site. Hazardous waste, universal wastes, and potentially toxic non-hazardous waste (such as ACM) will be staged in containers at a hazardous waste storage area(s). The following is a summary of the types of waste stockpiles that may be established in centralized debris areas as a function of final disposition:

Waste Disposal: Staging areas will be established to hold containers of polychlorinated biphenyl (PCB)-containing transformers and ballast; universal wastes; petroleum, oil, and lubricant (POL) materials; friable ACM abatement wastes; hazardous wastes, and other such waste items.

Recyclable Metal: Stockpiles will be established for the recycling of metals. Recyclable metal is metal material, equipment, and assemblies that are recovered and transported off-site for recycling. This may include items such as structural beams, columns, decking, siding, and other materials.

Non-Putrescible Waste: Non-putrescible waste will be segregated from scrap metals and concrete/brick and stockpiled to facilitate loading and hauling for off-site disposal.

Miscellaneous Stockpiles: Additional short-term stockpiles may be necessary at individual facilities or groups of facilities to support the debris sorting operation as well as to facilitate the hauling of materials.

Perimeter fencing will be installed with appropriate signage around the staging areas. Where required, stockpiles and staging areas will be lined to prevent water run-on, contain water runoff, and prevent inadvertent releases to the environment.

3.2 Access and Haul Routes

Access/haul route options between staging areas and demolition work areas will be established based on the locations of facilities that require demolition or decommissioning. Existing roads should be sufficient and no new road construction is planned. Appropriate signs will be posted along the access/haul roads, indicating traffic patterns.

3.3 Work Zone Establishment

Construction areas will be delineated with highly visible fencing, barriers, and signage. The fenced construction area will be divided into three work zones: a Support Zone (SZ), a Contaminant Reduction Zone (CRZ), and an Exclusion Zone (EZ). Each zone will be delineated using highly visible fencing or other barriers to prevent unauthorized access. Signs will be posted on or adjacent to the zone perimeter fencing in accordance with the HSP. Each work zone will provide sufficient area for equipment traffic and construction debris. Work zone areas will be located to minimize impacts on facility activities. If the designated work area contains facilities where no hazardous material mitigation is required, the Subcontractor's Site Manager and the site safety coordinator (SSC) may modify the work zone layout by eliminating the CRZ and EZ. Personnel entering any work zone will don the appropriate personal protective equipment (PPE) as specified in the Health and Safety Plan (HSP).

Equipment, material, and supply staging areas, including demolition debris stockpiles, will be located in the SZ. The break areas, portable toilets, and other support facilities, if needed, will be set up in the SZ. Equipment and personnel decontamination will occur in the CRZ. The equipment decontamination areas will be equipped with pressure-washing equipment and a sump to collect decontamination water.

Demolition and decommissioning activities, ACM abatement, decontamination and waste containerization, will occur in the EZ. Silt fences, haybales, berms, swales, and/or a drainage sump will be constructed in the EZ to manage and collect runoff as necessary.

4.0 Utilities

In August 27, 2010, a utility survey was performed at the site by The Underground Detective from Cincinnati, OH. Five utilities were identified using ground penetrating radar (GPR) and staked. Utilities identified were: water, sewer, gas, phone, and a mystery line. The staked utilities were located by GPS and plotted on Figure 4-1. These utilities will be isolated/disconnected prior to demolition activities.

4.1 Utility Isolation Procedures

Prior to initiating utility isolation, Illinois JULIE will be notified at least 48 hours and not more than 14 days prior to starting work. In addition, stakes previously installed by the Underground Detective, will be inspected. If any stakes have been destroyed or removed, they will be re-installed using the GPS data previously collected.

4.1.1 Water

The water line will be excavated at a central location of the site. The line will be cut, capped and retrofitted with a temporary connection to allow water to be available for use during decontamination/demolition activities. After demolition is complete, the temporary connection will be removed. The water line will then be permanently capped and a thrust block installed prior to backfilling the excavation.

4.1.2 Sewer

Sewer lines will be excavated at five feet outside the building footprints. After separating the sewer line from the buildings, a minimum 1-foot concrete plug will be installed within the pipe end. The sewer line will also be excavated at the site boundary, separated and plugged with concrete on both sides.

4.1.3 Gas

The gas lines will be disconnected at the entrance to the site. The gas line will be properly disconnected and capped in accordance with Ameren (Gas Utility) requirements. Work will be coordinated with Ameren by subcontractor.

4.1.4 Phone

The phone line to the office building will be removed from the building back to the first utility pole.

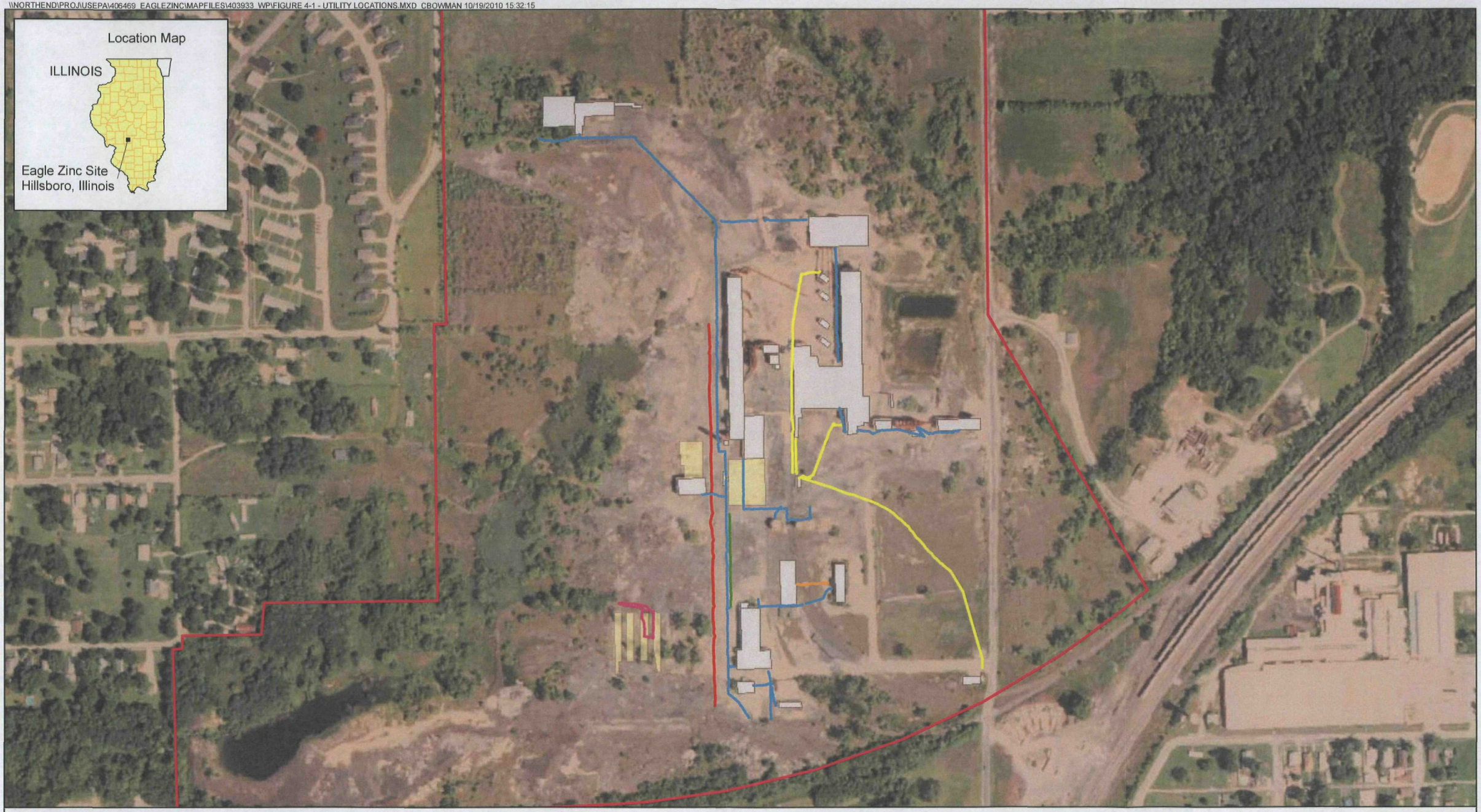
4.1.5 Mystery Line

The mystery line identified during the utility survey will be excavated to determine the pipe size and material and to identify its potential service. Based on the results, the pipe will be permanently capped as required.

4.1.6 Power

Power to the site is already terminated, therefore no power disconnects are needed.

\\NORTHEND\PROJ\USEPA\406469_EAGLEZINC\MAPFILES\403933_WP\FIGURE 4-1 - UTILITY LOCATIONS.MXD CBOWMAN 10/19/2010 15:32:15



Legend

- Site Boundary
- Sewer_GPS_08_2010
- Phone_Line_GPS_08_2010
- Mystery_Line_GPS_08_2010
- Gas_Line_GPS_08_2010
- Water_Line_GPS_08_2010
- Sink_Hole_GPS_08_2010
- Building
- Foundation

N
W E
S

0 150 300 600 Feet

Figure 4-1
Utility Locations
Work Plan for the Demolition of Buildings at the Former Eagle Zinc Facility
Hillsboro, Illinois

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5.0 Decommissioning and Decontamination Plan

Based upon site visits, surveys and a review of the plant operating history, an overview of the decommissioning and decontamination activities that must be done prior to demolition for buildings, tanks, equipment, and piping scheduled for demolition is provided. Decommissioning and decontamination activities will include:

- Asbestos Abatement
- PCB-Containing Equipment Removal
- Universal Waste Removal
- Interior Decontamination of Buildings
- Interior Decontamination of Equipment/Piping

Procedures for decontamination activities are described below.

5.1 Asbestos

An asbestos survey was performed by Environmental Design International (EDI) of Chicago, IL on August 23 through August 27, 2010. EDI representatives performed a visual inspection of each accessible building to identify suspect ACM. The ACM survey did not include areas that were not visible or accessible due to collapsed ceilings, structurally unsound buildings, other safety or security issues, or that were behind walls or otherwise inaccessible. Samples were collected from suspect ACM material throughout the site. The Site Layout for the Survey is shown in Figure 2-1. The Site Layout identified Buildings A through P for the survey. Some building groups had more than one building and buildings were labeled D1, D2, D3, etc. Specified asbestos-containing materials in selected interior and/or exterior areas of selected buildings, tanks, equipment and piping throughout the Site, as defined in Appendix A, will be removed prior to demolition of the buildings. A Summary of Findings, which shows description of the ACM materials, location, percent asbestos and quantities, is presented in Table 5-1. Additional details are located in Appendix A.

The following materials were determined to be ACM and are assumed ACM for all the buildings.

- Roofing materials
- Window paper covering, caulks and glazings, and door caulks.

These ACM building components were generally in poor condition and spread around the foot print of the building. Asbestos abatement design and planning must consider the

impact of non-intact ACM. These materials would be considered Category I non-friable asbestos.

Other ACM were building specific and included pipe insulation, floor tiles, mastics, and transite.

- Building C (north wall center) - pipe sealant
- Building H2 - air cell pipe insulation
- Building L1 - lab tops
- Building M (garage engineer office west) - air cell thermal system insulation
- Building M (break room) - transite ceiling
- Building N (office) - tan, brown, and grey floor tile and mastic
- Building N (office) - transite ceiling panels

These ACM building components were generally intact and in the interior of the building. The ACM is generally in poor condition. The ACMs are Category II friable and require abatement in containment with negative pressure prior to demolition.

ACM must be abated by an IDPH-licensed subcontractor using IPDH-licensed supervisors and workers, prior to building demolition. A site-specific asbestos abatement design should be prepared under the direction of an IDPH-licensed asbestos project designer.

TABLE 5-1
Summary of Findings
Work Plan for the Demolition of Buildings at the Former Eagle Zinc Facility

HAS/Sample No.	Material Description	Location	% Asbestos	Estimated Quantity
A-B-HA5-15	Window asphalt paper	Window coverings on Building B	8.7	Windows: 10'x5' 12 windows per side, estimate 50 windows.
A-B-HA6-18	Black mastic on metal roof	Roof of tin building at east end of Building B	1.2	2,500 square feet Tin Building estimated as 100' x 10' 1,000 square feet
A-C-HA7-20	Window glazing	Building C	2.8	Estimate 12 windows per side.
A-C-HA8-22	Window caulk	Building C	4.2	NA
A-C-HA16-47	Pipe sealant	North wall center, Building C	2.6	3 linear feet
A-D2-HA17-48	Roof sealant	Building D2	25	All roofs D2-D5
A-D1-HA22-65 & 67	Roof tar	Building D1	1.5 & 2.2	Roof on Building D1

TABLE 5-1
Summary of Findings
Work Plan for the Demolition of Buildings at the Former Eagle Zinc Facility

HAS/Sample No.	Material Description	Location	% Asbestos	Estimated Quantity
A-D1-HA25-76	Window glazing	Exterior windows on Building D1	3.6	Exterior window glazing on Building D1
A-D1-HA27-82	Roof	Roof at south end of Building D1 at walkway between production building and south end.	2.1	NA
A-H2-HA37-114	Pipe insulation – air cell	Building H2	85	10 linear feet
A-K-HA32-98	Roofing	Building K	1.2	NA
A-L1-HA40-124	Window caulk	Building L1	5.3	200 linear feet
A-L1-HA40-124	Window glazing	Building L1	1.4	NA
A-L1-HA44-136	Door caulk	Building L1	1.3	60 linear feet
A-L1-HA45-139	Lab tops	Building L1 interior	20	Lab tops: 10'x3' with 10 in the building. 300 square feet.
A-L1-HA48-152	Roof	Building L1	4.4	NA
A-M-HA66-210 & 214 & 217	Roof flashing, multiple layers, and caulking	Building M	1.1-1.3	NA
A-M-HA69-219	Thermal system insulation – air cell	Building M – garage engineer office west	55	20 linear feet
A-M-HA70-222	Transite	Building M – break room	25	7500 square feet (ceiling)
A-M-HA77-244	Door caulk interior	Building M – garage door north	1.7	NA
A-N-HA49-158, 161, 164, & 170	Floor tile and mastic (12"x12")	Building N –office tan, brown, and grey	2.1-10	1200 square feet
A-N-HA55-176	Transite ceiling panel	Building N – office	20	150 square feet
A-N-HA56-179	Window glazing	Building N – exterior	1.2	NA
A-O-HA59-188	Roof caulk	Building O	15	NA
A-O-HA63-201	Window caulk	Building O – exterior	1.4	NA
A-P1-HA81-257	Window caulk	Building P1	1.5	NA
A-P1-HA82-260	Door caulk	Building P1	3.1	NA
A-P1-HA85-269	Roof	Building P1	5.3	NA

Note: NA – Not Available based on the poor condition of the roofs and windows and the extent of the material that could be spread around the buildings.

Roof materials at the following buildings contain ACM: Building B, Building D (D1-D5), Building K, Building L1, Building M, Building O, and Building P. Roof samples from Building N did not have asbestos detections. Building E was not sampled, due to the collapsed nature of the building. Based on the roof sample results across the site, the roof materials should be assumed ACM Category I non-friable for the purpose of demolition planning.

5.1.1 Description of Work

All asbestos removal work will proceed in accordance with the following general procedures. Remove all specified accessible and inaccessible asbestos-containing materials as specified in the following subsections.

1. Prior to the start of asbestos removal work in negative pressure enclosures, all wall and window or other cavities will be completely sealed and protected from residual contamination;
2. All demolition debris will be removed from each work area and properly disposed of as general construction waste;
3. All demolition Work performed to access asbestos-containing materials to be removed will be performed by IDPH-licensed Asbestos Workers;
4. In the event asbestos-containing materials are likely to be disturbed during selective demolition Work, the Asbestos subcontractor will be required to perform the demolition Work inside of a negative pressure enclosure;
5. Wrap and cut removal methods will only be permitted with prior written consent from CH2M HILL's Construction Manager;
6. Should the subcontractor elect to torch-cut the bolts and pins holding the windows in place, compliance with OSHA 29 CFR 1926.62 will be strictly enforced; and
7. The subcontractor will comply with OSHA 29 CFR 1910.146 for confined space entry during all phases of work (e.g., pipe tunnel), when applicable.

5.1.2 Terminology and Definitions

The following terms and definitions apply to asbestos removal and handling activities.

Abatement - procedures to control fiber release from asbestos-containing materials, i.e., removal, encapsulation, or enclosure.

Air Lock - A system for permitting ingress or egress without permitting air movement between a contaminated area or an uncontaminated area, typically consisting of two contained doorways at least six (6 feet) or two (2) meters apart.

Air Monitoring - The process of measuring the fiber content of a specific volume of air in a stated period of time. Phase contrast microscopy in accordance with NIOSH Method No. 7400 and transmission electron microscopy in accordance with the Asbestos Hazard Emergency Response Act (AHERA) or NIOSH Method No. 7400 are the prescribed methods of sampling and analyses.

Air Sampling Technician - A person trained and experienced in air sampling techniques and schemes who performs air sampling under the direction of the third party oversight firm's project manager or C.I.H.

Amended Water - Water to which a surfactant has been added.

Third Party Oversight Project Manager/Consultant - An individual qualified by virtue of experience and education, designated as CH2M HILL's representative and responsible for supervising the Air Sampling Technician and helping to ensure compliance with these Specifications and all applicable Federal, State and local laws and regulations.

Asbestos Hazard Emergency Response Act (AHERA) - Congressional Act which requires local education agencies to identify friable and non-friable asbestos-containing building materials (ACBM) in public and private elementary and secondary schools; submit management plans to the Governor of their state; implement management plans in a timely manner; and maintain complete record keeping of any action involving the disturbance of Asbestos Containing Building Materials (ACBM).

Authorized Visitor - The Owner or his/her representatives, Air Sampling Technician, Third Party Oversight Project Manager, consultant, or a representative of any regulatory or other agency having jurisdiction over the project.

Barrier - Plastic sheeting and/or other materials used along with the floors, ceilings, and walls of a structure to form an isolated work environment that separates the contaminated work area from the uncontaminated area.

Bridging Encapsulant - A liquid designed to form a tough membrane over the surface of asbestos-containing materials.

Clean Room - An uncontaminated area or room that is part of the workers' decontamination enclosure system, with provisions for storage of workers' street clothes and protective equipment.

Competent Person - A subcontractor's employee (typically the foreman or superintendent) by virtue of his/her education and experience who is capable of operating an asbestos abatement project in accordance with these specifications and current EPA, OSHA and DOT regulations. Duties of the competent person are as defined in OSHA 29 CFR 1926.1101.

Consultant - A Certified Industrial Hygienist (C.I.H.), the designated Third Party Oversight Project Manager, or an Environmental Technician under the supervision of the C.I.H. or the Third Party Oversight Project Manager.

Contaminated - Containing or coated with asbestos.

Curtained Doorway - A device to allow ingress or egress from one room to another while minimizing air movement between the rooms, typically constructed by placing two overlapping sheets of plastic over an existing or temporarily formed doorway, securing the vertical edge of one sheet along one vertical side of the doorway, and securing the vertical edge of the other sheet along the opposite vertical side of the doorway. Two (2) curtained doorways spaced a minimum of six (6) feet or two (2) meters apart from an air lock.

Decontamination Enclosure System - A series of connected rooms, with curtained doorways between any two (2) adjacent rooms, for the decontamination of workers or of materials and equipment. A decontamination enclosure system always contains at least one (1) airlock.

Encapsulant - A liquid material that can be applied to asbestos-containing materials or cleaned substrates following the removal of asbestos-containing materials to control the possible release of residual asbestos fibers by creating a membrane over the surface.

Encapsulation - All herein specified procedures necessary to coat asbestos-containing materials with a penetrating or bridging encapsulant to control the possible release of asbestos fibers into the ambient air.

Equipment Decontamination Enclosure System - A decontamination enclosure system for materials and equipment, typically consisting of a designated area of the work area, a washroom, a holding area, and an uncontaminated area.

Equipment Room - A contaminated area or room that is part of the worker decontamination enclosure system, with provisions for storage of contaminated clothing and equipment.

Facility Component - Any pipe, duct, furnace, tank, fan, engines, or furnace at or in a facility, or any structural member of a facility.

Fixed Object - A piece of equipment or furniture in the work area that cannot be removed from the work area.

Glove bag Technique - A method with limited applications for removing small amounts of asbestos-containing material from HVAC ducts, piping runs, valves, joints, elbows, and other nonlinear surfaces in an uncontaminated (plasticized) work area. The glove bag assembly is a manufactured or fabricated device consisting of a glove bag (typically constructed of 6-mil transparent plastic); two (2) inward-projecting, long-sleeve, rubber gloves; one (1) inward-projecting water wand sleeve; an internal tool pouch; and an attached, labeled receptacle for asbestos waste. The glove bag is constructed and installed in such a manner that it surrounds the object or area to be decontaminated and contains all asbestos fibers released during the removal process. All workers who are permitted to use the glove bag technique, must be highly trained, experienced, and skilled in this method.

HEPA Filter - A highly-efficiency particulate air (absolute) filter capable of trapping and retaining 99.97 percent of asbestos fibers greater than 0.3 micrometer in length.

HEPA Vacuum - High-efficiency particulate air (absolute) filtered vacuuming equipment with a filter system capable of collecting and retaining asbestos fibers. Filters should be 99.97 percent efficient for retaining 0.3-micrometer particles or larger.

Holding Area - A chamber between the washroom and an uncontaminated area in the equipment decontamination enclosure system. The holding area comprises an air lock.

Major Renovation Area- Will mean that in areas of Major Renovation as determined by the Architect, the Contactor will attempt to remove all specified asbestos containing materials in the area including but not limited to demolition to gain access to hidden materials.

Minor Renovation Area - Will mean that in areas of Minor Renovation as determined by the Architect, the Contactor will only remove those asbestos containing materials that are readily accessible as listed in Appendix A.

Movable Object - A piece of equipment or furniture in the work area that can be removed from the work area.

Negative Pressure Ventilation System - A local exhaust system capable of maintaining a detectable pressure differential across containment barriers relative to adjacent unsealed areas.

NESHAP - The National Emission Standards for Hazardous Air Pollutants (40 CFR Part 61).

NIOSH - The National Institute for Occupational Safety and Health.

OSHA - Occupational Safety and Health Administration.

Penetrating Encapsulant - A liquid designed to saturate the material, thereby binding asbestos fibers to one another and to other substances in the material.

Plasticized - To cover floors, walls, etc., with plastic sheets as herein specified.

Removal - All herein specified procedures necessary to strip or clean up asbestos-containing materials from designated areas and to dispose of these materials at an acceptable disposal site.

Shower Room - A room between the clean room and the equipment room in the worker decontamination enclosure system, with hot, and cold or warm running water and suitably arranged for complete showering during decontamination. The shower room comprises an airlock between contaminated and clean areas.

Staging Area - Either the holding area or an area near the waste-transfer airlock where containerized asbestos waste has been placed prior to removal from the work area.

Stripping - All herein specified procedures necessary to remove asbestos-containing materials or asbestos-contaminated materials from their substrate or from any component of the facility.

Substrate - The underlying surface or material (piping, duct, Furnaces, tanks, chase floors, etc.) to which asbestos-containing material has been applied.

Surfactant - A chemical wetting agent added to water to improve penetration.

Thermal System Insulation - Insulation used to prevent heat loss from pipes, Furnaces, tanks, breeching, heat exchangers, etc.

Washroom - A room between the work area and the holding area in the equipment decontamination enclosure system. A washroom comprises an air lock.

Wet Cleaning - The process of eliminating asbestos contamination from building surfaces and objects by using cloths, mops, or other cleaning tools that have been dampened with water, and then disposing of these cleaning tools as asbestos-contaminated waste.

Work Area - Designated rooms, spaces, or areas of the project in which asbestos abatement actions are to be undertaken or which may be contaminated as a result of such abatement actions. A contained work area is one that has been sealed, plasticized, and equipped with a decontamination enclosure system. An isolated work area is a controlled-access work area that has been isolated by plastic curtains and in which the openings to the outside are sealed with plastic sheeting. An isolated work area is not an airtight containment area.

Worker Decontamination Enclosure System - A decontamination enclosure system for workers, typically consisting of a clean room, a shower room, and an equipment room.

5.1.3 Applicable Reference Documents

The current issue of each document will govern. If there is a conflict among requirements or with these Specifications, the more stringent requirement will apply.

5.1.3.1 Regulations

Compliance is required in strict accordance with applicable Federal, State and Local regulations.

Title 29, Code of Federal Regulations, Section 1910.1001, General Industry Standard for Asbestos.

Title 29, Code of Federal Regulations Section 1926.1101, Construction Industry Standard for Asbestos.

Title 29, Code of Federal Regulations Section 1910.134, General Industry Standard for Respiratory Protection.

Title 29, Code of Federal Regulations Section 1910.145, General Industry Standard for Confined Space Entry.

Title 29, Code of Federal Regulations Section 1926.59, Construction Industry Standard for Hazard Communication.

Title 29, Code of Federal Regulations Section 1926.62, Construction Industry Standard for Lead.

Title 29, Code of Federal Regulations Section 1910.1200, General Industry Standard for Hazard Communication.

Title 29, Section 1910.1000, Occupational Safety and Health Standards.

Title 29, Section 1910.120, Hazardous Waste Operations and Emergency Response.

Title 40, Code of Federal Regulations, Part 61, Subpart M.

Title 40, Code of Federal Regulations, Part 763, Asbestos.

Illinois Code of State Regulations 225 ILCS 207

Illinois Code of State Regulations 77 Ill. Admin Code 855

Title 49, Code of Federal Regulations, Hazardous Materials Transportation Regulations, U.S. Department of Transportation (DOT).

5.1.3.2 Guidance Documents

Asbestos-Containing Materials in School Buildings: A Guidance Document, Part 1. Office of Toxic Substances, U.S. EPA, Washington, D.C. 1979.

Asbestos-Containing Materials in School Buildings: A Guidance Document, Part 2. Office of Toxic Substances, U.S. EPA, Washington, D.C. 1979.

Guidance for Controlling Friable Asbestos-Containing Materials in Buildings: Washington, D.C. Office of Pesticides and Toxic Substances, U.S. EPA. 1983.

Guidance for Controlling Asbestos-Containing Materials in Buildings: Washington, D.C. Office of Pesticides and Toxic Substances, U.S. EPA. 1985.

Measuring Airborne Asbestos Following an Abatement Action: Washington, D. C., Office of Pesticides and Toxic Substances, U.S. EPA. 1985.

Asbestos Waste Management/Guidance: Generation, Transport, and Disposal: Washington, D.C., Office of Solid Waste, U.S. EPA. 1985.

5.1.3.3 Codes and Standards

ANSI - American National Standards Institute, ANSI Z 9.2, Fundamentals Governing the Design and Operation of Local Exhaust Systems.

NEC - National Electric Code. Any Work involving electrical equipment in a facility will be performed in strict accordance with the National Electric Code.

5.1.3.4 Notifications

CH2M HILL will supply written notification of proposed asbestos work not fewer than ten (10) business days prior to project commencement with copies to the USEPA's Representatives and regulatory agencies with jurisdiction over this project, including but not limited to, the following:

a. **IL Environmental Protection Agency**
P.O. Box 19276, Mail Code #41
Springfield, IL 62794-9276
Telephone: (217) 785-2011
Fax: (217) 782-1875

b. **IL Department of Public Health**
525W Jefferson Street
Springfield, IL 62761
Telephone: (217) 782-4977
Fax (217) 785-5897

5.1.4 Air Monitoring

5.1.4.1 General

The performance and execution of the work will be closely and continuously monitored by the Third Party Oversight Firm representatives. Full cooperation and support will be pro-

vided to the Third Party Oversight Project Manager and his/her representatives throughout the asbestos removal project.

Third Party Oversight Firm representatives will conduct personal and excursion air monitoring throughout the preparation, removal, and decontamination phases of this project as specified on Table 5-2: Asbestos Exposure Monitoring Schedule. Air monitoring will be conducted to ensure compliance with OSHA 29 CFR 1926.1101 and 29 CFR 1926.62 and to evaluate the adequacy of 1) the type of respiratory protection used by workers, 2) work practices and engineering controls and 3) containment barriers and decontamination procedures. The subcontractor will submit all samples to a State licensed and AIHA accredited laboratory for analysis.

The subcontractor or their representative is responsible for monitoring personnel as specified by OSHA 29 CFR 1926.1101 and 29 CFR 1926.62. The person or party responsible for the collection of air samples will be technically competent to perform the work and experienced in the prescribed procedures for collecting representative air samples.

5.1.4.2 Exposure Monitoring Schedule

At a **minimum**, the subcontractor's exposure monitoring schedule and sampling strategy for each distinct work area per facility will be as indicated on the following table:

TABLE 5-2
Asbestos Exposure Monitoring Schedule
Work Plan for the Demolition of Buildings at the Former Eagle Zinc Facility

Phase of Abatement Project	When to Sample	Type of Sample	Minimum # of Employees	Location
PREPARATION During Cleaning and preparation of work area	Each day of operation	Personal Excursion	1* 1*	Per work area Per work area
REMOVAL	Each day of operation	Personal Excursion	1* 1*	Per work area Per work area
DECONTAMINATION	Each day of operation	Personal Excursion	1* 1*	Per work area Per work area

At a minimum, one (1) out of four (4) workers involved in asbestos abatement activities will be monitored during all preparation, gross removal, decontamination and load-out phases of this project. Short-term excursion limit (STEL) samples will also be collected per activity and/or at the request of the Environmental Project Manager and his/her representatives.

5.1.4.3 Methods of Collection and Analysis

All exposure monitoring will be conducted in accordance with OSHA 29 CFR 1926.1101 and 29 CFR 1926.62. The recommended sampling period will be seven (7) to eight (8) hours, except on abbreviated work shifts. The flow rate for the sampling pump will be 0.5 to 2.5 liters/minute for asbestos. Sampling pumps will be checked daily by the Subcontractor at the beginning and end of each sample duration for proper flow-rate calibration.

All samples and their data sheets collected by the Subcontractor or his representative will be submitted to a State Licensed laboratory for PCM analysis after completion of daily

abatement activities. Sampling results will be reported to the Subcontractor and posted on-site within twenty-four (24) hours upon laboratory receipt.

The minimum number of employees/areas to monitor indicated on Table II will not be interpreted as the total number of samples to be collected and analyzed each day. Multiple personal or area samples may have to be collected during the seven (7) to eight (8) hour work-shift to accurately characterize a worker's exposure level. The number of samples collected will depend on the degree of fiber contamination in the work area and the effectiveness of work practices and engineering controls. Overloaded filter samples or filter holder cassettes containing loose particulate matter are unacceptable. All air samples will be properly collected and be representative of actual fiber concentrations in the work area.

5.1.5 Personnel Protection

Worker Instruction - Prior to commencement of this project, all workers will be instructed and will be made knowledgeable in the requirements of this specification.

Respiratory Equipment - All workers will be provided with personally issued and marked respiratory equipment approved by NIOSH and suitable for the asbestos exposure level in each work area according to OSHA 29 CFR 1926.1101. All employees will be **quantitatively** fit tested prior the beginning any abatement activities. At a minimum, all workers performing asbestos abatement activities will wear powered air-purifying respirators equipped with P-100 HEPA filter cartridges. Single use or reusable disposable respirators are not acceptable and will not be used on this project. Sufficient filter cartridges or pads for replacement will be provided as required by the worker, applicable regulations, or as bound into this Specification. If a prevalent airborne fiber concentration inside any asbestos work area exceeds 1.0 f/cc over the TWA8, the Subcontractor will stop work and implement the following:

8. Use Full-Face Type "C" air supplied respirators in positive pressure demand or constant flow. All air hose connections will be equipped with a HEPA filtered disconnect system in the event of compressor failure or the exhaustion of air in the reserve tanks. At the minimum, Type "C" air supply will provide the following:

- A continuous sufficient supply of air.
- Supplied air that meets Grade D requirements as specified by Compressed Gas Association.
- An adequate volume of air to allow for escape from the work area.
- Worker comfort and safety.
- NIOSH approved respirators and supply hoses.

Compressed air systems will be designed to provide air volumes and pressures to accommodate respirator manufacturer's specifications. Only breathing air compressors will be used and may be either gasoline or electric powered; however, electric powered compressors are preferred. The compressor will also be equipped with in-line air purifying absorbent beds and filters that remove moisture, odors, oils, hydrocarbons, heat, and carbon monoxide. The compressor will be equipped with a carbon monoxide monitor and will be

checked daily as specified by the manufacturer. The carbon monoxide monitor should be equipped with a visible and audible alarm to alert the operator of a high carbon monoxide level in the supply air. The compressed air system will also be equipped with a reserve tank or reservoir. The volume of air in the reserve tank should provide for adequate escape time for employees in the work area. All Type "C" air line respiratory equipment will be approved as an entire unit by NIOSH. This includes respirator face piece, regulator, and airline. Any alteration of the respirator or subcomponents is strictly forbidden and voids any approval by NIOSH.

A. Engineering controls to reduce and maintain airborne asbestos fibers to below 1.0 f/cc.

Protective Clothing - Per OSHA 29 CFR 1926.1101 and 29 CFR 1926.62, workers will be provided with sufficient sets of protective full-body clothing. Such clothing will consist of full-body coveralls, rubber gloves, face shields, vented goggles and headgear. Eye protection, full body harness and lanyard, steel toe safety shoes and hard hats will be provided as required by applicable safety regulations. Non-disposable protective clothing and footwear will be left in the contaminated equipment room until the end of the abatement Work, at which time such items will be properly disposed. Disposable protective clothing, headgear, and footwear will be provided as needed and/or requested by the Environmental Project Manager.

Visitor Protection - Authorized visitors will be provided with suitable respirators with new filters or cartridges and protective clothing, headgear, eye protection, safety belts, and footwear, as described below, whenever they are required to enter the work area, to a maximum of three (3) sets per day.

Protection Procedures - The Subcontractor will provide and prominently post the decontamination and work practices to be followed by workers in the clean/change area as described herein.

Each worker and authorized visitor will, prior to entering the work area: remove street clothes in the clean change room and don the required respiratory equipment and clean protective clothing before entering the decontamination chamber entrance to the work area; except workers that intend to re-wear contaminated protective clothing stored in the equipment room will enter the equipment room wearing only respirators.

Each worker and authorized visitor will, each time he/she leaves the work area: remove gross contamination from clothing before leaving the work area; proceed to the equipment room and remove all clothing except respirators; still wearing the respirator, proceed naked to the showers; clean the outside of the respirator with soap and water while showering; remove the respirator; thoroughly shampoo and wash himself/herself; if the filters require replacement, remove filters, wet them, and dispose of them in the container provided for the purpose; and wash and rinse the inside of the respirator face piece.

Following showering and drying off, each worker and authorized visitor will proceed directly to the clean change room and dress in clean clothes at the end of each day's work, or before eating or drinking. Before re-entering the work area from the clean change room, each worker and authorized visitor will put on a clean respirator with filters and will dress in clean protective clothing; except workers that intend to re-wear contaminated protective

clothing stored in the equipment room will enter the equipment room wearing only respirators.

Contaminated work footwear will be stored in the equipment room when not in use in the work area. After the asbestos and lead abatement process is completed, footwear will be disposed of as contaminated waste or cleaned thoroughly inside and out with soap and water before being removed from the work area. Contaminated protective clothing will be stored in the equipment room for reuse or placed in receptacles for disposal with other asbestos-contaminated materials.

Workers removing waste containers from the equipment decontamination enclosure will enter the holding area from outside wearing a respirator and dressed in clean coveralls. Workers will not use this system as a means to leave or enter the work area.

Workers will be fully protected with respirators and protective clothing immediately prior to the first disturbance of asbestos or lead-containing or contaminated material, and until final cleanup is completed and approved.

5.1.6 Equipment Removal Procedures

External surfaces of contaminated containers and equipment will be thoroughly cleaned by wet mopping, or using a HEPA-filtered vacuum before moving such items into the decontamination enclosure system washroom for final cleaning and removal to uncontaminated areas. Personnel will not leave work areas through the equipment decontamination enclosure system.

5.1.7 Emergency Precautions

CH2M HILL will establish (and clearly mark) emergency and fire exits from the work area. Emergency procedures will be in written form and prominently posted in the clean change room immediately outside the worker decontamination enclosure system.

Employees will be trained in evacuation procedures in the event of work area emergencies.

For non-life-threatening situations, employees injured or otherwise incapacitated will decontaminate themselves following normal procedures with assistance from fellow workers, if necessary, before exiting the work area to obtain proper medical treatment.

For life-threatening injury, worker decontamination will take least priority after measures to stabilize the injured worker, remove him from the work area, and secure proper medical treatment.

Before Subcontractor starts abatement activities, CH2M HILL will inform the local police and fire departments of the danger of entering a contaminated work area. CH2M HILL will make every effort to help these agencies form plans of action should their personnel need to enter contaminated work areas, and to assist during emergencies.

Telephone numbers of all emergency response personnel will be prominently posted in the clean/change room outside the worker decontamination enclosure system along with location of the nearest telephone.

5.1.8 Site Security

The subcontractor will post warning signs at designated entrances to each asbestos and lead work area as required by OSHA 29 CFR 1926.1101 and 29 CFR 1926.62.

Entry into the work area by unauthorized individuals will be reported immediately to the CH2M HILL's representative by the subcontractor. The subcontractor will maintain a sign-in sheet for all visitors to each abatement site.

The subcontractor will have control of site security at all times during abatement activities in order to protect work efforts and equipment.

5.1.9 Materials and Equipment

5.1.9.1 Materials

5.1.9.1.1 Material Delivery

All materials will be delivered in the original packages, containers, or bundles bearing the name of the manufacturer and the brand name. MSDS sheets will be required for all materials brought on-site by the subcontractor.

All materials subject to damage will be stored off the ground, away from wet or damp surfaces, and under sufficient cover to prevent damage or contamination.

Damaged or deteriorating materials will not be used and will be removed from the premises. Material that becomes contaminated with asbestos will be disposed of in accordance with these Specifications.

5.1.9.1.2 Plastic Sheeting

All plastic sheeting will be sized in appropriate lengths and widths to minimize the frequency of joints.

Plastic sheeting used for worker decontamination enclosure systems will be opaque or black in color.

5.1.9.1.3 Tape

Must be capable of sealing joints of adjacent plastic sheets, capable of attaching plastic sheets to finished or unfinished surfaces of dissimilar materials, and capable of adhering under dry and wet conditions, including use of amended water. **NOTE:** Paper type masking tape will not be allowed on this project.

5.1.9.1.4 Surfactant

A surfactant will consist of fifty percent (50%) polyoxyethylene ether and fifty percent (50%) percent polyoxyethylene ester, or equivalent, and will be mixed with water to provide a concentration of one (1) ounce surfactant to five (5) gallons of water, or according to manufacturer's specifications.

5.1.9.1.5 Impermeable Containers

Impermeable containers must be suitable for receiving and retaining any asbestos-containing or contaminated materials. Metal or fiber drums with tight-fitting lids are required for all metal-containing wastes (i.e., metal lathe, wire, metal jackets, etc.). Plastic bags, 6-mil thick, are acceptable for friable asbestos and fiberglass insulation without metal

components capable of penetrating the bags. The containers will be labeled in accordance with OSHA 29 CFR 1926.1101, EPA 49 CFR Parts 171 and 172 and EPA 40 CFR Part 61, Subpart M. Containers will be both air and watertight.

5.1.9.1.6 Encapsulants

- Encapsulating sealants will be bridging or penetrating sealants compatible with substrates requiring application.
- Encapsulants selected for use by the subcontractor will be one demonstrating effective performance under the tests conducted by Battelle Laboratories.
- The encapsulant will not add any toxic substances and will not break down under direct flame impingement to release any toxic gases or an undue amount of smoke.
- The encapsulant will be capable of adhering to the substrate surface.
- The encapsulant will be applied with minimum effort and skill.
- The encapsulant will have impact resistance, flexibility, and resistance to penetration to withstand physical contact.
- The encapsulant will be water insoluble when cured.
- The encapsulant will be nontoxic and free of toxic fumes during application.
- The encapsulant will have sufficient aging characteristics to withstand normal atmospheric changes for a minimum of six (6) years and still have sufficient surface integrity to allow recoating.

5.1.9.1.7 Warning Labels and Signs

As required by OSHA 29 CFR 1926.1101.

5.1.9.1.8 Glove bags

Glove bags will be made of 6-mil thick plastic and will be seamless at the bottom as specified in OSHA 29 CFR 1926.1101.

5.1.9.1.9 Plexiglass

The subcontractor will install plexiglass partitions in doorways or openings adjacent to an asbestos abatement work area, when feasible, to enable asbestos abatement activities to be observed by the Owner's representatives and/or other visitors without entering the work area. The plexiglass partitions will be a minimum of 2' x 2'. CH2M HILL will determine the number of plexiglass partitions used.

5.1.9.1.10 Other Materials

The subcontractor will provide all other materials, such as lumber, nails and hardware that may be required to construct and dismantle the decontamination area and the barriers that isolate the work area.

5.1.9.2 Equipment

The subcontractor will provide equipment suitable for asbestos abatement projects. All abatement equipment (i.e., scrapers, AFD's, scaffolding, etc.) delivered on-site must be free of asbestos contamination. Should the Owner or Third Party Oversight Representative

suspect asbestos contamination on any piece of equipment, the subcontractor will immediately wrap the equipment in two (2) layers of 6-mil poly prior to proceeding to the decontamination chamber. In the event of discrepancies concerning the content of the contamination (i.e., asbestos vs. non-asbestos), the subcontractor will bear the full expense of surface tape and or wipe sampling performed by CH2M HILL and/or Third Party Oversight Representative.

5.1.9.2.1 Air Movement Equipment

High efficiency particulate air (absolute) filtration equipment in compliance with ANSI Z 9.2, Local Exhaust Ventilation. No air movement system or air equipment will discharge asbestos fibers outside the work area into the building.

A measurable air pressure differential will be established in the work area by means of mechanical exhaust equipment (air filtration devices) in order to keep airborne fibers confined to the work area, decrease humidity and temperature, reduce fiber levels in the work area, and achieve acceptable final air monitoring results. The mechanical equipment will exhaust through a HEPA filter and supported, semi-rigid discharge duct to the outside of the building. The equipment will remain in operation twenty-four (24) hours a day until decontamination of the work area and final air sampling and analysis is completed.

5.1.9.2.2 Airless Sprayer

An airless sprayer will be used for the application of amended water and encapsulant.

5.1.9.2.3 Scaffolding and Ladders

Scaffolding and ladders will be used as required to accomplish the work specified and will meet or exceed all applicable safety regulations.

5.1.9.2.4 Vacuums

Vacuums utilized to clean up asbestos-containing materials or lead dust in all work areas will be equipped with HEPA filters.

5.1.9.2.5 Miscellaneous Tools and Equipment

The subcontractor will provide all other tools suitable for the stripping, removal, encapsulation and replacement of thermal insulating materials. These tools include, but are not limited to, scrapers, wire cutters, brushes, sprayers, sponges, utility knives, flexible wire saws, shovels and brooms.

5.1.9.2.6 Digital Pressure Differential Meter

The Subcontractor will install a digital pressure differential gauge with a strip chart recorder to continuously measure the pressure differential between the clean area and work area. A pressure differential meter will be required for each work area.

5.1.9.2.7 Use of Owner's Tools and Equipment

Tools or equipment of the Owner will not be used by the Subcontractor, unless permission in writing is granted by the Owner's representatives.

5.1.10 Execution

5.1.10.1 Sequence of Execution

5.1.10.1.1 Work Area Sequence

The sequence of execution for asbestos abatement inside contained work areas will occur in the following order:

1. Prepare the work area as described below.
2. Strip and remove asbestos-containing or contaminated materials in the specified below.
3. Remove and discard asbestos-containing waste generated from abatement activities.
4. Removal and disposal of all asbestos-containing materials will be performed concurrently with stripping.
5. Decontaminate and clean work area as described below.
6. Encapsulate building surfaces with an approved sealant as specified below.
7. Establish final clearance criteria for each work area as indicated below.
8. Reestablish building systems in proper working order or as originally found.

5.1.10.1.2 Work Area Sequence

The sequence of execution for asbestos abatement inside regulated work areas may occur in the following order:

1. Prepare all work areas as indicated below.
2. Strip and remove asbestos-containing materials in designated areas per instructions below.
3. Remove and discard asbestos-containing waste generated from abatement activities. Removal and disposal of asbestos-containing materials will be performed concurrently with the stripping.
4. Decontaminate and clean work area per instructions below.
5. Encapsulate building surfaces with an approved sealant.
6. Establish final clearance criteria for each work area as indicated below.

5.1.10.2 Preparation

5.1.10.2.1 Work Area Preparation

Prepare each work area:

1. Shut down and lock-out electric power to all work areas where applicable. Provide temporary power and lighting and ensure safe installation of temporary power services and equipment, as specified in applicable electrical code requirements when adequate lighting is not available. At a minimum, one 200 watt halogen light per every 500 square feet (ft^2) will be provided in common space work areas (i.e., class rooms, hallways, etc). Provide ground-fault interrupt circuits as a power source for electrical equipment.

2. Shut down and isolate heating, cooling, and ventilating air systems such as, but not limited to, fans, air handlers, and unit ventilators to prevent contamination of the units and fiber dispersion to other areas of the structure. Seal all electrical components and equipment tightly to prevent moisture or water damage. During the work, vents within the work area will be sealed with tape and 6-mil plastic sheeting.

3. The subcontractor will be responsible for the removal and decontamination of any movable equipment that may be contaminated.

4. Install HEPA filtered air movement into the work area and vent exhaust ducts through openings to the outside of the facility. Seal openings around exhaust ducts. Exhaust from the negative air movement equipment will not be allowed to be released within the facility. All HEPA filtered air movement equipment will be maintained as indicated herein.

5. Introduce scaffolding, ladders, and other large equipment into the work area and install the worker and equipment decontamination enclosure systems. Once the decontamination enclosure systems are in place, they will be used as specified for the entrance and exit of all personnel and equipment.

6. Seal off all openings (including but not limited to corridors, doorways, windows, skylight, ducts, grilles, diffusers, and any other penetrations of the work area) with plywood and/or 6-mil plastic sheeting sealed with tape. Doorways and corridors that will not be used for passage during work will be sealed with barriers.

7. Pre-clean contaminated movable objects (such as desks and chairs, etc.) within the work area using HEPA filtered vacuums and wet cleaning methods. Remove the decontaminated furniture from the work area and store in an uncontaminated area of the facility.

8. Pre-clean fixed objects within the proposed work area (such as but not limited to shelving, bookcases, hot-water heaters, pumps, radiators, unit ventilators, fans, ductwork, and motors) using HEPA filtered vacuums and/or wet cleaning methods as appropriate, and enclose with 4-mil (minimum) plastic sheeting sealed with tape.

9. Remove and wet wipe and/or HEPA vacuum ceiling mounted objects (such as lights, speakers, and other items not previously sealed off) that interfere with asbestos abatement activities. Any item remaining in the work area will be enclosed with 6-mil plastic sheeting sealed with tape.

10. For all contained work areas, excluding floor tile and mastic removal only work areas, cover all floors with a minimum of two (2) layers of 6-mil plastic sheeting sealed with tape. Cover floors with plastic extending at least twelve (12) inches up on all walls. Cover all walls with a minimum of one (1) layer of 4-mil plastic sheeting and overlap floors sheeting by at least twenty-four (24) inches. Install a 6-mil poly drop cloth twenty (20) feet out from each side of the work area undergoing asbestos abatement in all work areas. In addition, drop cloths with a minimum thickness of 6-mil will be installed in all staging areas and commonly traveled areas. Seal all joints with tape and/or spray adhesive. The Owner will approve the location and methods of attachment of plastic sheeting to finished surfaces in advance.

5.1.10.2.2 Decontamination Enclosure Systems

General - Build suitable framing and/or use existing rooms connected with framed-in tunnels, if necessary, and line with plastic sealed with tape at all lap joints for all enclosures and decontamination enclosure systems rooms. Either existing rooms outside of the work area or specially framed and sealed temporary areas will be used for the decontamination enclosure system. Convenience and proximity to the work area will be the determining factors. In all cases, access between contaminated and uncontaminated rooms or areas will be through an airlock, as described above.

Worker Decontamination Enclosure System - Construct a worker decontamination enclosure system contiguous to the work area that consists of three (3) totally enclosed chambers as follows:

- An equipment room with two (2) curtained doorways: one to the work area and one to the shower room.
- A shower room with two (2) curtained doorways; one (1) to the equipment room and one to the clean room. One (1) shower will be provided for every ten (10) workers or fraction thereof as required by OSHA 29 CFR 1910.141(d)(3) To ensure against potential leakage, a metal pan with a minimum three (3) inch lip will be installed underneath each shower facility. Ensure soap is available at all times in the shower room. The shower wastewater will be drained, collected, and filtered through a system with at least five (5) to ten (10) micron particle size collection capability.
- NOTE: A system containing a series of several filters with progressively smaller pore sizes is recommended to avoid rapid clogging of filtration system by large particles. All expended filters will be discarded as contaminated waste. Filtered water may be discharged to a sanitary sewer drain.
- A clean room with one (1) curtained doorway into the shower and one (1) entrance or exit to uncontaminated areas of the building. The clean room will have sufficient space for storage of workers' street clothes, towels, and other uncontaminated items.
- Use black or opaque plastic for the walls of the worker decontamination enclosure system to ensure the privacy of the workers.

Equipment Decontamination Enclosure System - The purpose of this area is to provide a means of decontaminating drums, scaffolding, material containers, vacuum and spray equipment, and other tools and equipment for which the worker decontamination system is not suitable. The Subcontractor will provide or construct an equipment decontamination enclosure system contiguous to the work area that consists of two (2) totally enclosed chambers as follows:

- A washroom, constituting an airlock, with a curtained doorway to a designated area of the work area and a curtained doorway to the holding area. This area will be the same as the equipment room in the worker decontamination enclosure system. The washroom wastewater will be drained, collected, and filtered through a system with at least five (5) to ten (10) micron particle size collection capability. **NOTE:** A system containing a series of several filters with progressively smaller pore sizes is recommended to avoid rapid clogging of filtration system by large particles. All expended

filters will be discarded as contaminated waste. Filtered water may be discharged to a sanitary or storm sewer drain.

- A holding area, constituting an airlock, with a curtained doorway to an uncontaminated area. This area will be the same area as the shower room in the worker decontamination enclosure system.
- The equipment decontamination area will be located so as to facilitate movement of asbestos waste to a loading area.

Separation of Work Areas - The Subcontractor will use air and watertight barriers to separate the parts of the facility required to remain free of contamination from the parts of the facility that will undergo asbestos abatement work. The barriers will be constructed as follows:

- Build suitable wood or metal frame.
- Cover the inside and outside of the frame with plywood and/or 6-mil plastic sheeting sealed with tape as specified.
- Where applicable, plexiglass partitions will be installed to enable asbestos hazard abatement activities to be observed in rooms adjacent to the work area.

Maintenance of Enclosure Systems:

- Ensure that barriers and plastic linings are effectively sealed and taped. Repair damaged barriers and remedy defects immediately upon discovery.
- Visually inspect enclosures continuously on a daily basis until final clearance has been achieved.
- Use smoke methods to determine the effectiveness of barriers daily per OSHA 29 CFR 1926.1101.

Asbestos abatement work will not commence until:

- Arrangements have been made and approval granted for disposal of waste at an acceptable site.
- Work areas, decontamination enclosure systems and parts of the facility required to remain uncontaminated are effectively segregated. The Subcontractor will inspect the work area enclosure system to ensure that it is air and watertight. Any deficiencies noted by the Subcontractor will be immediately corrected.
- Tools, equipment, and material waste receptors are on hand.

5.1.10.2.3 Air Filtration System

The Subcontractor will not deliver negative air filtration devices on the job-site with used or previously installed HEPA filters. New HEPA filters will be installed, according to the manufacturer's instructions, once delivered on-site. Once the project has been successfully completed with all final clearance criteria being met, all negative air filtration devices will have the HEPA filters removed and disposed of as asbestos-containing waste.

A pressure differential for contained work areas will be required per OSHA 29 CFR 1926.1101. At a minimum, the air filtration devices will provide for a complete air change every fifteen (15) minutes. Calculations used to determine the number of units required will be based on current performance and not rated capacity. **NOTE*:** If actual cfm's are not measured, seventy percent (70%) of the rated capacity will be used.

The following formula will be used for estimating the number of air filtration devices:

$$\text{Number of units needed} = \frac{\text{ft}^2 \text{ of work area x height of ceiling in ft.}}{\text{15 minutes x cfm* capacity of units}}$$

The pressure differential will be maintained so that the movement of tools, equipment, employees and waste containers through the decontamination enclosure systems do not result in air flow out of the work area.

Air circulation throughout the work area will be maintained by the air filtration devices to reduce dead air spaces and provide appropriate ventilation inside the work area. The Subcontractor will install a pressure differential meter with a strip or dial chart recorder. The meter and strip and/or dial chart recorder must show a measurable pressure differential between the work area and adjacent areas at a minimum of -0.02 inches of water. If the Subcontractor cannot maintain an adequate pressure differentiate inside the work area all Work will be stopped until the problem is corrected.

The Subcontractor or his/her representative will collect air samples outdoors where the air filtration devices discharge air. If the air sample analyses indicate that the air filtration devices are discharging fiber concentrations outside of the building in concentrations higher than typical outdoor ambient concentrations, the Subcontractor will immediately repair or replace the defective unit or the defective components to eliminate the discharge of fibers from the work area.

Air filtration devices will not discharge air outside the building near pedestrian walkways.

5.1.11 Suggested Asbestos Removal Procedures

5.1.11.1 Work Area Preparation

Prepare each work area as specified as described above.

5.1.11.2 Pipe Insulation Removal

This paragraph applies to thermal pipe insulation removed in contained work areas. The asbestos material around pipes will be removed in small sections. The cloth jacketing on the pipe insulation will be cut along the top seam to allow the wetting of the insulation with amended water. At the top seam, the insulation will be sprayed thoroughly with amended water prepared in accordance with manufacturer's specifications. The sections will be parted and the inside of the insulation thoroughly wetted. The cloth cover will be cut around the circumference of the section being removed and lowered carefully and not allowed to drop to the floor. The material will be wetted again before placing inside appropriate sealable containers. All pipe surfaces (including elbows, support rods, and valves) will be cleaned thoroughly with damp sponges, scrubbing pads, or cloths until they are visibly clean. The next section of thermal system insulation will be removed following

the same procedures. Containers that become full will be sealed and readied for transportation to an approved disposal site.

5.1.11.2.1 Pipe Insulation/Glovebag Technique

Prior to hanging any glove bags, all loose and friable material adjacent to the glovebag area will be wrapped and sealed in two (2) layers of 6-mil poly. After the required hand tools and equipment are assembled, a polyethylene glovebag will be installed, according to the manufacturer's instructions and 29 CFR 1926.1101, on a small section of asbestos-containing thermal system insulation to be removed. If negative pressure enclosure has not been established, the inner portion of the glovebag will then be supported to allow negative air pressure, provided by a portable HEPA filtered vacuum, to be established inside the bag. All necessary tools and equipment will be inserted into the bag before sealing the bag to the pipe. The exterior cover on the pipe insulation will be cut and opened to allow thorough wetting of the insulation with amended water by inserting the nozzle of the portable sprayer into the bag. After the insulation has been opened and thoroughly wetted, the exterior cover will be cut around the circumference of the section being removed. After removal of the insulation material, all material will be contained in the lower compartment of the bag and thoroughly saturated. The inside of the glovebag and pipe will be washed down with amended water, wet wiped and encapsulated. All tools will be washed thoroughly before they are removed through the gloves of the bag. The glovebag will then be evacuated with the portable HEPA filtered vacuum. While the bag is collapsed, it will be squeezed below the tool pouch and twisted. The bag will be sealed with tape or locking ties to separate the waste from the removal compartment. The glovebag will be cut along the top and sides and removed from the pipe. The glovebag will then be placed in the appropriate disposal container. **NOTES:** 1) At least two (2) persons will perform all glovebag work per OSHA 29 CFR 1926.1101, and 2) Glovebags will not be used on surfaces with temperature exceeding 150 ^{0}F.

5.1.11.2.2 Pipe Insulation/Wrap and Cut

The Subcontractor will verify all piping will not be reused by the Owner and has been deactivated prior to cutting. Torch cutting or burning will be strictly prohibited during any phase of this project. All asbestos-containing and contaminated pipe insulation will be thoroughly encapsulated and wrapped in a minimum of two (2) layers of 6-mil plastic sheeting prior to glove bag and cutting procedures. Using the specified glovebag removal method, remove two small sections of the insulation at the end of each length of pipe to be removed. Upon removal completion, thoroughly clean and encapsulate the exposed pipe and seal the exposed insulated ends with 6-mil plastic sheeting prior to cutting the pipe. Cut the pipe and carefully lower the section to the ground. Place the proper labels on each wrapped section of pipe for disposal. **NOTE:** Sawing through the pipe and insulation is prohibited.

5.1.11.3 Floor Tile and/or Mastic

After preparation of the work area is completed as specified, saturate the floor tile with amended water using equipment capable of providing a mist application. Once the floor tile has been thoroughly saturated, apply pressure to the underside of the tile with care taken to prevent unnecessary breakage. The floor tile will remain wetted until placed into covered disposal containers. When specified, the Subcontractor will use a low odor solvent to dissolve floor tile mastic with a flashpoint of one hundred forty degrees (150^{0}F). If the

solvent used requires extra ventilation, protective equipment and/or respiratory protection, according to the solvents MSDS, the Subcontractor will furnish the necessary ventilation devices (i.e., additional air filtration devices), personal protective equipment and/or NIOSH approved cartridges. All residue/debris from using the solvent to dissolve the mastic will be HEPA vacuumed and wet cleaned to remove all visible traces of mastic inside the work area. **NOTE:** the Owner and Environmental Project Manager will approve the use of alternate removal methods in advance.

5.1.11.4 Transite Panels

Wet the transite with amended water before and during removal. Once the transite have been thoroughly wetted, carefully remove all transite and lower to the floor/ground, avoiding breakage. Once removed, wrap in two (2) layers of 6-mil plastic sheeting. Place the proper labels (DOT, EPA, NESHAPS) on each wrapped section of transite for disposal. All surfaces will be thoroughly cleaned. HEPA vacuum and wet clean the entire exposed surfaces as necessary to remove all visible traces of the transite.

5.1.11.5 Breeching, Boiler and Tank Insulation

Carefully remove all metal plates, jackets or other covering to expose the insulation, when applicable. Once exposed, the asbestos material around mechanical equipment will be removed in small sections. The cloth jacketing on the thermal system insulation will be cut to allow the wetting of the insulation with amended water. At the top, the insulation will be sprayed thoroughly with amended water prepared in accordance with manufacturer's specifications. The sections will be parted and the inside of the insulation thoroughly wetted. Metal rods and/or wire will be carefully cut and placed into appropriate disposal containers. The insulation material will be lowered carefully and not allowed to drop to the floor. The material will be wetted again before placing inside appropriate sealable containers. All mechanical surfaces (including elbows, support rods, and valves) will be cleaned thoroughly with damp sponges, cloths, scrub pads, etc. until they are visibly clean.

5.1.11.6 Window Putty Glazing Compound

Prior to abatement, all glazing compound should be sufficiently wetted with amended water and all loose material removed using hand scrapers to reduce fiber release and contamination of the surrounding interior and exterior surfaces. The entire window will be removed intact, lowered to the ground and immediately wrapped in two layers of 6-mil plastic sheeting. The window frame will remain inside of the opening unless glazing compound has been applied. Care will be taken to prevent damage to interior and exterior surfaces during window removal. Barricades will be set-up and a watchman assigned to each area undergoing window removal to ensure the safety of pedestrian traffic and building occupants. Drop cloths will be placed under and over any object within twenty (20) feet of the windows being removed. Materials should be removed with as little breakage as possible using razor scrapers, putty knives, painters tools, etc. to reduce potential fiber release. All wrapped windows will be placed into the dumpster prior to the end of abatement activities daily. See Section 6.3 for special considerations for windows in structurally unsound Building E.

5.1.11.7 Asbestos-Containing Roofing Materials

For this project roofing materials will include rolled roofing, built-up roofing, roofing felts, roof mastics, and tar. Prior to abatement, all material that is to be removed will be sufficiently wetted with amended water to reduce fiber release. Materials should be abated with as little sawing and breakage as possible. Roofing will be taken up in sections and bagged, wrapped or bundled immediately. All roofing material(s) must be lowered to the ground and placed into a lined dumpster prior to the end of daily abatement activities.

5.1.11.8 Ceiling Tile & Mastic

Lightly mist the exposed finished surfaces of the specified ceiling panels with amended water. Once the initial application of amended water has been applied to the panels, select one or more ceiling panels around the perimeter to gain access in the plenum space above the suspended ceiling system. Once access has been gained, thoroughly saturate all asbestos ceiling panels and handle carefully to prevent breakage. Progressively continue to wet the remaining asbestos ceiling panels with amended water concurrently with removal and place them in appropriate waste disposal containers until all ceiling panels have been completely removed. Once the panels have been completely removed, continue to remove all adhesive/glue, grid-work, support rods and rails, hangers, etc. associated with the suspended ceiling support system. After removal of the asbestos-contaminated ceiling system, all surfaces not contained in polyethylene (upper substrates) will be wire-brushed and/or wet-sponged or cleaned by an equivalent method to remove all visible material. All disconnections to electrical components will be in accordance with all applicable codes and standards. All existing ceiling fixture wiring will be secured using wire ties or equivalent methods of attachment in a workman like manner to prevent potential damage or hazards.

5.1.11.9 General Decontamination

This section will apply to decontamination work to be performed under regulated work areas, not total containment work areas. Small deposits of previously damaged asbestos-containing material found on floors, fixtures, boxes, etc. will be removed using HEPA filtered vacuum equipment and wet wipe methods in a ten square foot ($10ft^2$) area surrounding the material, or as necessary to remove all visible asbestos-containing material. The regulated area will be visibly clean and free of all asbestos debris before proceeding to the next work area.

5.1.12 Removal and Disposal of Regulated Asbestos Containing Materials

Disposal containers will be filled to a level that workers can handle safely and with ease. As disposal containers are filled, they will be sealed and moved to the staging area for decontamination.

In conventional total containment asbestos removal practices, clean external surfaces of containers thoroughly by wet sponging in the designated areas that is part of the equipment decontamination enclosure system. Place decontaminated, sealed plastic bags containing asbestos material into a second clean bag; twist the bag opening tightly, bend the twisted end downward, and seal with tape. Double-bagged and sealed materials will be placed into lined roll-offs with appropriate labeling. Move all roll-offs to the holding area to await disposal at an approved landfill. If glove bag techniques are used, place the glove bag into a

clean bag; twist the bag opening tightly, bend the twisted end downward, seal with tape, and then move it to the holding area. Place caution labels on containers in accordance with OSHA 29CFR 1926.1101. Identification labels will also be placed on the outside of the first bag in accordance with EPA 40 CFR Part 61, Subpart A and OSHA 29 CFR 1926.1101. Ensure that workers, wearing the proper PPE, who have entered from uncontaminated areas, remove containers from the holding area. Ensure that workers do not enter from uncontaminated areas into the washroom of the work area; ensure that contaminated workers do not exit the work area through the equipment decontamination enclosure system.

To prevent exceeding available storage capacity on-site as the work progresses, the sealed and labeled containers of asbestos waste will be removed and disposed of at a permitted disposal facility in accordance with regulatory requirements. Disposal documentation regarding ACM disposal will be provided to CH2M HILL.

After the waste containers are decontaminated, subcontractor will make arrangements for a hauler or truck driver from the waste disposal site to transport the asbestos waste and contaminated material to the disposal site.

All asbestos-containing waste inside the work area will be removed and items decontaminated before any cleanup work is started and before the isolation structures are dismantled.

The Subcontractor will ensure that all employees handling and discarding asbestos waste wear approved respiratory equipment and protective clothing.

In certain instances, plastic bags or fiber and metal drums may not be adequate or suitable to handle certain asbestos-containing materials. As an alternative, the Subcontractor may remove asbestos-containing material that is bulky or cumbersome in two (2) layers of 6-mil plastic sheeting sealed tightly at all joints with tape and/or spray adhesive.

5.1.13 Cleanup and Decontamination of the Work Area

5.1.13.1 Asbestos Cleanup

Visible accumulations of asbestos material and debris will be removed. All surfaces will be wet-cleaned within the work area.

Plastic sheets will be removed from walls and floors only. The windows, doors, HVAC vents, and other equipment and penetrations will remain sealed, and any HEPA air filtration systems and decontamination enclosure systems will remain in service.

All surfaces in the work area and any other contaminated areas will be cleaned with water and/or with HEPA filtered vacuum equipment. After cleaning the work area, twelve (12) to twenty-four (24) hours will be allowed to pass to allow dust to settle. These surfaces will be wet-cleaned or cleaned with HEPA filtered vacuum equipment all a second time. After completion of the second cleaning operation, the entire work area will be inspected to ensure that it is free of visible asbestos dust and debris.

Sealed containers and all equipment used in the work area will be included in the cleanup and will be removed from work areas, via the equipment decontamination enclosure system, at an appropriate time in the cleaning sequence.

If the Third Party Oversight Representative finds visible accumulations of asbestos debris in the work area after cleaning, the subcontractor will repeat the wet-cleaning, at his own expense, until the work area is in compliance.

When a final inspection and air monitoring determine that the area is free of accumulations of visible asbestos debris and airborne fibers, the decontamination enclosure systems will be removed, all areas will be thoroughly wet-cleaned and materials from the equipment room and shower will be disposed of as contaminated waste. A final check will be carried out by the Subcontractor to ensure that no dust or debris remains on surfaces as a result of dismantling operations.

5.1.14 Determining Abatement Completion

5.1.14.1 Visual Inspection

The Third Party Oversight Representative will conduct a thorough first visual inspection of each work area after the subcontractor has indicated that all asbestos-containing material has been completely removed. The first inspection will be conducted before the plastic sheets have been cleaned with damp mops and cloths, but after all gross debris has been properly cleaned prior to the spray application of sealant to exposed surfaces.

Items to be checked during the first visual inspection will include, but are not limited to, the following:

- The adequacy of the removal of asbestos-containing material from the substrates.
- The presence of adhering material or accumulated material on exposed surfaces.
- Only after the work area has passed the first visual inspection will the subcontractor be permitted to apply sealant materials.

After the work area has passed the first visual inspection, the subcontractor will apply the sealant to exposed surfaces and clean all surfaces in the work area and any other contaminated areas with water and/or with HEPA filtered vacuum equipment. The plastic sheets on the walls and floor may be sprayed with the sealant provided that all loose asbestos debris has been removed from the plastic prior to spraying and that the plastic sheets are sufficiently clean in the judgment of the on-site Third Party Oversight Representative to allow the sealant to effectively bond any residual material to the plastic. The subcontractor will wait twelve (12) to twenty-four (24) hours to allow the sealant to dry and dust to settle.

The Third Party Oversight Representative will conduct a second visual inspection of the work area after application of the sealant. Items to be checked during the second visual inspection will include, but are not limited to, the following:

- Cleanliness of the work area and decontamination areas; accumulations of loose dust or debris on plastic sheets covering surfaces, walls and floors.

- Complete coverage of the exposed surfaces by the sealant.
- The Third Party Oversight Representative may, at their discretion, use an electric leaf blower during the inspection to dislodge or discover any hidden debris that should have been removed. It is strongly recommended that the subcontractor perform this procedure himself in each work area before notifying the Third Party Oversight Representative that the area is clean and ready for inspection. If visible dust or debris is discovered during the inspection, the Subcontractor will wet-clean the entire work area again until the Third Party Oversight Representative is satisfied that all visible dust or debris has been removed.

If any accumulation of dust or debris is observed, the subcontractor will be required to wet-clean and/or HEPA vacuum the work area again and repeat the inspection procedures.

After the work area has passed the second visual inspection, the subcontractor will remove the plastic sheets from walls and floors only. The windows, doors, and HVAC vents will remain sealed. All HEPA filtered air filtration devices and decontamination enclosure systems will remain in service. After an adequate settling period, the Subcontractor will wet-clean or HEPA vacuum all objects and surfaces in the work area.

The Third Party Oversight Representative will conduct a third thorough visual inspection of the work area to ensure that it is free of visible dust after completion of the final cleaning operation. After the work area has passed the third visual inspection and the walls, floors, and all exposed surfaces are dust free, final air monitoring will be performed by the Third Party Oversight Representative as described in Section 4.8. Only after the work area meets the air testing criteria(s) specified in Section 4.8 will the subcontractor be permitted to proceed with the next phase of work.

5.1.15 Sealant Application for Lock Down

In all areas where asbestos-containing materials were removed, an approved sealant will be used to lock down any residual airborne asbestos fibers to the substrate and to prevent subsequent dispersion or re-suspension.

The sealant will be applied to unfinished walls, floor deck, plastic sheeting, and other applicable areas. Sealant will not be applied to dirt floors, mechanical and electrical equipment or to finished surfaces.

The sealant will be applied with low-pressure airless spray equipment.

The sealant will be used and applied in strict accordance to manufacturer's specifications.

The subcontractor will apply a thin, visible, contiguous film of sealant to all areas specified. Additional applications will be required if the first application does not adequately cover the substrates or lock down residual airborne asbestos fibers.

5.1.16 Final Air Monitoring

Final air tests will be performed to determine and document air quality upon completion of all asbestos abatement projects. Third Party Oversight Representative will perform the final air tests after the work area has passed the final visual inspection. Fans or blowers will be

used to circulate air in the work area during the final air tests to simulate building use conditions (aggressive sampling). Samples will be collected by use of high-volume electric sampling pumps calibrated up to a maximum flow rate of ten (10) liters/minute. Final clearance air samples will be collected and analyzed phase contrast microscopy (PCM) as described below:

Acceptable final clearance concentrations by PCM - Final air samples will be collected from several locations within the work area and in adjacent equipment and worker decontamination areas. The samples will be collected and analyzed by PCM using NIOSH Method No. 7400 Revision 3; 'A' rules. The total airborne fiber concentrations for each sample location collected inside the work area must be less than or equal to 0.01 f/cc. If any air sample concentration within the work area is greater than 0.01 f/cc, the Subcontractor will wait twenty-four (24) hours from the end of the air sampling period and re-clean the work area with HEPA-filtered vacuum equipment, damp cloths and mops. Additional sets of air samples for the entire work area will be collected and analyzed by the Environmental Project Manager at the Subcontractor's expense until the acceptable fiber concentration of 0.01 f/cc is achieved. If the fiber levels in the work area still exceed 0.01 f/cc, the Subcontractor will be required to re-clean and pay for the additional air monitoring.

5.2 Lead

A lead-based paint (LBP) assessment was conducted for structures that will be demolished at the site. Results are presented in Appendix A. There are no environmental requirements to remove lead prior to demolition. However, lead may be removed from some structures in accordance with OSHA requirements (29 CFR 1926.62).

Painted metal that is accessible for recycling will be removed from the facility prior to demolition. If the painted metal cannot be removed because it is an integral part of a structure, its location will be noted and marked as necessary so the item can be segregated during the post-demolition sorting, and characterized as necessary for disposal. LBP will not be abated from recyclable metals.

5.3 PCBs

5.3.1 Light Fixtures

5.3.1.1 PCB Ballasts

Lamp fixtures are anticipated to be the most common source of PCB Ballasts at the site. The fixture must be disassembled in order to remove the lamp ballasts for examination as "PCB" or Non-PCB" and managed as PCB waste if the "No PCB" designation is not shown.

PCB ballasts will not be disposed as scrap metal or trash. Entire lamp fixtures will not be discarded as scrap metal without ballast removal and PCB evaluation.

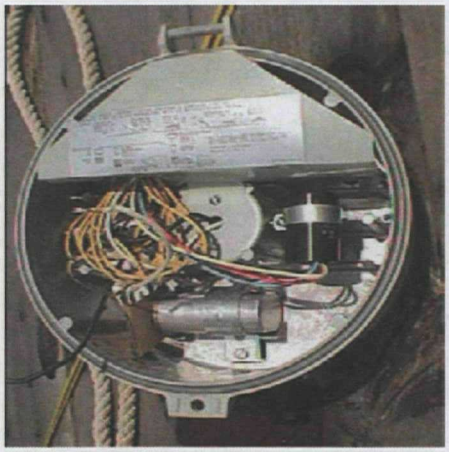
Pre-1980 ballasts may contain >50 ppm PCB in the asphaltic potting (insulating) materials as well as a small PCB liquid filled capacitor. Unless the ballast states "No PCBs", it must be managed as regulated PCB waste.

- Intact, nonleaking ballasts that contain <50 ppm PCBs and no capacitor, an intact capacitor, or a capacitor marked "No PCBs" will be segregated and stored in a drum or other appropriate container, or lined roll-off box and marked as non-TSCA waste or equivalent.
- Ballast that contains ≥50 ppm PCBs or any ballast with a leaking capacitor will be segregated from non-TSCA waste, placed in leak-proof containers or in overpack containers and marked as PCB-containing waste or equivalent.
- Ballasts that contain or are assumed to contain 50 ppm PCBs in the potting material, or any ballast that contains a leaking capacitor may be stored onsite for 180 days from the date of generation, as indicated under 40 CFR 761.65(c)(9) for PCB bulk product waste.

5.3.1.2 Small Capacitors

Some lamp fixtures and other electrical equipment will have a small capacitor. PCB Small Capacitors in pre-1980 equipment are commonly encountered during electrical work and demolition. These are often found in electrical equipment such as lamp fixtures (HID Lamps) and air conditioners. All small capacitors must be removed, examined for "No PCB" label and managed as PCB waste if the "No PCB" designation is not shown.

If managed separate from ballasts, small capacitors (even non-PCB liquid filled small capacitors) will be contained separately, and not put in general trash or scrap metal receptacles. Leaking capacitors will be placed with the ballasts marked PCB containing waste. Non-leaking capacitors, regardless of date of manufacture or PCB concentration will be placed with other non-TSCA waste.



FIXTURE WITH SMALL CAPACITOR IN-PLACE

REMOVE AND EXAMINE THE SMALL CAPACITOR. NOTE: "NO PCBS" ON LABEL.

5.3.1.3 Transformers

TSCA has many unique requirements for differing types of transformers and other electrical equipment containing PCBs (capacitors, switches, voltage regulators). The following requirements apply to pole-mounted and pad-mounted transformers. The requirements for other electrical equipment will be evaluated on a case-by-case basis.

Under 40 CFR §761.2(a)(2), a pole-top or pad-mounted distribution transformer manufactured before July 2, 1979 must be assumed to be PCB-Contaminated Electrical Equipment, i.e., ≥50 and <500 ppm PCBs. A pole-top or pad-mounted distribution transformer manufactured after July 2, 1979 is assumed to be non-PCB, i.e., <50 ppm PCBs. If the date of manufacture of the pole-top or pad-mounted distribution transformer is unknown, it must be assumed to be PCB-Contaminated, i.e., ≥50 and <500 ppm PCBs.

These transformers will not be drained onsite. If the transformer is considered PCB-Contaminated Electrical equipment (i.e., manufactured prior to July 2, 1979 or known to contain ≥50 ppm PCBs, it will be marked with the date that the item was removed from service. The storage area will be managed so that the transformers or their overpacks can be located by this date.

Transformers that are not considered PCB-Contaminated Electrical Equipment will be stored separately.

All leaking transformers will be contained in an overpack or other leak-proof container while in storage.

5.3.1.4 PCB Oil

Oils that contain > 2 ppm PCBs will be segregated from other oils, and marked with a PCB label that identifies the concentration of the oil. PCB oil that contains ≥50 ppm PCBs will have secondary containment.

5.4 Universal Waste

5.4.1 Batteries

Batteries that show evidence of leaks, spills, or damage will be contained in a structurally sound, compatible drum or other small container. Battery storage containers will remain closed. Electrolytes removed from batteries will be managed as solid/hazardous waste.

5.4.2 Mercury-Containing Equipment

Mercury-containing equipment with non-contained elemental mercury or that shows evidence of leakage, spillage, or damage that could cause leakage will be placed in a drum. The drum must be closed, structurally sound, compatible with the contents of the device, must lack evidence of leakage, spillage, or damage that could cause leakage, and must be reasonably designed to prevent the escape of mercury into the environment by volatilization or any other means. Mercury ampules will not be removed while onsite.

5.4.3 Lamps

Lamps will be contained in a drum or package that is structurally sound and adequate to prevent breakage. Lamp storage containers and packages will remain closed. Note - crushing of universal waste lamps will not be allowed. Crushed or broken lamps will be contained separately.

5.5 Building Materials

Residue from facility operations is present throughout the inside/outside of some buildings. Several samples of the residue were collected and analyzed for TCLP metals. Several were found to contain levels of lead and cadmium above toxicity characteristic levels (40 CFR 261.24) (See Appendix A for results). In addition, building materials (e.g., concrete, brick) were sampled and analyzed for TCLP metals (see Appendix A for results). The building materials were sampled by collecting "chip" samples to provide general existing contamination information to help determine disposal options. The sampling results showed that building materials at several locations exceed toxicity characteristic limits for cadmium or lead. Subsequent waste characterization sampling representative of the debris as a whole (vs surface only) is planned for November 2010. The building materials will be decontaminated for Health and Safety purposes, as well as for disposal purposes.

In order to safely demolish the buildings, one or more the decontamination methods described in Section 5.5.3 below will be utilized on all floors, walls, equipment, piping, etc. Note the concrete, brick, etc will be rinsed to remove residues. Decontamination is being performed for Health & Safety purposes and it is not the intent of CH2M HILL to decontaminate these materials to remove embedded hazardous constituents. All debris will be representatively sampled and analyzed to determine if it can be placed in the onsite consolidation cell (non-hazardous per 40 CFR Part 261 Subpart C) or if it must be disposed of off-site. All collected residues and wastes will be properly contained, characterized and disposed properly off-site.

5.5.1 Tanks, Equipment, Piping, etc

Tanks, equipment, piping and other metal items will be decontaminated as appropriate, prior to offsite transportation and disposal or recycling. The requirements for scrap metal dealers to accept a majority of the metals materials in their present condition are that the interior and exterior surfaces are free of any residual material and gross surface contamination is removed. These surfaces will be decontaminated such that these materials can be safely recycled or disposed as C&D debris, and to render the equipment/piping safe for demolition work.

Some items may be removed from the buildings and decontaminated at a decontamination pad. The decontamination pad will be lined and include berms or similar in order to capture and collect all decontamination water. CH2M HILL will ensure decontamination sprays do not fall outside of the decontamination pad.

It is assumed the two existing ASTs have been previously emptied and decontaminated. However, a fitting or manway on top of each of the two tanks will be opened and the interiors inspected prior to any demolition activities. If free product or sludges are observed, the material will be sampled to determine decontamination requirements prior to demolition.

Decontamination will include all equipment, including but not limited to, all tanks, cooling towers, ductwork, hoppers, etc. All tanks, equipment, piping, etc. is assumed to be contaminated with hazardous wastes (residues). These metal items will be decontaminated in accordance with the Alternative Debris Standards, Title 40 Code of Federal Regulations (40 CFR) Part 268.45 as described below.

As specified in the Alternative Debris Standards, 40 CFR Part 268.45, metal, glass, plastic, and rubber contaminated with hazardous waste can be decontaminated by multiple methods including high pressure steam and water sprays, water washing and spraying, etc. to "...clean debris surface." These Alternative Debris Standards are considered to be "performance standards"; post decontamination sampling is not required as long as decontamination follows these Standards. Once these types of material are decontaminated, they can be removed as non-hazardous wastes or recyclable material.

Decontamination water will be collected and contained in portable tanks. Adequate temporary storage capacity, but no more than a total of 20,000 gallons, will be provided at the project site. Sampling and analysis of the decontamination water will be performed for profiling purposes and to determine disposal options. Samples will be collected at a rate of one per portable tank or one per 10 drums.

5.5.2 Methods of Decontamination for Industrial Facilities

Many "off the shelf" technologies which are well suited for the decontamination of the facility are available. In general, these technologies have been developed and used in industrial cleaning applications for the maintenance of process plants and power generating facilities prior to being introduced into the environmental marketplace. A discussion of the various technologies that are candidates for use at the site is provided below. The method will be determined during the procurement process. Bidder's proposals will be evaluated for technical approach and associated costs.

5.5.2.1 Low Pressure Water Blasting

Low pressure water blasting is one of the most commonly used techniques to perform industrial and environmental cleaning for the removal of light to medium staining and residue from affected surfaces. For this work plan, low pressure water blasting is defined as a pressure washer that can deliver a maximum pressure of 3,500 psi with a flow rate of 5 to 6 gallons per minute. Low-pressure water blasters are available from commercial rental stores and require little or no training to operate.

5.5.2.2 High Pressure Water Blasting

High pressure water blasting has been used more and more in the environmental cleanup business during the last several years. For this work plan, high-pressure water blasting is defined as having an operating pressure of greater than 5,000 psi up to 40,000 psi with a flow rate of 10 to 30 gallons per minute. This method of decontamination is very effective in removing heavy, gross contamination from a variety of surfaces. The ultra high pressure water blasters have even been used to cut stainless steel tanks that contain materials inside them that prohibit the use of hot cutting techniques. In certain industrial applications high pressure water has been used to remove concrete flooring (known as hydro-demolition). These high-pressure water blasters have a standard lance and wand attachment to clean vertical surfaces such as walls and ceilings as well as walk behind specialty attachments to clean large horizontal surfaces such as floors. The walk behind spin jets can be used to clean concrete floors and operate at pressures from 10,000 psi to 36,000 psi. These types of industrial pressure washers are normally operated by an individual that has received adequate training in the safe operation of the equipment.

5.5.2.3 Dry Ice Blasting

Dry ice blasting is a form of abrasive blasting, which dry ice (the solid form of carbon dioxide) is accelerated in a pressurized air stream and directed at a surface in order to clean it. The method is similar to other forms of abrasive blasting, but substitutes dry ice as the blasting medium. Dry ice blasting leaves no chemical residue as dry ice sublimates at room temperature.

5.5.2.4 Mechanical Removal

Mechanical removal of residual contamination can be done for relatively small horizontal or vertical affected areas. Mechanical devices such as needle guns and scabblers have been used to remove thin veneers of contaminants from masonry walls and floors. Mechanical removal techniques have also been utilized for the removal of lead-based paint as well as the removal of radioactive contamination from concrete.

5.5.2.5 Chemical Extraction Technologies

Chemical extraction technologies have been utilized in a variety of applications at operating facilities where non-destructive techniques must be employed. In general, the chemistry of chemical extraction is based on the theory that contaminants often migrate into the pores and microscopic voids of a material. Over time, the mobility of the contaminants, and electrostatic forces often drive these contaminants to deeper levels in the substrate. In addition, these contaminants tend to become chemically or electrostatically bonded to the substrate. The chemical extraction process is designed to achieve the following:

- Reopen the pores and capillary pathways to the maximum possible extent
- Penetrate the pores as deeply as possible
- Break the substrate and contaminant bonds that may be holding the contamination in place
- Bind or sequester the contaminants in the chemical solution to prevent recontamination

This particular technology has been employed for the removal of radionuclides, PCBs, and other hazardous organic and inorganic substances from solid materials such as concrete, brick, and steel.

6.0 Demolition Work Plan

Demolition activities will occur after decommissioning and decontamination of the facilities. Buildings and tanks will be demolished to grade with the slabs/foundations to remain. Scrap metal will be sent for off-site recycling if possible. Concrete/brick will be processed on-site (to 2-foot minus) and placed in the on-site consolidation cell.

6.1 Roles and Responsibilities

Listed below is a table that delineates the roles and responsibilities that each party may take during a demolition project. Depending upon the owner's wishes and site specific conditions the responsibilities listed in the table can be modified as necessary to meet the requirements of the project. The primary role of the USEPA is to set forth the overall objectives and schedule for the project and to decide what duties and responsibilities they desire to assign to others. In a turn-key plant decontamination and demolition project, the CH2M HILL 's and subcontractor's role are combined under one responsible entity.

TABLE 6-1
Roles and Responsibilities
Work Plan for the Demolition of Buildings at the Former Eagle Zinc Facility

Description of activity	USEPA's role	CH2M HILL's Role	Subcontractors Role
Permit – EIS	X-Supply data	X-Prepare Plan	
Permit – SWPP		X-Prepare Plan	X-Implement
Permits - All Other			X - Obtain
Selection of Bidders		X - Approve	
Submittals		X – Approve	X - Prepare
Pre-Demo Preparation			
Training and Testing			X
Water Supply System	X - Provide Access	X - Design (if req'd)	X - Construct
Protect Site			X - Implement
Regulatory Notifications		X – Verify	X - Implement
Utility Work		X - Design & Verify	X - Notify & Implement
Hazardous Material Work as Required	X - Provide Info	X - Design/Specs & Inspection	X - Implement
Demolition Work	X - Provide Info	X - Design Project - Provide Inspection	X - Implement
Disposal and Recycling			X - Implement
Final Site Grading and Drainage	X - Define What is Needed	X - Design/Survey and Inspection	X - Implement

6.2 Typical Equipment for Demolition Projects

There is a variety of tracked equipment that is very effective in completing demolition projects. In the table below the various structures that could be encountered as part of a demolition project and the equipment that is typically utilized to perform the demolition. The table is not meant to be an all inclusive list nor is it meant to dictate means and methods for the subcontractor that will implement the demolition work. It is presented as a guidance document to provide EPA with an idea of what type of equipment they will see at the site to perform the demolition.

TABLE 6-2
Typical Equipment for Demolition Projects
Work Plan for the Demolition of Buildings at the Former Eagle Zinc Facility

Category of Work	Sub – Category	Typical Methods of Demolition
Structures	Above Grade - Structural Concrete and Steel Frame	Excavator with Shear or Bucket & Thumb; Crane and Wrecking Ball; Explosives Option
	Wood, Light Steel Frame	Excavator with Bucket & Thumb: Front End Crawler Loader
	Heavy Concrete - i.e. Equip. Foundations, etc.	Crane & Ball; Excavator with Breaker; Explosives Option
Equipment	Large/Heavy Equip. & Elevated Items - Turbines, Boilers - etc	Crane with Rigging Crew; Existing Overhead Crane if Operable Manlifts for Access
	General Equip. i.e. Pumps, Motors - etc.	Large Forklift, Crane, Rigging Crew Manlifts for Access
	Piling	Excavator with Bucket & Thumb; Crane with Pile Extractor
	Concrete, Asphalt Yard Paving	Excavator with Bucket; Front End Crawler Loader
Recycle Demolition Materials	Structural Steel, Pipe and Miscellaneous	Excavator with Shear
	Concrete & Asphalt	Portable Crushers (designed for this application)
	Timber	Light Crane; Forklifts; Rigging Crew
Miscellaneous Structures and Equipment	Tanks & Vessels	Excavator with Plate Shear; Excavator with Bucket & Thumb; Torch-Cut from Manlift
	Overhead Conveyors and Similar Structures	Crane with Rigging Crew and Manlift; Excavator with Shear

Techniques that are safe will be used to complete the demolition work. As such, demolition techniques such as explosives or mass wrecking equipment will not be used due to the proximity to neighborhoods and public roadways.

6.3 Structural Considerations

Building E and the southern end of Building M are structurally unsound and unsafe for entry. As such, asbestos and lead sampling has not been performed in these buildings. These buildings will be partially demolished to allow subsequent sampling of the building materials. Building E contains many windows in the structurally unsound area. Window caulking at the site has tested positive for asbestos. As such, these windows will be sufficiently wetted during removal (via excavator with grapple) and the windows will be packaged and disposed with ACM waste. Several windows are broken and caulking materials may be dispersed on the building flooring or on the ground outside the building. After removal of the structurally unsound building materials, any caulking on the flooring will be wetted, swept up, packaged and disposed as ACM. If caulking material is observed on the ground outside the buildings, the top 1 - 2 inches of the soil will be removed, packaged and disposed of as ACM.

If testing performed after partial demolition of these building show the equipment and building materials to contain ACM, pricing for the additional materials will be solicited. After approval of additional funding, the appropriate notifications will be made and the materials will be abated prior to performing the remaining demolition.

6.4 Dust and Emission Control Procedures

Dust and emission control procedures are critical to the overall success of the demolition work at the site. Based upon the site's location and its close proximity to residential neighborhoods, it is imperative that any fugitive emissions be controlled and contained within the plant boundaries. In general there are three primary sources of dust on a typical demolition project: 1.) Existing fine material from former operations; 2.) Dust generated from demolition operations; 3.) Yard dust created by moving equipment around the site.

6.4.1 Dust Control

There are a number of options for the general control of dust depending upon what is available on the site. Generally, a 1-1/2" fire hose equipped with an adjustable fire nozzle can apply the water where it is needed. In cases where too much water could be a problem, there are various types of high pressure, low volume systems available to create a misting type of application. For accessing elevations beyond the reach of available pressure, a manlift is often used or water is supplied to a secondary, high pressure pump to boost range. The following water sources can be used:

1. Use existing hydrants
2. Hook up to a city hydrant with a meter
3. Use existing cleaned tanks to store water and portable pumps to provide service where needed.

4. Use water tank trucks to bring water to site and supply with pumps where needed
5. For yard dust, use water trucks with spray bars to periodically wet the ground and roadways.

If there is any chance of the dust being contaminated, appropriate PPE must be used. During demolition, the structure being demolished is pre-wetted as much as possible and sufficient hoses are used to maintain minimum dusting. Dust control is also needed for recycling operations, especially any concrete crushing operations. Trucks leaving the site should be wetted and covered with tarps to eliminate any dust outside of the site. A wheel wash system should also be used if the truck tires travel through unpaved areas.

6.4.2 Control of Other Contaminants

For existing contaminants that cannot be removed during the hazardous materials removal and decontamination process, there are several possible methods to control migration. Among these are:

1. Enclose contaminated areas with high-strength visqueen or shrink wrap and hand clean the area as it is being demolished in small pieces using hand held tools.
2. Remove contaminated equipment or structures in sections that are rigged and lowered with crane and rigging crew to a point where they can be cleaned.
3. For small contaminated items, it may be possible to shrink wrap the entire piece and dispose of it as a hazardous material.

6.4.3 Stormwater Pollution Prevention

Suggested methods for stormwater pollution prevention to be incorporated as Best Management Practices are as follows:

1. The existing storm water collection system will be used for as much of the demolition as possible. Catch basins will be protected from damage by the demolition operations. Catch basin grates will be covered with geotextile filter fabric or surrounded by haybales to minimize silt from entering the stormwater collection system.
2. For above grade demolition, plug all floor or storm drains in the slab and divert the storm water to existing catch basins.
3. Silt fencing and other similar methods will be utilized to prevent any sediment from escaping the project site. Existing ponds will be protected from any possible sediment runoff.
4. A Stormwater Pollution Prevention Plan will be generated and implemented for site activities.

6.4.4 Air Monitoring Plan

During abatement and decontamination activities, air monitoring will be performed in accordance with the HSP to protect workers and surrounding receptors. Air monitoring locations will be determined in the field based on work area, work activities and weather conditions.

During demolition activities, real-time air monitoring at the property line will be performed to verify there is no off-site migration of contaminants. Dust level readings will be collected along the fence line. If dust level readings exceed action levels, demolition activities will be halted and dust control measures will be modified to meet acceptable levels.

7.0 Waste Management Plan

This Waste Management Plan outlines the procedures for managing waste generated during the decontamination and demolition (D&D) of the Eagle Zinc facility. The Waste Management Plan identifies waste streams that will be generated during these activities and discusses the requirements for waste accumulation/storage, transportation, and disposal as well as general procedural requirements. Recycling and reuse of waste materials is discussed in Section 8.0.

The Illinois Environmental Protection Agency (IEPA) has incorporated by reference many the Federal waste regulations under the Resource Conservation and Recovery Act (RCRA). Accordingly, the applicable RCRA requirement for a specific waste will be cited; where a State or another Federal regulation applies, it will be cited.

All wastes generated during D&D activities will be managed according to provisions in this plan, including wastes generated by Subcontractors. All Subcontractors are expected to understand the procedures outlined in this plan.

This Waste Management Plan is organized in the following subsections:

- Expected Waste Streams
- Waste Characterization
- Compatibility Evaluation
- Onsite Management
- Transportation
- Disposal
- Inspections
- Training
- Records and Reporting
- Applicable Regulatory Requirements

7.1 Expected Waste Streams

This section describes the categories or types of waste streams that are expected to be generated during D&D activities at the site. Solid wastes consist of any materials (solid or liquid) that are intended to be discarded. For purposes of this plan, the term solid includes wastes that are subject to RCRA. During D&D activities, several categories of RCRA solid wastes warrant detailed consideration in this plan: hazardous waste, universal waste, lead-contaminated debris, non-hazardous waste, used or waste oils, Illinois Special Waste

(asbestos waste, PCB waste), C&D. These types of wastes are discussed in the following subsections.

7.1.1 Illinois Special Waste

Illinois Special Wastes includes hazardous waste and pollution control wastes. A hazardous waste is defined below. Pollution control wastes include liquid wastes, asbestos waste, and regulated PCB waste. These wastes are regulated under Title 35 Ill. Adm. Codes 807-832.

7.1.2 Hazardous Waste

CH2M HILL assumes none of the waste is a listed hazardous waste as provided in 40 CFR Part 261 Subpart D. Wastes from the Eagle Zinc facility will be characterized as hazardous waste if it exhibits one or more hazardous characteristics presented in Table 7-1 (40 CFR Part 261 Subpart C and Part 721 Subpart C of Title 35 of the Ill. Adm. Code). These wastes would carry the "D" waste code for that constituent.

TABLE 7-1
Hazardous Waste Characteristics
Work Plan for the Demolition of Buildings at the Former Eagle Zinc Facility

Waste Code	Characteristic	Regulatory Citation (40 CFR)	Examples			
D001	Ignitability —easily ignites and oxidizes	261.21	Some spent chlorinated solvents			
D002	Corrosivity—pH ≤2 or ≥12.5, able to dissolve metals or burn skin	261.22	Spent sulfuric battery acid			
D003	Reactivity—capable of rapid chemical reaction, detonation, explosion, or generation of toxic fumes	261.23	Dry organic peroxide used as an accelerator in fiberglass repair			
D004 - D043	Toxicity—waste contains specific contaminant in leachate extracted from waste using Toxicity Characteristic Leaching Procedure (TCLP), SW-846 Method 1311	261.24	D004-Arsenic	5.0[1]	D023-o-Cresol	200
			D005-Barium	100	D024-m-Cresol	200
			D006-Cadmium	1.0	D025-p-Cresol	200
			D007-Chromium	5.0	D026-Cresol	200
			D008-Lead	5.0	D027-	7.5
			D009-Mercury	0.2	1,4Dichlorobenzene -	0.5
			D010-Selenium	1.0	D028-1,2 Dichloroethane	0.7
			D011-Silver	5.0	D029-	0.13
			D012-Endrin	0.02	1,1Dichloroethylene -	0.008
			D013-Lindane	0.04	D030-2,4Dinitrotoluene	0.13
			D014-Methoxychlor	0.5	D031-Heptachlor	0.5
			D015-Toxaphene	10	D032-	3.0
			D016-2,4-D	1.0	Hexachlorobenzene -	200
			D017-2,4,5-	0.5	D033-	2.0
			TP(Silvex)	0.5	Hexachlorobutadiene	100
			D018-benzene	0.3	D034-Hexachloroethane	5.0
			D019-carbon	100	D035-Methyl ethyl	0.7
			tetrachloride	6.0	ketone --	0.5
			D020-Chlordane		D036-Nitrobenzene	400
			D021-		D037-Pentachlorophenol	2.0
			Chlorobenzene		D038-Pyridine	0.2
			D022-Chloroform		D039-	

TABLE 7-1
Hazardous Waste Characteristics
Work Plan for the Demolition of Buildings at the Former Eagle Zinc Facility

Waste Code	Characteristic	Regulatory Citation (40 CFR)	Examples
			Tetrachloroethylene - D040-Trichloroethylene - D041-2,4,5-Trichlorophenol D042-2,4,6-Trichlorophenol D043-Vinyl chloride

[1] – all units in mg/L

Potential hazardous wastes from decontamination and demolition activities may include:

- Process waste and/or residues:
  - Cadmium - D006
  - Lead - D008
- Building materials
- Aqueous wastes from decontamination
- Carbon filters

7.1.3 Universal Waste

Universal wastes are regulated under RCRA (40 CFR Part 273). The applicable requirements are determined by the amount of universal waste generated at any one point in time. If less than 5,000 kilograms (kg) of universal waste generated during D&D activities, the universal wastes are subject to the small quantity handler requirements (40 CFR 273, Subpart B). If more than 5,000 kg of universal waste are generated, the waste is subject to the large quantity handler requirements (40 CFR 273, Subpart C). Once 5,000 kg of universal waste is generated, all universal waste must be handled in accordance with the Large Quantity Handler requirements for the rest of the calendar year. The following universal wastes may be generated.

7.1.3.1 Batteries

These include nickel-cadmium and small sealed lead-acid batteries, which are found in many common items in the business and home setting, including electronic equipment, mobile telephones, portable computers, and emergency backup lighting.

7.1.3.2 Mercury-containing equipment

This equipment includes devices or a part of a device (including thermostats, but excluding batteries and lamps) that contains elemental mercury integral to its function.

7.1.3.3 Lamps

These are defined as the bulb or tube portion of an electrical lighting device, which typically contain mercury and sometimes lead, and are found in businesses and households. Examples of common types of lamps include fluorescent, high-intensity-discharge, neon, mercury vapor, high-pressure sodium, and metal halide lamps. Crushed or broken lamps will be managed and disposed as hazardous waste for mercury (D009).

7.1.4 Lead Based Paint Contaminated Debris

The following two waste streams contain LBP and will be generated during demolition activities:

- Demolition debris that contains LBP
- Debris from removing LBP from building materials

Where LBP is removed from a surface, the resulting debris (e.g., paint chips) will be contained. It is anticipated that this waste will be a RCRA hazardous waste because of lead, and will be managed as such unless otherwise characterized.

It is assumed that demolition debris that contains LBP (e.g., concrete debris with LBP) will not be hazardous under RCRA, and will be managed as a nonhazardous solid waste. This debris will be analyzed to confirm the characterization. Scrap metal with LBP that will be recycled is exempt from RCRA as a solid waste (40 CFR 261.4(a)(13)). Accordingly, scrap metal will not be characterized.

7.1.5 Solid Nonhazardous Waste/Municipal Solid Waste

For purposes of this plan, this category includes those solid wastes that are not hazardous in accordance with 40 CFR Part 261, universal wastes, or regulated for disposal under another State or Federal law.

Uncontaminated solid waste would include municipal solid wastes, also referred to as garbage or trash, which include everyday items such as packing materials, office waste, food scraps, and green waste.

7.1.6 Used or Waste Oils

Used oils and certain used oil filters are regulated under 40 CFR 279 and include any oil that has been refined from crude oil or any synthetic oil made from coal, shale or polymer-based starting material. As the name implies, it must have been <u>used</u>, and as a result of such use, it is contaminated with physical impurities (like metal fines, sawdust or dirt) or chemical impurities (like fuel, solvents, halogens or water).

Used oil does include:

- engine oil
- transmission fluid
- compressor oil
- metalworking oils
- hydraulic oil
- refrigeration oil
- oils used as buoyants
- electrical insulating oil

Used oil does not include:

- vegetable oil or animal oil, even when used as a lubricant
- virgin (unused) oil
- bottom clean-out waste from virgin oil storage tanks
- petroleum-derived products like antifreeze or kerosene
- petroleum-distillates used as solvents

EPA assumes that used oil will be recycled. Used oil containing more than 1,000 parts per million (ppm) total halogens is presumed to be a hazardous waste because it has been mixed with a listed (halogenated) hazardous waste (with a few exceptions note in 40 CFR 279). This presumption may be rebutted by sampling the oil, otherwise the used oil must be managed as a hazardous waste under 40 CFR Parts 262-270 instead of under the more favorable used oil management standards of 40 CFR Part 279.

The term waste oil, for purposes of this plan, applies to petroleum, oils, and lubricants that have not been used and will be recycled. Waste oil is not a waste and not subject to RCRA if it is recycled since it will be used for its intended purpose.

7.1.7 Asbestos Waste

Several of the structures to be demolished contain asbestos containing material (ACM) which are subject to the National Emission Standard for Hazardous Air Pollutants (NESHAP), 40 CFR 61, Subpart M, if it is:

- Friable asbestos material
- Category I nonfriable ACM (e.g., resilient floor tiles) that has become friable
- Category I nonfriable ACM that will be or has been subjected to sanding, grinding, cutting, or abrading
- Category II nonfriable ACM (e.g., transite siding), that when dry, has a high probability of becoming or has become crumbled, pulverized, or reduced to powder by the forces expected to act on the material in the course of demolition or renovation operations.

To prevent Category I nonfriable ACM from becoming subject to NESHAP, it will not be subject to sanding, grinding, cutting, or abrading (cutting means to penetrate with a sharp-edged instrument and includes sawing, but does not include shearing, slicing, or punching). In most cases, Category II ACM will be removed prior to demolition. If these materials are carefully removed so as not to cause significant damage, the materials will not be subject to NESHAP.

Friable and nonfriable ACM is regulated as "special waste" for offsite transportation and disposal under 33CSR1, Section 4.13.

7.1.8 PCB Waste

7.1.8.1 PCB Ballasts and Small Capacitors

It is anticipated that some fluorescent light ballasts removed prior to demolition will contain PCBs in the potting material and/or in small capacitors, and may be regulated under the Toxic Substances Control Act (TSCA). See the Decontamination Plan for a detailed discussion on PCB ballasts and small capacitors.

Table 7-2 provides abbreviated summary of the TSCA requirements for the different types of light ballasts[1].

TABLE 7-2
TSCA Disposal Requirements for Light Ballasts
Work Plan for the Demolition of Buildings at the Former Eagle Zinc Facility

PCB Capacitor	PCB Potting Material	Labeling, Transportation and Manifesting for Disposal	Disposal Reference in 40 CFR§761	Disposal Options
"No PCBs" label		Not regulated under TSCA	N/A	Not regulated under TSCA
None	< 50 ppm	Not regulated under TSCA	N/A	Not regulated under TSCA
Intact and non-leaking or none	≥ 50 ppm	Is a PCB bulk product waste. No labeling is required. Manifesting is required for disposal.	.50(b)(2)(ii) .62(a)	TSCA Incinerator TSCA/RCRA Landfill Alternate Destruction Method Decontamination Coordinated approval State approved landfill (leach test required) Risk-based approval
Intact and non-leaking	< 50 ppm	No labeling or manifesting required	.50(b)(2)(i) .60(b)(2)(ii)	As municipal solid waste 40 CFR 761 Subpart D options
Leaking	< 50 ppm or ≥ 50 ppm	Disposal as PCB bulk product waste. No labeling is required. Manifesting is required for disposal.	.62(a)	TSCA Incinerator TSCA/RCRA Landfill Alternate Destruction Method Decontamination Coordinated approval Risk-based approval

7.1.8.2 Transformers

It is assumed that the transformers that will be removed prior to demolition or that are in storage are either pole-mounted or pad-mounted distribution transformers. Under 40 CFR

[1] EPA, Revisions to the PCB Q and A Manual, September 2001

§761.2(a)(2), a pole-top or pad-mounted distribution transformer manufactured before July 2, 1979 must be assumed to be PCB-Contaminated Electrical Equipment, i.e., ≥50 and <500 ppm PCBs. A pole-top or pad-mounted distribution transformer manufactured after July 2, 1979 is assumed to be non-PCB, i.e., <50 ppm PCBs. If the date of manufacture of the pole-top or pad-mounted distribution transformer is unknown, it must be assumed to be PCB-Contaminated, i.e., ≥50 and <500 ppm PCBs.

7.1.8.3 PCB Oil

PCB oil in containers onsite that contain ≥2 ppm PCBs are regulated for disposal under TSCA.

7.1.9 Other Waste

Other wastes that do not fit into one of the above categories, but may be regulated for removal and/or disposal including:

- Smoke detectors or exit signs with an ionizing radiation source (typically americium and tritium, respectively) are not specifically regulated by EPA or IEPA, but must be managed and disposed of properly.
- Ozone depleting substances (ODS) - regulated under 40 CFR Part 82, Subpart F. The ODS that may be removed during decontamination include:
  - Refrigerants, including chlorofluorocarbons (CFCs) and hydrochlorofluorocarbons (HCFCs), used in air conditioners and refrigeration equipment.
  - Halon used in fire suppression systems.

7.1.10 Construction and Demolition Debris

Construction and demolition (C&D) debris generated during demolition is not specifically regulated under RCRA as a solid waste, but is regulated for disposal by IEPA. The IEPA includes the following in the definition of C&D debris:

Clean construction or demolition debris is defined as uncontaminated broken concrete without protruding metal bars, bricks, rock, stone, reclaimed asphalt pavement, or dirt or sand generated from construction or demolition activities. Clean construction and demolition debris can be recycled, buried below grade provided it is outside of a groundwater well setback zone, or disposed of in a landfill. If buried below grade outside of a groundwater well setback zone, the construction and demolition debris must be covered with sufficient uncontaminated soil to support vegetation within 30 days of the completion of the burial. Broken concrete without protruding metal bars may be used for erosion control.

Construction or demolition debris is defined as non-hazardous, uncontaminated materials resulting from the construction, remodeling, repair, and demolition of utilities, structures, and roads, limited to the following:

- Bricks, concrete, and other masonry materials

- Soil
- Rock
- Wood, including nonhazardous painted, treated, and coated wood and wood products
- Wall coverings
- Plaster
- Drywall
- Plumbing fixtures
- Non-asbestos insulation
- Roofing shingles and other roof coverings
- Reclaimed asphalt pavement
- Glass
- Plastics that do not conceal waste
- Electrical wiring and components that do not contain hazardous substances
- Piping
- Metal materials incidental to any of the materials above

7.2 Waste Characterization

This section discusses the approach to waste characterization and documentation procedures.

7.2.1 Waste Characterization Approach

Wastes will be characterized according to the Sampling and Analysis Plan and as required under RCRA to determine whether they are hazardous (40 CFR Part 261 Subpart C and Part 721 Subpart C of Title 35 of the Ill. Adm. Code)). Solid waste (including C&D debris if suspected to be contaminated) will be characterized using analytical data and/or knowledge of the source material.

7.2.2 Waste Characterization Documentation

Waste information will be documented on a Waste Profile Form provided by the offsite treatment or disposal facility as part of the waste acceptance process. An approved copy of the Waste Profile Form will be received prior to offsite transport. EPA personnel will provide generator certification and/or signature if required. The Waste Profile Form typically requires the following information:

- Generator Name: EPA
- EPA ID No.

- Site Name: Eagle Zinc Site
- Site Address
- Waste name or type (for example, hazardous waste and codes or universal waste)
- Activity generating waste
- Source of contamination
- Historical use for area
- Physical state of waste (for example, solid or liquid)

A copy of the approved Waste Profile Form will be provided to the waste transporter as required. The Waste Profile Form will accompany the waste material at all times. Recyclable material will be shipped using a bill of lading.

7.3 Onsite Management

All wastes will be contained in a manner that prevents the spread of contamination. Unless EPA has designated a specific waste management area, wastes will be accumulated (and stored) at an onsite location that is under CH2M HILL control.

For purposes of this plan, container includes drums/small containers, portable tanks, and roll-off boxes.

7.3.1 Time Limit, Containment, and Labeling Requirements

The containment and labeling requirements specific to type of wastes or container are discussed below.

7.3.2 Hazardous Waste

It is assumed that hazardous waste will be accumulated onsite as a Large Quantity Generator (LQG) under the provisions in 40 CFR Part 262 and Title 35 Ill. Adm. Code 722). LQGs may accumulate hazardous waste for 90 days from the date of generation without a RCRA permit (40 CFR 262.34). The date of generation is the day that a waste is first placed in a container.

Hazardous wastes may only be accumulated in the following containers: drums, portable tanks, or roll-off boxes. Hazardous waste containers will be in good condition. Only nonstationary tanks (such as steel cargo tanks, wheeled tankers, or "frac" tanks) will be used to accumulate liquid hazardous or potentially hazardous wastes. Containers must be compatible with the hazardous waste stored in them. Incompatible waste will not be stored near other materials unless separated from them by a berm, dike, wall, or other device.

Hazardous waste drums, portable tanks, or roll-off boxes will be labeled as follows:

- "Analysis Pending" or "Waste Material" - Temporary or handwritten label until analytical results are received and reviewed. This label will include the accumulation start date.

- "Hazardous Waste" - Pre-printed hazardous waste labels with the following information:
  - Accumulation start date
  - Generator Name
  - EPA ID number
  - Waste codes
  - Prior to transport, the manifest number must be added (for containers of less than 110-gallon capacity)

Where applicable, the major hazards (e.g., flammable, oxidizer, and carcinogen) will be included on the label.

7.3.3 Universal waste

Universal waste may be accumulated for up to 1 year from the date that the waste is generated. However, these wastes will be removed from the site no later than 90 days from the date of generation.

Containers, transport vehicles, or vessels in which unused pesticide products are contained will be labeled or marked clearly with the following:

7.3.3.1 Batteries

Batteries that show evidence of leaks, spills, or damage will be contained in a structurally sound, compatible drum or other small container. Battery storage containers will remain closed. Electrolytes removed from batteries will be managed as solid/hazardous waste.

Batteries or a container of batteries will be labeled or marked with any one of the following phrases: "Universal Waste—Battery(ies)," "Waste Battery(ies)," or "Used Battery(ies)."

7.3.3.2 Mercury-Containing Equipment

Mercury-containing equipment with non-contained elemental mercury or that shows evidence of leakage, spillage, or damage that could cause leakage will be placed in a drum. The drum must be closed, structurally sound, compatible with the contents of the device, must lack evidence of leakage, spillage, or damage that could cause leakage, and must be reasonably designed to prevent the escape of mercury into the environment by volatilization or any other means.

Mercury ampules will not be removed while onsite.

Drums of mercury containing equipment will be labeled or marked clearly with any one of the following phrases: "Universal Waste—Mercury Containing Equipment," "Waste Mercury-Containing Equipment," or "Used Mercury-Containing Equipment."

7.3.3.3 Lamps

Lamps will be contained in a drum or package that is structurally sound and adequate to prevent breakage. Lamp storage containers and packages will remain closed.

Each lamp container or package will be labeled or marked clearly with any one of the following phrases: "Universal Waste—Lamp(s)," "Waste Lamp(s)," or "Used Lamp(s)."

7.3.4 Solid Nonhazardous Waste

RCRA does not require removal within a specific time from; however, these wastes will be removed from the site as soon as possible.

All liquids, including decontamination water will be contained in compatible drums or portable tanks, as appropriate. Other solid, nonhazardous waste will be placed in drums or roll-offs. Only non-flowing, solid nonhazardous waste (for example, LBP debris and C&D debris) may be placed in storage piles.

These wastes will be labeled as non-hazardous wastes.

"Non-Hazardous Waste" - Preprinted labels with the following information:

- Accumulation start date
- Generator name:
- EPA ID number
- Waste-specific information (e.g., contaminated soil)

7.3.5 Lead Based Paint Contaminated Debris

Debris with LBP that is characterized as hazardous or LBP paint debris will be accumulated and managed onsite as hazardous waste. See Section 7.3.2 Hazardous Wastes. If characterized as non-hazardous, it will be managed per Section 7.3.4.

7.3.6 Used Oil

Used or waste oils, used filters, and other related wastes will be placed in drums or aboveground tanks that are in good condition and not leaking. Containers and tanks used to store used oil will be labeled or marked with the words "Used Oil".

7.3.7 Asbestos Containing Materials

All ACM waste is considered Illinois Special Waste and will be managed and disposed in accordance with the Title 35 Ill. Adm. Codes 807-832.

Friable or nonfriable category II asbestos must be placed in double plastic bags and sealed or encased in two sealed layers of plastic wrap. Each bag or layer must be six (6) mils thick or greater and boldly marked and labeled as indicated below. "CAUTION: CONTAINS ASBESTOS FIBERS. AVOID CREATING DUST. CANCER AND LUNG DISEASE HAZARD." The name and address of the generator must also be marked on the container. Use of sealed cardboard containers or fiber drums may be required for dense waste or as extra protection against breaking of bags.

7.3.8 PCB Waste

All PCB waste is considered Illinois Special Waste and will be managed and disposed in accordance with the Title 35 Ill. Adm. Codes 807-832.

7.3.8.1 PCB Ballasts and Small Capacitors

- Intact, nonleaking ballasts that contain <50 ppm PCBs and no capacitor, an intact capacitor, or a capacitor marked "No PCBs" will be segregated and stored in a drum or lined roll-off box and marked as non-TSCA waste, or equivalent.
- Ballast that contains ≥50 ppm PCBs or any ballast with a leaking capacitor will be placed in leak-proof containers or in overpack containers and marked as PCB-containing waste, or equivalent.
- Ballasts that contain or are assumed to contain 50 ppm PCBs in the potting material, or any ballast that contains a leaking capacitor may be stored onsite for 180 days from the date of generation, as indicated under 40 CFR 761.65(c)(9) for PCB bulk product waste.

7.3.8.2 Pole or Pad-Mounted Transformers

- Transformers will not be drained onsite.
- Any leaking transformer will be places in an overpack container.
- Transformers should be marked at to their contents. If the equipment is already marked, TSCA regulations do not allow you to remove the mark at the time of disposal.
- Transformers that contain ≥50 ppm PCBs may be stored:
  - for 30 days from when they are removed from service they are placed on pallets and the storage area must be marked as required in 40 CFR §761.40(a)(10) [40 CFR 761.65(c)(1)], or
  - stored in a RCRA permitted hazardous waste storage area [40 CFR Part 761.65(b)(2)(i)].

7.3.8.3 PCB Oil

PCB oils should be placed in a container that has secondary containment. PCB oils that contain ≥50 ppm PCBs that are generated during decontamination, must have secondary containment and may be stored for 30 days or stored in a RCRA permitted hazardous waste storage area.

7.3.9 Other Waste

Smoke detectors and exit signs will be removed from facilities prior to demolition. Smoke detectors with radioactive sources (Am-241) will be segregated from photoelectric smoke detectors and will be further segregated by manufacturer. Smoke detectors and exit signs will be contained in sturdy boxes or other appropriate containers.

Ozone depleting substances will be evacuated (and contained) by certified technicians using equipment certified by an EPA-approved equipment testing organization.

7.3.10 C&D Debris

Uncontaminated (or decontaminated) scrap metal, intact (nonleaking) equipment, and other bulk, nonliquid wastes or debris may be accumulated in roll-off boxes or storage piles pending offsite disposal. C&D debris will be labeled as such.

7.4 Management of Containers and Storage Piles

The following requirements apply to onsite management of containers (drums/small containers, portable tanks and roll-off boxes) and storage piles. These requirements apply to both nonhazardous and hazardous wastes, as indicated.

7.4.1 Drum Management

- If transported onsite, drums will be transported on wood pallets and secured together with nonmetallic bonding.
- Adequate aisle space (approximately 30 inches) will be provided for containers such as 55-gallon drums to allow the unobstructed movement of personnel and equipment. A row of drums will be no more than two drums wide.
- Each drum will be provided with its own label, and labels will be clearly visible.
- Drums will remain covered except when removing or adding waste to the drum. Covers will be properly secured at the end of each workday.
- Drums will be disposed of with the contents. If the contents are removed from the drums for offsite transportation and treatment or disposal, the drums will be decontaminated prior to reuse or before leaving the site.
- Secondary containment will be provided for drums containing liquid waste. Where available, drums containing liquid waste will be stored under cover to provide protection from the elements.

7.4.2 Portable Tank Management

- For hazardous wastes - only non-stationary (i.e., portable) tanks such as a cargo tank or wheeled tank will be used, and these tanks will be provided with secondary containment
- Tanks will be provided with covers
- Tanks will remain closed except when removing or adding waste to the drum. Covers will be properly secured at the end of each workday
- Each tank will be provided with its own label, and labels will be visible
- Tanks will not be located near a storm water inlet or conveyance

7.4.3 Roll-off Boxes

- Roll-off boxes will be inspected upon arrival onsite. Any roll-off containers arriving with contents or deterioration will be rejected.
- Roll-off boxes for contaminated or leaking materials will be provided with covers and disposable liners. Liners will be disposed of as contaminated debris.
- When not in use, securely fastened covers will be installed on all roll-off boxes.
- Old labels will be removed.
- Roll-off containers will be inspected by the transporter after removal of the liner and decontaminated in the event of evidence of liner failure.

7.4.4 Storage Pile Management

All storage piles established during site activities will be managed in a manner that maintains good housekeeping, prevents the spread of contamination, and minimizes the potential for wildlife entrapment. Contaminated materials will be accumulated in lined storage piles.

Management activities will include the following:

- Liners and covers will be minimum 6-mil reinforced plastic sheeting.
- Liners will be selected based on the characteristics of the materials to be stored.
- Piles will be covered as necessary to prevent storm water run-on and runoff.
- Storage piles may be located in buildings, in which case liners or covers would not be required. Damaged or leaking equipment will not be stored in storage piles.

7.4.5 Inspections

Waste accumulation and storage areas will be inspected for malfunctions, deterioration, discharges, and leaks that could result in a release of hazardous substances to the environment. Containers, tanks, roll-off containers, and transformers will be inspected at least weekly (for leaks, signs of corrosion, or signs of general deterioration).

Any deficiencies observed or noted during inspection will be immediately corrected. Appropriate measures may include transfer of waste from leaking container to new container, replacement of liner or cover, or repair of containment berm.

Inspections will be recorded. Any deficiencies and corrective actions will be documented. Copies of the report will be maintained onsite, and available for review.

7.4.6 Security and Contingency Planning

Emergency response radios, fire extinguishers, and decontamination equipment will be available at the waste storage areas. Spill control equipment (for example, sorbent pads) will be available in all waste storage areas and where liquids are transferred from one vessel to another. Any contaminated spill control devices (sorbent pads, booms, and other

equipment) will be characterized and placed in containers. The Health and Safety Plan identifies the specific emergency response procedures and equipment.

Waste storage areas will be secured and under CH2M HILL control. A barrier such as barricade tape or temporary fencing will be provided to prevent unauthorized access. Signs will be posted at storage areas identifying appropriate subcontractor personnel and emergency contact phone numbers.

7.5 Waste Transportation

7.5.1 Shipping Documentation

Prior to offsite disposal of any waste, a waste approval package for each waste stream will be prepared. This package will include a waste profile naming EPA as the generator of the waste, analytical summary table(s) applicable to the waste, a completed waste manifest, land disposal restriction (LDR) certification or notification for any hazardous wastes, and any other applicable information necessary for EPA to complete its review of the disposal package and signature as the generator.

The signed profile will then be submitted to the disposal facility for acceptance and approval. Once the approval letter is received from the disposal facility, transportation can be scheduled.

7.5.2 Manifest

Each load of waste material will be manifested prior to leaving the site. At a minimum, the manifest form will include the following information:

- Generator information including name, address, contact, and phone number, EPA ID number
- Transporter information including name, address, contact and phone number, EPA ID number
- Facility information including name, address, phone number, EPA ID number
- Site name including street/mailing address
- U.S. Department of Transportation (DOT) Proper Shipping Name (e.g., Hazardous Waste Solid, n.o.s., 9, UN 3077, PG III [D008])
- Type and number of container
- Quantity of waste (volumetric estimate)
- Task order or job number
- Profile number
- 24-hour Emergency phone number

Additionally, each shipment of waste will also have a weight ticket. A Land Disposal Restriction (LDR) Notification/Certification is also required for hazardous wastes. This form also requires the generator signature and submission to the disposal facility.

The generator and the transporter must sign the manifest prior to the load of waste leaving the site. The original signed manifest will be returned to the address of the generator.

If the signed hazardous waste manifest from the designated offsite facility is not received within 35 days, the generator must contact the transporter or the designated facility to determine the status of the waste. If the signed hazardous waste manifest has not been received within 45 days, the generator must issue an "Exception Report" to the State of West Virginia, as required under 40 CFR §262.42.

7.5.3 Land Disposal Restriction Notification

Under the RCRA Land Disposal Restriction (LDR) program, hazardous wastes that will be land disposed must meet certain treatment standards specified in 40 CFR §268.40 and §268.48. If a hazardous waste meets applicable treatment standards, in accordance with §268.7(a)(3) a signed certification stating that the waste meets the applicable treatment standards must be submitted to the disposal facility. For hazardous waste that does not meet applicable treatment standards, the treatment facility must be notified in writing (§268.7(a)(2)). This certification or notice accompanies the manifest. CH2M HILL will prepare the LDR notification or certification form for EPA signature for all hazardous waste.

7.5.4 DOT Requirements

Requirements under 49 CFR 171 will apply to all offsite shipments of hazardous materials. The definition of hazardous materials includes hazardous wastes. All DOT functions will be performed by personnel trained under HM 171 (DOT requirements). The information contained in this section is provided as a general guide. Requirements specific to each hazardous material will be determined in the field. It is the responsibility of each DOT-trained individual to ensure that the requirements of 49 CFR 171 are met.

7.5.4.1 Shipping Name

Material that does not exhibit one of the nine DOT hazard class characteristics (for example, explosive, flammable, poison, combustible) is not regulated under DOT rules for the transportation of hazardous material. If material is suspected to be hazardous, it will be shipped under the suspected hazard class. If a particular hazard class is unable to be determined, the material may be shipped under either of the following hazard classes if it is not suspected of meeting a higher hazard class (for example, flammable, corrosive):

TABLE 7-3
Shipping Name
Work Plan for the Demolition of Buildings at the Former Eagle Zinc Facility

Shipping Name	Hazard Class	ID Number	Packing Group	Label
Hazardous waste, liquid, n.o.s.	9	UN3082	III	CLASS 9
Hazardous waste, solid, n.o.s.	9	UN3077	III	CLASS 9

When using either one of these n.o.s.-shipping names, up to two technical names will follow (for example, hazardous waste, liquid, n.o.s., benzene and acetone).

Each shipment of a suspected hazardous material will be properly classified using the Hazardous Materials Table in 49 CFR 172.101. All determinations will be made by DOT-trained personnel. Marking and labeling requirements are also included in the Hazardous Materials Table.

7.5.4.2 Packaging, Marking, and Labeling

The shipping name, hazard class, identification number, technical names (if applicable), EPA markings and waste code numbers, and consignee/consignor designations will be marked on packages for shipment (49 CFR 172.301). Once the waste is characterized, reference will be made to the Hazardous Materials Table in 49 CFR 172.101 to determine the appropriate label. Specific hazardous material packaging requirements can be obtained from CH2M HILL's online Dangerous Goods manual.

7.5.4.3 Placards

Appropriate placards will be determined by DOT-trained personnel. Specific placard descriptions are found starting at 49 CFR 172.521. If a placard is required, it will be affixed on each side and each end of the vehicle.

7.5.5 Spill Reporting

In the event of a spill or release of waste, the transporter must immediately notify CH2M HILL. The following information about the spill will be reported to CH2M HILL and recorded:

- Type of material (for example, soil, sludge, or water) and contaminant
- Location
- Estimated volume
- Media affected (for example, spilled on concrete pad or soil)
- Time of spill/release
- Final disposal of spilled material

The transporter will also report any spill or release of hazardous waste, as required by 49 CFR 171.15, to the National Response Center (NRC) at 800-424-8802 or 202-426-2675. The transporter will also report in writing, as required by 49 CFR 171.16, to the Director, Office of Hazardous Materials Regulations, Materials Transportation Bureau, Department of Transportation, Washington, D.C. 20590.

For any spill of hazardous wastewater from a bulk shipment (for example, tanker), the transporter will immediately notify the NRC (800-424-8802 or 202-267-2675), as required in 40 CFR 263.30.

7.5.6 Spill Response

The transporter will clean up any spill or release of waste (including soil or water) that occurs during transportation, or take such action as may be required or approved by federal, state, or local officials. Spilled waste will be immediately cleaned up, including soils on the outside of the trucks or other container (for example, rail car) and on the ground or road surface. Where appropriate, the spilled material (for example, soil) will be returned to the original waste container. In any case, the spilled material will be properly contained and disposed.

7.6 Treatment and Disposal

7.6.1 Offsite Treatment and Disposal

Offsite treatment or disposal facilities will use the Waste Profile Form and supporting documentation (for example, analytical data) to determine whether a waste will be accepted. The following is a summary of wastes and their anticipated treatment or disposal locations:

7.6.1.1 Hazardous wastes

Hazardous waste that meets the LDR treatment standards will be transported to a permitted hazardous waste facility for direct disposal.

If hazardous wastes do not meet the LDR treatment standards, these wastes will be sent to an offsite facility for treatment and disposal. In some cases, the waste will be incinerated, in others the waste may be stabilized or otherwise treated to meet the LDR standards and then land disposed.

All facilities that receive hazardous waste for treatment (incineration or other treatment) and/or disposal will be permitted under RCRA Subtitle C.

7.6.1.2 Universal wastes

Universal wastes will be sent to a "destination facility," as follows:

- A hazardous waste treatment, storage, or disposal facility permitted under RCRA Subtitle C; or
- A recycling facility that recycles the universal waste without storing that waste before it is recycled, and complies with 40 CFR 261.6(c)(2)

7.6.1.3 Non-hazardous Solid Wastes

Non-hazardous or municipal solid wastes will be disposed at a permitted RCRA Subtitle D facility.

7.6.1.4 Used/Waste Oils and Filters

Used oils, waste oils, and filter will be sent to recycling facility that meets the requirements of 40 CFR 279.

7.6.1.5 Asbestos Waste

Asbestos will be disposed in a landfill that is permitted by ILEPA under 225 ILCS 207.

7.6.1.6 PCB Waste

7.7.2.6.1 Ballasts

Ballasts that contain ≥50-ppm PCBs in the potting material or any ballast that contain a non-intact or leaking capacitors must be transported with a Uniform Hazardous Waste Manifest (EPA Form 8700-22 or state equivalent) and disposed offsite as PCB bulk product waste:

- In a incinerator approved under TSCA
- In a chemical waste landfill approved under TSCA

Ballasts that contain material is <50 ppm PCBs in the potting material and 1) no PCB small capacitor, 2) an intact, non-leaking PCB small capacitor, or 3) a capacitor marked as "No PCBs" will be transported with a non-hazardous waste manifest to an approved facility.

7.7.2.6.2 Small Capacitors

- Intact and non-leaking small capacitors by themselves, regardless of date of manufacture or PCB concentration, may be transported without a Uniform Hazardous Waste Manifest and disposed as municipal solid waste. At a minimum they will be transporter using a non-hazardous manifest.
- Non-intact or leaking capacitors must be transported with a Uniform Hazardous Waste Manifest (EPA Form 8700-22 or state equivalent) and disposed as PCB bulk product waste:
  - In a incinerator approved under TSCA
  - In a chemical waste landfill approved under TSCA

7.7.2.6.3 Transformers

- Transformers that contain ≥50 ppm PCBs must be transported with a Uniform Hazardous Waste Manifest (EPA Form 8700-22 or state equivalent) to an offsite commercial storer, recycler, or treatment facility that is approved under TSCA.
- Transformers that contain < 50 ppm PCBs may be disposed as non-hazardous waste.

7.7.2.6.4 PCB Oil

- PCB oils at concentrations ≥50 ppm:
  - Must be disposed of in an incinerator approved under TSCA, except that PCB liquids at concentrations ≥50 ppm and <500 ppm may be disposed of a high efficiency boiler approved under TSCA.
  - Must be transported with a Uniform Hazardous Waste Manifest (EPA Form 8700-22 or state equivalent).
- PCB oils at concentrations ≥2 ppm but <50 ppm PCBs will be disposed at a facility permitted to accept such waste, but does not need to be TSCA-approved.

- PCB oils with <2 ppm PCBs are not regulated under TSCA for disposal. These oils will likely be recycled if present.

7.6.1.7 Smoke Detectors and Exit Signs

Smoke detectors with Am-241 radioactive sources and Exit signs will be returned to the manufacturer. Table 11-3 provides smoke detector return information. Smoke detectors that do not contain Am-241 radioactive sources will be disposed offsite as solid waste. Disposal of the broken sign will be arranged through the manufacturer or a health physics consultant.

According to 49 CFR 173.424, packages of smoke detectors (Am-241) and exit signs (tritium) do not require specific packaging, shipping papers, markings, or labeling. However, a packing slip or notice will be enclosed on or in the package that states:

"This package conforms to the conditions and limitations specified in 49 CFR 173.424 for radioactive material, excepted package-instruments or articles, UN2910."

The package will also bear the name and address of both the consignor (i.e., the name of the person offering the package for transport) and consignee. Packaging will be sturdy, sealed, and contain sufficient packaging material to protect the smoke detectors from damage during transport.

7.6.1.8 C&D Debris

Non-hazardous or uncontaminated concrete and brick will be crushed and placed into the onsite cell. Any hazardous debris will be removed for disposal off-site.

7.7 Training

The following subsections detail the training requirements for personnel associated with hazardous waste operations. The training requirements are applicable to both CH2M HILL and Subcontractor personnel.

7.7.1 Hazardous Waste Operations

Requirements for Hazardous Waste Operations (HAZWOPER) and other training of onsite personnel, including Subcontractors, are described in the HSP.

7.7.2 Waste Management

All onsite personnel, including Subcontractors, involved in waste-handling activities will be trained in those activities. All CH2M HILL personnel performing waste management activities will complete the in-house online Waste Management Training course, or its equivalent, in compliance with RCRA hazardous waste generator training requirements (40 CFR 265.16).

7.7.3 DOT Training Requirements

Each individual performing a DOT function must be properly trained. DOT training requirements apply to any personnel who select packaging; prepare hazardous materials for

transportation; are responsible for safety of the transportation of hazardous materials; load, unload, or handle hazardous materials; test, re-condition, repair, modify, mark, or otherwise represent containers as qualified for use in transporting hazardous materials; or operate a vehicle used to transport hazardous materials (49 CFR 172.702).

All hazardous material (HAZMAT) personnel must receive "general awareness training" to become familiar with DOT regulation requirements and recognition/identification of hazardous materials consistent with DOT hazardous materials communication standards. All HAZMAT personnel must also receive safety training on DOT emergency response communications (49 CFR 172, Subpart G), how to protect themselves from the hazards of the materials if exposed, and methods and procedures for avoiding accidents involving hazardous materials. In addition, each employee must be trained as appropriate to his or her specific job duties (function-specific training).

HAZMAT employees must be re-trained every 3 years. Re-training may occur any time before expiration of the 3-year period, but not after the 3-year anniversary date of the most recent previous training.

Training records must be kept for the preceding 3 years for current employees and for 90 days after any employee leaves. Records must include the following information:

- Employee's name
- Date of most recent training
- Description, copy, or location of training materials used
- Name and address of person performing the training
- Certification of successful completion of training

7.8 Records and Reporting

The following records and documents will be maintained:

- Transportation and offsite disposal records, including:
  - Profiles and associated characterization data
  - Manifests, Land Disposal Restriction Notifications/Certifications, bills of lading, and other shipping records
  - Offsite facility waste receipts and certificates of disposal/destruction
- Training records
- Inspection records

CH2M HILL will maintain material data safety sheets (MSDSs) for chemicals and/or hazardous materials brought onsite, including the MSDSs for chemicals brought onsite by Subcontractors. Subcontractors will maintain similar records for all onsite activities.

8.0 Re-Use/Recycling Workplan

One of the key elements of any demolition project is the offsite disposal or recycling of the waste streams that are generated as a result of the demolition process. Depending on client specific requirements and desires many options are available. The table presented below lists the typical materials that are available from a demolition project and the outlets for offsite processing.

TABLE 8-1
Typical Materials Available from Demolition
Work Plan for the Demolition of Buildings at the Former Eagle Zinc Facility

Material to be Recycled	Recycle Options Typical in the Industry
Useable Equipment	Sell directly or wholesale to third party
Useable Structural Steel & Piping	Sell directly or wholesale to third party
Useable Timbers	Sell directly or wholesale to third party
Scrap Steel, Re-bar and Iron	Deliver and sell to scrap processor
Non-Ferrous Materials (copper, aluminum, titanium, etc) and Stainless Steel	Deliver and sell to scrap processor
Concrete – Unprocessed	Deliver to outside crushing plant for processing and sale to third party
Concrete – Processed on-site	Use in site grading or sell to third party
Brick	Deliver and sell to brick dealer
Clean Wood – unsuitable for re-sale	Deliver to outside shredding operation
Abandoned Materials Used at Plant	Deliver and wholesale to third party

It may not be feasible to re-sale anything on the site due to safety considerations. In such cases, items are taken to an outside yard area for final disposition.

8.1 Reuse/Recycling Evaluation

During Phase I field activities, construction materials for facilities slated for demolition were evaluated to determine potential reuse/recycling options and determine the most beneficial handling of the materials. Two waste streams were identified as providing reuse/recycling value:

- Scrap Steel and Iron
- Concrete and Brick

Scrap steel and iron will be generated during the demolition of buildings, equipment, tanks and piping. Scrap metal quantities will be requested during the demolition bidding process. Options for concrete and brick include off-site landfilling, off-site recycling or on-site crushing. Landfilling costs range from $40 - $50/ton. Off-site recycling may require that

concrete and brick is segregated, concrete sized to meet off-site recycling facility requirements, material loaded and shipped to receiving facilities. Typically concrete recycler charge $300 to $400/roll-off container to receive the concrete. Assuming 20 tons/roll-off, the recycling cost ranges from $15 to $20/ton, plus transportation. Costs for on-site crushing of the material typically range from $8 to $10/ton. This option does not require complete segregation of the material and provides an end product that can be used on-site as backfill material.

8.2 Material Staging and Loading for Demolition Debris

Depending on sampling results, material resulting from demolition debris will be placed in the consolidation cell or the debris will be loaded directly into containers for offsite disposal.

8.2.1 Salvageable Equipment and Materials

These items are usually removed and stored either on site or delivered directly to their outside destination. Temporary on-site storage should be clear of any subsequent demolition operations.

8.2.2 Scrap Steel and Iron and Equipment

These materials are usually accumulated at a yard area isolated from the continuing operation. In this area secondary processing is done to meet the requirements of the scrap buyer.

8.2.3 Scrap - Non-ferrous Materials

Because of their relatively high value, it is desirable to store them in a secure area and deliver them as a load is accumulated.

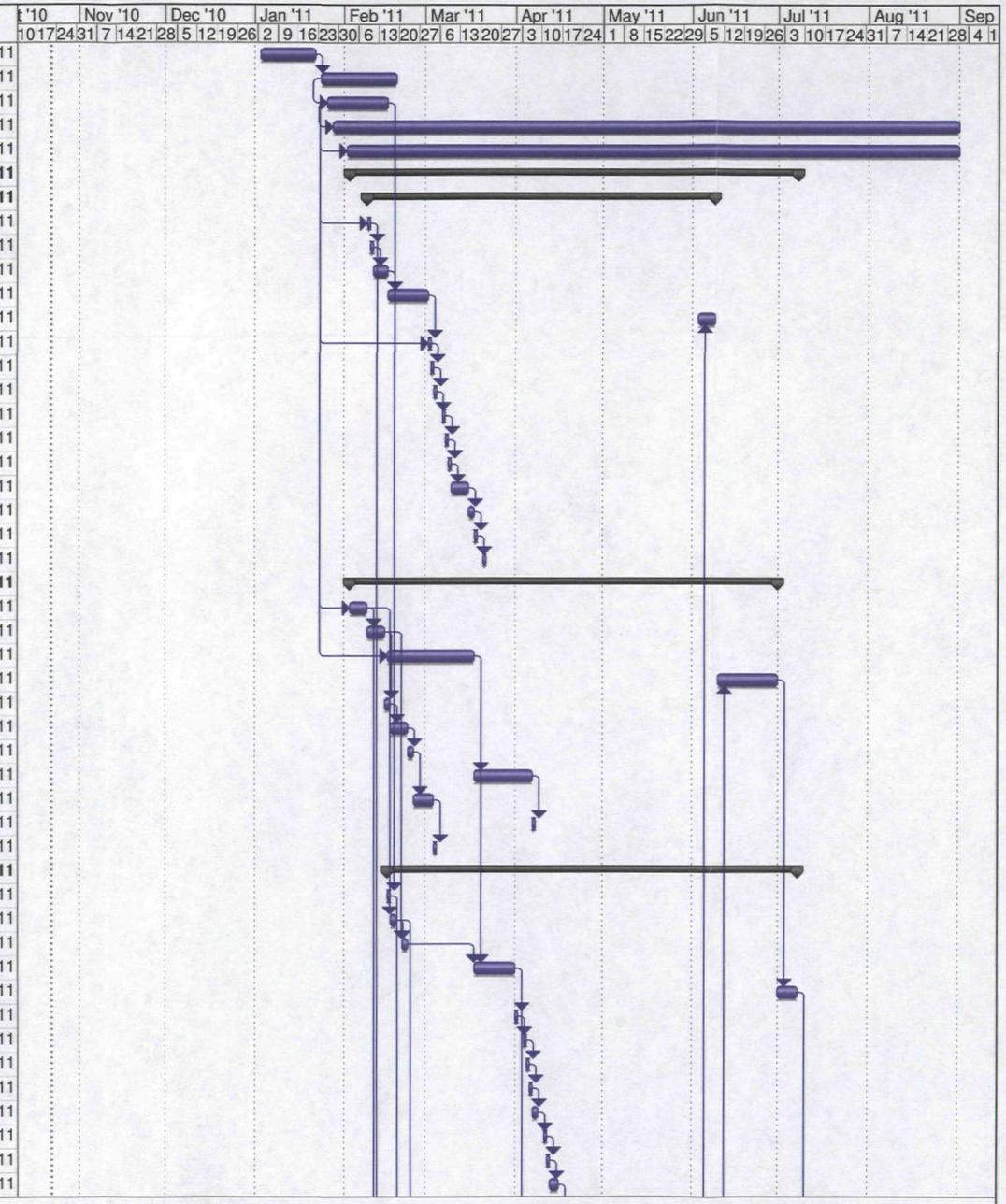
8.2.4 Concrete, Brick and Asphalt

Material will be sampled prior to placement in the onsite consolidation cell or loaded into roll-off containers for off-site disposal.

9.0 Project Implementation Schedule

The draft project implementation schedule is presented below.

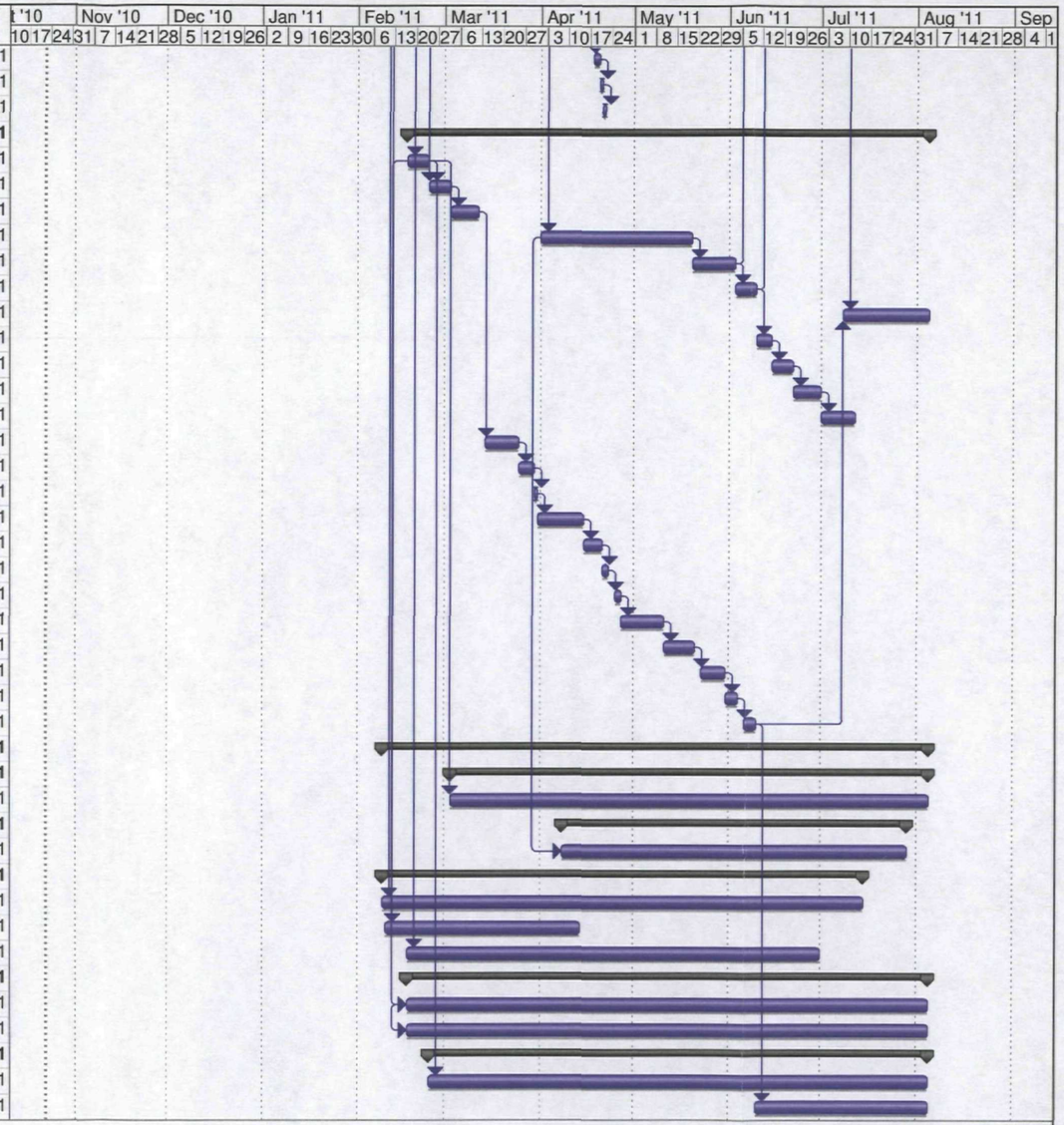
ID	Task Name	Duration	Start	Finish
1	Plans, Submittals and Procurement	15 days	Mon 1/3/11	Fri 1/21/11
2	Mobilization	20 days	Mon 1/24/11	Fri 2/18/11
3	Support Facility Set Up	15 days	Wed 1/26/11	Tue 2/15/11
4	Erosion Control/BMP	154 days	Fri 1/28/11	Wed 8/31/11
5	Perimeter Air Monitoring & Dust Control	151 days	Wed 2/2/11	Wed 8/31/11
6	**Decontamination**	**111 days**	**Thu 2/3/11**	**Thu 7/7/11**
7	**Universal Waste Removal**	**86 days**	**Wed 2/9/11**	**Wed 6/8/11**
8	Building A	1 day	Wed 2/9/11	Wed 2/9/11
9	Building B	1 day	Thu 2/10/11	Thu 2/10/11
10	Building C	3 days	Fri 2/11/11	Tue 2/15/11
11	Building D	10 days	Wed 2/16/11	Tue 3/1/11
12	Building E	4 days	Fri 6/3/11	Wed 6/8/11
13	Building F	1 day	Wed 3/2/11	Wed 3/2/11
14	Building G	1 day	Thu 3/3/11	Thu 3/3/11
15	Building I	1 day	Fri 3/4/11	Fri 3/4/11
16	Building J	1 day	Mon 3/7/11	Mon 3/7/11
17	Building K	1 day	Tue 3/8/11	Tue 3/8/11
18	Building L	1 day	Wed 3/9/11	Wed 3/9/11
19	Building M	4 days	Thu 3/10/11	Tue 3/15/11
20	Building N	2 days	Wed 3/16/11	Thu 3/17/11
21	Building O	1 day	Fri 3/18/11	Fri 3/18/11
22	Building P	1 day	Mon 3/21/11	Mon 3/21/11
23	**Asbestos Abatement**	**106 days**	**Thu 2/3/11**	**Thu 6/30/11**
24	Building B	4 days	Thu 2/3/11	Tue 2/8/11
25	Building C	4 days	Wed 2/9/11	Mon 2/14/11
26	Building D	22 days	Wed 2/16/11	Thu 3/17/11
27	Building E	15 days	Fri 6/10/11	Thu 6/30/11
28	Building H	2 days	Tue 2/15/11	Wed 2/16/11
29	Building K	4 days	Thu 2/17/11	Tue 2/22/11
30	Building L	2 days	Wed 2/23/11	Thu 2/24/11
31	Building M	14 days	Fri 3/18/11	Wed 4/6/11
32	Building N	5 days	Fri 2/25/11	Thu 3/3/11
33	Building O	1 day	Thu 4/7/11	Thu 4/7/11
34	Building P	1 day	Fri 3/4/11	Fri 3/4/11
35	**Building Material Decontamination**	**102 days**	**Wed 2/16/11**	**Thu 7/7/11**
36	Building A	1 day	Wed 2/16/11	Wed 2/16/11
37	Building B	2 days	Thu 2/17/11	Fri 2/18/11
38	Building C	2 days	Mon 2/21/11	Tue 2/22/11
39	Building D	10 days	Fri 3/18/11	Thu 3/31/11
40	Building E	5 days	Fri 7/1/11	Thu 7/7/11
41	Building F	1 day	Fri 4/1/11	Fri 4/1/11
42	Building G	1 day	Mon 4/4/11	Mon 4/4/11
43	Building H	1 day	Tue 4/5/11	Tue 4/5/11
44	Building I	1 day	Wed 4/6/11	Wed 4/6/11
45	Building J	2 days	Thu 4/7/11	Fri 4/8/11
46	Building K	1 day	Mon 4/11/11	Mon 4/11/11
47	Building L	1 day	Tue 4/12/11	Tue 4/12/11
48	Building M	3 days	Wed 4/13/11	Fri 4/15/11



Project: 403933 Eagle Zinc_Demolition
Date: Fri 10/22/10

Task		Milestone		External Tasks	
Split		Summary		External Milestone	
Progress		Project Summary		Deadline	

ID	Task Name	Duration	Start	Finish
49	Building N	2 days	Mon 4/18/11	Tue 4/19/11
50	Building O	1 day	Wed 4/20/11	Wed 4/20/11
51	Building P	1 day	Thu 4/21/11	Thu 4/21/11
52	**Demolition**	**121 days**	**Thu 2/17/11**	**Thu 8/4/11**
53	Building A	5 days	Thu 2/17/11	Wed 2/23/11
54	Building B	5 days	Thu 2/24/11	Wed 3/2/11
55	Building C	7 days	Thu 3/3/11	Fri 3/11/11
56	Building D	35 days	Fri 4/1/11	Thu 5/19/11
57	Building E (partial demolition)	10 days	Fri 5/20/11	Thu 6/2/11
58	Building E (hazardous materials survey)	5 days	Fri 6/3/11	Thu 6/9/11
59	Building E (complete demolition)	20 days	Fri 7/8/11	Thu 8/4/11
60	Building F	3 days	Fri 6/10/11	Tue 6/14/11
61	Building G	5 days	Wed 6/15/11	Tue 6/21/11
62	Building H	7 days	Wed 6/22/11	Thu 6/30/11
63	Building I	7 days	Fri 7/1/11	Mon 7/11/11
64	Building J	9 days	Mon 3/14/11	Thu 3/24/11
65	Building K	3 days	Fri 3/25/11	Tue 3/29/11
66	Building L	1 day	Wed 3/30/11	Wed 3/30/11
67	Building M	11 days	Thu 3/31/11	Thu 4/14/11
68	Building N	4 days	Fri 4/15/11	Wed 4/20/11
69	Building O	2 days	Thu 4/21/11	Fri 4/22/11
70	Building P	2 days	Mon 4/25/11	Tue 4/26/11
71	Smoke Stack	10 days	Wed 4/27/11	Tue 5/10/11
72	Cooling Tower	8 days	Wed 5/11/11	Fri 5/20/11
73	Duct Conveyor (btwn Klin Bldg & Fan Bldg)	6 days	Mon 5/23/11	Mon 5/30/11
74	AST & Foundation (1)	4 days	Tue 5/31/11	Fri 6/3/11
75	AST & Foundation (2)	4 days	Mon 6/6/11	Thu 6/9/11
76	**Disposal**	**127 days**	**Wed 2/9/11**	**Thu 8/4/11**
77	**Recycle Material - Off-site Disposal**	**111 days**	**Thu 3/3/11**	**Thu 8/4/11**
78	Process Recycle Materials	111 days	Thu 3/3/11	Thu 8/4/11
79	**Equipment Salvage - Off-site Disposal**	**80 days**	**Fri 4/8/11**	**Thu 7/28/11**
80	Equipment Salvage	80 days	Fri 4/8/11	Thu 7/28/11
81	**Waste Disposal - Off-site Disposal**	**112 days**	**Wed 2/9/11**	**Thu 7/14/11**
82	Asbestos - T&D	112 days	Wed 2/9/11	Thu 7/14/11
83	Universal Waste - T&D	45 days	Thu 2/10/11	Wed 4/13/11
84	Hazardous Waste - T&D	96 days	Thu 2/17/11	Thu 6/30/11
85	**C&D Waste Disposal - On-site**	**121 days**	**Thu 2/17/11**	**Thu 8/4/11**
86	Processed C&D Waste - On-site Landfill	121 days	Thu 2/17/11	Thu 8/4/11
87	Un-processed C&D Waste - On-site Lan	121 days	Thu 2/17/11	Thu 8/4/11
88	**Restoration/Demobilization**	**116 days**	**Thu 2/24/11**	**Thu 8/4/11**
89	Restoration	116 days	Thu 2/24/11	Thu 8/4/11
90	Demobilization	40 days	Fri 6/10/11	Thu 8/4/11



Project: 403933 Eagle Zinc_Demolition
Date: Fri 10/22/10

Task		Milestone		External Tasks	
Split		Summary		External Milestone	
Progress		Project Summary		Deadline	

10.0 Demobilization and Closure Plan

Following the decommissioning and demolition, the various sites will be restored. Restoration activities include the following:

- The remaining concrete foundations will be cleaned of fine demolition debris.
- The ground at and around demolished structures will be graded to match the existing grade and to minimize the channeling of water and subsequent erosion. Crushed material will be use to stabilize these areas.
- Existing roads, driveways, sidewalks, and pad foundations will be left in place.
- Debris and trash will be removed.

Following the completion of all activities at each facility (demolition, removal of debris, revegetation, and cleanup) a final site walk-through will occur with EPA, Subcontractor, and other representatives as applicable. The site walk-through may result in a punchlist of action items. Once the punchlist work is completed at each facility, a re-inspection will be conducted and the date noted, followed by signatures of Subcontractor and EPA personnel documenting that the work at the facility has been completed.

The Subcontractor will submit the Final Report for Decommissioning and Demolition to EPA after completion of the project activities. The Final Report will include information that demonstrates that the decommissioning and demolition objectives were met. Quantities of hazardous waste, non-hazardous waste, recyclable materials, and other such items will be included in the report. Listing of facilities and equipment removed has been given to accounting department.

Appendix A

Asbestos, Lead-Based Paint and Universal Waste Survey Report Results.

Hazardous Materials Survey Report

Eagle Zinc Superfund Site
OU1 – Building Demolition
Hillsboro, Illinois

Prepared for:

CH2M Hill
1034 S. Brentwood Blvd., Suite 2300
St. Louis, MO 63117

Prepared by:

Environmental Design International, inc.
33 W. Monroe Street
Suite 1825
Chicago, Illinois 60603
EDI Project No. 1515.017

Approved for Release October 2010 DRAFT By:

Patricia Feeley, P.G.
Senior Project Manager

Gary P. Flentge, MPH, LEHP, REA
Principal Environmental Health Professional

Environmental Design International inc.

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fax: 312.345.0529
www.envdesigni.com

October 18, 2010

Ms. Lisa Cundiff
CH2M Hill
1034 S. Brentwood Blvd., Suite 2300
St. Louis, MO 63117

Subject: **Hazardous Materials Survey Report**
Eagle Zinc Superfund Site
OU1 – Building Demolition
Hillsboro, Illinois
EDI Project Number: 1515.017.03

Dear Ms. Cundiff:

Enclosed please find two hard copies of the Hazardous Materials Survey Report for OU1 of the Eagle Zinc Site in Illinois. Please feel free to call me at (312) 345-1400 extension 136 or Mr. Gary Flentge at extension 143 for any assistance. Thank you.

Respectfully,

Environmental Design International, inc.

Patricia Feeley, P. G.
Senior Project Manager

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Appendix A: ACM and LBP Inspector Licenses and Certifications

Appendix B: Photograph Log

Appendix C: ACM Laboratory Results with Chain-of Custody Forms and Laboratory Accreditation

Appendix D: LBP Sample Log Sheets

Appendix E: Residual Data Sheets and Results Table from CRL

Executive Summary

Environmental Design International inc. (EDI) was retained by CH2M Hill under purchase order number 938882 as part of Remedial Design work for the United States Environmental Protection Agency (USEPA). EDI was asked to evaluate the site and collect samples to determine building components that would need to be handled as hazardous waste during building demolition.

The field survey was conducted from August 23 through August 27, 2010, by Mr. Jose Aguilera, an IDPH-licensed Asbestos Inspector ID# 100-10088, Ms. Kristen Templin, an IDPH-licensed Asbestos Inspector ID# 100-18364, Mr. Paul Kybartas, an IDPH-licensed Asbestos Inspector ID# 100-08451 and IDPH-licensed Lead Risk Assessor ID# 006379, and Ms. Patricia Feeley.

Background

The site is an abandoned industrial plant in a mixed industrial/commercial/residential area in Hillsboro, Montgomery County, Illinois. See attached Site Location Map. There are about 23 buildings onsite that were previously used for facility operations; the types of buildings include offices, laboratories, manufacturing/processing, equipment/raw material/finished product storage, bag houses and maintenance facilities. The buildings and site have been abandoned for many years. The site is fenced and the gate is locked. The buildings are in various states of deterioration, some buildings have collapsed ceilings or partial walls.

The USEPA has divided the site into two operable units (OUs) to effectively deal with the short term risks, lead in buildings, the long term risks, and contaminated soil and groundwater on-site. This Remedial Design is focused on OU-1, targeting building demolition. The selected remedy for OU-1 consists of the following components:

- Building demolition – all buildings and associated above ground structures on-site will be removed via controlled demolition
- Asbestos containing material (ACM) and hazardous materials survey for disposal will be conducted and include universal wastes, PCB-containing devices, and lead-based paint (LBP) coated materials. ACM, universal wastes, and PCB-containing devices will be properly removed and disposed of off-site. LBP-coated debris will be evaluated for proper disposition. For example, LBP on metal will not be removed but recycled in total as scrap metal.
- Recycling - Salvageable material will be recycled or reused. Proceeds from recycling will be used to off-set the cost of the remedy.
- Putrescible wastes or unsalvageable materials will be characterized and properly disposed of off-site.
- On-site consolidation - Remaining debris will be consolidated and placed in the southwest corner of the site.
- Soil cover – a one-foot soil cover will be placed as a barrier over the contaminated building debris consolidated on-site

In preparation to perform the requested scope of work, CH2M Hill and EDI collaborated to prepare Site Specific Plans for approval by USEPA. A Quality Assurance Project Plan (QAPP), a Field Sampling Plan (FSP), and a Health and Safety Plan (HASP) were submitted and approved by USEPA. The hazardous materials survey included a building survey of asbestos containing materials (ACM), lead-based paint (LBP), and residuals on building components. The FSP identified the sampling methods and approach for the environmental survey.

Asbestos Containing Materials Survey

The EDI inspection team performed a visual survey to identify suspect ACM in accessible areas of the buildings. The ACM survey did not include areas that were not visible or accessible due to collapsed ceilings, structurally unsound buildings, other safety or security issues, or that were behind walls or otherwise inaccessible. The Site Layout figure identified Buildings A through P for the survey.

The following materials were determined to be ACM and are assumed ACM for all the buildings:

- Roofing materials
- Window paper covering, caulks and glazings, and door caulks.

These ACM building components were generally in poor condition and spread around the foot print of the building. Asbestos abatement design and planning must consider the impact of non-intact ACM. These materials would be considered Category I non-friable asbestos.

Other ACMs were building specific and included pipe insulation, floor tiles, mastics, and transite.

- Building C (north wall center) – pipe sealant
- Building H2 – air cell pipe insulation
- Building L1 – lab tops
- Building M (garage engineer office west) – air cell thermal system insulation
- Building M (break room) – transite ceiling
- Building N (office) – tan, brown, and grey floor tile and mastic
- Building N (office) – transite ceiling panels

These ACM building components were generally intact and in the interior of the buildings. The ACM is generally in poor condition. The ACMs are Category II friable and require abatement in containment prior to demolition.

ACM must be abated by an IDPH-licensed contractor using IDPH-licensed supervisors and workers, prior to building demolition. A site-specific asbestos abatement design is recommended and should be prepared under the direction of an IDPH-licensed asbestos project designer.

- Abate ACM noted pipe insulation, transite (ceiling and lab tops), and floor tile with mastic. However, Building N should be further assessed for mercury contamination on the building

interior prior to abatement activities.

- All ACM's abated from Eagle Zinc shall be transported in a manor consistent with local and federal regulations.
- All ACM abated from Eagle Zinc shall be disposed of in an approved landfill or disposal facility in a manor consistent with local and federal regulations. A copy of the disposal documentation signed by a landfill or disposal facility representative shall be included in the final abatement report submitted to the USEPA by the abatement contractor within 30 days of completing abatement.

Lead-Based Paint Survey

The LBP survey was conducted using an x-ray fluorescence (XRF) analyzer, an Innov-X Alpha series 4000 XRF Analyzer. The XRF analyzer was used on interior and exterior painted surfaces. Painted surfaces that indicate a lead concentration of equal to or greater than 1.0 mg/cm^2 of surface area are considered to be LBP as defined by HUD. Painted surfaces throughout several buildings were observed to be in poor condition with significant areas of peeling paint.

The following building components were found to contain LBP:

- Concrete and brick surfaces (interior and exterior);
- Wood doors and frames, and other wood surfaces;
- Plaster surface in Building L1;
- Various metal building and production components.

Painted surfaces had positive and negative XRF results. Not all concrete, brick, wood, plaster or metal surfaces had LBP. In general, some common characteristics for positive LBP results included the following:

- Grey paint across the buildings (A, B, C, D, I, J, M, and P) had positive lead content.
- White paint across the building tested more than 50% positive for lead (suspect paint that should be checked).
- Peeling white paint in Building D1 production area is presumed to be LBP based on positive lead readings for the paint at the bottom of the board walk.
- Red paint in buildings B, D1, and F1 tested positive for lead. Other paint colors had mixed positive and negative lead results.
- Concrete and cinder block (Building C) had positive lead readings.

Workers who handle LBP coated building components must be protected from exposure following OSHA regulations. LBP building components may not require remedial or mitigation during demolition. Measures for dust control should be in place prior to demolition activities. However, recycling activities may require remedial action or mitigation, in order to recycle concrete or brick. Remedial action or mitigation may include scraping and removal of residual and dust and a washing to remove contaminants from recyclable material.

The survey focused on building materials that will be removed as part of demolition and will be recycled or handled on site. Sampling to determine hazardous characteristics is required to

determine best practices for the recycling of the material or the disposal of the material: on-site or off-site. Peeling paints were found to be present extensively in Building D and the peeling paint is presumed to be LBP, flaking paints present a potential dust hazard during demolition of the buildings. Lead paint chips and dust should be managed and minimized during all demolition activities. Product residuals, dust and paint chips should be collected and containerized for proper removal and disposal.

The estimated quantities of LBP on building demolition components are not included herein. Further discussion and review of demolition and disposal options are required to provide useable estimated quantities that are pertinent to project progression. Additional field quantification should be provided for LBP based on remedial action decisions that will require LBP abatement, versus allow LBP to remain on components for disposal on-site and/or off-site.

Residuals Survey

The buildings have residual product, waste and/or dust throughout the interior and exterior of the buildings. A sample of residual product or waste was collected from various building components. For example, production kilns and product storage were identified throughout Buildings C, D1, I, and J. The demolition of these buildings will disturb and impact the product or waste materials remaining in the building and adhering to production elements, walls, floors, and ceilings.

Residual product and brick in Buildings B, C, D1, and P1 had lead concentrations exceeding the Toxicity Characteristic. Samples of white product from Building D at the north end in the production area, had TCLP of 6 mg/L and 22.7 mg/L. Two of the three white product samples collected from this area were above the Toxicity Characteristic for lead.

The other TCLP metal results did not identify arsenic in the samples tested. High levels of zinc were observed in the total and TCLP sample results. Cadmium TCLP results were reported at levels exceeding the Toxicity Characteristic of 1.0 mg/L in several samples. White product samples from Building D were identified at 3.47 mg/L cadmium and 12.8 mg/L cadmium, both exceeding Toxicity Characteristics.

In summary, the residual product (and product adhered to building materials) should be considered a hazardous waste (based on TCLP lead and cadmium results). The residual product should be collected and disposed as hazardous waste on-site or off-site as appropriate. The building materials, including brick and concrete, will be further sampled to identify if the hazardous characteristic is only on the surface of the material or if the metals have penetrated the material. The additional sampling will determine if the brick or concrete en mass should be considered hazardous or non-hazardous waste. Concrete and brick identified as non-hazardous can be disposed and buried on site. These materials would require some level of abatement or decommissioning to remove the hazardous dust or residuals on the surface. Materials should be tested for TCLP lead and cadmium at a minimum.

Existing thermostats should be checked or removed prior to demolition activities. Existing thermostats or thermometers were observed in the production buildings and may contain mercury. Existing lighting ballasts are located throughout the buildings and accessible ballasts were viewed for labels. Labels on ballasts indicated non-PCB containing lighting. Lighting ballasts, not labeled, should be assumed to contain PCBs or tested prior to demolition to confirm non-PCBs containing. Universal wastes throughout the buildings should be handled in accordance with IAC Title 35 Part 733.

.

1.0 Introduction

Environmental Design International inc. (EDI) was retained by CH2M Hill under purchase order number 938882 as part of Remedial Design work for the United States Environmental Protection Agency (USEPA). EDI was asked to evaluate the site and collect samples to determine building components that would need to be handled as hazardous waste during building demolition.

The field survey was conducted from August 23 through August 27, 2010, by Mr. Jose Aguilera, an IDPH-licensed Asbestos Inspector ID# 100-10088, Ms. Kristen Templin, an IDPH-licensed Asbestos Inspector ID# 100-18364, Mr. Paul Kybartas, an IDPH-licensed Asbestos Inspector ID# 100-08451 and IDPH-licensed Lead Risk Assessor ID# 006379, and Ms. Patricia Feeley,. Licenses and certifications are provided in Appendix A.

1.1 Project Purpose and Background

The site is an abandoned industrial plant in a mixed industrial/commercial/residential area in Hillsboro, Montgomery County, Illinois. See attached Site Location Map. The site is approximately 132 acres, with about 30 acres of buildings and associated structures. There are about 23 buildings onsite that were previously used for facility operations; the types of buildings include offices, laboratories, manufacturing/processing, equipment/raw material/finished product storage, bag houses and maintenance facilities. Also located on site are railroad spurs, residual material, two storm water retention ponds, a small pond and several roads. Active industrial operations ceased in 2003. The area has been zoned commercial/industrial. See Figure 2 for Site Layout Map, which identifies the Buildings as A through P.

Previous investigations have taken place since the early 1980's. The initial Remedial Investigation started in 2001 and a draft RI Report was produced in 2005. The previous investigations show multiple residue piles throughout the site that exceed screening levels. The contaminants of concern on site include lead and cadmium. Other contaminants on-site include copper, zinc, and manganese. In 2008, the buildings and associated structures on site were sampled via XRF and revealed significantly high levels of lead concentrations in, on, and around the building structures. This sampling event led to the USEPA decision to complete an interim action to address the immediate threat posed by the buildings. A removal action was conducted in January 2009 to quickly mitigate site access and exposure; the action consisted of fence installation around the most accessible areas of the site.

The USEPA has divided the site into two operable units (OUs) to effectively deal with the short term risks, lead in buildings, the long term risks, and contaminated soil and groundwater on-site.

This Remedial Design is focused on OU-1, targeting building demolition. The selected remedy for OU-1 consists of the following components:

- Building demolition – all buildings and associated above ground structures on-site will be removed via controlled demolition

- Asbestos containing material (ACM) and hazardous materials survey for disposal will be conducted and include universal wastes, PCB-containing devices, and lead-based paint (LBP) coated materials. ACM, universal wastes, and PCB-containing devices will be properly removed and disposed of off-site. LBP-coated debris will be evaluated for proper disposition. For example, LBP on metal will not be removed but recycled in total as scrap metal.
- Recycling - Salvageable material will be recycled or reused. Proceeds from recycling will be used to off-set the cost of the remedy.
- Putrescible wastes or unsalvageable materials will be characterized and properly disposed of off-site.
- On-site consolidation - Remaining debris will be consolidated and placed in the southwest corner of the site.
- Soil cover – a one-foot soil cover will be placed as a barrier over the contaminated building debris consolidated on-site

1.2 Work Plan

In preparation to perform the requested scope of work, CH2M Hill and EDI collaborated to prepare Site Specific Plans for approval by USEPA. A Quality Assurance Project Plan (QAPP), a Field Sampling Plan (FSP), and a Health and Safety Plan (HASP) were submitted and approved by USEPA. The hazardous materials survey included a building survey of asbestos containing materials (ACM), lead-based paint (LBP), and residuals on building components. The FSP identified the sampling methods and approach for the environmental survey. The scope of work was identified as follows:

A. EDI performed an asbestos survey to determine and quantify ACM in accessible areas within the buildings interior and exterior. The ACM survey was performed in compliance with Environmental Protection Agency (EPA) guidance document, Asbestos in Buildings: Simplified Sampling Scheme for Friable Surfacing Materials (EPA 560/5085-030a, October 1985). The regulations include National Emissions Standards for Hazardous Air Pollutants (NESHAP), 40 Code of Federal Regulations (CFR) Part 61.145. The work met the requirements specified in the NESHAP regulations to identify asbestos containing building materials (ACBM) in industrial, commercial and public buildings. The ACM survey included the following activities:

- Review of existing environmental documents (no ACM surveys were provided);
- Visual inspection of all accessible areas of the buildings;
- Collection of three suspect ACM bulk samples per homogeneous material in accessible areas of the buildings;
- AIHA and NVLAP accredited laboratory analysis of suspect ACM bulk samples by polarized light microscopy (PLM) to first positive result per homogeneous material;

- Preparation of a final report that includes photographs of representative ACM and the laboratory's analytical report.

B. EDI performed a LBP survey of painted walls, doors, building components, and windows throughout the interior and exterior of the accessible buildings. EDI tested metal, wood, concrete, and other painted surfaces using an x-ray fluorescence (XRF) analyzer to determine lead concentrations. EDI focused on areas of peeling paint and building components that would require abatement prior to recycling or disposal, due to LBP. Flaking and peeling LBP creates a hazard for lead dust that will require paint and dust management during demolition. Painted surfaces were classified into homogeneous areas and EDI collected three readings from each of the homogeneous areas on the accessible surfaces of the building components. The XRF is a non-intrusive and direct read instrument. The survey included the following activities:

- Visual inspection and physical assessment of all accessible areas;
- Analysis of appropriate components using an XRF;
- Paint chip samples were collected for quality assurance at appropriate intervals;
- Preparation of a final report that includes photographs of representative XRF test locations, a summary of results, inspector's qualifications, and XRF data.

C. A field investigation was conducted of the building components with residual product that would impact demolition activities. Residual product (i.e. powder or cement like) was in the kilns, hoppers, and prevalent throughout the production buildings. The survey included the following activities:

- Visual inspection and physical assessment of all accessible areas in the buildings;
- Sampling and analysis of residuals on building components;
- Preparation of a final report that includes photographs of representative residual samples, locations, a summary of results, and laboratory data.

D. EDI reviewed the buildings for lighting, electrical switches, and transformers that have been installed in the building prior to 1990. Electrical equipment installed post 1990 are not expected to have mercury or PCBs in their fluid components. Lighting or electrical switches installed prior to 1990 were observed for obvious signs of PCBs or mercury content. No sampling was anticipated for this environmental survey.

See the Site Specific Plans for a full description of the scope of work and the sample plan. The client provided background data was focused on soil, groundwater, and residual pile investigations exterior to the buildings.

1.3 Safety Issues

The buildings and site have been abandoned for many years. The site is fenced and the gate is

locked. The buildings are in various states of deterioration, some buildings have collapsed ceilings or partial walls. Some buildings have cracks or falling bricks from the walls. For the purpose of the survey, the buildings were grouped and labeled A through P. Building E was considered structurally unsound and no investigation of building materials was conducted on the interior or exterior due to the poor building condition. Building F had several feet of water on the floor and the interior was not surveyed or sampled. Building K had falling bricks, cracks in the walls, and a collapsed ceiling, this building was not surveyed on the interior. Portions of remaining buildings deemed unsafe were not entered or surveyed. Roofs were considered structurally unsound, and all sampling was conducted from a hydraulic powered lift. Similar building materials were observed across several buildings and assumptions were used to group buildings and materials as part of the survey.

A site walk through in April 2010 identified an office building (Building N) with broken lab equipment including mercury spill kits. As part of safety, EDI used a Lumex to screen the interior of the office building for evidence of mercury vapors. Mercury readings were identified in the north area of the office building and this area was determined unsafe for sampling activities.

1.4 Regulations

The following regulations are considered as part of this assessment. These regulations impact the demolition of buildings at this site.

Asbestos removal is regulated in Illinois Administrative Code Title 77 Section 855.220 IDPH Notification and Procedures for Abatement of Asbestos in Commercial and Public Buildings. Codes of Federal Regulations (CRF) governing asbestos include 29 CFR 1910.1001 OSHA, 29 CFR 1910.20 OSHA General Safety and Health Provisions, and 40 CFR 61 Subpart M National Emissions Standards for Hazardous Air Pollutants (NESHAP) and 40 CFR Part 763 Asbestos. The NESHAP regulations define asbestos into Category I and II materials and into friable and non-friable categories. Category I material is defined as asbestos-containing resilient floor covering, asphalt roofing products, packings and gaskets. Asbestos-containing mastic is also considered a Category I material (EPA determination - April 9, 1991). Category II material is defined as all remaining types of non-friable ACM not included in Category I that, when dry, cannot be crumbled, pulverized, or reduced to powder by hand pressure. Nonfriable asbestos-cement products such as transite are an example of Category II material. The asbestos NESHAP specifies that Category I materials which are not in poor condition and not friable prior to demolition do not have to be removed, except where demolition will be by intentional burning. However, regulated asbestos-containing materials (RACM) and Category II materials that have a high probability of being crumbled, pulverized, or reduced to powder as part of demolition must be removed before demolition begins. Since demolition activities do not include sanding, grinding, cutting, or abrading, Category I asbestos-containing roofing materials not in poor condition and not friable are not considered RACM and are allowed to remain in place during demolition. This information can be found on the EPA website for Region 5 under Air and Asbestos.

Lead hazards are defined in the Toxic Substance Control Act (TSCA) Section 401 and 403 Lead; Identification of Dangerous Levels of Lead. Lead-based paint (LBP) is defined as a hazard and is particularly dangerous to children. Lead hazardous waste is defined in 40 CFR Part 261 at a concentration of 5mg/L by toxicity characteristic leaching procedure (TCLP). TCLP sample results are compared to 40 CFR Part 261.30 Table 1 Maximum Concentration of Contaminants for the Toxicity Characteristic for D008 Lead, which is 5 mg/L. This table lists a maximum cadmium concentration of 1.0 mg/L and a maximum arsenic concentration of 5 mg/L. Scrap metal recycling has some exemptions from the hazardous waste regulations as defined in 40 CFR 261. However, 40 CFR 268.34 presents an alternative definition for toxicity characteristic metal wastes related to mineral processing operations. This regulation refers to Universal Treatment Standards published in 40 CFR 268.48, where the lead limit is listed as 0.75 mg/L for TCLP analysis. The 40 CFR 261.34 (1)(f) states, "If the waste contains constituents ... in excess of the applicable Universal Treatment Standards ..., the waste is prohibited from land disposal".

Zinc is a naturally occurring metal and is not listed with a Toxicity Characteristic under 40 CFR 261.30, but it is listed under Universal Treatment Standard for a maximum concentration of 4.3 mg/L. However, 40 CFR 261.3 definitions of hazardous waste identifies slag, resulting from high temperature metals recovery (HTMR) processing in units identified as rotary kilns, with a zinc maximum concentration of 70 mg/L. This definition is similar and may be applicable to the material observed at the Eagle Zinc site. For comparison, 70 mg/L will be considered the maximum concentration for toxicity of zinc.

Total metal results were compared to the Illinois Administrative Code Title 35, Part 742 Tiered Approach to Corrective Action Objectives (TACO) for construction worker (CW) remedial objectives. The remedial objectives for CW are primarily based on an ingestion exposure pathway. The CW objective for lead is 700 mg/kg, for zinc is 61,000 mg/kg, and for Cadmium is 200 mg/kg.

2.0 Asbestos Survey

During the asbestos survey, EDI representatives performed a visual inspection of each accessible building to identify suspect ACM. EDI representative credentials, including license and certification are provided in Appendix A. The ACM survey did not include areas that were not visible or accessible due to collapsed ceilings, structurally unsound buildings, other safety or security issues, or that were behind walls or otherwise inaccessible. A Site Layout for Survey was prepared as Figure 1 on the FSP. The Site Layout identified Buildings A through P for the survey. Some building groups had more than one building and buildings were labeled D1, D2, D3, etc. A photograph log of the survey is provided in Appendix B for review.

2.1 Asbestos Survey Methodology

The ACM survey was performed in accordance with the United States Environmental Protection Agency (USEPA) *Asbestos in Buildings: Simplified Sampling Scheme for Friable Surfacing Materials* (USEPA 560/5085-030a, October 1985). Similar building components were grouped into homogenous sampling areas (HSAs). HSAs are areas containing materials that are similar in color, texture, and general appearance, and which appear to have been uniformly installed during the same time period. The asbestos sampling focused on bricks, mortar, concrete patching, window caulks, window glazing, door caulks, floor or ceiling tiles, insulations (tank or piping), transite, and roofing materials. Roof materials were collected using an hydraulic powered lift. Roofs were considered structurally unsound for all the buildings. The materials were collected to sample all layers on a building component, for example a floor material sample may contain floor tile and mastic, and possibly consist of multiple layers. The laboratory analyzed multi-layer samples separately.

Bulk samples of suspect ACM were collected using wet sampling methods with a sample cutter, as appropriate, to collect a cross-section of the suspect ACM. Sample collection tools were decontaminated after each sample by washing with soap and water and dried by disposable towels to avoid cross contamination. Bulk ACM samples were placed into clean unused bags marked with a unique sample identification number. For each sample, the identification number, brief material description, location, condition and estimated quantity of suspect ACM were recorded on a bulk sample log sheet. Photographs were taken of representative HSAs.

Chain-of-Custody (COC) procedures were followed for the ACM survey. These procedures provide a written tracking mechanism that lists the person responsible for the sample from collection to delivery to the laboratory. Sample identification numbers, sample locations, and material descriptions were recorded on the chain-of-custody forms. The COC forms are provided with the laboratory sample reports.

All samples were analyzed by International Asbestos Testing Laboratories (IATL) in Laurel, New Jersey, a National Voluntary Laboratory Accreditation Program (NVLAP) accredited asbestos laboratory. Samples were analyzed by polarized light microscopy (PLM) supplemented

with dispersion staining. PLM utilizes a light microscope equipped with polarized filters (USEPA Method 600/R-93/116). No TEM samples were analyzed during this survey.

2.2 Results

The following summarizes materials identified to contain asbestos: various roofing materials; window glazing; window caulk; door caulk; pipe sealants; air cell pipe insulation; Transite lab tops; floor tiles and associated mastics; and, transite ceiling (office type buildings). The following ACM was found in each building.

HAS/Sample No.	Material Description	Location	% Asbestos	Estimated Quantity
A-B-HA5-15	Window asphalt paper	Window coverings on Building B	8.7	Windows: 10'x5' 12 windows per side, estimate 50 windows. 2,500 square feet
A-B-HA6-18	Black mastic on metal roof	Roof of tin building at east end of Building B	1.2	Tin Building estimated as 100' x 10' 1,000 square feet
A-C-HA7-20	Window glazing	Building C	2.8	Estimate 12 windows per side.
A-C-HA8-22	Window caulk	Building C	4.2	NA
A-C-HA16-47	Pipe sealant	North wall center, Building C	2.6	3 linear feet
A-D2-HA17-48	Roof sealant	Building D2	25	All roofs D2-D5
A-D1-HA22-65 & 67	Roof tar	Building D1	1.5 & 2.2	Roof on Building D1
A-D1-HA25-76	Window glazing	Exterior windows on Building D1	3.6	Exterior window glazing on Building D1
A-D1-HA27-82	Roof	Roof at south end of Building D1 at walkway between production building and south end.	2.1	NA
A-H2-HA37-114	Pipe insulation – air cell	Building H2	85	10 linear feet
A-K-HA32-98	Roofing	Building K	1.2	NA
A-L1-HA40-124	Window caulk	Building L1	5.3	200 linear feet
A-L1-HA40-124	Window glazing	Building L1	1.4	NA
A-L1-HA44-136	Door caulk	Building L1	1.3	60 linear feet

HAS/Sample No.	Material Description	Location	% Asbestos	Estimated Quantity
A-L1-HA45-139	Lab tops	Building L1 interior	20	Lab tops: 10'x3' with 10 in the building. 300 square feet.
A-L1-HA48-152	Roof	Building L1	4.4	NA
A-M-HA66-210 & 214 & 217	Roof flashing, multiple layers, and caulking	Building M	1.1-1.3	NA
A-M-HA69-219	Thermal system insulation – air cell	Building M – garage engineer office west	55	20 linear feet
A-M-HA70-222	Transite	Building M – break room	25	7500 square feet (ceiling)
A-M-HA77-244	Door caulk interior	Building M – garage door north	1.7	NA
A-N-HA49-158, 161, 164, & 170	Floor tile and mastic (12"x12")	Building N –office tan, brown, and grey	2.1-10	1200 square feet
A-N-HA55-176	Transite ceiling panel	Building N - office	20	150 square feet
A-N-HA56-179	Window glazing	Building N - exterior	1.2	NA
A-O-HA59-188	Roof caulk	Building O	15	NA
A-O-HA63-201	Window caulk	Building O - exterior	1.4	NA
A-P1-HA81-257	Window caulk	Building P1	1.5	NA
A-P1-HA82-260	Door caulk	Building P1	3.1	NA
A-P1-HA85-269	Roof	Building P1	5.3	NA

Note: NA – Not Available based on the poor condition of the roofs and windows and the extent of the material that could be spread around the buildings.

A summary of the materials sampled for asbestos, and asbestos sample results can be found in Appendix C. The laboratory reports are attached is Appendix C with the COCs and laboratory certification.

Roof materials at the following buildings have ACM: Building B, Building D (D1-D5), Building K, Building L1, Building M, Building O, and Building P. Roof samples from Building N did not have asbestos detections. Building E was not sampled, due to the collapsed nature of the building. Based on the roof sample results across the site, the roof materials should be assumed ACM Category I nonfriable for the purpose of demolition planning.

Window caulks and glazing were found to have ACM across numerous buildings. Building M had some window glazing samples that were non-detect for asbestos. Based on a representative

sampling of window caulks and glazing across several buildings, the window caulks and glazing should be assumed to contain asbestos. However, the windows for most of the buildings are broken and glazing and caulks are not intact. Shattered windows, caulks, and glazing are widely spread around the foot print of each building. Asbestos abatement of the windows will need to address the approach for abating intact versus shattered windows. Door caulks will be handled similarly, with the assumption that door caulks contain asbestos.

Other materials containing asbestos include pipe insulation, transite, and floor tiles, which can be found building specific and generally in poor condition. Gross removal with containment will be possible to address these more friable materials.

3.0 Lead Based Paint Survey

3.1 Lead Based Paint Survey Methodology

The LBP survey was conducted utilizing a modified assessment plan following the U.S. Department of Housing and Urban Development (HUD) *Guidelines for the Evaluation and Control of Lead-Based Paint Hazards in Housing* (1995 and 1997 Revision). An x-ray fluorescence (XRF) analyzer was used for this survey.

The XRF survey was conducted with an Innov-X Alpha series 4000 XRF Analyzer, which uses an X-ray tube source. The XRF analyzer was used on interior and exterior painted surfaces that were determined to be HSAs. HSAs are materials that are similar in color, texture, and general appearance, and which appear to have been painted during the same time period. Painted surfaces that indicate a lead concentration of equal to or greater than 1.0 mg/cm^2 of surface area are considered to be LBP as defined by HUD. Calibration checks of the XRF analyzer were performed prior to the morning and afternoon shifts. The XRF analyzer provides immediate positive or negative result readings of the painted surface which are then recorded on to a data log sheet.

HUD guidelines define LBP as paint containing 0.5 percent or greater lead by weight (when calculated as lead metal in a dried solid form), 5000 milligrams per kilogram (mg/kg), or equal to or greater than 1.0 mg/cm^2 using XRF instrumentation. Paint chip samples were collected for quality control analysis every 10 HSAs. The paint chips were placed in a sample container vial and submitted to the laboratory under proper chain of custody. Paint chip samples were submitted to CRL for analysis of total lead.

3.2 Results

The results were logged per building and multiple surfaces and materials were assessed. Painted surfaces throughout several buildings were observed to be in poor condition with significant areas of peeling paint. XRF data sheets and XRF results are provided in Appendix D.

Building A
The painted surfaces in Building A included the metal support beams and the wood door frame, both tested positive for LBP, (grey paint).

Building B
The painted surfaces in Building B included wood, wall joists, concrete walls, wood door frames, and corrugated metal. Each of the substrates tested had a positive reading for lead, (red and grey paints).

Building C
The painted surfaces in Building C included cinder block and particle board walls, wood frame and ceiling, metal walls, door frames, kilns, and production elements. In Building C, the only

paint testing positive for lead was the grey paint on the cinder block walls (near the building entrance). Some painted metal and wood surfaces did not test positive for LBP.

Building D - Group
The painted surfaces in Building D included wood and concrete doors; production elements; concrete walls; metal board walks, stairs and support beams; and wood window frames. Numerous painted surfaces tested positive for lead including grey painted wood window and door frames. The grey metal hopper and grey painted walk both tested positive for lead. The white metal stairs tested positive for lead. The south room had white LBP on wood ceiling, wall, and joists. In general, the grey paint tested positive for lead. The blue, yellow, red, and green paints on production elements and other surfaces tested negative for lead. The wood door frames on each of the buildings D2-D5 tested positive for lead. On building D5, the grey paint with yellow under on the window frame and wall tested positive for lead. The red metal wall also tested positive for lead.

Building F
Building F had grey paint on metal and wood that tested negative for lead. The red paint on the metal hopper tested positive for lead.

Building G
Building G tested negative for LBP on metal walls and support beams.

Building H - Group
Building H (three different small buildings) had a positive reading for a white brick wall. Building H2 had a metal door and window frame, brick wall and wood door; all test positive for lead on white paint. Building H3 had a white exterior window frame test positive for lead.

Building I - Group
Building I1 had no positive lead readings. Building I2 had grey paint on metal support beams and wood door frames that tested positive for lead. Building I3 had grey and white paint that tested positive for lead on wood door frames and beams, and the metal conveyor system.

Building J
Building J had grey and white paints on metal support beams that tested positive for lead.

Building L – Group
Building L1 had yellow, green and white paints with positive readings for lead on plaster, ceilings, doors, and door frames. Building L2 had white paint with positive LBP readings on concrete window sills and wood ceiling joists. The red painted brick and the wood door frame tested negative for LBP.

Building M
Building M had white and grey painted wood tested positive for LBP. The white wood painted cabinets and ceiling joists tested negative for lead. The concrete pillars white and blue tested

positive for lead. The yellow wall tested negative, the grey floor (concrete) had a positive reading. The red brick tested negative, but the white cinder block tested positive for LBP.

Building N
Building N had blue painted concrete window sills that tested positive for lead. The red, black, and white paints in Building N tested negative for lead.

Building O
Building O had white on brick walls and wood ceiling joints that tested positive for lead. Building O had doors, support beams, and red brick walls that tested negative for LBP.

Building P- Group
Building P1 had white and grey paints on door frames and walls that tested positive for LBP. Brick and metal walls tested negative for lead.

The building components reported as positive for LBP, substrates, color, locations, and readings are listed in the Lead Sample Log sheets, along with all the components tested in Appendix D. A summary of these results identified some common characteristics:

- Grey paint across the buildings (A, B, C, D, I, J, M, and P) had positive lead content.
- White paint across the building tested more than 50% positive for lead (suspect paint that should be checked).
- Peeling white paint in Building D1 production area is presumed to be LBP based on positive lead readings for the paint in the production room.
- Red paint in buildings B, D1, and F1 tested positive for lead. Other paint colors had mixed positive and negative lead results.
- Concrete and cinder block (Building C) had positive lead readings.
- Not all painted surfaces tested positive for lead.

A paint chip sample for every 10 HSAs was collected as a measure of quality control. The paint chip samples were analyzed by USEPA Central Regional Laboratory for lead by ICP. The paint chip results ranged from 14 mg/kg to 160,000 mg/kg. The paint chip results are report with the XRF data sheets and generally confirm the XRF lead results. The data results are presented with the CRL Table in Appendix E.

The survey focused on building materials that will be removed as part of demolition and will be recycled or handled on site. Sampling to determine hazardous characteristics is required to determine best practices for the recycling of the material or the disposal of the material: on-site or off-site. Peeling paints were found to be present extensively in Building D and the peeling paint is presumed to be LBP, flaking paints present a potential dust hazard during demolition of the buildings.

Painted concrete surfaces, interior and exterior, had lead content. Painted brick had high lead content. Painted concrete and brick may need abatement based on disposal option selection. Wood doors and frames generally tested positive for lead, except in Buildings F1, H, L2, N, and

O. Wood surfaces may need testing prior to disposal. A painted plaster surface in building L1 had high lead content. Metal with LBP can be recycled, however, the recycling facility should be informed of the LBP potential in case it impacts processing or recycling. The removal of the metal components may require on site demolition that could disturb lead paint. Lead dust should be managed and minimized during all demolition activities.

Workers who handle LBP coated building components must be protected from exposure following OSHA regulations. Measures for dust control should be in place prior to demolition activities.

The estimated quantities of LBP on building demolition components are not included herein. Further discussion and review of demolition and disposal options are required to provide useable estimated quantities that are pertinent to project progression. Additional field quantification should be provided for LBP based on remedial action decisions that will require LBP abatement, versus allow LBP to remain on components for disposal on-site and/or off-site.

4.0 Residual Sampling

The buildings have residual product, waste and/or dust throughout the interior and exterior of the buildings. A sample of residual product or waste was collected from various building components. For example, production kilns and product storage areas were identified throughout Buildings C, D1, I, and J. The demolition of these buildings will disturb and impact the product or waste materials remaining in the building and adhering to production elements, walls, floors, and ceilings.

4.1 Residual Survey Methodology

Each building was visually assessed for building components with visible product. The residual samples included samples of the white product in production buildings or on building components. Concrete walls and floors and brick walls were sampled for lead content due to residual product and dust. EDI understood that the building demolition was to the floor slab, and limited samples were collected from the concrete slabs, as they were to remain in place. Limited wipe samples were collected from brick, concrete, and wood as TCLP analysis was preferred for disposal determination. EDI focused on removal and disposal over sampling of materials that would remain in place.

The white product residual samples were collected directly into a glass sampling jar and labeled. The brick, cinder block, and concrete were chipped using a hammer and chisel, screw driver or similar devise and collected in a plastic bag. The wipe samples were collected from a 12 inch by 12 inch square, using a template. The wipe included a preservation compound and the wipe was contained in a sample vial for shipment to the laboratory. All residual samples (in 8 oz sample containers, plastic bags, and wipe sample vials) were submitted to CRL for laboratory analysis of lead content. Wipe samples were analyzed for total lead. Residuals (product, concrete, and brick) were analyzed for total and TCLP lead. EDI followed CLP Forms II Lite sample logging and tracking for the chain of custody and laboratory submittal. Attached in Appendix E are the residual sample logs and laboratory results.

4.2 Residual Results

The residual sample (product, brick, concrete) results were reported by the CRL laboratory as total and TCLP metals. EDI tabulated the lead results (total and TCLP) for review and comparison to remedial objectives (Table 1). EDI tabulated the other metal results (copper, manganese, zinc, arsenic, and cadmium) for TCLP (Table 2) and total (Table 3) review and comparison. These results are provided in Appendix E with the Table from CRL.

The total lead results are compared to the TACO Tier 1 Construction Worker remedial objective for ingestion (700 mg/kg). Exceeding the construction worker objective will require the demolition contractor to develop health and safety procedures for work in these areas or with these materials. The TCLP lead results are compared to the Toxicity Characteristic as listed in 40 CFR 261.30 Table 1 for D008 Lead (5 mg/L). Lead results exceeding the Toxicity Characteristic limit are considered hazardous waste and will have to be removed and/or stabilized prior to off-site or on-site disposal. Residual product and brick in Buildings B, C, D1, and P1 had lead concentrations exceeding the

Toxicity Characteristic and the materials or residual on the building materials would be considered hazardous waste. The sample of brick from the interior north wall east end in Building B had a TCLP concentration of 5.05 mg/L. The residual brick and product sample from Building C west furnace had a TCLP concentration of 28.9 mg/L. A sample of the product from the center furnace in Building C had a TCLP of 1.3 mg/L. Samples of white product from Building D at the north end in the production area, had TCLP of 6 mg/L and 22.7 mg/L. Two of the three white product samples collected from this area were above the Toxicity Characteristic for lead. The composite brick sample from Building P1 had a TCLP result of 11.9 mg/L. The corresponding total lead results for these samples exceeded CW objectives and would require health and safety precautions.

The concrete floor in Building A had a total lead of 1,100 mg/kg, which exceeds the CW objective. This sample had a TCLP result of 1.06 mg/L, which is below the Toxicity Characteristic, but exceeds the Universal Treatment Standards.

The concrete floor in Building B and the cinder block wall in Building C both had total and TCLP lead results below CW objectives, below Toxicity characteristics and below Universal Treatment Standards.

Residual samples from the D1 and D2 Buildings included product, brick, and concrete samples that had lead results ranging from non-hazardous to hazardous concentrations. The product and brick on the north exterior wall had a TCLP lead result of 3.24 mg/L, which is below the hazardous level (but above the Universal Treatment Standard), however the total lead (1,800 mg/kg) did exceed the CW objective. These results were similar for the product sample collected at the north end of the production area. The brick from Building D2 north wall had a TCLP result of 2.38 mg/L, however, the duplicate sample from this area had a low TCLP of 0.0923 mg/L (both total lead results were low and similar at 51 mg/kg and 9.1 mg/kg). The concrete in Building D1 north hallway had low TCLP results (0.191 mg/L), but total lead (1500mg/kg) exceeding CW objectives.

Concrete in Building G had low level TCLP results (both less than 0.2 mg/L) and total lead results were 13 mg/kg and 830 mg/kg, indicating one exceedance above CW objectives. Residual samples from Building J (brick furnace and concrete) and Building K (exterior brick) were all well below toxicity characteristic and CW objectives. The brick and concrete samples from Buildings L1, M, and N were also below toxicity characteristics and CW objectives.

However, a correlation is expected between the total and TCLP data, which was not consistent in the laboratory data. For example, a TCLP result of 2.38 mg/L (sample R-D2-HA3-07) had a corresponding total lead result of 51 mg/kg, which seems low. In another location, a total lead result of 6200 mg/kg had a corresponding TCLP result of 0.0583 mg/L.

The wipe samples were collected from concrete and wood and the results were all above 1,050 ug/wipe with the highest reading at 26,200 ug/wipe. Regulations 40 CFR Part 745.65 identify a lead dust hazard for a residential or child-occupied facility as a lead concentration exceeding 40 ug/ft or per wipe on floors or 250 ug/wipe on interior window sills. The wipe samples collected from Eagle Zinc are all above these standards.

The other TCLP metal results did not identify arsenic in the samples tested. High levels of zinc were observed in the total and TCLP sample results. Cadmium TCLP results were reported at levels exceeding the Toxicity Characteristic of 1.0 mg/L in several samples. In Building C, the residual product from the center furnace, not identified to be hazardous for lead, is identified with cadmium concentrations above toxicity characteristics (cadmium at 2.59 mg/L). White product samples from Building D were identified at 3.47 mg/L cadmium and 12.8 mg/L cadmium, both exceeding Toxicity Characteristics. The Building D1 hallway concrete had TCLP cadmium results of 4.72 mg/L and 2.35 mg/L, which indicates hazardous levels of cadmium. A concrete sample from Building G had a concentration of 2.17 mg/L cadmium, exceeding the hazardous level.

The zinc sample results for TCLP in comparison to the generic exclusion levels for F006 non Wastewater HTMR residues indicate 22 samples at hazardous concentrations of the 34 residual samples collected and tested for TCLP metals. High concentrations of zinc (over 70 mg/L) were found in concrete, brick and residual samples in Buildings A, B, C, D, G, I, J, and K. These TCLP concentrations ranged from 77.8 mg/L to 4180 mg/L. The corresponding total zinc results ranged from 1,400 mg/kg to 380,000 mg/kg, with the highest total zinc result at 610,000 mg/kg in Building C at the center furnace. The CW remedial objective for zinc is 61,000 mg/kg, and 12 samples were reported exceeding this objective.

In summary, the residual product (and product adhered to building materials) should be considered a hazardous waste (based on TCLP lead and cadmium results). The residual product should be collected and disposed off-site or on-site as hazardous waste. The building materials, including brick and concrete, will be further sampled to identify if the hazardous characteristic is only on the surface of the material or if the metals have penetrated the material, to determine if the brick or concrete en mass should be considered hazardous or non-hazardous. Concrete and brick identified as non-hazardous can be disposed and buried on site. These materials would require some level of abatement or decommissioning to remove the hazardous dust or residuals on the surface. Materials should be tested for TCLP lead and cadmium at a minimum.

4.3 Other Universal Wastes
Mercury and PCB containing equipment

Thermostats were observed in the production and mechanical rooms that may be mercury containing Thermostats controlling production heat and building heat could be mercury containing. Thermostats were observed at furnaces in Building C, four furnaces observed. Several electric panels were observed in Building D1. Barometers were observed in Building F2. Building heat thermostats would be expected in buildings L through P. No pole mounted transformers were observed on the site. Existing lighting ballasts are located throughout the buildings and accessible ballasts were viewed for labels. Labels on ballasts indicated non-PCB containing lighting. Lighting ballasts, not labeled, should be assumed to contain PCBs or tested prior to demolition to confirm non-PCBs containing. The demolition specifications should reference Illinois Standards for Universal Waste removal to management possible mercury and PCB containing equipment that may be on site during demolition activities. Universal wastes throughout the buildings should be handled in accordance with IAC Title 35 Part 733.

5.0 Findings and Recommendations

This Hazardous Materials Survey included the assessment of building materials for ACM, LBP, and residuals with high lead content. The survey included visual inspection of the accessible areas of the building and sampling for ACM, LBP, and residuals.

Asbestos Containing Materials Survey

The following materials were determined to be ACM and are assumed ACM for all the buildings:
- Roofing materials
- Window paper covering, caulks and glazings, and door caulks.

These ACM building components were generally in poor condition and spread around the foot print of the building. Asbestos abatement design and planning must consider the impact of non-intact ACM. These materials would be considered Category I non-friable asbestos.

Other ACMs were building specific and included pipe insulation, floor tiles, mastics, and transite.
- Building C (north wall center) – pipe sealant
- Building H2 – air cell pipe insulation
- Building L1 – lab tops
- Building M (garage engineer office west) – air cell thermal system insulation
- Building M (break room) – transite ceiling
- Building N (office) – tan, brown, and gery floor tile and mastic
- Building N (office) – transite ceiling panels

These ACM building components were generally intact and in the interior of the building. The ACM is generally in poor condition. The ACMs are Category II friable and require abatement in containment prior to demolition.

ACM must be abated by an IDPH-licensed contractor using IDPH-licensed supervisors and workers, prior to building demolition. A site-specific asbestos abatement design is recommended and should be prepared under the direction of an IDPH-licensed asbestos project designer.

- Abate ACM noted pipe insulation, transite (ceiling and lab tops), and floor tile with mastic. However, Building N should be further assessed for mercury contamination on the building interior prior to abatement activities.
- All ACM's abated from Eagle Zinc shall be transported in a manor consistent with local and federal regulations.
- All ACM abated from Eagle Zinc shall be disposed of in an approved landfill or disposal facility in a manor consistent with local and federal regulations. A copy of the disposal documentation signed by a landfill or disposal facility representative shall be included in the final abatement report submitted to the Contracting Officer by the abatement contractor within 30 days of completing abatement.

Lead-Based Paint Survey

The following building components were found to contain LBP:
- Concrete and brick surfaces (interior and exterior);
- Wood doors and frames, and other wood surfaces;
- Plaster surface in Building L1;
- Various metal building and production components.

Painted surfaces had positive and negative XRF results. Not all concrete, brick, wood, plaster or metal surfaces had LBP. In general, some common characteristics for positive LBP results included the following:
- Grey paint across the buildings (A, B, C, D, I, J, M, and P) had positive lead content.
- White paint across the building tested more than 50% positive for lead (suspect paint that should be checked).
- Peeling white paint in Building D1 production area is presumed to be LBP based on positive lead readings for the paint in the production room.
- Red paint in buildings B, D1, and F1 tested positive for lead. Other paint colors had mixed positive and negative lead results.
- Concrete and cinder block (Building C) had positive lead readings.

Workers who handle LBP coated building components must be protected from exposure following OSHA regulations. LBP building components may not require remedial or mitigation during demolition. Measures for dust control should be in place prior to demolition activities. However, recycling activities may require remedial action or mitigation, in order to recycle concrete or brick (for example).

Residuals Survey

Residual product and brick in Buildings B, C, D1, and P1 had lead concentrations exceeding the Toxicity Characteristic and the materials or residual on the building materials would be considered hazardous waste. The sample of brick from the interior north wall east end in Building B had a TCLP concentration of 5.05 mg/L. The residual brick and product sample from Building C west furnace had a TCLP concentration of 28.9 mg/L. A sample of the product from the center furnace in Building C had a TCLP of 1.3 mg/L. Samples of white product from Building D at the north end in the production area, had TCLP of 6 mg/L and 22.7 mg/L. Two of the three white product samples collected from this area were above the Toxicity Characteristic for lead. The composite brick sample from Building P1 had a TCLP result of 11.9 mg/L. The corresponding total lead results for these samples exceeded CW objectives and would require health and safety precautions.

The other TCLP metal results did not identify arsenic in the samples tested. High levels of zinc were observed in the total and TCLP sample results. Cadmium TCLP results were reported at levels exceeding the Toxicity Characteristic of 1.0 mg/L in several samples. In Building C, the residual product from the center furnace, not identified to be hazardous for lead, is identified with cadmium concentrations above toxicity characteristics (cadmium at 2.59 mg/L). White product

samples from Building D were identified at 3.47 mg/L cadmium and 12.8 mg/L cadmium, both exceeding Toxicity Characteristics. The Building D1 hallway concrete had TCLP cadmium results of 4.72 mg/L and 2.35 mg/L, which indicates hazardous levels of cadmium. A concrete sample from Building G had a concentration of 2.17 mg/L cadmium, exceeding the hazardous level.

The zinc sample results for TCLP in comparison to the generic exclusion levels for F006 non Wastewater HTMR residues indicate 22 samples at hazardous concentrations of the 34 residual samples collected and tested for TCLP metals. High concentrations of zinc (over 70 mg/L) were found in concrete, brick and residual samples in Buildings A, B, C, D, G, I, J, and K. These TCLP concentrations ranged from 77.8 mg/L to 4180 mg/L. The corresponding total zinc results ranged from 1,400 mg/kg to 380,000 mg/kg, with the highest total zinc result at 610,000 mg/kg in Building C at the center furnace. The CW remedial objective for zinc is 61,000 mg/kg, and 12 samples were reported exceeding this objective.

In summary, the residual product (and product adhered to building materials) should be considered a hazardous waste (based on TCLP lead and cadmium results). The residual product should be collected and disposed off-site or on-site as hazardous waste. The building materials, including brick and concrete, will be further sampled to identify if the hazardous characteristic is only on the surface of the material or if the metals have penetrated the material, to determine if the brick or concrete en mass should be considered hazardous or non-hazardous. Concrete and brick identified as non-hazardous can be disposed and buried on site. These materials would require some level of abatement or decommissioning to remove the hazardous dust or residuals on the surface. Materials should be tested for TCLP lead and cadmium at a minimum.

Existing thermostats should be checked or removed prior to demolition activities. Existing thermostats or thermometers were observed in the production building and may contain mercury. Existing lighting ballasts are assumed to be located throughout the buildings and will require removal and proper disposal. Lighting ballasts should be assumed to contain PCBs, if not labeled as non-PCBs, or tested prior to demolition to confirm non-PCBs containing. Universal wastes throughout the buildings should be handled in accordance with IAC Title 35 Part 733.

6.0 Limitations

This report is based solely on the scope of work provided and the assumptions identified in this limited survey. Any new information that becomes available concerning the subject site should be provided to EDI so that our evaluations, conclusions, and recommendations may be revised and modified accordingly. All materials tested are assumed homogeneous throughout the proposed renovation areas. EDI staff walked the site area with building representatives to identify accessible areas to be included in the limited survey. Every attempt was made to thoroughly evaluate and assess the presence and condition of suspect asbestos and lead containing materials. Not all rooms were accessible during the survey. EDI did not perform destructive sampling practices and suspect materials may exist within occupied or inaccessible areas. Any suspect material identified during renovation that is not specifically listed herein should be thoroughly assessed, sampled and analyzed prior to disturbance, in accordance with applicable regulatory standards.

The findings and conclusions in this report are not specific certainties; rather they are probabilities based on professional judgment concerning the significance of the data collected. EDI claims to represent only the specific findings documented herein and does not claim knowledge of conditions beyond the scope of the limited survey.

The asbestos and lead survey was conducted in a manner consistent with that level of care and skill ordinarily exercised by members of the environmental profession under similar conditions. No other warranty or guarantee, express or implied, is included or intended in this Report or otherwise.

This report is intended for the use of the client, subject to the terms and conditions of EDI's Scope of Services and Fees for Professional Services Agreement.

7.0 Acronyms and Definitions

ACM: Asbestos Containing Materials

ANSI: American National Standards Institute

DOT: U.S. Department of Transportation

EPA: Environmental Protection Agency

ELLAP: Environmental Lead Laboratory Accreditation Program

HUD: U.S. Housing and Urban Development

IDOT: Illinois Department of Transportation

LBP: Lead-Based Paint

NESHAP: National Emissions Standard for Hazardous Air Pollution

NVLAP: National Voluntary Laboratory Accreditation Program

OSHA: Occupational Safety and Health Administration

PLM: Polarized Light Microscopy

RACM: Regulated Asbestos Containing Material

TEM: Transmission Electron Microscopy

TSI: Thermal System Insulation

XRF: X-Ray Fluorescence

The following definitions are intended to provide the reader with a better understanding of the terminology used in this report.

Asbestos
The general name given to a number of naturally occurring hydrated mineral silicates that possess a unique crystalline structure, are incombustible in air, and are separable into fibers. Asbestos includes the asbesti-form varieties of chrysotile (serpentine); corcidolite (riebeckite); amosite (cummingtonite-frunertie); anthopyllite; and actinolite.

Asbestos-Containing Material

Asbestos contain materials (ACM) are materials that are found to contain greater than one percent by weight asbestos content as determined by polarized light microscopy (PLM) analysis.

Accessible Areas
An accessible area of the building is any area that the survey team is permitted to inspect and that can be inspected without the disassembly of complicated mechanical or rigid structural components of the building. Examples of accessible areas of the building are interior floors, walls, ceilings, areas above suspended ceilings, return air shafts (normally), mechanical piping exteriors, and equipment exteriors, etc.

Damaged material
A "damaged" material contains a few water stains or less that one-tenth of insulation with missing jackets and/or crushed insulation or water stains, gouges, punctures, or mars on surface up to one-tenth of the insulation if the damage is evenly distributed or up to one-quarter if the damage is localized.

Inaccessible Areas
An inaccessible area is any area where inspection access is not permitted or requires a considerable amount of mechanical or structural disassembly to inspect. Inaccessible areas normally only investigated prior to renovation or demolition activities. Examples of inaccessible areas are pipe chases behind walls, mechanically encased insulation, crawlspaces or unsafe areas.

Friable Material
A material, that when dry, may be crumbled, pulverized or reduced to powder by hand pressure is a friable material. Examples of friable materials include: pipe insulation, boiler or tank insulation, or sprayed-on fireproofing.

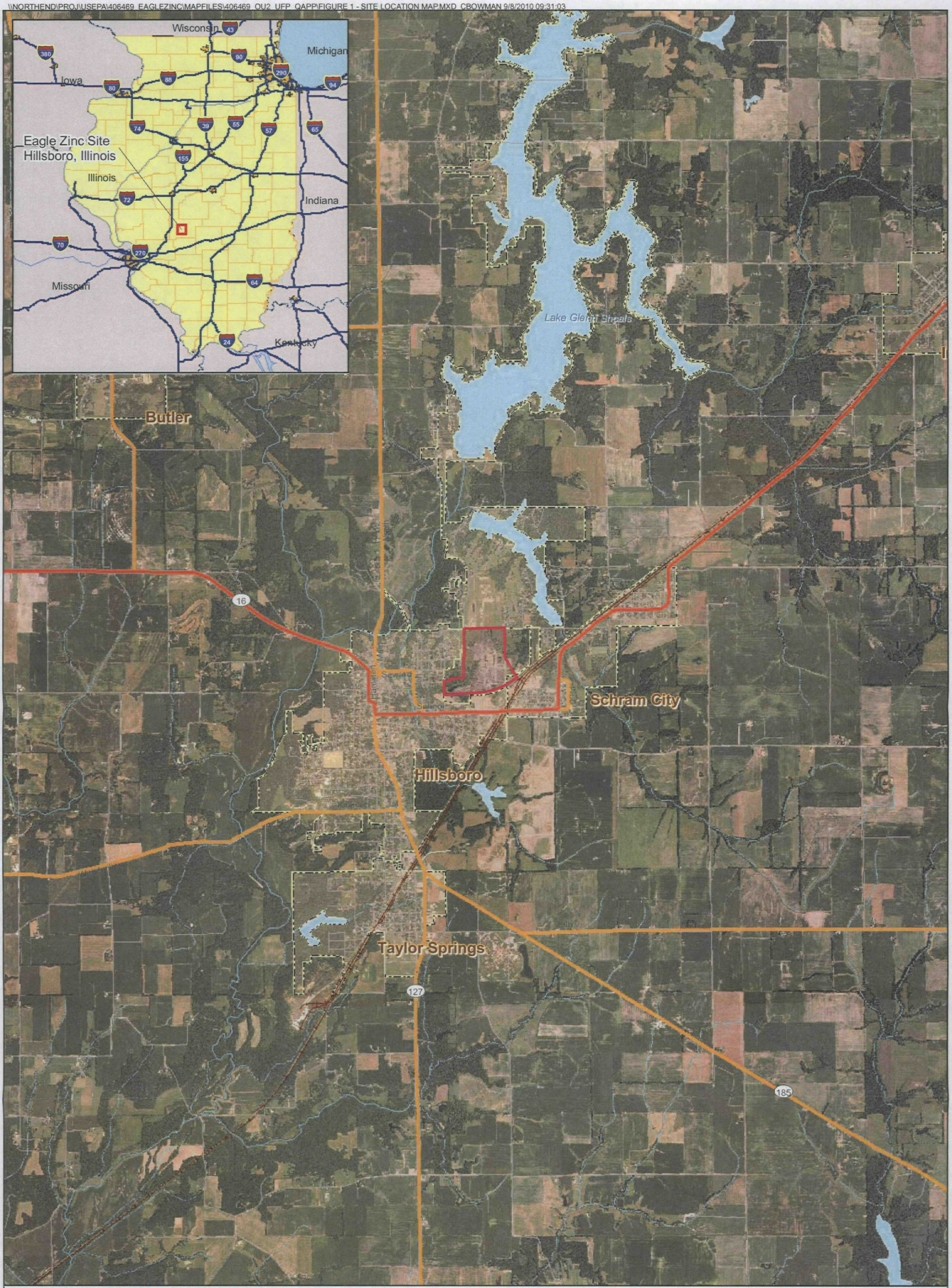
Non-friable Material
A material, that when dry, cannot be crumbled, pulverized or reduced to powder by hand pressure. Non-friable materials may be come friable through damage or deterioration. Examples of non-friable materials include: intact floor tile, transite building panels, or well maintained roofing materials.

Homogeneous Area
A homogeneous area is defined as a group of materials that is uniform in texture and appearance, was stalled at one time, and is likely to consist of more than one type or formation of material.

Significantly Damaged Material
A "significantly damaged" material contains missing jackets on at least one-tenth of the piping or equipment and/or is crushed, heavily gouged, or punctured insulation on at least one-tenth of pipe runs/rises, boilers, tanks, ducts, etc., if the damage is evenly distributed or one-quarter of the damage is localized.

Figures

\\NORTHEND\PROJ\USEPA\406469_EAGLEZINC\MAPFILES\406469_OU2_UFP_QAPP\FIGURE 1 - SITE LOCATION MAP.MXD CBOWMAN 9/8/2010 09:31:03



Legend
Site Boundary

N
W E
S

0 2,000 4,000 8,000 Feet

1 inch = 4,000 feet

Figure 1
Site Location Map
OU2 UFP-QAPP
Eagle Zinc Superfund Site - Hillsboro, Illinois

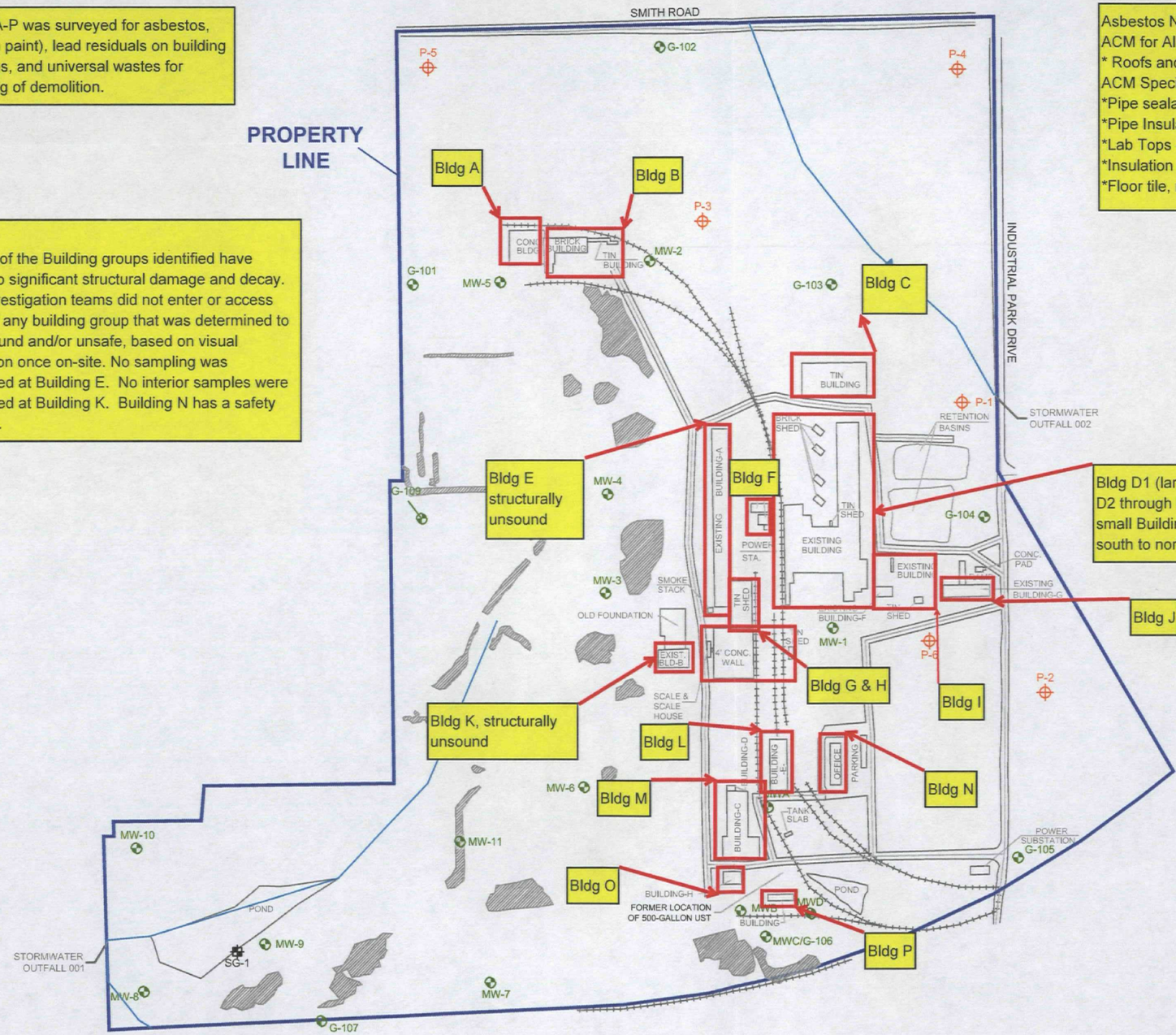
CH2MHILL

Figure 2: Site Layout for Field Investigation
(Base drawing provided by CH2M Hill)

Bldgs A-P was surveyed for asbestos, lead (in paint), lead residuals on building surfaces, and universal wastes for planning of demolition.

NOTE:
Several of the Building groups identified have limited to significant structural damage and decay. Field investigation teams did not enter or access areas of any building group that was determined to be unsound and/or unsafe, based on visual evaluation once on-site. No sampling was conducted at Building E. No interior samples were conducted at Building K. Building N has a safety concern.

Asbestos Notes:
ACM for All Buildings
* Roofs and Window Caulks
ACM Specific Buildings
*Pipe sealant - Building C
*Pipe Insulation - Building H2
*Lab Tops - Building L1
*Insulation and transite ceiling - Building M
*Floor tile, mastic, transite ceiling - Building N



LEGEND
- MONITORING WELL
- PIEZOMETER
- STAFF GAUGE
- STREAMS/DRAINAGEWAYS
- STORM WATER/SURFACE WATER FLOW
- RESIDUE PILES

APPROX. SCALE (ft.)
0 360

ENVIRON

SITE LAYOUT MAP
EAGLE ZINC
HILLSBORO, ILLINOIS

DATE:	CONTRACT NUMBER:		FIGURE
11/02/04	21-7400E		I-2
DRAFTER: APR	APPROVED:	REVISED:	

R:\Client Project Files\Eagle Zinc-Hillsboro_21-7400E\RI Report\RI Draft_110504\Figures\I-2 Site Layout Map.dwg

Appendices

Appendix A: ACM and LBP Inspector Licenses and Certifications

PUBLIC HEALTH

ASBESTOS PROFESSIONAL LICENSE

ID NUMBER	ISSUED	EXPIRES
100 - 10088	4/26/2010	05/15/2011

JOSE G AGUILERA
2652 S. CENTRAL PARK AVEN
CHICAGO, IL 60623

Environmental Health

ENDORSEMENTS	TC EXPIRES
INSPECTOR	2/5/2011
PROJECT MANAGER AIR SAMPLING PROFESSIONAL	7/31/2010

Alteration of this license shall result in legal action
This license issued under authority of the State of Illinois Department of Public Health
This license is valid only when accompanied by a valid training course certificate.

Occupational Training & Supply, Inc.

7233 Adams Street • Willowbrook, IL 60527 • (630) 655-3900

Jose Aguilera

has successfully completed the 4 hour Asbestos Building Inspector Refresher course and has passed the competency exam with a minimum score of 70%. This course is accredited by the Illinois Department of Public Health and the Indiana Department of Environmental Management for purposes of accreditation in accordance with EPA 40 CFR 763, Asbestos Hazard Emergency Response Act (AHERA) and TSCA Title II.

Asbestos Building Inspector Refresher

Course Date: 2/5/2010
Expiration Date: 2/5/2011

Exam Date: 2/5/2010
Certificate: BIR1002050274

Kathy DeSalvo, Director

2010

Occupational Training & Supply, Inc.

7233 Adams Street • Willowbrook, IL 60527 • (630) 655-3900

Jose G. Aguilera

has successfully completed the 16 hour Lead Risk Assessor course and has passed the competency exam with a minimum score of 70%. This course is accredited by the Illinois Department of Public Health in accordance with the Illinois Lead Poisoning Prevention Code.

Lead Risk Assessor

Course Date: 4/2-3/2009
Expiration Date: 4/3/2012

Exam Date: 4/3/2009
Certificate: LRA0904021069

Kathy DeSalvo

Kathy DeSalvo, Director

2009

Illinois Department of PUBLIC HEALTH

LEAD RISK
ASSESSOR LICENSE

LEAD ID	ISSUED	EXPIRES
006379	1/27/2010	1/31/2011

Paul S Kybartas
7663 Walnut Ave.
Woodridge, IL 60517

ILLINOIS LEAD PROGRAM
Environmental Health

Alteration of this license shall result in legal action
RISK ASSESSOR CERTIFICATE EXPIRES
2/1/2011
This license issued under authority of the State of Illinois -Department of Public Health
This license is valid only when accompanied by a valid training course certificate
If found return to 525 W.Jefferson St Springfield, IL 62761

Occupational Training & Supply, Inc.

7233 Adams Street • Willowbrook, IL 60527 • (630) 655-3900

Paul Kybartas

has successfully completed the 8 hour Lead Risk Assessor Refresher course and has passed the competency exam with a minimum score of 70%. This course is accredited by the Illinois Department of Public Health in accordance with the Illinois Lead Poisoning Prevention Code.

Lead Risk Assessor Refresher

Course Date: February 1, 2008
Expiration Date: February 1, 2011

Exam Date: February 1, 2008
Certificate:LRAR0802010365

Kathy DeSalvo

Kathy DeSalvo, Director

2008

Certificate of Achievement

This is to certify that

Paul S. Kybartas
Aires Consulting Group

on the 31st day of July 2008 successfully completed the factory training for

RMD's LPA-1 Lead Paint Inspection System

including, but not limited to the topics of Radiation Safety, DOT Regulations, and the Proper Use of the Instrument.

Jacob Paster, Vice President, RMD
44 Hunt St., Watertown, Massachusetts

Illinois Department of PUBLIC HEALTH

ASBESTOS PROFESSIONAL LICENSE

ID NUMBER	ISSUED	EXPIRES
100 - 08451	**5/4/2010**	05/15/2011

PAUL S KYBARTAS
7663 WALNUT AVENUE
WOODRIDGE, IL 60517

Environmental Health

ENDORSEMENTS	**TC EXPIRES**
INSPECTOR	3/24/2011
PROJECT MANAGER AIR SAMPLING PROFESSIONAL	1/23/2011

Alteration of this license shall result in legal action
This license issued under authority of the State of Illinois Department of Public Health
This license is valid only when accompanied by a valid training course certificate.

Occupational Training & Supply, Inc.

7233 Adams Street • Willowbrook, IL 60527 • (630) 655-3900

Paul Kybartas

has successfully completed the 4 hour Asbestos Building Inspector Refresher course and has passed the competency exam with a minimum score of 70%. This course is accredited by the Illinois Department of Public Health and the Indiana Department of Environmental Management for purposes of accreditation in accordance with EPA 40 CFR 763, Asbestos Hazard Emergency Response Act (AHERA) and TSCA Title II.

Asbestos Building Inspector Refresher

Course Date: 3/24/2010
Expiration Date: 3/24/2011

Exam Date: 3/24/2010
Certificate: BIR1003240903

Kathy DeSalvo

Kathy DeSalvo, Director

2010

Occupational Training & Supply, Inc.

7233 Adams Street • Willowbrook, IL 60527 • (630) 655-3900

Kristen Templin

has successfully completed the 24 hour Asbestos Building Inspector course and has passed the competency exam with a minimum score of 70%. This course is accredited by the Illinois Department of Public Health and Indiana Department Environmental Management for purposes of accreditation in accordance with EPA 40 CFR 763, Asbestos Hazard Emergency Response Act (AHERA) and TSCA Title II.

Asbestos Building Inspector

Course Date: 3/3-5/2010
Expiration Date: 3/5/2011

Exam Date: 3/5/2010
Certificate: ABI1003050627

Kathy DeSalvo
Kathy DeSalvo/ Director

2010

ASBESTOS
PROFESSIONAL
LICENSE

ID NUMBER	ISSUED	EXPIRE
100 - 18364	2/19/2010	03/16/201

KRISTEN R TEMPLIN
3933 N CLARENDON APT 505
CHICAGO, IL 60613

Environmental Health

ENDORSEMENTS	TC EXPIRE
PROJECT MANAGER	8/21/2010

Alteration of this license shall result in legal action
This license issued under authority of the State of Illinois
Department of Public Health
This license is valid only when accompanied by a valid
training course certificate.

Appendix B: Photograph Log

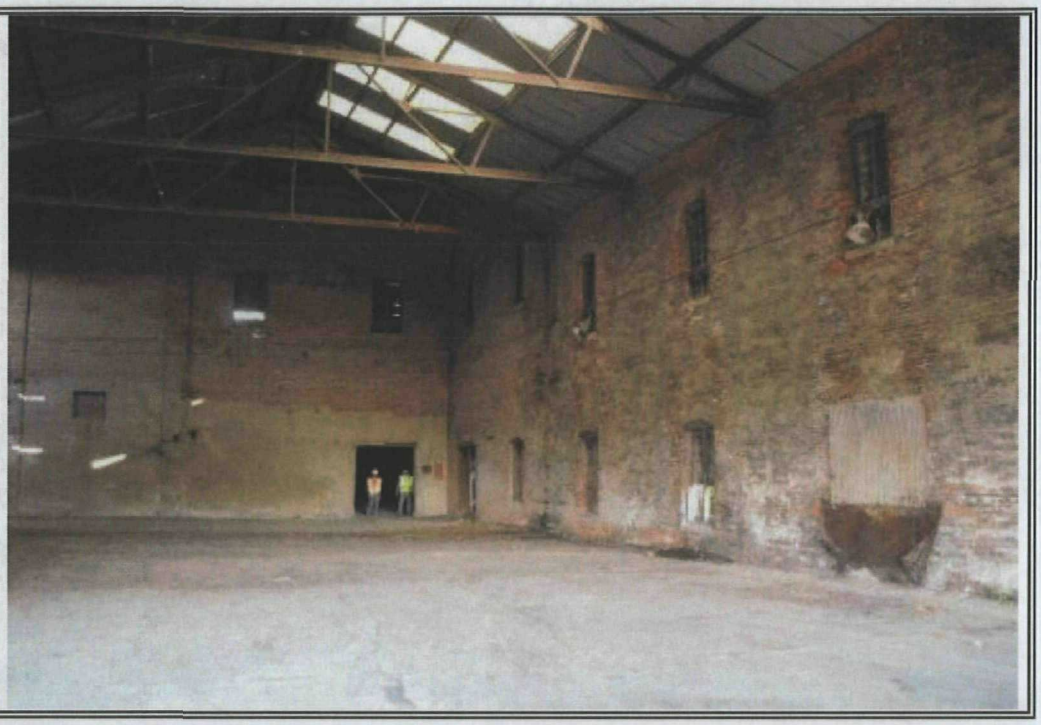
Photographic Log

Project Name	Eagle Zinc OU1

Proj: 1515.017.03
Date: 8/23/10
Photographed By:
K. Templin

Description:
View of interior of Building B looking west. Window coverings and roof materials were positive for asbestos. Painted surfaces were positive for lead.

Photo #1



Proj: 1515.017.03
Date: 8/23/10
Photographed By:
K. Templin

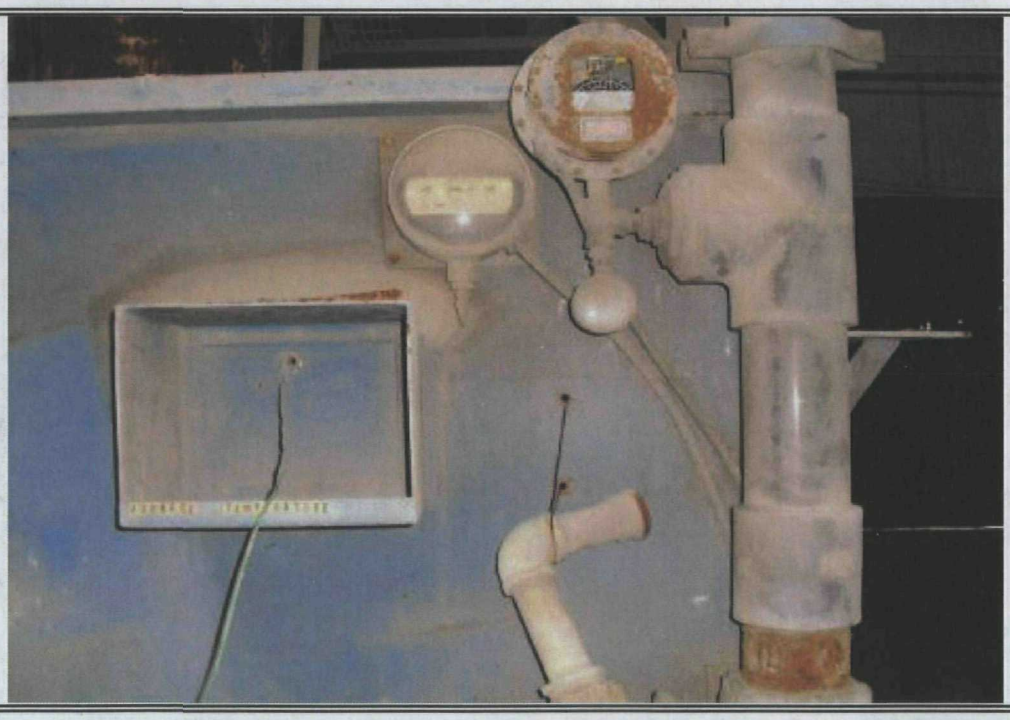
Description:
View of interior of Building C looking east. Center furnace (in photo) had hazardous levels of cadmium in residual samples. West furnace had hazardous levels of lead in residual.

Photo #2

Photographic Log

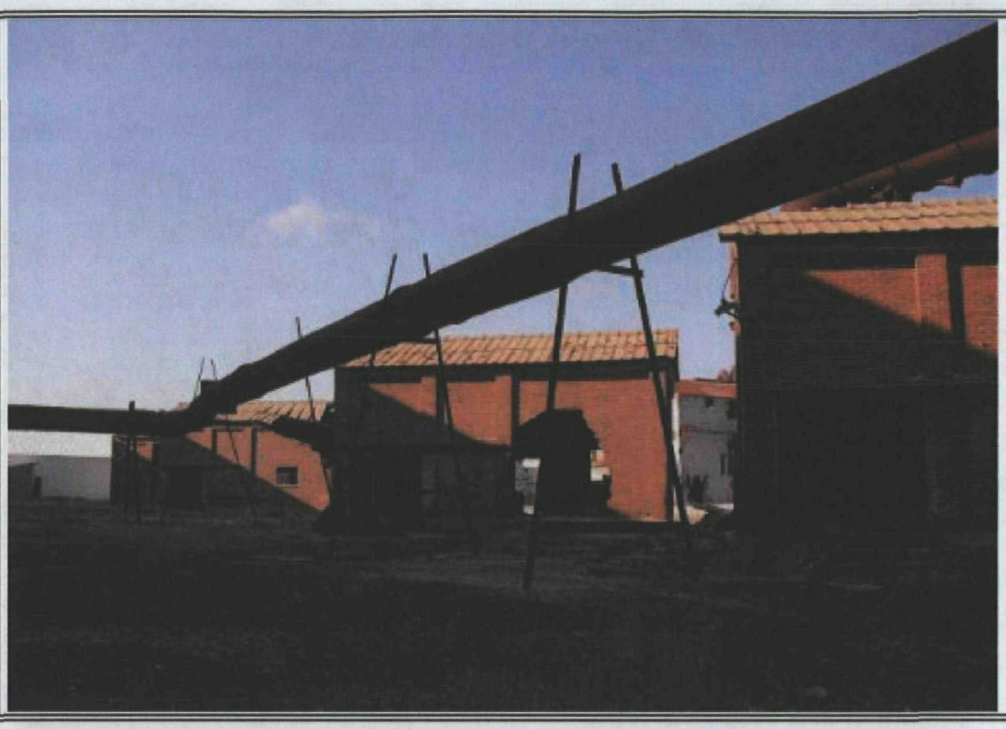
Project Name	Eagle Zinc OU1

Proj: 1515.017.03 Date: 8/23/10 Photographed By: K. Templin	
Description: View of kilns in Building C looking north. Photo #3	

Proj: 1471.001.02 Date: 8/23/10 Photographed By: Scott Dileto	
Description: View of a suspect mercury containing thermostat in Building C. Photo #4	

Photographic Log

Project Name	Eagle Zinc OU1

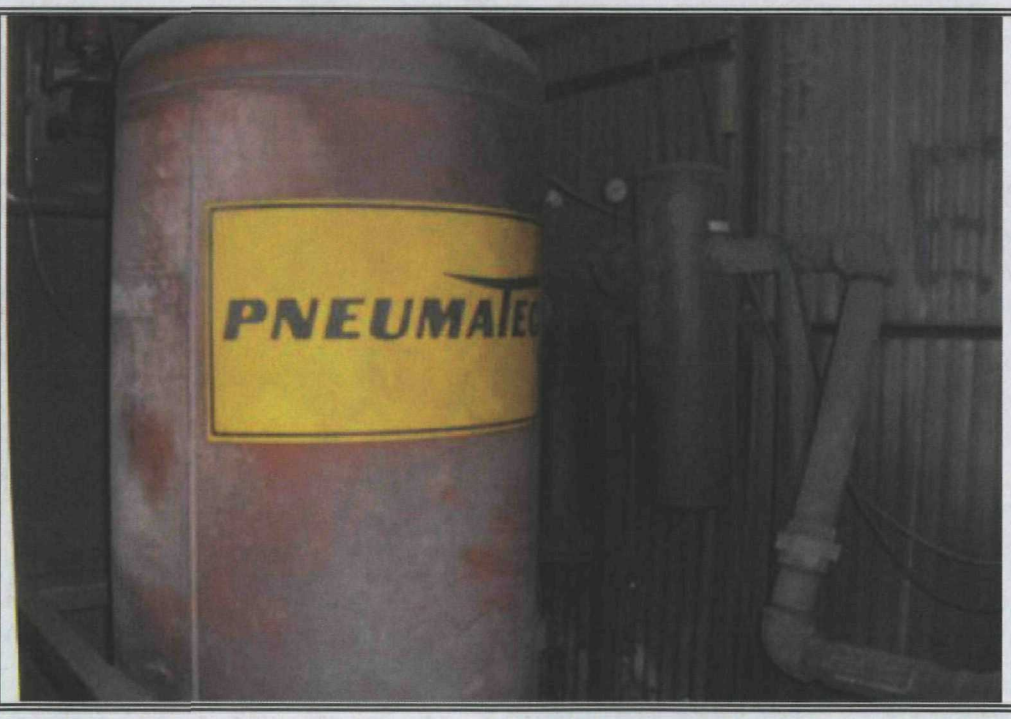
Proj: 1515.017.03 Date: 8/23/10 Photographed By: K. Templin Description: Exterior view of Buildings D2-D5 looking south. Photo #5	

Proj: 1515.017.03 Date: 8/23/10 Photographed By: K. Templin Description: View of a hopper located in Building D1. Photo #6	

Photographic Log

Project Name	Eagle Zinc OU1

Proj: 1515.017.03 Date: 8/23/10 Photographed By: K. Templin	
Description: View of an AST located on the southwest corner of the brick section of Building D1. Photo #7	

Proj: 1515.017.03 Date: 8/23/10 Photographed By: K. Templin	
Description: View of an AST in a tin shed located adjacent to the southwest corner of the brick section of Building D1. Photo #8	

Photographic Log

Project Name	Eagle Zinc OU1

Proj: 1471.001.02
Date: 8/23/10
Photographed By:
Scott Dileto

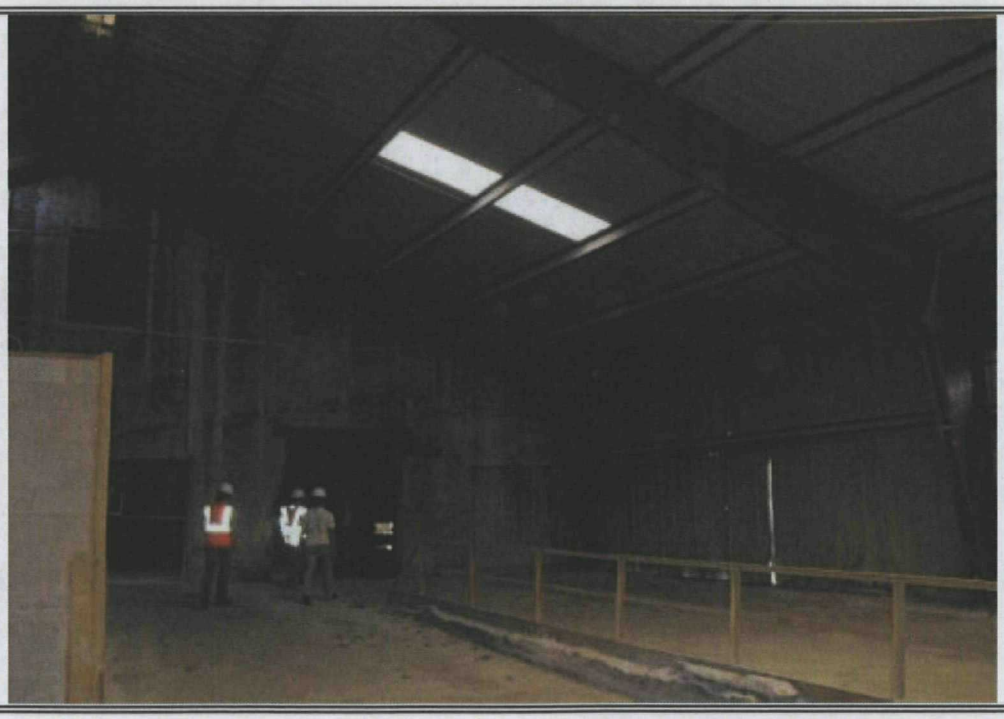
Description:
View of the interior of the south end of Building D1, under the tin roof looking west.

Photo #9

Proj: 1515.017.03
Date: 8/23/10
Photographed By:
K. Templin

Description:
View of the interior of the south end of Building D1, under the tin roof looking east.

Photo #10



Photographic Log

Project Name	Eagle Zinc OU1

Proj: 1515.017.03 Date: 8/23/10 Photographed By: K. Templin	
Description: View of ceiling on the top level in Building D1. Photo #11	

Proj: 1515.017.03 Date: 8/23/10 Photographed By: K. Templin	
Description: View of the conveyor belt in the central room of the south section of Building D1. Photo #12	

Photographic Log

Project Name	Eagle Zinc OU1

Proj: 1515.017.03 Date: 8/23/10 Photographed By: K. Templin Description: View of electric panels in Building D1. Photo #13	

Proj: 1515.017.03 Date: 8/23/10 Photographed By: K. Templin Description: View of electric panels in Building D1. Photo #14	

Photographic Log

Project Name	Eagle Zinc OU1

Proj: 1515.017.03 Date: 8/23/10 Photographed By: K. Templin Description: View of the kiln in Building J. Photo #15	

Proj: 1471.001.02 Date: 8/23/10 Photographed By: Scott Dileto Description: View of the kiln and product in Building J. Photo #16	

Photographic Log

Project Name	Eagle Zinc OU1

Proj: 1515.017.03 Date: 8/23/10 Photographed By: K. Templin Description: View of the standing water in Building F2. Photo #17	

Proj: 1515.017.03 Date: 8/23/10 Photographed By: K. Templin Description: View of the barometers in Building F2, suspect mercury containing. Photo #18	

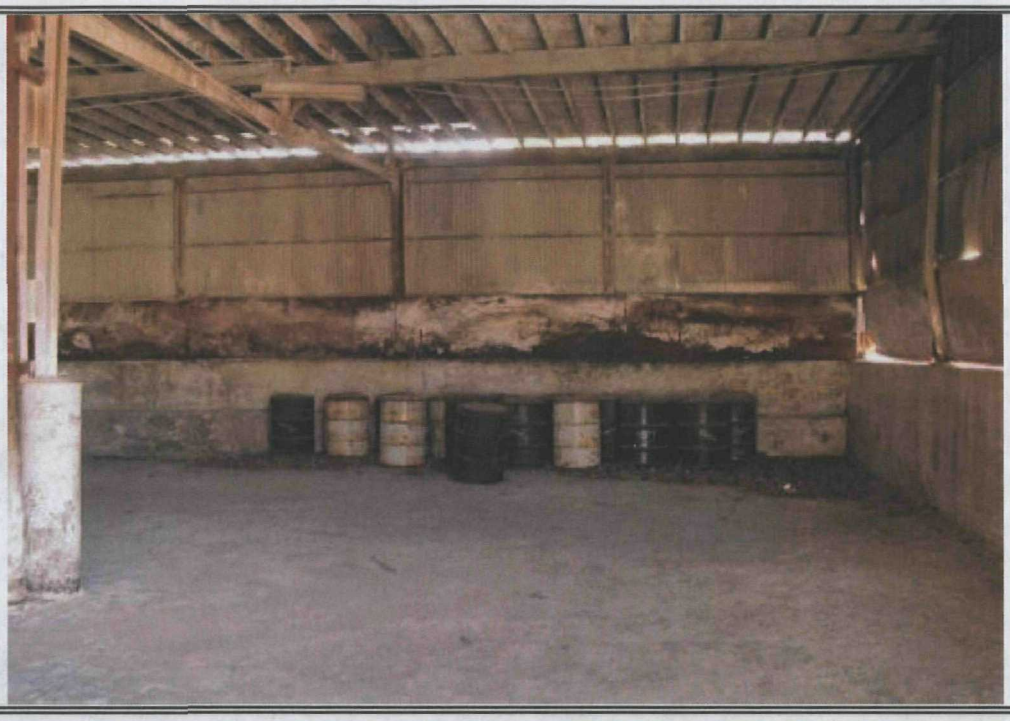
Photographic Log

Project Name	Eagle Zinc OU1

Proj: 1515.017.03
Date: 8/23/10
Photographed By:
K. Templin

Description:
View of barrels marked as "empty" stored in Building G.

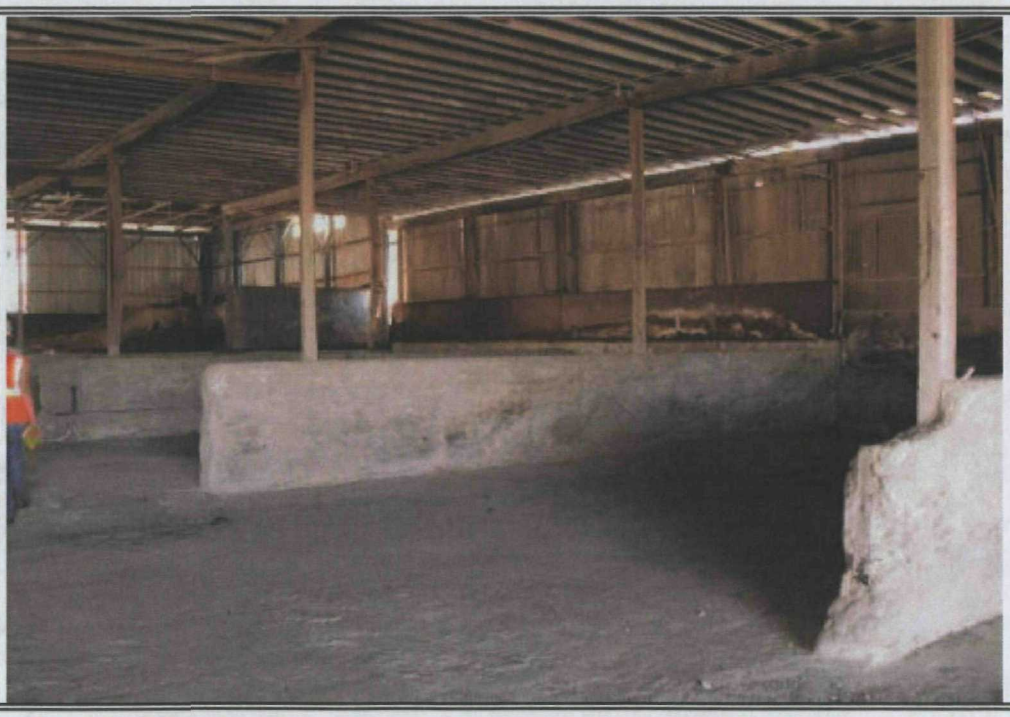
Photo #19



Proj: 1515.017.03
Date: 8/23/10
Photographed By:
K. Templin

Description:
View of the interior of Building G looking northeast.

Photo #20



Photographic Log

Project Name	Eagle Zinc OU1

Proj: 1515.017.03
Date: 8/23/10
Photographed By:
K. Templin

Description:
View of the interior of Building G looking northwest.

Photo #21

Proj: 1515.017.03
Date: 8/23/10
Photographed By:
K. Templin

Description:
View of the interior of Building K looking west.

Photo #22

Photographic Log

Project Name	Eagle Zinc OU1

Proj: 1515.017.03 Date: 8/23/10 Photographed By: K. Templin Description: View of coating on piping in Building H2. Photo #23	

Proj: 1515.017.03 Date: 8/23/10 Photographed By: K. Templin Description: View of coating on piping in Building H2. Photo #24	

Photographic Log

Project Name	Eagle Zinc OU1

Proj: 1515.017.03
Date: 8/23/10
Photographed By:
K. Templin

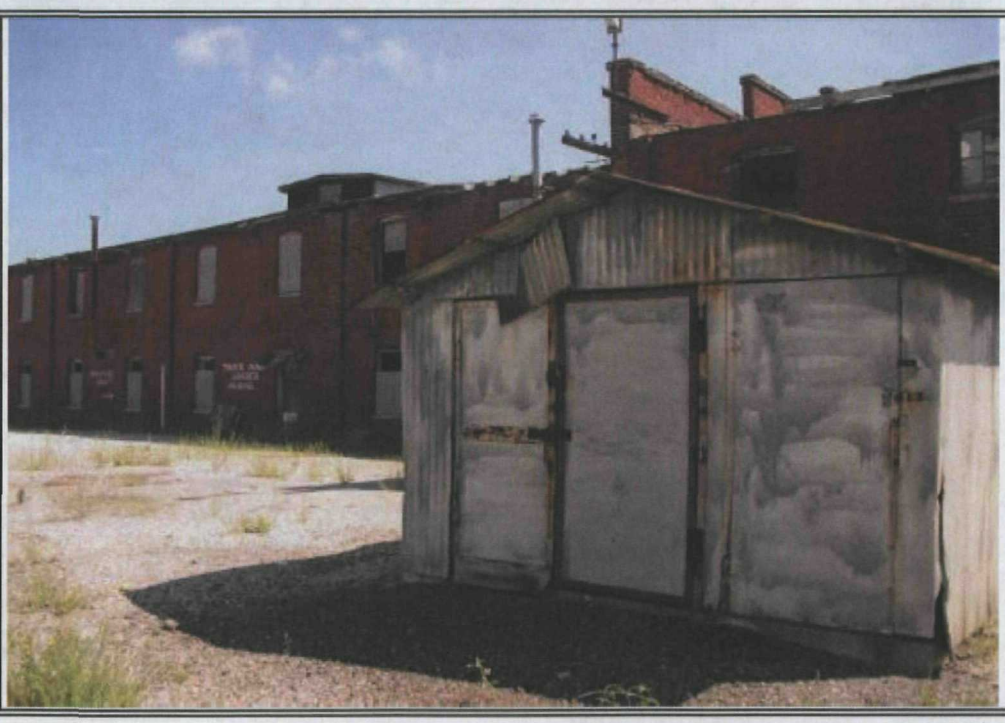
Description:
View of exterior of Building H2 looking northwest and a drum.

Photo #25

Proj: 1515.017.03
Date: 8/23/10
Photographed By:
K. Templin

Description:
View of the exterior of Building M looking northeast.

Photo #26



Photographic Log

Project Name	Eagle Zinc OU1

Proj: 1515.017.03 Date: 8/23/10 Photographed By: K. Templin	
Description: View of the roof from the interior of the garage section of Building M looking east. Photo #27	

Proj: 1515.017.03 Date: 8/23/10 Photographed By: K. Templin	
Description: View of the roof from the interior of the garage section of Building M looking southeast. Photo #28	

Photographic Log

Project Name	Eagle Zinc OU1

Proj: 1515.017.03
Date: 8/23/10
Photographed By:
K. Templin

Description:
View of interior ceiling panels in Building M, suspect asbestos containing.

Photo #29

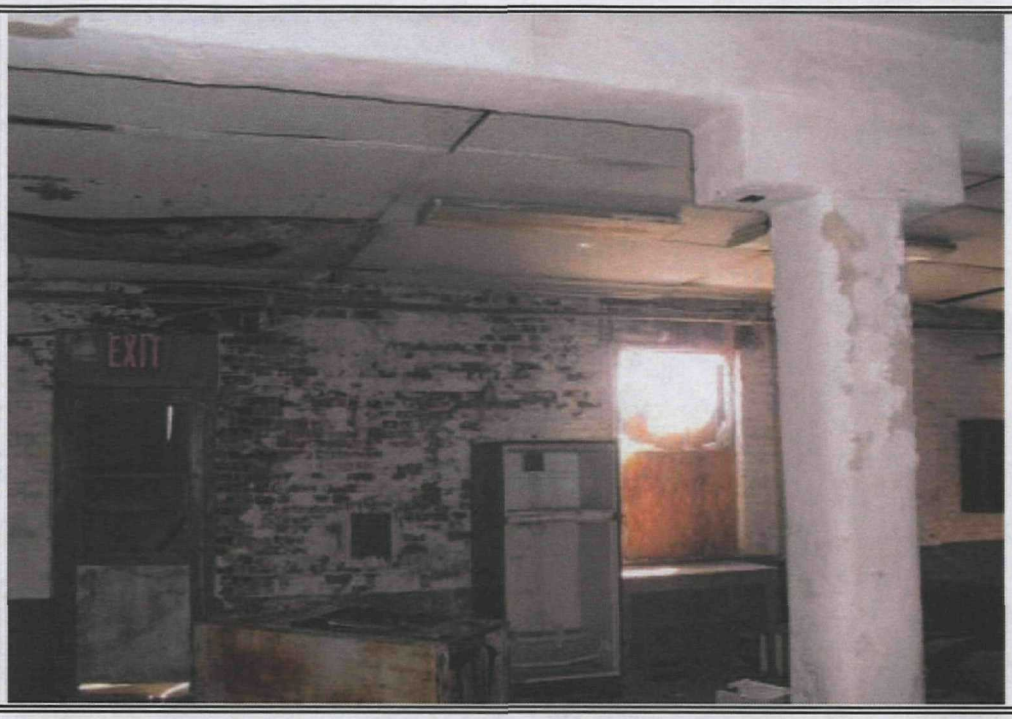
Proj: 1515.017.03
Date: 8/23/10
Photographed By:
K. Templin

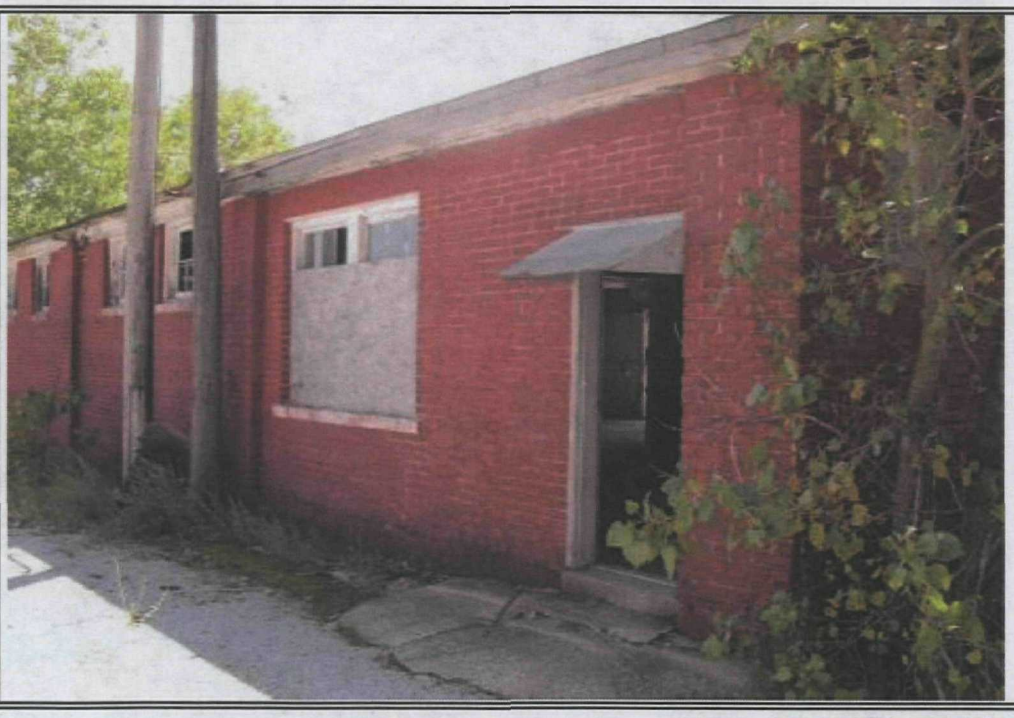
Description:
View of the exterior of Building O looking south.

Photo #30

Photographic Log

Project Name	Eagle Zinc OU1

Proj: 1515.017.03 Date: 8/23/10 Photographed By: K. Templin Description: View of the interior of the cafeteria section in Building M facing east. Photo #31	

Proj: 1515.017.03 Date: 8/23/10 Photographed By: K. Templin Description: View of the exterior of Building P1 looking southeast. Photo #32	

Photographic Log

Project Name	Eagle Zinc OU1

Proj: 1515.017.03 Date: 8/23/10 Photographed By: K. Templin Description: View of the interior of Building P1 looking southwest. Photo #33	

Proj: 1515.017.03 Date: 8/23/10 Photographed By: K. Templin Description: View of the interior roof of Building P1. Photo #34	

Photographic Log

Project Name	Eagle Zinc OU1

Proj: 1515.017.03 Date: 8/23/10 Photographed By: K. Templin Description: View of the interior of Building P1 looking east. Photo #35	

Proj: 1515.017.03 Date: 8/23/10 Photographed By: K. Templin Description: View of the interior ceiling of Building L1. Photo #36	

Photographic Log

Project Name	Eagle Zinc OU1

Proj: 1515.017.03 Date: 8/23/10 Photographed By: K. Templin	
Description: View of the interior of Building L1. Photo #37	

Proj: 1515.017.03 Date: 8/23/10 Photographed By: K. Templin	
Description: View of the flaking paint off of the 2nd story walkway in Building D1, paint chip sample location. Photo #38	

Photographic Log

Project Name	Eagle Zinc OU1

Proj: 1515.017.03 Date: 8/23/10 Photographed By: K. Templin	
Description: View of the exterior of Building D1 product and brick looking south. Photo #39	

Proj: 1515.017.03 Date: 8/23/10 Photographed By: K. Templin	
Description: View of roofing materials from Building D1 looking southwest. Photo #40	

Photographic Log

Project Name	Eagle Zinc OU1

Proj: 1515.017.03 Date: 8/23/10 Photographed By: K. Templin Description: View of roofing materials from Building D1 looking southwest. Photo #41	

Proj: 1515.017.03 Date: 8/23/10 Photographed By: K. Templin Description: View of product in a hopper in Building D1. Photo #42	

Photographic Log

Project Name	Eagle Zinc OU1

Proj: 1515.017.03 Date: 8/23/10 Photographed By: K. Templin	
Description: View of a concrete sample location from Building D1. Photo #43	

Proj: 1515.017.03 Date: 8/23/10 Photographed By: K. Templin	
Description: View of residual sample location located in Building D1. Photo #44	

Photographic Log

Project Name	Eagle Zinc OU1

Proj: 1515.017.03
Date: 8/23/10
Photographed By:
K. Templin

Description:
View of interior of Building N, taken from the exterior.

Photo #45

Proj: 1515.017.03
Date: 8/23/10
Photographed By:
K. Templin

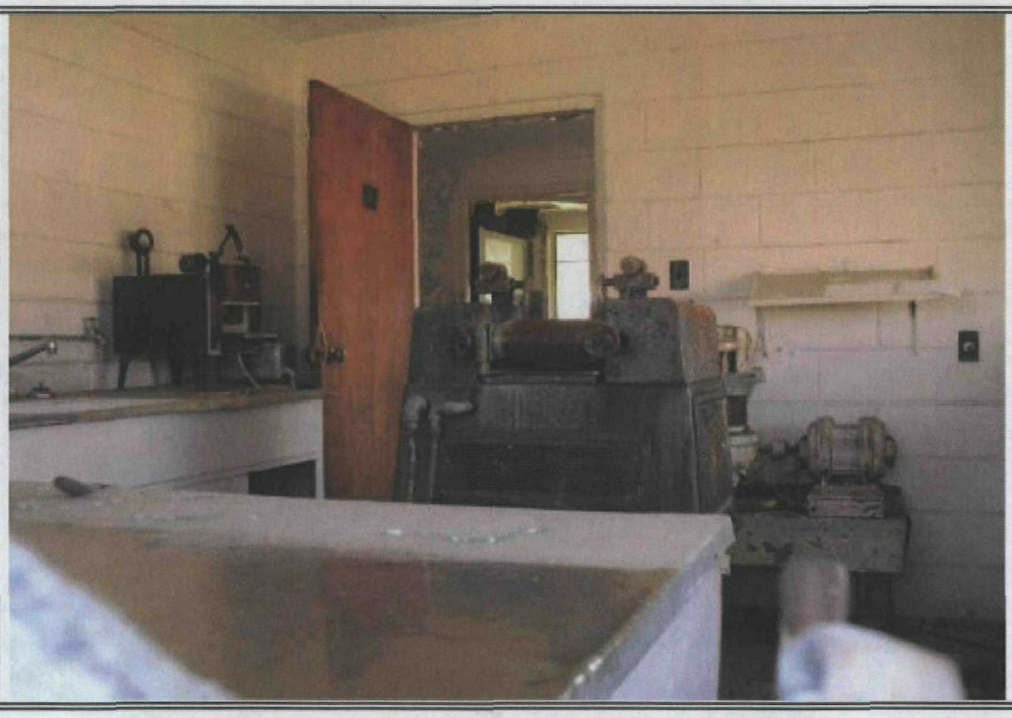
Description:
View of interior of Building N, taken from the exterior.

Photo #46

Photographic Log

Project Name	Eagle Zinc OU1

Proj: 1515.017.03 Date: 8/23/10 Photographed By: K. Templin Description: View of interior of Building N, taken from the exterior. Photo #47	

Proj: 1515.017.03 Date: 8/23/10 Photographed By: K. Templin Description: View of interior of Building N, taken from the exterior. Photo #48	

Photographic Log

Project Name	Eagle Zinc OU1

Proj: 1515.017.03 Date: 8/23/10 Photographed By: K. Templin	
Description: View of interior of Building N, taken from the exterior. Photo #49	

Proj: 1515.017.03 Date: 8/23/10 Photographed By: K. Templin	
Description: View of the exterior of Building O looking southwest. Photo #50	

Photographic Log

Project Name	Eagle Zinc OU1

Proj: 1515.017.03 Date: 8/23/10 Photographed By: K. Templin	
Description: View of the exterior door on Building O, asbestos sample location. Photo #51	

Appendix C: ACM Laboratory Results with Chain of Custody Forms and Laboratory Accreditation

EAGLE ZINC OU1
HILLSBORO, ILLINOIS

ASBESTOS SAMPLE LOG – Building B							
HSA	Sample Number	Material Description	Sample Location	Type	% Asbestos	No Asbestos Detected	Sample Layers tested if more than 1
A-B-HA1	-1	Mortar	Main building N. wall			X	
A-B-HA1	-2	Mortar	Main building E. wall			X	
A-B-HA1	-3	Mortar	Main building S. wall			X	
A-B-HA2	-4	Brick	Main building S. wall			X	
A-B-HA2	-5	Brick	Main building N. wall			X	
A-B-HA2	-6	Brick	Main building E. wall			X	
A-B-HA3	-7	Concrete patching	Tin building extending east, S. wall			X	
A-B-HA3	-8	Concrete patching	Tin building extending east, lower S. wall			X	
A-B-HA3	-9	Concrete patching	Tin building extending east, lower N. wall			X	
A-B-HA4	-10	Cinder block mortar	Inside main building, E. wall			X	
A-B-HA4	-11	Cinder block mortar	Inside main building, S. wall			X	
A-B-HA4	-12	Cinder block mortar	Inside main building, S. wall west			X	
A-B-HA5	-13	Window asphalt paper	Main building north wall west end window			X	
A-B-HA5	-14	Window asphalt paper	Main building east wall south end window			X	

EAGLE ZINC OU1
HILLSBORO, ILLINOIS

ASBESTOS SAMPLE LOG – Building B							
HSA	**Sample Number**	**Material Description**	**Sample Location**	**Type**	**% Asbestos**	**No Asbestos Detected**	**Sample Layers tested if more than 1**
A-B-HA5	**-15**	**Window asphalt paper**	**Main building south wall**	**Chrysotile**	**8.7**		
A-B-HA6	-16	Corrugated metal	Tin building east wall exterior			X	1 & 2
A-B-HA6	-17	Corrugated metal	Tin building north wall east			X	1
A-B-HA6	**-17**	**Black Mastic on Corrugated metal**	**Tin building north wall east**	**Chrysotile**	**0.75**		**2**
A-B-HA6	-18	Corrugated metal	Tin building north wall west			X	1
A-B-HA6	**-18**	**Corrugated metal**	**Tin building north wall west**	**Chrysotile**	**1.2**		**2**

Note: All results greater than 1% are considered asbestos containing.
X = No Asbestos Detected
NA = sample not analyzed due to previous positive sample

EAGLE ZINC OU1
HILLSBORO, ILLINOIS

ASBESTOS SAMPLE LOG – Building C							
HSA	**Sample Number**	**Material Description**	**Sample Location**	**Type**	**% Asbestos**	**No Asbestos Detected**	**Sample Layers tested if more than 1**
A-C-HA7	-19	window glazing	west wall at entrance			X	
A-C-HA7	**-20**	**window glazing**	**south wall at entrance**	**Chrysotile**	**2.8**		
A-C-HA7	-21	window glazing	north wall		NA		
A-C-HA8	**-22**	**window caulk**	**north wall**	**Chrysotile**	**4.2**		
A-C-HA8	-23	window caulk	north wall		NA		
A-C-HA8	-24	window caulk	north wall		NA		
A-C-HA9	-25	vibration dampener	on green dust collector			X	
A-C-HA9	-26	vibration dampener	on green dust collector			X	
A-C-HA9	-27	vibration dampener	on green dust collector			X	
A-C-HA10	-28	brick	east furnace			X	
A-C-HA10	-29	brick	west furnace			X	
A-C-HA10	-30	brick	west furnace duplicate			X	
A-C-HA10	-31	brick	center furnace			X	
A-C-HA11	-32	mortar	east furnace			X	
A-C-HA11	-33	mortar	west furnace			X	
A-C-HA11	-34	mortar	center furnace			X	2
A-C-HA12	-35	plaster	north furnace			X	
A-C-HA12	-36	plaster	north furnace			X	
A-C-HA12	-37	plaster	north furnace			X	
A-C-HA13	-38	mortar	north furnace			X	
A-C-HA13	-39	mortar	north furnace			X	
A-C-HA13	-40	mortar	north furnace			X	

EAGLE ZINC OU1
HILLSBORO, ILLINOIS

ASBESTOS SAMPLE LOG – Building C							
HSA	**Sample Number**	**Material Description**	**Sample Location**	**Type**	**% Asbestos**	**No Asbestos Detected**	**Sample Layers tested if more than 1**
A-C-HA14	-41	brick	north furnace			X	
A-C-HA14	-42	brick	north furnace			X	
A-C-HA14	-43	brick	north furnace			X	
A-C-HA15	-44	insulation-green	east furnace			X	
A-C-HA15	-45	insulation-green	west furnace			X	
A-C-HA15	-46	insulation-green	west furnace			X	
A-C-HA16	**-47**	**pipe sealant**	**north wall central building**	**Chrysotile**	**2.6**		

Note: All results greater than 1% are considered asbestos containing.
X = No Asbestos Detected
NA = sample not analyzed due to previous positive sample

EAGLE ZINC OU1
HILLSBORO, ILLINOIS

ASBESTOS SAMPLE LOG – Building D1							
HSA	Sample Number	Material Description	Sample Location	Type	% Asbestos	No Asbestos Detected	Sample Layers tested if more than 1
A-D1-HA22	-64	roof tar	D1 bottom			X	
A-D1-HA22	**-65**	**roof tar**	**D1 bottom**	**Chrysotile**	**1.5**		
A-D1-HA22	-66	roof tar	D1 bottom		NA		
A-D1-HA22	**-67**	**roof tar**	**D1 top**	**Chrysotile**	**2.2**		
A-D1-HA22	-68	roof tar	D1 top		NA		
A-D1-HA22	-69	roof tar	D1 top		NA		
A-D1-HA23	-70	filtering sock	north end			X	
A-D1-HA23	-71	filtering sock	north end			X	
A-D1-HA23	-72	filtering sock	north end			X	
A-D1-HA24	-73	plaster	concrete wall, west interior north			X	
A-D1-HA24	-74	plaster	concrete wall, west interior central			X	
A-D1-HA24	-75	plaster	concrete wall, west interior south			X	
A-D1-HA25	**-76**	**window glazing**	**exterior window, west wall**	**Chrysotile**	**3.6**		
A-D1-HA25	-77	window glazing	exterior window, west wall		NA		
A-D1-HA25	-78	window glazing	exterior window, west wall		NA		
A-D1-HA26	-79	ceiling tile	north lab			X	
A-D1-HA26	-80	ceiling tile	restroom			X	
A-D1-HA26	-81	ceiling tile	sink area			X	

EAGLE ZINC OU1
HILLSBORO, ILLINOIS

ASBESTOS SAMPLE LOG - Building D1							
HSA	Sample Number	Material Description	Sample Location	Type	% Asbestos	No Asbestos Detected	Sample Layers tested if more than 1
A-D1-HA27	**-82**	**roof**	**walkway**	**Chrysotile**	**2.1**		
A-D1-HA27	-83	roof	walkway		NA		
A-D1-HA27	-84	roof	walkway		NA		
A-D1-HA28	-85	TSI	south end west			X	
A-D1-HA28	-86	TSI	south end east			X	
A-D1-HA28	-87	TSI	south end central			X	

Note: All results greater than 1% are considered asbestos containing.
X = No Asbestos Detected
NA = sample not analyzed due to previous positive sample

EAGLE ZINC OU1
HILLSBORO, ILLINOIS

ASBESTOS SAMPLE LOG – Building D2, D3, & D4							
HSA	**Sample Number**	**Material Description**	**Sample Location**	**Type**	**% Asbestos**	**No Asbestos detected**	**Sample Layers tested if more than 1**
A-D2-HA17	**-48**	**roof sealant**	**D2**	**Chrysotile**	**25**		
A-D2-HA17	-49	roof sealant	D3		NA		
A-D2-HA17	-50	roof sealant	D4		NA		
A-D2-HA18	-51	brown mortar	roof D2			X	
A-D2-HA18	-52	brown mortar	D3	**Chrysotile**	**1.3**		
A-D2-HA18	-53	brown mortar	D4			X	
A-D2-HA19	-54	grey mortar	brick to roof D2			X	
A-D2-HA19	-55	grey mortar	brick to roof D3			X	
A-D2-HA19	-56	grey mortar	brick to roof D3			X	
A-D2-HA20	-57	mortar	brick to brick D2			X	
A-D2-HA20	-58	mortar duplicate	brick to brick D2			X	
A-D2-HA20	-59	mortar	brick to brick D3			X	
A-D2-HA20	-60	mortar	brick to brick D4			X	
A-D2-HA21	-61	brick	D2			X	
A-D2-HA21	-62	brick	D3			X	
A-D2-HA21	-63	brick	D4			X	

Results in yellow were revised during lab QC process.
Note: All results greater than 1% are considered asbestos containing.
X = No Asbestos Detected
NA = sample not analyzed due to previous positive sample

EAGLE ZINC OU1
HILLSBORO, ILLINOIS

ASBESTOS SAMPLE LOG – Building H							
HSA	Sample Number	Material Description	Sample Location	Type	% Asbestos	No Asbestos Detected	Sample Layers tested if more than 1
A-H-HA30	-92	ceiling tile	H			X	
A-H-HA30	-93	ceiling tile	H			X	
A-H-HA30	-94	ceiling tile	H			X	
A-H-HA30	-95	mortar	brick/cinder block south			X	
A-H-HA30	-96	mortar	brick/cinder block north			X	
A-H-HA30	-97	mortar	brick/cinder block west			X	

Note: All results greater than 1% are considered asbestos containing.
X = No Asbestos Detected
NA = sample not analyzed due to previous positive sample

EAGLE ZINC OU1
HILLSBORO, ILLINOIS

ASBESTOS SAMPLE LOG – Buildings H2 & H3							
HSA	Sample Number	Material Description	Sample Location	Type	% Asbestos	No asbestos detected	Sample Layers tested if more than 1
A-H2-HA35	-108	tank insulation	H2			X	
A-H2-HA35	-109	tank insulation	H2			X	
A-H2-HA35	-110	tank insulation	H2			X	
A-H2-HA36	-111	fittings	H2 pipe			X	
A-H2-HA36	-112	fittings	H2 pipe			X	
A-H2-HA36	-113	fittings	H2 pipe			X	
A-H2-HA37	**-114**	**air cell**	**H2 pipe**	**Chrysotile**	**85**		
A-H2-HA37	-115	air cell	H2 pipe		NA		
A-H2-HA37	-116	air cell	H2 pipe		NA		
A-H2-HA38	-117	pipe insulation	H2			X	
A-H2-HA38	-118	pipe insulation	H2			X	
A-H2-HA38	-119	pipe insulation	H2			X	
A-H2-HA39	-120	window glazing	H3	Chrysotile	0.5		
A-H2-HA39	-121	window glazing	H3	Chrysotile	trace		
A-H2-HA39	-122	window glazing	H3	Chrysotile	0.25		
AD-H2-HA39	-123	window glazing duplicate	H3	Chrysotile	0.75		

Note: All results greater than 1% are considered asbestos containing.
X = No Asbestos Detected
NA = sample not analyzed due to previous positive sample

EAGLE ZINC OU1
HILLSBORO, ILLINOIS

ASBESTOS SAMPLE LOG – Building J							
HSA	Sample Number	Material Description	Sample Location	Type	% Asbestos	No Asbestos Detected	Sample Layers tested if more than 1
A-J-HA29	-88	insulation	furnace at metal doors			X	
A-J-HA29	-89	insulation	furnace at metal doors			X	
A-J-HA29	-90	insulation	furnace at metal doors			X	
A-J-HA29	-91	insulation duplicate	furnace at metal doors			X	

Note: All results greater than 1% are considered asbestos containing.
X = No Asbestos Detected
NA = sample not analyzed due to previous positive sample

EAGLE ZINC OU1
HILLSBORO, ILLINOIS

ASBESTOS SAMPLE LOG – Building K							
HSA	Sample Number	Material Description	Sample Location	Type	% Asbestos	No Asbestos Detected	Sample Layers tested if more than 1
A-K-HA32	**-98**	**roofing**	**southside**	**Chrysotile**	**1.2**		
A-K-HA32	-99	roofing	southside		NA		
A-K-HA32	**-100**	**roofing**	**southside**	**Chrysotile**	**4.1**		
A-K-HA32	**-101**	**roofing duplicate**	**southside**	**Chrysotile**	**6.7**		
A-K-HA33	-102	brick	southside			X	
A-K-HA33	-103	brick	southside			X	
A-K-HA33	-104	brick	southside			X	
A-K-HA34	-105	mortar	southside			X	
A-K-HA34	-106	mortar	southside			X	
A-K-HA34	-107	mortar	southside			X	

Note: All results greater than 1% are considered asbestos containing.
X = No Asbestos Detected
NA = sample not analyzed due to previous positive sample

EAGLE ZINC OU1
HILLSBORO, ILLINOIS

ASBESTOS SAMPLE LOG – Building L1							
HSA	Sample Number	Material Description	Sample Location	Asbestos Type	% Asbestos	No Asbestos Detected	Sample Layers tested if more than 1
A-L1-HA40	**-124**	**window caulk/ black tar**	**exterior**	**Chrysotile**	**5.3**		1
A-L1-HA40	**-124**	**tan glazing, window**	**exterior**	**Chrysotile**	**1.4**		2
A-L1-HA40	-125	window caulk	exterior west		NA		
A-L1-HA40	-126	window caulk	exterior west		NA		
A-L1-HA41	-127	mortar	west wall			X	
A-L1-HA41	-128	mortar	west wall			X	
A-L1-HA41	-129	mortar	west wall			X	
A-L1-HA42	-130	window glazing	west area			X	
A-L1-HA42	-131	window glazing	west area			X	
A-L1-HA42	-132	window glazing	west area			X	
A-L1-HA43	-133	brick	west wall			X	
A-L1-HA43	-134	brick	west wall			X	
A-L1-HA43	-135	brick	west wall			X	
A-L1-HA44	**-136**	**door caulk**	**south**	**Chrysotile**	**1.3**		
A-L1-HA44	-137	door caulk	north		NA		
A-L1-HA44	-138	door caulk	east		NA		
A-L1-HA45	**-139**	**lab top**	**west**	**Chrysotile**	**20**		
A-L1-HA45	-140	lab top	east		NA		
A-L1-HA45	-141	lab top	center		NA		
A-L1-HA46	-142	plaster	west room			X	
A-L1-HA46	-143	plaster	north room			X	
A-L1-HA46	-144	plaster	center hallway			X	
A-L1-HA47	-145	plaster 2	north wall - brick behind			X	

EAGLE ZINC OU1
HILLSBORO, ILLINOIS

ASBESTOS SAMPLE LOG – Building L1							
HSA	Sample Number	Material Description	Sample Location	Asbestos Type	% Asbestos	No Asbestos Detected	Sample Layers tested if more than 1
A-L1-HA47	-146	plaster 2	north wall - brick behind			X	
A-L1-HA47	-147	plaster 2	north wall - brick behind			X	
A-L1-HA48	**-148**	**roof**	**bottom**	**Chrysotile**	**3.1**		
A-L1-HA48	-149	roof	middle			X	
A-L1-HA48	-150	roof	top			X	
AD-L1-HA48	-151	roof duplicate	top duplicate			X	
A-L1-HA48	**-152**	**roof**	**bottom**	**Chrysotile**	**4.4**		
A-L1-HA48	-153	roof	middle		NA		
A-L1-HA48	-154	roof	top			X	
A-L1-HA48	**-155**	**roof**	**bottom**	**Chrysotile**	**4.9**		
A-L1-HA48	-156	roof	middle		NA		
A-L1-HA48	-157	roof	top		NA		

Note: All results greater than 1% are considered asbestos containing.
X = No Asbestos Detected
NA = sample not analyzed due to previous positive sample

EAGLE ZINC OU1
HILLSBORO, ILLINOIS

ASBESTOS SAMPLE LOG – Building M							
HSA	Sample Number	Material Description	Sample Location	Type	% Asbestos	No Asbestos Detected	Sample Layers tested if more than 1
A-M-HA66	**-210**	**roof flashing**	**west**	**Chrysotile**	**1.1**		
A-M-HA66	-211	roof flashing	NW		NA		
A-M-HA66	-212	roof flashing	south		NA		
A-M-HA67	-213	roof field multiple layers	west			X	
A-M-HA67	-214	roof field multiple layers	NW	Chrysotile	trace		1
A-M-HA67	**-214**	**roof field multiple layers**	**NW**	**Chrysotile**	**1.3**		2
A-M-HA67	-215	roof field multiple layers	south			X	1
A-M-HA67	-215	roof field multiple layers	south	Chrysotile	trace		2
A-M-HA68	-216	roof caulking	west	Chrysotile	0.5		
A-M-HA68	**-217**	**roof caulking**	**NW**	**Chrysotile**	**1.2**		
A-M-HA68	-218	roof caulking	south		NA		
A-M-HA69	**-219**	**thermal systems air cell**	**garage engineer office west**	**Chrysotile**	**55**		
A-M-HA69	-220	thermal systems air cell	garage engineer office south		NA		
A-M-HA69	-221	thermal systems air cell	interior office area NW		NA		
A-M-HA70	**-222**	**transite**	**break room**	**Chrysotile**	**25**		
A-M-HA70	-223	transite	lunch room		NA		
A-M-HA70	-224	transite	locker room		NA		
AD-M-HA70	-225	transite duplicate	wall of break room				
A-M-HA71	-226	plaster	on support beams of break room			X	
A-M-HA71	-227	plaster	support beam of lunch room			X	
A-M-HA71	-228	plaster	support beam of locker room			X	
A-M-HA72	-229	drywall	locker room east wall			X	
A-M-HA72	-230	drywall	locker room south wall			X	

EAGLE ZINC OU1
HILLSBORO, ILLINOIS

ASBESTOS SAMPLE LOG – Building M							
HSA	Sample Number	Material Description	Sample Location	Type	% Asbestos	No Asbestos Detected	Sample Layers tested if more than 1
A-M-HA72	-231	drywall	locker room east wall			X	
A-M-HA73	-232	drywall joint compound	locker room east wall			X	
A-M-HA73	-233	drywall joint compound	locker room east wall			X	
A-M-HA73	-234	drywall joint compound	locker room south wall			X	
A-M-HA74	-235	2'x4' ceiling tile selio	central office at break room north			X	
A-M-HA74	-236	2'x4' ceiling tile selio	central office at break room east			X	
A-M-HA74	-237	2'x4' ceiling tile selio	central office at break room south			X	
A-M-HA75	-238	2'x4' ceiling tile perforated	central office at break room south			X	
A-M-HA75	-239	2'x4' ceiling tile perforated	central office at break room central			X	
A-M-HA75	-240	2'x4' ceiling tile perforated	central office at break room east			X	
A-M-HA76	-241	12"x12" ceiling tile perforated	garage engineer office			X	
A-M-HA76	-242	12"x12" ceiling tile perforated	garage engineer office			X	
A-M-HA76	-243	12"x12" ceiling tile perforated	garage engineer office			X	
A-M-HA77	**-244**	**door caulk interior**	**garage door north**	**Chrysotile**	**1.7**		
A-M-HA77	-245	door caulk interior	garage door east		NA		
A-M-HA77	-246	door caulk interior	garage door south		NA		
A-M-HA78	-247	exterior window glazing	north			X	
A-M-HA78	-248	exterior window glazing	west			X	
A-M-HA78	-249	exterior window glazing	east			X	
A-M-HA79	-250	exterior window caulking red	south			X	
A-M-HA79	-251	exterior window caulking red	south			X	
A-M-HA79	-252	exterior window caulking red	south			X	
A-M-HA80	-253	exterior window caulking white	east			X	

EAGLE ZINC OU1
HILLSBORO, ILLINOIS

ASBESTOS SAMPLE LOG – Building M							
HSA	Sample Number	Material Description	Sample Location	Type	% Asbestos	No Asbestos Detected	Sample Layers tested if more than 1
A-M-HA80	-254	exterior window caulking white	NE			X	
A-M-HA80	-255	exterior window caulking white	west			X	
AD-M-HA80	-256	exterior window caulking white duplicate	west			X	

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EAGLE ZINC OU1
HILLSBORO, ILLINOIS

ASBESTOS SAMPLE LOG – Building N							
HSA	Sample Number	Material Description	Sample Location	Type	% Asbestos	No asbestos detected	Samples Layers tested if more than 1
A-N-HA49	**-158**	**12"x12" tan floor tile**	**central office**	**Chrysotile**	**10**		1
A-N-HA49	**-158**	**Black mastic on floor tile**	**central office**	**Chrysotile**	**2.1**		2
A-N-HA49	-159	tan/ black mastic/ leveling compound	SE office			X	
A-N-HA49	-160	tan/ black mastic/ leveling compound	SE office			X	
A-N-HA50	**-161**	**tan floor tile**	**SE office north**	**Chrysotile**	**10**		1
A-N-HA50	**-161**	**black mastic**	**SE office north**	**Chrysotile**	**2.2**		2
A-N-HA50	-161	tan/ black mastic/ leveling compound	SE office north			X	3
A-N-HA50	-162-163	tan/ black mastic/ leveling compound	central office south and center			X	
A-N-HA51	**-164**	**12"x12" brown floor tile**	**SE office SE**	**Chrysotile**	**10**		1
A-N-HA51	**-164**	**black mastic on brown floor tile**	**SE office SE**	**Chrysotile**	**1.5**		2
A-N-HA51	-164	black mastic	SE office SE			X	3
A-N-HA51	-165-166	black mastic A/W 12x12 floor tile	SE office E central and north			X	
A-N-HA52	-167	12"x12" ceiling tile	SE office			X	
A-N-HA52	-168	12"x12" ceiling tile	Central office			X	
A-N-HA52	-169	12"x12" ceiling tile	NW office			X	
A-N-HA53	**-170**	**12"x12" grey floor tile**	**NW office SE**	**Chrysotile**	**10**		1
A-N-HA53	**-170**	**black mastic on grey floor tile**	**NW office SE**	**Chrysotile**	**2.5**		2
A-N-HA53	-170	tan/black mastic/ leveling compound	NW office SE			X	3
A-N-HA53	-171-172	tan/ balck mastic/ leveling compound	NW office S & SW			X	
A-N-HA54	-173	12"x12" ceiling tile	SE office closet			X	
A-N-HA54	-174	12"x12" ceiling tile	SE office closet			X	
A-N-HA54	-175	12"x12" ceiling tile	SE office closet			X	
A-N-HA55	**-176**	**transite ceiling panel**	**center mechanical room**	**Chrysotile**	**20**		
A-N-HA55	-177	transite ceiling panel	center mechanical room		NA		
A-N-HA55	-178	transite ceiling panel	center mechanical room		NA		

EAGLE ZINC OU1
HILLSBORO, ILLINOIS

ASBESTOS SAMPLE LOG – Building N							
HSA	Sample Number	Material Description	Sample Location	Type	% Asbestos	No asbestos detected	Samples Layers tested if more than 1
A-N-HA56	**-179**	**window glazing**	**exterior window N**	**Chrysotile**	**1.2**		
A-N-HA56	-180	window glazing	exterior window E		NA		
A-N-HA56	-181	window glazing	exterior window S		NA		
A-N-HA57	-182	roofing material	north			X	
A-N-HA57	-183	roofing material	east			X	
A-N-HA57	-184	roofing material	west			X	

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NA = sample not analyzed due to previous positive sample

EAGLE ZINC OU1
HILLSBORO, ILLINOIS

ASBESTOS SAMPLE LOG – Building O							
HSA	Sample Number	Material Description	Sample Location	Type	% Asbestos	No Asbestos detected	Sample Layers tested if more than 1
A-O-HA58	-185	window glazing	south			X	
A-O-HA58	-186	window glazing	west			X	
A-O-HA58	-187	window glazing	north			X	
A-O-HA59	**-188**	**roofing material caulking**	**east**	**Chrysotile**	**15**		
A-O-HA59	-189	roofing material caulking	north		NA		
A-O-HA59	-190	roofing material caulking	south		NA		
A-O-HA60	-191	roof flashing	east			X	
A-O-HA60	-192	roof flashing	north			X	
A-O-HA60	-193	roof flashing	south			X	
A-O-HA60	-194	roof flashing duplicate	south			X	
A-O-HA61	-195	asphalt shingle	east			X	
A-O-HA61	-196	asphalt shingle	north			X	
A-O-HA61	-197	asphalt shingle	south			X	
A-O-HA62	-198	asphalt roof sealant	east	Chrysotile	Trace		
A-O-HA62	-199	asphalt roof sealant	north	Chrysotile	0.25		
A-O-HA62	-200	asphalt roof sealant	south	Chrysotile	0.25		
A-O-HA63	**-201**	**exterior window caulk**	**east**	**Chrysotile**	**1.4**		
A-O-HA63	-202	exterior window caulk	east		NA		
A-O-HA63	-203	exterior window caulk	west		NA		
A-O-HA64	-204	exterior door caulk	east			X	
A-O-HA64	-205	exterior door caulk	east			X	
A-O-HA64	-206	exterior door caulk	east			X	

Note: All results greater than 1% are considered asbestos containing.
X = No Asbestos Detected
NA = sample not analyzed due to previous positive sample

ASBESTOS SAMPLE LOG – Buildings P1 & P2							
HSA	Sample Number	Material Description	Sample Location	Type	% asbestos	No Asbestos Detected	Sample Layers tested if more than 1
A-P1-HA81	**-257**	**exterior window caulk**	**west**	**Chrysotile**	**1.5**		
A-P1-HA81	-258	exterior window caulk	north		NA		
A-P1-HA81	-259	exterior window caulk	south		NA		
A-P1-HA82	**-260**	**exterior door caulk**	**west**	**Chrysotile**	**3.1**		
A-P1-HA82	-261	exterior door caulk	north		NA		
A-P1-HA82	-262	interior door caulk	east		NA		
A-P1-HA83	-263	interior window glazing	west			X	
A-P1-HA83	-264	interior window glazing	north			X	
A-P1-HA83	-265	interior window glazing	south			X	
A-P1-HA84	-266	asphalt roof field	south			X	
A-P1-HA84	-267	asphalt roof field	SE			X	
A-P1-HA84	-268	asphalt roof field	SW			X	
A-P2-HA85	**-269**	**roof field**	**N central**	**Chrysotile**	**5.3**		
A-P2-HA85	-269	roof field - layers 2 & 3	N central			X	
A-P2-HA85	-270-271	roof field	NE & NW			X	

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CERTIFICATE OF ANALYSIS

Client: Environ. Design International
33 W Monroe, Suite 1825
Chicago IL 60603

Report Date: 9/16/2010
Project: Eagle Zinc Bldg B
Project No.: 1515.017.03

BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 4070239 **Description / Location:** Off-White Mortar
Client No.: A-B-HA1-01 N. Wall Main Building

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	None Detected	None Detected	100

Lab No.: 4070240 **Description / Location:** Off-White Mortar
Client No.: A-B-HA1-02 E. Wall Main Building

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	None Detected	None Detected	100

Lab No.: 4070241 **Description / Location:** Off-White Mortar
Client No.: A-B-HA1-03 S. Wall Main Building

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	None Detected	None Detected	100

Lab No.: 4070242 **Description / Location:** Orange Brick
Client No.: A-B-HA2-04 S. Wall Main Building

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	None Detected	None Detected	100

NIST-NVLAP No. 101165-0 **NY-DOH No. 11021** **AIHA Lab No. 100188**

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Analysis Method: EPA 600/R-93/116

Comments: (PC) Indicates Stratified Point Count Method performed Method not performed unless stated. Quantification at <0.25% by volume is possible with this method. (PC–Trace) represents this limit of quantitation. (PC-Trace) means that asbestos was detected but is not quantifiable under the Point Counting regimen Analysis includes all distinct separable layers in accordance with EPA 600 Method. If not reported or otherwise noted, layer is either not present or the client has specifically requested that it not be analyzed Small asbestos fibers may be missed by PLM due to resolution limitations of the optical microscope. Therefore, negative PLM results cannot be guaranteed. Electron Microscopy can be used as a confirming technique. Regulatory Limit is based upon the sample matrix.

Analysis Performed By: E. Smith

Approved By: Frank E. Ehrenfeld, III
Laboratory Director

Date: 9/2/2010

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33 W Monroe, Suite 1825
Chicago IL 60603

Report Date: 9/16/2010
Project: Eagle Zinc Bldg B
Project No.: 1515.017.03

BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 4070243 **Description / Location:** Lt. Brown Brick
Client No.: A-B-HA2-05 N. Wall Main Building

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	None Detected	None Detected	100

Lab No.: 4070244 **Description / Location:** Lt. Brown Brick
Client No.: A-B-HA2-06 E. Wall Main Building

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	None Detected	None Detected	100

Lab No.: 4070245 **Description / Location:** Grey Concrete
Client No.: A-B-HA3-07 S. Wall Tin Building

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	None Detected	None Detected	100

Lab No.: 4070246 **Description / Location:** Grey Concrete
Client No.: A-B-HA3-08 Lower S. Wall Tin Building

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	None Detected	None Detected	100

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Analysis Performed By: E. Smith

Date: 9/2/2010

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BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 4070247 **Description / Location:** Grey Concrete
Client No.: A-B-HA3-09 Lower N. Wall Tin Building

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	None Detected	None Detected	100

Lab No.: 4070248 **Description / Location:** Off-White Mortar; Cinder Block
Client No.: A-B-HA4-10 E. Wall Main Building

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	None Detected	None Detected	100

Lab No.: 4070249 **Description / Location:** Off-White Mortar; Cinder Block
Client No.: A-B-HA4-11 S. Wall Main Building

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	None Detected	None Detected	100

Lab No.: 4070250 **Description / Location:** Lt. Grey Mortar; Cinder Block
Client No.: A-B-HA4-12 S. Wall Main Building West End

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	None Detected	None Detected	100

NIST-NVLAP No. 101165-0 **NY-DOH No. 11021** **AIHA Lab No. 100188**

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Analysis Method: EPA 600/R-93/116

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BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 4070251
Client No.: A-B-HA5-13
Description / Location: Black/Silver Window Asphalt Paper
N. Wall W.End Window Main Building

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	15	Cellulose	85

Lab No.: 4070252
Client No.: A-B-HA5-14
Description / Location: Black Window Asphalt Paper
E. Wall S.End Main Building

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	25	Cellulose	75

Lab No.: 4070253
Client No.: A-B-HA5-15
Description / Location: Black Window Asphalt Paper
S. Wall Main Building

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
PC 8.7	Chrysotile	15	Cellulose	PC 76.3

NIST-NVLAP No. 101165-0 **NY-DOH No. 11021** **AIHA Lab No. 100188**

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Analysis Method. EPA 600/R-93/116

Comments: (PC) Indicates Stratified Point Count Method performed Method not performed unless stated. Quantification at <0 25% by volume is possible with this method (PC–Trace) represents this limit of quantitation. (PC-Trace) means that asbestos was detected but is not quantifiable under the Point Counting regimen. Analysis includes all distinct separable layers in accordance with EPA 600 Method. If not reported or otherwise noted, layer is either not present or the client has specifically requested that it not be analyzed. Small asbestos fibers may be missed by PLM due to resolution limitations of the optical microscope. Therefore, negative PLM results cannot be guaranteed. Electron Microscopy can be used as a confirming technique. Regulatory Limit is based upon the sample matrix.

Analysis Performed By: E. Smith

Date: 9/2/2010

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CERTIFICATE OF ANALYSIS

Client: Environ. Design International
33 W Monroe, Suite 1825
Chicago IL 60603

Report Date: 9/16/2010
Project: Eagle Zinc Bldg B
Project No.: 1515.017.03

BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 4070254 **Description / Location:** Silver Metal
Client No.: A-B-HA6-16 E. Wall Extterior Tin Building

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	None Detected	None Detected	100

Lab No.: 4070254 **Description / Location:** Black Mastic **Layer No.:** 2
Client No.: A-B-HA6-16 E. Wall Extterior Tin Building

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	None Detected	None Detected	100

Lab No.: 4070255 **Description / Location:** Silver Metal
Client No.: A-B-HA6-17 N. Wall E. End Tin Building

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	None Detected	None Detected	100

Lab No.: 4070255 **Description / Location:** Black Mastic **Layer No.:** 2
Client No.: A-B-HA6-17 N. Wall E. End Tin Building

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
PC 0.75	Chrysotile	None Detected	None Detected	PC 99.25

NIST-NVLAP No. 101165-0 **NY-DOH No. 11021** **AIHA Lab No. 100188**

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Analysis Method: EPA 600/R-93/116

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Analysis Performed By: E. Smith

Date: 9/2/2010

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CERTIFICATE OF ANALYSIS

Client: Environ. Design International
33 W Monroe, Suite 1825
Chicago IL 60603

Report Date: 9/16/2010
Project: Eagle Zinc Bldg B
Project No.: 1515.017.03

BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 4070256 **Description / Location:** Silver Metal
Client No.: A-B-HA6-18 N. Wall W. End Tin Building

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	None Detected	None Detected	100

Lab No.: 4070256 **Description / Location:** Black Mastic **Layer No.:** 2
Client No.: A-B-HA6-18 N. Wall W. End Tin Building

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
PC 1.2	Chrysotile	None Detected	None Detected	PC 98.8

NIST-NVLAP No. 101165-0 **NY-DOH No. 11021** **AIHA Lab No. 100188**

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Analysis Method: EPA 600/R-93/116

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Analysis Performed By: E. Smith

Date: 9/2/2010

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CERTIFICATE OF ANALYSIS

Client: Environ. Design International
33 W Monroe, Suite 1825
Chicago IL 60603

Report Date: 9/16/2010
Project: Eagle Zinc Bldg C
Project No.: 1515.017.03

BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 4070297
Client No.: A-C-HA7-19
Description / Location: Off-White Glazing Window,West Wall At Entrance

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	None Detected	None Detected	100

Lab No.: 4070298
Client No.: A-C-HA7-20
Description / Location: Grey Glazing Window,South Wall At Entrance

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
PC 2.8	Chrysotile	None Detected	None Detected	PC 97.2

Lab No.: 4070299
Client No.: A-C-HA7-21
Description / Location: Sample Not Analyzed

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
Sample Not Analyzed		Sample Not Analyzed		

Lab No.: 4070300
Client No.: A-C-HA8-22
Description / Location: Off-White Window Caulk North Wall

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
PC 4.2	Chrysotile	None Detected	None Detected	PC 95.8

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Analysis Performed By: V. Smith

Approved By: Frank E. Ehrenfeld, III
Laboratory Director

Date: 9/1/2010

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Report Date: 9/16/2010
Project: Eagle Zinc Bldg C
Project No.: 1515.017.03

BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 4070301 **Description / Location:** Sample Not Analyzed
Client No.: A-C-HA8-23

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
Sample Not Analyzed		Sample Not Analyzed		

Lab No.: 4070302 **Description / Location:** Sample Not Analyzed
Client No.: A-C-HA8-24

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
Sample Not Analyzed		Sample Not Analyzed		

Lab No.: 4070303 **Description / Location:** Grey Fibrous/Rubber Vibration Damper
Client No.: A-C-HA9-25

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	10	Synthetic	60
		30	Cellulose	

Lab No.: 4070304 **Description / Location:** Black Rubber Vibration Damper
Client No.: A-C-HA9-26

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	10	Synthetic	90

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Analysis Performed By: V. Smith

Date: 9/1/2010

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Report Date: 9/16/2010
Project: Eagle Zinc Bldg C
Project No.: 1515.017.03

BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 4070305 **Description / Location:** Black Fibrous/Rubber
Client No.: A-C-HA9-27 Vibration Damper

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	20	Cellulose	70
		10	Synthetic	

Lab No.: 4070306 **Description / Location:** Tan Brick
Client No.: A-C-HA10-28 Furnace East

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	None Detected	None Detected	100

Lab No.: 4070307 **Description / Location:** Tan Brick
Client No.: A-C-HA10-29 Furnace West

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	None Detected	None Detected	100

Lab No.: 4070308 **Description / Location:** Tan Brick
Client No.: A-C-HA10-30 Furnace West

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	None Detected	None Detected	100

NIST-NVLAP No. 101165-0 **NY-DOH No. 11021** **AIHA Lab No. 100188**

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Date: 9/1/2010

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Project No.: 1515.017.03

BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 4070309 **Description / Location:** Off-White Brick
Client No.: A-C-HA10-31 Furnace Center

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	None Detected	None Detected	100

Lab No.: 4070310 **Description / Location:** Grey Mortar
Client No.: A-C-HA11-32 Furnace East

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	None Detected	None Detected	100

Lab No.: 4070311 **Description / Location:** Tan Mortar
Client No.: A-C-HA11-33 Furnace West

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	None Detected	None Detected	100

NIST-NVLAP No. 101165-0 **NY-DOH No. 11021** **AIHA Lab No. 100188**

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Date: 9/1/2010

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Report Date: 9/16/2010
Project: Eagle Zinc Bldg C
Project No.: 1515.017.03

BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 4070312 **Description / Location:** Grey Mortar
Client No.: A-C-HA11-34 Furnace West

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	None Detected	None Detected	100

Lab No.: 4070312 **Description / Location:** White Brick **Layer No.:** 2
Client No.: A-C-HA11-34 Furnace West

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	None Detected	None Detected	100

Lab No.: 4070313 **Description / Location:** Off-White Cementitious
Client No.: A-C-HA12-35 N. Furance South Side

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	None Detected	None Detected	100

Lab No.: 4070314 **Description / Location:** White Cementitious
Client No.: A-C-HA12-36 N. Furance South Side

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	None Detected	None Detected	100

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Date: 9/1/2010

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Chicago IL 60603

Report Date: 9/16/2010
Project: Eagle Zinc Bldg C
Project No.: 1515.017.03

BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 4070315 **Description / Location:** White Cementitious
Client No.: A-C-HA12-37 N. Furance East Side

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	None Detected	None Detected	100

Lab No.: 4070316 **Description / Location:** Grey Mortar
Client No.: A-C-HA13-38 N. Furance South Side

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	None Detected	None Detected	100

Lab No.: 4070317 **Description / Location:** Grey Mortar
Client No.: A-C-HA13-39 N. Furance West Side

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	None Detected	None Detected	100

Lab No.: 4070318 **Description / Location:** Grey Mortar
Client No.: A-C-HA13-40 N. Furance West Side

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	None Detected	None Detected	100

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Date: 9/1/2010

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CERTIFICATE OF ANALYSIS

Client: Environ. Design International
33 W Monroe, Suite 1825
Chicago IL 60603

Report Date: 9/16/2010
Project: Eagle Zinc Bldg C
Project No.: 1515.017.03

BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 4070319 **Description / Location:** Off-White Brick
Client No.: A-C-HA14-41 N. Furance West Side

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	None Detected	None Detected	100

Lab No.: 4070320 **Description / Location:** Brown Brick
Client No.: A-C-HA14-42 N. Furance South Side

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	None Detected	None Detected	100

Lab No.: 4070321 **Description / Location:** Brown Brick
Client No.: A-C-HA14-43 N. Furance North Side

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	None Detected	None Detected	100

Lab No.: 4070322 **Description / Location:** Lt. Green Insulation
Client No.: A-C-HA15-44 E. Furance

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	98	Mineral Wool	2

NIST-NVLAP No. 101165-0 **NY-DOH No. 11021** **AIHA Lab No. 100188**

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Analysis Performed By: V. Smith

Date: 9/1/2010

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Client: Environ. Design International
33 W Monroe, Suite 1825
Chicago IL 60603

Report Date: 9/16/2010
Project: Eagle Zinc Bldg C
Project No.: 1515.017.03

BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 4070323 **Description / Location:** Lt. Green Insulation
Client No.: A-C-HA15-45 W. Furance

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	98	Mineral Wool	2

Lab No.: 4070324 **Description / Location:** Lt. Green Insulation
Client No.: A-C-HA15-46 W. Furance

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	98	Mineral Wool	2

Lab No.: 4070325 **Description / Location:** Black Tar
Client No.: A-C-HA16-47 Pipe

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
PC 2.6	Chrysotile	None Detected	None Detected	PC 97.4

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Analysis Performed By: V. Smith

Date: 9/1/2010

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CERTIFICATE OF ANALYSIS

Client: Environ. Design International
33 W Monroe, Suite 1825
Chicago IL 60603

Report Date: 9/16/2010
Project: Eagle Zinc Building D
Project No.: 1515.017.03

BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 4070257 **Description / Location:** Black Roof Material
Client No.: A-D2-HA17-48 Roof Sealant D2

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
25	Chrysotile	None Detected	None Detected	75

Lab No.: 4070258 **Description / Location:** Sample Not Analyzed
Client No.: A-D2-HA17-49

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
Sample Not Analyzed		Sample Not Analyzed		

Lab No.: 4070259 **Description / Location:** Sample Not Analyzed
Client No.: A-D2-HA17-50

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
Sample Not Analyzed		Sample Not Analyzed		

Lab No.: 4070260 **Description / Location:** Brown Roof Mortar
Client No.: A-D2-HA18-51 Roof D2

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	None Detected	None Detected	100

NIST-NVLAP No. 101165-0 **NY-DOH No. 11021** **AIHA Lab No. 100188**

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Analysis Performed By: R. Caran

Approved By: Frank E. Ehrenfeld, III
Laboratory Director

Date: 9/1/2010

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Report Date: 9/16/2010
Project: Eagle Zinc Building D
Project No.: 1515.017.03

BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 4070261 **Description / Location:** Brown Roof Mortar
Client No.: A-D2-HA18-52 Roof D3

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	None Detected	None Detected	100

Lab No.: 4070262 **Description / Location:** Brown Roof Mortar
Client No.: A-D2-HA18-53 Roof D4

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	None Detected	None Detected	100

Lab No.: 4070263 **Description / Location:** Grey Mortar
Client No.: A-D2-HA19-54 D2

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	None Detected	None Detected	100

Lab No.: 4070264 **Description / Location:** Grey Mortar
Client No.: A-D2-HA19-55 D3

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	None Detected	None Detected	100

NIST-NVLAP No. 101165-0 **NY-DOH No. 11021** **AIHA Lab No. 100188**

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Analysis Performed By: R. Caran

Date: 9/1/2010

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Report Date: 9/16/2010
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BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 4070265 **Description / Location:** Grey Mortar
Client No.: A-D2-HA19-56 D3

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	None Detected	None Detected	100

Lab No.: 4070266 **Description / Location:** Grey Mortar
Client No.: A-D2-HA20-57 D2

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	None Detected	None Detected	100

Lab No.: 4070267 **Description / Location:** Grey Mortar
Client No.: A-D2-HA20-58 D2

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	None Detected	None Detected	100

Lab No.: 4070268 **Description / Location:** Grey Mortar
Client No.: A-D2-HA20-59 D3

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	None Detected	None Detected	100

NIST-NVLAP No. 101165-0 **NY-DOH No. 11021** **AIHA Lab No. 100188**

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Analysis Method: EPA 600/R-93/116

Comments: (PC) Indicates Stratified Point Count Method performed. Method not performed unless stated. Quantification at <0.25% by volume is possible with this method. (PC-Trace) represents this limit of quantitation. (PC-Trace) means that asbestos was detected but is not quantifiable under the Point Counting regimen. Analysis includes all distinct separable layers in accordance with EPA 600 Method. If not reported or otherwise noted, layer is either not present or the client has specifically requested that it not be analyzed. Small asbestos fibers may be missed by PLM due to resolution limitations of the optical microscope. Therefore, negative PLM results cannot be guaranteed. Electron Microscopy can be used as a confirming technique. Regulatory Limit is based upon the sample matrix.

Analysis Performed By: R. Caran

Date: 9/1/2010

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CERTIFICATE OF ANALYSIS

Client: Environ. Design International
33 W Monroe, Suite 1825
Chicago IL 60603

Report Date: 9/16/2010
Project: Eagle Zinc Building D
Project No.: 1515.017.03

BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 4070269 **Description / Location:** Grey Mortar
Client No.: A-D2-HA20-60 D4

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	None Detected	None Detected	100

Lab No.: 4070270 **Description / Location:** Red Brick
Client No.: A-D2-HA21-61 D2

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	None Detected	None Detected	100

Lab No.: 4070271 **Description / Location:** Red Brick
Client No.: A-D2-HA21-62 D3

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	None Detected	None Detected	100

Lab No.: 4070272 **Description / Location:** Red Brick
Client No.: A-D2-HA21-63 D4

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	None Detected	None Detected	100

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Analysis Performed By: R. Caran

Date: 9/1/2010

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CERTIFICATE OF ANALYSIS

Client: Environ. Design International
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Chicago IL 60603

Report Date: 9/16/2010
Project: Eagle Zinc Building D
Project No.: 1515.017.03

BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 4070273 **Description / Location:** Black Tar Paper
Client No.: A-D1-HA22-64 Roof D1 Bottom

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	50	Cellulose	50

Lab No.: 4070274 **Description / Location:** Black Tar Paper
Client No.: A-D1-HA22-65 Roof D1 Bottom

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
PC 1.5	Chrysotile	40	Cellulose	PC 58.5

Lab No.: 4070275 **Description / Location:** Sample Not Analyzed
Client No.: A-D1-HA22-66

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
Sample Not Analyzed		Sample Not Analyzed		

Lab No.: 4070276 **Description / Location:** Black Roof Material
Client No.: A-D1-HA22-67 D1 Top

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
PC 2.2	Chrysotile	30	Cellulose	PC 67.8

NIST-NVLAP No. 101165-0 **NY-DOH No. 11021** **AIHA Lab No. 100188**

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Analysis Performed By: R. Caran

Date: 9/1/2010

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Client: Environ. Design International
33 W Monroe, Suite 1825
Chicago IL 60603

Report Date: 9/16/2010
Project: Eagle Zinc Building D
Project No.: 1515.017.03

BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 4070277 **Description / Location:** Sample Not Analyzed
Client No.: A-D1-HA22-68

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
Sample Not Analyzed		Sample Not Analyzed		

Lab No.: 4070278 **Description / Location:** Sample Not Analyzed
Client No.: A-D1-HA22-69

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
Sample Not Analyzed		Sample Not Analyzed		

Lab No.: 4070279 **Description / Location:** Grey Woven Fibers
Client No.: A-D1-HA23-70 Filtering Sock

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	96	Synthetic	4

Lab No.: 4070280 **Description / Location:** Grey Woven Fibers
Client No.: A-D1-HA23-71 Filtering Sock

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	96	Synthetic	4

NIST-NVLAP No. 101165-0 **NY-DOH No. 11021** **AIHA Lab No. 100188**

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Analysis Method: EPA 600/R-93/116

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Analysis Performed By: R. Caran

Date: 9/1/2010

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Client: Environ. Design International
33 W Monroe, Suite 1825
Chicago IL 60603

Report Date: 9/16/2010
Project: Eagle Zinc Building D
Project No.: 1515.017.03

BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 4070281 **Description / Location:** Grey Woven Fibers
Client No.: A-D1-HA23-72 Filtering Sock

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	96	Cellulose	4

Lab No.: 4070282 **Description / Location:** Grey Plaster
Client No.: A-D1-HA24-73 D1

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	None Detected	None Detected	100

Lab No.: 4070283 **Description / Location:** Grey Plaster
Client No.: A-D1-HA24-74 D1

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	None Detected	None Detected	100

Lab No.: 4070284 **Description / Location:** Grey Plaster
Client No.: A-D1-HA24-75 D1

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	None Detected	None Detected	100

NIST-NVLAP No. 101165-0 **NY-DOH No. 11021** **AIHA Lab No. 100188**

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Analysis Method: EPA 600/R-93/116

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Analysis Performed By: R. Caran

Date: 9/1/2010

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CERTIFICATE OF ANALYSIS

Client: Environ. Design International
33 W Monroe, Suite 1825
Chicago IL 60603

Report Date: 9/16/2010
Project: Eagle Zinc Building D
Project No.: 1515.017.03

BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 4070285 **Description / Location:** White Window Glazing
Client No.: A-D1-HA25-76 D1

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
PC 3.6	Chrysotile	None Detected	None Detected	PC 96.4

Lab No.: 4070286 **Description / Location:** Sample Not Analyzed
Client No.: A-D1-HA25-77

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
Sample Not Analyzed		Sample Not Analyzed		

Lab No.: 4070287 **Description / Location:** Sample Not Analyzed
Client No.: A-D1-HA25-78

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
Sample Not Analyzed		Sample Not Analyzed		

Lab No.: 4070288 **Description / Location:** White Ceiling Tile
Client No.: A-D1-HA26-79 D1 N Lab

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	30	Fibrous Glass	10
		60	Cellulose	

NIST-NVLAP No. 101165-0 **NY-DOH No. 11021** **AIHA Lab No. 100188**

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Analysis Performed By: R. Caran

Date: 9/1/2010

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Client: Environ. Design International
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Report Date: 9/16/2010
Project: Eagle Zinc Building D
Project No.: 1515.017.03

BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 4070289 **Description / Location:** White Ceiling Tile
Client No.: A-D1-HA26-80 D1 Restroom

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	30	Fibrous Glass	10
		60	Cellulose	

Lab No.: 4070290 **Description / Location:** White Ceiling Tile
Client No.: A-D1-HA26-81 D1 Sink Area

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	30	Fibrous Glass	10
		60	Cellulose	

Lab No.: 4070291 **Description / Location:** Black Roof Material
Client No.: A-D1-HA27-82 D1 Walkway

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
PC 2.1	Chrysotile	30	Cellulose	PC 67.9

Lab No.: 4070292 **Description / Location:** Sample Not Analyzed
Client No.: A-D1-HA27-83

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
Sample Not Analyzed		Sample Not Analyzed		

NIST-NVLAP No. 101165-0 **NY-DOH No. 11021** **AIHA Lab No. 100188**

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Analysis Performed By: R. Caran

Date: 9/1/2010

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CERTIFICATE OF ANALYSIS

Client: Environ. Design International
33 W Monroe, Suite 1825
Chicago IL 60603

Report Date: 9/16/2010
Project: Eagle Zinc Building D
Project No.: 1515.017.03

BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 4070293 **Description / Location:** Sample Not Analyzed
Client No.: A-D1-HA27-84

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
Sample Not Analyzed		Sample Not Analyzed		

Lab No.: 4070294 **Description / Location:** Off-White Insulation
Client No.: A-D1-HA28-85 D1

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	98	Fibrous Glass	2

Lab No.: 4070295 **Description / Location:** Off-White Insulation
Client No.: A-D1-HA28-86 D1

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	98	Fibrous Glass	2

Lab No.: 4070296 **Description / Location:** Off-White Insulation
Client No.: A-D1-HA28-87 D1

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	98	Fibrous Glass	2

NIST-NVLAP No. 101165-0 **NY-DOH No. 11021** **AIHA Lab No. 100188**

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Analysis Performed By: R. Caran

Date: 9/1/2010

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CERTIFICATE OF ANALYSIS

Client: Environ. Design International
33 W Monroe, Suite 1825
Chicago IL 60603

Report Date: 9/16/2010
Project: Eagle Zine Building D1
Project No.: 1515-017-03

BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 4073073 **Description / Location:** Grey Insulation
Client No.: AD1HA65207 Furnace Door North/Gasket

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
30	Chrysotile	50	Cellulose	20

Lab No.: 4073074 **Description / Location:** Sample Not Analyzed
Client No.: AD1HA65208

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
Sample Not Analyzed		Sample Not Analyzed		

Lab No.: 4073075 **Description / Location:** Sample Not Analyzed
Client No.: AD1HA65209

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
Sample Not Analyzed		Sample Not Analyzed		

NIST-NVLAP No. 101165-0 **NY-DOH No. 11021** **AIHA Lab No. 100188**

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Analysis Performed By: J. Haremza

Approved By: Frank Ehrenfeld

Date: 9/3/2010

Frank E. Ehrenfeld, III
Laboratory Director

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CERTIFICATE OF ANALYSIS

Client: Environ. Design International
33 W Monroe, Suite 1825
Chicago IL 60603

Report Date: 9/16/2010
Project: Eagle Zinc Bldg H
Project No.: 1515.017.03

BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 4070233 **Description / Location:** White/Tan Ceiling Tile
Client No.: A-H-HA30-92

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	35	Cellulose	30
		35	Fibrous Glass	

Lab No.: 4070234 **Description / Location:** White/Tan Ceiling Tile
Client No.: A-H-HA30-93

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	35	Cellulose	30
		35	Fibrous Glass	

Lab No.: 4070235 **Description / Location:** White/Tan Ceiling Tile
Client No.: A-H-HA30-94

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	35	Cellulose	30
		35	Fibrous Glass	

Lab No.: 4070236 **Description / Location:** Tan Mortar
Client No.: A-H-HA30-95

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	None Detected	None Detected	100

NIST-NVLAP No. 101165-0 **NY-DOH No. 11021** **AIHA Lab No. 100188**

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Analysis Performed By: L. Solebello **Approved By:** Frank Ehrenfeld

Date: 9/2/2010

Frank E. Ehrenfeld, III
Laboratory Director

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Report Date: 9/16/2010
Project: Eagle Zinc Bldg H
Project No.: 1515.017.03

BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 4070237 **Description / Location:** Tan Mortar
Client No.: A-H-HA30-96

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	None Detected	None Detected	100

Lab No.: 4070238 **Description / Location:** Tan Mortar
Client No.: A-H-HA30-97

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	None Detected	None Detected	100

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Analysis Performed By: L. Solebello

Date: 9/2/2010

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CERTIFICATE OF ANALYSIS

Client: Environ. Design International
33 W Monroe, Suite 1825
Chicago IL 60603

Report Date: 9/16/2010
Project: Eagle Zine Building H2
Project No.: 1515-017-03

BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 4073057 **Description / Location:** Grey Insulation
Client No.: AH2HA35-108 H2 Tank, Tin Shed E Of Tracks

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	70	Fibrous Glass	30

Lab No.: 4073058 **Description / Location:** Grey Insulation
Client No.: AH2HA35-109 H2 Tank

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	70	Fibrous Glass	30

Lab No.: 4073059 **Description / Location:** Grey Insulation
Client No.: AH2HA35-110 H2 Tank

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	70	Fibrous Glass	30

Lab No.: 4073060 **Description / Location:** Grey Insulation
Client No.: AH2HA36-111 H2 Pipe

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	70	Fibrous Glass	30

NIST-NVLAP No. 101165-0 **NY-DOH No. 11021** **AIHA Lab No. 100188**

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Analysis Method: EPA 600/R-93/116

Comments: (PC) Indicates Stratified Point Count Method performed Method not performed unless stated Quantification at <0.25% by volume is possible with this method (PC–Trace) represents this limit of quantitation. (PC-Trace) means that asbestos was detected but is not quantifiable under the Point Counting regimen. Analysis includes all distinct separable layers in accordance with EPA 600 Method. If not reported or otherwise noted, layer is either not present or the client has specifically requested that it not be analyzed. Small asbestos fibers may be missed by PLM due to resolution limitations of the optical microscope. Therefore, negative PLM results cannot be guaranteed. Electron Microscopy can be used as a confirming technique. Regulatory Limit is based upon the sample matrix

Analysis Performed By: E. Smith

Approved By: Frank Ehrenfeld

Date: 9/2/2010

Frank E. Ehrenfeld, III
Laboratory Director

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CERTIFICATE OF ANALYSIS

Client: Environ. Design International
33 W Monroe, Suite 1825
Chicago IL 60603

Report Date: 9/16/2010
Project: Eagle Zine Building H2
Project No.: 1515-017-03

BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 4073061 **Description / Location:** Grey Insulation
Client No.: AH2HA36-112 H2 Pipe

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	70	Fibrous Glass	30

Lab No.: 4073062 **Description / Location:** Grey Insulation
Client No.: AH2HA36-113 H2 Pipe

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	70	Fibrous Glass	30

Lab No.: 4073063 **Description / Location:** Lt. Grey Insulation
Client No.: AH2HA37-114 H2 Pipe Air Cell

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
85	Chrysotile	10	Cellulose	5

Lab No.: 4073064 **Description / Location:** Sample Not Analyzed
Client No.: AH2HA37-115

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
Sample Not Analyzed		Sample Not Analyzed		

NIST-NVLAP No. 101165-0 **NY-DOH No. 11021** **AIHA Lab No. 100188**

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Analysis Method: EPA 600/R-93/116

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Analysis Performed By: E. Smith

Date: 9/2/2010

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CERTIFICATE OF ANALYSIS

Client: Environ. Design International
33 W Monroe, Suite 1825
Chicago IL 60603

Report Date: 9/16/2010
Project: Eagle Zine Building H2
Project No.: 1515-017-03

BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 4073065 **Description / Location:** Sample Not Analyzed
Client No.: AH2HA37-116

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
Sample Not Analyzed		Sample Not Analyzed		

Lab No.: 4073066 **Description / Location:** Grey Insulation
Client No.: AH2HA38-117 H2 Pipe

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	70	Fibrous Glass	30

Lab No.: 4073067 **Description / Location:** Grey Insulation
Client No.: AH2HA38-118 H2 Pipe

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	70	Fibrous Glass	30

Lab No.: 4073068 **Description / Location:** Grey Insulation
Client No.: AH2HA38-119 H2 Pipe

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	70	Fibrous Glass	30

NIST-NVLAP No. 101165-0 **NY-DOH No. 11021** **AIHA Lab No. 100188**

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Analysis Performed By: E. Smith

Date: 9/2/2010

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CERTIFICATE OF ANALYSIS

Client: Environ. Design International
33 W Monroe, Suite 1825
Chicago IL 60603

Report Date: 9/16/2010
Project: Eagle Zine Building H2
Project No.: 1515-017-03

BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 4073069 **Description / Location:** Lt. Grey Glazing
Client No.: AH2HA39-120 H3 Window

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
PC 0.5	Chrysotile	None Detected	None Detected	PC 99.5

Lab No.: 4073070 **Description / Location:** Tan Glazing
Client No.: AH2HA39-121 H3 Window

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
PC Trace	Chrysotile	None Detected	None Detected	100

Lab No.: 4073071 **Description / Location:** Lt. Grey Glazing
Client No.: AH2HA39-122 H3 Window

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
PC 0.25	Chrysotile	None Detected	None Detected	PC 99.75

Lab No.: 4073072 **Description / Location:** Off-White Glazing
Client No.: AH2HA39-123 H3 Window

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
PC 0.75	Chrysotile	None Detected	None Detected	PC 99.25

NIST-NVLAP No. 101165-0 **NY-DOH No. 11021** **AIHA Lab No. 100188**

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Analysis Performed By: E. Smith

Date: 9/2/2010

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CERTIFICATE OF ANALYSIS

Client: Environ. Design International
33 W Monroe, Suite 1825
Chicago IL 60603

Report Date: 9/16/2010
Project: Eagle Zinc Bldg J
Project No.: 1515.017.03

BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 4070326 **Description / Location:** Tan Insulation
Client No.: A-J-HA2988 J Furnace

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	20	Fibrous Glass	80

Lab No.: 4070327 **Description / Location:** Tan Insulation
Client No.: A-J-HA2989 DJ Furnace

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	20	Fibrous Glass	80

Lab No.: 4070328 **Description / Location:** Tan Insulation
Client No.: A-J-HA2990 J Furnace

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	20	Fibrous Glass	80

Lab No.: 4070329 **Description / Location:** Tan Insulation
Client No.: A-J-HA2991 J Furnace

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	Trace	Cellulose	80
		20	Fibrous Glass	

NIST-NVLAP No. 101165-0 **NY-DOH No. 11021** **AIHA Lab No. 100188**

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Analysis Performed By: L. Solebello

Approved By: Frank Ehrenfeld

Date: 9/2/2010

Frank E. Ehrenfeld, III
Laboratory Director

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CERTIFICATE OF ANALYSIS

Client: Environ. Design International
33 W Monroe, Suite 1825
Chicago IL 60603

Report Date: 9/16/2010
Project: Eagle Zine Building K
Project No.: 1515-017-03

BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 4073076 **Description / Location:** Black Roof Material
Client No.: AKHA3298 South

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
PC 1.2	Chrysotile	20	Cellulose	PC 78.8

Lab No.: 4073077 **Description / Location:** Sample Not Analyzed
Client No.: AKHA3299

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
Sample Not Analyzed		Sample Not Analyzed		

Lab No.: 4073078 **Description / Location:** Black Roof Material
Client No.: AKHA32100 Southeast

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
PC 4.1	Chrysotile	20	Cellulose	PC 60.9
		15	Fibrous Glass	

Lab No.: 4073079 **Description / Location:** Black Roof Material
Client No.: AKHA32101 Southeast

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
PC 6.7	Chrysotile	20	Cellulose	PC 58.3
		15	Fibrous Glass	

NIST-NVLAP No. 101165-0 **NY-DOH No. 11021** **AIHA Lab No. 100188**

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Analysis Performed By: B. Hargrove

Approved By: Frank E. Ehrenfeld

Date: 9/10/2010

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Laboratory Director

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CERTIFICATE OF ANALYSIS

Client: Environ. Design International
33 W Monroe, Suite 1825
Chicago IL 60603

Report Date: 9/16/2010
Project: Eagle Zine Building K
Project No.: 1515-017-03

BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 4073080 **Description / Location:** Orange Brick
Client No.: AKHA33102 South

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	None Detected	None Detected	100

Lab No.: 4073081 **Description / Location:** Orange Brick
Client No.: AKHA33103 South Center

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	None Detected	None Detected	100

Lab No.: 4073082 **Description / Location:** Orange Brick
Client No.: AKHA33104 Southeast

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	None Detected	None Detected	100

Lab No.: 4073083 **Description / Location:** Grey Mortar
Client No.: AKHA34105 South

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	None Detected	None Detected	100

NIST-NVLAP No. 101165-0 **NY-DOH No. 11021** **AIHA Lab No. 100188**

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Analysis Performed By: E. Smith

Date: 9/2/2010

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CERTIFICATE OF ANALYSIS

Client: Environ. Design International
33 W Monroe, Suite 1825
Chicago IL 60603

Report Date: 9/16/2010
Project: Eagle Zine Building K
Project No.: 1515-017-03

BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 4073084 **Description / Location:** Off-White Mortar
Client No.: AKHA34106 South Center

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	None Detected	None Detected	100

Lab No.: 4073085 **Description / Location:** Off-White Mortar
Client No.: AKHA34107 Southeast

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	None Detected	None Detected	100

NIST-NVLAP No. 101165-0 **NY-DOH No. 11021** **AIHA Lab No. 100188**

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Analysis Performed By: E. Smith

Date: 9/2/2010

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CERTIFICATE OF ANALYSIS

Client: Environ. Design International
33 W Monroe, Suite 1825
Chicago IL 60603

Report Date: 9/16/2010
Project: Eagle Zinc Building L1
Project No.: 1515-017-03

BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 4073483 **Description / Location:** Black Tar
Client No.: AL1HA40-124 Window, Exterior

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
PC 5.3	Chrysotile	None Detected	None Detected	PC 94.7

Lab No.: 4073483 **Description / Location:** Tan Caulk **Layer No.:** 2
Client No.: AL1HA40-124 Window, Exterior

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
PC 1.4	Chrysotile	None Detected	None Detected	PC 98.6

Lab No.: 4073484 **Description / Location:** Sample Not Analyzed
Client No.: AL1HA40-125

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
Sample Not Analyzed		Sample Not Analyzed		

Lab No.: 4073485 **Description / Location:** Sample Not Analyzed
Client No.: AL1HA40-126

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
Sample Not Analyzed		Sample Not Analyzed		

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Analysis Performed By: L. Solebello **Approved By:**

Date: 9/3/2010

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CERTIFICATE OF ANALYSIS

Client: Environ. Design International
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Chicago IL 60603

Report Date: 9/16/2010
Project: Eagle Zinc Building L1
Project No.: 1515-017-03

BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 4073486 **Description / Location:** Grey Mortar
Client No.: AL1HA41-127 West Wall

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	None Detected	None Detected	100

Lab No.: 4073487 **Description / Location:** Grey Mortar
Client No.: AL1HA41-128 West Wall

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	None Detected	None Detected	100

Lab No.: 4073488 **Description / Location:** Grey Mortar
Client No.: AL1HA41-129 West Wall

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	None Detected	None Detected	100

Lab No.: 4073489 **Description / Location:** Tan Glazing
Client No.: AL1HA42-130 Window West Area

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	None Detected	None Detected	100

NIST-NVLAP No. 101165-0 **NY-DOH No. 11021** **AIHA Lab No. 100188**

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Analysis Performed By: L. Solebello

Date: 9/3/2010

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33 W Monroe, Suite 1825
Chicago IL 60603

Report Date: 9/16/2010
Project: Eagle Zinc Building L1
Project No.: 1515-017-03

BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 4073490 **Description / Location:** Tan Glazing
Client No.: AL1HA42-131 Window West Area

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	None Detected	None Detected	100

Lab No.: 4073491 **Description / Location:** Off-White Glazing
Client No.: AL1HA42-132 Window West Area

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	None Detected	None Detected	100

Lab No.: 4073492 **Description / Location:** Red Brick
Client No.: AL1HA43-133 W. Wall

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	None Detected	None Detected	100

Lab No.: 4073493 **Description / Location:** Red Brick
Client No.: AL1HA43-134 W. Wall

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	None Detected	None Detected	100

NIST-NVLAP No. 101165-0 **NY-DOH No. 11021** **AIHA Lab No. 100188**

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Analysis Performed By: L. Solebello

Date: 9/3/2010

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Client: Environ. Design International
33 W Monroe, Suite 1825
Chicago IL 60603

Report Date: 9/16/2010
Project: Eagle Zinc Building L1
Project No.: 1515-017-03

BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 4073494 **Description / Location:** Red Brick
Client No.: AL1HA43-135 W. Wall

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	None Detected	None Detected	100

Lab No.: 4073495 **Description / Location:** Tan Caulk
Client No.: AL1HA44-136 Door, South

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
PC 1.3	Chrysotile	None Detected	None Detected	PC 98.7

Lab No.: 4073496 **Description / Location:** Sample Not Analyzed
Client No.: AL1HA44-137

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
Sample Not Analyzed		Sample Not Analyzed		

Lab No.: 4073497 **Description / Location:** Sample Not Analyzed
Client No.: AL1HA44-138

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
Sample Not Analyzed		Sample Not Analyzed		

NIST-NVLAP No. 101165-0 **NY-DOH No. 11021** **AIHA Lab No. 100188**

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Analysis Performed By: L. Solebello

Date: 9/3/2010

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CERTIFICATE OF ANALYSIS

Client: Environ. Design International
33 W Monroe, Suite 1825
Chicago IL 60603

Report Date: 9/16/2010
Project: Eagle Zinc Building L1
Project No.: 1515-017-03

BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 4073498 **Description / Location:** Grey Transite
Client No.: AL1HA45-139 Lab Top, West

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
20	Chrysotile	None Detected	None Detected	80

Lab No.: 4073499 **Description / Location:** Sample Not Analyzed
Client No.: AL1HA45-140

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
Sample Not Analyzed		Sample Not Analyzed		

Lab No.: 4073500 **Description / Location:** Sample Not Analyzed
Client No.: AL1HA45-141

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
Sample Not Analyzed		Sample Not Analyzed		

Lab No.: 4073501 **Description / Location:** Tan Plaster
Client No.: AL1HA46-142 West Room

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	Trace	Hair	100

NIST-NVLAP No. 101165-0 **NY-DOH No. 11021** **AIHA Lab No. 100188**

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Analysis Method: EPA 600/R-93/116

Comments: (PC) Indicates Stratified Point Count Method performed. Method not performed unless stated. Quantification at <0 25% by volume is possible with this method. (PC–Trace) represents this limit of quantitation. (PC-Trace) means that asbestos was detected but is not quantifiable under the Point Counting regimen. Analysis includes all distinct separable layers in accordance with EPA 600 Method. If not reported or otherwise noted, layer is either not present or the client has specifically requested that it not be analyzed. Small asbestos fibers may be missed by PLM due to resolution limitations of the optical microscope. Therefore, negative PLM results cannot be guaranteed. Electron Microscopy can be used as a confirming technique Regulatory Limit is based upon the sample matrix.

Analysis Performed By: L. Solebello

Date: 9/3/2010

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CERTIFICATE OF ANALYSIS

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33 W Monroe, Suite 1825
Chicago IL 60603

Report Date: 9/16/2010
Project: Eagle Zinc Building L1
Project No.: 1515-017-03

BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 4073502 **Description / Location:** Tan Plaster
Client No.: AL1HA46-143 North Room

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	Trace	Hair	100

Lab No.: 4073503 **Description / Location:** Tan Plaster
Client No.: AL1HA46-144 Center Hallway

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	Trace	Hair	100

Lab No.: 4073504 **Description / Location:** Grey Plaster
Client No.: AL1HA47-145 N. Wall Brick Behind

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	None Detected	None Detected	100

Lab No.: 4073505 **Description / Location:** Grey Plaster
Client No.: AL1HA47-146 N. Wall Brick Behind

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	None Detected	None Detected	100

NIST-NVLAP No. 101165-0 **NY-DOH No. 11021** **AIHA Lab No. 100188**

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Analysis Method: EPA 600/R-93/116

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Analysis Performed By: L. Solebello

Date: 9/3/2010

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CERTIFICATE OF ANALYSIS

Client: Environ. Design International
33 W Monroe, Suite 1825
Chicago IL 60603

Report Date: 9/16/2010
Project: Eagle Zinc Building L1
Project No.: 1515-017-03

BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 4073506 **Description / Location:** Grey Plaster
Client No.: AL1HA47-147 N. Wall Brick Behind

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	None Detected	None Detected	100

Lab No.: 4073507 **Description / Location:** Black Roof Material
Client No.: AL1HA48-148 Roof W. Side Bottom

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
PC 3.1	Chrysotile	15	Cellulose	PC 79.7
		5	Hair	

Lab No.: 4073508 **Description / Location:** Black/Grey Shingle
Client No.: AL1HA48-149 Roof W. Side Middle

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	30	Cellulose	70

Lab No.: 4073509 **Description / Location:** Black/Grey Shingle
Client No.: AL1HA48-150 Roof W. Side Top

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	35	Cellulose	65

NIST-NVLAP No. 101165-0 **NY-DOH No. 11021** **AIHA Lab No. 100188**

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Analysis Method: EPA 600/R-93/116

Comments: (PC) Indicates Stratified Point Count Method performed Method not performed unless stated Quantification at <0.25% by volume is possible with this method. (PC–Trace) represents this limit of quantitation. (PC-Trace) means that asbestos was detected but is not quantifiable under the Point Counting regimen. Analysis includes all distinct separable layers in accordance with EPA 600 Method If not reported or otherwise noted, layer is either not present or the client has specifically requested that it not be analyzed. Small asbestos fibers may be missed by PLM due to resolution limitations of the optical microscope Therefore, negative PLM results cannot be guaranteed Electron Microscopy can be used as a confirming technique. Regulatory Limit is based upon the sample matrix.

Analysis Performed By: B. Hargrove

Date: 9/10/2010

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CERTIFICATE OF ANALYSIS

Client: Environ. Design International
33 W Monroe, Suite 1825
Chicago IL 60603

Report Date: 9/16/2010
Project: Eagle Zinc Building L1
Project No.: 1515-017-03

BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 4073510 **Description / Location:** Green/Black Shingle
Client No.: AL1HA48-151 Roof W. Side Top

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	30	Cellulose	65
		5	Hair	

Lab No.: 4073511 **Description / Location:** Black Roof Material
Client No.: AL1HA48-152 Roof N. Side Bottom

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
PC 4.4	Chrysotile	Trace	Cellulose	PC 95.6
		Trace	Hair	

Lab No.: 4073512 **Description / Location:** Sample Not Analyzed
Client No.: AL1HA48-153

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
Sample Not Analyzed		Sample Not Analyzed		

Lab No.: 4073513 **Description / Location:** Green/Black Shingle
Client No.: AL1HA48-154 Roof N. Side Top

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	30	Cellulose	65
		5	Hair	

NIST-NVLAP No. 101165-0 **NY-DOH No. 11021** **AIHA Lab No. 100188**

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Analysis Method: EPA 600/R-93/116

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Analysis Performed By: L. Solebello

Date: 9/3/2010

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Chicago IL 60603

Report Date: 9/16/2010
Project: Eagle Zinc Building L1
Project No.: 1515-017-03

BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 4073514 **Description / Location:** Black Roof Material
Client No.: AL1HA48-155 Roof N. Side Bottom

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
PC 4.9	Chrysotile	None Detected	None Detected	PC 95.1

Lab No.: 4073515 **Description / Location:** Sample Not Analyzed
Client No.: AL1HA48-156

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
Sample Not Analyzed		Sample Not Analyzed		

Lab No.: 4073516 **Description / Location:** Sample Not Analyzed
Client No.: AL1HA48-157

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
Sample Not Analyzed		Sample Not Analyzed		

NIST-NVLAP No. 101165-0 **NY-DOH No. 11021** **AIHA Lab No. 100188**

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Analysis Method: EPA 600/R-93/116

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Analysis Performed By: L. Solebello

Date: 9/3/2010

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CERTIFICATE OF ANALYSIS

Client: Environ. Design International
33 W Monroe, Suite 1825
Chicago IL 60603

Report Date: 9/16/2010
Project: Eagle Zinc Building L1
Project No.: 1515-017-03

BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 4073483 **Description / Location:** Black Tar
Client No.: AL1HA40-124 Window, Exterior

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
PC 5.3	Chrysotile	None Detected	None Detected	PC 94.7

Lab No.: 4073483 **Description / Location:** Tan Caulk **Layer No.:** 2
Client No.: AL1HA40-124 Window, Exterior

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
PC 1.4	Chrysotile	None Detected	None Detected	PC 98.6

Lab No.: 4073484 **Description / Location:** Sample Not Analyzed
Client No.: AL1HA40-125

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
Sample Not Analyzed		Sample Not Analyzed		

Lab No.: 4073485 **Description / Location:** Sample Not Analyzed
Client No.: AL1HA40-126

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
Sample Not Analyzed		Sample Not Analyzed		

NIST-NVLAP No. 101165-0 **NY-DOH No. 11021** **AIHA Lab No. 100188**

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Analysis Method: EPA 600/R-93/116

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Analysis Performed By: L. Solebello **Approved By:**

Date: 9/3/2010

Frank E. Ehrenfeld, III
Laboratory Director

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CERTIFICATE OF ANALYSIS

Client: Environ. Design International
33 W Monroe, Suite 1825
Chicago IL 60603

Report Date: 9/16/2010
Project: Eagle Zinc Building L1
Project No.: 1515-017-03

BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 4073486 **Description / Location:** Grey Mortar
Client No.: AL1HA41-127 West Wall

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	None Detected	None Detected	100

Lab No.: 4073487 **Description / Location:** Grey Mortar
Client No.: AL1HA41-128 West Wall

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	None Detected	None Detected	100

Lab No.: 4073488 **Description / Location:** Grey Mortar
Client No.: AL1HA41-129 West Wall

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	None Detected	None Detected	100

Lab No.: 4073489 **Description / Location:** Tan Glazing
Client No.: AL1HA42-130 Window West Area

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	None Detected	None Detected	100

NIST-NVLAP No. 101165-0 **NY-DOH No. 11021** **AIHA Lab No. 100188**

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Analysis Method: EPA 600/R-93/116

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Analysis Performed By: L. Solebello

Date: 9/3/2010

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Client: Environ. Design International
33 W Monroe, Suite 1825
Chicago IL 60603

Report Date: 9/16/2010
Project: Eagle Zinc Building L1
Project No.: 1515-017-03

BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 4073490 **Description / Location:** Tan Glazing
Client No.: AL1HA42-131 Window West Area

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	None Detected	None Detected	100

Lab No.: 4073491 **Description / Location:** Off-White Glazing
Client No.: AL1HA42-132 Window West Area

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	None Detected	None Detected	100

Lab No.: 4073492 **Description / Location:** Red Brick
Client No.: AL1HA43-133 W. Wall

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	None Detected	None Detected	100

Lab No.: 4073493 **Description / Location:** Red Brick
Client No.: AL1HA43-134 W. Wall

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	None Detected	None Detected	100

NIST-NVLAP No. 101165-0 **NY-DOH No. 11021** **AIHA Lab No. 100188**

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Analysis Method: EPA 600/R-93/116

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Analysis Performed By: L. Solebello

Date: 9/3/2010

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33 W Monroe, Suite 1825
Chicago IL 60603

Report Date: 9/16/2010
Project: Eagle Zinc Building L1
Project No.: 1515-017-03

BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 4073494 **Description / Location:** Red Brick
Client No.: AL1HA43-135 W. Wall

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	None Detected	None Detected	100

Lab No.: 4073495 **Description / Location:** Tan Caulk
Client No.: AL1HA44-136 Door, South

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
PC 1.3	Chrysotile	None Detected	None Detected	PC 98.7

Lab No.: 4073496 **Description / Location:** Sample Not Analyzed
Client No.: AL1HA44-137

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
Sample Not Analyzed		Sample Not Analyzed		

Lab No.: 4073497 **Description / Location:** Sample Not Analyzed
Client No.: AL1HA44-138

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
Sample Not Analyzed		Sample Not Analyzed		

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Analysis Performed By: L. Solebello

Date: 9/3/2010

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Chicago IL 60603

Report Date: 9/16/2010
Project: Eagle Zinc Building L1
Project No.: 1515-017-03

BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 4073498 **Description / Location:** Grey Transite
Client No.: AL1HA45-139 Lab Top, West

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
20	Chrysotile	None Detected	None Detected	80

Lab No.: 4073499 **Description / Location:** Sample Not Analyzed
Client No.: AL1HA45-140

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
Sample Not Analyzed		Sample Not Analyzed		

Lab No.: 4073500 **Description / Location:** Sample Not Analyzed
Client No.: AL1HA45-141

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
Sample Not Analyzed		Sample Not Analyzed		

Lab No.: 4073501 **Description / Location:** Tan Plaster
Client No.: AL1HA46-142 West Room

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	Trace	Hair	100

NIST-NVLAP No. 101165-0 **NY-DOH No. 11021** **AIHA Lab No. 100188**

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Analysis Performed By: L. Solebello

Date: 9/3/2010

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Report Date: 9/16/2010
Project: Eagle Zinc Building L1
Project No.: 1515-017-03

BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 4073502 **Description / Location:** Tan Plaster
Client No.: AL1HA46-143 North Room

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	Trace	Hair	100

Lab No.: 4073503 **Description / Location:** Tan Plaster
Client No.: AL1HA46-144 Center Hallway

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	Trace	Hair	100

Lab No.: 4073504 **Description / Location:** Grey Plaster
Client No.: AL1HA47-145 N. Wall Brick Behind

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	None Detected	None Detected	100

Lab No.: 4073505 **Description / Location:** Grey Plaster
Client No.: AL1HA47-146 N. Wall Brick Behind

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	None Detected	None Detected	100

NIST-NVLAP No. 101165-0 **NY-DOH No. 11021** **AIHA Lab No. 100188**

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Analysis Method: EPA 600/R-93/116

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Analysis Performed By: L. Solebello

Date: 9/3/2010

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Asbestos Testing Laboratories

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Toll Free 877-428-4285
Local: 856-231-9449
Fax: 856-231-9818

CERTIFICATE OF ANALYSIS

Client: Environ. Design International
33 W Monroe, Suite 1825
Chicago IL 60603

Report Date: 9/16/2010
Project: Eagle Zinc Building L1
Project No.: 1515-017-03

BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 4073506 **Description / Location:** Grey Plaster
Client No.: AL1HA47-147 N. Wall Brick Behind

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	None Detected	None Detected	100

Lab No.: 4073507 **Description / Location:** Black Roof Material
Client No.: AL1HA48-148 Roof W. Side Bottom

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
PC 3.1	Chrysotile	15	Cellulose	PC 79.7
		5	Hair	

Lab No.: 4073508 **Description / Location:** Black/Grey Shingle
Client No.: AL1HA48-149 Roof W. Side Middle

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	30	Cellulose	70

Lab No.: 4073509 **Description / Location:** Black/Grey Shingle
Client No.: AL1HA48-150 Roof W. Side Top

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	35	Cellulose	65

NIST-NVLAP No. 101165-0 **NY-DOH No. 11021** **AIHA Lab No. 100188**

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Analysis Method: EPA 600/R-93/116

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Analysis Performed By: B. Hargrove

Date: 9/10/2010

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BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 4073510 **Description / Location:** Green/Black Shingle
Client No.: AL1HA48-151 Roof W. Side Top

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	30	Cellulose	65
		5	Hair	

Lab No.: 4073511 **Description / Location:** Black Roof Material
Client No.: AL1HA48-152 Roof N. Side Bottom

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
PC 4.4	Chrysotile	Trace	Cellulose	PC 95.6
		Trace	Hair	

Lab No.: 4073512 **Description / Location:** Sample Not Analyzed
Client No.: AL1HA48-153

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
Sample Not Analyzed		Sample Not Analyzed		

Lab No.: 4073513 **Description / Location:** Green/Black Shingle
Client No.: AL1HA48-154 Roof N. Side Top

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	30	Cellulose	65
		5	Hair	

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Analysis Performed By: L. Solebello

Date: 9/3/2010

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BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 4073514 **Description / Location:** Black Roof Material
Client No.: AL1HA48-155 Roof N. Side Bottom

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
PC 4.9	Chrysotile	None Detected	None Detected	PC 95.1

Lab No.: 4073515 **Description / Location:** Sample Not Analyzed
Client No.: AL1HA48-156

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
Sample Not Analyzed		Sample Not Analyzed		

Lab No.: 4073516 **Description / Location:** Sample Not Analyzed
Client No.: AL1HA48-157

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
Sample Not Analyzed		Sample Not Analyzed		

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BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 4073389 **Description / Location:** Black Shingle/Roof Material
Client No.: AMHA66-210 Roof Flashing West

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
PC 1.1	Chrysotile	20	Cellulose	PC 78.9

Lab No.: 4073390 **Description / Location:** Sample Not Analyzed
Client No.: AMHA66-211

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
Sample Not Analyzed		Sample Not Analyzed		

Lab No.: 4073391 **Description / Location:** Sample Not Analyzed
Client No.: AMHA66-212

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
Sample Not Analyzed		Sample Not Analyzed		

Lab No.: 4073392 **Description / Location:** Black Roof Material
Client No.: AMHA67-213 Roof Field West

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	20	Cellulose	80

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Analysis Performed By: J. Haremza **Approved By:** Frank Ehrenfeld

Date: 9/3/2010

Frank E. Ehrenfeld, III
Laboratory Director

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BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 4073393 **Description / Location:** Black Shingle/Tar
Client No.: AMHA67-214 Roof Field NW

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
PC Trace	Chrysotile	20	Cellulose	80

Lab No.: 4073393 **Description / Location:** Black Roof Material **Layer No.:** 2
Client No.: AMHA67-214 Roof Field NW

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
PC 1.3	Chrysotile	30	Cellulose	PC 68.7

Lab No.: 4073394 **Description / Location:** Black Shingle
Client No.: AMHA67-215 Roof Field South

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	20	Cellulose	80

Lab No.: 4073394 **Description / Location:** Black Roof Material **Layer No.:** 2
Client No.: AMHA67-215 Roof Field South

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
PC Trace	Chrysotile	15	Cellulose	85

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BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 4073395 **Description / Location:** Black Tar
Client No.: AMHA68-216 Roof Caulk West

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
PC 0.5	Chrysotile	None Detected	None Detected	PC 99.5

Lab No.: 4073396 **Description / Location:** Black Caulk
Client No.: AMHA68-217 Roof NW

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
PC 1.2	Chrysotile	None Detected	None Detected	PC 98.8

Lab No.: 4073397 **Description / Location:** Sample Not Analyzed
Client No.: AMHA68-218

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
Sample Not Analyzed		Sample Not Analyzed		

Lab No.: 4073398 **Description / Location:** Grey Insulation
Client No.: AMHA69-219 Roof South

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
55	Chrysotile	35	Cellulose	10

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BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 4073399 **Description / Location:** Sample Not Analyzed
Client No.: AMHA69-220

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
Sample Not Analyzed		Sample Not Analyzed		

Lab No.: 4073400 **Description / Location:** Sample Not Analyzed
Client No.: AMHA69-221

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
Sample Not Analyzed		Sample Not Analyzed		

Lab No.: 4073401 **Description / Location:** Tan Transite Break Room
Client No.: AMHA70-222

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
25	Chrysotile	None Detected	None Detected	75

Lab No.: 4073402 **Description / Location:** Sample Not Analyzed
Client No.: AMHA70-223

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
Sample Not Analyzed		Sample Not Analyzed		

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BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 4073403 **Description / Location:** Grey Transite
Client No.: AMHA70-224 Locker Room

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
25	Chrysotile	None Detected	None Detected	75

Lab No.: 4073404 **Description / Location:** Grey Transite
Client No.: ADMHA70-225 Wall Of Break Room

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
25	Chrysotile	None Detected	None Detected	75

Lab No.: 4073405 **Description / Location:** Tan Plaster
Client No.: AMHA71-226 On Support Beam Break Room

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	None Detected	None Detected	100

Lab No.: 4073406 **Description / Location:** Tan Plaster
Client No.: AMHA71-227 Lunch Room

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	None Detected	None Detected	100

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BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 4073407 **Description / Location:** Tan Plaster
Client No.: AMHA71-228 Locker Room

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	None Detected	None Detected	100

Lab No.: 4073408 **Description / Location:** White/Brown Sheetrock
Client No.: AMHA72-229 Locker Room E Wall

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	15	Cellulose	85

Lab No.: 4073409 **Description / Location:** White/Brown Sheetrock
Client No.: AMHA72-230 Locker Room S Wall

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	10	Cellulose	90

Lab No.: 4073410 **Description / Location:** White/Brown Sheetrock
Client No.: AMHA72-231 Locker Room E Wall

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	10	Cellulose	90

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BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 4073411 **Description / Location:** White Joint Compound
Client No.: AMHA73-232 Locker Room E Wall

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	None Detected	None Detected	100

Lab No.: 4073412 **Description / Location:** White Joint Compound
Client No.: AMHA73-233 Locker Room E Wall

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	None Detected	None Detected	100

Lab No.: 4073413 **Description / Location:** White Joint Compound
Client No.: AMHA73-234 Locker Room S Wall

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	None Detected	None Detected	100

Lab No.: 4073414 **Description / Location:** Tan/White Ceiling Tile; 2x4
Client No.: AMHA74-235 Central Office @ Break Room N

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	80	Cellulose	20

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BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 4073415 **Description / Location:** Tan/White Ceiling Tile; 2x4
Client No.: AMHA74-236 Central Office @ Break Room E

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	80	Cellulose	20

Lab No.: 4073416 **Description / Location:** Tan/White Ceiling Tile; 2x4
Client No.: AMHA74-237 Central Office @ Break Room S

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	80	Cellulose	20

Lab No.: 4073417 **Description / Location:** Tan/White Ceiling Tile; 2x4
Client No.: AMHA75-238 Central Office @ Break Room S

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	30	Cellulose	30
		40	Mineral Wool	

Lab No.: 4073418 **Description / Location:** Tan/White Ceiling Tile; 2x4
Client No.: AMHA75-239 Central Office @ Break Room Center

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	30	Cellulose	30
		40	Mineral Wool	

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Project No.: 1515.017.03

BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 4073419 **Description / Location:** Tan/White Ceiling Tile; 2x4
Client No.: AMHA75-240 Central Office @ Break Room E

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	30	Cellulose	30
		40	Mineral Wool	

Lab No.: 4073420 **Description / Location:** Tan/White Ceiling Tile; 12x12
Client No.: AMHA76-241 Garage Office

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	80	Cellulose	20

Lab No.: 4073421 **Description / Location:** Tan/White Ceiling Tile; 12x12
Client No.: AMHA76-242 Garage Office

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	80	Cellulose	20

Lab No.: 4073422 **Description / Location:** Tan/White Ceiling Tile; 12x12
Client No.: AMHA76-243 Garage Office

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	80	Cellulose	20

NIST-NVLAP No. 101165-0 **NY-DOH No. 11021** **AIHA Lab No. 100188**

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Analysis Method: EPA 600/R-93/116

Comments: (PC) Indicates Stratified Point Count Method performed Method not performed unless stated. Quantification at <0.25% by volume is possible with this method. (PC-Trace) represents this limit of quantitation. (PC-Trace) means that asbestos was detected but is not quantifiable under the Point Counting regimen. Analysis includes all distinct separable layers in accordance with EPA 600 Method. If not reported or otherwise noted, layer is either not present or the client has specifically requested that it not be analyzed. Small asbestos fibers may be missed by PLM due to resolution limitations of the optical microscope. Therefore, negative PLM results cannot be guaranteed. Electron Microscopy can be used as a confirming technique. Regulatory Limit is based upon the sample matrix.

Analysis Performed By: J. Haremza

Date: 9/3/2010

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CERTIFICATE OF ANALYSIS

Client: Environ. Design International
33 W Monroe, Suite 1825
Chicago IL 60603

Report Date: 9/16/2010
Project: Eagle Zinc Building M
Project No.: 1515.017.03

BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 4073423 **Description / Location:** Tan Door Caulk; Interior Garage Door N
Client No.: AMHA77-244

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
PC 1.7	Chrysotile	None Detected	None Detected	PC 98.3

Lab No.: 4073424 **Description / Location:** Sample Not Analyzed
Client No.: AMHA77-245

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
Sample Not Analyzed		Sample Not Analyzed		

Lab No.: 4073425 **Description / Location:** Sample Not Analyzed
Client No.: AMHA77-246

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
Sample Not Analyzed		Sample Not Analyzed		

Lab No.: 4073426 **Description / Location:** White Window Glazing; Exterior N
Client No.: AMHA78-247

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	None Detected	None Detected	100

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Project No.: 1515.017.03

BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 4073427 **Description / Location:** White Window Glazing; Exterior
Client No.: AMHA78-248 W

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	None Detected	None Detected	100

Lab No.: 4073428 **Description / Location:** White Window Glazing; Exterior
Client No.: AMHA78-249 E

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	None Detected	None Detected	100

Lab No.: 4073429 **Description / Location:** Clear Window Caulk; Exterior
Client No.: AMHA79-250 S

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	None Detected	None Detected	100

Lab No.: 4073430 **Description / Location:** Clear Window Caulk; Exterior
Client No.: AMHA79-251 S

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	None Detected	None Detected	100

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Chicago IL 60603

Report Date: 9/16/2010
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Project No.: 1515.017.03

BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 4073431 **Description / Location:** Clear Window Caulk; Exterior
Client No.: AMHA79-252 S

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	None Detected	None Detected	100

Lab No.: 4073432 **Description / Location:** White Window Glazing; Exterior
Client No.: AMHA80-253 E

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	None Detected	None Detected	100

Lab No.: 4073433 **Description / Location:** White Window Glazing; Exterior
Client No.: AMHA80-254 NE

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	None Detected	None Detected	100

Lab No.: 4073433 **Description / Location:** Grey Cementitious **Layer No.:** 2
Client No.: AMHA80-254 NE

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	None Detected	None Detected	100

NIST-NVLAP No. 101165-0 **NY-DOH No. 11021** **AIHA Lab No. 100188**

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Project No.: 1515.017.03

BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 4073434 **Description / Location:** White Window Glazing; Exterior
Client No.: AMHA80-255 W

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	None Detected	None Detected	100

Lab No.: 4073435 **Description / Location:** White Window Glazing; Exterior
Client No.: ADMHA80-256 W

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	None Detected	None Detected	100

Lab No.: 4073435 **Description / Location:** Grey Cementitious **Layer No.:** 2
Client No.: ADMHA80-256 W

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	None Detected	None Detected	100

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Analysis Performed By: J. Haremza

Date: 9/3/2010

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Client: Environ. Design International
33 W Monroe, Suite 1825
Chicago IL 60603

Report Date: 9/15/2010
Project: Eagle Zinc, Building N
Project No.: 1515-017-03

BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 4073517 **Description / Location:** Tan Floor Tile; 12x12
Client No.: ANHA49-158 Central Office

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
10	Chrysotile	None Detected	None Detected	90

Lab No.: 4073517 **Description / Location:** Black Mastic **Layer No.:** 2
Client No.: ANHA49-158 Central Office

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
PC 2.1	Chrysotile	None Detected	None Detected	PC 97.9

Lab No.: 4073517 **Description / Location:** Tan/Black Mastic/Leveling Compound **Layer No.:** 3
Client No.: ANHA49-158 Central Office

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	None Detected	None Detected	100

Lab No.: 4073518 **Description / Location:** Tan/Black Mastic/Leveling Compound
Client No.: ANHA49-159 SE Office

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	None Detected	None Detected	100

NIST-NVLAP No. 101165-0 **NY-DOH No. 11021** **AIHA Lab No. 100188**

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Analysis Performed By: B. Faulseit **Approved By:**

Date: 9/4/2010

Frank E. Ehrenfeld, III
Laboratory Director

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Chicago IL 60603

Report Date: 9/15/2010
Project: Eagle Zinc, Building N
Project No.: 1515-017-03

BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 4073519 **Description / Location:** Tan/Black Mastic/Leveling Compound
Client No.: ANHA49-160 NW Office

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	None Detected	None Detected	100

Lab No.: 4073520 **Description / Location:** Tan Floor Tile
Client No.: ANHA50-161 SE Office N

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
10	Chrysotile	None Detected	None Detected	90

Lab No.: 4073520 **Description / Location:** Black Mastic **Layer No.:** 2
Client No.: ANHA50-161 SE Office N

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
PC 2.2	Chrysotile	None Detected	None Detected	PC 97.8

Lab No.: 4073520 **Description / Location:** Tan/Black Mastic/Leveling Compound **Layer No.:** 3
Client No.: ANHA50-161 SE Office N

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	None Detected	None Detected	100

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Date: 9/4/2010

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33 W Monroe, Suite 1825
Chicago IL 60603

Report Date: 9/15/2010
Project: Eagle Zinc, Building N
Project No.: 1515-017-03

BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 4073521
Client No.: ANHA50-162
Description / Location: Tan/Black Mastic/Leveling Compound
SE Office S

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	None Detected	None Detected	100

Lab No.: 4073522
Client No.: ANHA50-163
Description / Location: Tan/Black Mastic/Leveling Compound
Central Office Center

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	None Detected	None Detected	100

NIST-NVLAP No. 101165-0 **NY-DOH No. 11021** **AIHA Lab No. 100188**

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Date: 9/4/2010

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Chicago IL 60603

Report Date: 9/15/2010
Project: Eagle Zinc, Building N
Project No.: 1515-017-03

BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 4073523 **Description / Location:** Brown Floor Tile; 12x12
Client No.: ANHA51-164 SE Office SE

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
10	Chrysotile	None Detected	None Detected	90

Lab No.: 4073523 **Description / Location:** Black Mastic **Layer No.:** 2
Client No.: ANHA51-164 SE Office SE

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
PC 1.5	Chrysotile	None Detected	None Detected	PC 98.5

Lab No.: 4073523 **Description / Location:** Tan Mastic **Layer No.:** 3
Client No.: ANHA51-164 SE Office SE

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	None Detected	None Detected	100

Lab No.: 4073524 **Description / Location:** Tan Mastic A/W 12x12 Floor Tile
Client No.: ANHA51-165 SE Office E Central

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	None Detected	None Detected	100

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BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 4073525 **Description / Location:** Tan Mastic A/W 12x12 Floor Tile
Client No.: ANHA51-166 SE Office North

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	None Detected	None Detected	100

Lab No.: 4073526 **Description / Location:** Tan Ceiling Tile; 12x12
Client No.: ANHA52-167 SE Office

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	100	Cellulose	None Detected

Lab No.: 4073527 **Description / Location:** Tan Ceiling Tile; 12x12
Client No.: ANHA52-168 Central Office

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	100	Cellulose	None Detected

Lab No.: 4073528 **Description / Location:** Tan Ceiling Tile; 12x12
Client No.: ANHA52-169 NW Office

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	100	Cellulose	None Detected

NIST-NVLAP No. 101165-0 **NY-DOH No. 11021** **AIHA Lab No. 100188**

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BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 4073529 **Description / Location:** Grey Floor Tile; 12x12
Client No.: ANHA53-170 NE Office SE

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
10	Chrysotile	None Detected	None Detected	90

Lab No.: 4073529 **Description / Location:** Black Mastic **Layer No.:** 2
Client No.: ANHA53-170 NE Office SE

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
PC 2.5	Chrysotile	None Detected	None Detected	PC 97.5

Lab No.: 4073529 **Description / Location:** Tan/Black Mastic/Leveling Compound **Layer No.:** 3
Client No.: ANHA53-170 NE Office SE

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	None Detected	None Detected	100

Lab No.: 4073530 **Description / Location:** Tan/Black Mastic/Leveling Compound
Client No.: ANHA53-171 S Central NW Office

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	None Detected	None Detected	100

NIST-NVLAP No. 101165-0 **NY-DOH No. 11021** **AIHA Lab No. 100188**

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Project No.: 1515-017-03

BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 4073531 **Description / Location:** Tan/Black Mastic/Leveling Compound
Client No.: ANHA53-172 NW Office SW

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	None Detected	None Detected	100

Lab No.: 4073532 **Description / Location:** Tan Ceiling Tile; 12x12
Client No.: ANHA54-173 SE Office Closet

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	100	Cellulose	None Detected

Lab No.: 4073533 **Description / Location:** Tan Ceiling Tile; 12x12
Client No.: ANHA54-174 SE Office Closet

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	100	Cellulose	None Detected

Lab No.: 4073534 **Description / Location:** Tan Ceiling Tile; 12x12
Client No.: ANHA54-175 SE Office Closet

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	100	Cellulose	None Detected

NIST-NVLAP No. 101165-0 **NY-DOH No. 11021** **AIHA Lab No. 100188**

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Analysis Method: EPA 600/R-93/116

Comments: (PC) Indicates Stratified Point Count Method performed. Method not performed unless stated. Quantification at <0.25% by volume is possible with this method. (PC-Trace) represents this limit of quantitation. (PC-Trace) means that asbestos was detected but is not quantifiable under the Point Counting regimen. Analysis includes all distinct separable layers in accordance with EPA 600 Method. If not reported or otherwise noted, layer is either not present or the client has specifically requested that it not be analyzed. Small asbestos fibers may be missed by PLM due to resolution limitations of the optical microscope. Therefore, negative PLM results cannot be guaranteed. Electron Microscopy can be used as a confirming technique. Regulatory Limit is based upon the sample matrix.

Analysis Performed By: B. Faulseit

Date: 9/4/2010

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CERTIFICATE OF ANALYSIS

Client: Environ. Design International
33 W Monroe, Suite 1825
Chicago IL 60603

Report Date: 9/15/2010
Project: Eagle Zinc, Building N
Project No.: 1515-017-03

BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 4073535 **Description / Location:** Grey Transite
Client No.: ANHA55-176 Ceiling Panel Center Mech. Room

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
20	Chrysotile	None Detected	None Detected	80

Lab No.: 4073536 **Description / Location:** Sample Not Analyzed
Client No.: ANHA55-177

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
Sample Not Analyzed		Sample Not Analyzed		

Lab No.: 4073537 **Description / Location:** Sample Not Analyzed
Client No.: ANHA55-178

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
Sample Not Analyzed		Sample Not Analyzed		

Lab No.: 4073538 **Description / Location:** Grey Glazing
Client No.: ANHA56-179 N. Exterior Window

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
PC 1.2	Chrysotile	None Detected	None Detected	PC 98.8

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Analysis Performed By: B. Faulseit

Date: 9/4/2010

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Project No.: 1515-017-03

BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 4073539 **Description / Location:** Sample Not Analyzed
Client No.: ANHA56-180

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
Sample Not Analyzed		Sample Not Analyzed		

Lab No.: 4073540 **Description / Location:** Sample Not Analyzed
Client No.: ANHA56-181

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
Sample Not Analyzed		Sample Not Analyzed		

Lab No.: 4073541 **Description / Location:** Black Roof Material
Client No.: ANHA57-182 N. Roofing

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	40	Fibrous Glass	60

Lab No.: 4073542 **Description / Location:** Black Roof Material
Client No.: ANHA57-183 E. Roofing

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	40	Fibrous Glass	60

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Analysis Method: EPA 600/R-93/116

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Analysis Performed By: B. Faulseit

Date: 9/4/2010

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Report Date: 9/15/2010
Project: Eagle Zinc, Building N
Project No.: 1515-017-03

BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 4073543
Client No.: ANHA57-184

Description / Location: Black Roof Material
W. Roofing

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	40	Fibrous Glass	60

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Analysis Performed By: B. Faulseit

Date: 9/4/2010

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33 W Monroe, Suite 1825
Chicago IL 60603

Report Date: 9/16/2010
Project: Eagle Zinc Building O
Project No.: 1515-017-03

BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 4073544 **Description / Location:** White Glazing
Client No.: AOHA58-185 S. Window

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	None Detected	None Detected	100

Lab No.: 4073545 **Description / Location:** White Glazing
Client No.: AOHA58-186 W. Window

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	None Detected	None Detected	100

Lab No.: 4073546 **Description / Location:** White Glazing
Client No.: AOHA58-187 N. Window

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	None Detected	None Detected	100

Lab No.: 4073547 **Description / Location:** Black Caulk
Client No.: AOHA59-188 E. Roof

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
15	Chrysotile	None Detected	None Detected	85

NIST-NVLAP No. 101165-0 **NY-DOH No. 11021** **AIHA Lab No. 100188**

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Analysis Method: EPA 600/R-93/116

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Analysis Performed By: M. Gallagher

Approved By: Frank Ehrenfeld

Date: 9/3/2010

Frank E. Ehrenfeld, III
Laboratory Director

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33 W Monroe, Suite 1825
Chicago IL 60603

Report Date: 9/16/2010
Project: Eagle Zinc Building O
Project No.: 1515-017-03

BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 4073548 **Description / Location:** Sample Not Analyzed
Client No.: AOHA59-189

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
Sample Not Analyzed		Sample Not Analyzed		

Lab No.: 4073549 **Description / Location:** Sample Not Analyzed
Client No.: AOHA59-190

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
Sample Not Analyzed		Sample Not Analyzed		

Lab No.: 4073550 **Description / Location:** Black Roof Material
Client No.: AOHA60-191 E. Roof Flashing

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	40	Cellulose	60

Lab No.: 4073551 **Description / Location:** Black Roof Material
Client No.: AOHA60-192 N. Roof Flashing

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	40	Cellulose	60

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Analysis Performed By: M. Gallagher

Date: 9/3/2010

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33 W Monroe, Suite 1825
Chicago IL 60603

Report Date: 9/16/2010
Project: Eagle Zinc Building O
Project No.: 1515-017-03

BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 4073552 **Description / Location:** Black Roof Material
Client No.: AOHA60-193 S. Roof Flashing

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	40	Cellulose	60

Lab No.: 4073553 **Description / Location:** Black Roof Material
Client No.: AOHA60-194 S. Roof Flashing

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	30	Cellulose	70

Lab No.: 4073554 **Description / Location:** Black/Grey Roof Material
Client No.: AOHA61-195 E.

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	25	Fibrous Glass	75

Lab No.: 4073555 **Description / Location:** Black/Grey Roof Material
Client No.: AOHA61-196 N.

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	25	Fibrous Glass	75

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Analysis Performed By: M. Gallagher

Date: 9/3/2010

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Chicago IL 60603

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Project: Eagle Zinc Building O
Project No.: 1515-017-03

BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 4073556 **Description / Location:** Black/Grey Roof Material
Client No.: AOHA61-197 S.

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	25	Fibrous Glass	75

Lab No.: 4073557 **Description / Location:** Black Roof Material
Client No.: AOHA62-198 E.

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
PC Trace	Chrysotile	25	Cellulose	75

Lab No.: 4073558 **Description / Location:** Black Roof Material
Client No.: AOHA62-199 N.

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
PC 0.25	Chrysotile	25	Cellulose	PC 74.75

Lab No.: 4073559 **Description / Location:** Black Roof Material
Client No.: AOHA62-200 S.

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
PC 0.25	Chrysotile	25	Cellulose	PC 74.75

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Analysis Performed By: M. Gallagher

Date: 9/3/2010

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33 W Monroe, Suite 1825
Chicago IL 60603

Report Date: 9/16/2010
Project: Eagle Zinc Building O
Project No.: 1515-017-03

BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 4073560 **Description / Location:** Black/White Caulk
Client No.: AOHA63-201 E. Exterior Window

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
PC 1.4	Chrysotile	None Detected	None Detected	PC 98.6

Lab No.: 4073561 **Description / Location:** Sample Not Analyzed
Client No.: AOHA63-202

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
Sample Not Analyzed		Sample Not Analyzed		

Lab No.: 4073562 **Description / Location:** Sample Not Analyzed
Client No.: AOHA63-203

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
Sample Not Analyzed		Sample Not Analyzed		

Lab No.: 4073563 **Description / Location:** White/Tan Caulk
Client No.: AOHA64-204 E. Exterior Door

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	None Detected	None Detected	100

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Analysis Performed By: M. Gallagher

Date: 9/3/2010

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Chicago IL 60603

Report Date: 9/16/2010
Project: Eagle Zinc Building O
Project No.: 1515-017-03

BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 4073564
Client No.: AOHA64-205
Description / Location: White Caulk
E. Exterior Door

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	None Detected	None Detected	100

Lab No.: 4073565
Client No.: AOHA64-206
Description / Location: White/Tan Caulk
E. Exterior Door

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	None Detected	None Detected	100

NIST-NVLAP No. 101165-0 **NY-DOH No. 11021** **AIHA Lab No. 100188**

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Analysis Performed By: M. Gallagher

Date: 9/3/2010

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CERTIFICATE OF ANALYSIS

Client: Environ. Design International
33 W Monroe, Suite 1825
Chicago IL 60603

Report Date: 9/16/2010
Project: Eagle Zinc Bldg. P1 & P2
Project No.: 1515-017-03

BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 4073086 **Description / Location:** Lt. Tan Caulk
Client No.: AP1HA81-257 Exterior Window, W

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
PC 1.5	Chrysotile	None Detected	None Detected	PC 98.5

Lab No.: 4073087 **Description / Location:** Sample Not Analyzed
Client No.: AP1HA81-258

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
Sample Not Analyzed		Sample Not Analyzed		

Lab No.: 4073088 **Description / Location:** Sample Not Analyzed
Client No.: AP1HA81-259

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
Sample Not Analyzed		Sample Not Analyzed		

Lab No.: 4073089 **Description / Location:** Off-White Caulk
Client No.: AP1HA82-260 Exterior Door, W

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
PC 3.1	Chrysotile	None Detected	None Detected	PC 96.9

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Analysis Performed By: E. Smith **Approved By:**

Date: 9/2/2010

Frank E. Ehrenfeld, III
Laboratory Director

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CERTIFICATE OF ANALYSIS

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33 W Monroe, Suite 1825
Chicago IL 60603

Report Date: 9/16/2010
Project: Eagle Zinc Bldg. P1 & P2
Project No.: 1515-017-03

BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 4073090 **Description / Location:** Sample Not Analyzed
Client No.: AP1HA82-261

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
Sample Not Analyzed		Sample Not Analyzed		

Lab No.: 4073091 **Description / Location:** Sample Not Analyzed
Client No.: AP1HA82-262

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
Sample Not Analyzed		Sample Not Analyzed		

Lab No.: 4073092 **Description / Location:** Lt. Tan Glazing
Client No.: AP1HA83-263 Interior Window, W

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	None Detected	None Detected	100

Lab No.: 4073093 **Description / Location:** Lt. Tan Glazing
Client No.: AP1HA83-264 Interior Window, N

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	None Detected	None Detected	100

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Analysis Method: EPA 600/R-93/116

Comments: (PC) Indicates Stratified Point Count Method performed. Method not performed unless stated. Quantification at <0.25% by volume is possible with this method (PC-Trace) represents this limit of quantitation. (PC-Trace) means that asbestos was detected but is not quantifiable under the Point Counting regimen. Analysis includes all distinct separable layers in accordance with EPA 600 Method If not reported or otherwise noted, layer is either not present or the client has specifically requested that it not be analyzed. Small asbestos fibers may be missed by PLM due to resolution limitations of the optical microscope. Therefore, negative PLM results cannot be guaranteed Electron Microscopy can be used as a confirming technique. Regulatory Limit is based upon the sample matrix

Analysis Performed By: E. Smith

Date: 9/2/2010

ATL INTERNATIONAL
Asbestos Testing Laboratories

9000 Commerce Parkway, Suite B
Mount Laurel, NJ 08054
Toll Free 877-428-4285
Local: 856-231-9449
Fax: 856-231-9818

CERTIFICATE OF ANALYSIS

Client: Environ. Design International
33 W Monroe, Suite 1825
Chicago IL 60603

Report Date: 9/16/2010
Project: Eagle Zinc Bldg. P1 & P2
Project No.: 1515-017-03

BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 4073094 **Description / Location:** Lt. Tan Glazing
Client No.: AP1HA83-265 Interior Window, S

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	None Detected	None Detected	100

Lab No.: 4073095 **Description / Location:** Black/White Shingle
Client No.: AP1HA84-266 Roof Field, S

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	15	Cellulose	85

Lab No.: 4073095 **Description / Location:** Black/Green Shingle **Layer No.:** 2
Client No.: AP1HA84-266 Roof Field, S

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	15	Cellulose	85

Lab No.: 4073095 **Description / Location:** Black Felt **Layer No.:** 3
Client No.: AP1HA84-266 Roof Field, S

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	90	Cellulose	10

NIST-NVLAP No. 101165-0 **NY-DOH No. 11021** **AIHA Lab No. 100188**

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Analysis Method: EPA 600/R-93/116

Comments: (PC) Indicates Stratified Point Count Method performed. Method not performed unless stated. Quantification at <0.25% by volume is possible with this method (PC–Trace) represents this limit of quantitation (PC-Trace) means that asbestos was detected but is not quantifiable under the Point Counting regimen. Analysis includes all distinct separable layers in accordance with EPA 600 Method If not reported or otherwise noted, layer is either not present or the client has specifically requested that it not be analyzed Small asbestos fibers may be missed by PLM due to resolution limitations of the optical microscope. Therefore, negative PLM results cannot be guaranteed. Electron Microscopy can be used as a confirming technique. Regulatory Limit is based upon the sample matrix.

Analysis Performed By: E. Smith

Date: 9/2/2010

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CERTIFICATE OF ANALYSIS

Client: Environ. Design International
33 W Monroe, Suite 1825
Chicago IL 60603

Report Date: 9/16/2010
Project: Eagle Zinc Bldg. P1 & P2
Project No.: 1515-017-03

BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 4073096 **Description / Location:** Black/Green Shingle
Client No.: AP1HA84-267 Roof Field, SE

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	15	Cellulose	85

Lab No.: 4073096 **Description / Location:** Black/White Shingle **Layer No.:** 2
Client No.: AP1HA84-267 Roof Field, SE

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	15	Cellulose	85

Lab No.: 4073097 **Description / Location:** Black/Green Shingle
Client No.: AP1HA84-268 Roof Field, SW

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	15	Cellulose	85

Lab No.: 4073097 **Description / Location:** Black/White Shingle **Layer No.:** 2
Client No.: AP1HA84-268 Roof Field, SW

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	15	Cellulose	85

NIST-NVLAP No. 101165-0 **NY-DOH No. 11021** **AIHA Lab No. 100188**

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Analysis Method: EPA 600/R-93/116

Comments: (PC) Indicates Stratified Point Count Method performed. Method not performed unless stated. Quantification at <0.25% by volume is possible with this method. (PC–Trace) represents this limit of quantitation. (PC-Trace) means that asbestos was detected but is not quantifiable under the Point Counting regimen. Analysis includes all distinct separable layers in accordance with EPA 600 Method. If not reported or otherwise noted, layer is either not present or the client has specifically requested that it not be analyzed. Small asbestos fibers may be missed by PLM due to resolution limitations of the optical microscope. Therefore, negative PLM results cannot be guaranteed. Electron Microscopy can be used as a confirming technique. Regulatory Limit is based upon the sample matrix.

Analysis Performed By: E. Smith

Date: 9/2/2010

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Fax: 856-231-9818

CERTIFICATE OF ANALYSIS

Client: Environ. Design International
33 W Monroe, Suite 1825
Chicago IL 60603

Report Date: 9/16/2010
Project: Eagle Zinc Bldg. P1 & P2
Project No.: 1515-017-03

BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 4073098 **Description / Location:** Black Roof Material
Client No.: AP2HA85-269 Roof Field, N. Central

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
PC 5.3	Chrysotile	None Detected	None Detected	PC 94.7

Lab No.: 4073098 **Description / Location:** Black/Green Shingle **Layer No.:** 2
Client No.: AP2HA85-269 Roof Field, N. Central

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	20	Cellulose	80

Lab No.: 4073098 **Description / Location:** Black/Grey Shingle **Layer No.:** 3
Client No.: AP2HA85-269 Roof Field, N. Central

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	20	Cellulose	80

NIST-NVLAP No. 101165-0 **NY-DOH No. 11021** **AIHA Lab No. 100188**

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Analysis Method: EPA 600/R-93/116

Comments: (PC) Indicates Stratified Point Count Method performed. Method not performed unless stated. Quantification at <0.25% by volume is possible with this method. (PC–Trace) represents this limit of quantitation. (PC-Trace) means that asbestos was detected but is not quantifiable under the Point Counting regimen. Analysis includes all distinct separable layers in accordance with EPA 600 Method If not reported or otherwise noted, layer is either not present or the client has specifically requested that it not be analyzed. Small asbestos fibers may be missed by PLM due to resolution limitations of the optical microscope. Therefore, negative PLM results cannot be guaranteed Electron Microscopy can be used as a confirming technique. Regulatory Limit is based upon the sample matrix.

Analysis Performed By: E. Smith

Date: 9/2/2010

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CERTIFICATE OF ANALYSIS

Client: Environ. Design International
33 W Monroe, Suite 1825
Chicago IL 60603

Report Date: 9/16/2010
Project: Eagle Zinc Bldg. P1 & P2
Project No.: 1515-017-03

BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 4073099 **Description / Location:** Black/Green Shingle
Client No.: AP2HA85-270 Roof Field, NE

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	20	Cellulose	80

Lab No.: 4073099 **Description / Location:** Black/Grey Shingle **Layer No.:** 2
Client No.: AP2HA85-270 Roof Field, NE

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	20	Cellulose	80

Lab No.: 4073100 **Description / Location:** Black/Green Shingle
Client No.: AP2HA85-271 Roof Field, NW

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	20	Cellulose	80

NIST-NVLAP No. 101165-0 **NY-DOH No. 11021** **AIHA Lab No. 100188**

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Analysis Method: EPA 600/R-93/116

Comments: (PC) Indicates Stratified Point Count Method performed. Method not performed unless stated Quantification at <0.25% by volume is possible with this method. (PC-Trace) represents this limit of quantitation. (PC-Trace) means that asbestos was detected but is not quantifiable under the Point Counting regimen. Analysis includes all distinct separable layers in accordance with EPA 600 Method. If not reported or otherwise noted, layer is either not present or the client has specifically requested that it not be analyzed. Small asbestos fibers may be missed by PLM due to resolution limitations of the optical microscope. Therefore, negative PLM results cannot be guaranteed. Electron Microscopy can be used as a confirming technique. Regulatory Limit is based upon the sample matrix

Analysis Performed By: E. Smith

Date: 9/2/2010

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Chicago, Illinois 60604
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fax 312.~~356.5499~~ 345-0529

Offices also in:
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Gary, Indiana
Milwaukee, Wisconsin

Custody and Sample Information - Complete ALL information. Put N/A in blanks not applicable. Press firmly.

1. Sender's Name/Project No.	2. Sampling Site Address/Contact Telephone No.	Indicate Analysis Requested
[illegible] / 1515.017.03	Eagle Zinc Building B	

3. Sampled by (Signature)	4. # of Samples in Shipment	5. Date of Sample Shipment	6. Date Results Needed
[illegible]	18	8/25/10	5 day turn

Item No	Sample Number	Sample Location/Description	COMP	GRAB	Matrix: WATER	SOIL	AIR	SLUDGE	OTHER	Method Preserved: HCl	HNO_3	H_2SO_4	ICE	NONE	OTHER	Sampling: Date	Time	VOLUME (L)	TIME (Minutes)	# of Containers	PLM				Laboratory Number
1	[illegible]	[illegible] N wall main building		X												8/23/10	1330			1					
2	[illegible]	E wall																							
3	[illegible]	S wall																							
4	[illegible]	[illegible] S wall																							
5	[illegible]	N wall																							
6	[illegible]	E wall																							
7	[illegible]	[illegible] S wall																							
8	[illegible]	lower S wall [illegible] building																							
9	[illegible]	lower N wall [illegible] building																							
10	[illegible]	[illegible] E wall main building																							

Time In:	Time Out:	Total Hours:	Signature:	Print Name:

Released by (Signature)	Date/Time Released	Delivery Method	Released by (Signature)	Date/Time Released	Company/Agency Affiliation	Condition Noted
[illegible]	8/24/10 1700	Fed Ex				
			To Archive/Disposal			

Comments: [illegible]

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fax: 312 356 5499

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Milwaukee, Wisconsin

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1. Sender's Name/Project No.	2. Sampling Site Address/Contact Telephone No.	Indicate Analysis Requested
[illegible] / 1515 017.03	Eagle Zinc Building B	

3. Sampled by (Signature)	4. # of Samples in Shipment	5. Date of Sample Shipment	6. Date Results Needed
[illegible]	18		5 day turn

Item No	Sample Number	Sample Location/Description	COMP	GRAB	Matrix: WATER	SOIL	AIR	SLUDGE	OTHER	Method Preserved: HCl	HNO_3	H_2SO_4	ICE	NONE	OTHER	Sampling: Date	Time	VOLUME (L)	TIME (Minutes)	# of Containers	PLM				Laboratory Number
1	[illegible]	[illegible] block S wall [illegible] main building		X												8/24/10	1330			1	x				
2	[illegible]	↓ S wall main building west end																							
3	[illegible]	[illegible] asphalt N wall W. paper [illegible] main bld.																							
4	-14	E wall S. end main building																							
5	-15	↓ [illegible] wall main building																							
6	[illegible]	[illegible] E wall exterior [illegible] bld.																							
7	-17	N. wall E. end [illegible] building																							
8	-18	↓ N. wall W end [illegible] building																							
9																									
10																									

Time In:	Time Out:	Total Hours:	Signature:	Print Name:

Released by (Signature)	Date/Time Released	Delivery Method	Released by (Signature)	Date/Time Released	Company/Agency Affiliation	Condition Noted
[illegible]	8/24/10 1700	Fed Ex				
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Comments: [illegible]

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fax: 312.356.5499

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Milwaukee, Wisconsin

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1. Sender's Name/Project No.	2. Sampling Site Address/Contact Telephone No.	Indicate Analysis Requested
1515.017.03	Eagle Zinc Building C	

3. Sampled by (Signature)	4. # of Samples in Shipment	5. Date of Sample Shipment	6. Date Results Needed
Jose Aguilar	29	8/25/10	5 DAY TAT

Item No.	Sample Number	Sample Location/Description	COMP	GRAB	Matrix: WATER	SOIL	AIR	SLUDGE	OTHER	Method Preserved: HCl	HNO_3	H_2SO_4	ICE	NONE	OTHER	Sampling: Date	Time	VOLUME (L)	TIME (Minutes)	# of Containers	PLM				Laboratory Number
1	A-C-HA7-19	window glazing west wall [illegible] entrance		✓										✓		8/23/10	12:00			1					
2	A-C-HA7-20	window glazing south wall [illegible] entrance		✓										✓											
3	A-C-HA7-21	window glazing north wall		✓										✓											
4	A-C-HA8-22	window caulk - north wall		✓										✓											
5	A-C-HA8-23	window caulk - north wall		✓										✓											
6	A-C-HA8-24	window caulk - north wall		✓										✓											
7	A-C-HA9-25	vibration damper green dust collector		✓										✓											
8	A-C-HA9-26	vibration damper green dust collector		✓										✓											
9	A-C-HA9-27	vibration damper green dust collector		✓										✓											
10	A-C-HA10-28	brick furnace east		✓										✓											

Time In:	Time Out:	Total Hours:	Signature:	Print Name:

Released by (Signature)	Date/Time Released	Delivery Method	Released by (Signature)	Date/Time Released	Company/Agency Affiliation	Condition Noted
Jose Aguilar	8/23/10 17:00	FEED EX				
			To Archive/Disposal			

Comments: STOP @ 1st POSITIVE

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Custody and Sample Information - Complete ALL information. Put N/A in blanks not applicable. Press firmly.

1. Sender's Name/Project No.: K. Templin / 1515.017.03

2. Sampling Site Address/Contact Telephone No.: Eagle Zinc Building C

3. Sampled by (Signature): [illegible]

4. # of Samples in Shipment: 29 I.A. 29

5. Date of Sample Shipment: 8/25/10

6. Date Results Needed: 5 DAY TAT

Indicate Analysis Requested: PLM

Item No.	Sample Number	Sample Location/Description	COMP	GRAB	Matrix: WATER	SOIL	AIR	SLUDGE	OTHER	Method Preserved: HCl	HNO_3	H_2SO_4	ICE	NONE	OTHER	Sampling: Date	Time	VOLUME (L)	TIME (Minutes)	# of Containers	PLM					Laboratory Number
11	A-C-HA10-29	brick furnace west		✓										✓		8/23/10	1600			1	X					
12	A-C-HA10-30	brick furnace west		✓										✓												
13	A-C-HA10-31	brick furnace center		✓										✓												
14	A-C-HA11-32	mortar furnace east		✓										✓												
5	A-C-HA11-33	mortar furnace west		✓										✓												
6	A-C-HA11-34	mortar furnace west		✓										✓												
7	A-C-HA12-35	Plaster N. furnace south side		✓										✓												
8	A-C-HA12-36	Plaster N. furnace S. side		✓										✓												
9	A-C-HA12-37	Plaster N. furnace E. side		✓										✓												
10	A-C-HA13-38	mortar N. furnace S. side		✓										✓												

Time In:	Time Out:	Total Hours:	Signature:	Print Name:

Released by (Signature)	Date/Time Released	Delivery Method	Released by (Signature)	Date/Time Released	Company/Agency Affiliation	Condition Noted
[illegible]	8/23/10	FED EX				
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Comments: STAT Clr Positive

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Custody and Sample Information - Complete ALL information. Put N/A in blanks not applicable. Press firmly.

1. Sender's Name/Project No.	2. Sampling Site Address/Contact Telephone No.	Indicate Analysis Requested
K. Templin / 1515.017.03	Eagle Zinc Building C	

3. Sampled by (Signature)	4. # of Samples in Shipment	5. Date of Sample Shipment	6. Date Results Needed
Jon Aguilar	27	8/25/10	5 DAY TAT

Item No.	Sample Number	Sample Location/Description	COMP	GRAB	Matrix: WATER	SOIL	AIR	SLUDGE	OTHER	Method Preserved: HCl	HNO_3	H_2SO_4	ICE	NONE	OTHER	Sampling: Date	Time	VOLUME (L)	TIME (Minutes)	# of Containers	PLM				Laboratory Number
1	A-C-HA13-39	mortar N furnace W. side		✓										✓		8/23/10	16:00			1					
2	A-C-HA13-40	mortar N. furnace west side		✓										✓											
3	A-C-HA14-41	brick N furnace west side		✓										✓											
4	A-C-HA14-42	brick N. furnace S. side		✓										✓											
5	A-C-HA14-43	brick N. furnace N. side		✓										✓											
6	A-C-HA15-44	insulation green E furnace		✓										✓											
7	A-C-HA15-45	" " W furnace		✓										✓											
8	A-C-HA15-46	" " W furnace		✓										✓											
9	A-C-HA16-47	pipe sealant		✓										✓											
10																									

Time In:	Time Out:	Total Hours:	Signature:	Print Name:

Released by (Signature)	Date/Time Released	Delivery Method	Released by (Signature)	Date/Time Released	Company/Agency Affiliation	Condition Noted
Jon Aguilar	8/23/10 1700	Fax Ex				
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Milwaukee, Wisconsin

Custody and Sample Information - Complete ALL information. Put N/A in blanks not applicable. Press firmly.

1. Sender's Name/Project No.	2. Sampling Site Address/Contact Telephone No.	Indicate Analysis Requested
K. Templin/1515.017.03	Eagle Zinc Building D	

3. Sampled by (Signature)	4. # of Samples in Shipment	5. Date of Sample Shipment	6. Date Results Needed
Joe Aguilar	40	8/25/10	5 day turn

Item No.	Sample Number	Sample Location/Description	COMP	GRAB	Matrix: WATER	SOIL	AIR	SLUDGE	OTHER	Method Preserved: HCl	HNO_3	H_2SO_4	ICE	NONE	OTHER	Sampling: Date	Time	VOLUME (L)	TIME (Minutes)	# of Containers	PLM				Laboratory Number
1	A-D2-HA17-48	roof sealant D2		✓										✓		8/24/10	10:00				X				
2	A-D2-HA17-49	↓ ↓ D3		↓										↓		↓	↓				↓				
3	A-D2-HA17-50	↓ ↓ D4															↓								
4	A-D2-HA18-51	brown mortar roof D2															10:10								
5	A-D2-HA18-52	↓ ↓ ↓ D3															↓								
6	A-D2-HA18-53	↓ ↓ ↓ D4															↓								
7	A-D2-HA19-54	grey mortar D2															10:15								
8	A-D2-HA19-55	↓ ↓ D3															↓								
9	A-D2-HA19-56	↓ ↓ D3															↓				↓				
10	A-D2-HA20-57	mortar D2		↓										↓		↓	10:20								

Time In:	Time Out:	Total Hours:	Signature:	Print Name:

Released by (Signature)	Date/Time Released	Delivery Method	Released by (Signature)	Date/Time Released	Company/Agency Affiliation	Condition Noted
Joe Aguilar	8/24/10 1200	FedEx				
			To Archive/Disposal			

Comments: [illegible]

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Gary, Indiana
Milwaukee, Wisconsin

Custody and Sample Information - Complete ALL information. Put N/A in blanks not applicable. Press firmly.

1. Sender's Name/Project No.	2. Sampling Site Address/Contact Telephone No.	Indicate Analysis Requested
K. Templin / 1515.017.03	Eagle Zinc Building D	

3. Sampled by (Signature)	4. # of Samples in Shipment	5. Date of Sample Shipment	6. Date Results Needed
Jon Aguilar	40	8/25/10	5 day turn

Item No.	Sample Number	Sample Location/Description	COMP	GRAB	Matrix: WATER	SOIL	AIR	SLUDGE	OTHER	Method Preserved: HCl	HNO_3	H_2SO_4	ICE	NONE	OTHER	Sampling: Date	Time	VOLUME (L)	TIME (Minutes)	# of Containers	FLM				Laboratory Number
1	A-D2-HA20-58	mortar - D D2		✓										✓		8/24	10:20			1	X				
2	A-D2-HA20-59	mortar D3		✓										✓		↓	↓			↓	↓				
3	A-D2-HA20-60	mortar D4		✓										✓		↓	↓			↓	↓				
4	A-D2-HA21-61	brick D2		✓										✓		8/24	10:20			↓	↓				
5	A-D2-HA21-62	↓ D3		✓										✓		↓	↓			↓	↓				
6	A-D2-HA21-63	↓ D4		✓										✓		↓	↓			↓	↓				
7	A-D1-HA22-64	roof tar D1 bottom		✓										✓		8/24	11:30			↓	↓				
8	A-D1-HA22-65	↓ ↓ ↓ ↓		✓										✓		↓	↓			↓	↓				
9	A-D1-HA22-66	↓ ↓ ↓ ↓		✓										✓		↓	↓			↓	↓				
10	A-D1-HA22-67	roof tar D1 top		✓										✓		↓	11:00			↓	↓				

Time In:	Time Out:	Total Hours:	Signature:	Print Name:

Released by (Signature)	Date/Time Released	Delivery Method	Released by (Signature)	Date/Time Released	Company/Agency Affiliation	Condition Noted
Jon Aguilar	8/24/10 1700	FedEx				
			To Archive/Disposal			

Comments: [illegible]

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EDI
Environmental Design International inc.

200 S. Michigan Ave., Suite 700
Chicago, Illinois 60604
phone: 312.356.5400
fax: 312.356.5499

Offices also in:
Columbus, Ohio
Gary, Indiana
Milwaukee, Wisconsin

Custody and Sample Information - Complete ALL information. Put N/A in blanks not applicable. Press firmly.

1. Sender's Name/Project No.	2. Sampling Site Address/Contact Telephone No.	Indicate Analysis Requested
K. Templin/1515.017.03	Eagle Zinc Building D	

3. Sampled by (Signature)	4. # of Samples in Shipment	5. Date of Sample Shipment	6. Date Results Needed
Jose Aguilar	40	8/25/10	5 day turn

Item No.	Sample Number	Sample Location/Description	COMP	GRAB	Matrix: WATER	SOIL	AIR	SLUDGE	OTHER	Method Preserved: HCl	HNO_3	H_2SO_4	ICE	NONE	OTHER	Sampling: Date	Time	VOLUME (L)	TIME (Minutes)	# of Containers	PVC				Laboratory Number
1	A-D1-HA22 68	roof tar D1 top		✓										✓		8/24	11:00			1	X				
2	A-D1-HA22 69	↓ ↓ ↓ ↓		✓										✓		↓	↓								
3	A-D1-HA22 70	filtering sock		✓										✓		8/24	11:15								
4	A-D1-HA22 71	filtering sock		✓										✓		↓	↓								
5	A-D1-HA22 72	filtering sock		✓										✓		↓	↓								
6	A-D1-HA22 73	plaster D1		✓										✓		8/24	11:25								
7	A-D1-HA22 74	↓ ↓		✓										✓		↓	↓								
8	A-D1-HA22 75	↓ ↓		✓										✓		↓	↓								
9	A-D1-HA22 76	smaw glazing D1		✓										✓		8/24	12:15								
10	A-D1-HA22 77	↓ ↓ ↓		✓										✓		↓	↓			↓	↓				

Time In:	Time Out:	Total Hours:	Signature:	Print Name:

Released by (Signature)	Date/Time Released	Delivery Method	Released by (Signature)	Date/Time Released	Company/Agency Affiliation	Condition Noted
Jose Aguilar	8/24/10 17:00	Hand Fed Ex				
			To Archive/Disposal			

Comments:

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fax: 312.356.5499

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Gary, Indiana
Milwaukee, Wisconsin

Custody and Sample Information - Complete ALL information. Put N/A in blanks not applicable. Press firmly.

1. Sender's Name/Project No.		2. Sampling Site Address/Contact Telephone No.		Indicate Analysis Requested
3. Sampled by (Signature)	4. # of Samples in Shipment	**5. Date of Sample Shipment**	**6. Date Results Needed**	

Item No.	Sample Number	Sample Location/Description	COMP	GRAB	Matrix					Method Preserved						Sampling		VOLUME (L)	TIME (Minutes)	# of Containers					Laboratory Number
					WATER	SOIL	AIR	SLUDGE	OTHER	HCl	HNO_3	H_2SO_4	ICE	NONE	OTHER	Date	Time								
1																									
2																									
3																									
4																									
5																									
6																									
7																									
8																									
9																									
10																									

Time In:	Time Out:	Total Hours:	Signature:	Print Name:

Released by (Signature)	Date/Time Released	Delivery Method	Released by (Signature)	Date/Time Released	Company/Agency Affiliation	Condition Noted
			To Archive/Disposal			

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33 W. Monroe Ste 1825
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Chicago, Illinois 60603
phone: 312.~~356.5400~~ 345 1400
fax: 312.~~356.5499~~ 345 0524

Offices also in:
Columbus, Ohio
Gary, Indiana
Milwaukee, Wisconsin

Custody and Sample Information - Complete ALL information. Put N/A in blanks not applicable. Press firmly.

1. Sender's Name/Project No.	2. Sampling Site Address/Contact Telephone No.	Indicate Analysis Requested
1515.017.03	Eagle Zinc	

3. Sampled by (Signature)	4. # of Samples in Shipment	5. Date of Sample Shipment	6. Date Results Needed
Jose Aguilar	3		5 DAY TAT

Item No.	Sample Number	Sample Location/Description	COMP	GRAB	Matrix: WATER	SOIL	AIR	SLUDGE	OTHER	Method Preserved: HCl	HNO_3	H_2SO_4	ICE	NONE	OTHER	Sampling: Date	Time	VOLUME (L)	TIME (Minutes)	# of Containers	PCM				Laboratory Number
1	AD1HAG5208	Furnace Door North / Gasket		✓												8/25/10	10:00			1	✓				
2	AD1HAG5208	Furnace Door Center / Gasket		✓												8/25/10				1	✓				
3	AD1HAG5208	Furnace Door South / Gasket		✓												8/25/10				1	✓				
4	J.A.																								
5																									
6																									
7																									
8																									
9																									
10																									

Time In:	Time Out:	Total Hours:	Signature:	Print Name:

Released by (Signature)	Date/Time Released	Delivery Method	Released by (Signature)	Date/Time Released	Company/Agency Affiliation	Condition Noted
Jose Aguilar	8/25/10 1700	Fed Ex				
			To Archive/Disposal			

Comments: 5:00 @ 1 Positive

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Chicago, Illinois 60604
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fax: 312.~~356.5499~~ 345-0529

Offices also in:
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Gary, Indiana
Milwaukee, Wisconsin

Custody and Sample Information - Complete ALL information. Put N/A in blanks not applicable. Press firmly.

1. Sender's Name/Project No.	2. Sampling Site Address/Contact Telephone No.	Indicate Analysis Requested
K. Templin / 1515.017.03	Eagle Zinc building H	

3. Sampled by (Signature)	4. # of Samples in Shipment	5. Date of Sample Shipment	6. Date Results Needed
		8/25/10	5 day

Item No.	Sample Number	Sample Location/Description	COMP	GRAB	Matrix: WATER	SOIL	AIR	SLUDGE	OTHER	Method Preserved: HCl	HNO_3	H_2SO_4	ICE	NONE	OTHER	Sampling: Date	Time	VOLUME (L)	TIME (Minutes)	# of Containers	PLAT				Laboratory Number
1	A-H-HA30 92	ceiling tile H		✓										✓		8/24	11:15			1	X				
2	A-H-HA30 93	↓ ↓ ↓		✓										✓		↓				↓	↓				
3	A-H-HA30 94	↓ ↓ ↓		✓										✓		↓	↓			↓	↓				
4	A-H-HA31 95	mortar H		✓										✓		↓	11:15			↓	↓				
5	A-H-HA31 96	↓ ↓		✓										✓		↓				↓	↓				
6	A-H-HA31 97	↓ ↓		✓										✓		↓	↓			↓	↓				
7																									
8																									
9																									
10																									

Time In:	Time Out:	Total Hours:	Signature:	Print Name:

Released by (Signature)	Date/Time Released	Delivery Method	Released by (Signature)	Date/Time Released	Company/Agency Affiliation	Condition Noted
[signature]	8/24/10 1700	FED Ex				
			To Archive/Disposal			

Comments:

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fax: 312.356.5499 345-0525

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Gary, Indiana
Milwaukee, Wisconsin

Custody and Sample Information - Complete ALL information. Put N/A in blanks not applicable. Press firmly.

1. Sender's Name/Project No.	2. Sampling Site Address/Contact Telephone No.	Indicate Analysis Requested
1515 017.03	EAGLE ZINC Building H2	

3. Sampled by (Signature)	4. # of Samples in Shipment	5. Date of Sample Shipment	6. Date Results Needed
[illegible]	16	8/26/10	5 DAY TAT

Item No.	Sample Number	Sample Location/Description	COMP	GRAB	Matrix: WATER	SOIL	AIR	SLUDGE	OTHER	Method Preserved: HCl	HNO_3	H_2SO_4	ICE	NONE	OTHER	Sampling: Date	Time	VOLUME (L)	TIME (Minutes)	# of Containers	PLM				Laboratory Number
1	[illegible]	H2 [illegible] insulation [illegible]		✓												8/21/10	0930								
2	[illegible]	[illegible] insulation																							
3	[illegible]	↓																							
4	[illegible]	H2 [illegible] insulation															0940								
5	[illegible]																								
6	[illegible]	↓																							
7	[illegible]	H2 pipe [illegible] cell															0945								
8	[illegible]																								
9	[illegible]	↓																							
10	[illegible]	[illegible] pipe insulation															0945								

Time In:	Time Out:	Total Hours:	Signature:	Print Name:

Released by (Signature)	Date/Time Released	Delivery Method	Released by (Signature)	Date/Time Released	Company/Agency Affiliation	Condition Noted
[illegible]	8/25/10 1700	Fed Ex				
			To Archive/Disposal			

Comments: [illegible] @ [illegible] Positive

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Chicago, Illinois 60603
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fax: 312.~~356.5499~~ 345-0529

Offices also in:
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Gary, Indiana
Milwaukee, Wisconsin

[redacted]AIN [redacted] CUS[redacted]DY / ANAL[redacted]S REQUEST FORM

Custody and Sample Information - Complete ALL information. Put N/A in blanks not applicable. Press firmly.

1. Sender's Name/Project No.	2. Sampling Site Address/Contact Telephone No.	Indicate Analysis Requested
1515 017.03	Eagle Zinc Building H2 + H3	

3. Sampled by (Signature)	4. # of Samples in Shipment	5. Date of Sample Shipment	6. Date Results Needed
Jon Aguilar	16	8/26/10	5 DAY TAT

Item No.	Sample Number	Sample Location/Description	COMP	GRAB	Matrix: WATER	SOIL	AIR	SLUDGE	OTHER	Method Preserved: HCl	HNO_3	H_2SO_4	ICE	NONE	OTHER	Sampling: Date	Time	VOLUME (L)	TIME (Minutes)	# of Containers	PCM				Laboratory Number
1	AH2H436-118	H2 pipe insulation		✓												8/25/10	0945			1					
2	↓ -119	↓															↓								
3	AH4339-[illegible]	H3 window glazing															0955								
4	-120																								
5	↓ -122																								
6	~~[illegible]~~	↓																							
7	-123																								
8																									
9																									
10																									

Time In:	Time Out:	Total Hours:	Signature:	Print Name:

Released by (Signature)	Date/Time Released	Delivery Method	Released by (Signature)	Date/Time Released	Company/Agency Affiliation	Condition Noted
Jon Aguilar	8/25/10 1700	FedEx				
			To Archive/Disposal			

Comments: Jon Aguilar

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Milwaukee, Wisconsin

Custody and Sample Information - Complete ALL information. Put N/A in blanks not applicable. Press firmly.

1. Sender's Name/Project No.	2. Sampling Site Address/Contact Telephone No.	Indicate Analysis Requested
K Templin 1155.017.03	Eagle Zinc Building J	

3. Sampled by (Signature)	4. # of Samples in Shipment	5. Date of Sample Shipment	6. Date Results Needed
Jon Aguilar	4	8/25/10	5 day

Item No.	Sample Number	Sample Location/Description	COMP	GRAB	Matrix: WATER	SOIL	AIR	SLUDGE	OTHER	Method Preserved: HCl	HNO3	H2SO4	ICE	NONE	OTHER	Sampling: Date	Time	VOLUME (L)	TIME (Minutes)	# of Containers	PLM				Laboratory Number
1	A-J-HA29 88	insulation J furnace		✓										✓		8/24	15:16			1	X				
2	A-J-HA29 89	insulation - DJ furnace		✓										✓		↓	↓			↓	↓				
3	A-J-HA29 90	insulation J furnace		✓										✓		↓	↓			↓	↓				
4	A-J-HA29 91	insulation J furnace		✓										✓		↓	↓			↓	↓				
5																									
6																									
7																									
8																									
9																									
10																									

Time In:	Time Out:	Total Hours:	Signature:	Print Name:

Released by (Signature)	Date/Time Released	Delivery Method	Released by (Signature)	Date/Time Released	Company/Agency Affiliation	Condition Noted
Jon Aguilar	8/24/10 1700	Fed Ex				
			To Archive/Disposal			

Comments:

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fax: 312.356.5499 345-0529

Offices also in:
Columbus, Ohio
Gary, Indiana
Milwaukee, Wisconsin

[redacted]AIN [redacted]CUS[redacted]DY [redacted]ANAL[redacted]S REQUES[redacted]FORM

Custody and Sample Information - Complete ALL information. Put N/A in blanks not applicable. Press firmly.

1. Sender's Name/Project No.	2. Sampling Site Address/Contact Telephone No.	Indicate Analysis Requested
1515 017.03	EAGLE ZINC	

3. Sampled by (Signature)	4. # of Samples in Shipment	5. Date of Sample Shipment	6. Date Results Needed
Jon Aguilar			5 DAY TAT

Item No.	Sample Number	Sample Location/Description	COMP	GRAB	Matrix: WATER	SOIL	AIR	SLUDGE	OTHER	Method Preserved: HCl	HNO_3	H_2SO_4	ICE	NONE	OTHER	Sampling: Date	Time	VOLUME (L)	TIME (Minutes)	# of Containers	MLP				Laboratory Number
1	AKHA3298	South / Roofing Material		✓												8/23/10	9:15			1	✓				
2	AKHA3299	South Center / Roofing Material		✓																1	✓				
3	AKHA32100	South East / Roofing Material		✓																1	✓				
4	AKHA32101	South East / Roofing Material Dup.		✓																1	✓				
5	AKHA33102	South / Brick		✓													9:20			1	✓				
6	AKHA33103	South Center / Brick		✓																1	✓				
7	AKHA33104	South East / Brick		✓																1	✓				
8	AKHA34105	South / Mortar		✓													9:22			1	✓				
9	AKHA34106	South Center / Mortar		✓																1	✓				
10	AKHA34107	South East / Mortar		✓																1	✓				

Time In:	Time Out:	Total Hours:	Signature:	Print Name:

Released by (Signature)	Date/Time Released	Delivery Method	Released by (Signature)	Date/Time Released	Company/Agency Affiliation	Condition Noted
Jon Aguilar	8/23/10 1700	FED EX				
			To Archive/Disposal			

Comments: Stop @ 1st Positive

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fax: 312.~~356.5499~~ 345-0529

Offices also in:
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Gary, Indiana
Milwaukee, Wisconsin

Custody and Sample Information - Complete ALL information. Put N/A in blanks not applicable. Press firmly.

1 Sender's Name/Project No.	2. Sampling Site Address/Contact Telephone No.	Indicate Analysis Requested
1515.017.03	EAGLE 2 NC Building L1	

3 Sampled by (Signature)	4. # of Samples in Shipment	5. Date of Sample Shipment	6. Date Results Needed
Jon Aguilar	39		5 DAY TAT

Item No	Sample Number	Sample Location/Description	COMP	GRAB	Matrix: WATER	SOIL	AIR	SLUDGE	OTHER	Method Preserved: HCl	HNO_3	H_2SO_4	ICE	NONE	OTHER	Sampling: Date	Time	VOLUME (L)	TIME (Minutes)	# of Containers	PLM				Laboratory Number
1	AL1RAW-124	window [illegible] exterior		✓												8/2/10	1025			1					
2	-125	exterior W																							
3	-126																								
4	AL1RAW-127	[illegible] west wall															1030								
5	-128																								
6	-129																								
7	AL1RAW-130	window grazing west area															1035								
8	-131																								
9	-132																								
10	AL1RAW-133	Brick [illegible] wall															1045								

Time In:	Time Out:	Total Hours:	Signature:	Print Name:

Released by (Signature)	Date/Time Released	Delivery Method	Released by (Signature)	Date/Time Released	Company/Agency Affiliation	Condition Noted
Jon Aguilar	8/2/10 1700	Fed Ex				
			To Archive/Disposal			

Comments: [illegible]

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Custody and Sample Information - Complete ALL information. Put N/A in blanks not applicable. Press firmly.

1. Sender's Name/Project No.	2. Sampling Site Address/Contact Telephone No.	Indicate Analysis Requested
[illegible] / 175 017 03	Eagle Zinc Building L1	

3. Sampled by (Signature)	4. # of Samples in Shipment	5. Date of Sample Shipment	6. Date Results Needed
	34	8/26/10	5 day TAT

Item No.	Sample Number	Sample Location/Description	COMP	GRAB	Matrix: WATER	SOIL	AIR	SLUDGE	OTHER	Method Preserved: HCl	HNO_3	H_2SO_4	ICE	NONE	OTHER	Sampling: Date	Time	VOLUME (L)	TIME (Minutes)	# of Containers	PLM				Laboratory Number
1	AL1HA43-134	~~[illegible]~~ Brick wall		X												8/25/10	1045			1					
2	-135																								
3	AL1HA44-136	door south															1046								
4	-137	north																							
5	-138	east																							
6	AL1HA45-139	[illegible] west															1055								
7	-140	east																							
8	-141	center																							
9	AL1HA46-142	[illegible] Room															1058								
10	-143	north Room																							

Time In:	Time Out:	Total Hours:	Signature:	Print Name:

Released by (Signature)	Date/Time Released	Delivery Method	Released by (Signature)	Date/Time Released	Company/Agency Affiliation	Condition Noted
[illegible]	8/26/10 1600	Fed Ex				
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Comments: [illegible]

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CHAIN OF CUSTODY / ANALYSIS REQUEST FORM

Custody and Sample Information - Complete ALL information. Put N/A in blanks not applicable. Press firmly.

1. Sender's Name/Project No.	2. Sampling Site Address/Contact Telephone No	Indicate Analysis Requested
L Tompkins / 1515.07.03	Eagle Zinc Building L1	
3. Sampled by (Signature) / **4. # of Samples in Shipment** 34	**5. Date of Sample Shipment** 8/26/10 / **6. Date Results Needed** 5 day TAT	

Item No.	Sample Number	Sample Location/Description	COMP	GRAB	Matrix: WATER	SOIL	AIR	SLUDGE	OTHER	Method Preserved: HCl	HNO_3	H_2SO_4	ICE	NONE	OTHER	Sampling: Date	Time	VOLUME (L)	TIME (Minutes)	# of Containers	PLM				Laboratory Number
1	AL14446-14A	Pleasher [illegible] mahogany		X												8/25/10	1058			1					
2	AL14447-14B	pleasher (2) N well brick blend															1100								
3	-14C																								
4	-14D																								
5	AL14448-15A	East side bottom															1105								
6	-15B	middle																							
7	-15C	top																							
8	AL14449-15D	top																							
9	AL14450-16A	N side bottom															1105								
10	-16B	middle																							

Time In:	Time Out:	Total Hours:	Signature:	Print Name:

Released by (Signature)	Date/Time Released	Delivery Method	Released by (Signature)	Date/Time Released	Company/Agency Affiliation	Condition Noted
[illegible]	8/26/10 1100	FedEx				
			To Archive/Disposal			

Comments:

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1. Sender's Name/Project No.	2. Sampling Site Address/Contact Telephone No.	Indicate Analysis Requested
K Tempin / 1515.017.03	Eagle Zinc Building L1	

3. Sampled by (Signature)	4. # of Samples in Shipment	5. Date of Sample Shipment	6. Date Results Needed
	34	8/26/10	5 day TAT

Item No.	Sample Number	Sample Location/Description	COMP	GRAB	Matrix: WATER	SOIL	AIR	SLUDGE	OTHER	Method Preserved: HCl	HNO_3	H_2SO_4	ICE	NONE	OTHER	Sampling: Date	Time	VOLUME (L)	TIME (Minutes)	# of Containers	PLM				Laboratory Number
1	AL1HA48 -154	Roof N side top		X												8/25/10				1					
2	-155																								
3	-156	middle																							
4	-157	top																							
5																									
6																									
7																									
8																									
9																									
10																									

Time In:	Time Out:	Total Hours:	Signature:	Print Name:

Released by (Signature)	Date/Time Released	Delivery Method	Released by (Signature)	Date/Time Released	Company/Agency Affiliation	Condition Noted
[signature]	8/26/10 1600	Fedex				
			To Archive/Disposal			

Comments: [illegible] 1st positive

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CHAIN OF CUSTODY / ANALYSIS REQUEST FORM

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Milwaukee, Wisconsin

Custody and Sample Information - Complete ALL information. Put N/A in blanks not applicable. Press firmly.

1. Sender's Name/Project No.	2. Sampling Site Address/Contact Telephone No.	Indicate Analysis Requested
1515.017.03	Eagle Zinc Building M	

3. Sampled by (Signature)	4. # of Samples in Shipment	5. Date of Sample Shipment	6. Date Results Needed
[illegible]	47	8/26/10	5 day TAT

Item No.	Sample Number	Sample Location/Description	COMP	GRAB	Matrix: WATER	SOIL	AIR	SLUDGE	OTHER	Method Preserved: HCl	HNO_3	H_2SO_4	ICE	NONE	OTHER	Sampling: Date	Time	VOLUME (L)	TIME (Minutes)	# of Containers	PLM				Laboratory Number
1	[illegible]	Roof flashing West		X												8/26/10	1100			1					
2	-211	NW																							
3	-212	South																							
4	[illegible]	Roof field multiple layers West																							
5	-214	NW																							
6	-215	South																							
7	[illegible]	Roof [illegible] West																							
8	-217	NW																							
9	-218	South																							
10	[illegible]	[illegible] system [illegible] office [illegible] West																							

Time In:	Time Out:	Total Hours:	Signature:	Print Name:

Released by (Signature)	Date/Time Released	Delivery Method	Released by (Signature)	Date/Time Released	Company/Agency Affiliation	Condition Noted
[illegible]	[illegible] 14:30	Fed Ex				
			To Archive/Disposal			

Comments: [illegible] Client/[illegible] Copy [illegible]

[redacted]IN [redacted]CUS[redacted]DY [redacted]ALY[redacted]S RE[redacted]ES[redacted]ORM[redacted]

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fax: 312.356.5499

Offices also in:
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Gary, Indiana
Milwaukee, Wisconsin

Custody and Sample Information - Complete ALL information. Put N/A in blanks not applicable. Press firmly.

1. Sender's Name/Project No.	2. Sampling Site Address/Contact Telephone No.	Indicate Analysis Requested
1515.017.03	Eagle Zinc Building M	

3. Sampled by (Signature)	4. # of Samples in Shipment	5. Date of Sample Shipment	6. Date Results Needed
[signature]	47	8/26/10	5 day TAT

Item No.	Sample Number	Sample Location/Description	COMP	GRAB	Matrix: WATER	SOIL	AIR	SLUDGE	OTHER	Method Preserved: HCl	HNO_3	H_2SO_4	ICE	NONE	OTHER	Sampling: Date	Time	VOLUME (L)	TIME (Minutes)	# of Containers	PCM				Laboratory Number
1	AMHA69-220	thermal system air cell garage office South		X												8/24/10	1100			1					
2	-221	garage office NW																							
3	AMHA70-222	transit Break room																							
4	-223	Lunch room																							
5	-224	Locker Room																							
6	AMHA70-225	wall of break Room																							
7	AMHA71-226	Plaster on support beam break room																							
8	-227	Lunch room																							
9	-228	Locker Room																							
10	AMHA72-229	Drywall Locker Room E wall																							

Time In:	Time Out:	Total Hours:	Signature:	Print Name:

Released by (Signature)	Date/Time Released	Delivery Method	Released by (Signature)	Date/Time Released	Company/Agency Affiliation	Condition Noted
[signature]	8/26/10 14:30	Fed Ex				
			To Archive/Disposal			

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Milwaukee, Wisconsin

Custody and Sample Information - Complete ALL information. Put N/A in blanks not applicable. Press firmly.

1. Sender's Name/Project No.	2. Sampling Site Address/Contact Telephone No.	Indicate Analysis Requested
1515.017.03	Eagle Zinc Building M	

3. Sampled by (Signature)	4. # of Samples in Shipment	5. Date of Sample Shipment	6. Date Results Needed
[signature]	47	8/26/10	5 day TAT

Item No.	Sample Number	Sample Location/Description	COMP	GRAB	Matrix: WATER	SOIL	AIR	SLUDGE	OTHER	Method Preserved: HCl	HNO_3	H_2SO_4	ICE	NONE	OTHER	Sampling: Date	Time	VOLUME (L)	TIME (Minutes)	# of Containers	PLM				Laboratory Number
1	AMHA72-230	Drywall Locker Room S. wall		X												8/26/10	1100			1					
2	-231	Locker Room E. wall																							
3	AMHA73-232	Drywall joint compound Locker room E. wall																							
4	-233																								
5	-234	Locker room S. wall																							
6	AMHA74-235	2'x4' ceiling tile Contract office & break RM N																							
7	-236	Selio E																							
8	-237	S																							
9	AMHA75-238	2'x4' ceiling tile perforated S																							
10	-239	Center																							

Time In:	Time Out:	Total Hours:	Signature:	Print Name:

Released by (Signature)	Date/Time Released	Delivery Method	Released by (Signature)	Date/Time Released	Company/Agency Affiliation	Condition Noted
[signature]	8/26/10 14:30	Fed Ex				
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1. Sender's Name/Project No.	2. Sampling Site Address/Contact Telephone No.	Indicate Analysis Requested
1515.017.03	Eagle Zinc Building M	

3. Sampled by (Signature)	4. # of Samples in Shipment	5. Date of Sample Shipment	6. Date Results Needed
Jon Aguilera	47	8/26/10	5 day TAT

Item No.	Sample Number	Sample Location/Description	COMP	GRAB	Matrix: WATER	SOIL	AIR	SLUDGE	OTHER	Method Preserved: HCl	HNO_3	H_2SO_4	ICE	NONE	OTHER	Sampling: Date	Time	VOLUME (L)	TIME (Minutes)	# of Containers	PLM				Laboratory Number
1	AMPA75-240	2x4' ceiling tile perforated center office at break rm E		X												8/26/10	1100			1					
2	AMPA76-241	12 x 12" ceiling tile perforated garage office																							
3	-242																								
4	-243																								
5	AMPA77-244	Door caulk exterior garage door N																							
6	-245	E																							
7	-246	S																							
8	AMPA78-247	window glazing exterior N																							
9	-248	W																							
10	-249	E																							

Time In:	Time Out:	Total Hours:	Signature:	Print Name:

Released by (Signature)	Date/Time Released	Delivery Method	Released by (Signature)	Date/Time Released	Company/Agency Affiliation	Condition Noted
Jon Aguilera	8/26/10 14:30	Fed Ex				
			To Archive/Disposal			

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1. Sender's Name/Project No.	2. Sampling Site Address/Contact Telephone No.	Indicate Analysis Requested
1515.017.03	Eagle Zinc Building M	

3. Sampled by (Signature)	4. # of Samples in Shipment	5. Date of Sample Shipment	6. Date Results Needed
Joe Hyde	47	8/26/10	5 day TAT

Item No.	Sample Number	Sample Location/Description	COMP	GRAB	Matrix: WATER	SOIL	AIR	SLUDGE	OTHER	Method Preserved: HCl	HNO_3	H_2SO_4	ICE	NONE	OTHER	Sampling: Date	Time	VOLUME (L)	TIME (Minutes)	# of Containers	PLM					Laboratory Number
1	20H479-250	exterior window caulk red S		X												8/26/10	1100			1						
2	-251	S																								
3	-252	S																								
4	20H480-253	window caulk exterior white E																								
5	-254	NE																								
6	-255	W																								
7	20H480-256	W																								
8																										
9																										
10																										

Time In:	Time Out:	Total Hours:	Signature:	Print Name:

Released by (Signature)	Date/Time Released	Delivery Method	Released by (Signature)	Date/Time Released	Company/Agency Affiliation	Condition Noted
Joe Hyde	8/26/10 14:30	Fed Ex				
			To Archive/Disposal			

Comments: [illegible]

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fax: 312.~~356.5499~~ 345 0529

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Gary, Indiana
Milwaukee, Wisconsin

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1. Sender's Name/Project No.	2. Sampling Site Address/Contact Telephone No.	Indicate Analysis Requested
1515.017.03	EAGLE ZINC Building N	

3. Sampled by (Signature)	4. # of Samples in Shipment	5. Date of Sample Shipment	6. Date Results Needed
Jon Aguilar	27	8/26/10	5 DAY T.A.T

Item No.	Sample Number	Sample Location/Description	COMP	GRAB	Matrix: WATER	SOIL	AIR	SLUDGE	OTHER	Method Preserved: HCl	HNO_3	H_2SO_4	ICE	NONE	OTHER	Sampling: Date	Time	VOLUME (L)	TIME (Minutes)	# of Containers	PLM				Laboratory Number
1	AN H449-158	12"x12" tan floor tile central office		✓												8/26/10	1500			1					
2	-159	SE office																							
3	-160	NE office																							
4	AN H450-161	Tan + tiny leaving compound + mastic SE office N																							
5	-162	SE office S																							
6	-163	central office center																							
7	AN H451-164	Buy gray 12"x12" floor tile + mastic SE office SE																							
8	-165	SE office E central																							
9	-166	SE office NE																							
10	AN H452-167	12"x12" ceiling tile SE office																							

Time In:	Time Out:	Total Hours:	Signature:	Print Name:

Released by (Signature)	Date/Time Released	Delivery Method	Released by (Signature)	Date/Time Released	Company/Agency Affiliation	Condition Noted
Jon Aguilar	8/26/10 1700	Fay Ex				
			To Archive/Disposal			

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Gary, Indiana
Milwaukee, Wisconsin

Custody and Sample Information - Complete ALL information. Put N/A in blanks not applicable. Press firmly.

1. Sender's Name/Project No.	2. Sampling Site Address/Contact Telephone No.	Indicate Analysis Requested
1515.017.03	EAGLE ZINC Building N	

3. Sampled by (Signature)	4. # of Samples in Shipment	5. Date of Sample Shipment	6. Date Results Needed
Joe Aguilar	27	8/26/10	5 DAY TAT

Item No.	Sample Number	Sample Location/Description	COMP	GRAB	Matrix: WATER	SOIL	AIR	SLUDGE	OTHER	Method Preserved: HCl	HNO_3	H_2SO_4	ICE	NONE	OTHER	Sampling: Date	Time	VOLUME (L)	TIME (Minutes)	# of Containers	MCP				Laboratory Number
1	ANHA52-168	12"x12" ceiling tile central office		✓												8/21/10	1500			1					
2	-169	NW office																							
3	ANHA53-170	12"x12" grey floor tile/NE office SE																							
4	-171	S. central NE office																							
5	-172	NW office SW																							
6	ANHA54-173	12"x12" ceiling tile SE office closed																							
7	-174																								
8	-175																								
9	ANHA55-176	transite ceiling panel center mech. room																							
10	-177																								

Time In:	Time Out:	Total Hours:	Signature:	Print Name:

Released by (Signature)	Date/Time Released	Delivery Method	Released by (Signature)	Date/Time Released	Company/Agency Affiliation	Condition Noted
Joe Aguilar	8/25/10 1700	FED 2x				
			To Archive/Disposal			

Comments: STOP @ [illegible]

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fax: 312.3~~56.5499~~ 345-0529

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Milwaukee, Wisconsin

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1. Sender's Name/Project No.	2. Sampling Site Address/Contact Telephone No.	Indicate Analysis Requested
1515.017.03	Eagle Zinc. Building N	

3. Sampled by (Signature)	4. # of Samples in Shipment	5. Date of Sample Shipment	6. Date Results Needed
Jose Aguilera	27	8/26/10	5 day TAT.

Item No.	Sample Number	Sample Location/Description	COMP	GRAB	Matrix: WATER	SOIL	AIR	SLUDGE	OTHER	Method Preserved: HCl	HNO_3	H_2SO_4	ICE	NONE	OTHER	Sampling: Date	Time	VOLUME (L)	TIME (Minutes)	# of Containers	PCB					Laboratory Number
1	ANHA55-178	transite ceiling panel		✓												8/26/10	1500			1	✓					
2	ANHA56-179	N. exterior window glazing		↓												↓	↓			↓	↓					
3	↓ -180	E.																								
4	↓ -181	~~W~~ S.																								
5	ANHA57-182	~~E~~ N Roofing material																								
6	↓ -183	E																								
7	↓ -184	W																								
8																										
9																										
10																										

Time In:	Time Out:	Total Hours:	Signature:	Print Name:

Released by (Signature)	Date/Time Released	Delivery Method	Released by (Signature)	Date/Time Released	Company/Agency Affiliation	Condition Noted
Jose Aguilera	8/26/10 1700	FedEx				
			To Archive/Disposal			

Comments: Stop @ 1st Positive

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33 W. Monroe Ste 1525
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Chicago, Illinois 60603
phone: 312 ~~356-5400~~ 315-1400
fax: 312 ~~356-5409~~ 311-0128

Offices also in:
Columbus, Ohio
Gary, Indiana
Milwaukee, Wisconsin

Custody and Sample Information - Complete ALL information. Put N/A in blanks not applicable. Press firmly.

1. Sender's Name/Project No.	2. Sampling Site Address/Contact Telephone No.	Indicate Analysis Requested
1515 017.03	EAGLE Inc [illegible]	

3. Sampled by (Signature)	4. # of Samples in Shipment	5. Date of Sample Shipment	6. Date Results Needed
Joe [illegible]	32	8/26/10	5 DAY TAT

Item No	Sample Number	Sample Location/Description	COMP	GRAB	Matrix: WATER	SOIL	AIR	SLUDGE	OTHER	Method Preserved: HCl	HNO_3	H_2SO_4	ICE	NONE	OTHER	Sampling: Date	Time	VOLUME (L)	TIME (Minutes)	# of Containers	P	L	M				Laboratory Number
1	AOHA8-185	S. window glazing		✓												8/27/10	1630			1							
2	[illegible] -186	W.		↓												↓	↓			↓							
3	↓ -187	N. ↓		↓												↓	↓			↓							
4	AOHA8 [illegible]	E. Red caulking		↓												↓	↓			↓							
5	↓ -189	N. ↓		↓												↓	↓			↓							
6	↓ -190	S. ↓		↓												↓	↓			↓							
7	AOHA8-191	E Red flashing		↓												↓	↓			↓							
8	-192	N. ↓		↓												↓	↓			↓							
9	-193	S. ↓		↓												↓	↓			↓							
10	AOHA8-194	S. Red flashing		↓												↓	↓			↓							

Time In:	Time Out:	Total Hours:	Signature:	Print Name:

Released by (Signature)	Date/Time Released	Delivery Method	Released by (Signature)	Date/Time Released	Company/Agency Affiliation	Condition Noted
Joe [illegible]	8/26/10 1700	FED EX				
			To Archive/Disposal			

Comments: [illegible]

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Chicago, Illinois 60603
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fax: 312 ~~356-5499~~ 345-0529

Offices also in:
Columbus, Ohio
Gary, Indiana
Milwaukee, Wisconsin

Custody and Sample Information - Complete ALL information. Put N/A in blanks not applicable. Press firmly.

1. Sender's Name/Project No.	2. Sampling Site Address/Contact Telephone No.	Indicate Analysis Requested
1515 01703	EAGLE ZINC Building O	

3. Sampled by (Signature)	4. # of Samples in Shipment	5. Date of Sample Shipment	6. Date Results Needed
Jon Aguilar	22	8/26/10	5 DAY TAT

Item No.	Sample Number	Sample Location/Description	COMP	GRAB	Matrix: WATER	SOIL	AIR	SLUDGE	OTHER	Method Preserved: HCl	HNO_3	H_2SO_4	ICE	NONE	OTHER	Sampling: Date	Time	VOLUME (L)	TIME (Minutes)	# of Containers	MLP				Laboratory Number
1	ACHAG1-195	E Asphalt shingle		✓												8/31/10	1630			1					
2	-196	N																							
3	-197	S																							
4	ACHAG2-198	E asphalt roof scrubs																							
5	-199	N																							
6	-200	S																							
7	ACHAG3-201	E exterior window caulk																							
8	-202	E																							
9	-203	E																							
10	ACHAG4-204	E exterior door caulk																							

Time In:	Time Out:	Total Hours:	Signature:	Print Name.

Released by (Signature)	Date/Time Released	Delivery Method	Released by (Signature)	Date/Time Released	Company/Agency Affiliation	Condition Noted
Jon Aguilar	8/31/10 1700	FED EX				
			To Archive/Disposal			

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Custody and Sample Information - Complete ALL information. Put N/A in blanks not applicable. Press firmly.

1. Sender's Name/Project No.	2. Sampling Site Address/Contact Telephone No.	Indicate Analysis Requested
1515 017.03	EAGLE ZINC Building O	

3. Sampled by (Signature)	4. # of Samples in Shipment	5. Date of Sample Shipment	6. Date Results Needed
Jose Aguilar	22	8/26/10	5 DAY TAT

Item No.	Sample Number	Sample Location/Description	COMP	GRAB	Matrix: WATER	SOIL	AIR	SLUDGE	OTHER	Method Preserved: HCl	HNO_3	H_2SO_4	ICE	NONE	OTHER	Sampling: Date	Time	VOLUME (L)	TIME (Minutes)	# of Containers	PLM				Laboratory Number
1	ADHA69-205	E. exterior door caulk		✓												8/21/10	1630			1	↓				
2	↓ -206			↓												↓	↓			↓	↓				
3																									
4																									
5																									
6																									
7																									
8																									
9																									
10																									

Time In:	Time Out:	Total Hours:	Signature:	Print Name:

Released by (Signature)	Date/Time Released	Delivery Method	Released by (Signature)	Date/Time Released	Company/Agency Affiliation	Condition Noted
Jose Aguilar	8/21/10 1700	Fed Ex				
			To Archive/Disposal			

Comments: 5.05 @ 1st Positive

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1. Sender's Name/Project No.	2. Sampling Site Address/Contact Telephone No.	Indicate Analysis Requested
K. Temple / 1515.017.03	Eagle Zinc Building P1 + P2	

3. Sampled by (Signature)	4. # of Samples in Shipment	5. Date of Sample Shipment	6. Date Results Needed
[signature]	15	8/20/10	5 day TAT

Item No.	Sample Number	Sample Location/Description	COMP	GRAB	Matrix: WATER	SOIL	AIR	SLUDGE	OTHER	Method Preserved: HCl	HNO_3	H_2SO_4	ICE	NONE	OTHER	Sampling: Date	Time	VOLUME (L)	TIME (Minutes)	# of Containers	PLM				Laboratory Number
1	AP1 [illegible] -257	Exterior window caulk W		X												8/20/10	1200			1					
2	-258	N																							
3	-259	S																							
4	AP1 [illegible] -260	exterior door caulk W																							
5	-261	N																							
6	-262	E																							
7	AP1 [illegible] -263	interior window glazing W																							
8	-264	N																							
9	-265	S																							
10	AP1 [illegible] -266	Asphalt Roof field S																							

Time In:	Time Out:	Total Hours:	Signature:	Print Name:

Released by (Signature)	Date/Time Released	Delivery Method	Released by (Signature)	Date/Time Released	Company/Agency Affiliation	Condition Noted
[signature]	8/20/10 11:30	Fed Ex				
			To Archive/Disposal			

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Milwaukee, Wisconsin

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1. Sender's Name/Project No.	2. Sampling Site Address/Contact Telephone No.	Indicate Analysis Requested
K Templin / 1515.017.03	Eagle Zinc Building P1 + P2	

3. Sampled by (Signature)	4. # of Samples in Shipment	5. Date of Sample Shipment	6. Date Results Needed
[illegible]	15	8/26/10	5 day TAT

Item No.	Sample Number	Sample Location/Description	COMP	GRAB	Matrix: WATER	SOIL	AIR	SLUDGE	OTHER	Method Preserved: HCl	HNO_3	H_2SO_4	ICE	NONE	OTHER	Sampling: Date	Time	VOLUME (L)	TIME (Minutes)	# of Containers	PLM					Laboratory Number
1	AP1H4844-367	Asphalt Roof field ~~SE~~ SE		X												8/26/10	1200			1						
2	↓ -368	↓ SW ~~SE~~ NT																								
3	AP2H485-369	Roof field N. central																								
4	↓ -370	↓ NE																								
5	↓ -371	↓ NW																								
6																										
7																										
8																										
9																										
10																										

Time In:	Time Out:	Total Hours:	Signature:	Print Name:

Released by (Signature)	Date/Time Released	Delivery Method	Released by (Signature)	Date/Time Released	Company/Agency Affiliation	Condition Noted
[illegible]	8/26/10 14:50	Fed Ex				
			To Archive/Disposal			

Comments: [illegible]

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National Institute of Standards and Technology

NVLAP®

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Mt. Laurel, NJ

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BULK ASBESTOS FIBER ANALYSIS

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2005. This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system (refer to joint ISO-ILAC-IAF Communique dated January 2009).

2009-07-01 through 2010-06-30
Effective dates

Sally S. Bruce
For the National Institute of Standards and Technology

NVLAP-01C (REV. 2009-01-28)

United States Department of Commerce
National Institute of Standards and Technology

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This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2005. This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system (refer to joint ISO-ILAC-IAF Communique dated January 2009).

2009-07-01 through 2010-06-30
Effective dates

Sally S. Bruce
For the National Institute of Standards and Technology

NVLAP-01C (REV. 2009-01-28)

Appendix D: LBP Sample Log Sheets

EAGLE ZINC OU1
HILLSBORO, ILLINOIS

LEAD SAMPLE LOG – Building A						
Substrate	Component	Color	Sample Number	Test Location	Innovex Reading	Classification (+/-)
metal	support beam	grey	XRF-A-HA5-01	SE beam	1.51	+
metal	support beam	grey	XRF-A-HA5-02	S. central beam	>5.0	+
metal	support beam	grey	XRF-A-HA5-03	N. central beam	1.80	+
wood	door frame	grey	XRF-A-HA6-04	S. wall west side frame	4.47	+
wood	door frame	grey	XRF-A-HA6-05	S. wall east side frame	3.34	+
wood	door frame	grey	XRF-A-HA6-06	S. wall top of frame	0.07	-

LEAD SAMPLE LOG – Building B						
Substrate	Component	Color	Sample Number	Test Location	Innovex Reading	Classification (+/-)
wood	wall joist	bare	XRF-B-HA1-01	hallway N. wall	2.27	+
wood	wall joist	bare	XRF-B-HA1-02	hallway S. wall	4.76	+
wood	wall joist	bare	XRF-B-HA1-03	hallway ceiling joist	0.90	-
painted concrete	wall	red	XRF-B-HA2-04	west wall	1.00	+
painted wood	door frame	red	XRF-B-HA3-05	S. on door frame entering building A, W. side	2.42	+
painted wood	door frame	red	XRF-B-HA3-06	N. on door frame entering building A, W. side	0.02	-
painted wood	door frame	red	XRF-B-HA3-07	N. wall frame, W. side of frame	0.30	-
corrugated metal	exterior wall	grey	XRF-B-HA4-08	E. exterior	0.20	-
corrugated metal	exterior wall	grey	XRF-B-HA4-09	N. exterior	2.95	+
corrugated metal	exterior wall	grey	XRF-B-HA4-10	S. exterior	0.13	-

EAGLE ZINC OU1
HILLSBORO, ILLINOIS

LEAD SAMPLE LOG – Building C						
Substrate	Component	Color	Sample Number	Test Location	Innovex Reading	Classification (+/-)
Cinder Block	wall	grey	XRF-C-HA7-01	S. wall front office area	4.52	+
Cinder Block	wall	grey	XRF-C-HA7-02	W. wall front office area	3.59	+
Cinder Block	wall	grey	XRF-C-HA7-03	N. wall front office area	3.56	+
Particle board wood	wall	white	XRF-C-HA8-04	S. wall center, office with sink	0.00	-
Particle board wood	wall	white	XRF-C-HA8-05	S. wall east, office with sink	0.00	-
Particle board wood	wall	white	XRF-C-HA8-06	S. wall west, office with sink	0.00	-
wood	ceiling	white	XRF-C-HA9-07	NE corner of office with sink	0.13	-
wood	ceiling	white	XRF-C-HA9-08	SW corner of office with sink	0.27	-
wood	ceiling	white	XRF-C-HA9-09	front office area	0.02	-
wood	window frame	pink	XRF-C-HA10-10	front office E. window	0.03	-
wood	window frame	pink	XRF-C-HA10-11	wall around window frame, front office	0.02	-
wood	window frame	pink	XRF-C-HA10-12	wall around window frame, front office	0.10	-
metal	wall	yellow	XRF-C-HA11-13	N. wall E. side of wall N. of main office	0.00	-
metal	door frame	yellow	XRF-C-HA11-14	Door frame from main office	0.05	-
metal	wall	yellow	XRF-C-HA11-15	E. wall outside of main office	0.00	-

EAGLE ZINC OU1
HILLSBORO, ILLINOIS

LEAD SAMPLE LOG – Building C						
Substrate	Component	Color	Sample Number	Test Location	Innovex Reading	Classification (+/-)
metal	wall beam	red	XRF-C-HA12-16	S. wall E. beam	0.11	-
metal	wall beam	red	XRF-C-HA12-17	S. wall W. beam	0.06	-
metal	wall beam	red	XRF-C-HA12-18	N. wall mid room corner beam	0.09	-
metal	outer skirt of kiln	blue	XRF-C-HA13-19	central kiln, S. side	0.00	-
metal	thermostat panel	blue	XRF-C-HA13-20	S. side of panel near kiln	0.00	-
metal	kiln	blue	XRF-C-HA13-21	N. kiln E. side	0.04	-
metal	hopper	green	XRF-C-HA14-22	N. side of hopper, east room	0.00	-
metal	electrical panel	green	XRF-C-HA14-23	N. side E. room electrical panel near hopper	0.00	-
metal	hopper riser	green	XRF-C-HA14-24	E. room, E. side of hopper riser	0.00	-
metal	exterior corrugated	beige	XRF-C-HA15-25	E. exterior	0.00	-
metal	exterior corrugated	beige	XRF-C-HA15-26	N. exterior	0.00	-
metal	exterior corrugated	beige	XRF-C-HA15-27	N. exterior	0.01	-
metal	exterior doors	white	XRF-C-HA16-28	N. exterior east panel	0.00	-
metal	exterior doors	white	XRF-C-HA16-29	W. exterior	0.00	-
metal	exterior doors	white	XRF-C-HA16-30	N. exterior W. panel	0.00	-

Paint Chip sample was collected from HA11 (sample PC-C-HA11-01) laboratory result was 14 mg/kg lead, confirms XRF result as non-LBP.

EAGLE ZINC OU1
HILLSBORO, ILLINOIS

LEAD SAMPLE LOG – Building D1						
Substrate	Component	Color	Sample Number	Test Location	Innovex Reading	Classification (+/-)
wood	door	grey	XRF-D1-HA17-01	N. door entrance	>5.0	+
wood	door	grey	XRF-D1-HA17-02	top of door frame, N. entrance	4.29	+
wood	door	grey	XRF-D1-HA17-03	N. door entrance	>5.0	+
concrete	door casing	white	XRF-D1-HA18-04	N. side E. door casing off of N. entrance	0.00	-
concrete	door casing	white	XRF-D1-HA18-05	top of E. door casing off of N. entrance	0.60	-
concrete	door casing	white	XRF-D1-HA18-06	S. side E. door casing off of N. entrance	1.00	+
metal	hopper	white	XRF-D1-HA19-07	ground floor	0.25	-
metal	hopper	white w/ grey under	XRF-D1-HA19-08	ground floor	2.48	+
metal	hopper	white w/ grey under	XRF-D1-HA19-09	ground floor	1.65	+
concrete	wall	white	XRF-D1-HA20-10	hopper room W. wall	1.00	+
concrete	wall	white	XRF-D1-HA20-11	hopper room S. wall	0.06	-
concrete	wall	white	XRF-D1-HA20-12	hopper room E. wall	0.03	-
metal	board walk	white	XRF-D1-HA21-13	bottom of board walk, S. end	>5.0	+
metal	board walk	white	XRF-D1-HA21-14	bottom of board walk, central	>5.0	+
metal	board walk	white	XRF-D1-HA21-15	bottom of board walk, N. end	1.23	+
metal	stairs	white	XRF-D1-HA22-16	stair case, N. end	4.80	+
metal	stairs	white	XRF-D1-HA22-17	stair case, central	3.51	+

EAGLE ZINC OU1
HILLSBORO, ILLINOIS

LEAD SAMPLE LOG – Building D1						
Substrate	Component	Color	Sample Number	Test Location	Innovex Reading	Classification (+/-)
metal	stairs	white	XRF-D1-HA22-18	stair railing, central	3.22	+
wood	ceiling	white	XRF-D1-HA23-19	S. side room off of hopper room	>5.0	+
wood	wall	white	XRF-D1-HA23-20	S. side room off of hopper room	1.31	+
wood	ceiling joist	white	XRF-D1-HA23-21	S. side room off of hopper room	>5.0	+
metal	support beam	white w/ grey under	XRF-D1-HA31-22	NE beam	0.60	-
metal	support beam	white w/ grey under	XRF-D1-HA31-23	central beam	0.65	-
metal	support beam	white w/ grey under	XRF-D1-HA31-24	SW beam, central room	0.42	-
metal	machinery	blue	XRF-D1-HA32-25	conveyor control room hopper dumper	0.41	-
metal	machinery	blue	XRF-D1-HA32-26	conveyor control room hopper dumper	0.35	-
metal	machinery	blue	XRF-D1-HA32-27	feeder chute	0.00	-
metal	door	grey	XRF-D1-HA33-28	conveyor control room S. door	0.11	-
metal	wall	grey	XRF-D1-HA33-29	conveyor control room S. wall	2.84	+
metal	wall	grey	XRF-D1-HA33-30	conveyor control room W. wall	3.52	+
metal	exterior wall	grey	XRF-D1-HA34-31	SE wall	0.07	
metal	exterior wall	grey	XRF-D1-HA34-32	S. cove	4.38	+
metal	exterior wall	grey	XRF-D1-HA34-33	S. wall	1.83	+
wood	window frame	grey	XRF-D1-HA35-34	SE window, lower storage area w/ brick pilars	>5.0	+

LEAD SAMPLE LOG – Building D1						
Substrate	Component	Color	Sample Number	Test Location	Innovex Reading	Classification (+/-)
wood	window frame	grey	XRF-D1-HA35-35	NE window, lower storage area w/ brick pilars	>5.0	+
wood	window frame	grey	XRF-D1-HA35-36	NE window, lower storage area w/ brick pilars	>5.0	+
metal	pilar protector	yellow	XRF-D1-HA36-37	tin garage	0.00	-
metal	pilar protector	yellow	XRF-D1-HA36-38	tin garage	0.00	-
metal	guard rail	yellow	XRF-D1-HA36-39	tin garage	0.00	-
metal	support beam	red	XRF-D1-HA37-40	Center of N. wall tin garage	0.70	-
metal	support beam	red	XRF-D1-HA37-41	NW corner of tin garage	0.07	-
metal	support beam	red	XRF-D1-HA37-42	S. center of tin garage	0.00	-
metal	door frame	green	XRF-D1-HA38-43	N. lab door frame in tin garage	0.04	-
metal	door	green	XRF-D1-HA38-44	N. lab interior of door in tin garage	0.04	-
metal	door	green	XRF-D1-HA38-45	N. lab exterior of door in tin garage	0.03	-
metal	door frame	blue	XRF-D1-HA39-46	N. lab door frame in tin garage	0.04	-
metal	door	blue	XRF-D1-HA39-47	N. lab interior of door in tin garage	0.02	-
metal	door	blue	XRF-D1-HA39-48	N. lab exterior of door in tin garage	0.10	-

Paint Chip sample was collected from HA21 (sample PC-D1-HA21-01) laboratory result was 26,000 mg/kg lead, confirms XRF result as LBP.

Paint Chip sample was collected from HA31 (sample PC-D1-HA31-02) laboratory result was 4,200 mg/kg lead, confirms XRF result as non-LBP.

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HILLSBORO, ILLINOIS

LEAD SAMPLE LOG – Building D2						
Substrate	Component	Color	Sample Number	Test Location	Innovex Reading	Classification (+/-)
wood	door frame	grey	XRF-D4-HA30-01	SW door frame	>5.0	+
wood	door frame	grey	XRF-D4-HA30-02	NE door frame	>5.0	+
wood	door frame	grey	XRF-D4-HA30-03	NE door frame	>5.0	+

LEAD SAMPLE LOG – Building D3						
Substrate	Component	Color	Sample Number	Test Location	Innovex Reading	Classification (+/-)
wood	door frame	white	XRF-D4-HA28-01	SW door frame	>5.0	+
wood	door frame	white	XRF-D4-HA28-02	SW door frame	>5.0	+
wood	door frame	white	XRF-D4-HA28-03	SW door frame	>5.0	+
wood	door frame	grey	XRF-D4-HA29-04	NE door frame	>5.0	+
wood	door frame	grey	XRF-D4-HA29-05	NE door frame	>5.0	+
wood	door frame	grey	XRF-D4-HA29-06	NE door frame	>5.0	+

LEAD SAMPLE LOG – Building D4						
Substrate	Component	Color	Sample Number	Test Location	Innovex Reading	Classification (+/-)
wood	door frame	grey	XRF-D4-HA27-01	W. side of frame	>5.0	+
wood	door frame	grey	XRF-D4-HA27-02	E. side of frame	3.87	+
wood	door frame	grey	XRF-D4-HA27-03	top of frame	2.24	+

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LEAD SAMPLE LOG – Building D5						
Substrate	Component	Color	Sample Number	Test Location	Innovex Reading	Classification (+/-)
wood	door frame	grey	XRF-D5-HA22-01	W. side of frame	>5.0	+
wood	door	grey	XRF-D5-HA22-02	door	>5.0	+
wood	door frame	grey	XRF-D5-HA22-03	top of frame	1.03	+
wood	window frame	grey w/ yellow under	XRF-D5-HA23-04	NE part of building	>4.59	+
wood	window sash	grey w/ yellow under	XRF-D5-HA23-05	NE part of building	1.90	+
wood	window frame	grey w/ yellow under	XRF-D5-HA23-06	NE part of building	2.13	+
brick	wall	dark grey w/ yellow under	XRF-D5-HA24-07	NW wall	4.08	+
brick	wall	dark grey w/ yellow under	XRF-D5-HA24-08	SW wall	>5.0	+
brick	wall	dark grey w/ yellow under	XRF-D5-HA24-09	NE wall	>5.0	+
metal	wall	grey w/ yellow under	XRF-D5-HA25-10	base for air handling unit	>5.0	+
metal	air handling unit	grey w/ yellow under	XRF-D5-HA25-11	air handling unit drum casing	>5.0	+
metal	wall	grey w/ yellow under	XRF-D5-HA25-12	corrugated E. wall	>5.0	+
metal	wall	red	XRF-D5-HA26-13	SE side of exterior fan blower unit	2.03	+
metal	wall	red	XRF-D5-HA26-14	exterior wall frame SE side	1.15	+
metal	wall	red	XRF-D5-HA26-15	SE side of exterior fan blower unit	>5.0	+

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HILLSBORO, ILLINOIS

LEAD SAMPLE LOG – Building F1						
Substrate	Component	Color	Sample Number	Test Location	Innovex Reading	Classification (+/-)
metal	wall	grey	XRF-F1-HA57-01	N. exterior wall	0.20	-
metal	wall	grey	XRF-F1-HA57-02	W. exterior wall	0.03	-
metal	wall	grey	XRF-F1-HA57-03	S. exterior wall	0.13	-
wood	door frame	grey	XRF-F1-HA58-04	N. side door frame	0.23	-
wood	door	grey	XRF-F1-HA58-05	exterior of door	0.32	-
wood	door frame	grey	XRF-F1-HA58-06	S. side door frame	0.19	-
metal	hopper	red	XRF-F1-HA59-07	SE support beam	1.60	+
metal	hopper	red	XRF-F1-HA59-08	E. hopper	3.27	+
metal	hopper	red	XRF-F1-HA59-09	N. support beam	2.46	+

Note: standing water on the interior of building F1, no samples were tested on the interior

LEAD SAMPLE LOG – Building F2						
Substrate	Component	Color	Sample Number	Test Location	Innovex Reading	Classification (+/-)
metal	wall	grey	XRF-F2-HA60-01	E. exterior wall	0.06	-
metal	wall	grey	XRF-F2-HA60-02	N. exterior wall	0.04	-
metal	wall	grey	XRF-F2-HA60-03	W. exterior wall	0.09	-

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LEAD SAMPLE LOG – Building G						
Substrate	**Component**	**Color**	**Sample Number**	**Test Location**	**Innovex Reading**	**Classification (+/-)**
metal	wall	white	XRF-G-HA61-01	E. wall center	0.00	-
metal	wall	white	XRF-G-HA61-02	E. wall support plate	0.00	-
metal	wall	white	XRF-G-HA61-03	E. wall S. end	0.00	-
metal	support beam	blue	XRF-G-HA62-04	W. beam	0.00	-
metal	support beam	blue	XRF-G-HA62-05	N. central beam	0.00	-
metal	support beam	blue	XRF-G-HA62-06	NE beam	0.00	-
metal	wall	yellow	XRF-G-HA63-07	NW wall	0.00	-
metal	wall	yellow	XRF-G-HA63-08	N. wall central	0.00	-
metal	wall	yellow	XRF-G-HA63-09	NE wall	0.00	-

Paint Chip sample was collected from HA61 (sample PC-G-HA61-01) laboratory result was 26,000 mg/kg lead, XRF did not indicate positive lead in paint, but paint chip confirms lead in white paint at the metal wall in Building G or lead in residue on the paint chip.

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HILLSBORO, ILLINOIS

LEAD SAMPLE LOG – Building H						
Substrate	Component	Color	Sample Number	Test Location	Innovex Reading	Classification (+/-)
brick	wall	white w/ blue	XRF-H-HA64-01	N. exterior wall	0.00	-
brick	wall	white w/ blue	XRF-H-HA64-02	W. exterior wall	1.00	+
brick	wall	white w/ blue	XRF-H-HA64-03	S. exterior wall	0.00	-
wood	frames	white	XRF-H-HA65-04	door frame	0.03	-
wood	frames	white	XRF-H-HA65-05	W. window frame	0.05	-
wood	frames	white	XRF-H-HA65-06	N. window frame	0.06	-

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LEAD SAMPLE LOG – Building H2						
Substrate	Component	Color	Sample Number	Test Location	Innovex Reading	Classification (+/-)
metal	door	white	XRF-H2-HA114-01	E. door	3.41	+
metal	window frame	white	XRF-H2-HA114-02	E. window frame	1.98	+
metal	window frame	white	XRF-H2-HA114-03	N. window frame	1.12	+
brick	wall	white	XRF-H2-HA115-04	S. on interior wall	>5.0	+
brick	wall	white	XRF-H2-HA115-05	N. on interior wall, E. side	4.67	+
brick	wall	white	XRF-H2-HA115-06	N. on interior wall, W. side	>5.0	+
wood	door	white	XRF-H2-HA116-07	E. exit S. end door	0.03	-
wood	door	white	XRF-H2-HA116-08	E. exit frame N	>5.0	+
wood	door	white	XRF-H2-HA116-09	E. exit door	0.05	-
metal	exterior wall	grey	XRF-H2-HA117-10	E. wall	0.03	-
metal	exterior wall	grey	XRF-H2-HA117-11	S. wall	0.09	-
metal	exterior wall	grey	XRF-H2-HA117-12	W. wall	0.05	-

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LEAD SAMPLE LOG – Building H3						
Substrate	**Component**	**Color**	**Sample Number**	**Test Location**	**Innovex Reading**	**Classification (+/-)**
metal	exterior window	white	XRF-H3-HA112-01	E. window frame	>5.0	+
metal	exterior window	white	XRF-H3-HA112-02	W. window frame N	>5.0	+
metal	exterior window	white	XRF-H3-HA112-03	W. window frame S	>5.0	+
brick	exterior wall	blue	XRF-H3-HA113-04	S. wall	0.02	-
brick	exterior wall	blue	XRF-H3-HA113-05	W. wall	0.01	-
brick	exterior wall	blue	XRF-H3-HA113-06	N. wall	0.01	-

EAGLE ZINC OU1
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LEAD SAMPLE LOG – Building I1						
Substrate	Component	Color	Sample Number	Test Location	Innovex Reading	Classification (+/-)
metal	wall	white	XRF-I1-HA46-01	N. interior wall	0.00	-
metal	wall	white	XRF-I1-HA46-02	S. interior wall	0.00	-
metal	wall	white	XRF-I1-HA46-03	N. exterior wall	0.00	-

LEAD SAMPLE LOG – Building I2						
Substrate	Component	Color	Sample Number	Test Location	Innovex Reading	Classification (+/-)
metal	support beam	grey	XRF-I2-HA47-01	W. beam	>5.0	+
metal	support beam	grey	XRF-I2-HA47-02	N. beam	>5.0	+
metal	support beam	grey	XRF-I2-HA47-03	S. beam	>5.0	+
metal	hopper	grey	XRF-I2-HA48-04	central hopper S. side	0.03	-
metal	hopper	grey	XRF-I2-HA48-05	central hopper N. side	0.04	-
metal	hopper	grey	XRF-I2-HA48-06	central hopper NE side	0.01	-
metal	AST	blue	XRF-I2-HA49-07	S. side	0.00	-
metal	AST	blue	XRF-I2-HA49-08	W. side	0.01	-
metal	AST	blue	XRF-I2-HA49-09	E. side	0.00	-
wood	door frame	grey	XRF-I2-HA50-10	elevator door frame	0.14	-
wood	door frame	grey	XRF-I2-HA50-11	elevator door frame	2.88	+
wood	door frame	grey	XRF-I2-HA50-12	interior door frame	>5.0	+

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LEAD SAMPLE LOG – Building I3						
Substrate	Component	Color	Sample Number	Test Location	Innovex Reading	Classification (+/-)
wood	door frame	grey	XRF-I3-HA51-13	top of door frame W. side	2.66	+
wood	door frame	grey	XRF-I3-HA51-14	interior door frame	0.53	
wood	door frame	grey	XRF-I3-HA51-15	interior door frame	4.53	+
metal	conveyor belt support	red	XRF-I3-HA52-16	S. end support beam	0.38	-
metal	conveyor belt support	red	XRF-I3-HA52-17	central support beam	0.85	-
metal	conveyor belt support	red	XRF-I3-HA52-18	N. support beam	0.93	-
wood	floor	white	XRF-I3-HA53-19	upper level wood floor	>5.0	+
wood	wall beam	white	XRF-I3-HA53-20	W. wall support	>5.0	+
wood	wall beam	white	XRF-I3-HA53-21	E. wall support	>5.0	+
metal	wall	white	XRF-I3-HA54-22	W. exterior wall	0.68	-
metal	wall	white	XRF-I3-HA54-23	S. exterior wall	0.55	-
metal	wall	white	XRF-I3-HA54-24	E. exterior wall	0.31	-
metal	conveyor lift	grey	XRF-I3-HA55-25	N. side vertical conveyor	2.59	+
metal	conveyor lift	grey	XRF-I3-HA55-26	W. side vertical conveyor	2.12	+
metal	conveyor lift	grey	XRF-I3-HA55-27	E. side vertical conveyor	2.75	+
metal	conveyor	white w/ blue	XRF-I3-HA56-28	W. side conveyor housing	2.45	+
metal	conveyor	white w/ blue	XRF-I3-HA56-29	W. side conveyor support	1.60	+
metal	conveyor	white w/ blue	XRF-I3-HA56-30	top of conveyor housing	2.32	+

Paint Chip sample was collected from HA51 (sample PC-I3-HA51-01) laboratory result was 160,000 mg/kg lead, confirms XRF result as LBP.

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LEAD SAMPLE LOG – Building J						
Substrate	Component	Color	Sample Number	Test Location	Innovex Reading	Classification (+/-)
metal	door frame	blue	XRF-J-HA40-01	W. end interior garage	0.00	-
metal	door frame	blue	XRF-J-HA40-02	W. end interior garage	0.00	-
metal	door frame	blue	XRF-J-HA40-03	W. end interior garage	0.00	-
metal	support beam	grey	XRF-J-HA41-04	SW corner	3.61	+
metal	support beam	grey	XRF-J-HA41-05	S. center of wall	2.44	+
metal	support beam	grey	XRF-J-HA41-06	N. center of wall	>5.0	+
metal	wall	white	XRF-J-HA42-07	N. wall	0.00	-
metal	wall	white	XRF-J-HA42-08	E. wall	0.00	-
metal	wall	white	XRF-J-HA42-09	N. central wall	0.00	-
metal	support beam	white	XRF-J-HA43-10	NE corner by office	>5.0	+
metal	support beam	white	XRF-J-HA43-11	rotary kiln horizontal support beam	>5.0	+
metal	support beam	white	XRF-J-HA43-12	N. side structural support	0.00	-
metal	exterior wall	white	XRF-J-HA44-13	S. wall	0.10	-
metal	exterior wall	white	XRF-J-HA44-14	W. wall	0.00	-
metal	exterior wall	white	XRF-J-HA44-15	N. wall	0.00	-
metal	external conveyor	grey	XRF-J-HA44-16	stairs	0.00	-
metal	external conveyor	grey	XRF-J-HA44-17	riser	0.00	-
metal	external conveyor	grey	XRF-J-HA44-18	cat walk	0.00	-

Paint Chip sample was collected from HA41 (sample PC-J-HA41-01) laboratory result was 28,000 mg/kg lead, confirms XRF result as LBP.

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LEAD SAMPLE LOG – Building L1						
Substrate	Component	Color	Sample Number	Test Location	Innovex Reading	Classification (+/-)
plaster	wall	yellow	XRF-L1-HA99-01	N. wall	2.95	+
plaster	wall	yellow	XRF-L1-HA99-02	W. wall, interior	>1.0	+
plaster	wall	yellow	XRF-L1-HA99-03	E. wall, interior	0.01	-
wood	door frame	green	XRF-L1-HA100-04	hallway, S. door	0.31	-
wood	door frame	green	XRF-L1-HA100-05	hallway, N. door	1.00	+
wood	window casing	green	XRF-L1-HA100-06	hallway	0.37	-
wood	ceiling	white	XRF-L1-HA101-07	hallway	0.05	-
wood	ceiling	white	XRF-L1-HA101-08	NW room	1.54	+
wood	ceiling	white	XRF-L1-HA101-09	SW lab room	0.26	-
wood	door frame	white	XRF-L1-HA102-10	SW room S exit	0.89	-
wood	door frame	white	XRF-L1-HA102-11	central door, W side	0.78	-
wood	door	white	XRF-L1-HA102-12	E. exit	>5.0	+
brick	exterior wall	red	XRF-L1-HA103-13	E. wall	0.01	-
brick	exterior wall	red	XRF-L1-HA103-14	N. wall	0.02	-
brick	exterior wall	red	XRF-L1-HA103-15	W. wall	0.04	-

Paint Chip sample was collected from HA101 (sample PC-L1-HA101-01) laboratory result was 1,700 mg/kg lead, which suggests non-LBP. However, one of the XRF results exceeds 1.0, which suggests HA101 should be treated as LBP.

EAGLE ZINC OU1
HILLSBORO, ILLINOIS

LEAD SAMPLE LOG – Building L2						
Substrate	Component	Color	Sample Number	Test Location	Innovex Reading	Classification (+/-)
wood	door frame	white	XRF-L2-HA104-01	N. frame	0.02	-
wood	door frame	white	XRF-L2-HA104-02	central frame	0.15	-
wood	door frame	white	XRF-L2-HA104-03	S. frame	0.44	-
wood	ceiling joist	white	XRF-L2-HA104-04	S. joist	>5.0	+
wood	ceiling joist	white	XRF-L2-HA104-05	central joist	>5.0	+
wood	ceiling joist	white	XRF-L2-HA104-06	central location	>5.0	+
brick	exterior wall	red	XRF-L2-HA105-07	south pilar	0.01	-
brick	exterior wall	red	XRF-L2-HA105-08	SE wall	0.01	-
brick	exterior wall	red	XRF-L2-HA105-09	N. wall	0.00	-
concrete	exterior window sill	white	XRF-L2-HA106-10	N. sill	>5.0	+
concrete	exterior window sill	white	XRF-L2-HA106-11	central sill	4.35	+
concrete	exterior window sill	white	XRF-L2-HA106-12	S. sill	>5.0	+

EAGLE ZINC OU1
HILLSBORO, ILLINOIS

LEAD SAMPLE LOG – Building M						
Substrate	Component	Color	Sample Number	Test Location	Innovex Reading	Classification (+/-)
brick	wall	white	XRF-M-HA86-01	S. wall	0.02	-
brick	wall	white	XRF-M-HA86-02	W. wall	0.64	-
brick	wall	white	XRF-M-HA86-03	N. wall garage	0.17	-
wood	pilar	white	XRF-M-HA87-04	W. central pilar	1.21	+
wood	pilar	white	XRF-M-HA87-05	2nd W. pilar	1.00	+
wood	pilar	white	XRF-M-HA87-06	E. pilar	>5.0	+
wood	door	white	XRF-M-HA88-07	S. door	0.08	-
wood	door	white	XRF-M-HA88-08	W. interior door to shed	4.08	+
wood	door	white	XRF-M-HA88-09	W. entrance door	2.89	+
wood	door	grey	XRF-M-HA89-10	N. door in garage	4.19	+
wood	door frame	grey	XRF-M-HA89-11	N. interior door frame	1.16	+
wood	door frame	grey	XRF-M-HA89-12	door to office	>5.0	+
metal	support beam	white	XRF-M-HA90-13	NW support beam by office	4.57	+
metal	support beam	white	XRF-M-HA90-14	SW beam by office	3.81	+
metal	support beam	white	XRF-M-HA90-15	NE beam by office	1.63	+
wood	cabinet	white	XRF-M-HA91-16	E. central storage room side wall	>5.0	+
wood	cabinet	white	XRF-M-HA91-17	storage room cabinet door	0.50	-
wood	cabinet	white	XRF-M-HA91-18	storage room side wall to cabinet S. side	0.01	-
wood	ceiling joist	white	XRF-M-HA92-19	W. side joist work room, N. joist	0.01	-
wood	ceiling joist	white	XRF-M-HA92-20	S. joist	0.02	-

EAGLE ZINC OU1
HILLSBORO, ILLINOIS

LEAD SAMPLE LOG – Building M						
Substrate	**Component**	**Color**	**Sample Number**	**Test Location**	**Innovex Reading**	**Classification (+/-)**
wood	floor board	white	XRF-M-HA92-21	W. side work room floor board	0.01	-
concrete	pilar	white	XRF-M-HA93-22	central recreation room SE pilar	1.77	+
concrete	pilar	white	XRF-M-HA93-23	NW pilar	1.20	+
concrete	pilar	white	XRF-M-HA93-24	SW pilar	1.53	+
wood	wall	yellow	XRF-M-HA94-25	W. central room w/ sink S. wall	0.69	-
wood	wall	yellow	XRF-M-HA94-26	N wall W central room w/ sink	0.47	-
wood	wall	yellow	XRF-M-HA94-27	E wall w central room w/ sink	0.60	-
concrete	pilar	blue	XRF-M-HA95-28	central pilar lunch room	1.00	+
concrete	pilar	blue	XRF-M-HA95-29	N. pilar lunch room	1.00	+
brick	wall	blue	XRF-M-HA95-30	NE wall	1.14	+
concrete	floor	grey	XRF-M-HA96-31	NE in locker room	0.06	-
concrete	floor	grey	XRF-M-HA96-32	S. center in locker room	1.00	+
concrete	floor	grey	XRF-M-HA96-33	N. central in locker room	0.04	-
brick	exterior wall	red	XRF-M-HA97-34	W. wall	0.01	-
brick	exterior wall	red	XRF-M-HA97-35	S. wall	0.17	-
brick	exterior wall	red	XRF-M-HA97-36	E. wall	0.01	-
cinder block	exterior wall	white	XRF-M-HA98-37	E. wall N	1.00	+
cinder block	exterior wall	white	XRF-M-HA98-38	E. wall S	1.00	+
cinder block	exterior wall	white	XRF-M-HA98-39	N. wall of garage	0.03	-

Paint Chip sample was collected from HA91 (sample PC-M-HA91-01) laboratory result was 160 mg/kg lead, which suggests non-LBP. However, one of the XRF results exceeds 1.0, which suggests HA91 should be treated as LBP.

EAGLE ZINC OU1
HILLSBORO, ILLINOIS

LEAD SAMPLE LOG – Building N						
Substrate	Component	Color	Sample Number	Test Location	Innovex Reading	Classification (+/-)
wood	door	red	XRF-N-HA107-01	SE office door	0.03	-
wood	door	red	XRF-N-HA107-02	SW office door	0.01	-
wood	door	red	XRF-N-HA107-03	door to hallway	0.02	-
steel	door frame	black	XRF-N-HA108-04	main office restroom	0.00	-
steel	door frame	black	XRF-N-HA108-05	storage room door	0.00	-
steel	door frame	black	XRF-N-HA108-06	SE office door	0.00	-
cinder block	exterior wall	white w/ blue	XRF-N-HA109-07	E. wall	0.00	-
cinder block	exterior wall	white w/ blue	XRF-N-HA109-08	S. wall	0.00	-
cinder block	exterior wall	white w/ blue	XRF-N-HA109-09	N. wall	0.00	-
concrete	exterior window sill	blue	XRF-N-HA110-10	SE window	1.00	+
concrete	exterior window sill	blue	XRF-N-HA110-11	NE window	1.00	+
concrete	exterior window sill	blue	XRF-N-HA110-12	SW window	0.00	-
wood	exterior soffet	light blue	XRF-N-HA111-13	SE wall	0.05	-
wood	exterior soffet	light blue	XRF-N-HA111-14	S. wall	0.07	-
wood	exterior soffet	light blue	XRF-N-HA111-15	S. on W. wall	0.04	-

Paint Chip sample was collected from HA111 (sample PC-N-HA111-01) laboratory result was 400 mg/kg lead, which confirms the XRF results as non-LBP.

EAGLE ZINC OU1
HILLSBORO, ILLINOIS

LEAD SAMPLE LOG – Building O						
Substrate	Component	Color	Sample Number	Test Location	Innovex Reading	Classification (+/-)
brick	wall	white	XRF-O-HA80-01	N. wall	>5.0	+
brick	wall	white	XRF-O-HA80-02	E. wall	>5.0	+
brick	wall	white	XRF-O-HA80-03	S. wall	3.49	+
wood	door frame	white	XRF-O-HA81-04	S. door frame	0.10	-
wood	door	white	XRF-O-HA81-05	E. door	0.00	-
wood	door	white	XRF-O-HA81-06	N. door	0.04	-
metal	support beam	white	XRF-O-HA82-07	N. beam	0.03	-
metal	support beam	white	XRF-O-HA82-08	NW beam	0.10	-
metal	support beam	white	XRF-O-HA82-09	W. central beam	0.05	-
metal	support beam	grey	XRF-O-HA83-10	W. central beam	0.07	-
metal	support beam	grey	XRF-O-HA83-11	N. central beam	0.01	-
metal	support beam	grey	XRF-O-HA83-12	S. central beam	0.01	-
wood	ceiling joist	white	XRF-O-HA84-13	W. beam	>5.0	+
wood	ceiling joist	white	XRF-O-HA84-14	W. beam	>5.0	+
wood	ceiling	white	XRF-O-HA84-15	ceiling	>5.0	+
brick	exterior wall	red	XRF-O-HA85-16	E. wall	0.01	-
brick	exterior wall	red	XRF-O-HA85-17	S. wall	0.08	-
brick	exterior wall	red	XRF-O-HA85-18	N. wall	0.10	-

Paint Chip sample was collected from HA81 (sample PC-O-HA81-01) laboratory result was 660 mg/kg lead, confirms XRF result as non-LBP.

EAGLE ZINC OU1
HILLSBORO, ILLINOIS

LEAD SAMPLE LOG – Building P1						
Substrate	Component	Color	Sample Number	Test Location	Innovex Reading	Classification (+/-)
brick	wall	white	XRF-P1-HA73-01	S. wall	0.04	-
brick	wall	white	XRF-P1-HA73-02	E. wall	0.05	-
brick	wall	white	XRF-P1-HA73-03	N. wall	0.09	-
wood	door frame	white	XRF-P1-HA74-04	W. end door frame	>5.0	+
wood	wall	white	XRF-P1-HA74-05	E. side central wall	>5.0	+
wood	wall	white	XRF-P1-HA74-06	S. interior wall	>5.0	+
wood	wall	grey	XRF-P1-HA75-07	bookshelf wall	>5.0	+
wood	wall	grey	XRF-P1-HA75-08	S. interior wall	>5.0	+
wood	door frame	grey	XRF-P1-HA75-09	central door south side	>5.0	+
concrete	floor	grey	XRF-P1-HA76-10	SE in building	0.05	-
concrete	floor	grey	XRF-P1-HA76-11	center of floor	0.05	-
concrete	floor	grey	XRF-P1-HA76-12	NW floor	0.09	-
brick	wall	grey	XRF-P1-HA77-13	W. wall	>5.0	+
brick	wall	grey	XRF-P1-HA77-14	N. wall	>5.0	+
brick	wall	grey	XRF-P1-HA77-15	S. wall in office	>5.0	+
brick	exterior wall	red	XRF-P1-HA78-16	N. wall	0.02	-
brick	exterior wall	red	XRF-P1-HA78-17	W. wall	0.06	-
brick	exterior wall	red	XRF-P1-HA78-18	S. wall	0.01	-
metal	exterior wall	grey	XRF-P1-HA79-19	S. wall	0.05	-
metal	exterior wall	grey	XRF-P1-HA79-20	E. wall	0.15	-
metal	exterior wall	grey	XRF-P1-HA79-21	N. wall	0.09	-

EAGLE ZINC OU1
HILLSBORO, ILLINOIS

LEAD SAMPLE LOG – Building P2						
Substrate	Component	Color	Sample Number	Test Location	Innovex Reading	Classification (+/-)
brick	wall	white	XRF-P2-HA66-01	W. wall	0.06	-
brick	wall	white	XRF-P2-HA66-02	S. wall W. end	0.06	-
brick	wall	white	XRF-P2-HA66-03	S. wall E. end	0.06	-
brick	wall	dark grey	XRF-P2-HA67-04	W. wall	>5.0	+
brick	wall	dark grey	XRF-P2-HA67-05	S. wall W. end	>5.0	+
brick	wall	dark grey	XRF-P2-HA67-06	S. wall E. end	>5.0	+
wood	wall	white	XRF-P2-HA68-07	N. wall W	0.02	-
wood	wall	white	XRF-P2-HA68-08	N. wall center	0.01	-
wood	wall	white	XRF-P2-HA68-09	N. wall E.	0.03	-
wood	panel	white	XRF-P2-HA69-10	center of E wall	>5.0	+
wood	panel	white	XRF-P2-HA69-11	S. on E. wall	>5.0	+
wood	panel	white	XRF-P2-HA69-12	N. on E. wall	>5.0	+
wood	panel	grey	XRF-P2-HA70-13	S. of E. wall	>5.0	+
wood	panel	grey	XRF-P2-HA70-14	center on E. wall	>5.0	+
wood	panel	grey	XRF-P2-HA70-15	N. on E. wall	>5.0	+
wood	door	white	XRF-P2-HA71-16	interior NE door	0.00	-
wood	door	white	XRF-P2-HA71-17	exterior NE door	0.29	-
wood	door	white	XRF-P2-HA71-18	interior NW door	0.10	-
brick	exterior wall	red	XRF-P2-HA72-19	N. wall	0.01	-
brick	exterior wall	red	XRF-P2-HA72-20	E. wall	0.02	-
brick	exterior wall	red	XRF-P2-HA72-21	S. wall	0.03	-

Paint Chip sample was collected from HA71 (sample PC-P2-HA71-01) laboratory result was 2,600 mg/kg lead, confirms XRF result as non-LBP.

EAGLE ZINC OU1
HILLSBORO, ILLINOIS

LEAD SAMPLE LOG – ASTs						
Substrate	**Component**	**Color**	**Sample Number**	**Test Location**	**Innovex Reading**	**Classification (+/-)**
metal	exterior tank	white	XRFAST-HA118-01	west tank	2.93	+
metal	exterior tank	white	XRF-AST-HA118-02	west tank	2.07	+
metal	exterior tank	white	XRF-AST-HA118-03	west tank	2.06	+
metal	support beam	white	XRF-AST-HA119-04	W. beam	0.65	-
metal	support beam	white	XRF-AST-HA119-05	central beam	1.37	+
metal	support beam	white	XRF-AST-HA119-06	N. beam	1.11	+

Appendix E: Residual Results

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TABLE 1: LEAD RESULTS FOR RESIDUAL SAMPLES

August-September 2010

EAGLE ZINC OU1
HILLSBORO, ILLINOIS

RESIDUAL SAMPLE LOG			Lead Results	
Sample Number	Material Description	Sample Location	Total Lead (mg/kg)	TCLP Lead (mg/L)
R-B-HA4-17 (lab R-B-HA3-17)	Concrete	Building B - tin building south wall east end interior	41	0.0947
R-A-HA4-18	Concrete	Building A - east floor	1100	1.06
R-B-HA3-18	Brick	Building B - interior north wall east end	810	5.05
R-B-HA4-19	Concrete	Building B - east, west, and center	350	0.195
R-C-HA1-01	residual product	Building C - center furnace	370	1.3
R-C-HA1-02	residual brick and product	Building C - west furnace	22000	28.9
R-C-HA2-01	cinder block	Building C - west wall	110	0.111
R-CS-HA1-16	chimney stack ash	Chimney stack	190	U
R-D1-HA2-03	product and brick	Building D1 - exterior north wall	1800	3.24
R-D1-HA2-04	white product	Building D1 - north end metal machine	1500	3.95
R-D1-HA2-05	white product	Building D1 - grey, weathered or burned	15000	6
R-D1-HA2-06	white product	Building D1 - grey, chunk more solid	53000	22.7
R-D1-HA3-11	brick	Building D1 - interior by north lab	140	1.13
R-D1-HA4-09	Concrete	Building D1 - floor along west wall	6200	0.0583
R-D1-HA4-10	Concrete	Building D1 - wall exterior NW corner	110	0.0744
R-D2-HA3-07	Brick	Building D2 - north wall	51	2.38
R-D2-HA3-08	Brick Duplicate	Building D2 - north wall	9.1	0.0923
RD-D1-HA4-20	Concrete	Building D1 - hallway north, center, east, and south duplicate	1500	0.191
RD-D1-HA4-21	Concrete	Building D1 - hallway north, center, east, and south	2000	0.161
R-G-HA4-16	concrete	Building G - concrete wall	13	0.0815
R-G-HA4-22	Concrete	Building G - center, north, south, and west	830	0.163
R-I-HA1-15	product in metal	between Building I and Building J	630	0.867
R-J-HA1-12	brick furnace	Building J - west end	40	0.357
R-J-HA4-13	concrete base of machine	Building J	370	0.0889
R-J-HA4-14	concrete floor	Building J - high floor east	200	0.118
R-K-HA3-19	brick	Building K - southside	71	0.0714
R-L1-HA3-20	brick	Building L1 - northwall	240	3.72
R-L1-HA3-21	Brick Duplicate	Building L1 - northwall duplicate	89	0.179
R-M-HA3-24	composite brick	Building M - north, west, and south walls	48	0.51
R-M-HA3-22	brick	Building M - east wall	94	0.304
R-M-HA4-23	Concrete	Building M - center, north, east, south and west	240	0.105
R-N-HA2-02	cinder block	Building N - exterior east wall	2.4	0.116
R-P1-HA3-22	exterior brick	Building P1 - north side	21	0.0585
R-P1-HA3-23	composite brick	Building P1 - south, west, and north walls	1100	11.9
Concentration of Contaminant for the Toxicity Characteristic (40 CFR 261.3)				5
Construction Worker Soil Remediation Objective for Ingestion (35 IAC Part 742)			700	

Concentrations above the Toxicity Characteristic are considered a lead hazardous waste and would require hazardous waste disposal and/or stabilization

Concentrations above the CW SRO will require health and safety precautions and special handling.

TABLE 2: TCLP METAL RESULTS FOR RESIDUAL SAMPLES

August-September 2010

EAGLE ZINC OU1
HILLSBORO, ILLINOIS

RESIDUAL SAMPLE LOG			Other TCLP Metal Results (Mg/L)				
Sample Number	Material Description	Sample Location	Copper	Manganese	Zinc	Arsenic	Cadmium
R-B-HA4-17 (lab R-B-HA3-17)	Concrete	Building B - tin building south wall east end interior	U	1.16	34.4	U	0.0369
R-A-HA4-18	Concrete	Building A - east floor	0.102	1.34	**207**	U	0.284
R-B-HA3-18	Brick	Building B - interior north wall east end	0.286	0.618	**3310**	U	0.186
R-B-HA4-19	Concrete	Building B - east, west, and center	0.151	1.66	**386**	U	0.0673
R-C-HA1-01	residual product	Building C - center furnace	U	0.0822	**2780**	U	**2.59**
R-C-HA1-02	residual brick and product	Building C - west furnace	U	0.434	**2450**	U	0.0403
R-C-HA2-01	cinder block	Building C - west wall	0.0921	2.19	**296**	U	0.0233
R-CS-HA1-16	chimney stack ash	Chimney stack	0.132	3.07	**397**	U	0.04
R-D1-HA2-03	product and brick	Building D1 - exterior north wall	0.185	0.0739	**3230**	U	0.916
R-D1-HA2-04	white product	Building D1 - north end metal machine	U	0.0173	**3090**	U	0.154
R-D1-HA2-05	white product	Building D1 - grey, weathered or burned	0.607	0.923	**4180**	U	**3.47**
R-D1-HA2-06	white product	Building D1 - grey, chunk more solid	0.24	0.521	**1280**	U	**12.8**
R-D1-HA3-11	brick	Building D1 - interior by north lab	0.0797	0.599	**485**	U	0.218
R-D1-HA4-09	Concrete	Building D1 - floor along west wall	U	0.377	0.399	U	0.233
R-D1-HA4-10	Concrete	Building D1 - wall exterior NW corner	U	0.116	5.33	U	U
R-D2-HA3-07	Brick	Building D2 - north wall	0.203	0.138	**77.9**	U	0.053
R-D2-HA3-08	Brick Duplicate	Building D2 - north wall	U	0.291	10.6	U	0.0428
RD-D1-HA4-20	Concrete	Building D1 - hallway north, center, east, and south duplicate	0.0726	3.07	**395**	U	**4.72**
RD-D1-HA4-21	Concrete	Building D1 - hallway north, center, east, and south	U	2.72	**239**	U	**2.35**
R-G-HA4-16	concrete	Building G - concrete wall	0.0651	2.1	**119**	U	0.0125
R-G-HA4-22	Concrete	Building G - center, north, south, and west	0.0703	2.16	**2490**	U	**2.17**
R-I-HA1-15	product in metal	between Building I and Building J	U	0.693	**3470**	U	0.53
R-J-HA1-12	brick furnace	Building J - west end	U	1.48	**1450**	U	0.779
R-J-HA4-13	concrete base of machine	Building J	0.225	0.855	**378**	U	0.123
R-J-HA4-14	concrete floor	Building J - high floor east	U	1.39	**387**	U	0.725
R-K-HA3-19	brick	Building K - southside	U	0.356	**83.5**	U	0.227
R-L1-HA3-20	brick	Building L1 - northwall	0.0761	0.554	55.7	U	0.0915
R-L1-HA3-21	Brick Duplicate	Building L1 - northwall duplicate	0.0613	0.166	16.5	U	0.0343
R-M-HA3-24	composite brick	Building M - north, west, and south walls	0.0817	0.42	18.5	U	0.036
R-M-HA3-22	brick	Building M - east wall	0.104	0.53	45.4	U	0.052
R-M-HA4-23	Concrete	Building M - center, north, east, south and west	U	2.42	38.5	U	0.0322
R-N-HA2-02	cinder block	Building N - exterior east wall	U	1.58	20.2	U	0.0108
R-P1-HA3-22	exterior brick	Building P1 - north side	U	0.324	13.9	U	0.0236
R-P1-HA3-23	composite brick	Building P1 - south, west, and north walls	0.182	0.9	15.5	U	0.0743
Concentration of Contaminant for the Toxicity Characteristic (40 CFR 261.30 Table 1)			NA	NA	NA	5	1
Generic Exclusion Levels for F006 non Wastewater HTMR residues (40 CFR 261.3)					70	0.5	0.05
"Non-wastewater residue, such as slag, resulting from … kilns", this description may be similar to conditions observed							
Universal Treatment Standards (40 CFR 268.48)					4.3		0.11

TABLE 3: OTHER TOTAL METALS RESULTS FOR RESIDUAL SAMPLES

August-September 2010

EAGLE ZINC OU1
HILLSBORO, ILLINOIS

RESIDUAL SAMPLE LOG			Other Total Metal Results (mg/kg)				
Sample Number	Material Description	Sample Location	Copper	Manganese	Zinc	Arsenic	Cadmium
R-B-HA4-17 (lab R-B-HA3-17)	Concrete	Building B - tin building south wall east end interior	9.9	310	2600	1.9	2.6
R-A-HA4-18	Concrete	Building A - east floor	59	760	21000	14	21
R-B-HA3-18	Brick	Building B - interior north wall east end	78	300	250000	3.9	12
R-B-HA4-19	Concrete	Building B - east, west, and center	340	420	60000	2	6.1
R-C-HA1-01	residual product	Building C - center furnace	83	12	610000	2.2	150
R-C-HA1-02	residual brick and product	Building C - west furnace	300	98	550000	6.7	71
R-C-HA2-01	cinder block	Building C - west wall	55	390	8300	1.5	3.4
R-CS-HA1-16	chimney stack ash	Chimney stack	150	810	140000	5.7	26
R-D1-HA2-03	product and brick	Building D1 - exterior north wall	120	16	570000	3.5	92
R-D1-HA2-04	white product	Building D1 - north end metal machine	8.5	7.2	580000	U	21
R-D1-HA2-05	white product	Building D1 - grey, weathered or burned	730	660	380000	37	220
R-D1-HA2-06	white product	Building D1 - grey, chunk more solid	2000	150	520000	83	930
R-D1-HA3-11	brick	Building D1 - interior by north lab	6.7	180	23000	2.2	11
R-D1-HA4-09	Concrete	Building D1 - floor along west wall	69	450	92000	4.4	920
R-D1-HA4-10	Concrete	Building D1 - wall exterior NW corner	27	380	6200	U	6.8
R-D2-HA3-07	Brick	Building D2 - north wall	5.4	76	1400	U	1
R-D2-HA3-08	Brick Duplicate	Building D2 - north wall	2.8	210	510	2.6	1.4
RD-D1-HA4-20	Concrete	Building D1 - hallway north, center, east, and south duplicate	56	590	39000	7.3	460
RD-D1-HA4-21	Concrete	Building D1 - hallway north, center, east, and south	76	550	58000	4.2	260
R-G-HA4-16	concrete	Building G - concrete wall	40	250	5100	U	0.7
R-G-HA4-22	Concrete	Building G - center, north, south, and west	340	570	450000	9.8	450
R-I-HA1-15	product in metal	between Building I and Building J	59	74	580000	5.2	38
R-J-HA1-12	brick furnace	Building J - west end	22	190	39000	2.7	26
R-J-HA4-13	concrete base of machine	Building J	1000	570	170000	21	37
R-J-HA4-14	concrete floor	Building J - high floor east	41	380	32000	2.1	96
R-K-HA3-19	brick	Building K - southside	19	300	7100	2.6	16
R-L1-HA3-20	brick	Building L1 - northwall	11	150	2500	2.3	3.1
R-L1-HA3-21	Brick Duplicate	Building L1 - northwall duplicate	9.2	280	2500	3.1	3.8
R-M-HA3-24	composite brick	Building M - north, west, and south walls	3	160	350	1.9	1.4
R-M-HA3-22	brick	Building M - east wall	20	130	3800	3.7	3.5
R-M-HA4-23	Concrete	Building M - center, north, east, south and west	180	850	5500	9	4.5
R-N-HA2-02	cinder block	Building N - exterior east wall	11	290	79	3.1	0.2
R-P1-HA3-22	exterior brick	Building P1 - north side	6.6	100	1100	2.8	1.1
R-P1-HA3-23	composite brick	Building P1 - south, west, and north walls	35	150	3300	3.4	9.3
Construction Worker Soil Remediation Objective for Ingestion (35 IAC Part 742)			8200	4100	61000	61	200

CW SRO for total Copper is 8,200 mg/kg
CW SRO for total Manganese is 4,100 mg/kg
CW SRO for total Zinc is 61,000 mg/kg
CW SRO for total Arsenic is 61 mg/kg for Ingestion, 25,000mg/kg for Inhalation
CW SRO for total Cadmium is 200 mg/kg for Ingestion, 59,000 mg/kg for inhalation

CLIENT	PROJECT	PROJECTNUM	LabName	SAMPLENAME	LABSAMPID	MATRIX	RPTMATRIX	BATCH	METHODCODE	ANALYTE	CASNUMBER	Result	DL	RL
Superfund, US EPA Region 5	Eagle Zinc	10CE30	TechLaw - ESAT Contract	R-B-HA3-17	E100806-01	TCLP EXTRACT	Soil	EI00203	Metals ICP TCLP TAL	Copper	7440-50-8	U	50.0	250
Superfund, US EPA Region 5	Eagle Zinc	10CE30	TechLaw - ESAT Contract	R-B-HA3-17	E100806-01	TCLP EXTRACT	Soil	EI00203	Metals ICP TCLP TAL	Lead	7439-92-1	94.7	30.0	100
Superfund, US EPA Region 5	Eagle Zinc	10CE30	TechLaw - ESAT Contract	R-B-HA3-17	E100806-01	TCLP EXTRACT	Soil	EI00203	Metals ICP TCLP TAL	Manganese	7439-96-5	1160	10.0	150
Superfund, US EPA Region 5	Eagle Zinc	10CE30	TechLaw - ESAT Contract	R-B-HA3-17	E100806-01	TCLP EXTRACT	Soil	EI00203	Metals ICP TCLP TAL	Zinc	7440-66-6	34400	40.0	600
Superfund, US EPA Region 5	Eagle Zinc	10CE30	TechLaw - ESAT Contract	R-B-HA3-17	E100806-01	TCLP EXTRACT	Soil	EI00203	Metals ICP TCLP TAL	Arsenic	7440-38-2	U	80.0	200
Superfund, US EPA Region 5	Eagle Zinc	10CE30	TechLaw - ESAT Contract	R-B-HA3-17	E100806-01	TCLP EXTRACT	Soil	EI00203	Metals ICP TCLP TAL	Cadmium	7440-43-9	36.9	5.0	50.0
Superfund, US EPA Region 5	Eagle Zinc	10CE30	TechLaw - ESAT Contract	R-B-HA3-18	E100806-02	TCLP EXTRACT	Soil	EI00203	Metals ICP TCLP TAL	Copper	7440-50-8	286	50.0	250
Superfund, US EPA Region 5	Eagle Zinc	10CE30	TechLaw - ESAT Contract	R-B-HA3-18	E100806-02	TCLP EXTRACT	Soil	EI00203	Metals ICP TCLP TAL	Lead	7439-92-1	5050	30.0	100
Superfund, US EPA Region 5	Eagle Zinc	10CE30	TechLaw - ESAT Contract	R-B-HA3-18	E100806-02	TCLP EXTRACT	Soil	EI00203	Metals ICP TCLP TAL	Manganese	7439-96-5	618	10.0	150
Superfund, US EPA Region 5	Eagle Zinc	10CE30	TechLaw - ESAT Contract	R-B-HA3-18	E100806-02	TCLP EXTRACT	Soil	EI00203	Metals ICP TCLP TAL	Zinc	7440-66-6	3310000	400	6000
Superfund, US EPA Region 5	Eagle Zinc	10CE30	TechLaw - ESAT Contract	R-B-HA3-18	E100806-02	TCLP EXTRACT	Soil	EI00203	Metals ICP TCLP TAL	Arsenic	7440-38-2	U	80.0	200
Superfund, US EPA Region 5	Eagle Zinc	10CE30	TechLaw - ESAT Contract	R-B-HA3-18	E100806-02	TCLP EXTRACT	Soil	EI00203	Metals ICP TCLP TAL	Cadmium	7440-43-9	186	5.0	50.0
Superfund, US EPA Region 5	Eagle Zinc	10CE30	TechLaw - ESAT Contract	R-D1-HA4-09	E100806-03	TCLP EXTRACT	Soil	EI00202	Metals ICP TCLP TAL	Copper	7440-50-8	U	50.0	250
Superfund, US EPA Region 5	Eagle Zinc	10CE30	TechLaw - ESAT Contract	R-D1-HA4-09	E100806-03	TCLP EXTRACT	Soil	EI00202	Metals ICP TCLP TAL	Lead	7439-92-1	58.3	30.0	100
Superfund, US EPA Region 5	Eagle Zinc	10CE30	TechLaw - ESAT Contract	R-D1-HA4-09	E100806-03	TCLP EXTRACT	Soil	EI00202	Metals ICP TCLP TAL	Manganese	7439-96-5	377	10.0	150
Superfund, US EPA Region 5	Eagle Zinc	10CE30	TechLaw - ESAT Contract	R-D1-HA4-09	E100806-03	TCLP EXTRACT	Soil	EI00202	Metals ICP TCLP TAL	Zinc	7440-66-6	399	40.0	600
Superfund, US EPA Region 5	Eagle Zinc	10CE30	TechLaw - ESAT Contract	R-D1-HA4-09	E100806-03	TCLP EXTRACT	Soil	EI00202	Metals ICP TCLP TAL	Arsenic	7440-38-2	U	80.0	200
Superfund, US EPA Region 5	Eagle Zinc	10CE30	TechLaw - ESAT Contract	R-D1-HA4-09	E100806-03	TCLP EXTRACT	Soil	EI00202	Metals ICP TCLP TAL	Cadmium	7440-43-9	233	5.0	50.0
Superfund, US EPA Region 5	Eagle Zinc	10CE30	TechLaw - ESAT Contract	R-D1-HA4-10	E100806-04	TCLP EXTRACT	Soil	EI00202	Metals ICP TCLP TAL	Copper	7440-50-8	U	50.0	250
Superfund, US EPA Region 5	Eagle Zinc	10CE30	TechLaw - ESAT Contract	R-D1-HA4-10	E100806-04	TCLP EXTRACT	Soil	EI00202	Metals ICP TCLP TAL	Lead	7439-92-1	74.4	30.0	100
Superfund, US EPA Region 5	Eagle Zinc	10CE30	TechLaw - ESAT Contract	R-D1-HA4-10	E100806-04	TCLP EXTRACT	Soil	EI00202	Metals ICP TCLP TAL	Manganese	7439-96-5	116	10.0	150
Superfund, US EPA Region 5	Eagle Zinc	10CE30	TechLaw - ESAT Contract	R-D1-HA4-10	E100806-04	TCLP EXTRACT	Soil	EI00202	Metals ICP TCLP TAL	Zinc	7440-66-6	5330	40.0	600
Superfund, US EPA Region 5	Eagle Zinc	10CE30	TechLaw - ESAT Contract	R-D1-HA4-10	E100806-04	TCLP EXTRACT	Soil	EI00202	Metals ICP TCLP TAL	Arsenic	7440-38-2	U	80.0	200
Superfund, US EPA Region 5	Eagle Zinc	10CE30	TechLaw - ESAT Contract	R-D1-HA4-10	E100806-04	TCLP EXTRACT	Soil	EI00202	Metals ICP TCLP TAL	Cadmium	7440-43-9	U	5.0	50.0
Superfund, US EPA Region 5	Eagle Zinc	10CE30	TechLaw - ESAT Contract	R-D2-HA3-08	E100806-05	TCLP EXTRACT	Soil	EI00202	Metals ICP TCLP TAL	Copper	7440-50-8	U	50.0	250
Superfund, US EPA Region 5	Eagle Zinc	10CE30	TechLaw - ESAT Contract	R-D2-HA3-08	E100806-05	TCLP EXTRACT	Soil	EI00202	Metals ICP TCLP TAL	Lead	7439-92-1	92.3	30.0	100
Superfund, US EPA Region 5	Eagle Zinc	10CE30	TechLaw - ESAT Contract	R-D2-HA3-08	E100806-05	TCLP EXTRACT	Soil	EI00202	Metals ICP TCLP TAL	Manganese	7439-96-5	291	10.0	150
Superfund, US EPA Region 5	Eagle Zinc	10CE30	TechLaw - ESAT Contract	R-D2-HA3-08	E100806-05	TCLP EXTRACT	Soil	EI00202	Metals ICP TCLP TAL	Zinc	7440-66-6	10600	40.0	600
Superfund, US EPA Region 5	Eagle Zinc	10CE30	TechLaw - ESAT Contract	R-D2-HA3-08	E100806-05	TCLP EXTRACT	Soil	EI00202	Metals ICP TCLP TAL	Arsenic	7440-38-2	U	80.0	200
Superfund, US EPA Region 5	Eagle Zinc	10CE30	TechLaw - ESAT Contract	R-D2-HA3-08	E100806-05	TCLP EXTRACT	Soil	EI00202	Metals ICP TCLP TAL	Cadmium	7440-43-9	42.8	5.0	50.0
Superfund, US EPA Region 5	Eagle Zinc	10CE30	TechLaw - ESAT Contract	RD-D2-HA3-07	E100806-06	TCLP EXTRACT	Soil	EI00202	Metals ICP TCLP TAL	Copper	7440-50-8	203	50.0	250
Superfund, US EPA Region 5	Eagle Zinc	10CE30	TechLaw - ESAT Contract	RD-D2-HA3-07	E100806-06	TCLP EXTRACT	Soil	EI00202	Metals ICP TCLP TAL	Lead	7439-92-1	2380	30.0	100
Superfund, US EPA Region 5	Eagle Zinc	10CE30	TechLaw - ESAT Contract	RD-D2-HA3-07	E100806-06	TCLP EXTRACT	Soil	EI00202	Metals ICP TCLP TAL	Manganese	7439-96-5	138	10.0	150
Superfund, US EPA Region 5	Eagle Zinc	10CE30	TechLaw - ESAT Contract	RD-D2-HA3-07	E100806-06	TCLP EXTRACT	Soil	EI00202	Metals ICP TCLP TAL	Zinc	7440-66-6	77900	40.0	600
Superfund, US EPA Region 5	Eagle Zinc	10CE30	TechLaw - ESAT Contract	RD-D2-HA3-07	E100806-06	TCLP EXTRACT	Soil	EI00202	Metals ICP TCLP TAL	Arsenic	7440-38-2	U	80.0	200
Superfund, US EPA Region 5	Eagle Zinc	10CE30	TechLaw - ESAT Contract	RD-D2-HA3-07	E100806-06	TCLP EXTRACT	Soil	EI00202	Metals ICP TCLP TAL	Cadmium	7440-43-9	53.0	5.0	50.0
Superfund, US EPA Region 5	Eagle Zinc	10CE30	TechLaw - ESAT Contract	R-G-HA4-16	E100806-07	TCLP EXTRACT	Soil	EI00203	Metals ICP TCLP TAL	Copper	7440-50-8	65.1	50.0	250
Superfund, US EPA Region 5	Eagle Zinc	10CE30	TechLaw - ESAT Contract	R-G-HA4-16	E100806-07	TCLP EXTRACT	Soil	EI00203	Metals ICP TCLP TAL	Lead	7439-92-1	81.5	30.0	100
Superfund, US EPA Region 5	Eagle Zinc	10CE30	TechLaw - ESAT Contract	R-G-HA4-16	E100806-07	TCLP EXTRACT	Soil	EI00203	Metals ICP TCLP TAL	Manganese	7439-96-5	2100	10.0	150
Superfund, US EPA Region 5	Eagle Zinc	10CE30	TechLaw - ESAT Contract	R-G-HA4-16	E100806-07	TCLP EXTRACT	Soil	EI00203	Metals ICP TCLP TAL	Zinc	7440-66-6	119000	40.0	600
Superfund, US EPA Region 5	Eagle Zinc	10CE30	TechLaw - ESAT Contract	R-G-HA4-16	E100806-07	TCLP EXTRACT	Soil	EI00203	Metals ICP TCLP TAL	Arsenic	7440-38-2	U	80.0	200
Superfund, US EPA Region 5	Eagle Zinc	10CE30	TechLaw - ESAT Contract	R-G-HA4-16	E100806-07	TCLP EXTRACT	Soil	EI00203	Metals ICP TCLP TAL	Cadmium	7440-43-9	12.5	5.0	50.0
Superfund, US EPA Region 5	Eagle Zinc	10CE30	TechLaw - ESAT Contract	R-J-HA1-12	E100806-08	TCLP EXTRACT	Soil	EI00203	Metals ICP TCLP TAL	Copper	7440-50-8	U	50.0	250
Superfund, US EPA Region 5	Eagle Zinc	10CE30	TechLaw - ESAT Contract	R-J-HA1-12	E100806-08	TCLP EXTRACT	Soil	EI00203	Metals ICP TCLP TAL	Lead	7439-92-1	357	30.0	100
Superfund, US EPA Region 5	Eagle Zinc	10CE30	TechLaw - ESAT Contract	R-J-HA1-12	E100806-08	TCLP EXTRACT	Soil	EI00203	Metals ICP TCLP TAL	Manganese	7439-96-5	1480	10.0	150
Superfund, US EPA Region 5	Eagle Zinc	10CE30	TechLaw - ESAT Contract	R-J-HA1-12	E100806-08	TCLP EXTRACT	Soil	EI00203	Metals ICP TCLP TAL	Zinc	7440-66-6	1450000	400	6000
Superfund, US EPA Region 5	Eagle Zinc	10CE30	TechLaw - ESAT Contract	R-J-HA1-12	E100806-08	TCLP EXTRACT	Soil	EI00203	Metals ICP TCLP TAL	Arsenic	7440-38-2	U	80.0	200
Superfund, US EPA Region 5	Eagle Zinc	10CE30	TechLaw - ESAT Contract	R-J-HA1-12	E100806-08	TCLP EXTRACT	Soil	EI00203	Metals ICP TCLP TAL	Cadmium	7440-43-9	779	5.0	50.0
Superfund, US EPA Region 5	Eagle Zinc	10CE30	TechLaw - ESAT Contract	R-K-HA3-19	E100806-09	TCLP EXTRACT	Soil	EI00202	Metals ICP TCLP TAL	Copper	7440-50-8	U	50.0	250
Superfund, US EPA Region 5	Eagle Zinc	10CE30	TechLaw - ESAT Contract	R-K-HA3-19	E100806-09	TCLP EXTRACT	Soil	EI00202	Metals ICP TCLP TAL	Lead	7439-92-1	71.4	30.0	100
Superfund, US EPA Region 5	Eagle Zinc	10CE30	TechLaw - ESAT Contract	R-K-HA3-19	E100806-09	TCLP EXTRACT	Soil	EI00202	Metals ICP TCLP TAL	Manganese	7439-96-5	356	10.0	150

Superfund, US EPA Region 5	Eagle Zinc	10CE30	TechLaw - ESAT Contract	R-K-HA3-19	E100806-09	TCLP EXTRACT	Soil	EI00202	Metals ICP TCLP TAL	Zinc	7440-66-6	83500	40.0	600
Superfund, US EPA Region 5	Eagle Zinc	10CE30	TechLaw - ESAT Contract	R-K-HA3-19	E100806-09	TCLP EXTRACT	Soil	EI00202	Metals ICP TCLP TAL	Arsenic	7440-38-2	U	80.0	200
Superfund, US EPA Region 5	Eagle Zinc	10CE30	TechLaw - ESAT Contract	R-K-HA3-19	E100806-09	TCLP EXTRACT	Soil	EI00202	Metals ICP TCLP TAL	Cadmium	7440-43-9	227	5.0	50.0
Superfund, US EPA Region 5	Eagle Zinc	10CE30	TechLaw - ESAT Contract	R-L1-HA3-21	E100806-10	TCLP EXTRACT	Soil	EI00202	Metals ICP TCLP TAL	Copper	7440-50-8	61.3	50.0	250
Superfund, US EPA Region 5	Eagle Zinc	10CE30	TechLaw - ESAT Contract	R-L1-HA3-21	E100806-10	TCLP EXTRACT	Soil	EI00202	Metals ICP TCLP TAL	Lead	7439-92-1	179	30.0	100
Superfund, US EPA Region 5	Eagle Zinc	10CE30	TechLaw - ESAT Contract	R-L1-HA3-21	E100806-10	TCLP EXTRACT	Soil	EI00202	Metals ICP TCLP TAL	Manganese	7439-96-5	166	10.0	150
Superfund, US EPA Region 5	Eagle Zinc	10CE30	TechLaw - ESAT Contract	R-L1-HA3-21	E100806-10	TCLP EXTRACT	Soil	EI00202	Metals ICP TCLP TAL	Zinc	7440-66-6	16500	40.0	600
Superfund, US EPA Region 5	Eagle Zinc	10CE30	TechLaw - ESAT Contract	R-L1-HA3-21	E100806-10	TCLP EXTRACT	Soil	EI00202	Metals ICP TCLP TAL	Arsenic	7440-38-2	U	80.0	200
Superfund, US EPA Region 5	Eagle Zinc	10CE30	TechLaw - ESAT Contract	R-L1-HA3-21	E100806-10	TCLP EXTRACT	Soil	EI00202	Metals ICP TCLP TAL	Cadmium	7440-43-9	34.3	5.0	50.0
Superfund, US EPA Region 5	Eagle Zinc	10CE30	TechLaw - ESAT Contract	R-C-HA1-01	E100806-11	TCLP EXTRACT	Soil	EI00203	Metals ICP TCLP TAL	Copper	7440-50-8	U	50.0	250
Superfund, US EPA Region 5	Eagle Zinc	10CE30	TechLaw - ESAT Contract	R-C-HA1-01	E100806-11	TCLP EXTRACT	Soil	EI00203	Metals ICP TCLP TAL	Lead	7439-92-1	1300	30.0	100
Superfund, US EPA Region 5	Eagle Zinc	10CE30	TechLaw - ESAT Contract	R-C-HA1-01	E100806-11	TCLP EXTRACT	Soil	EI00203	Metals ICP TCLP TAL	Manganese	7439-96-5	82.2	10.0	150
Superfund, US EPA Region 5	Eagle Zinc	10CE30	TechLaw - ESAT Contract	R-C-HA1-01	E100806-11	TCLP EXTRACT	Soil	EI00203	Metals ICP TCLP TAL	Zinc	7440-66-6	2780000	400	6000
Superfund, US EPA Region 5	Eagle Zinc	10CE30	TechLaw - ESAT Contract	R-C-HA1-01	E100806-11	TCLP EXTRACT	Soil	EI00203	Metals ICP TCLP TAL	Arsenic	7440-38-2	U	80.0	200
Superfund, US EPA Region 5	Eagle Zinc	10CE30	TechLaw - ESAT Contract	R-C-HA1-01	E100806-11	TCLP EXTRACT	Soil	EI00203	Metals ICP TCLP TAL	Cadmium	7440-43-9	2590	5.0	50.0
Superfund, US EPA Region 5	Eagle Zinc	10CE30	TechLaw - ESAT Contract	R-C-HA1-02	E100806-12	TCLP EXTRACT	Soil	EI00203	Metals ICP TCLP TAL	Copper	7440-50-8	U	50.0	250
Superfund, US EPA Region 5	Eagle Zinc	10CE30	TechLaw - ESAT Contract	R-C-HA1-02	E100806-12	TCLP EXTRACT	Soil	EI00203	Metals ICP TCLP TAL	Lead	7439-92-1	28900	30.0	100
Superfund, US EPA Region 5	Eagle Zinc	10CE30	TechLaw - ESAT Contract	R-C-HA1-02	E100806-12	TCLP EXTRACT	Soil	EI00203	Metals ICP TCLP TAL	Manganese	7439-96-5	434	10.0	150
Superfund, US EPA Region 5	Eagle Zinc	10CE30	TechLaw - ESAT Contract	R-C-HA1-02	E100806-12	TCLP EXTRACT	Soil	EI00203	Metals ICP TCLP TAL	Zinc	7440-66-6	2450000	400	6000
Superfund, US EPA Region 5	Eagle Zinc	10CE30	TechLaw - ESAT Contract	R-C-HA1-02	E100806-12	TCLP EXTRACT	Soil	EI00203	Metals ICP TCLP TAL	Arsenic	7440-38-2	U	80.0	200
Superfund, US EPA Region 5	Eagle Zinc	10CE30	TechLaw - ESAT Contract	R-C-HA1-02	E100806-12	TCLP EXTRACT	Soil	EI00203	Metals ICP TCLP TAL	Cadmium	7440-43-9	40.3	5.0	50.0
Superfund, US EPA Region 5	Eagle Zinc	10CE30	TechLaw - ESAT Contract	R-D1-HA2-03	E100806-13	TCLP EXTRACT	Soil	EI00203	Metals ICP TCLP TAL	Copper	7440-50-8	185	50.0	250
Superfund, US EPA Region 5	Eagle Zinc	10CE30	TechLaw - ESAT Contract	R-D1-HA2-03	E100806-13	TCLP EXTRACT	Soil	EI00203	Metals ICP TCLP TAL	Lead	7439-92-1	3240	30.0	100
Superfund, US EPA Region 5	Eagle Zinc	10CE30	TechLaw - ESAT Contract	R-D1-HA2-03	E100806-13	TCLP EXTRACT	Soil	EI00203	Metals ICP TCLP TAL	Manganese	7439-96-5	73.9	10.0	150
Superfund, US EPA Region 5	Eagle Zinc	10CE30	TechLaw - ESAT Contract	R-D1-HA2-03	E100806-13	TCLP EXTRACT	Soil	EI00203	Metals ICP TCLP TAL	Zinc	7440-66-6	3230000	400	6000
Superfund, US EPA Region 5	Eagle Zinc	10CE30	TechLaw - ESAT Contract	R-D1-HA2-03	E100806-13	TCLP EXTRACT	Soil	EI00203	Metals ICP TCLP TAL	Arsenic	7440-38-2	U	80.0	200
Superfund, US EPA Region 5	Eagle Zinc	10CE30	TechLaw - ESAT Contract	R-D1-HA2-03	E100806-13	TCLP EXTRACT	Soil	EI00203	Metals ICP TCLP TAL	Cadmium	7440-43-9	916	5.0	50.0
Superfund, US EPA Region 5	Eagle Zinc	10CE30	TechLaw - ESAT Contract	R-D1-HA2-04	E100806-14	TCLP EXTRACT	Soil	EI00203	Metals ICP TCLP TAL	Copper	7440-50-8	U	50.0	250
Superfund, US EPA Region 5	Eagle Zinc	10CE30	TechLaw - ESAT Contract	R-D1-HA2-04	E100806-14	TCLP EXTRACT	Soil	EI00203	Metals ICP TCLP TAL	Lead	7439-92-1	3950	30.0	100
Superfund, US EPA Region 5	Eagle Zinc	10CE30	TechLaw - ESAT Contract	R-D1-HA2-04	E100806-14	TCLP EXTRACT	Soil	EI00203	Metals ICP TCLP TAL	Manganese	7439-96-5	17.3	10.0	150
Superfund, US EPA Region 5	Eagle Zinc	10CE30	TechLaw - ESAT Contract	R-D1-HA2-04	E100806-14	TCLP EXTRACT	Soil	EI00203	Metals ICP TCLP TAL	Zinc	7440-66-6	3090000	400	6000
Superfund, US EPA Region 5	Eagle Zinc	10CE30	TechLaw - ESAT Contract	R-D1-HA2-04	E100806-14	TCLP EXTRACT	Soil	EI00203	Metals ICP TCLP TAL	Arsenic	7440-38-2	U	80.0	200
Superfund, US EPA Region 5	Eagle Zinc	10CE30	TechLaw - ESAT Contract	R-D1-HA2-04	E100806-14	TCLP EXTRACT	Soil	EI00203	Metals ICP TCLP TAL	Cadmium	7440-43-9	154	5.0	50.0
Superfund, US EPA Region 5	Eagle Zinc	10CE30	TechLaw - ESAT Contract	R-D1-HA2-05	E100806-15	TCLP EXTRACT	Soil	EI00203	Metals ICP TCLP TAL	Copper	7440-50-8	607	50.0	250
Superfund, US EPA Region 5	Eagle Zinc	10CE30	TechLaw - ESAT Contract	R-D1-HA2-05	E100806-15	TCLP EXTRACT	Soil	EI00203	Metals ICP TCLP TAL	Lead	7439-92-1	6000	30.0	100
Superfund, US EPA Region 5	Eagle Zinc	10CE30	TechLaw - ESAT Contract	R-D1-HA2-05	E100806-15	TCLP EXTRACT	Soil	EI00203	Metals ICP TCLP TAL	Manganese	7439-96-5	923	10.0	150
Superfund, US EPA Region 5	Eagle Zinc	10CE30	TechLaw - ESAT Contract	R-D1-HA2-05	E100806-15	TCLP EXTRACT	Soil	EI00203	Metals ICP TCLP TAL	Zinc	7440-66-6	4180000	400	6000
Superfund, US EPA Region 5	Eagle Zinc	10CE30	TechLaw - ESAT Contract	R-D1-HA2-05	E100806-15	TCLP EXTRACT	Soil	EI00203	Metals ICP TCLP TAL	Arsenic	7440-38-2	U	80.0	200
Superfund, US EPA Region 5	Eagle Zinc	10CE30	TechLaw - ESAT Contract	R-D1-HA2-05	E100806-15	TCLP EXTRACT	Soil	EI00203	Metals ICP TCLP TAL	Cadmium	7440-43-9	3470	5.0	50.0
Superfund, US EPA Region 5	Eagle Zinc	10CE30	TechLaw - ESAT Contract	R-D1-HA2-06	E100806-16	TCLP EXTRACT	Soil	EI00202	Metals ICP TCLP TAL	Copper	7440-50-8	240	50.0	250
Superfund, US EPA Region 5	Eagle Zinc	10CE30	TechLaw - ESAT Contract	R-D1-HA2-06	E100806-16	TCLP EXTRACT	Soil	EI00202	Metals ICP TCLP TAL	Lead	7439-92-1	22700	30.0	100
Superfund, US EPA Region 5	Eagle Zinc	10CE30	TechLaw - ESAT Contract	R-D1-HA2-06	E100806-16	TCLP EXTRACT	Soil	EI00202	Metals ICP TCLP TAL	Manganese	7439-96-5	521	10.0	150
Superfund, US EPA Region 5	Eagle Zinc	10CE30	TechLaw - ESAT Contract	R-D1-HA2-06	E100806-16	TCLP EXTRACT	Soil	EI00202	Metals ICP TCLP TAL	Zinc	7440-66-6	1280000	400	6000
Superfund, US EPA Region 5	Eagle Zinc	10CE30	TechLaw - ESAT Contract	R-D1-HA2-06	E100806-16	TCLP EXTRACT	Soil	EI00202	Metals ICP TCLP TAL	Arsenic	7440-38-2	U	80.0	200
Superfund, US EPA Region 5	Eagle Zinc	10CE30	TechLaw - ESAT Contract	R-D1-HA2-06	E100806-16	TCLP EXTRACT	Soil	EI00202	Metals ICP TCLP TAL	Cadmium	7440-43-9	12800	5.0	50.0
Superfund, US EPA Region 5	Eagle Zinc	10CE30	TechLaw - ESAT Contract	R-D1-HA3-11	E100806-17	TCLP EXTRACT	Soil	EI00203	Metals ICP TCLP TAL	Copper	7440-50-8	79.7	50.0	250
Superfund, US EPA Region 5	Eagle Zinc	10CE30	TechLaw - ESAT Contract	R-D1-HA3-11	E100806-17	TCLP EXTRACT	Soil	EI00203	Metals ICP TCLP TAL	Lead	7439-92-1	1130	30.0	100
Superfund, US EPA Region 5	Eagle Zinc	10CE30	TechLaw - ESAT Contract	R-D1-HA3-11	E100806-17	TCLP EXTRACT	Soil	EI00203	Metals ICP TCLP TAL	Manganese	7439-96-5	599	10.0	150
Superfund, US EPA Region 5	Eagle Zinc	10CE30	TechLaw - ESAT Contract	R-D1-HA3-11	E100806-17	TCLP EXTRACT	Soil	EI00203	Metals ICP TCLP TAL	Zinc	7440-66-6	485000	40.0	600
Superfund, US EPA Region 5	Eagle Zinc	10CE30	TechLaw - ESAT Contract	R-D1-HA3-11	E100806-17	TCLP EXTRACT	Soil	EI00203	Metals ICP TCLP TAL	Arsenic	7440-38-2	U	80.0	200
Superfund, US EPA Region 5	Eagle Zinc	10CE30	TechLaw - ESAT Contract	R-D1-HA3-11	E100806-17	TCLP EXTRACT	Soil	EI00203	Metals ICP TCLP TAL	Cadmium	7440-43-9	218	5.0	50.0
Superfund, US EPA Region 5	Eagle Zinc	10CE30	TechLaw - ESAT Contract	R-I-HA1-15	E100806-18	TCLP EXTRACT	Soil	EI00203	Metals ICP TCLP TAL	Copper	7440-50-8	U	50.0	250

Superfund, US EPA Region 5	Eagle Zinc	10CE30	TechLaw - ESAT Contract	R-I-HA1-15	E100806-18	TCLP EXTRACT	Soil	EI00203	Metals ICP TCLP TAL	Lead	7439-92-1	867	30.0	100
Superfund, US EPA Region 5	Eagle Zinc	10CE30	TechLaw - ESAT Contract	R-I-HA1-15	E100806-18	TCLP EXTRACT	Soil	EI00203	Metals ICP TCLP TAL	Manganese	7439-96-5	693	10.0	150
Superfund, US EPA Region 5	Eagle Zinc	10CE30	TechLaw - ESAT Contract	R-I-HA1-15	E100806-18	TCLP EXTRACT	Soil	EI00203	Metals ICP TCLP TAL	Zinc	7440-66-6	3470000	400	6000
Superfund, US EPA Region 5	Eagle Zinc	10CE30	TechLaw - ESAT Contract	R-I-HA1-15	E100806-18	TCLP EXTRACT	Soil	EI00203	Metals ICP TCLP TAL	Arsenic	7440-38-2	U	80.0	200
Superfund, US EPA Region 5	Eagle Zinc	10CE30	TechLaw - ESAT Contract	R-I-HA1-15	E100806-18	TCLP EXTRACT	Soil	EI00203	Metals ICP TCLP TAL	Cadmium	7440-43-9	530	5.0	50.0
Superfund, US EPA Region 5	Eagle Zinc	10CE30	TechLaw - ESAT Contract	R-J-HA4-13	E100806-19	TCLP EXTRACT	Soil	EI00202	Metals ICP TCLP TAL	Copper	7440-50-8	225	50.0	250
Superfund, US EPA Region 5	Eagle Zinc	10CE30	TechLaw - ESAT Contract	R-J-HA4-13	E100806-19	TCLP EXTRACT	Soil	EI00202	Metals ICP TCLP TAL	Lead	7439-92-1	88.9	30.0	100
Superfund, US EPA Region 5	Eagle Zinc	10CE30	TechLaw - ESAT Contract	R-J-HA4-13	E100806-19	TCLP EXTRACT	Soil	EI00202	Metals ICP TCLP TAL	Manganese	7439-96-5	855	10.0	150
Superfund, US EPA Region 5	Eagle Zinc	10CE30	TechLaw - ESAT Contract	R-J-HA4-13	E100806-19	TCLP EXTRACT	Soil	EI00202	Metals ICP TCLP TAL	Zinc	7440-66-6	378000	40.0	600
Superfund, US EPA Region 5	Eagle Zinc	10CE30	TechLaw - ESAT Contract	R-J-HA4-13	E100806-19	TCLP EXTRACT	Soil	EI00202	Metals ICP TCLP TAL	Arsenic	7440-38-2	U	80.0	200
Superfund, US EPA Region 5	Eagle Zinc	10CE30	TechLaw - ESAT Contract	R-J-HA4-13	E100806-19	TCLP EXTRACT	Soil	EI00202	Metals ICP TCLP TAL	Cadmium	7440-43-9	123	5.0	50.0
Superfund, US EPA Region 5	Eagle Zinc	10CE30	TechLaw - ESAT Contract	R-J-HA4-14	E100806-20	TCLP EXTRACT	Soil	EI00203	Metals ICP TCLP TAL	Copper	7440-50-8	U	50.0	250
Superfund, US EPA Region 5	Eagle Zinc	10CE30	TechLaw - ESAT Contract	R-J-HA4-14	E100806-20	TCLP EXTRACT	Soil	EI00203	Metals ICP TCLP TAL	Lead	7439-92-1	118	30.0	100
Superfund, US EPA Region 5	Eagle Zinc	10CE30	TechLaw - ESAT Contract	R-J-HA4-14	E100806-20	TCLP EXTRACT	Soil	EI00203	Metals ICP TCLP TAL	Manganese	7439-96-5	1390	10.0	150
Superfund, US EPA Region 5	Eagle Zinc	10CE30	TechLaw - ESAT Contract	R-J-HA4-14	E100806-20	TCLP EXTRACT	Soil	EI00203	Metals ICP TCLP TAL	Zinc	7440-66-6	387000	40.0	600
Superfund, US EPA Region 5	Eagle Zinc	10CE30	TechLaw - ESAT Contract	R-J-HA4-14	E100806-20	TCLP EXTRACT	Soil	EI00203	Metals ICP TCLP TAL	Arsenic	7440-38-2	U	80.0	200
Superfund, US EPA Region 5	Eagle Zinc	10CE30	TechLaw - ESAT Contract	R-J-HA4-14	E100806-20	TCLP EXTRACT	Soil	EI00203	Metals ICP TCLP TAL	Cadmium	7440-43-9	725	5.0	50.0
Superfund, US EPA Region 5	Eagle Zinc	10CE30	TechLaw - ESAT Contract	RD-L1-HA3-20	E100806-21	TCLP EXTRACT	Soil	EI00202	Metals ICP TCLP TAL	Copper	7440-50-8	76.1	50.0	250
Superfund, US EPA Region 5	Eagle Zinc	10CE30	TechLaw - ESAT Contract	RD-L1-HA3-20	E100806-21	TCLP EXTRACT	Soil	EI00202	Metals ICP TCLP TAL	Lead	7439-92-1	3720	30.0	100
Superfund, US EPA Region 5	Eagle Zinc	10CE30	TechLaw - ESAT Contract	RD-L1-HA3-20	E100806-21	TCLP EXTRACT	Soil	EI00202	Metals ICP TCLP TAL	Manganese	7439-96-5	554	10.0	150
Superfund, US EPA Region 5	Eagle Zinc	10CE30	TechLaw - ESAT Contract	RD-L1-HA3-20	E100806-21	TCLP EXTRACT	Soil	EI00202	Metals ICP TCLP TAL	Zinc	7440-66-6	55700	40.0	600
Superfund, US EPA Region 5	Eagle Zinc	10CE30	TechLaw - ESAT Contract	RD-L1-HA3-20	E100806-21	TCLP EXTRACT	Soil	EI00202	Metals ICP TCLP TAL	Arsenic	7440-38-2	U	80.0	200
Superfund, US EPA Region 5	Eagle Zinc	10CE30	TechLaw - ESAT Contract	RD-L1-HA3-20	E100806-21	TCLP EXTRACT	Soil	EI00202	Metals ICP TCLP TAL	Cadmium	7440-43-9	91.5	5.0	50.0
Superfund, US EPA Region 5	Eagle Zinc	10CE30	TechLaw - ESAT Contract	R-M-HA3-22	E100806-22	TCLP EXTRACT	Soil	EI00202	Metals ICP TCLP TAL	Copper	7440-50-8	104	50.0	250
Superfund, US EPA Region 5	Eagle Zinc	10CE30	TechLaw - ESAT Contract	R-M-HA3-22	E100806-22	TCLP EXTRACT	Soil	EI00202	Metals ICP TCLP TAL	Lead	7439-92-1	304	30.0	100
Superfund, US EPA Region 5	Eagle Zinc	10CE30	TechLaw - ESAT Contract	R-M-HA3-22	E100806-22	TCLP EXTRACT	Soil	EI00202	Metals ICP TCLP TAL	Manganese	7439-96-5	530	10.0	150
Superfund, US EPA Region 5	Eagle Zinc	10CE30	TechLaw - ESAT Contract	R-M-HA3-22	E100806-22	TCLP EXTRACT	Soil	EI00202	Metals ICP TCLP TAL	Zinc	7440-66-6	45400	40.0	600
Superfund, US EPA Region 5	Eagle Zinc	10CE30	TechLaw - ESAT Contract	R-M-HA3-22	E100806-22	TCLP EXTRACT	Soil	EI00202	Metals ICP TCLP TAL	Arsenic	7440-38-2	U	80.0	200
Superfund, US EPA Region 5	Eagle Zinc	10CE30	TechLaw - ESAT Contract	R-M-HA3-22	E100806-22	TCLP EXTRACT	Soil	EI00202	Metals ICP TCLP TAL	Cadmium	7440-43-9	52.0	5.0	50.0
Superfund, US EPA Region 5	Eagle Zinc	10CE30	TechLaw - ESAT Contract	R-A-HA4-18	E100806-23	TCLP EXTRACT	Soil	EI00203	Metals ICP TCLP TAL	Copper	7440-50-8	102	50.0	250
Superfund, US EPA Region 5	Eagle Zinc	10CE30	TechLaw - ESAT Contract	R-A-HA4-18	E100806-23	TCLP EXTRACT	Soil	EI00203	Metals ICP TCLP TAL	Lead	7439-92-1	1060	30.0	100
Superfund, US EPA Region 5	Eagle Zinc	10CE30	TechLaw - ESAT Contract	R-A-HA4-18	E100806-23	TCLP EXTRACT	Soil	EI00203	Metals ICP TCLP TAL	Manganese	7439-96-5	1340	10.0	150
Superfund, US EPA Region 5	Eagle Zinc	10CE30	TechLaw - ESAT Contract	R-A-HA4-18	E100806-23	TCLP EXTRACT	Soil	EI00203	Metals ICP TCLP TAL	Zinc	7440-66-6	207000	40.0	600
Superfund, US EPA Region 5	Eagle Zinc	10CE30	TechLaw - ESAT Contract	R-A-HA4-18	E100806-23	TCLP EXTRACT	Soil	EI00203	Metals ICP TCLP TAL	Arsenic	7440-38-2	U	80.0	200
Superfund, US EPA Region 5	Eagle Zinc	10CE30	TechLaw - ESAT Contract	R-A-HA4-18	E100806-23	TCLP EXTRACT	Soil	EI00203	Metals ICP TCLP TAL	Cadmium	7440-43-9	284	5.0	50.0
Superfund, US EPA Region 5	Eagle Zinc	10CE30	TechLaw - ESAT Contract	R-B-HA4-19	E100806-24	TCLP EXTRACT	Soil	EI00203	Metals ICP TCLP TAL	Copper	7440-50-8	151	50.0	250
Superfund, US EPA Region 5	Eagle Zinc	10CE30	TechLaw - ESAT Contract	R-B-HA4-19	E100806-24	TCLP EXTRACT	Soil	EI00203	Metals ICP TCLP TAL	Lead	7439-92-1	195	30.0	100
Superfund, US EPA Region 5	Eagle Zinc	10CE30	TechLaw - ESAT Contract	R-B-HA4-19	E100806-24	TCLP EXTRACT	Soil	EI00203	Metals ICP TCLP TAL	Manganese	7439-96-5	1660	10.0	150
Superfund, US EPA Region 5	Eagle Zinc	10CE30	TechLaw - ESAT Contract	R-B-HA4-19	E100806-24	TCLP EXTRACT	Soil	EI00203	Metals ICP TCLP TAL	Zinc	7440-66-6	386000	40.0	600
Superfund, US EPA Region 5	Eagle Zinc	10CE30	TechLaw - ESAT Contract	R-B-HA4-19	E100806-24	TCLP EXTRACT	Soil	EI00203	Metals ICP TCLP TAL	Arsenic	7440-38-2	U	80.0	200
Superfund, US EPA Region 5	Eagle Zinc	10CE30	TechLaw - ESAT Contract	R-B-HA4-19	E100806-24	TCLP EXTRACT	Soil	EI00203	Metals ICP TCLP TAL	Cadmium	7440-43-9	67.3	5.0	50.0
Superfund, US EPA Region 5	Eagle Zinc	10CE30	TechLaw - ESAT Contract	R-C-HA2-01	E100806-25	TCLP EXTRACT	Soil	EI00203	Metals ICP TCLP TAL	Copper	7440-50-8	92.1	50.0	250
Superfund, US EPA Region 5	Eagle Zinc	10CE30	TechLaw - ESAT Contract	R-C-HA2-01	E100806-25	TCLP EXTRACT	Soil	EI00203	Metals ICP TCLP TAL	Lead	7439-92-1	111	30.0	100
Superfund, US EPA Region 5	Eagle Zinc	10CE30	TechLaw - ESAT Contract	R-C-HA2-01	E100806-25	TCLP EXTRACT	Soil	EI00203	Metals ICP TCLP TAL	Manganese	7439-96-5	2190	10.0	150
Superfund, US EPA Region 5	Eagle Zinc	10CE30	TechLaw - ESAT Contract	R-C-HA2-01	E100806-25	TCLP EXTRACT	Soil	EI00203	Metals ICP TCLP TAL	Zinc	7440-66-6	296000	40.0	600
Superfund, US EPA Region 5	Eagle Zinc	10CE30	TechLaw - ESAT Contract	R-C-HA2-01	E100806-25	TCLP EXTRACT	Soil	EI00203	Metals ICP TCLP TAL	Arsenic	7440-38-2	U	80.0	200
Superfund, US EPA Region 5	Eagle Zinc	10CE30	TechLaw - ESAT Contract	R-C-HA2-01	E100806-25	TCLP EXTRACT	Soil	EI00203	Metals ICP TCLP TAL	Cadmium	7440-43-9	23.3	5.0	50.0
Superfund, US EPA Region 5	Eagle Zinc	10CE30	TechLaw - ESAT Contract	R-D1-HA4-21	E100806-26	TCLP EXTRACT	Soil	EI00203	Metals ICP TCLP TAL	Copper	7440-50-8	U	50.0	250
Superfund, US EPA Region 5	Eagle Zinc	10CE30	TechLaw - ESAT Contract	R-D1-HA4-21	E100806-26	TCLP EXTRACT	Soil	EI00203	Metals ICP TCLP TAL	Lead	7439-92-1	161	30.0	100
Superfund, US EPA Region 5	Eagle Zinc	10CE30	TechLaw - ESAT Contract	R-D1-HA4-21	E100806-26	TCLP EXTRACT	Soil	EI00203	Metals ICP TCLP TAL	Manganese	7439-96-5	2720	10.0	150
Superfund, US EPA Region 5	Eagle Zinc	10CE30	TechLaw - ESAT Contract	R-D1-HA4-21	E100806-26	TCLP EXTRACT	Soil	EI00203	Metals ICP TCLP TAL	Zinc	7440-66-6	239000	40.0	600
Superfund, US EPA Region 5	Eagle Zinc	10CE30	TechLaw - ESAT Contract	R-D1-HA4-21	E100806-26	TCLP EXTRACT	Soil	EI00203	Metals ICP TCLP TAL	Arsenic	7440-38-2	U	80.0	200

Superfund, US EPA Region 5	Eagle Zinc	10CE30	TechLaw - ESAT Contract	R-D1-HA4-21	E100806-26	TCLP EXTRACT	Soil	EI00203	Metals ICP TCLP TAL	Cadmium	7440-43-9	2350	5.0	50.0
Superfund, US EPA Region 5	Eagle Zinc	10CE30	TechLaw - ESAT Contract	RD-D1-HA4-20	E100806-27	TCLP EXTRACT	Soil	EI00203	Metals ICP TCLP TAL	Copper	7440-50-8	72.6	50.0	250
Superfund, US EPA Region 5	Eagle Zinc	10CE30	TechLaw - ESAT Contract	RD-D1-HA4-20	E100806-27	TCLP EXTRACT	Soil	EI00203	Metals ICP TCLP TAL	Lead	7439-92-1	191	30.0	100
Superfund, US EPA Region 5	Eagle Zinc	10CE30	TechLaw - ESAT Contract	RD-D1-HA4-20	E100806-27	TCLP EXTRACT	Soil	EI00203	Metals ICP TCLP TAL	Manganese	7439-96-5	3070	10.0	150
Superfund, US EPA Region 5	Eagle Zinc	10CE30	TechLaw - ESAT Contract	RD-D1-HA4-20	E100806-27	TCLP EXTRACT	Soil	EI00203	Metals ICP TCLP TAL	Zinc	7440-66-6	395000	40.0	600
Superfund, US EPA Region 5	Eagle Zinc	10CE30	TechLaw - ESAT Contract	RD-D1-HA4-20	E100806-27	TCLP EXTRACT	Soil	EI00203	Metals ICP TCLP TAL	Arsenic	7440-38-2	U	80.0	200
Superfund, US EPA Region 5	Eagle Zinc	10CE30	TechLaw - ESAT Contract	RD-D1-HA4-20	E100806-27	TCLP EXTRACT	Soil	EI00203	Metals ICP TCLP TAL	Cadmium	7440-43-9	4720	5.0	50.0
Superfund, US EPA Region 5	Eagle Zinc	10CE30	TechLaw - ESAT Contract	R-G-HA4-22	E100806-28	TCLP EXTRACT	Soil	EI00203	Metals ICP TCLP TAL	Copper	7440-50-8	70.3	50.0	250
Superfund, US EPA Region 5	Eagle Zinc	10CE30	TechLaw - ESAT Contract	R-G-HA4-22	E100806-28	TCLP EXTRACT	Soil	EI00203	Metals ICP TCLP TAL	Lead	7439-92-1	163	30.0	100
Superfund, US EPA Region 5	Eagle Zinc	10CE30	TechLaw - ESAT Contract	R-G-HA4-22	E100806-28	TCLP EXTRACT	Soil	EI00203	Metals ICP TCLP TAL	Manganese	7439-96-5	2160	10.0	150
Superfund, US EPA Region 5	Eagle Zinc	10CE30	TechLaw - ESAT Contract	R-G-HA4-22	E100806-28	TCLP EXTRACT	Soil	EI00203	Metals ICP TCLP TAL	Zinc	7440-66-6	2490000	400	6000
Superfund, US EPA Region 5	Eagle Zinc	10CE30	TechLaw - ESAT Contract	R-G-HA4-22	E100806-28	TCLP EXTRACT	Soil	EI00203	Metals ICP TCLP TAL	Arsenic	7440-38-2	U	80.0	200
Superfund, US EPA Region 5	Eagle Zinc	10CE30	TechLaw - ESAT Contract	R-G-HA4-22	E100806-28	TCLP EXTRACT	Soil	EI00203	Metals ICP TCLP TAL	Cadmium	7440-43-9	2170	5.0	50.0
Superfund, US EPA Region 5	Eagle Zinc	10CE30	TechLaw - ESAT Contract	R-M-HA3-24	E100806-29	TCLP EXTRACT	Soil	EI00202	Metals ICP TCLP TAL	Copper	7440-50-8	81.7	50.0	250
Superfund, US EPA Region 5	Eagle Zinc	10CE30	TechLaw - ESAT Contract	R-M-HA3-24	E100806-29	TCLP EXTRACT	Soil	EI00202	Metals ICP TCLP TAL	Lead	7439-92-1	510	30.0	100
Superfund, US EPA Region 5	Eagle Zinc	10CE30	TechLaw - ESAT Contract	R-M-HA3-24	E100806-29	TCLP EXTRACT	Soil	EI00202	Metals ICP TCLP TAL	Manganese	7439-96-5	420	10.0	150
Superfund, US EPA Region 5	Eagle Zinc	10CE30	TechLaw - ESAT Contract	R-M-HA3-24	E100806-29	TCLP EXTRACT	Soil	EI00202	Metals ICP TCLP TAL	Zinc	7440-66-6	18500	40.0	600
Superfund, US EPA Region 5	Eagle Zinc	10CE30	TechLaw - ESAT Contract	R-M-HA3-24	E100806-29	TCLP EXTRACT	Soil	EI00202	Metals ICP TCLP TAL	Arsenic	7440-38-2	U	80.0	200
Superfund, US EPA Region 5	Eagle Zinc	10CE30	TechLaw - ESAT Contract	R-M-HA3-24	E100806-29	TCLP EXTRACT	Soil	EI00202	Metals ICP TCLP TAL	Cadmium	7440-43-9	36.0	5.0	50.0
Superfund, US EPA Region 5	Eagle Zinc	10CE30	TechLaw - ESAT Contract	R-M-HA4-23	E100806-30	TCLP EXTRACT	Soil	EI00203	Metals ICP TCLP TAL	Copper	7440-50-8	U	50.0	250
Superfund, US EPA Region 5	Eagle Zinc	10CE30	TechLaw - ESAT Contract	R-M-HA4-23	E100806-30	TCLP EXTRACT	Soil	EI00203	Metals ICP TCLP TAL	Lead	7439-92-1	105	30.0	100
Superfund, US EPA Region 5	Eagle Zinc	10CE30	TechLaw - ESAT Contract	R-M-HA4-23	E100806-30	TCLP EXTRACT	Soil	EI00203	Metals ICP TCLP TAL	Manganese	7439-96-5	2420	10.0	150
Superfund, US EPA Region 5	Eagle Zinc	10CE30	TechLaw - ESAT Contract	R-M-HA4-23	E100806-30	TCLP EXTRACT	Soil	EI00203	Metals ICP TCLP TAL	Zinc	7440-66-6	38500	40.0	600
Superfund, US EPA Region 5	Eagle Zinc	10CE30	TechLaw - ESAT Contract	R-M-HA4-23	E100806-30	TCLP EXTRACT	Soil	EI00203	Metals ICP TCLP TAL	Arsenic	7440-38-2	U	80.0	200
Superfund, US EPA Region 5	Eagle Zinc	10CE30	TechLaw - ESAT Contract	R-M-HA4-23	E100806-30	TCLP EXTRACT	Soil	EI00203	Metals ICP TCLP TAL	Cadmium	7440-43-9	32.2	5.0	50.0
Superfund, US EPA Region 5	Eagle Zinc	10CE30	TechLaw - ESAT Contract	R-N-HA2-02	E100806-31	TCLP EXTRACT	Soil	EI00203	Metals ICP TCLP TAL	Copper	7440-50-8	U	50.0	250
Superfund, US EPA Region 5	Eagle Zinc	10CE30	TechLaw - ESAT Contract	R-N-HA2-02	E100806-31	TCLP EXTRACT	Soil	EI00203	Metals ICP TCLP TAL	Lead	7439-92-1	116	30.0	100
Superfund, US EPA Region 5	Eagle Zinc	10CE30	TechLaw - ESAT Contract	R-N-HA2-02	E100806-31	TCLP EXTRACT	Soil	EI00203	Metals ICP TCLP TAL	Manganese	7439-96-5	1580	10.0	150
Superfund, US EPA Region 5	Eagle Zinc	10CE30	TechLaw - ESAT Contract	R-N-HA2-02	E100806-31	TCLP EXTRACT	Soil	EI00203	Metals ICP TCLP TAL	Zinc	7440-66-6	20200	40.0	600
Superfund, US EPA Region 5	Eagle Zinc	10CE30	TechLaw - ESAT Contract	R-N-HA2-02	E100806-31	TCLP EXTRACT	Soil	EI00203	Metals ICP TCLP TAL	Arsenic	7440-38-2	U	80.0	200
Superfund, US EPA Region 5	Eagle Zinc	10CE30	TechLaw - ESAT Contract	R-N-HA2-02	E100806-31	TCLP EXTRACT	Soil	EI00203	Metals ICP TCLP TAL	Cadmium	7440-43-9	10.8	5.0	50.0
Superfund, US EPA Region 5	Eagle Zinc	10CE30	TechLaw - ESAT Contract	R-P1-HA3-22	E100806-32	TCLP EXTRACT	Soil	EI00202	Metals ICP TCLP TAL	Copper	7440-50-8	U	50.0	250
Superfund, US EPA Region 5	Eagle Zinc	10CE30	TechLaw - ESAT Contract	R-P1-HA3-22	E100806-32	TCLP EXTRACT	Soil	EI00202	Metals ICP TCLP TAL	Lead	7439-92-1	58.5	30.0	100
Superfund, US EPA Region 5	Eagle Zinc	10CE30	TechLaw - ESAT Contract	R-P1-HA3-22	E100806-32	TCLP EXTRACT	Soil	EI00202	Metals ICP TCLP TAL	Manganese	7439-96-5	324	10.0	150
Superfund, US EPA Region 5	Eagle Zinc	10CE30	TechLaw - ESAT Contract	R-P1-HA3-22	E100806-32	TCLP EXTRACT	Soil	EI00202	Metals ICP TCLP TAL	Zinc	7440-66-6	13900	40.0	600
Superfund, US EPA Region 5	Eagle Zinc	10CE30	TechLaw - ESAT Contract	R-P1-HA3-22	E100806-32	TCLP EXTRACT	Soil	EI00202	Metals ICP TCLP TAL	Arsenic	7440-38-2	U	80.0	200
Superfund, US EPA Region 5	Eagle Zinc	10CE30	TechLaw - ESAT Contract	R-P1-HA3-22	E100806-32	TCLP EXTRACT	Soil	EI00202	Metals ICP TCLP TAL	Cadmium	7440-43-9	23.6	5.0	50.0
Superfund, US EPA Region 5	Eagle Zinc	10CE30	TechLaw - ESAT Contract	R-P1-HA3-23	E100806-33	TCLP EXTRACT	Soil	EI00202	Metals ICP TCLP TAL	Copper	7440-50-8	182	50.0	250
Superfund, US EPA Region 5	Eagle Zinc	10CE30	TechLaw - ESAT Contract	R-P1-HA3-23	E100806-33	TCLP EXTRACT	Soil	EI00202	Metals ICP TCLP TAL	Lead	7439-92-1	11900	30.0	100
Superfund, US EPA Region 5	Eagle Zinc	10CE30	TechLaw - ESAT Contract	R-P1-HA3-23	E100806-33	TCLP EXTRACT	Soil	EI00202	Metals ICP TCLP TAL	Manganese	7439-96-5	900	10.0	150
Superfund, US EPA Region 5	Eagle Zinc	10CE30	TechLaw - ESAT Contract	R-P1-HA3-23	E100806-33	TCLP EXTRACT	Soil	EI00202	Metals ICP TCLP TAL	Zinc	7440-66-6	15500	40.0	600
Superfund, US EPA Region 5	Eagle Zinc	10CE30	TechLaw - ESAT Contract	R-P1-HA3-23	E100806-33	TCLP EXTRACT	Soil	EI00202	Metals ICP TCLP TAL	Arsenic	7440-38-2	U	80.0	200
Superfund, US EPA Region 5	Eagle Zinc	10CE30	TechLaw - ESAT Contract	R-P1-HA3-23	E100806-33	TCLP EXTRACT	Soil	EI00202	Metals ICP TCLP TAL	Cadmium	7440-43-9	74.3	5.0	50.0
Superfund, US EPA Region 5	Eagle Zinc	10CE30	TechLaw - ESAT Contract	R-CS-HA1-16	E100806-34	TCLP EXTRACT	Soil	EI00202	Metals ICP TCLP TAL	Copper	7440-50-8	132	50.0	250
Superfund, US EPA Region 5	Eagle Zinc	10CE30	TechLaw - ESAT Contract	R-CS-HA1-16	E100806-34	TCLP EXTRACT	Soil	EI00202	Metals ICP TCLP TAL	Lead	7439-92-1	U	30.0	100
Superfund, US EPA Region 5	Eagle Zinc	10CE30	TechLaw - ESAT Contract	R-CS-HA1-16	E100806-34	TCLP EXTRACT	Soil	EI00202	Metals ICP TCLP TAL	Manganese	7439-96-5	3070	10.0	150
Superfund, US EPA Region 5	Eagle Zinc	10CE30	TechLaw - ESAT Contract	R-CS-HA1-16	E100806-34	TCLP EXTRACT	Soil	EI00202	Metals ICP TCLP TAL	Zinc	7440-66-6	397000	40.0	600
Superfund, US EPA Region 5	Eagle Zinc	10CE30	TechLaw - ESAT Contract	R-CS-HA1-16	E100806-34	TCLP EXTRACT	Soil	EI00202	Metals ICP TCLP TAL	Arsenic	7440-38-2	U	80.0	200
Superfund, US EPA Region 5	Eagle Zinc	10CE30	TechLaw - ESAT Contract	R-CS-HA1-16	E100806-34	TCLP EXTRACT	Soil	EI00202	Metals ICP TCLP TAL	Cadmium	7440-43-9	40.0	5.0	50.0

UNITS	RPToMDL	BASIS	DILUTION	SPIKELEVEL	RECOVERY	UPPERCL	LOWERCL	ANALYST	PSOLIDS	LNOTE	ANOTE	LATITUDE	LONGITUDE	sComment	SNOTE1	SNOTE2	SNOTE3	SNOTE4	SNOTE5	SNOTE6
ug/L	TRUE	Wet	1					PAL						10CE30-01						
ug/L	TRUE	Wet	1					PAL						10CE30-01						
ug/L	TRUE	Wet	1					PAL						10CE30-01						
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SNOTE7	SNOTE8	SNOTE9	SNOTE10	ANALYTEORDER
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SAMPDATA

CLIENT	PROJECT	PROJECTNUM	LabName	SAMPLENAME	LABSAMPID	MATRIX	RPTMATRIX	SAMPDATE	PREPDATE	ANADATE	BATCH
Superfund, US EPA Region 5	Eagle Zinc	10CE30	TechLaw - ESAT Contract	R-B-HA3-17	E100806-01	Soil	Soil	08/24/2010 16:15:00	09/02/2010 08:51:00	09/03/2010 11:53:30	EH03101
Superfund, US EPA Region 5	Eagle Zinc	10CE30	TechLaw - ESAT Contract	R-B-HA3-17	E100806-01	Soil	Soil	08/24/2010 16:15:00	09/02/2010 08:51:00	09/03/2010 11:53:30	EH03101
Superfund, US EPA Region 5	Eagle Zinc	10CE30	TechLaw - ESAT Contract	R-B-HA3-17	E100806-01	Soil	Soil	08/24/2010 16:15:00	09/02/2010 08:51:00	09/03/2010 11:53:30	EH03101
Superfund, US EPA Region 5	Eagle Zinc	10CE30	TechLaw - ESAT Contract	R-B-HA3-17	E100806-01	Soil	Soil	08/24/2010 16:15:00	09/02/2010 08:51:00	09/03/2010 11:53:30	EH03101
Superfund, US EPA Region 5	Eagle Zinc	10CE30	TechLaw - ESAT Contract	R-B-HA3-17	E100806-01	Soil	Soil	08/24/2010 16:15:00	09/02/2010 08:51:00	09/08/2010 10:22:38	EH03101
Superfund, US EPA Region 5	Eagle Zinc	10CE30	TechLaw - ESAT Contract	R-B-HA3-17	E100806-01	Soil	Soil	08/24/2010 16:15:00	09/02/2010 08:51:00	09/03/2010 11:53:30	EH03101
Superfund, US EPA Region 5	Eagle Zinc	10CE30	TechLaw - ESAT Contract	R-B-HA3-18	E100806-02	Soil	Soil	08/24/2010 16:20:00	09/02/2010 08:51:00	09/03/2010 12:03:42	EH03101
Superfund, US EPA Region 5	Eagle Zinc	10CE30	TechLaw - ESAT Contract	R-B-HA3-18	E100806-02	Soil	Soil	08/24/2010 16:20:00	09/02/2010 08:51:00	09/03/2010 12:03:42	EH03101
Superfund, US EPA Region 5	Eagle Zinc	10CE30	TechLaw - ESAT Contract	R-B-HA3-18	E100806-02	Soil	Soil	08/24/2010 16:20:00	09/02/2010 08:51:00	09/03/2010 12:03:42	EH03101
Superfund, US EPA Region 5	Eagle Zinc	10CE30	TechLaw - ESAT Contract	R-B-HA3-18	E100806-02	Soil	Soil	08/24/2010 16:20:00	09/02/2010 08:51:00	09/03/2010 12:03:42	EH03101
Superfund, US EPA Region 5	Eagle Zinc	10CE30	TechLaw - ESAT Contract	R-B-HA3-18	E100806-02	Soil	Soil	08/24/2010 16:20:00	09/02/2010 08:51:00	09/08/2010 10:32:51	EH03101
Superfund, US EPA Region 5	Eagle Zinc	10CE30	TechLaw - ESAT Contract	R-B-HA3-18	E100806-02	Soil	Soil	08/24/2010 16:20:00	09/02/2010 08:51:00	09/03/2010 12:03:42	EH03101
Superfund, US EPA Region 5	Eagle Zinc	10CE30	TechLaw - ESAT Contract	R-D1-HA4-09	E100806-03	Soil	Soil	08/24/2010 12:10:00	09/02/2010 08:51:00	09/03/2010 12:05:49	EH03101
Superfund, US EPA Region 5	Eagle Zinc	10CE30	TechLaw - ESAT Contract	R-D1-HA4-09	E100806-03	Soil	Soil	08/24/2010 12:10:00	09/02/2010 08:51:00	09/03/2010 12:05:49	EH03101
Superfund, US EPA Region 5	Eagle Zinc	10CE30	TechLaw - ESAT Contract	R-D1-HA4-09	E100806-03	Soil	Soil	08/24/2010 12:10:00	09/02/2010 08:51:00	09/03/2010 12:05:49	EH03101
Superfund, US EPA Region 5	Eagle Zinc	10CE30	TechLaw - ESAT Contract	R-D1-HA4-09	E100806-03	Soil	Soil	08/24/2010 12:10:00	09/02/2010 08:51:00	09/03/2010 12:05:49	EH03101
Superfund, US EPA Region 5	Eagle Zinc	10CE30	TechLaw - ESAT Contract	R-D1-HA4-09	E100806-03	Soil	Soil	08/24/2010 12:10:00	09/02/2010 08:51:00	09/10/2010 10:20:14	EH03101
Superfund, US EPA Region 5	Eagle Zinc	10CE30	TechLaw - ESAT Contract	R-D1-HA4-09	E100806-03	Soil	Soil	08/24/2010 12:10:00	09/02/2010 08:51:00	09/03/2010 12:05:49	EH03101
Superfund, US EPA Region 5	Eagle Zinc	10CE30	TechLaw - ESAT Contract	R-D1-HA4-10	E100806-04	Soil	Soil	08/24/2010 12:15:00	09/02/2010 08:51:00	09/03/2010 12:07:58	EH03101
Superfund, US EPA Region 5	Eagle Zinc	10CE30	TechLaw - ESAT Contract	R-D1-HA4-10	E100806-04	Soil	Soil	08/24/2010 12:15:00	09/02/2010 08:51:00	09/03/2010 12:07:58	EH03101
Superfund, US EPA Region 5	Eagle Zinc	10CE30	TechLaw - ESAT Contract	R-D1-HA4-10	E100806-04	Soil	Soil	08/24/2010 12:15:00	09/02/2010 08:51:00	09/03/2010 12:07:58	EH03101
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Superfund, US EPA Region 5	Eagle Zinc	10CE30	TechLaw - ESAT Contract	R-D1-HA4-10	E100806-04	Soil	Soil	08/24/2010 12:15:00	09/02/2010 08:51:00	09/08/2010 10:37:00	EH03101
Superfund, US EPA Region 5	Eagle Zinc	10CE30	TechLaw - ESAT Contract	R-D1-HA4-10	E100806-04	Soil	Soil	08/24/2010 12:15:00	09/02/2010 08:51:00	09/03/2010 12:07:58	EH03101
Superfund, US EPA Region 5	Eagle Zinc	10CE30	TechLaw - ESAT Contract	R-D2-HA3-08	E100806-05	Soil	Soil	08/24/2010 12:00:00	09/02/2010 08:51:00	09/03/2010 12:22:05	EH03101
Superfund, US EPA Region 5	Eagle Zinc	10CE30	TechLaw - ESAT Contract	R-D2-HA3-08	E100806-05	Soil	Soil	08/24/2010 12:00:00	09/02/2010 08:51:00	09/03/2010 12:22:05	EH03101
Superfund, US EPA Region 5	Eagle Zinc	10CE30	TechLaw - ESAT Contract	R-D2-HA3-08	E100806-05	Soil	Soil	08/24/2010 12:00:00	09/02/2010 08:51:00	09/03/2010 12:22:05	EH03101
Superfund, US EPA Region 5	Eagle Zinc	10CE30	TechLaw - ESAT Contract	R-D2-HA3-08	E100806-05	Soil	Soil	08/24/2010 12:00:00	09/02/2010 08:51:00	09/03/2010 12:22:05	EH03101
Superfund, US EPA Region 5	Eagle Zinc	10CE30	TechLaw - ESAT Contract	R-D2-HA3-08	E100806-05	Soil	Soil	08/24/2010 12:00:00	09/02/2010 08:51:00	09/08/2010 10:51:14	EH03101
Superfund, US EPA Region 5	Eagle Zinc	10CE30	TechLaw - ESAT Contract	R-D2-HA3-08	E100806-05	Soil	Soil	08/24/2010 12:00:00	09/02/2010 08:51:00	09/03/2010 12:22:05	EH03101
Superfund, US EPA Region 5	Eagle Zinc	10CE30	TechLaw - ESAT Contract	RD-D2-HA3-07	E100806-06	Soil	Soil	08/24/2010 12:01:00	09/02/2010 08:51:00	09/03/2010 12:24:04	EH03101
Superfund, US EPA Region 5	Eagle Zinc	10CE30	TechLaw - ESAT Contract	RD-D2-HA3-07	E100806-06	Soil	Soil	08/24/2010 12:01:00	09/02/2010 08:51:00	09/03/2010 12:24:04	EH03101
Superfund, US EPA Region 5	Eagle Zinc	10CE30	TechLaw - ESAT Contract	RD-D2-HA3-07	E100806-06	Soil	Soil	08/24/2010 12:01:00	09/02/2010 08:51:00	09/03/2010 12:24:04	EH03101
Superfund, US EPA Region 5	Eagle Zinc	10CE30	TechLaw - ESAT Contract	RD-D2-HA3-07	E100806-06	Soil	Soil	08/24/2010 12:01:00	09/02/2010 08:51:00	09/03/2010 12:24:04	EH03101
Superfund, US EPA Region 5	Eagle Zinc	10CE30	TechLaw - ESAT Contract	RD-D2-HA3-07	E100806-06	Soil	Soil	08/24/2010 12:01:00	09/02/2010 08:51:00	09/08/2010 10:53:14	EH03101
Superfund, US EPA Region 5	Eagle Zinc	10CE30	TechLaw - ESAT Contract	RD-D2-HA3-07	E100806-06	Soil	Soil	08/24/2010 12:01:00	09/02/2010 08:51:00	09/03/2010 12:24:04	EH03101
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Superfund, US EPA Region 5	Eagle Zinc	10CE30	TechLaw - ESAT Contract	R-G-HA4-16	E100806-07	Soil	Soil	08/24/2010 15:55:00	09/02/2010 08:51:00	09/03/2010 12:26:03	EH03101
Superfund, US EPA Region 5	Eagle Zinc	10CE30	TechLaw - ESAT Contract	R-G-HA4-16	E100806-07	Soil	Soil	08/24/2010 15:55:00	09/02/2010 08:51:00	09/03/2010 12:26:03	EH03101
Superfund, US EPA Region 5	Eagle Zinc	10CE30	TechLaw - ESAT Contract	R-G-HA4-16	E100806-07	Soil	Soil	08/24/2010 15:55:00	09/02/2010 08:51:00	09/03/2010 12:26:03	EH03101
Superfund, US EPA Region 5	Eagle Zinc	10CE30	TechLaw - ESAT Contract	R-G-HA4-16	E100806-07	Soil	Soil	08/24/2010 15:55:00	09/02/2010 08:51:00	09/10/2010 10:22:13	EH03101
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Superfund, US EPA Region 5	Eagle Zinc	10CE30	TechLaw - ESAT Contract	R-J-HA1-12	E100806-08	Soil	Soil	08/24/2010 15:10:00	09/02/2010 08:51:00	09/03/2010 12:28:18	EH03101
Superfund, US EPA Region 5	Eagle Zinc	10CE30	TechLaw - ESAT Contract	R-J-HA1-12	E100806-08	Soil	Soil	08/24/2010 15:10:00	09/02/2010 08:51:00	09/03/2010 12:28:18	EH03101
Superfund, US EPA Region 5	Eagle Zinc	10CE30	TechLaw - ESAT Contract	R-J-HA1-12	E100806-08	Soil	Soil	08/24/2010 15:10:00	09/02/2010 08:51:00	09/03/2010 12:28:18	EH03101
Superfund, US EPA Region 5	Eagle Zinc	10CE30	TechLaw - ESAT Contract	R-J-HA1-12	E100806-08	Soil	Soil	08/24/2010 15:10:00	09/02/2010 08:51:00	09/03/2010 12:28:18	EH03101
Superfund, US EPA Region 5	Eagle Zinc	10CE30	TechLaw - ESAT Contract	R-J-HA1-12	E100806-08	Soil	Soil	08/24/2010 15:10:00	09/02/2010 08:51:00	09/10/2010 10:24:25	EH03101
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Superfund, US EPA Region 5	Eagle Zinc	10CE30	TechLaw - ESAT Contract	R-K-HA3-19	E100806-09	Soil	Soil	08/25/2010 09:35:00	09/02/2010 08:51:00	09/03/2010 12:30:21	EH03101
Superfund, US EPA Region 5	Eagle Zinc	10CE30	TechLaw - ESAT Contract	R-K-HA3-19	E100806-09	Soil	Soil	08/25/2010 09:35:00	09/02/2010 08:51:00	09/03/2010 12:30:21	EH03101
Superfund, US EPA Region 5	Eagle Zinc	10CE30	TechLaw - ESAT Contract	R-K-HA3-19	E100806-09	Soil	Soil	08/25/2010 09:35:00	09/02/2010 08:51:00	09/03/2010 12:30:21	EH03101

Superfund, US EPA Region 5	Eagle Zinc	10CE30	TechLaw - ESAT Contract	R-K-HA3-19	E100806-09	Soil	Soil	08/25/2010 09:35:00	09/02/2010 08:51:00	09/03/2010 12:30:21	EH03101
Superfund, US EPA Region 5	Eagle Zinc	10CE30	TechLaw - ESAT Contract	R-K-HA3-19	E100806-09	Soil	Soil	08/25/2010 09:35:00	09/02/2010 08:51:00	09/08/2010 10:59:45	EH03101
Superfund, US EPA Region 5	Eagle Zinc	10CE30	TechLaw - ESAT Contract	R-K-HA3-19	E100806-09	Soil	Soil	08/25/2010 09:35:00	09/02/2010 08:51:00	09/03/2010 12:30:21	EH03101
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Superfund, US EPA Region 5	Eagle Zinc	10CE30	TechLaw - ESAT Contract	R-L1-HA3-21	E100806-10	Soil	Soil	08/25/2010 11:25:00	09/02/2010 08:51:00	09/03/2010 12:32:22	EH03101
Superfund, US EPA Region 5	Eagle Zinc	10CE30	TechLaw - ESAT Contract	R-L1-HA3-21	E100806-10	Soil	Soil	08/25/2010 11:25:00	09/02/2010 08:51:00	09/03/2010 12:32:22	EH03101
Superfund, US EPA Region 5	Eagle Zinc	10CE30	TechLaw - ESAT Contract	R-L1-HA3-21	E100806-10	Soil	Soil	08/25/2010 11:25:00	09/02/2010 08:51:00	09/03/2010 12:32:22	EH03101
Superfund, US EPA Region 5	Eagle Zinc	10CE30	TechLaw - ESAT Contract	R-L1-HA3-21	E100806-10	Soil	Soil	08/25/2010 11:25:00	09/02/2010 08:51:00	09/08/2010 11:01:46	EH03101
Superfund, US EPA Region 5	Eagle Zinc	10CE30	TechLaw - ESAT Contract	R-L1-HA3-21	E100806-10	Soil	Soil	08/25/2010 11:25:00	09/02/2010 08:51:00	09/03/2010 12:32:22	EH03101
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Superfund, US EPA Region 5	Eagle Zinc	10CE30	TechLaw - ESAT Contract	R-C-HA1-01	E100806-11	Soil	Soil	08/23/2010 16:01:00	09/02/2010 08:51:00	09/03/2010 12:34:21	EH03101
Superfund, US EPA Region 5	Eagle Zinc	10CE30	TechLaw - ESAT Contract	R-C-HA1-01	E100806-11	Soil	Soil	08/23/2010 16:01:00	09/02/2010 08:51:00	09/08/2010 11:03:47	EH03101
Superfund, US EPA Region 5	Eagle Zinc	10CE30	TechLaw - ESAT Contract	R-C-HA1-01	E100806-11	Soil	Soil	08/23/2010 16:01:00	09/02/2010 08:51:00	09/03/2010 12:34:21	EH03101
Superfund, US EPA Region 5	Eagle Zinc	10CE30	TechLaw - ESAT Contract	R-C-HA1-02	E100806-12	Soil	Soil	08/23/2010 15:58:00	09/02/2010 08:51:00	09/03/2010 12:42:29	EH03101
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Superfund, US EPA Region 5	Eagle Zinc	10CE30	TechLaw - ESAT Contract	R-C-HA1-02	E100806-12	Soil	Soil	08/23/2010 15:58:00	09/02/2010 08:51:00	09/03/2010 12:42:29	EH03101
Superfund, US EPA Region 5	Eagle Zinc	10CE30	TechLaw - ESAT Contract	R-C-HA1-02	E100806-12	Soil	Soil	08/23/2010 15:58:00	09/02/2010 08:51:00	09/08/2010 11:11:42	EH03101
Superfund, US EPA Region 5	Eagle Zinc	10CE30	TechLaw - ESAT Contract	R-C-HA1-02	E100806-12	Soil	Soil	08/23/2010 15:58:00	09/02/2010 08:51:00	09/03/2010 12:42:29	EH03101
Superfund, US EPA Region 5	Eagle Zinc	10CE30	TechLaw - ESAT Contract	R-D1-HA2-03	E100806-13	Soil	Soil	08/24/2010 10:08:00	09/02/2010 08:51:00	09/03/2010 12:58:39	EH03101
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Superfund, US EPA Region 5	Eagle Zinc	10CE30	TechLaw - ESAT Contract	R-D1-HA2-03	E100806-13	Soil	Soil	08/24/2010 10:08:00	09/02/2010 08:51:00	09/03/2010 12:58:39	EH03101
Superfund, US EPA Region 5	Eagle Zinc	10CE30	TechLaw - ESAT Contract	R-D1-HA2-03	E100806-13	Soil	Soil	08/24/2010 10:08:00	09/02/2010 08:51:00	09/03/2010 12:58:39	EH03101
Superfund, US EPA Region 5	Eagle Zinc	10CE30	TechLaw - ESAT Contract	R-D1-HA2-03	E100806-13	Soil	Soil	08/24/2010 10:08:00	09/02/2010 08:51:00	09/08/2010 11:27:51	EH03101
Superfund, US EPA Region 5	Eagle Zinc	10CE30	TechLaw - ESAT Contract	R-D1-HA2-03	E100806-13	Soil	Soil	08/24/2010 10:08:00	09/02/2010 08:51:00	09/03/2010 12:58:39	EH03101
Superfund, US EPA Region 5	Eagle Zinc	10CE30	TechLaw - ESAT Contract	R-D1-HA2-04	E100806-14	Soil	Soil	08/24/2010 11:15:00	09/02/2010 08:51:00	09/03/2010 13:00:41	EH03101
Superfund, US EPA Region 5	Eagle Zinc	10CE30	TechLaw - ESAT Contract	R-D1-HA2-04	E100806-14	Soil	Soil	08/24/2010 11:15:00	09/02/2010 08:51:00	09/03/2010 13:00:41	EH03101
Superfund, US EPA Region 5	Eagle Zinc	10CE30	TechLaw - ESAT Contract	R-D1-HA2-04	E100806-14	Soil	Soil	08/24/2010 11:15:00	09/02/2010 08:51:00	09/03/2010 13:00:41	EH03101
Superfund, US EPA Region 5	Eagle Zinc	10CE30	TechLaw - ESAT Contract	R-D1-HA2-04	E100806-14	Soil	Soil	08/24/2010 11:15:00	09/02/2010 08:51:00	09/03/2010 13:00:41	EH03101
Superfund, US EPA Region 5	Eagle Zinc	10CE30	TechLaw - ESAT Contract	R-D1-HA2-04	E100806-14	Soil	Soil	08/24/2010 11:15:00	09/02/2010 08:51:00	09/08/2010 11:29:52	EH03101
Superfund, US EPA Region 5	Eagle Zinc	10CE30	TechLaw - ESAT Contract	R-D1-HA2-04	E100806-14	Soil	Soil	08/24/2010 11:15:00	09/02/2010 08:51:00	09/03/2010 13:00:41	EH03101
Superfund, US EPA Region 5	Eagle Zinc	10CE30	TechLaw - ESAT Contract	R-D1-HA2-05	E100806-15	Soil	Soil	08/24/2010 11:20:00	09/02/2010 08:51:00	09/03/2010 13:02:40	EH03101
Superfund, US EPA Region 5	Eagle Zinc	10CE30	TechLaw - ESAT Contract	R-D1-HA2-05	E100806-15	Soil	Soil	08/24/2010 11:20:00	09/02/2010 08:51:00	09/03/2010 13:02:40	EH03101
Superfund, US EPA Region 5	Eagle Zinc	10CE30	TechLaw - ESAT Contract	R-D1-HA2-05	E100806-15	Soil	Soil	08/24/2010 11:20:00	09/02/2010 08:51:00	09/03/2010 13:02:40	EH03101
Superfund, US EPA Region 5	Eagle Zinc	10CE30	TechLaw - ESAT Contract	R-D1-HA2-05	E100806-15	Soil	Soil	08/24/2010 11:20:00	09/02/2010 08:51:00	09/03/2010 13:02:40	EH03101
Superfund, US EPA Region 5	Eagle Zinc	10CE30	TechLaw - ESAT Contract	R-D1-HA2-05	E100806-15	Soil	Soil	08/24/2010 11:20:00	09/02/2010 08:51:00	09/08/2010 11:31:52	EH03101
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Superfund, US EPA Region 5	Eagle Zinc	10CE30	TechLaw - ESAT Contract	R-D1-HA2-06	E100806-16	Soil	Soil	08/24/2010 11:25:00	09/02/2010 08:51:00	09/03/2010 13:04:48	EH03101
Superfund, US EPA Region 5	Eagle Zinc	10CE30	TechLaw - ESAT Contract	R-D1-HA2-06	E100806-16	Soil	Soil	08/24/2010 11:25:00	09/02/2010 08:51:00	09/03/2010 13:04:48	EH03101
Superfund, US EPA Region 5	Eagle Zinc	10CE30	TechLaw - ESAT Contract	R-D1-HA2-06	E100806-16	Soil	Soil	08/24/2010 11:25:00	09/02/2010 08:51:00	09/03/2010 13:04:48	EH03101
Superfund, US EPA Region 5	Eagle Zinc	10CE30	TechLaw - ESAT Contract	R-D1-HA2-06	E100806-16	Soil	Soil	08/24/2010 11:25:00	09/02/2010 08:51:00	09/03/2010 13:04:48	EH03101
Superfund, US EPA Region 5	Eagle Zinc	10CE30	TechLaw - ESAT Contract	R-D1-HA2-06	E100806-16	Soil	Soil	08/24/2010 11:25:00	09/02/2010 08:51:00	09/08/2010 11:33:49	EH03101
Superfund, US EPA Region 5	Eagle Zinc	10CE30	TechLaw - ESAT Contract	R-D1-HA2-06	E100806-16	Soil	Soil	08/24/2010 11:25:00	09/02/2010 08:51:00	09/03/2010 13:04:48	EH03101
Superfund, US EPA Region 5	Eagle Zinc	10CE30	TechLaw - ESAT Contract	R-D1-HA3-11	E100806-17	Soil	Soil	08/24/2010 14:00:00	09/02/2010 08:51:00	09/03/2010 13:06:57	EH03101
Superfund, US EPA Region 5	Eagle Zinc	10CE30	TechLaw - ESAT Contract	R-D1-HA3-11	E100806-17	Soil	Soil	08/24/2010 14:00:00	09/02/2010 08:51:00	09/03/2010 13:06:57	EH03101
Superfund, US EPA Region 5	Eagle Zinc	10CE30	TechLaw - ESAT Contract	R-D1-HA3-11	E100806-17	Soil	Soil	08/24/2010 14:00:00	09/02/2010 08:51:00	09/03/2010 13:06:57	EH03101
Superfund, US EPA Region 5	Eagle Zinc	10CE30	TechLaw - ESAT Contract	R-D1-HA3-11	E100806-17	Soil	Soil	08/24/2010 14:00:00	09/02/2010 08:51:00	09/03/2010 13:06:57	EH03101
Superfund, US EPA Region 5	Eagle Zinc	10CE30	TechLaw - ESAT Contract	R-D1-HA3-11	E100806-17	Soil	Soil	08/24/2010 14:00:00	09/02/2010 08:51:00	09/08/2010 11:35:46	EH03101
Superfund, US EPA Region 5	Eagle Zinc	10CE30	TechLaw - ESAT Contract	R-D1-HA3-11	E100806-17	Soil	Soil	08/24/2010 14:00:00	09/02/2010 08:51:00	09/03/2010 13:06:57	EH03101
Superfund, US EPA Region 5	Eagle Zinc	10CE30	TechLaw - ESAT Contract	R-I-HA1-15	E100806-18	Soil	Soil	08/24/2010 15:45:00	09/02/2010 08:51:00	09/03/2010 13:08:55	EH03101

Superfund, US EPA Region 5	Eagle Zinc	10CE30	TechLaw - ESAT Contract	R-I-HA1-15	E100806-18	Soil	Soil	08/24/2010 15:45:00	09/02/2010 08:51:00	09/03/2010 13:08:55	EH03101
Superfund, US EPA Region 5	Eagle Zinc	10CE30	TechLaw - ESAT Contract	R-I-HA1-15	E100806-18	Soil	Soil	08/24/2010 15:45:00	09/02/2010 08:51:00	09/03/2010 13:08:55	EH03101
Superfund, US EPA Region 5	Eagle Zinc	10CE30	TechLaw - ESAT Contract	R-I-HA1-15	E100806-18	Soil	Soil	08/24/2010 15:45:00	09/02/2010 08:51:00	09/03/2010 13:08:55	EH03101
Superfund, US EPA Region 5	Eagle Zinc	10CE30	TechLaw - ESAT Contract	R-I-HA1-15	E100806-18	Soil	Soil	08/24/2010 15:45:00	09/02/2010 08:51:00	09/08/2010 11:37:44	EH03101
Superfund, US EPA Region 5	Eagle Zinc	10CE30	TechLaw - ESAT Contract	R-I-HA1-15	E100806-18	Soil	Soil	08/24/2010 15:45:00	09/02/2010 08:51:00	09/03/2010 13:08:55	EH03101
Superfund, US EPA Region 5	Eagle Zinc	10CE30	TechLaw - ESAT Contract	R-J-HA4-13	E100806-19	Soil	Soil	08/24/2010 15:20:00	09/02/2010 08:51:00	09/03/2010 13:10:54	EH03101
Superfund, US EPA Region 5	Eagle Zinc	10CE30	TechLaw - ESAT Contract	R-J-HA4-13	E100806-19	Soil	Soil	08/24/2010 15:20:00	09/02/2010 08:51:00	09/03/2010 13:10:54	EH03101
Superfund, US EPA Region 5	Eagle Zinc	10CE30	TechLaw - ESAT Contract	R-J-HA4-13	E100806-19	Soil	Soil	08/24/2010 15:20:00	09/02/2010 08:51:00	09/03/2010 13:10:54	EH03101
Superfund, US EPA Region 5	Eagle Zinc	10CE30	TechLaw - ESAT Contract	R-J-HA4-13	E100806-19	Soil	Soil	08/24/2010 15:20:00	09/02/2010 08:51:00	09/03/2010 13:10:54	EH03101
Superfund, US EPA Region 5	Eagle Zinc	10CE30	TechLaw - ESAT Contract	R-J-HA4-13	E100806-19	Soil	Soil	08/24/2010 15:20:00	09/02/2010 08:51:00	09/08/2010 11:39:44	EH03101
Superfund, US EPA Region 5	Eagle Zinc	10CE30	TechLaw - ESAT Contract	R-J-HA4-13	E100806-19	Soil	Soil	08/24/2010 15:20:00	09/02/2010 08:51:00	09/03/2010 13:10:54	EH03101
Superfund, US EPA Region 5	Eagle Zinc	10CE30	TechLaw - ESAT Contract	R-J-HA4-14	E100806-20	Soil	Soil	08/24/2010 15:25:00	09/02/2010 08:51:00	09/03/2010 13:13:02	EH03101
Superfund, US EPA Region 5	Eagle Zinc	10CE30	TechLaw - ESAT Contract	R-J-HA4-14	E100806-20	Soil	Soil	08/24/2010 15:25:00	09/02/2010 08:51:00	09/03/2010 13:13:02	EH03101
Superfund, US EPA Region 5	Eagle Zinc	10CE30	TechLaw - ESAT Contract	R-J-HA4-14	E100806-20	Soil	Soil	08/24/2010 15:25:00	09/02/2010 08:51:00	09/03/2010 13:13:02	EH03101
Superfund, US EPA Region 5	Eagle Zinc	10CE30	TechLaw - ESAT Contract	R-J-HA4-14	E100806-20	Soil	Soil	08/24/2010 15:25:00	09/02/2010 08:51:00	09/03/2010 13:13:02	EH03101
Superfund, US EPA Region 5	Eagle Zinc	10CE30	TechLaw - ESAT Contract	R-J-HA4-14	E100806-20	Soil	Soil	08/24/2010 15:25:00	09/02/2010 08:51:00	09/08/2010 11:41:41	EH03101
Superfund, US EPA Region 5	Eagle Zinc	10CE30	TechLaw - ESAT Contract	R-J-HA4-14	E100806-20	Soil	Soil	08/24/2010 15:25:00	09/02/2010 08:51:00	09/03/2010 13:13:02	EH03101
Superfund, US EPA Region 5	Eagle Zinc	10CE30	TechLaw - ESAT Contract	RD-L1-HA3-20	E100806-21	Soil	Soil	08/25/2010 11:26:00	09/02/2010 08:53:00	09/03/2010 13:35:35	EH03102
Superfund, US EPA Region 5	Eagle Zinc	10CE30	TechLaw - ESAT Contract	RD-L1-HA3-20	E100806-21	Soil	Soil	08/25/2010 11:26:00	09/02/2010 08:53:00	09/03/2010 13:35:35	EH03102
Superfund, US EPA Region 5	Eagle Zinc	10CE30	TechLaw - ESAT Contract	RD-L1-HA3-20	E100806-21	Soil	Soil	08/25/2010 11:26:00	09/02/2010 08:53:00	09/03/2010 13:35:35	EH03102
Superfund, US EPA Region 5	Eagle Zinc	10CE30	TechLaw - ESAT Contract	RD-L1-HA3-20	E100806-21	Soil	Soil	08/25/2010 11:26:00	09/02/2010 08:53:00	09/03/2010 13:35:35	EH03102
Superfund, US EPA Region 5	Eagle Zinc	10CE30	TechLaw - ESAT Contract	RD-L1-HA3-20	E100806-21	Soil	Soil	08/25/2010 11:26:00	09/02/2010 08:53:00	09/08/2010 12:03:53	EH03102
Superfund, US EPA Region 5	Eagle Zinc	10CE30	TechLaw - ESAT Contract	RD-L1-HA3-20	E100806-21	Soil	Soil	08/25/2010 11:26:00	09/02/2010 08:53:00	09/03/2010 13:35:35	EH03102
Superfund, US EPA Region 5	Eagle Zinc	10CE30	TechLaw - ESAT Contract	R-M-HA3-22	E100806-22	Soil	Soil	08/25/2010 12:00:00	09/02/2010 08:53:00	09/03/2010 13:45:38	EH03102
Superfund, US EPA Region 5	Eagle Zinc	10CE30	TechLaw - ESAT Contract	R-M-HA3-22	E100806-22	Soil	Soil	08/25/2010 12:00:00	09/02/2010 08:53:00	09/03/2010 13:45:38	EH03102
Superfund, US EPA Region 5	Eagle Zinc	10CE30	TechLaw - ESAT Contract	R-M-HA3-22	E100806-22	Soil	Soil	08/25/2010 12:00:00	09/02/2010 08:53:00	09/03/2010 13:45:38	EH03102
Superfund, US EPA Region 5	Eagle Zinc	10CE30	TechLaw - ESAT Contract	R-M-HA3-22	E100806-22	Soil	Soil	08/25/2010 12:00:00	09/02/2010 08:53:00	09/03/2010 13:45:38	EH03102
Superfund, US EPA Region 5	Eagle Zinc	10CE30	TechLaw - ESAT Contract	R-M-HA3-22	E100806-22	Soil	Soil	08/25/2010 12:00:00	09/02/2010 08:53:00	09/08/2010 12:14:01	EH03102
Superfund, US EPA Region 5	Eagle Zinc	10CE30	TechLaw - ESAT Contract	R-M-HA3-22	E100806-22	Soil	Soil	08/25/2010 12:00:00	09/02/2010 08:53:00	09/03/2010 13:45:38	EH03102
Superfund, US EPA Region 5	Eagle Zinc	10CE30	TechLaw - ESAT Contract	R-A-HA4-18	E100806-23	Soil	Soil	08/26/2010 12:20:00	09/02/2010 08:53:00	09/03/2010 13:47:41	EH03102
Superfund, US EPA Region 5	Eagle Zinc	10CE30	TechLaw - ESAT Contract	R-A-HA4-18	E100806-23	Soil	Soil	08/26/2010 12:20:00	09/02/2010 08:53:00	09/03/2010 13:47:41	EH03102
Superfund, US EPA Region 5	Eagle Zinc	10CE30	TechLaw - ESAT Contract	R-A-HA4-18	E100806-23	Soil	Soil	08/26/2010 12:20:00	09/02/2010 08:53:00	09/03/2010 13:47:41	EH03102
Superfund, US EPA Region 5	Eagle Zinc	10CE30	TechLaw - ESAT Contract	R-A-HA4-18	E100806-23	Soil	Soil	08/26/2010 12:20:00	09/02/2010 08:53:00	09/03/2010 13:47:41	EH03102
Superfund, US EPA Region 5	Eagle Zinc	10CE30	TechLaw - ESAT Contract	R-A-HA4-18	E100806-23	Soil	Soil	08/26/2010 12:20:00	09/02/2010 08:53:00	09/08/2010 12:16:03	EH03102
Superfund, US EPA Region 5	Eagle Zinc	10CE30	TechLaw - ESAT Contract	R-A-HA4-18	E100806-23	Soil	Soil	08/26/2010 12:20:00	09/02/2010 08:53:00	09/03/2010 13:47:41	EH03102
Superfund, US EPA Region 5	Eagle Zinc	10CE30	TechLaw - ESAT Contract	R-B-HA4-19	E100806-24	Soil	Soil	08/26/2010 15:40:00	09/02/2010 08:53:00	09/03/2010 13:49:52	EH03102
Superfund, US EPA Region 5	Eagle Zinc	10CE30	TechLaw - ESAT Contract	R-B-HA4-19	E100806-24	Soil	Soil	08/26/2010 15:40:00	09/02/2010 08:53:00	09/03/2010 13:49:52	EH03102
Superfund, US EPA Region 5	Eagle Zinc	10CE30	TechLaw - ESAT Contract	R-B-HA4-19	E100806-24	Soil	Soil	08/26/2010 15:40:00	09/02/2010 08:53:00	09/03/2010 13:49:52	EH03102
Superfund, US EPA Region 5	Eagle Zinc	10CE30	TechLaw - ESAT Contract	R-B-HA4-19	E100806-24	Soil	Soil	08/26/2010 15:40:00	09/02/2010 08:53:00	09/03/2010 13:49:52	EH03102
Superfund, US EPA Region 5	Eagle Zinc	10CE30	TechLaw - ESAT Contract	R-B-HA4-19	E100806-24	Soil	Soil	08/26/2010 15:40:00	09/02/2010 08:53:00	09/08/2010 12:18:02	EH03102
Superfund, US EPA Region 5	Eagle Zinc	10CE30	TechLaw - ESAT Contract	R-B-HA4-19	E100806-24	Soil	Soil	08/26/2010 15:40:00	09/02/2010 08:53:00	09/03/2010 13:49:52	EH03102
Superfund, US EPA Region 5	Eagle Zinc	10CE30	TechLaw - ESAT Contract	R-C-HA2-01	E100806-25	Soil	Soil	08/26/2010 12:30:00	09/02/2010 08:53:00	09/03/2010 13:52:05	EH03102
Superfund, US EPA Region 5	Eagle Zinc	10CE30	TechLaw - ESAT Contract	R-C-HA2-01	E100806-25	Soil	Soil	08/26/2010 12:30:00	09/02/2010 08:53:00	09/03/2010 13:52:05	EH03102
Superfund, US EPA Region 5	Eagle Zinc	10CE30	TechLaw - ESAT Contract	R-C-HA2-01	E100806-25	Soil	Soil	08/26/2010 12:30:00	09/02/2010 08:53:00	09/03/2010 13:52:05	EH03102
Superfund, US EPA Region 5	Eagle Zinc	10CE30	TechLaw - ESAT Contract	R-C-HA2-01	E100806-25	Soil	Soil	08/26/2010 12:30:00	09/02/2010 08:53:00	09/03/2010 13:52:05	EH03102
Superfund, US EPA Region 5	Eagle Zinc	10CE30	TechLaw - ESAT Contract	R-C-HA2-01	E100806-25	Soil	Soil	08/26/2010 12:30:00	09/02/2010 08:53:00	09/08/2010 12:19:59	EH03102
Superfund, US EPA Region 5	Eagle Zinc	10CE30	TechLaw - ESAT Contract	R-C-HA2-01	E100806-25	Soil	Soil	08/26/2010 12:30:00	09/02/2010 08:53:00	09/03/2010 13:52:05	EH03102
Superfund, US EPA Region 5	Eagle Zinc	10CE30	TechLaw - ESAT Contract	R-D1-HA4-21	E100806-26	Soil	Soil	08/26/2010 15:45:00	09/02/2010 08:53:00	09/03/2010 13:54:09	EH03102
Superfund, US EPA Region 5	Eagle Zinc	10CE30	TechLaw - ESAT Contract	R-D1-HA4-21	E100806-26	Soil	Soil	08/26/2010 15:45:00	09/02/2010 08:53:00	09/03/2010 13:54:09	EH03102
Superfund, US EPA Region 5	Eagle Zinc	10CE30	TechLaw - ESAT Contract	R-D1-HA4-21	E100806-26	Soil	Soil	08/26/2010 15:45:00	09/02/2010 08:53:00	09/03/2010 13:54:09	EH03102
Superfund, US EPA Region 5	Eagle Zinc	10CE30	TechLaw - ESAT Contract	R-D1-HA4-21	E100806-26	Soil	Soil	08/26/2010 15:45:00	09/02/2010 08:53:00	09/03/2010 13:54:09	EH03102
Superfund, US EPA Region 5	Eagle Zinc	10CE30	TechLaw - ESAT Contract	R-D1-HA4-21	E100806-26	Soil	Soil	08/26/2010 15:45:00	09/02/2010 08:53:00	09/08/2010 12:22:05	EH03102

Superfund, US EPA Region 5	Eagle Zinc	10CE30	TechLaw - ESAT Contract	R-D1-HA4-21	E100806-26	Soil	Soil	08/26/2010 15:45:00	09/02/2010 08:53:00	09/03/2010 13:54:09	EH03102
Superfund, US EPA Region 5	Eagle Zinc	10CE30	TechLaw - ESAT Contract	RD-D1-HA4-20	E100806-27	Soil	Soil	08/26/2010 15:47:00	09/02/2010 08:53:00	09/08/2010 13:14:17	EH03102
Superfund, US EPA Region 5	Eagle Zinc	10CE30	TechLaw - ESAT Contract	RD-D1-HA4-20	E100806-27	Soil	Soil	08/26/2010 15:47:00	09/02/2010 08:53:00	09/08/2010 13:14:17	EH03102
Superfund, US EPA Region 5	Eagle Zinc	10CE30	TechLaw - ESAT Contract	RD-D1-HA4-20	E100806-27	Soil	Soil	08/26/2010 15:47:00	09/02/2010 08:53:00	09/03/2010 14:10:27	EH03102
Superfund, US EPA Region 5	Eagle Zinc	10CE30	TechLaw - ESAT Contract	RD-D1-HA4-20	E100806-27	Soil	Soil	08/26/2010 15:47:00	09/02/2010 08:53:00	09/08/2010 13:14:17	EH03102
Superfund, US EPA Region 5	Eagle Zinc	10CE30	TechLaw - ESAT Contract	RD-D1-HA4-20	E100806-27	Soil	Soil	08/26/2010 15:47:00	09/02/2010 08:53:00	09/08/2010 12:38:01	EH03102
Superfund, US EPA Region 5	Eagle Zinc	10CE30	TechLaw - ESAT Contract	RD-D1-HA4-20	E100806-27	Soil	Soil	08/26/2010 15:47:00	09/02/2010 08:53:00	09/03/2010 14:10:27	EH03102
Superfund, US EPA Region 5	Eagle Zinc	10CE30	TechLaw - ESAT Contract	R-G-HA4-22	E100806-28	Soil	Soil	08/26/2010 16:00:00	09/02/2010 08:53:00	09/08/2010 13:16:30	EH03102
Superfund, US EPA Region 5	Eagle Zinc	10CE30	TechLaw - ESAT Contract	R-G-HA4-22	E100806-28	Soil	Soil	08/26/2010 16:00:00	09/02/2010 08:53:00	09/08/2010 13:16:30	EH03102
Superfund, US EPA Region 5	Eagle Zinc	10CE30	TechLaw - ESAT Contract	R-G-HA4-22	E100806-28	Soil	Soil	08/26/2010 16:00:00	09/02/2010 08:53:00	09/03/2010 14:12:37	EH03102
Superfund, US EPA Region 5	Eagle Zinc	10CE30	TechLaw - ESAT Contract	R-G-HA4-22	E100806-28	Soil	Soil	08/26/2010 16:00:00	09/02/2010 08:53:00	09/08/2010 13:16:30	EH03102
Superfund, US EPA Region 5	Eagle Zinc	10CE30	TechLaw - ESAT Contract	R-G-HA4-22	E100806-28	Soil	Soil	08/26/2010 16:00:00	09/02/2010 08:53:00	09/08/2010 12:40:00	EH03102
Superfund, US EPA Region 5	Eagle Zinc	10CE30	TechLaw - ESAT Contract	R-G-HA4-22	E100806-28	Soil	Soil	08/26/2010 16:00:00	09/02/2010 08:53:00	09/03/2010 14:12:37	EH03102
Superfund, US EPA Region 5	Eagle Zinc	10CE30	TechLaw - ESAT Contract	R-M-HA3-24	E100806-29	Soil	Soil	08/26/2010 14:10:00	09/02/2010 08:53:00	09/08/2010 12:41:57	EH03102
Superfund, US EPA Region 5	Eagle Zinc	10CE30	TechLaw - ESAT Contract	R-M-HA3-24	E100806-29	Soil	Soil	08/26/2010 14:10:00	09/02/2010 08:53:00	09/08/2010 12:41:57	EH03102
Superfund, US EPA Region 5	Eagle Zinc	10CE30	TechLaw - ESAT Contract	R-M-HA3-24	E100806-29	Soil	Soil	08/26/2010 14:10:00	09/02/2010 08:53:00	09/03/2010 14:14:41	EH03102
Superfund, US EPA Region 5	Eagle Zinc	10CE30	TechLaw - ESAT Contract	R-M-HA3-24	E100806-29	Soil	Soil	08/26/2010 14:10:00	09/02/2010 08:53:00	09/08/2010 12:41:57	EH03102
Superfund, US EPA Region 5	Eagle Zinc	10CE30	TechLaw - ESAT Contract	R-M-HA3-24	E100806-29	Soil	Soil	08/26/2010 14:10:00	09/02/2010 08:53:00	09/08/2010 12:41:57	EH03102
Superfund, US EPA Region 5	Eagle Zinc	10CE30	TechLaw - ESAT Contract	R-M-HA3-24	E100806-29	Soil	Soil	08/26/2010 14:10:00	09/02/2010 08:53:00	09/03/2010 14:14:41	EH03102
Superfund, US EPA Region 5	Eagle Zinc	10CE30	TechLaw - ESAT Contract	R-M-HA4-23	E100806-30	Soil	Soil	08/26/2010 16:15:00	09/02/2010 08:53:00	09/08/2010 12:43:57	EH03102
Superfund, US EPA Region 5	Eagle Zinc	10CE30	TechLaw - ESAT Contract	R-M-HA4-23	E100806-30	Soil	Soil	08/26/2010 16:15:00	09/02/2010 08:53:00	09/08/2010 12:43:57	EH03102
Superfund, US EPA Region 5	Eagle Zinc	10CE30	TechLaw - ESAT Contract	R-M-HA4-23	E100806-30	Soil	Soil	08/26/2010 16:15:00	09/02/2010 08:53:00	09/03/2010 14:16:42	EH03102
Superfund, US EPA Region 5	Eagle Zinc	10CE30	TechLaw - ESAT Contract	R-M-HA4-23	E100806-30	Soil	Soil	08/26/2010 16:15:00	09/02/2010 08:53:00	09/08/2010 12:43:57	EH03102
Superfund, US EPA Region 5	Eagle Zinc	10CE30	TechLaw - ESAT Contract	R-M-HA4-23	E100806-30	Soil	Soil	08/26/2010 16:15:00	09/02/2010 08:53:00	09/08/2010 12:43:57	EH03102
Superfund, US EPA Region 5	Eagle Zinc	10CE30	TechLaw - ESAT Contract	R-M-HA4-23	E100806-30	Soil	Soil	08/26/2010 16:15:00	09/02/2010 08:53:00	09/03/2010 14:16:42	EH03102
Superfund, US EPA Region 5	Eagle Zinc	10CE30	TechLaw - ESAT Contract	R-N-HA2-02	E100806-31	Soil	Soil	08/26/2010 12:40:00	09/02/2010 08:53:00	09/08/2010 12:46:07	EH03102
Superfund, US EPA Region 5	Eagle Zinc	10CE30	TechLaw - ESAT Contract	R-N-HA2-02	E100806-31	Soil	Soil	08/26/2010 12:40:00	09/02/2010 08:53:00	09/08/2010 12:46:07	EH03102
Superfund, US EPA Region 5	Eagle Zinc	10CE30	TechLaw - ESAT Contract	R-N-HA2-02	E100806-31	Soil	Soil	08/26/2010 12:40:00	09/02/2010 08:53:00	09/03/2010 14:18:58	EH03102
Superfund, US EPA Region 5	Eagle Zinc	10CE30	TechLaw - ESAT Contract	R-N-HA2-02	E100806-31	Soil	Soil	08/26/2010 12:40:00	09/02/2010 08:53:00	09/08/2010 12:46:07	EH03102
Superfund, US EPA Region 5	Eagle Zinc	10CE30	TechLaw - ESAT Contract	R-N-HA2-02	E100806-31	Soil	Soil	08/26/2010 12:40:00	09/02/2010 08:53:00	09/08/2010 12:46:07	EH03102
Superfund, US EPA Region 5	Eagle Zinc	10CE30	TechLaw - ESAT Contract	R-N-HA2-02	E100806-31	Soil	Soil	08/26/2010 12:40:00	09/02/2010 08:53:00	09/03/2010 14:18:58	EH03102
Superfund, US EPA Region 5	Eagle Zinc	10CE30	TechLaw - ESAT Contract	R-P1-HA3-22	E100806-32	Soil	Soil	08/26/2010 11:55:00	09/02/2010 08:53:00	09/08/2010 12:54:15	EH03102
Superfund, US EPA Region 5	Eagle Zinc	10CE30	TechLaw - ESAT Contract	R-P1-HA3-22	E100806-32	Soil	Soil	08/26/2010 11:55:00	09/02/2010 08:53:00	09/08/2010 12:54:15	EH03102
Superfund, US EPA Region 5	Eagle Zinc	10CE30	TechLaw - ESAT Contract	R-P1-HA3-22	E100806-32	Soil	Soil	08/26/2010 11:55:00	09/02/2010 08:53:00	09/03/2010 14:27:14	EH03102
Superfund, US EPA Region 5	Eagle Zinc	10CE30	TechLaw - ESAT Contract	R-P1-HA3-22	E100806-32	Soil	Soil	08/26/2010 11:55:00	09/02/2010 08:53:00	09/08/2010 12:54:15	EH03102
Superfund, US EPA Region 5	Eagle Zinc	10CE30	TechLaw - ESAT Contract	R-P1-HA3-22	E100806-32	Soil	Soil	08/26/2010 11:55:00	09/02/2010 08:53:00	09/08/2010 12:54:15	EH03102
Superfund, US EPA Region 5	Eagle Zinc	10CE30	TechLaw - ESAT Contract	R-P1-HA3-22	E100806-32	Soil	Soil	08/26/2010 11:55:00	09/02/2010 08:53:00	09/03/2010 14:27:14	EH03102
Superfund, US EPA Region 5	Eagle Zinc	10CE30	TechLaw - ESAT Contract	R-P1-HA3-23	E100806-33	Soil	Soil	08/26/2010 14:20:00	09/02/2010 08:53:00	09/08/2010 12:56:15	EH03102
Superfund, US EPA Region 5	Eagle Zinc	10CE30	TechLaw - ESAT Contract	R-P1-HA3-23	E100806-33	Soil	Soil	08/26/2010 14:20:00	09/02/2010 08:53:00	09/08/2010 12:56:15	EH03102
Superfund, US EPA Region 5	Eagle Zinc	10CE30	TechLaw - ESAT Contract	R-P1-HA3-23	E100806-33	Soil	Soil	08/26/2010 14:20:00	09/02/2010 08:53:00	09/03/2010 14:29:13	EH03102
Superfund, US EPA Region 5	Eagle Zinc	10CE30	TechLaw - ESAT Contract	R-P1-HA3-23	E100806-33	Soil	Soil	08/26/2010 14:20:00	09/02/2010 08:53:00	09/08/2010 12:56:15	EH03102
Superfund, US EPA Region 5	Eagle Zinc	10CE30	TechLaw - ESAT Contract	R-P1-HA3-23	E100806-33	Soil	Soil	08/26/2010 14:20:00	09/02/2010 08:53:00	09/08/2010 12:56:15	EH03102
Superfund, US EPA Region 5	Eagle Zinc	10CE30	TechLaw - ESAT Contract	R-P1-HA3-23	E100806-33	Soil	Soil	08/26/2010 14:20:00	09/02/2010 08:53:00	09/03/2010 14:29:13	EH03102
Superfund, US EPA Region 5	Eagle Zinc	10CE30	TechLaw - ESAT Contract	R-CS-HA1-16	E100806-34	Soil	Soil	08/26/2010 13:35:00	09/02/2010 08:53:00	09/08/2010 13:18:36	EH03102
Superfund, US EPA Region 5	Eagle Zinc	10CE30	TechLaw - ESAT Contract	R-CS-HA1-16	E100806-34	Soil	Soil	08/26/2010 13:35:00	09/02/2010 08:53:00	09/08/2010 13:18:36	EH03102
Superfund, US EPA Region 5	Eagle Zinc	10CE30	TechLaw - ESAT Contract	R-CS-HA1-16	E100806-34	Soil	Soil	08/26/2010 13:35:00	09/02/2010 08:53:00	09/03/2010 14:31:15	EH03102
Superfund, US EPA Region 5	Eagle Zinc	10CE30	TechLaw - ESAT Contract	R-CS-HA1-16	E100806-34	Soil	Soil	08/26/2010 13:35:00	09/02/2010 08:53:00	09/08/2010 13:18:36	EH03102
Superfund, US EPA Region 5	Eagle Zinc	10CE30	TechLaw - ESAT Contract	R-CS-HA1-16	E100806-34	Soil	Soil	08/26/2010 13:35:00	09/02/2010 08:53:00	09/08/2010 12:58:17	EH03102
Superfund, US EPA Region 5	Eagle Zinc	10CE30	TechLaw - ESAT Contract	R-CS-HA1-16	E100806-34	Soil	Soil	08/26/2010 13:35:00	09/02/2010 08:53:00	09/03/2010 14:31:15	EH03102
Superfund, US EPA Region 5	Eagle Zinc	10CE30	TechLaw - ESAT Contract	PC-C-HA11-01	E100806-35	Paint Chips	Paint Chips	08/24/2010 15:22:00	09/09/2010 13:00:00	09/10/2010 11:37:31	EH03103
Superfund, US EPA Region 5	Eagle Zinc	10CE30	TechLaw - ESAT Contract	PC-D1-HA21-01	E100806-36	Paint Chips	Paint Chips	08/24/2010 09:21:00	09/09/2010 13:00:00	09/10/2010 11:48:06	EH03103
Superfund, US EPA Region 5	Eagle Zinc	10CE30	TechLaw - ESAT Contract	PC-D1-HA31-02	E100806-37	Paint Chips	Paint Chips	08/24/2010 10:40:00	09/09/2010 13:00:00	09/10/2010 11:50:23	EH03103

Superfund, US EPA Region 5	Eagle Zinc	10CE30	TechLaw - ESAT Contract	PC-G-HA61-01	E100806-38	Paint Chips	Paint Chips	08/24/2010 15:05:00	09/09/2010 13:00:00	09/10/2010 11:48:06	EH03103
Superfund, US EPA Region 5	Eagle Zinc	10CE30	TechLaw - ESAT Contract	PC-I3-HA51-01	E100806-39	Paint Chips	Paint Chips	08/24/2010 14:05:00	09/09/2010 13:00:00	09/10/2010 12:07:01	EH03103
Superfund, US EPA Region 5	Eagle Zinc	10CE30	TechLaw - ESAT Contract	PC-J-HA41-01	E100806-40	Paint Chips	Paint Chips	08/24/2010 11:55:00	09/09/2010 13:00:00	09/10/2010 12:09:12	EH03103
Superfund, US EPA Region 5	Eagle Zinc	10CE30	TechLaw - ESAT Contract	PC-O-HA81-01	E100806-41	Paint Chips	Paint Chips	08/24/2010 16:40:00	09/09/2010 13:00:00	09/10/2010 12:11:18	EH03103
Superfund, US EPA Region 5	Eagle Zinc	10CE30	TechLaw - ESAT Contract	PC-P2-HA71-01	E100806-42	Paint Chips	Paint Chips	08/24/2010 16:00:00	09/09/2010 13:00:00	09/10/2010 12:13:21	EH03103
Superfund, US EPA Region 5	Eagle Zinc	10CE30	TechLaw - ESAT Contract	PC-L1-HA101-01	E100806-43	Paint Chips	Paint Chips	08/25/2010 10:35:00	09/09/2010 13:00:00	09/10/2010 12:15:23	EH03103
Superfund, US EPA Region 5	Eagle Zinc	10CE30	TechLaw - ESAT Contract	PC-AST-HA119-01	E100806-44	Paint Chips	Paint Chips	08/25/2010 13:55:00	09/09/2010 13:00:00	09/10/2010 12:17:37	EH03103
Superfund, US EPA Region 5	Eagle Zinc	10CE30	TechLaw - ESAT Contract	PC-M-HA91-01	E100806-45	Paint Chips	Paint Chips	08/25/2010 09:30:00	09/09/2010 13:00:00	09/10/2010 12:42:45	EH03103
Superfund, US EPA Region 5	Eagle Zinc	10CE30	TechLaw - ESAT Contract	PC-N-HA111-01	E100806-46	Paint Chips	Paint Chips	08/25/2010 11:35:00	09/09/2010 13:00:00	09/10/2010 12:46:58	EH03103
Superfund, US EPA Region 5	Eagle Zinc	10CE30	TechLaw - ESAT Contract	W-D1-HA5-01	E100806-47	Wipe	Wipe	08/26/2010 12:30:00	09/09/2010 10:19:00	09/10/2010 10:50:37	EI00901
Superfund, US EPA Region 5	Eagle Zinc	10CE30	TechLaw - ESAT Contract	W-D1-HA5-02	E100806-48	Wipe	Wipe	08/26/2010 12:41:00	09/09/2010 10:19:00	09/10/2010 10:55:04	EI00901
Superfund, US EPA Region 5	Eagle Zinc	10CE30	TechLaw - ESAT Contract	W-D1-HA5-03	E100806-49	Wipe	Wipe	08/26/2010 12:48:00	09/09/2010 10:19:00	09/10/2010 10:57:55	EI00901
Superfund, US EPA Region 5	Eagle Zinc	10CE30	TechLaw - ESAT Contract	W-G-HA5-05	E100806-50	Wipe	Wipe	08/26/2010 13:21:00	09/09/2010 10:19:00	09/10/2010 11:00:20	EI00901
Superfund, US EPA Region 5	Eagle Zinc	10CE30	TechLaw - ESAT Contract	W-G-HA5-06	E100806-51	Wipe	Wipe	08/26/2010 13:10:00	09/09/2010 10:19:00	09/10/2010 11:02:31	EI00901
Superfund, US EPA Region 5	Eagle Zinc	10CE30	TechLaw - ESAT Contract	W-J-HA5-04	E100806-52	Wipe	Wipe	08/26/2010 12:55:00	09/09/2010 10:19:00	09/10/2010 11:04:32	EI00901

METHODCODE	METHODNAME	PREPNAME	ANALYTE	CASNUMBER	SURROGATE	TIC	Result	DL	RL	UNITS	RPToMDL	BASIS	DILUTION	SPIKELEVEL	RECOVERY	UPPERCL	LOWERCL	ANALYST
Metals ICP (S)	EPA 200.7	Hot Block Digestion	Copper	7440-50-8	FALSE	FALSE	9.9	0.4	4.5	mg/kg	TRUE	Dry	1					SC
Metals ICP (S)	EPA 200.7	Hot Block Digestion	Lead	7439-92-1	FALSE	FALSE	41	0.5	1.8	mg/kg	TRUE	Dry	1					SC
Metals ICP (S)	EPA 200.7	Hot Block Digestion	Manganese	7439-96-5	FALSE	FALSE	310	0.09	2.7	mg/kg	TRUE	Dry	1					SC
Metals ICP (S)	EPA 200.7	Hot Block Digestion	Arsenic	7440-38-2	FALSE	FALSE	1.9	1.3	1.8	mg/kg	TRUE	Dry	1					SC
Metals ICP (S)	EPA 200.7	Hot Block Digestion	Zinc	7440-66-6	FALSE	FALSE	2600	0.9	11	mg/kg	TRUE	Dry	1					SC
Metals ICP (S)	EPA 200.7	Hot Block Digestion	Cadmium	7440-43-9	FALSE	FALSE	2.6	0.09	0.9	mg/kg	TRUE	Dry	1					SC
Metals ICP (S)	EPA 200.7	Hot Block Digestion	Copper	7440-50-8	FALSE	FALSE	78	0.4	4.8	mg/kg	TRUE	Dry	1					SC
Metals ICP (S)	EPA 200.7	Hot Block Digestion	Lead	7439-92-1	FALSE	FALSE	810	0.6	1.9	mg/kg	TRUE	Dry	1					SC
Metals ICP (S)	EPA 200.7	Hot Block Digestion	Manganese	7439-96-5	FALSE	FALSE	300	0.1	2.9	mg/kg	TRUE	Dry	1					SC
Metals ICP (S)	EPA 200.7	Hot Block Digestion	Arsenic	7440-38-2	FALSE	FALSE	3.9	1.3	1.9	mg/kg	TRUE	Dry	1					SC
Metals ICP (S)	EPA 200.7	Hot Block Digestion	Zinc	7440-66-6	FALSE	FALSE	250000	96	1100	mg/kg	TRUE	Dry	100					SC
Metals ICP (S)	EPA 200.7	Hot Block Digestion	Cadmium	7440-43-9	FALSE	FALSE	12	0.1	1.0	mg/kg	TRUE	Dry	1					SC
Metals ICP (S)	EPA 200.7	Hot Block Digestion	Copper	7440-50-8	FALSE	FALSE	69	0.4	4.9	mg/kg	TRUE	Dry	1					SC
Metals ICP (S)	EPA 200.7	Hot Block Digestion	Lead	7439-92-1	FALSE	FALSE	6200	0.6	2.0	mg/kg	TRUE	Dry	1					SC
Metals ICP (S)	EPA 200.7	Hot Block Digestion	Manganese	7439-96-5	FALSE	FALSE	450	0.1	3.0	mg/kg	TRUE	Dry	1					SC
Metals ICP (S)	EPA 200.7	Hot Block Digestion	Arsenic	7440-38-2	FALSE	FALSE	4.4	1.4	2.0	mg/kg	TRUE	Dry	1					SC
Metals ICP (S)	EPA 200.7	Hot Block Digestion	Zinc	7440-66-6	FALSE	FALSE	92000	99	1200	mg/kg	TRUE	Dry	100					SC
Metals ICP (S)	EPA 200.7	Hot Block Digestion	Cadmium	7440-43-9	FALSE	FALSE	920	0.1	1.0	mg/kg	TRUE	Dry	1					SC
Metals ICP (S)	EPA 200.7	Hot Block Digestion	Copper	7440-50-8	FALSE	FALSE	27	0.4	4.9	mg/kg	TRUE	Dry	1					SC
Metals ICP (S)	EPA 200.7	Hot Block Digestion	Lead	7439-92-1	FALSE	FALSE	110	0.6	1.9	mg/kg	TRUE	Dry	1					SC
Metals ICP (S)	EPA 200.7	Hot Block Digestion	Manganese	7439-96-5	FALSE	FALSE	380	0.1	2.9	mg/kg	TRUE	Dry	1					SC
Metals ICP (S)	EPA 200.7	Hot Block Digestion	Arsenic	7440-38-2	FALSE	FALSE	U	1.4	1.9	mg/kg	TRUE	Dry	1					SC
Metals ICP (S)	EPA 200.7	Hot Block Digestion	Zinc	7440-66-6	FALSE	FALSE	6200	1.0	12	mg/kg	TRUE	Dry	1					SC
Metals ICP (S)	EPA 200.7	Hot Block Digestion	Cadmium	7440-43-9	FALSE	FALSE	6.8	0.1	1.0	mg/kg	TRUE	Dry	1					SC
Metals ICP (S)	EPA 200.7	Hot Block Digestion	Copper	7440-50-8	FALSE	FALSE	2.8	0.4	4.9	mg/kg	TRUE	Dry	1					SC
Metals ICP (S)	EPA 200.7	Hot Block Digestion	Lead	7439-92-1	FALSE	FALSE	9.1	0.6	2.0	mg/kg	TRUE	Dry	1					SC
Metals ICP (S)	EPA 200.7	Hot Block Digestion	Manganese	7439-96-5	FALSE	FALSE	210	0.1	2.9	mg/kg	TRUE	Dry	1					SC
Metals ICP (S)	EPA 200.7	Hot Block Digestion	Arsenic	7440-38-2	FALSE	FALSE	2.6	1.4	2.0	mg/kg	TRUE	Dry	1					SC
Metals ICP (S)	EPA 200.7	Hot Block Digestion	Zinc	7440-66-6	FALSE	FALSE	510	1.0	12	mg/kg	TRUE	Dry	1					SC
Metals ICP (S)	EPA 200.7	Hot Block Digestion	Cadmium	7440-43-9	FALSE	FALSE	1.4	0.1	1.0	mg/kg	TRUE	Dry	1					SC
Metals ICP (S)	EPA 200.7	Hot Block Digestion	Copper	7440-50-8	FALSE	FALSE	5.4	0.4	4.9	mg/kg	TRUE	Dry	1					SC
Metals ICP (S)	EPA 200.7	Hot Block Digestion	Lead	7439-92-1	FALSE	FALSE	51	0.6	2.0	mg/kg	TRUE	Dry	1					SC
Metals ICP (S)	EPA 200.7	Hot Block Digestion	Manganese	7439-96-5	FALSE	FALSE	76	0.1	2.9	mg/kg	TRUE	Dry	1					SC
Metals ICP (S)	EPA 200.7	Hot Block Digestion	Arsenic	7440-38-2	FALSE	FALSE	U	1.4	2.0	mg/kg	TRUE	Dry	1					SC
Metals ICP (S)	EPA 200.7	Hot Block Digestion	Zinc	7440-66-6	FALSE	FALSE	1400	1.0	12	mg/kg	TRUE	Dry	1					SC
Metals ICP (S)	EPA 200.7	Hot Block Digestion	Cadmium	7440-43-9	FALSE	FALSE	1.0	0.1	1.0	mg/kg	TRUE	Dry	1					SC
Metals ICP (S)	EPA 200.7	Hot Block Digestion	Copper	7440-50-8	FALSE	FALSE	40	0.4	4.7	mg/kg	TRUE	Dry	1					SC
Metals ICP (S)	EPA 200.7	Hot Block Digestion	Lead	7439-92-1	FALSE	FALSE	13	0.6	1.9	mg/kg	TRUE	Dry	1					SC
Metals ICP (S)	EPA 200.7	Hot Block Digestion	Manganese	7439-96-5	FALSE	FALSE	250	0.09	2.8	mg/kg	TRUE	Dry	1					SC
Metals ICP (S)	EPA 200.7	Hot Block Digestion	Arsenic	7440-38-2	FALSE	FALSE	U	1.3	1.9	mg/kg	TRUE	Dry	1					SC
Metals ICP (S)	EPA 200.7	Hot Block Digestion	Zinc	7440-66-6	FALSE	FALSE	5100	0.9	11	mg/kg	TRUE	Dry	1					SC
Metals ICP (S)	EPA 200.7	Hot Block Digestion	Cadmium	7440-43-9	FALSE	FALSE	0.7	0.09	0.9	mg/kg	TRUE	Dry	1					SC
Metals ICP (S)	EPA 200.7	Hot Block Digestion	Copper	7440-50-8	FALSE	FALSE	22	0.4	4.9	mg/kg	TRUE	Dry	1					SC
Metals ICP (S)	EPA 200.7	Hot Block Digestion	Lead	7439-92-1	FALSE	FALSE	40	0.6	2.0	mg/kg	TRUE	Dry	1					SC
Metals ICP (S)	EPA 200.7	Hot Block Digestion	Manganese	7439-96-5	FALSE	FALSE	190	0.1	3.0	mg/kg	TRUE	Dry	1					SC
Metals ICP (S)	EPA 200.7	Hot Block Digestion	Arsenic	7440-38-2	FALSE	FALSE	2.7	1.4	2.0	mg/kg	TRUE	Dry	1					SC
Metals ICP (S)	EPA 200.7	Hot Block Digestion	Zinc	7440-66-6	FALSE	FALSE	39000	99	1200	mg/kg	TRUE	Dry	100					SC
Metals ICP (S)	EPA 200.7	Hot Block Digestion	Cadmium	7440-43-9	FALSE	FALSE	26	0.1	1.0	mg/kg	TRUE	Dry	1					SC
Metals ICP (S)	EPA 200.7	Hot Block Digestion	Copper	7440-50-8	FALSE	FALSE	19	0.4	4.9	mg/kg	TRUE	Dry	1					SC
Metals ICP (S)	EPA 200.7	Hot Block Digestion	Lead	7439-92-1	FALSE	FALSE	71	0.6	2.0	mg/kg	TRUE	Dry	1					SC
Metals ICP (S)	EPA 200.7	Hot Block Digestion	Manganese	7439-96-5	FALSE	FALSE	300	0.1	2.9	mg/kg	TRUE	Dry	1					SC

Metals ICP (S)	EPA 200.7	Hot Block Digestion	Arsenic	7440-38-2	FALSE	FALSE	2.6	1.4	2.0	mg/kg	TRUE	Dry	1					SC
Metals ICP (S)	EPA 200.7	Hot Block Digestion	Zinc	7440-66-6	FALSE	FALSE	7100	1.0	12	mg/kg	TRUE	Dry	1					SC
Metals ICP (S)	EPA 200.7	Hot Block Digestion	Cadmium	7440-43-9	FALSE	FALSE	16	0.1	1.0	mg/kg	TRUE	Dry	1					SC
Metals ICP (S)	EPA 200.7	Hot Block Digestion	Copper	7440-50-8	FALSE	FALSE	9.2	0.4	5.0	mg/kg	TRUE	Dry	1					SC
Metals ICP (S)	EPA 200.7	Hot Block Digestion	Lead	7439-92-1	FALSE	FALSE	89	0.6	2.0	mg/kg	TRUE	Dry	1					SC
Metals ICP (S)	EPA 200.7	Hot Block Digestion	Manganese	7439-96-5	FALSE	FALSE	280	0.1	3.0	mg/kg	TRUE	Dry	1					SC
Metals ICP (S)	EPA 200.7	Hot Block Digestion	Arsenic	7440-38-2	FALSE	FALSE	3.1	1.4	2.0	mg/kg	TRUE	Dry	1					SC
Metals ICP (S)	EPA 200.7	Hot Block Digestion	Zinc	7440-66-6	FALSE	FALSE	2500	1.0	12	mg/kg	TRUE	Dry	1					SC
Metals ICP (S)	EPA 200.7	Hot Block Digestion	Cadmium	7440-43-9	FALSE	FALSE	3.8	0.1	1.0	mg/kg	TRUE	Dry	1					SC
Metals ICP (S)	EPA 200.7	Hot Block Digestion	Copper	7440-50-8	FALSE	FALSE	83	0.4	4.9	mg/kg	TRUE	Dry	1					SC
Metals ICP (S)	EPA 200.7	Hot Block Digestion	Lead	7439-92-1	FALSE	FALSE	370	0.6	2.0	mg/kg	TRUE	Dry	1					SC
Metals ICP (S)	EPA 200.7	Hot Block Digestion	Manganese	7439-96-5	FALSE	FALSE	12	0.1	2.9	mg/kg	TRUE	Dry	1					SC
Metals ICP (S)	EPA 200.7	Hot Block Digestion	Arsenic	7440-38-2	FALSE	FALSE	2.2	1.4	2.0	mg/kg	TRUE	Dry	1					SC
Metals ICP (S)	EPA 200.7	Hot Block Digestion	Zinc	7440-66-6	FALSE	FALSE	610000	98	1200	mg/kg	TRUE	Dry	100					SC
Metals ICP (S)	EPA 200.7	Hot Block Digestion	Cadmium	7440-43-9	FALSE	FALSE	150	0.1	1.0	mg/kg	TRUE	Dry	1					SC
Metals ICP (S)	EPA 200.7	Hot Block Digestion	Copper	7440-50-8	FALSE	FALSE	300	0.4	4.8	mg/kg	TRUE	Dry	1					SC
Metals ICP (S)	EPA 200.7	Hot Block Digestion	Lead	7439-92-1	FALSE	FALSE	22000	0.6	1.9	mg/kg	TRUE	Dry	1					SC
Metals ICP (S)	EPA 200.7	Hot Block Digestion	Manganese	7439-96-5	FALSE	FALSE	98	0.1	2.9	mg/kg	TRUE	Dry	1					SC
Metals ICP (S)	EPA 200.7	Hot Block Digestion	Arsenic	7440-38-2	FALSE	FALSE	6.7	1.3	1.9	mg/kg	TRUE	Dry	1					SC
Metals ICP (S)	EPA 200.7	Hot Block Digestion	Zinc	7440-66-6	FALSE	FALSE	550000	96	1200	mg/kg	TRUE	Dry	100					SC
Metals ICP (S)	EPA 200.7	Hot Block Digestion	Cadmium	7440-43-9	FALSE	FALSE	71	0.1	1.0	mg/kg	TRUE	Dry	1					SC
Metals ICP (S)	EPA 200.7	Hot Block Digestion	Copper	7440-50-8	FALSE	FALSE	120	0.4	5.0	mg/kg	TRUE	Dry	1					SC
Metals ICP (S)	EPA 200.7	Hot Block Digestion	Lead	7439-92-1	FALSE	FALSE	1800	0.6	2.0	mg/kg	TRUE	Dry	1					SC
Metals ICP (S)	EPA 200.7	Hot Block Digestion	Manganese	7439-96-5	FALSE	FALSE	16	0.1	3.0	mg/kg	TRUE	Dry	1					SC
Metals ICP (S)	EPA 200.7	Hot Block Digestion	Arsenic	7440-38-2	FALSE	FALSE	3.5	1.4	2.0	mg/kg	TRUE	Dry	1					SC
Metals ICP (S)	EPA 200.7	Hot Block Digestion	Zinc	7440-66-6	FALSE	FALSE	570000	100	1200	mg/kg	TRUE	Dry	100					SC
Metals ICP (S)	EPA 200.7	Hot Block Digestion	Cadmium	7440-43-9	FALSE	FALSE	92	0.1	1.0	mg/kg	TRUE	Dry	1					SC
Metals ICP (S)	EPA 200.7	Hot Block Digestion	Copper	7440-50-8	FALSE	FALSE	8.5	0.4	4.6	mg/kg	TRUE	Dry	1					SC
Metals ICP (S)	EPA 200.7	Hot Block Digestion	Lead	7439-92-1	FALSE	FALSE	1500	0.6	1.9	mg/kg	TRUE	Dry	1					SC
Metals ICP (S)	EPA 200.7	Hot Block Digestion	Manganese	7439-96-5	FALSE	FALSE	7.2	0.09	2.8	mg/kg	TRUE	Dry	1					SC
Metals ICP (S)	EPA 200.7	Hot Block Digestion	Arsenic	7440-38-2	FALSE	FALSE	U	1.3	1.9	mg/kg	TRUE	Dry	1					SC
Metals ICP (S)	EPA 200.7	Hot Block Digestion	Zinc	7440-66-6	FALSE	FALSE	580000	93	1100	mg/kg	TRUE	Dry	100					SC
Metals ICP (S)	EPA 200.7	Hot Block Digestion	Cadmium	7440-43-9	FALSE	FALSE	21	0.09	0.9	mg/kg	TRUE	Dry	1					SC
Metals ICP (S)	EPA 200.7	Hot Block Digestion	Copper	7440-50-8	FALSE	FALSE	730	0.4	4.4	mg/kg	TRUE	Dry	1					SC
Metals ICP (S)	EPA 200.7	Hot Block Digestion	Lead	7439-92-1	FALSE	FALSE	15000	0.5	1.8	mg/kg	TRUE	Dry	1					SC
Metals ICP (S)	EPA 200.7	Hot Block Digestion	Manganese	7439-96-5	FALSE	FALSE	660	0.09	2.6	mg/kg	TRUE	Dry	1					SC
Metals ICP (S)	EPA 200.7	Hot Block Digestion	Arsenic	7440-38-2	FALSE	FALSE	37	1.2	1.8	mg/kg	TRUE	Dry	1					SC
Metals ICP (S)	EPA 200.7	Hot Block Digestion	Zinc	7440-66-6	FALSE	FALSE	380000	88	1100	mg/kg	TRUE	Dry	100					SC
Metals ICP (S)	EPA 200.7	Hot Block Digestion	Cadmium	7440-43-9	FALSE	FALSE	220	0.09	0.9	mg/kg	TRUE	Dry	1					SC
Metals ICP (S)	EPA 200.7	Hot Block Digestion	Copper	7440-50-8	FALSE	FALSE	2000	0.4	4.9	mg/kg	TRUE	Dry	1					SC
Metals ICP (S)	EPA 200.7	Hot Block Digestion	Lead	7439-92-1	FALSE	FALSE	53000	0.6	2.0	mg/kg	TRUE	Dry	1					SC
Metals ICP (S)	EPA 200.7	Hot Block Digestion	Manganese	7439-96-5	FALSE	FALSE	150	0.1	3.0	mg/kg	TRUE	Dry	1					SC
Metals ICP (S)	EPA 200.7	Hot Block Digestion	Arsenic	7440-38-2	FALSE	FALSE	83	1.4	2.0	mg/kg	TRUE	Dry	1					SC
Metals ICP (S)	EPA 200.7	Hot Block Digestion	Zinc	7440-66-6	FALSE	FALSE	520000	99	1200	mg/kg	TRUE	Dry	100					SC
Metals ICP (S)	EPA 200.7	Hot Block Digestion	Cadmium	7440-43-9	FALSE	FALSE	930	0.1	1.0	mg/kg	TRUE	Dry	1					SC
Metals ICP (S)	EPA 200.7	Hot Block Digestion	Copper	7440-50-8	FALSE	FALSE	6.7	0.4	5.0	mg/kg	TRUE	Dry	1					SC
Metals ICP (S)	EPA 200.7	Hot Block Digestion	Lead	7439-92-1	FALSE	FALSE	140	0.6	2.0	mg/kg	TRUE	Dry	1					SC
Metals ICP (S)	EPA 200.7	Hot Block Digestion	Manganese	7439-96-5	FALSE	FALSE	180	0.1	3.0	mg/kg	TRUE	Dry	1					SC
Metals ICP (S)	EPA 200.7	Hot Block Digestion	Arsenic	7440-38-2	FALSE	FALSE	2.2	1.4	2.0	mg/kg	TRUE	Dry	1					SC
Metals ICP (S)	EPA 200.7	Hot Block Digestion	Zinc	7440-66-6	FALSE	FALSE	23000	100	1200	mg/kg	TRUE	Dry	100					SC
Metals ICP (S)	EPA 200.7	Hot Block Digestion	Cadmium	7440-43-9	FALSE	FALSE	11	0.1	1.0	mg/kg	TRUE	Dry	1					SC
Metals ICP (S)	EPA 200.7	Hot Block Digestion	Copper	7440-50-8	FALSE	FALSE	59	0.4	4.9	mg/kg	TRUE	Dry	1					SC

Metals ICP (S)	EPA 200.7	Hot Block Digestion	Lead	7439-92-1	FALSE	FALSE	630	0.6	2.0	mg/kg	TRUE	Dry	1					SC
Metals ICP (S)	EPA 200.7	Hot Block Digestion	Manganese	7439-96-5	FALSE	FALSE	74	0.1	2.9	mg/kg	TRUE	Dry	1					SC
Metals ICP (S)	EPA 200.7	Hot Block Digestion	Arsenic	7440-38-2	FALSE	FALSE	5.2	1.4	2.0	mg/kg	TRUE	Dry	1					SC
Metals ICP (S)	EPA 200.7	Hot Block Digestion	Zinc	7440-66-6	FALSE	FALSE	580000	98	1200	mg/kg	TRUE	Dry	100					SC
Metals ICP (S)	EPA 200.7	Hot Block Digestion	Cadmium	7440-43-9	FALSE	FALSE	38	0.1	1.0	mg/kg	TRUE	Dry	1					SC
Metals ICP (S)	EPA 200.7	Hot Block Digestion	Copper	7440-50-8	FALSE	FALSE	1000	0.4	4.7	mg/kg	TRUE	Dry	1					SC
Metals ICP (S)	EPA 200.7	Hot Block Digestion	Lead	7439-92-1	FALSE	FALSE	370	0.6	1.9	mg/kg	TRUE	Dry	1					SC
Metals ICP (S)	EPA 200.7	Hot Block Digestion	Manganese	7439-96-5	FALSE	FALSE	570	0.09	2.8	mg/kg	TRUE	Dry	1					SC
Metals ICP (S)	EPA 200.7	Hot Block Digestion	Arsenic	7440-38-2	FALSE	FALSE	21	1.3	1.9	mg/kg	TRUE	Dry	1					SC
Metals ICP (S)	EPA 200.7	Hot Block Digestion	Zinc	7440-66-6	FALSE	FALSE	170000	95	1100	mg/kg	TRUE	Dry	100					SC
Metals ICP (S)	EPA 200.7	Hot Block Digestion	Cadmium	7440-43-9	FALSE	FALSE	37	0.09	0.9	mg/kg	TRUE	Dry	1					SC
Metals ICP (S)	EPA 200.7	Hot Block Digestion	Copper	7440-50-8	FALSE	FALSE	41	0.4	5.0	mg/kg	TRUE	Dry	1					SC
Metals ICP (S)	EPA 200.7	Hot Block Digestion	Lead	7439-92-1	FALSE	FALSE	200	0.6	2.0	mg/kg	TRUE	Dry	1					SC
Metals ICP (S)	EPA 200.7	Hot Block Digestion	Manganese	7439-96-5	FALSE	FALSE	380	0.1	3.0	mg/kg	TRUE	Dry	1					SC
Metals ICP (S)	EPA 200.7	Hot Block Digestion	Arsenic	7440-38-2	FALSE	FALSE	2.1	1.4	2.0	mg/kg	TRUE	Dry	1					SC
Metals ICP (S)	EPA 200.7	Hot Block Digestion	Zinc	7440-66-6	FALSE	FALSE	32000	100	1200	mg/kg	TRUE	Dry	100					SC
Metals ICP (S)	EPA 200.7	Hot Block Digestion	Cadmium	7440-43-9	FALSE	FALSE	96	0.1	1.0	mg/kg	TRUE	Dry	1					SC
Metals ICP (S)	EPA 200.7	Hot Block Digestion	Copper	7440-50-8	FALSE	FALSE	11	0.4	4.7	mg/kg	TRUE	Dry	1					SC
Metals ICP (S)	EPA 200.7	Hot Block Digestion	Lead	7439-92-1	FALSE	FALSE	240	0.6	1.9	mg/kg	TRUE	Dry	1					SC
Metals ICP (S)	EPA 200.7	Hot Block Digestion	Manganese	7439-96-5	FALSE	FALSE	150	0.09	2.8	mg/kg	TRUE	Dry	1					SC
Metals ICP (S)	EPA 200.7	Hot Block Digestion	Arsenic	7440-38-2	FALSE	FALSE	2.3	1.3	1.9	mg/kg	TRUE	Dry	1					SC
Metals ICP (S)	EPA 200.7	Hot Block Digestion	Zinc	7440-66-6	FALSE	FALSE	2500	0.9	11	mg/kg	TRUE	Dry	1					SC
Metals ICP (S)	EPA 200.7	Hot Block Digestion	Cadmium	7440-43-9	FALSE	FALSE	3.1	0.09	0.9	mg/kg	TRUE	Dry	1					SC
Metals ICP (S)	EPA 200.7	Hot Block Digestion	Copper	7440-50-8	FALSE	FALSE	20	0.4	4.7	mg/kg	TRUE	Dry	1					SC
Metals ICP (S)	EPA 200.7	Hot Block Digestion	Lead	7439-92-1	FALSE	FALSE	94	0.6	1.9	mg/kg	TRUE	Dry	1					SC
Metals ICP (S)	EPA 200.7	Hot Block Digestion	Manganese	7439-96-5	FALSE	FALSE	130	0.09	2.8	mg/kg	TRUE	Dry	1					SC
Metals ICP (S)	EPA 200.7	Hot Block Digestion	Arsenic	7440-38-2	FALSE	FALSE	3.7	1.3	1.9	mg/kg	TRUE	Dry	1					SC
Metals ICP (S)	EPA 200.7	Hot Block Digestion	Zinc	7440-66-6	FALSE	FALSE	3800	0.9	11	mg/kg	TRUE	Dry	1					SC
Metals ICP (S)	EPA 200.7	Hot Block Digestion	Cadmium	7440-43-9	FALSE	FALSE	3.5	0.09	0.9	mg/kg	TRUE	Dry	1					SC
Metals ICP (S)	EPA 200.7	Hot Block Digestion	Copper	7440-50-8	FALSE	FALSE	59	0.4	4.9	mg/kg	TRUE	Dry	1					SC
Metals ICP (S)	EPA 200.7	Hot Block Digestion	Lead	7439-92-1	FALSE	FALSE	1100	0.6	1.9	mg/kg	TRUE	Dry	1					SC
Metals ICP (S)	EPA 200.7	Hot Block Digestion	Manganese	7439-96-5	FALSE	FALSE	760	0.1	2.9	mg/kg	TRUE	Dry	1					SC
Metals ICP (S)	EPA 200.7	Hot Block Digestion	Arsenic	7440-38-2	FALSE	FALSE	14	1.4	1.9	mg/kg	TRUE	Dry	1					SC
Metals ICP (S)	EPA 200.7	Hot Block Digestion	Zinc	7440-66-6	FALSE	FALSE	21000	97	1200	mg/kg	TRUE	Dry	100					SC
Metals ICP (S)	EPA 200.7	Hot Block Digestion	Cadmium	7440-43-9	FALSE	FALSE	21	0.1	1.0	mg/kg	TRUE	Dry	1					SC
Metals ICP (S)	EPA 200.7	Hot Block Digestion	Copper	7440-50-8	FALSE	FALSE	340	0.4	5.0	mg/kg	TRUE	Dry	1					SC
Metals ICP (S)	EPA 200.7	Hot Block Digestion	Lead	7439-92-1	FALSE	FALSE	350	0.6	2.0	mg/kg	TRUE	Dry	1					SC
Metals ICP (S)	EPA 200.7	Hot Block Digestion	Manganese	7439-96-5	FALSE	FALSE	420	0.1	3.0	mg/kg	TRUE	Dry	1					SC
Metals ICP (S)	EPA 200.7	Hot Block Digestion	Arsenic	7440-38-2	FALSE	FALSE	2.0	1.4	2.0	mg/kg	TRUE	Dry	1					SC
Metals ICP (S)	EPA 200.7	Hot Block Digestion	Zinc	7440-66-6	FALSE	FALSE	60000	100	1200	mg/kg	TRUE	Dry	100					SC
Metals ICP (S)	EPA 200.7	Hot Block Digestion	Cadmium	7440-43-9	FALSE	FALSE	6.1	0.1	1.0	mg/kg	TRUE	Dry	1					SC
Metals ICP (S)	EPA 200.7	Hot Block Digestion	Copper	7440-50-8	FALSE	FALSE	55	0.4	4.9	mg/kg	TRUE	Dry	1					SC
Metals ICP (S)	EPA 200.7	Hot Block Digestion	Lead	7439-92-1	FALSE	FALSE	110	0.6	2.0	mg/kg	TRUE	Dry	1					SC
Metals ICP (S)	EPA 200.7	Hot Block Digestion	Manganese	7439-96-5	FALSE	FALSE	390	0.1	3.0	mg/kg	TRUE	Dry	1					SC
Metals ICP (S)	EPA 200.7	Hot Block Digestion	Arsenic	7440-38-2	FALSE	FALSE	1.5	1.4	2.0	mg/kg	TRUE	Dry	1					SC
Metals ICP (S)	EPA 200.7	Hot Block Digestion	Zinc	7440-66-6	FALSE	FALSE	8300	1.0	12	mg/kg	TRUE	Dry	1					SC
Metals ICP (S)	EPA 200.7	Hot Block Digestion	Cadmium	7440-43-9	FALSE	FALSE	3.4	0.1	1.0	mg/kg	TRUE	Dry	1					SC
Metals ICP (S)	EPA 200.7	Hot Block Digestion	Copper	7440-50-8	FALSE	FALSE	76	0.4	4.9	mg/kg	TRUE	Dry	1					SC
Metals ICP (S)	EPA 200.7	Hot Block Digestion	Lead	7439-92-1	FALSE	FALSE	2000	0.6	2.0	mg/kg	TRUE	Dry	1					SC
Metals ICP (S)	EPA 200.7	Hot Block Digestion	Manganese	7439-96-5	FALSE	FALSE	550	0.1	2.9	mg/kg	TRUE	Dry	1					SC
Metals ICP (S)	EPA 200.7	Hot Block Digestion	Arsenic	7440-38-2	FALSE	FALSE	4.2	1.4	2.0	mg/kg	TRUE	Dry	1					SC
Metals ICP (S)	EPA 200.7	Hot Block Digestion	Zinc	7440-66-6	FALSE	FALSE	58000	98	1200	mg/kg	TRUE	Dry	100					SC

Metals ICP (S)	EPA 200.7	Hot Block Digestion	Cadmium	7440-43-9	FALSE	FALSE	260	0.1	1.0	mg/kg	TRUE	Dry	1					SC
Metals ICP (S)	EPA 200.7	Hot Block Digestion	Copper	7440-50-8	FALSE	FALSE	56	0.4	4.8	mg/kg	TRUE	Dry	1					SC
Metals ICP (S)	EPA 200.7	Hot Block Digestion	Lead	7439-92-1	FALSE	FALSE	1500	0.6	1.9	mg/kg	TRUE	Dry	1					SC
Metals ICP (S)	EPA 200.7	Hot Block Digestion	Manganese	7439-96-5	FALSE	FALSE	590	0.1	2.9	mg/kg	TRUE	Dry	1					SC
Metals ICP (S)	EPA 200.7	Hot Block Digestion	Arsenic	7440-38-2	FALSE	FALSE	7.3	1.3	1.9	mg/kg	TRUE	Dry	1					SC
Metals ICP (S)	EPA 200.7	Hot Block Digestion	Zinc	7440-66-6	FALSE	FALSE	39000	96	1100	mg/kg	TRUE	Dry	100					SC
Metals ICP (S)	EPA 200.7	Hot Block Digestion	Cadmium	7440-43-9	FALSE	FALSE	460	0.1	1.0	mg/kg	TRUE	Dry	1					SC
Metals ICP (S)	EPA 200.7	Hot Block Digestion	Copper	7440-50-8	FALSE	FALSE	340	0.4	4.4	mg/kg	TRUE	Dry	1					SC
Metals ICP (S)	EPA 200.7	Hot Block Digestion	Lead	7439-92-1	FALSE	FALSE	830	0.5	1.8	mg/kg	TRUE	Dry	1					SC
Metals ICP (S)	EPA 200.7	Hot Block Digestion	Manganese	7439-96-5	FALSE	FALSE	570	0.09	2.6	mg/kg	TRUE	Dry	1					SC
Metals ICP (S)	EPA 200.7	Hot Block Digestion	Arsenic	7440-38-2	FALSE	FALSE	9.8	1.2	1.8	mg/kg	TRUE	Dry	1					SC
Metals ICP (S)	EPA 200.7	Hot Block Digestion	Zinc	7440-66-6	FALSE	FALSE	450000	88	1100	mg/kg	TRUE	Dry	100					SC
Metals ICP (S)	EPA 200.7	Hot Block Digestion	Cadmium	7440-43-9	FALSE	FALSE	450	0.09	0.9	mg/kg	TRUE	Dry	1					SC
Metals ICP (S)	EPA 200.7	Hot Block Digestion	Copper	7440-50-8	FALSE	FALSE	3.0	0.4	4.9	mg/kg	TRUE	Dry	1					SC
Metals ICP (S)	EPA 200.7	Hot Block Digestion	Lead	7439-92-1	FALSE	FALSE	48	0.6	2.0	mg/kg	TRUE	Dry	1					SC
Metals ICP (S)	EPA 200.7	Hot Block Digestion	Manganese	7439-96-5	FALSE	FALSE	160	0.1	3.0	mg/kg	TRUE	Dry	1					SC
Metals ICP (S)	EPA 200.7	Hot Block Digestion	Arsenic	7440-38-2	FALSE	FALSE	1.9	1.4	2.0	mg/kg	TRUE	Dry	1					SC
Metals ICP (S)	EPA 200.7	Hot Block Digestion	Zinc	7440-66-6	FALSE	FALSE	350	1.0	12	mg/kg	TRUE	Dry	1					SC
Metals ICP (S)	EPA 200.7	Hot Block Digestion	Cadmium	7440-43-9	FALSE	FALSE	1.4	0.1	1.0	mg/kg	TRUE	Dry	1					SC
Metals ICP (S)	EPA 200.7	Hot Block Digestion	Copper	7440-50-8	FALSE	FALSE	180	0.4	4.8	mg/kg	TRUE	Dry	1					SC
Metals ICP (S)	EPA 200.7	Hot Block Digestion	Lead	7439-92-1	FALSE	FALSE	240	0.6	1.9	mg/kg	TRUE	Dry	1					SC
Metals ICP (S)	EPA 200.7	Hot Block Digestion	Manganese	7439-96-5	FALSE	FALSE	850	0.1	2.9	mg/kg	TRUE	Dry	1					SC
Metals ICP (S)	EPA 200.7	Hot Block Digestion	Arsenic	7440-38-2	FALSE	FALSE	9.0	1.4	1.9	mg/kg	TRUE	Dry	1					SC
Metals ICP (S)	EPA 200.7	Hot Block Digestion	Zinc	7440-66-6	FALSE	FALSE	5500	1.0	12	mg/kg	TRUE	Dry	1					SC
Metals ICP (S)	EPA 200.7	Hot Block Digestion	Cadmium	7440-43-9	FALSE	FALSE	4.5	0.1	1.0	mg/kg	TRUE	Dry	1					SC
Metals ICP (S)	EPA 200.7	Hot Block Digestion	Copper	7440-50-8	FALSE	FALSE	11	0.4	4.9	mg/kg	TRUE	Dry	1					SC
Metals ICP (S)	EPA 200.7	Hot Block Digestion	Lead	7439-92-1	FALSE	FALSE	2.4	0.6	2.0	mg/kg	TRUE	Dry	1					SC
Metals ICP (S)	EPA 200.7	Hot Block Digestion	Manganese	7439-96-5	FALSE	FALSE	290	0.1	3.0	mg/kg	TRUE	Dry	1					SC
Metals ICP (S)	EPA 200.7	Hot Block Digestion	Arsenic	7440-38-2	FALSE	FALSE	3.1	1.4	2.0	mg/kg	TRUE	Dry	1					SC
Metals ICP (S)	EPA 200.7	Hot Block Digestion	Zinc	7440-66-6	FALSE	FALSE	79	1.0	12	mg/kg	TRUE	Dry	1					SC
Metals ICP (S)	EPA 200.7	Hot Block Digestion	Cadmium	7440-43-9	FALSE	FALSE	0.2	0.1	1.0	mg/kg	TRUE	Dry	1					SC
Metals ICP (S)	EPA 200.7	Hot Block Digestion	Copper	7440-50-8	FALSE	FALSE	6.6	0.3	4.0	mg/kg	TRUE	Dry	1					SC
Metals ICP (S)	EPA 200.7	Hot Block Digestion	Lead	7439-92-1	FALSE	FALSE	21	0.5	1.6	mg/kg	TRUE	Dry	1					SC
Metals ICP (S)	EPA 200.7	Hot Block Digestion	Manganese	7439-96-5	FALSE	FALSE	100	0.08	2.4	mg/kg	TRUE	Dry	1					SC
Metals ICP (S)	EPA 200.7	Hot Block Digestion	Arsenic	7440-38-2	FALSE	FALSE	2.8	1.1	1.6	mg/kg	TRUE	Dry	1					SC
Metals ICP (S)	EPA 200.7	Hot Block Digestion	Zinc	7440-66-6	FALSE	FALSE	1100	0.8	9.5	mg/kg	TRUE	Dry	1					SC
Metals ICP (S)	EPA 200.7	Hot Block Digestion	Cadmium	7440-43-9	FALSE	FALSE	1.1	0.08	0.8	mg/kg	TRUE	Dry	1					SC
Metals ICP (S)	EPA 200.7	Hot Block Digestion	Copper	7440-50-8	FALSE	FALSE	35	0.4	5.0	mg/kg	TRUE	Dry	1					SC
Metals ICP (S)	EPA 200.7	Hot Block Digestion	Lead	7439-92-1	FALSE	FALSE	1100	0.6	2.0	mg/kg	TRUE	Dry	1					SC
Metals ICP (S)	EPA 200.7	Hot Block Digestion	Manganese	7439-96-5	FALSE	FALSE	150	0.1	3.0	mg/kg	TRUE	Dry	1					SC
Metals ICP (S)	EPA 200.7	Hot Block Digestion	Arsenic	7440-38-2	FALSE	FALSE	3.4	1.4	2.0	mg/kg	TRUE	Dry	1					SC
Metals ICP (S)	EPA 200.7	Hot Block Digestion	Zinc	7440-66-6	FALSE	FALSE	3300	1.0	12	mg/kg	TRUE	Dry	1					SC
Metals ICP (S)	EPA 200.7	Hot Block Digestion	Cadmium	7440-43-9	FALSE	FALSE	9.3	0.1	1.0	mg/kg	TRUE	Dry	1					SC
Metals ICP (S)	EPA 200.7	Hot Block Digestion	Copper	7440-50-8	FALSE	FALSE	150	0.4	4.9	mg/kg	TRUE	Dry	1					SC
Metals ICP (S)	EPA 200.7	Hot Block Digestion	Lead	7439-92-1	FALSE	FALSE	190	0.6	2.0	mg/kg	TRUE	Dry	1					SC
Metals ICP (S)	EPA 200.7	Hot Block Digestion	Manganese	7439-96-5	FALSE	FALSE	810	0.1	3.0	mg/kg	TRUE	Dry	1					SC
Metals ICP (S)	EPA 200.7	Hot Block Digestion	Arsenic	7440-38-2	FALSE	FALSE	5.7	1.4	2.0	mg/kg	TRUE	Dry	1					SC
Metals ICP (S)	EPA 200.7	Hot Block Digestion	Zinc	7440-66-6	FALSE	FALSE	140000	99	1200	mg/kg	TRUE	Dry	100					SC
Metals ICP (S)	EPA 200.7	Hot Block Digestion	Cadmium	7440-43-9	FALSE	FALSE	26	0.1	1.0	mg/kg	TRUE	Dry	1					SC
Metals ICP (paint)	EPA 200.7	EPA 3050B	Lead	7439-92-1	FALSE	FALSE	14	0.6	1.9	mg/kg	TRUE	Dry	1					SC
Metals ICP (paint)	EPA 200.7	EPA 3050B	Lead	7439-92-1	FALSE	FALSE	26000	0.6	2.0	mg/kg	TRUE	Dry	1					SC
Metals ICP (paint)	EPA 200.7	EPA 3050B	Lead	7439-92-1	FALSE	FALSE	4200	0.6	2.0	mg/kg	TRUE	Dry	1					SC

Metals ICP (paint)	EPA 200.7	EPA 3050B	Lead	7439-92-1	FALSE	FALSE	26000	0.6	1.9	mg/kg	TRUE	Dry	1					SC
Metals ICP (paint)	EPA 200.7	EPA 3050B	Lead	7439-92-1	FALSE	FALSE	160000	0.6	1.9	mg/kg	TRUE	Dry	1					SC
Metals ICP (paint)	EPA 200.7	EPA 3050B	Lead	7439-92-1	FALSE	FALSE	28000	0.6	1.8	mg/kg	TRUE	Dry	1					SC
Metals ICP (paint)	EPA 200.7	EPA 3050B	Lead	7439-92-1	FALSE	FALSE	660	0.6	2.0	mg/kg	TRUE	Dry	1					SC
Metals ICP (paint)	EPA 200.7	EPA 3050B	Lead	7439-92-1	FALSE	FALSE	2600	0.6	1.9	mg/kg	TRUE	Dry	1					SC
Metals ICP (paint)	EPA 200.7	EPA 3050B	Lead	7439-92-1	FALSE	FALSE	1700	0.6	2.0	mg/kg	TRUE	Dry	1					SC
Metals ICP (paint)	EPA 200.7	EPA 3050B	Lead	7439-92-1	FALSE	FALSE	70000	0.6	2.0	mg/kg	TRUE	Dry	1					SC
Metals ICP (paint)	EPA 200.7	EPA 3050B	Lead	7439-92-1	FALSE	FALSE	160	0.6	1.9	mg/kg	TRUE	Dry	1					SC
Metals ICP (paint)	EPA 200.7	EPA 3050B	Lead	7439-92-1	FALSE	FALSE	400	0.6	2.0	mg/kg	TRUE	Dry	1					SC
Metals ICP (wipe)	Metals004/034	EPA 3050B	Lead	7439-92-1	FALSE	FALSE	13100	0.15	0.50	ug/wipe	TRUE	Dry	1					SC
Metals ICP (wipe)	Metals004/034	EPA 3050B	Lead	7439-92-1	FALSE	FALSE	26200	0.15	0.50	ug/wipe	TRUE	Dry	1					SC
Metals ICP (wipe)	Metals004/034	EPA 3050B	Lead	7439-92-1	FALSE	FALSE	19000	0.15	0.50	ug/wipe	TRUE	Dry	1					SC
Metals ICP (wipe)	Metals004/034	EPA 3050B	Lead	7439-92-1	FALSE	FALSE	1050	0.15	0.50	ug/wipe	TRUE	Dry	1					SC
Metals ICP (wipe)	Metals004/034	EPA 3050B	Lead	7439-92-1	FALSE	FALSE	1550	0.15	0.50	ug/wipe	TRUE	Dry	1					SC
Metals ICP (wipe)	Metals004/034	EPA 3050B	Lead	7439-92-1	FALSE	FALSE	3190	0.15	0.50	ug/wipe	TRUE	Dry	1					SC

PSOLIDS	LNOTE	ANOTE	LATITUDE	LONGITUDE	sComment	SNOTE1	SNOTE2	SNOTE3	SNOTE4	SNOTE5	SNOTE6	SNOTE7	SNOTE8	SNOTE9	SNOTE10	ANALYTEORDER
					10CE30-01											12
					10CE30-01											15
					10CE30-01											17
					10CE30-01											3
					10CE30-01											32
					10CE30-01											7
					10CE30-02											12
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					10CE30-02											17
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USEPA Contract Laboratory Program
Generic Chain of Custody

Reference Case: R
Client No:

Region: 5	Date Shipped: 8/27/2010	**Chain of Custody Record**	Sampler Signature:
Project Code:	Carrier Name: Hand Delivered	Relinquished By (Date / Time)	Received By (Date / Time)
Account Code:	Airbill:	1 Kristen Templin 8/27/10 1000	Jose Aguilera 8/27/10 1001
CERCLIS ID:	Shipped to: EPA Region 5 Central Regional Lab, 536 S. Clark Street, 10th Floor, Chicago IL 60605, (312) 353-9083	2 Jose Aguilera 8/27/10 1000	[illegible] 8/27/1500
Spill ID:		3	
Site Name/State: Eagle Zinc OU1/IL		4	
Project Leader: P. Feeley			
Action:			
Sampling Co: EDI			

SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No./ PRESERVATIVE/ Bottles	STATION LOCATION	SAMPLE COLLECT DATE/TIME	QC Type
10CE30-01	Other (Unknown)/ P. Feeley	L/G	TLead/TCLP (14)	5C-11301 (Not preserved) (1)	R-B-HA3-17	S: 8/24/2010 16:15	--
10CE30-02	Other (Unknown)/ P. Feeley	L/G	TLead/TCLP (14)	5C-11302 (Not preserved) (1)	R-B-HA3-18	S: 8/24/2010 16:20	--
10CE30--03	Other (Unknown)/ Kristen Templin	L/G	TLAAICP (14)	5C11303 (Not preserved) (1)	PC-C-HA11-01	S: 8/24/2010 15:22	--
10CE30-04	Other (Unknown)/ P. Feeley	L/G	TLead/TCLP (14)	5C-11304 (Not preserved) (1)	R-C-HA1-01	S: 8/23/2010 16:01	--
10CE30-05	Other (Unknown)/ P. Feeley	L/G	TLead/TCLP (14)	5C-11305 (Not preserved) (1)	R-C-HA1-02	S: 8/23/2010 15:58	--
10CE30-06	Other (Unknown)/ Kristen Templin	L/G	TLAAICP (14)	5C11306 (Not preserved) (1)	PC-D1-HA21-01	S: 8/24/2010 9:21	--
10CE30-07	Other (Unknown)/ Kristen Templin	L/G	TLAAICP (14)	5C11307 (Not preserved) (1)	PC-D1-HA31-02	S: 8/24/2010 10:40	--
10CE30-08	Other (Unknown)/ P. Feeley	L/G	TLead/TCLP (14)	5C-11308 (Not preserved) (1)	R-D1-HA2-03	S: 8/24/2010 10:08	--
10CE30-09	Other (Unknown)/ P. Feeley	L/G	TLead/TCLP (14)	5C-11309 (Not preserved) (1)	R-D1-HA2-04	S: 8/24/2010 11:15	--
10CE30-10	Other (Unknown)/ Kristen Templin	L/G	TLead/TCLP (14)	5C-11310 (Not preserved) (1)	R-D1-HA2-05	S: 8/24/2010 11:20	--

Shipment for Case Complete? N	Sample(s) to be used for laboratory QC:	Additional Sampler Signature(s):	Chain of Custody Seal Number: 116979 / 116980
Analysis Key:	Concentration: L = Low, M = Low/Medium, H = High	Type/Designate: Composite = C, Grab = G	Shipment Iced? _____

TLAAICP = Total Lead AA or ICP, TLead/TCLP = Total Lead and TCLP Lead

TR Number: 5-325854765-082610-0001

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'R provides preliminary results. Requests for preliminary results will increase analytical costs.

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EPA SEM Contract Laboratory Program
Generic Chain of Custody

Reference Case: R
Client No:

Region: 5	Date Shipped: 8/27/2010	Chain of Custody Record	Sampler Signature:
Project Code:	Carrier Name: Hand Delivered	Relinquished By (Date / Time)	Received By (Date / Time)
Account Code:	Airbill:	1 [illegible] 8/27/10 1000	Fox Aquilina 8/27/10 1001
CERCLIS ID:	Shipped to: EPA Region 5 Central Regional Lab, 536 S. Clark Street, 10th Floor, Chicago IL 60605, (312) 353-9083	2 Fox Aquilina 8/27/10 1500	[illegible] 8/27 1500
Spill ID:		3	
Site Name/State: Eagle Zinc OU1/IL		4	
Project Leader: P Feeley			
Action:			
Sampling Co: EDI			

SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No./ PRESERVATIVE/ Bottles	STATION LOCATION	SAMPLE COLLECT DATE/TIME		QC Type
10CE30-11	Other (Unknown)/ P Feeley	L/G	TLead/TCLP (14)	5C-11311 (Not preserved) (1)	R-D1-HA2-06	S: 8/24/2010	11:25	--
10CE30-12	Other (Unknown)/ P. Feeley	L/G	TLead/TCLP (14)	5C-11312 (Not preserved) (1)	R-D1-HA3-11	S: 8/24/2010	14:00	--
10CE30-13	Other (Unknown)/ P. Feeley	L/G	TLead/TCLP (14)	5C-11313 (Not preserved) (1)	R-D1-HA4-09	S: 8/24/2010	12:10	--
10CE30-14	Other (Unknown)/ P. Feeley	L/G	TLead/TCLP (14)	5C-11314 (Not preserved) (1)	R-D1-HA4-10	S: 8/24/2010	12:15	--
10CE30-15	Other (Unknown)/ P. Feeley	L/G	TLead/TCLP (14)	5C-11315 (Not preserved) (1)	R-D2-HA3-08	S: 8/24/2010	12:00	--
10CE30-16	Other (Unknown)/ P. Feeley	L/G	TLead/TCLP (14)	5C-11316 (Not preserved) (1)	RD-D2-HA3-07	S: 8/24/2010	12:01	--
10CE30-17	Other (Unknown)/ Kristen Templin	L/G	TLAAICP (14)	5C11317 (Not preserved) (1)	PC-G-HA61-01	S: 8/24/2010	15:05	--
10CE30-18	Other (Unknown)/ P. Feeley	L/G	TLead/TCLP (14)	5C-11318 (Not preserved) (1)	R-G-HA4-16	S: 8/24/2010	15:55	--
10CE30-19	Other (Unknown)/ P. Feeley	L/G	TLead/TCLP (14)	5C-11319 (Not preserved) (1)	R-I-HA1-15	S: 8/24/2010	15:45	--
10CE30-20	Other (Unknown)/ Kristen Templin	L/G	TLAAICP (14)	5C11320 (Not preserved) (1)	PC-I3-HA51-01	S: 8/24/2010	14:05	--

Shipment for Case Complete? N	Sample(s) to be used for laboratory QC:	Additional Sampler Signature(s):	Chain of Custody Seal Number: 116979/16980
Analysis Key:	Concentration: L = Low, M = Low/Medium, H = High	Type/Designate: Composite = C, Grab = G	Shipment Iced?

TLAAICP = Total Lead AA or ICP; TLead/TCLP = Total Lead and TCLP Lead

TR Number: 5-325854765-082610-0001

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USEPA Contract Laboratory Program
Generic Chain of Custody

Reference Case: R
Client No:

Region: 5	Date Shipped: 8/27/2010	**Chain of Custody Record**	Sampler Signature: [signature]
Project Code:	Carrier Name: Hand Delivered	Relinquished By (Date / Time)	Received By (Date / Time)
Account Code:	Airbill:	1 [signature] 8/27/10 1000	[signature] 8/27/10 1001
CERCLIS ID:	Shipped to: EPA Region 5 Central Regional Lab, 536 S. Clark Street, 10th Floor, Chicago IL 60605, (312) 353-9083	2 [signature] 8/27/10 1500	[signature] 8/27/10 1500
Spill ID:		3	
Site Name/State: Eagle Zinc OU1/IL		4	
Project Leader: P. Feeley			
Action:			
Sampling Co: EDI			

SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No./ PRESERVATIVE/ Bottles	STATION LOCATION	SAMPLE COLLECT DATE/TIME	QC Type
10CE30-21	Other (Unknown)/ Kristen Templin	L/G	TLAAICP (14)	5C11321 (Not preserved) (1)	PC-J-HA41-01	S: 8/24/2010 11:55	--
10CE30-22	Other (Unknown)/ Kristen Templin	L/G	TLead/TCLP (14)	5C-11322 (Not preserved) (1)	R-J-HA1-12	S: 8/24/2010 15:10	--
10CE30-23	Other (Unknown)/ P. Feeley	L/G	TLead/TCLP (14)	5C-11323 (Not preserved) (1)	R-J-HA4-13	S: 8/24/2010 15:20	--
10CE30-24	Other (Unknown)/ P. Feeley	L/G	TLead/TCLP (14)	5C-11324 (Not preserved) (1)	R-J-HA4-14	S: 8/24/2010 15:25	--
10CE30-25	Other (Unknown)/ Kristen Templin	L/G	TLAAICP (14)	5C11325 (Not preserved) (1)	PC-O-HA81-01	S: 8/24/2010 16:40	--
10CE30-26	Other (Unknown)/ Kristen Templin	L/G	TLAAICP (14)	5C11326 (Not preserved) (1)	PC-P2-HA71-01	S: 8/24/2010 16:00	--
10CE30-27	Other (Unknown)/ Kristen Templin	L/G	TLAAICP (14)	5C11329 (Not preserved) (1)	PC-L1-HA101-01	S: 8/25/2010 10:35	--
10CE30-28	Other (Unknown)/ Kristen Templin	L/G	TLAAICP (14)	5C011327 (Not preserved) (1)	PC-AST-HA119-01	S: 8/25/2010 13:55	--
10CE30-29	Other (Unknown)/ Kristen Templin	L/G	TLAAICP (14)	5C11328 (Not preserved) (1)	PC-M-HA91-01	S: 8/25/2010 9:30	--
10CE30-30	Other (Unknown)/ Kristen Templin	L/G	TLAAICP (14)	5C11330 (Not preserved) (1)	PC-N-HA111-01	S: 8/25/2010 11:35	--

Shipment for Case Complete? N	Sample(s) to be used for laboratory QC:	Additional Sampler Signature(s):	Chain of Custody Seal Number: 116979 / 116980
Analysis Key:	Concentration: L = Low, M = Low/Medium, H = High	Type/Designate: Composite = C, Grab = G	Shipment Iced? _____

TLAAICP = Total Lead AA or ICP, TLead/TCLP = Total Lead and TCLP Lead

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EPA SE[redacted]Con[redacted]t La[redacted]ratory Program
Generic Chain of Custody

Reference Case:
Client No:

R

Region: 5	Date Shipped: 8/27/2010	**Chain of Custody Record**	Sampler Signature: [signature]
Project Code:	Carrier Name: Hand Delivered	Relinquished By (Date / Time)	Received By (Date / Time)
Account Code:	Airbill:	1 [signature] 8/27/10 1000	[signature] 8/27/10 1001
CERCLIS ID:	Shipped to: EPA Region 5 Central Regional Lab, 536 S. Clark Street, 10th Floor, Chicago IL 60605, (312) 353-9083	2 [signature] 8/27/10 1500	[signature] 8/27/10 1500
Spill ID:		3	
Site Name/State: Eagle Zinc OU1/IL		4	
Project Leader: P. Feeley			
Action:			
Sampling Co: EDI			

SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No./ PRESERVATIVE/ Bottles	STATION LOCATION	SAMPLE COLLECT DATE/TIME		QC Type
10CE30-31	Other (Unknown)/ Kristen Templin	L/G	TLead/TCLP (14)	5C-11331 (Not preserved) (1)	R-K-HA3-19	S: 8/25/2010	9:35	--
10CE30-32	Other (Unknown)/ Kristen Templin	L/G	TLead/TCLP (14)	5C-11332 (Not preserved) (1)	RD-L1-HA3-20	S: 8/25/2010	11:26	--
10CE30-33	Other (Unknown)/ Kristen Templin	L/G	TLead/TCLP (14)	5C-11333 (Not preserved) (1)	R-L1-HA3-21	S: 8/25/2010	11:25	--
10CE30-34	Other (Unknown)/ Kristen Templin	L/G	TLead/TCLP (14)	5C-11334 (Not preserved) (1)	R-M-HA3-22	S: 8/25/2010	12:00	--
10CE30-35	Other (Unknown)/ Kristen Templin	L/G	TLead/TCLP (14)	5C-11335 (Not preserved) (1)	R-A-HA4-18	S: 8/26/2010	12:20	--
10CE30-36	Other (Unknown)/ Kristen Templin	L/G	TLead/TCLP (14)	5C-11336 (Not preserved) (1)	R-B-HA4-19	S: 8/26/2010	15:40	--
10CE30-37	Other (Unknown)/ Kristen Templin	L/G	TLead/TCLP (14)	5C-11337 (Not preserved) (1)	R-C-HA2-01	S: 8/26/2010	12:30	--
10CE30-38	Other (Unknown)/ Kristen Templin	L/G	TLead/TCLP (14)	5C-11338 (Not preserved) (1)	R-D1-HA4-21	S: 8/26/2010	15:45	--
10CE30-39	Other (Unknown)/ Kristen Templin	L/G	TLead/TCLP (14)	5C-11339 (Not preserved) (1)	RD-D1-HA4-20	S: 8/26/2010	15:47	--
10CE30-40	Other (Unknown)/ Kristen Templin	L/G	TLead/TCLP (14)	5C-11340 (Not preserved) (1)	W-D1-HA5-01	S: 8/26/2010	12:30	--

Shipment for Case Complete? N	Sample(s) to be used for laboratory QC:	Additional Sampler Signature(s):	Chain of Custody Seal Number: 116979 / 116980
Analysis Key:	Concentration: L = Low, M = Low/Medium, H = High	Type/Designate: Composite = C, Grab = G	Shipment Iced? _____

TLAAICP = Total Lead AA or ICP, TLead/TCLP = Total Lead and TCLP Lead

TR Number: 5-325854765-082610-0001

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USEPA Contract Laboratory Program
Generic Chain of Custody

Reference Case: R
Client No:

Region: 5	Date Shipped: 8/27/2010	Chain of Custody Record	Sampler Signature:
Project Code:	Carrier Name: Hand Delivered	Relinquished By (Date / Time)	Received By (Date / Time)
Account Code:	Airbill:	1 [illegible] 8/27/10 1000	[illegible] 8/27/10 1001
CERCLIS ID:	Shipped to: EPA Region 5 Central Regional Lab, 536 S Clark Street, 10th Floor, Chicago IL 60605, (312) 353-9083	2 [illegible] 8/27/10 1500	[illegible] 8/27 1500
Spill ID:		3	
Site Name/State: Eagle Zinc OU1/IL		4	
Project Leader: P. Feeley			
Action:			
Sampling Co: EDI			

SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No./ PRESERVATIVE/ Bottles	STATION LOCATION	SAMPLE COLLECT DATE/TIME	QC Type
10CE30-41	Other (Unknown)/ Kristen Templin	L/G	TLead/TCLP (14)	5C-11341 (Not preserved) (1)	W-D1-HA5-02	S: 8/26/2010 12:41	--
10CE30-42	Other (Unknown)/ Kristen Templin	L/G	TLead/TCLP (14)	5C-11342 (Not preserved) (1)	W-D1-HA5-03	S: 8/26/2010 12:48	--
10CE30-43	Other (Unknown)/ Kristen Templin	L/G	TLead/TCLP (14)	5C-11343 (Not preserved) (1)	R-G-HA4-22	S 8/26/2010 16:00	--
10CE30-44	Other (Unknown)/ Kristen Templin	L/G	TLead/TCLP (14)	5C-11344 (Not preserved) (1)	W-G-HA5-05	S: 8/26/2010 13:21	--
10CE30-45	Other (Unknown)/ Kristen Templin	L/G	TLead/TCLP (14)	5C-11345 (Not preserved) (1)	W-G-HA5-06	S: 8/26/2010 13:10	--
10CE30-46	Other (Unknown)/ Kristen Templin	L/G	TLead/TCLP (14)	5C-11346 (Not preserved) (1)	W-J-HA5-04	S: 8/26/2010 12:55	--
10CE30-47	Other (Unknown)/ Kristen Templin	L/G	TLead/TCLP (14)	5C-11347 (Not preserved) (1)	R-M-HA3-24	S: 8/26/2010 14:10	--
10CE30-48	Other (Unknown)/ Kristen Templin	L/G	TLead/TCLP (14)	5C-11348 (Not preserved) (1)	R-M-HA4-23	S: 8/26/2010 16:15	--
10CE30-49	Other (Unknown)/ Kristen Templin	L/G	TLead/TCLP (14)	5C-11349 (Not preserved) (1)	R-N-HA2-02	S: 8/26/2010 12:40	--
10CE30-50	Other (Unknown)/ Kristen Templin	L/G	TLead/TCLP (14)	5C-11350 (Not preserved) (1)	R-P1-HA3-22	S: 8/26/2010 11:55	--

Shipment for Case Complete? N	Sample(s) to be used for laboratory QC:	Additional Sampler Signature(s):	Chain of Custody Seal Number: 116979 / 116980
Analysis Key:	Concentration: L = Low, M = Low/Medium, H = High	Type/Designate: Composite = C, Grab = G	Shipment Iced?

TLAAICP = Total Lead AA or ICP, TLead/TCLP = Total Lead and TCLP Lead

TR Number: 5-325854765-082610-0001

REGION COPY

'R provides preliminary results. Requests for preliminary results will increase analytical costs.

Send Copy to: Sample Management Office, 15000 Conference Center Dr., Chantilly, VA, 20151-3819 Phone 703/818-4200; Fax 703/818-4602

USEPA Contract Laboratory Program
Generic Chain of Custody

Reference Case: R
Client No:

Region: 5	Date Shipped: 8/27/2010	**Chain of Custody Record**	Sampler Signature:
Project Code:	Carrier Name: Hand Delivered	Relinquished By (Date / Time)	Received By (Date / Time)
Account Code:	Airbill:	1 8/27/10 1000	8/27/10 1000
CERCLIS ID:	Shipped to: EPA Region 5 Central Regional Lab, 536 S. Clark Street, 10th Floor, Chicago IL 60605, (312) 353-9083	2 8/27/10 1500	8/27 1500
Spill ID:		3	
Site Name/State: Eagle Zinc OU1/IL		4	
Project Leader: P Feeley			
Action:			
Sampling Co: EDI			

SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No./ PRESERVATIVE/ Bottles	STATION LOCATION	SAMPLE COLLECT DATE/TIME		QC Type
10CE30-51	Other (Unknown)/ Kristen Templin	L/G	TLead/TCLP (14)	5C-11351 (Not preserved) (1)	R-P1-HA3-23	S: 8/26/2010	14:20	--
10CE30-52	Other (Unknown)/ Kristen Templin	L/G	TLead/TCLP (14)	5C-11352 (Not preserved) (1)	R-CS-HA1-16	S: 8/26/2010	13:35	--

Shipment for Case Complete? N	Sample(s) to be used for laboratory QC:	Additional Sampler Signature(s):	Chain of Custody Seal Number: 116979 / 116980
Analysis Key:	Concentration: L = Low, M = Low/Medium, H = High	Type/Designate: Composite = C, Grab = G	Shipment Iced?

TLAA/ICP = Total Lead AA or ICP; TLead/TCLP = Total Lead and TCLP Lead

TR Number: 5-325854765-082610-0001

REGION COPY

'R provides preliminary results. Requests for preliminary results will increase analytical costs.

Send Copy to: Sample Management Office, 15000 Conference Center Dr., Chantilly, VA 20151-3819 Phone 703/818-4200; Fax 703/818-4602

EAGLE ZINC OU1
HILLSBORO, ILLINOIS

RESIDUAL SAMPLE LOG			
Sample Number	Material Description	Sample Location	Total Lead in ug/wipe
W-D1-HA5-01	concrete	Building D1 - north	13100
W-D1-HA5-02	concrete	Building D1 - south	26200
W-D1-HA5-03	wood	Building D1 - south wood shelves	19000
W-G-HA5-05	concrete	Building G - central	1050
W-G-HA5-06	wood	Building G - center wood joist	1550
W-J-HA5-04	concrete	Building J - east center	3190

Appendix B
Photo Log.

Photo 1: Interior of concrete portion of Building A (looking west)

Photo 2: Exterior of brick portion Building B (looking northwest)

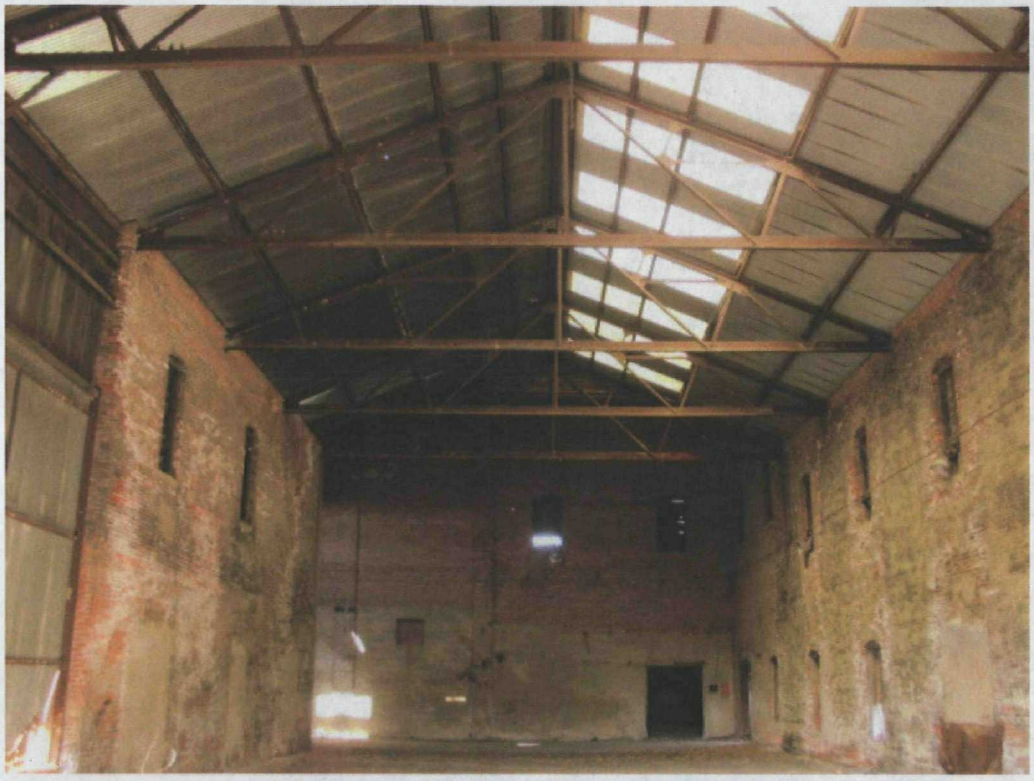

Photo 3: Interior of brick portion Building B (looking west)

Photo 4: Exterior of Building C (looking southeast)

Photo 5: Interior of Building C (looking east)

Photo 6: Exterior of Building D (looking south east)

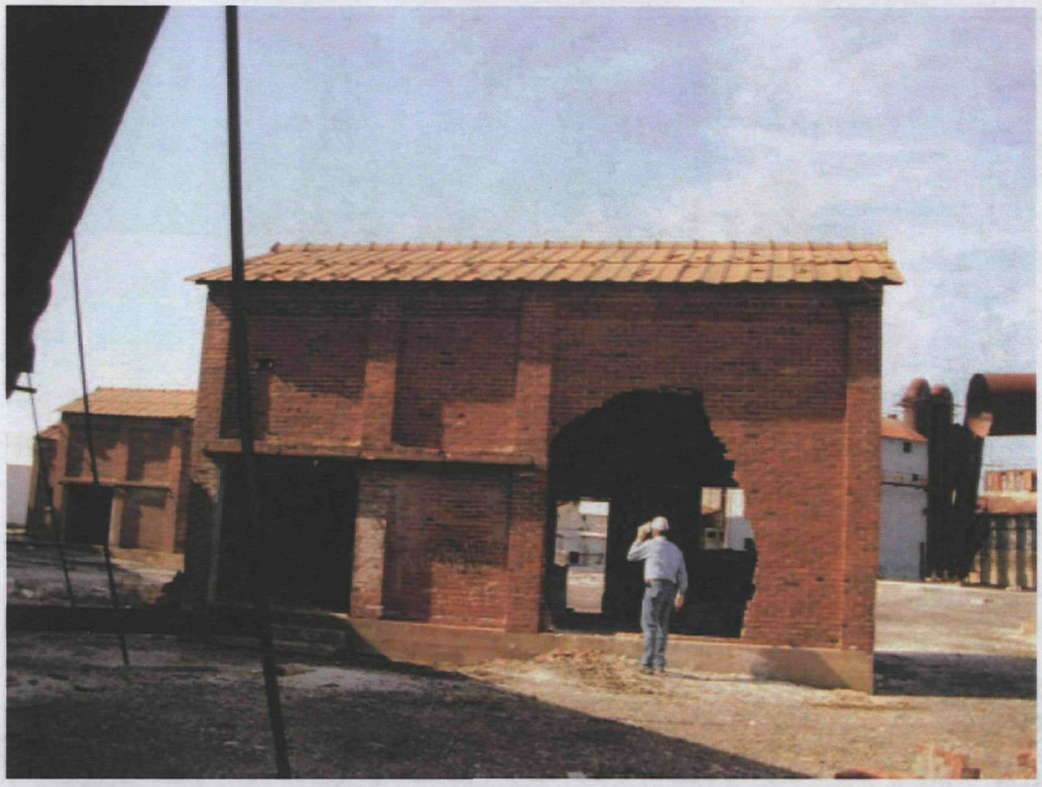

Photo 7: Exterior of small sheds in Building D area (looking south).

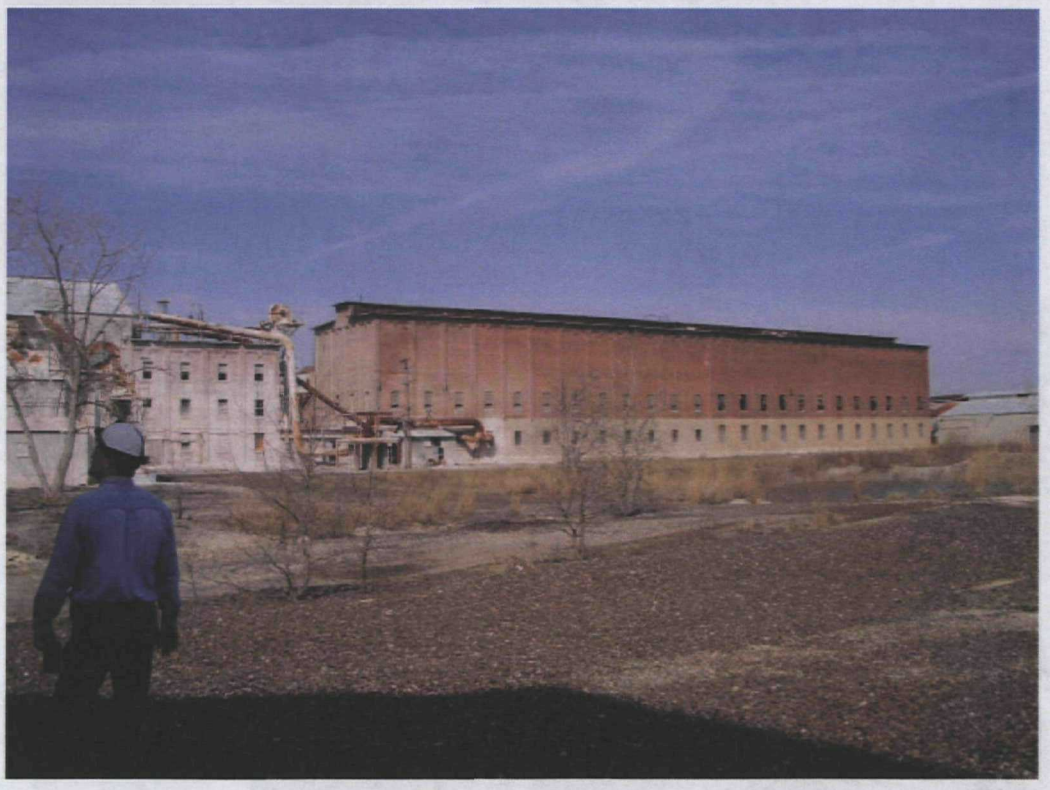

Photo 8: Exterior of Building D (looking west)

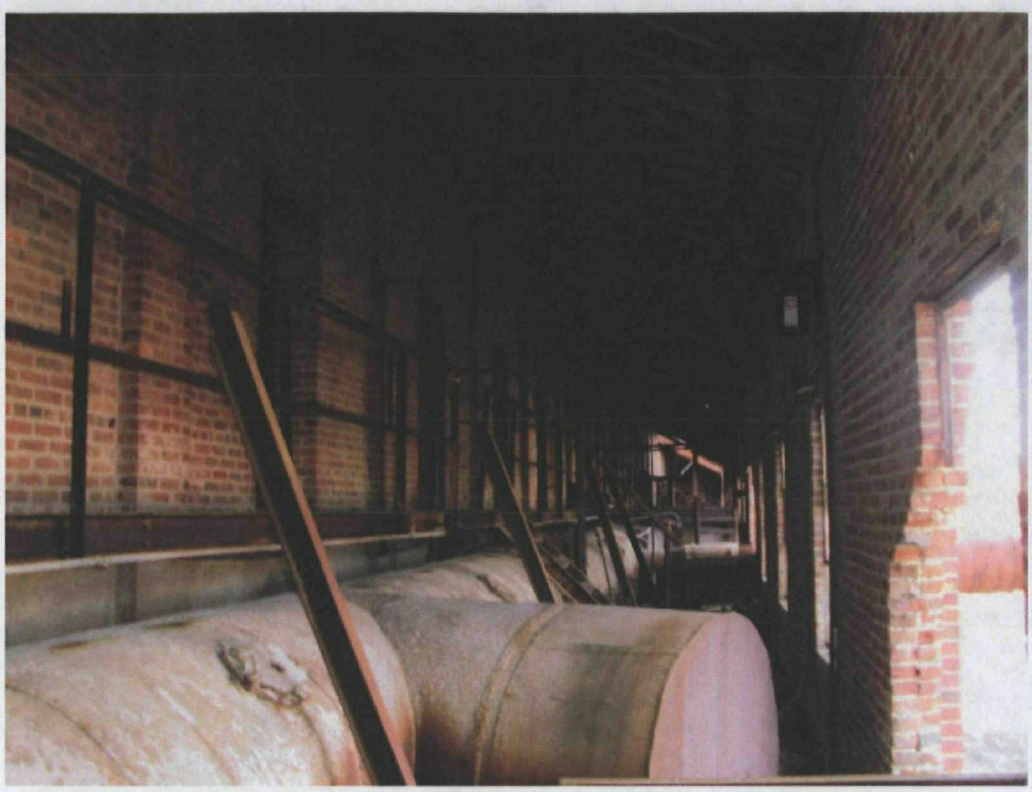

Photo 9: Interior of Building D (looking south)

Photo 10: Interior of Building D (underneath Photo 9 looking south)

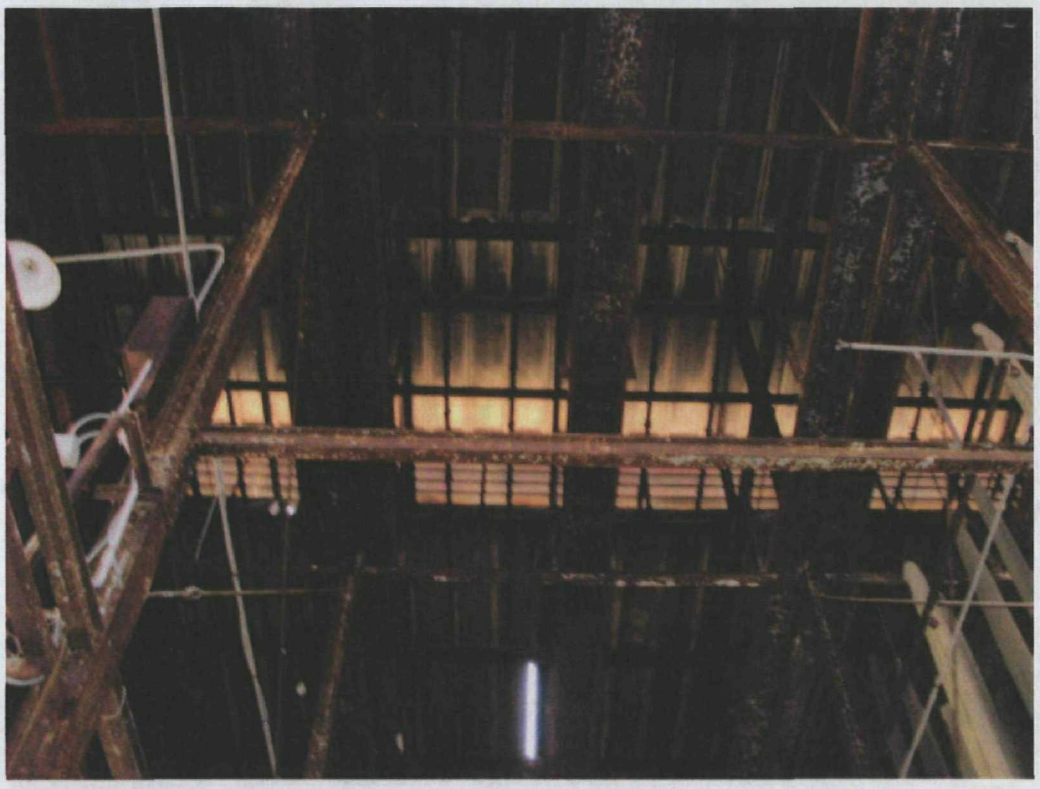

Photo 11: Structural steel within Building D

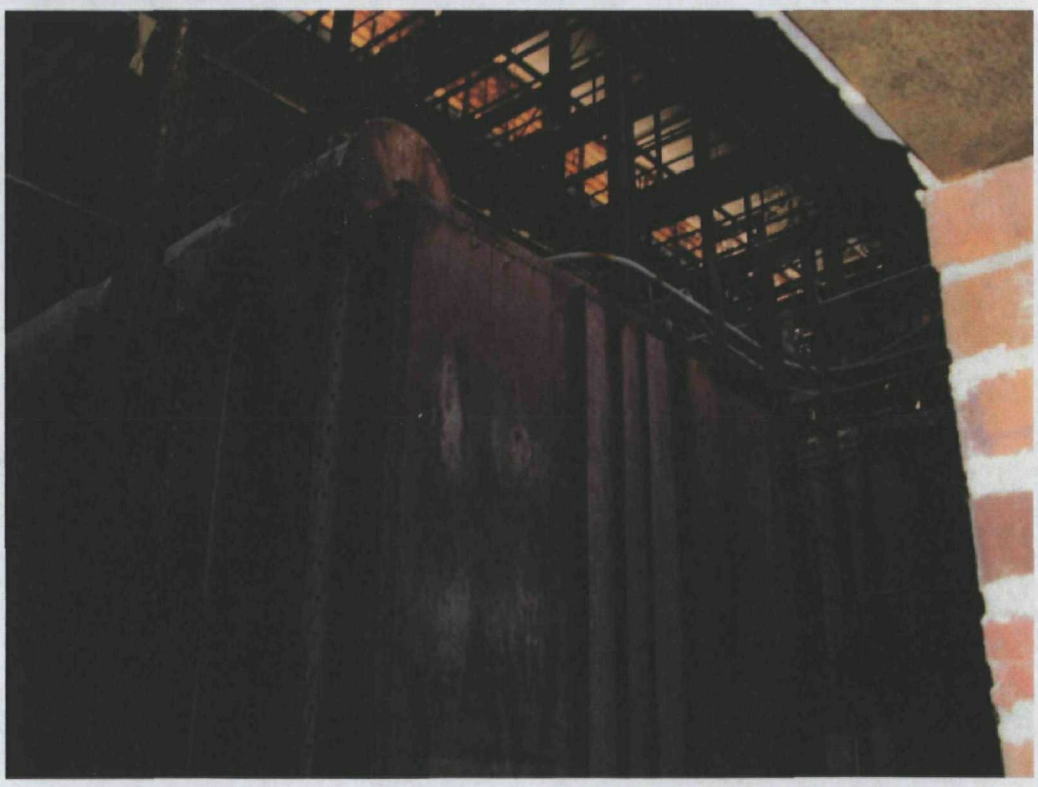

Photo 12: Equipment within Building D

Photo 13: Exterior of north-west wing of Building D (looking south)

Photo 14: Exterior of north-west wing of Building D (looking south-west)

Photo 15: Interior of north-west wing of Building D

Photo 16: Interior of north-west wing of Building D (looking west)

Photo 17: Interior of north-west wing of Building D (looking east)

Photo 18: Equipment in southern part of north-west wing of Building D

Photo 19: Exterior of north-west wing of Building D (looking west)

Photo 20: Exterior of Building E (looking northeast)

Photo 21: Exterior of Building E (looking northeast)

Photo 22: Exterior of Building E (looking west)

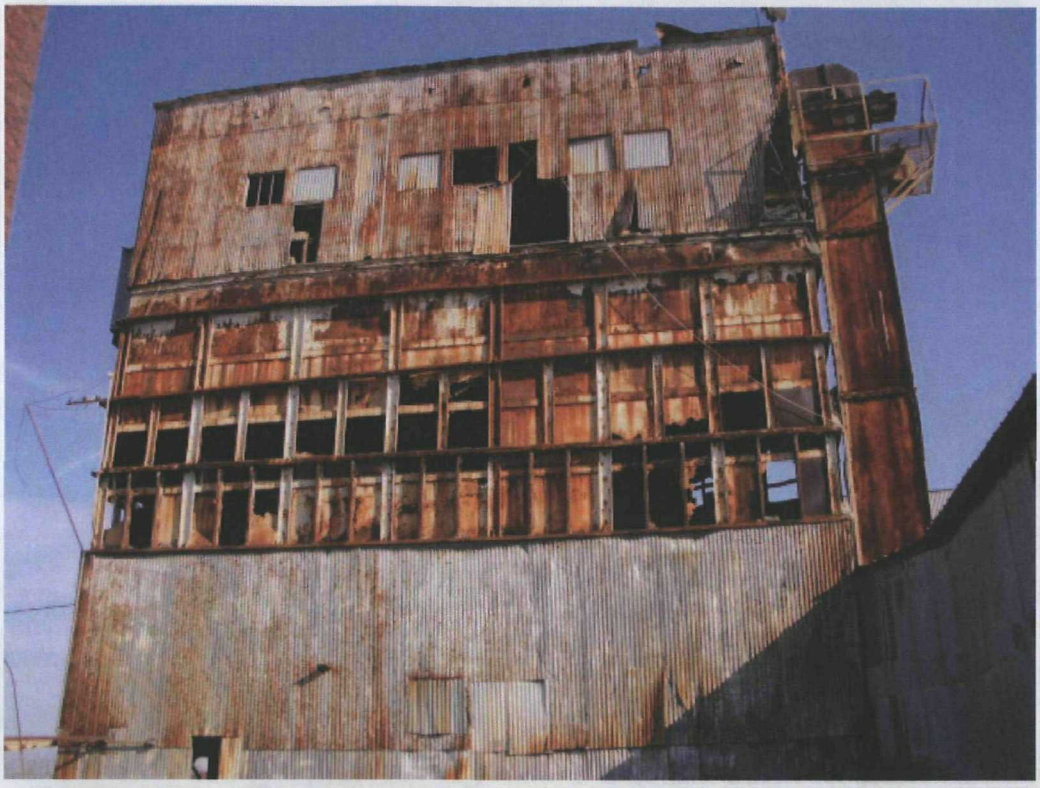

Photo 23: Exterior of Building E (looking north)

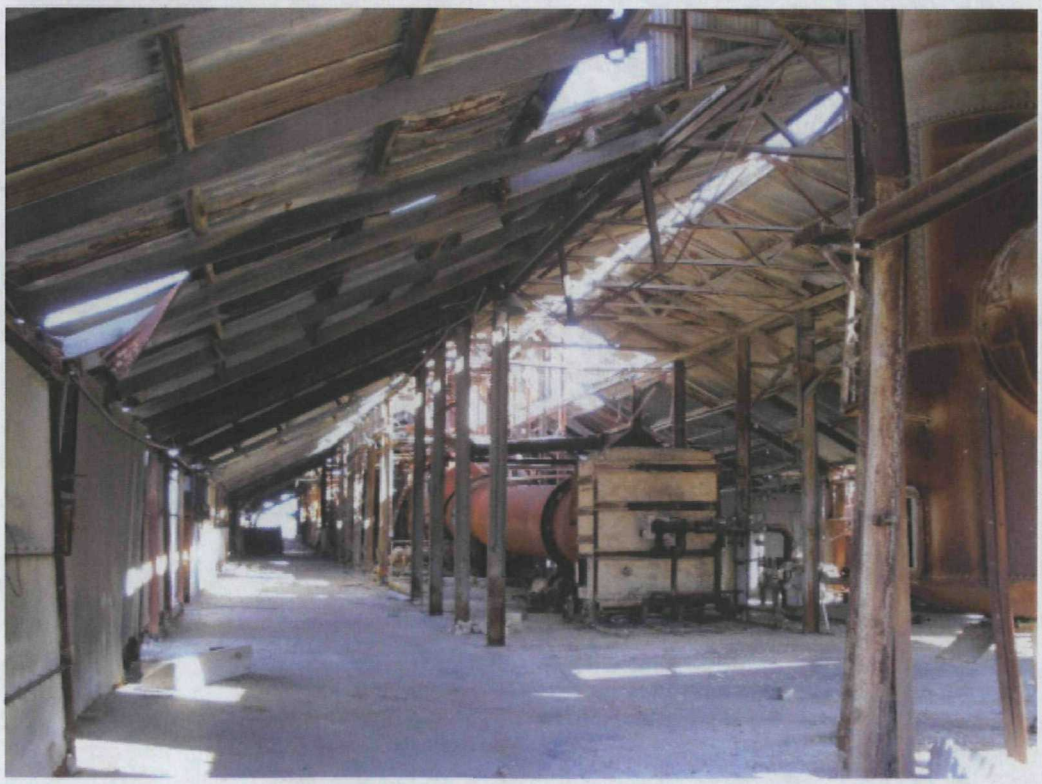

Photo 24: Interior of Building E (looking north)

Photo 25: Interior of Building E (looking north)

Photo 26: Exterior of Building F (looking north)

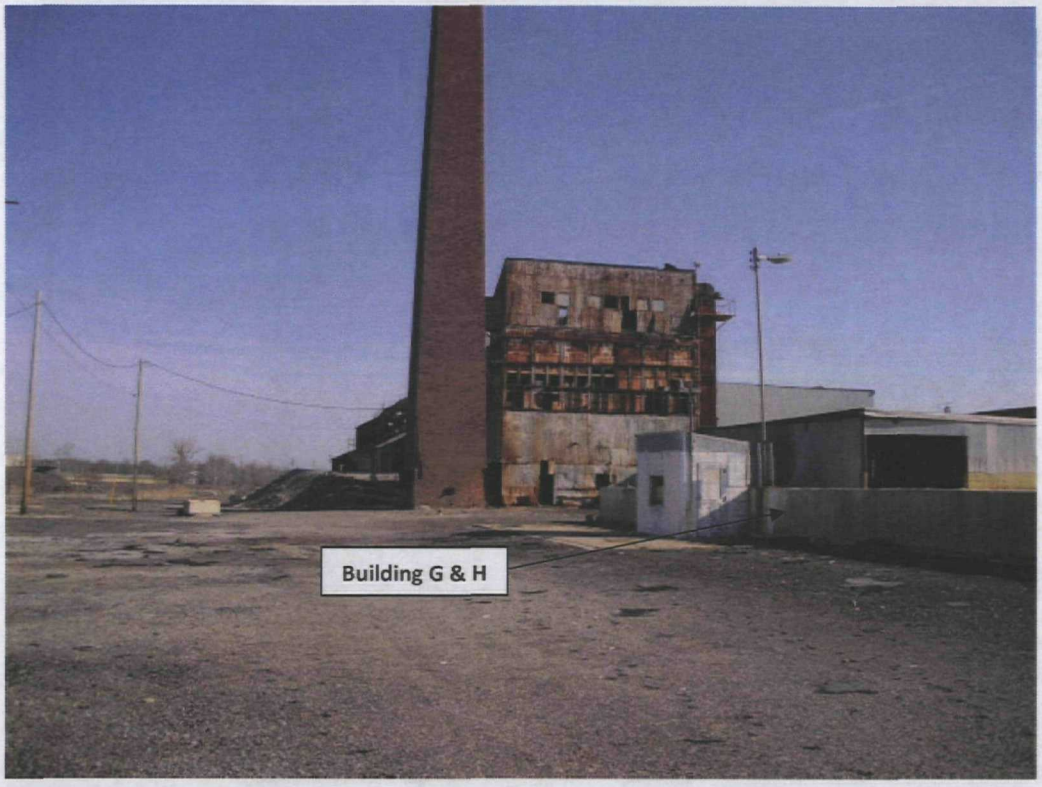

Photo 27: Exterior of Buildings G & H (looking northeast)

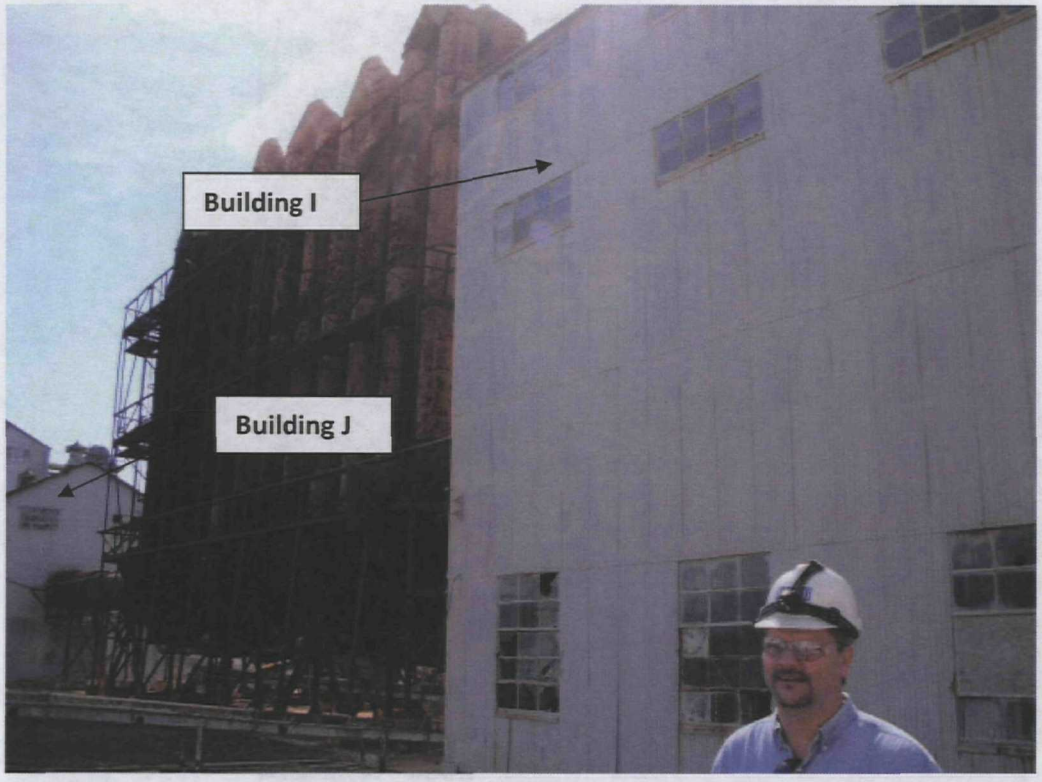

Photo 28: Exterior of Buildings I and J (looking southeast)

Photo 29: Interior of Building J (looking east)

Photo 30: Exterior of Building K (looking northwest)

Photo 31: Interior of Building K (looking north)

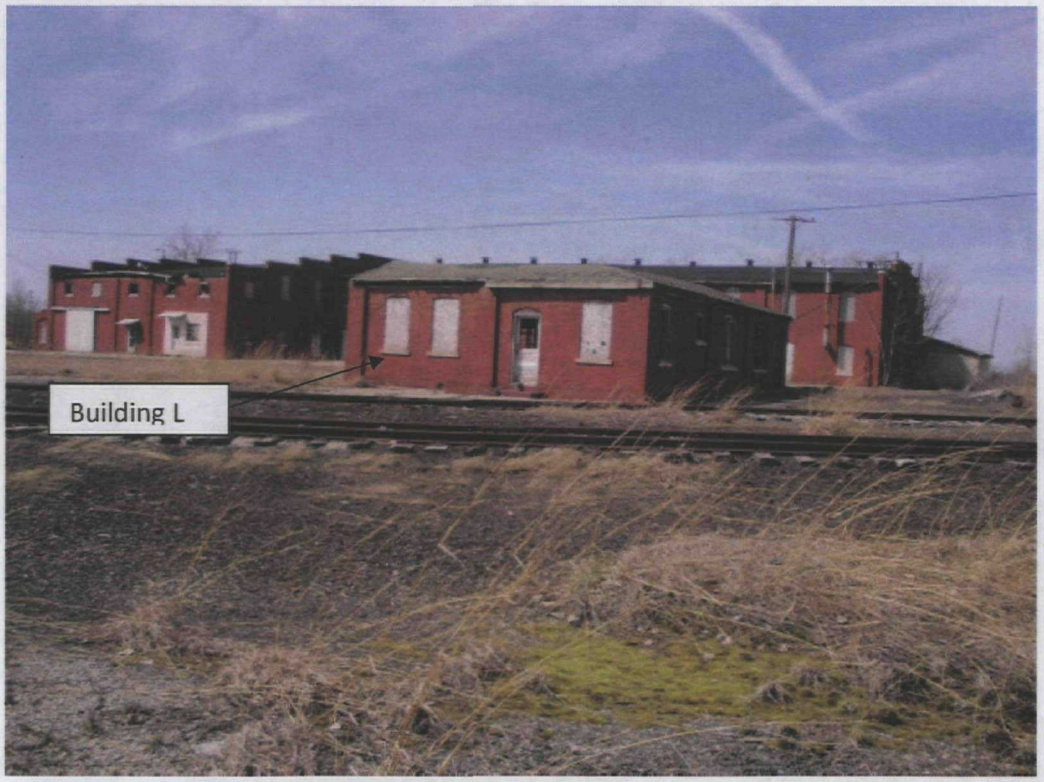

Photo 32: Exterior of Building L (looking southwest)

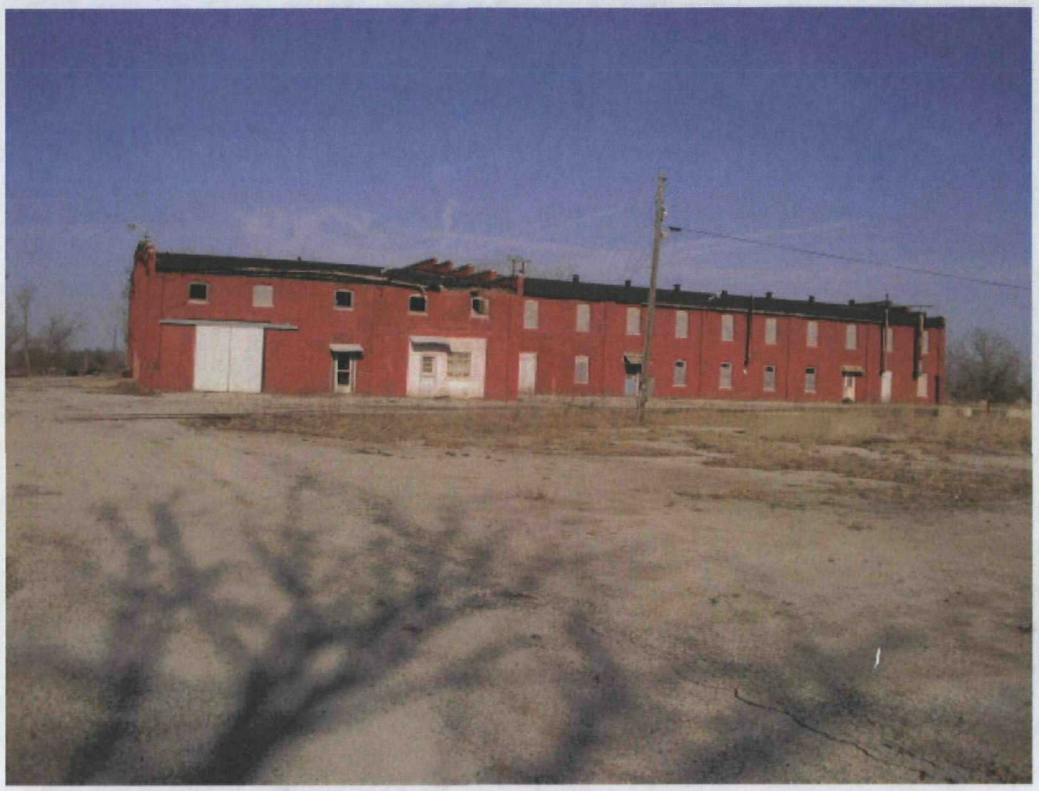

Photo 33: Exterior of Building M (looking west)

Photo 34: Exterior of Building M (looking north)

Photo 35: Interior of Building M (looking north-north-east)

Photo 36: Interior of Building M (looking east)

Photo 37: Exterior of Building N (looking northeast)

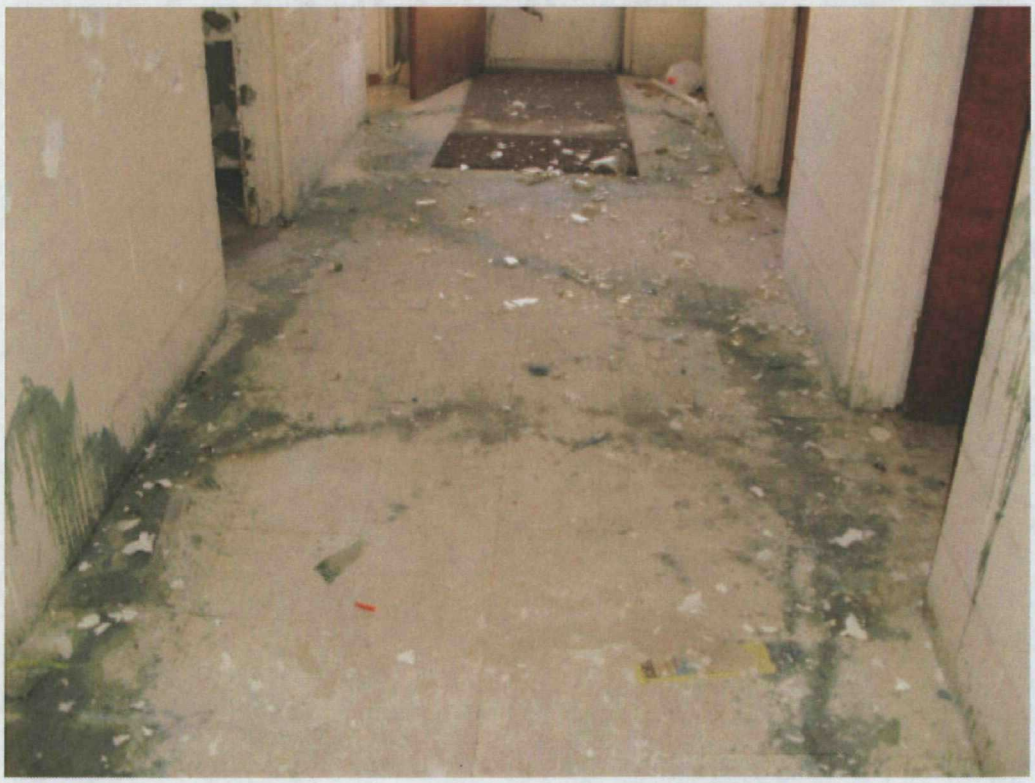

Photo 38: Interior of Building N (looking north)

Photo 39: Exterior of Building 0 (looking west)

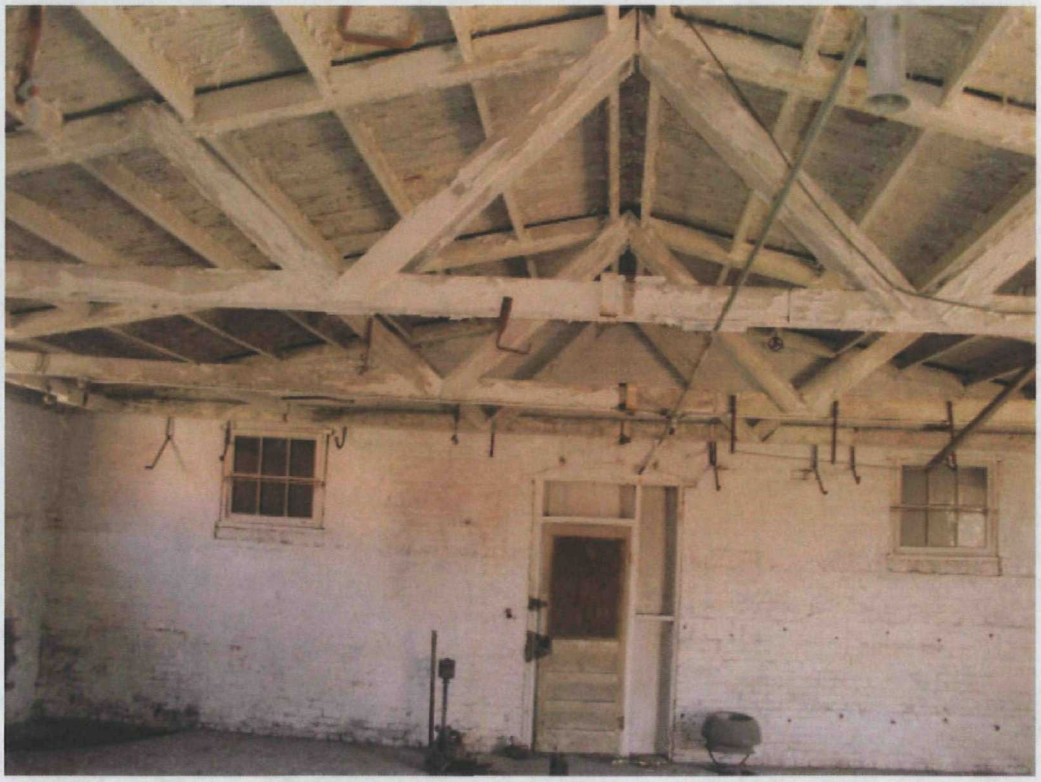

Photo 40: Interior of Building 0 (looking east)

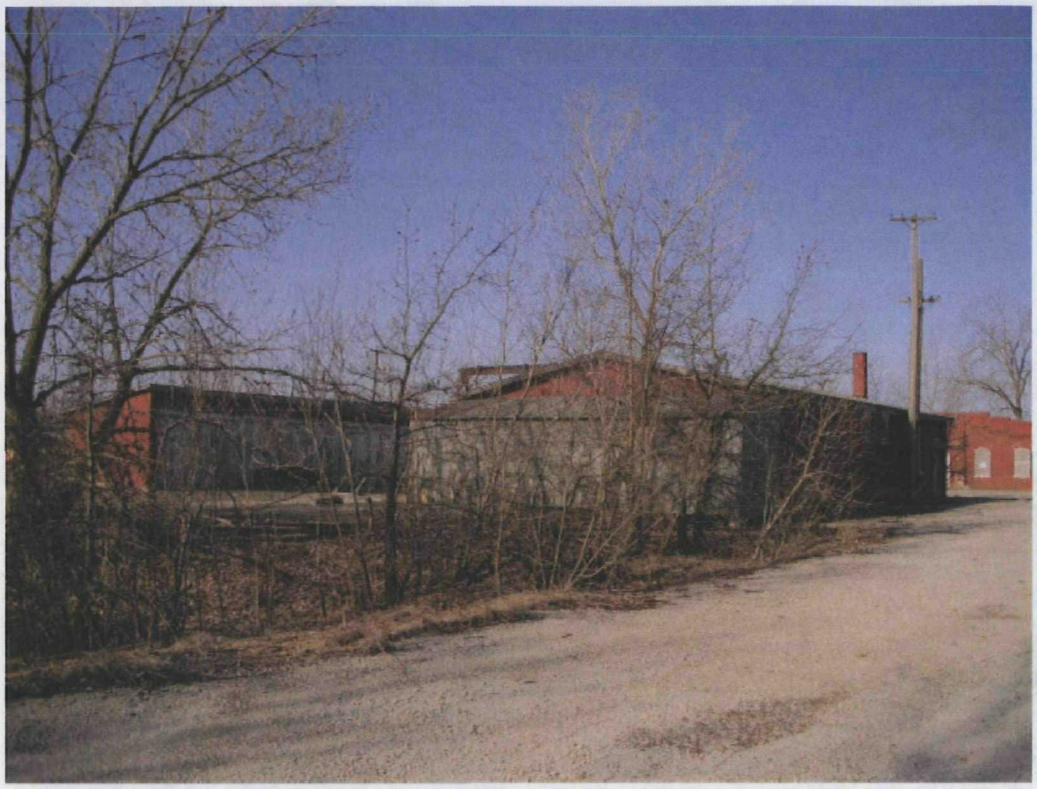

Photo 41: Exterior of Building P (looking southwest)

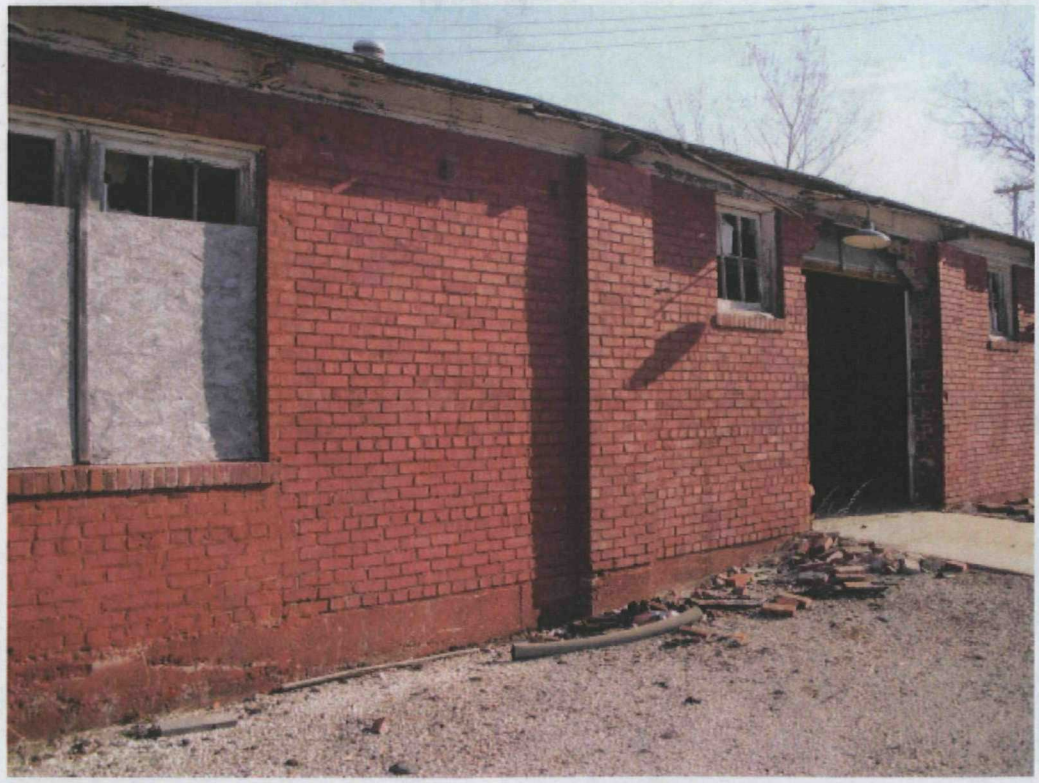

Photo 42: Exterior of Building P (looking north)

Photo 43: Two ASTs on concrete foundations.

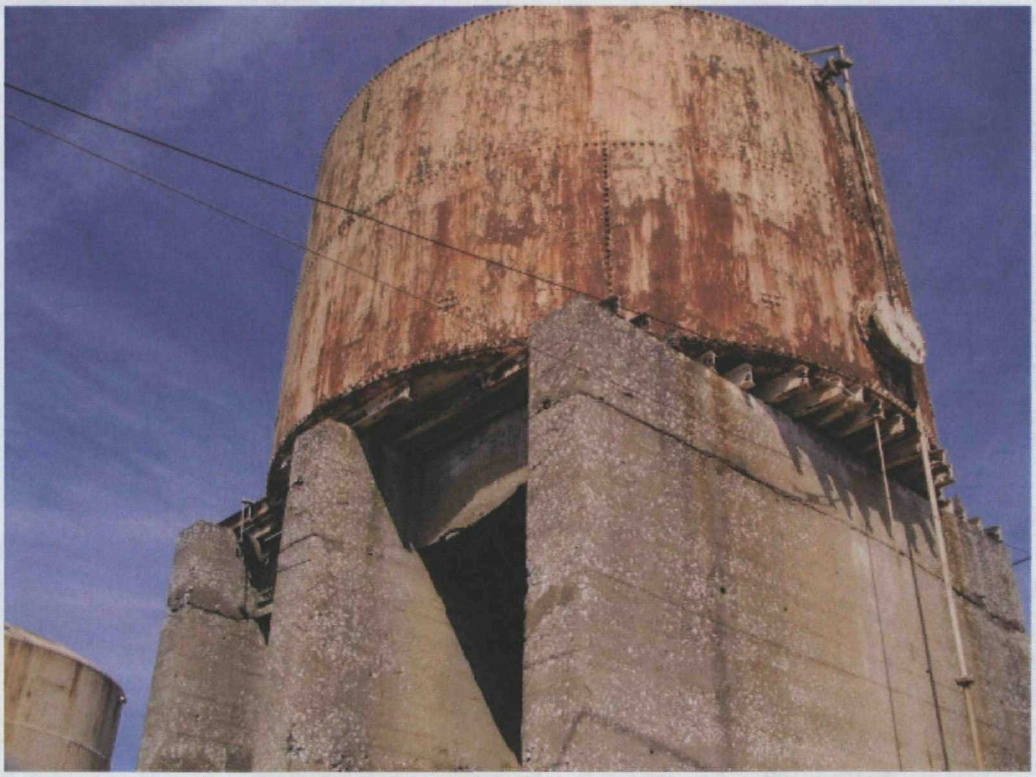

Photo 44: Close-up of one AST on concrete foundation.

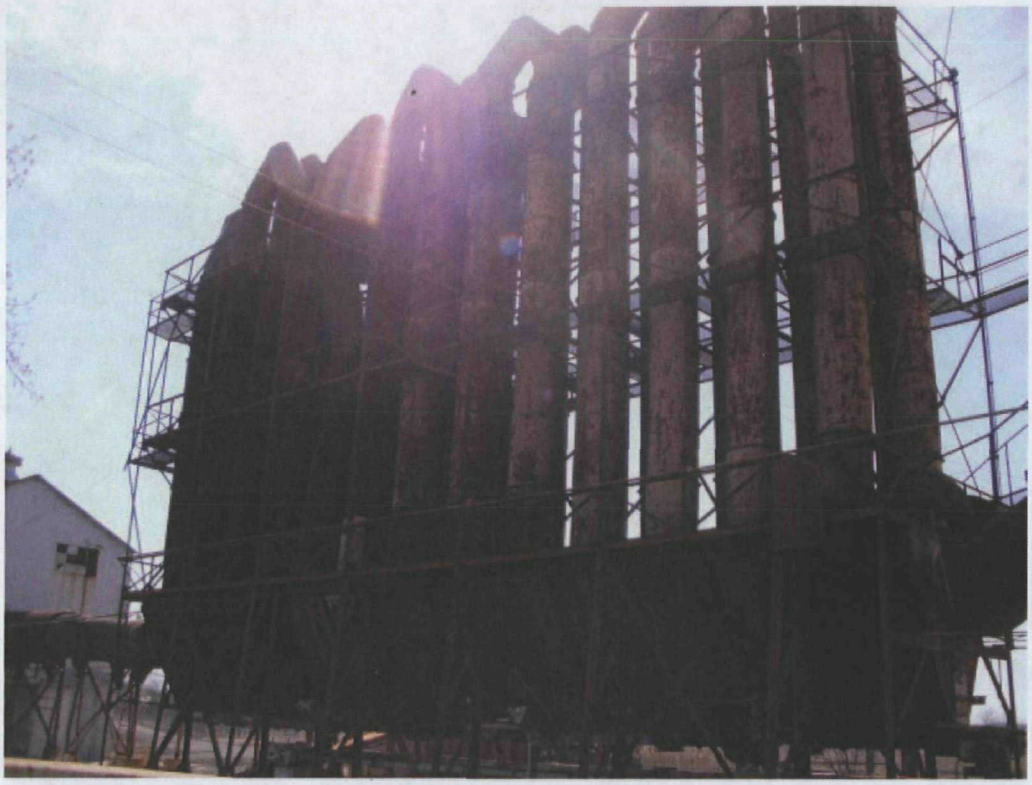

Photo 45: Cooling Tower

Photo 46: Site Duct Conveyor between Main Rotary Kiln Building and Fan Buildings

Appendix C
Specifications.

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END OF SECTION

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SECTION 01 11 00
SUMMARY OF WORK

PART 1 GENERAL

1.01 DEFINITIONS

A. Asbestos Subcontractor: the successful bidder of the Asbestos Abatement subcontract will become the Asbestos Subcontractor.

B. Contractor: CH2M HILL is contracted to U.S. EPA to perform the work and therefore is the Contractor.

C. Owner: the U.S. EPA is the owner of the Work.

D. Subcontractor: the successful bidder of this Demolition subcontract will become the Subcontractor (also known as the "Demolition Subcontractor").

1.02 WORK COVERED BY SUBCONTRACT DOCUMENTS

A. Demolition is anticipated to begin in January 2011 and be completed by August 2011.

B. The Work includes:

1. Mobilization and site preparation
2. Implementation of erosion control measures
3. Construction of temporary access roadways and ramps, as needed
4. Disconnection of utilities
5. Removal and offsite disposal of Universal Wastes
6. Decontamination of Building Materials
7. Demolition of the building roofs, walls, and superstructures down to the floor slabs
8. Implementation of control measures during demolition for Regulated Asbestos Containing Materials that were not able to be removed by the Asbestos Subcontractor (i.e., roofing materials) Decontamination of structural steel for offsite recycling Segregation of materials from the building for onsite disposal (non-contaminated building materials) in a consolidation cell and offsite disposal at recycling facilities, a RCRA Subtitle D landfill, or a TSCA landfill
9. Demobilization

C. Specific tasks not mentioned or not completely described that are necessary to perform tasks described as Work shall also be considered part of the Work.

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1.03 WORK PERFORMED BY OTHERS BEFORE START OF WORK COVERED BY THESE SUBCONTRACT DOCUMENTS

A. Work related to asbestos abatement:

1. Asbestos abatement within the buildings
2. Disposal of materials generated during the asbestos abatement activities

B. Construction of a consolidation cell in the southwest corner of the site

1.04 WORK PERFORMED BY OTHERS AFTER COMPLETION OF WORK COVERED BY THESE SUBCONTRACT DOCUMENTS

A. Work related to removal of contaminated soil:

1. Excavation of residual material/debris and placement in the consolidation cell
2. Placement of soil cap over consolidation cell
3. Rough grading of soil within the removal areas
4. Hydroseeding of backfilled areas

PART 2 PRODUCTS (NOT USED)

PART 3 EXECUTION (NOT USED)

END OF SECTION

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SECTION 01 29 00
PAYMENT PROCEDURES

PART 1 GENERAL

1.01 ADMINISTRATIVE SUBMITTALS

A. Schedule of Values

B. Schedule of Estimated Progress Payments:

1. Submit with initially acceptable Schedule of Values.
2. Submit adjustments thereto with Application for Payment.

C. Application for Payment: In accordance with the General Terms and Conditions and as specified herein.

D. Final Application for Payment: In accordance with the General Terms and Conditions and as specified herein.

1.02 SCHEDULE OF VALUES

A. Initially, submit Schedule of Values form to Contractor for approval of form before submission of first Application for Payment. Use approved Schedule of Values form with all Applications for Payment.

B. Unit Price Work: Reflect unit price quantity and price breakdown from conformed Bid Form.

C. Lump Sum Work: Reflect Schedule of Values format included in conformed Bid Form, specified allowances, and alternates, as applicable.

D. An unbalanced or front-end loaded schedule will not be acceptable.

E. Summation of the complete Schedule of Values representing all the Work shall equal the Subcontract Price.

F. Submit Schedule of Values via email to the Contractor, in a spreadsheet format compatible with latest version of Excel.

1.03 SCHEDULE OF ESTIMATED PROGRESS PAYMENTS

A. Show estimated payment requests throughout Subcontract Times aggregating initial Subcontract Price.

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B. Base estimated progress payments on initially acceptable progress schedule. Adjust to reflect subsequent adjustments in progress schedule and Subcontract Price as reflected by modifications to the Subcontract Documents.

1.04 APPLICATION FOR PAYMENT

A. Transmittal Summary Form: Attach one Summary Form with each detailed Application for Payment for each schedule and include Request for Payment of Materials and Equipment on Hand as applicable. Execute certification by authorized officer of Subcontractor.

B. Use detailed Application for Payment Form provided by Contractor (attached as a supplement to this section).

C. Provide separate form for each schedule as applicable.

D. Include accepted Schedule of Values for each schedule or portion of Work and the unit price breakdown for the Work to be paid on a unit priced basis.

E. Include separate line item for each Change Order and Work Change Directive executed prior to date of submission. Provide further breakdown of such as requested by Contractor.

F. Preparation: Submit Application for Payment, including a Transmittal Summary Form and detailed Application for Payment Form(s) for each schedule as applicable, a listing of materials on hand for each schedule as applicable, and such supporting data as may be requested by Contractor.

1.05 MEASUREMENT—GENERAL

A. Weighing, measuring, and metering devices used to measure quantity of materials for Work shall be suitable for purpose intended and conform to tolerances and specifications as specified in National Institute of Standards and Technology, Handbook 44.

B. Whenever pay quantities are determined by weight, material quantities for payment shall be based upon certified scales at the point of origin for imported materials or at the point of disposal for materials to be recycled or disposed offsite. All vehicles transporting weight payment materials shall obtain, at the facility's truck scale, both a tare weight and filled weight for each load of materials transported offsite. This value will be used by the Contractor as verification of the measurements obtained at the point of origin or point of disposal. All weight or load slips shall be delivered to the Contractor's Representative within 24 hours of the time the weight was obtained.

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C. If material is shipped by rail, car weights will be accepted provided that actual weight of material only will be paid for and not minimum car weight used for assessing freight tariff, and provided further that car weights will not be acceptable for material to be passed through mixing plants.

D. Vehicles used to haul material being paid for by weight shall be weighed empty daily and at such additional times as required by the Contractor. Each vehicle shall bear a plainly legible identification mark.

E. Pay quantities based on time shall be noted in the daily quantities provided to Contractor.

F. Units of measure shown on Bid Form shall be as follows, unless specified otherwise.

Item	Method of Measurement
LS	Lump Sum
SF	Square Foot—Measured in-place by Subcontractor and agreed to by Contractor
TN	Ton—Weight Measure by Scale (2,000 pounds)

1.06 PAYMENT

A. General:

1. Progress payments will be made monthly.
2. The date for Subcontractor's submission of monthly Application for Payment shall be established at the Preconstruction Conference.
3. Except as expressly indicated to the contrary, prices include all allowances; local, state, and federal sales and use taxes; any import or export duties (regardless of point of origin); contingencies; and costs of all insurance, overhead and profit.

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B. Payment shall be made based on the following parameters:

Item	Measurement Parameters
1. General Requirements LS	This line item includes labor and other costs associated with attendance at meetings, preparation and revision of administrative submittals, and other administrative activities occurring before mobilization.
2. Mobilization LS	This line item includes all labor, equipment, and materials necessary to transport personnel and equipment to the site, set up temporary facilities, utilities, decontamination areas, and other infrastructure necessary to complete the Work. The lump sum prices for Mobilization and Demobilization combined shall not exceed 7.5 percent of the total bid price. The lump sum price for Mobilization shall not exceed 5 percent of the total bid price.
3. Remove and Dispose of Universal Waste: Universal Waste Lamps LS	This line item includes all labor, equipment, materials, and fees necessary to identify, remove, and dispose of Universal Waste Lamps as defined in Title 35, Sections 733.105 and 733.109 of the Illinois Administrative Code.
4. Building Decontamination LS	This line item includes all labor, equipment, materials, and fees necessary to decontaminate the building materials. Collection and disposal of any liquid materials or other wastes generated during the decontamination process are also included in this line item.
5. Building Demolition LS	This line item includes all labor, equipment, materials, and fees necessary to demolish the superstructure of the building, as well as segregating, staging, stockpiling, and loading the materials from the building as (1) equipment to be resold offsite, (2) materials to be recycled offsite, (3) non-contaminated materials to be used to backfill in excavations onsite, (4) materials to be disposed at a RCRA Subtitle D landfill, and (5) materials to be disposed at a TSCA-permitted landfill. This line item also includes the transportation costs associated with and the credit the Subcontractor will receive from the resale or recycling of equipment, or other items of value, except for recycled steel. Decontamination of Salvageable Equipment, if necessary, and removal and disposal of existing transformer on roof of building is also included.

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Item	Measurement Parameters
6. Recycling of Salvageable Metal TN	This line item includes all labor, equipment, materials, and fees necessary to decontaminate all Salvageable Metal and to transport and recycle the metal offsite. Collection and disposal of any liquid materials or other wastes generated during the decontamination process are also included in this line item. This line item also includes the credit Subcontractor receives from resale or recycling of steel. See note below regarding fluctuations in steel prices.
6. Subtitle D Landfill Disposal TN	This line item includes all labor, equipment, and materials necessary to transport and dispose of soil, concrete, trash, and other materials designated by the Contractor as requiring disposal in a RCRA Subtitle D landfill. This line item includes all fees associated with disposal including processing required by the disposal facility.
7. Demobilization LS	This line item includes all labor, equipment, and materials necessary to remove infrastructure set up by the Subcontractor. Decontamination and removal of all remaining materials, equipment, and temporary infrastructure from the site is also included in this line item. The lump sum prices for Mobilization and Demobilization combined shall not exceed 7.5 percent of the total bid price. The lump sum price for Demobilization shall be a minimum of 2.5 percent of the total bid price.
10. Subcontract Closeout LS	This line item includes preparation and revision of any closeout submittals required by these Subcontract Documents.
11. Performance and Payment Bond LS	Includes all costs associated with the performance and payment bonds.

C. Since the vast majority of the recyclable metal in the building is steel, and the value of steel can vary, the Subcontractor will provide information on the Bid Form regarding the basis of the steel salvage value and the specific index and date from which that value was obtained. The Subcontractor will also provide alternate prices for Recycling of Salvageable Metal line items if the steel value in that index is 50 percent and 200 percent of the value used as the bid basis. A linear relationship will be used between the basis bid and the

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50 percent and 200 percent values, and the value of steel for the same index on the last Friday of the month will be used to determine the actual price for these line items for that month. Monthly progress payments will be based on the estimated percentage of demolition completed during the month. When the demolition task is completed and before or at the time of Final Payment, the price of these line items will be fixed based on the percentage of the total amount of recyclable steel that had left the site during each month. The amount paid to the Subcontractor will be adjusted upwards or downwards based on this final set price for these line items.

1.07 NONPAYMENT FOR REJECTED OR UNUSED PRODUCTS

A. Payment will not be made for following:

1. Loading, hauling, and disposing of rejected material.
2. Quantities of material wasted or disposed of in manner not called for under Subcontract Documents or not as approved by Contractor.
3. Rejected loads of material, including material rejected after it has been placed by reason of failure of Subcontractor to conform to provisions of Subcontract Documents.
4. Material not unloaded from transporting vehicle.
5. Defective Work not accepted by Contractor.
6. Material remaining on hand after completion of Work

1.08 PARTIAL PAYMENT FOR STORED MATERIALS AND EQUIPMENT

A. Partial Payment: No partial payments will be made for materials and equipment delivered or stored unless approved by the Contractor prior to delivery to the site.

B. Final Payment: Will be made only for products incorporated in Work; remaining products, for which partial payments have been made, shall revert to Subcontractor unless otherwise agreed, and partial payments made for those items will be deducted from final payment.

1.09 SUPPLEMENTS

A. The supplements listed below, following "End of Section," are part of this Specification.

1. Form 276: Payment Application and Certificate

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PART 2 PRODUCTS (NOT USED)

PART 3 EXECUTION (NOT USED)

END OF SECTION

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SECTION 01 31 13
PROJECT COORDINATION

PART 1 GENERAL

1.01 COORDINATION – GENERAL

A. This section outlines special coordination required for the project, including that required between multiple subcontractors, work by others that may constrain Subcontractor's work, and other constraints that may be placed on the Subcontractor.

1.02 SUBMITTALS

A. The following project plans shall be submitted by the Subcontractor prior to commencement of the Work. Full Notice to Proceed will by given by the Contractor only after these project plans have been accepted as satisfactory by the Contractor.

1. Work Plan:
   a. The Subcontractor shall submit a written Work Plan describing its proposed Work and approach for Work. The anticipated number of onsite personnel and their job functions in performing the Work shall be included. The Work Plan shall include details on the following, including drawings where appropriate:
      1) Mobilization/site setup
      2) Construction of temporary access roadways and ramps
      3) Erosion protection, dust and vapor control
      4) Universal waste removal and disposal
      5) Decontamination of Building Materials
      6) Building demolition
      7) Decontamination of structural steel
      8) Demolition materials staging and disposal
      9) Demobilization
   b. A discussion of both on-site and off-site traffic control shall be included in the Work Plan.
   c. All proposed equipment to be used in execution of all phases of the Work shall be listed in the Work Plan. Copies of equipment manufacturers' specifications and catalog information shall be included in an Appendix to the Work Plan.
   d. The Subcontractor shall include copies of any authorizations and/or permits required to perform the Work in the Work Plan.

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e. Work Plan shall include Subcontractor's schedule for completion of Work and an organization chart showing all project management personnel and their relationships.

f. Work Plan shall include Subcontractor's procedures for changed conditions. Subcontractor shall acknowledge that it shall identify out-of-scope work, bring it to Contractor's attention in writing, and receive written notice to proceed from Contractor before undertaking any such work. Discussion of changed condition procedures in Work Plan shall incorporate requirements described in the General Terms and Conditions.

2. Quality Control Plan:

a. The Subcontractor shall submit a Quality Control Plan that covers its portion of the Work. The Quality Control Plan shall include, as a minimum, the following:

1) A description of the Subcontractor's control organization, including a chart showing lines of authority, and acknowledgement that the Contractor's Quality Control staff shall conduct inspections for all aspects of the work specified.

2) The name, qualifications, responsibilities, and authority of each person assigned to the Subcontractor's Quality Control function.

3) A copy of the letter to the Subcontractor's Quality Control Manager signed by an authorized official of the firm, which describes the responsibility and delegates authority to the Subcontractor's Quality Control Manager.

4) Procedures for scheduling and managing submittals, including those of Sub-subcontractors, fabricators, suppliers, and purchasing agents.

5) Control procedures to be promulgated.

6) Reporting procedures including proposed reporting formats.

b. Acceptance of the Subcontractor's Quality Control Plan by the Contractor is required before Full Notice to Proceed will be issued. Acceptance is conditional, and its continuation will depend on satisfactory performance by the Subcontractor during construction. The Contractor reserves the right to require the Subcontractor to make changes in the Subcontractor's Quality Control Plan and operations as necessary to obtain the quality specified, at no additional cost.

c. Notification of Changes: After acceptance of the Subcontractor's Quality Control Plan, the Subcontractor shall notify the Contractor in writing of any proposed change. Proposed changes will be subject to acceptance by the Contractor.

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3. Emergency Response Plan:
   a. The Subcontractor shall submit an Emergency Response Plan to the Contractor.
   b. The Subcontractor's Emergency Response Plan shall conform to the requirements of Paragraph L of 29 CFR 1910.120.
   c. The Emergency Response Plan shall include a Spill Plan.
4. Transportation and Disposal Plan:
   a. The Subcontractor shall submit a Transportation and Disposal Plan to the Contractor.
   b. The Subcontractor's Transportation and Disposal Plan shall include, at a minimum, the following:
      1) Waste documentation procedures.
      2) EPA I.D. number(s) of waste transporter(s) for transportation of all wastes being disposed of at offsite disposal facilities, if applicable.
      3) Waste staging and transportation procedures.
      4) Waste characterization parameters to be used as acceptance criteria by landfills.
      5) List of RCRA Subtitle D landfills to be used for disposal of wastes, including locations and contact information.
      6) List of recycling facilities and/or smelting facilities to be used for disposal of steel.
      7) Copies of waste acceptance approval for each waste stream and landfill.
      8) Copies of (uncompleted) forms:
         a) Final disposal documentation for each waste stream
         b) Load tickets or manifests for every load destined for offsite disposal.
5. Water Control Plan:
   a. The Subcontractor shall submit a Water Control Plan to the Contractor.
   b. The Subcontractor's Water Control Plan shall include, at a minimum, the following:
      1) All information related to Subcontractor's Work that Contractor will need to update the Erosion and Sediment Control Plan (ESCP). A copy of the ESCP is included as a supplement to this section.
      2) Drawings showing locations, dimensions, and relationships of elements of each system.
6. Decontamination Plan:
   a. The Subcontractor shall submit a Decontamination Plan to the Contractor.

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b. The Subcontractor's Decontamination Plan shall include, at a minimum, the setup, removal, physical layout, location, equipment, and procedures for decontamination of personnel, materials, and equipment.

7. Site Specific Health and Safety Plan:
   a. The Subcontractor shall submit a Site Specific Health and Safety Plan (SHSP) to the Contractor. Full Notice to Proceed will be given by the Contractor only after the SHSP has been accepted as satisfactory by the Contractor.
   b. The SHSP shall meet the requirements given in the General Terms and Conditions.

1.03 RELATED WORK AT SITE

A. General:

1. Other work that is either directly or indirectly related to scheduled performance of the Work under these Subcontract Documents, listed in Section 01 11 00, Summary of Work, is anticipated to be performed at Site by others.
2. Coordinate the Work in these Subcontract Documents with work of others as specified in General Terms and Conditions.
3. Include sequencing constraints, if any, as a part of Progress Schedule.

B. Previous Work:

1. The Asbestos Subcontractor will be performing asbestos abatement activities prior to implementation of the Work described within these Subcontract Documents. These activities will occur within the building and around the immediate exterior of the building.

C. Concurrent Work by Others:

1. Contractor will monitor all vehicles and personnel entering the Site. Owner and Contractor assume no liability for Demolition Subcontractor-supplied equipment or materials or recyclable materials already present at the Site. Demolition Subcontractor is responsible for the security of their work area within the Site.
2. The Contractor will be conducting periodic perimeter air monitoring during the execution of the Work. The Subcontractor shall regularly communicate its Work schedule to the Contractor to allow the Contractor to plan the perimeter air monitoring events.
3. Another subcontractor will be constructing a containment cell located at the southwest corner of the site.

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4. The Contractor may also be conducting groundwater sampling or other activities during the time this Work is being conducted.

1.04 UTILITY NOTIFICATION AND COORDINATION

A. Coordinate the Work with various utilities within Project limits. Notify applicable utilities prior to commencing Work, if damage occurs, or if conflicts or emergencies arise during Work.

B. Power: The Subcontractor shall make its own arrangements for power.

C. Water: During disconnection of the site water line, subcontractor shall install temporary fittings, metering, etc. to provide water for its work. Subcontractor shall coordinate with the water department for requirements. Temporary fittings, metering, etc. shall be removed upon completion of demolition activities and the water line capped.

1.05 EXAMINATION OF FACILITIES

A. After Subcontract is awarded and before commencement of Work, Subcontractor shall make a thorough examination and make a video record of existing buildings, structures, trees, and sensitive areas and other improvements located within 200 feet of all construction and easement limits of the worksite that might be damaged by Subcontractor's operations. Video record shall be made in DVD format. Video shall be augmented with still photographs as necessary. The examination shall be made jointly by Subcontractor and Contractor. The scope of examination shall include documentation of existing cracks in structures, settlement, leakage, and similar conditions.

B. Additional video/photographic records shall be made during the demolition activities, as appropriate, and at the conclusion of demolition activities.

C. Records of all observations shall be prepared in duplicate by Subcontractor. One copy of each document and one copy of all videos and still photographs shall be provided to Contractor, with the video and photographs provided in electronic (DVD/CD) format.

D. These records and photographs are intended for use as indisputable evidence in ascertaining whether and to what extent damage occurred as a result of Subcontractor's operations, and are for the protection of adjacent property owners, Subcontractor, and Contractor.

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1.06 SUPPLEMENTS

A. Erosion and Sediment Control Plan

PART 2 PRODUCTS (NOT USED)

PART 3 EXECUTION (NOT USED)

END OF SECTION

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SECTION 01 31 19
PROJECT MEETINGS

PART 1 GENERAL

1.01 GENERAL

A. Contractor will schedule physical arrangements for meetings throughout progress of the Work, prepare meeting agenda with regular participant input and distribute with written notice of each meeting, preside at meetings, record minutes to include significant proceedings and decisions, and reproduce and distribute copies of minutes within 5 days after each meeting to participants and parties affected by meeting decisions.

1.02 PRECONSTRUCTION CONFERENCE

A. Subcontractor shall be prepared to discuss the following subjects, at a minimum:

1. Required schedules
2. Status of Subcontract, submittals, Bonds, and insurance
3. Sequencing of critical path work items
4. Progress payment procedures, including lower-tier subcontractors
5. Project changes and clarification procedures
6. Use of Site, access, office and storage areas, security and temporary facilities
7. Work day hours and days of week
8. Mobilization, setup, demobilization, and Site cleanup
9. Disposal facilities and disposal documentation
10. Major product delivery and priorities
11. Subcontractor's safety plan

B. Attendees will include:

1. Owner's representatives
2. Subcontractor's office representative
3. Subcontractor's resident superintendent
4. Subcontractor's quality control representative
5. Subcontractor's health and safety representative
6. Sub-subcontractors' representatives whom Subcontractor may desire or Contractor may request to attend
7. Contractor's representatives
8. Others as appropriate

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1.03 PRELIMINARY SCHEDULES REVIEW MEETING

A. As set forth in General Terms and Conditions and Section 01 32 00, Construction Progress Documentation

1.04 PROGRESS MEETINGS

A. Contractor will schedule regular progress meetings at Site, conducted weekly to review the Work progress, Progress Schedule, Schedule of Submittals, Application for Payment, contract modifications, and other matters needing discussion and resolution.

B. Attendees will include:

1. Owner's representative(s), as appropriate
2. Subcontractor (including Subcontractor's office representative and Subcontractor's resident superintendent), Sub-subcontractors, and Suppliers, as appropriate
3. Contractor's representative(s)
4. Others as appropriate

1.05 QUALITY CONTROL AND COORDINATION MEETINGS

A. Scheduled by Contractor on a regular basis and as necessary to review test and inspection reports, and other matters relating to quality control of the Work and work of others

B. Attendees will include:

1. Subcontractor
2. Subcontractor's designated quality control representative
3. Sub-subcontractors and Suppliers, as necessary
4. Contractor's representatives
5. Others as appropriate

1.06 OTHER MEETINGS

A. Daily Tailgate Meetings: All Subcontractor and Sub-subcontractor personnel at the Site shall attend a daily meeting for the purpose of discussion of health and safety issues as well as scheduling Work for the day. Contractor representative(s) shall be invited to attend the meeting. If a Contractor representative does not attend the meeting, a brief written summary of issues discussed the meeting and any resolutions shall be provided to Contractor within one hour of the end of the meeting.

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B. Monthly Progress Meetings

1. Conducted to discuss progress and identify and resolve coordination issues.
2. Attendees will include:
   a. Owner's representative(s)
   b. Contractor's representative(s)
   c. Subcontractor's representative
   d. Sub-subcontractor(s) as appropriate
   e. Others as appropriate

C. In accordance with Contract Documents and as may be required by the Owner and Contractor

PART 2 PRODUCTS (NOT USED)

PART 3 EXECUTION (NOT USED)

END OF SECTION

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SECTION 01 32 00
CONSTRUCTION PROGRESS DOCUMENTATION

PART 1 GENERAL

1.01 SUBMITTALS

A. Overall Progress Schedule: Submit adjusted schedule with each monthly Application for Payment in accordance with the General Term and Conditions, and at such other times as necessary to reflect: (i) progress of Work to within 5 working days prior to submission; (ii) changes in Work scope and activities modified since submission; (iii) delays in Submittals or resubmittals, deliveries, or Work; (iv) adjusted or modified sequences of Work; (v) other identifiable changes; and (vi) revised projections of progress and completion.

B. Submit with Each Progress Schedule Submission:

1. Progress Schedule: For each schedule submission, one legible copy and one electronic copy provided in specified application format
2. An example schedule is included as a supplement to this section
3. Progress schedules shall be submitted weekly.

C. Daily Report

1. Subcontractor shall submit a daily report which summarizes work performed for the day, health and safety, work force and equipment present, work or test accomplished, changed conditions/delays or conflicts, visitors, material delivered to site, testing and inspections performed, submittal inspections/review, quality issues and resolutions, regulatory compliance report, and waste accumulation/stockpile area inspections.

1.02 PROGRESS OF THE WORK

A. If Subcontractor fails to complete activity by its latest scheduled completion date and this failure may extend Subcontract Times (or Milestones), Subcontractor shall, within 7 days of such failure, submit a written statement as to how Subcontractor intends to correct nonperformance and return to the acceptable current progress schedule. Actions by Subcontractor to complete Work within Subcontract Times (or Milestones) will not be justification for adjustment to Subcontract Price or Subcontract Times.

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B. Contractor may order Subcontractor to increase plant, equipment, labor force or working hours if Subcontractor fails to: (i) complete a critical scheduled activity by its latest Milestone completion date, or (ii) satisfactorily execute Work as necessary to prevent delay to the overall completion of the Project.

1.03 OVERALL PROGRESS SCHEDULE

A. General:

1. Notice to Proceed will be issued only after the Overall Progress Schedule has been reviewed as acceptable by Contractor in accordance with Section 01 33 00, Submittal Procedures. The Contractor will review the initial submittal and subsequent resubmittals of the Overall Progress Schedule within 7 calendar days of receipt.
2. Schedule(s) shall reflect Work logic sequences, restraints, delivery windows, review times, Subcontract Times, and Milestones set forth in the Agreement and shall begin with the date of Notice to Proceed and conclude with the date of Final Completion.
3. The schedule requirement herein is the minimum required. Subcontractor may prepare a more sophisticated schedule if such will aid Subcontractor in execution and timely completion of Work.
4. Float time is a Project resource available to both parties to meet contract Milestones and Subcontract Times.
5. Use of float suppression techniques such as preferential sequencing or logic, special lead/lag logic restraints, and extended activity times are prohibited, and use of float time disclosed or implied by use of alternate float-suppression techniques shall be shared to proportionate benefit of the Contractor and Subcontractor.
6. Pursuant to above float-sharing requirement, no time extensions will be granted nor delay damages paid until a delay occurs which (i) impacts Project's critical path, (ii) consumes available float or contingency time, and (iii) extends Work beyond contract completion date.
7. If Subcontractor provides an accepted schedule with an early completion date, the Contractor reserves the right to reduce Subcontract Times to match the early completion date by issuing a deductive Change Order at no change in Subcontract Price.

B. Format:

1. Computer generated Gantt (Bar) chart or Network Analysis Diagram schedule using Critical Path Method (CPM), generally as outlined in Associated General Contractors of America (AGC) publication "The Use of CPM in Construction-A Manual for General Contractor's and the Construction Industry," latest edition, prepared on reproducible paper,

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not larger than 30 inches by 42 inches. Computer software used to generate the schedule shall be the Microsoft Project 2003 or a later version.

a. Show complete interdependence and sequence of construction and Project-related activities reasonably required to complete the Work, identifying Work of separate stages and other logically grouped activities, and clearly identify critical path of activities.
b. Include at a Minimum: Subcontract Work; major and other equipment and critical product design, fabrication, testing, delivery and installation times including required lead time for Contractor-furnished products, move-in and other preliminary activities, Project closeout and cleanup, Substantial Completion dates, Submittals that may impact critical path, and system/subsystem/component testing, facility startup, and training activities that may impact critical path.
c. Develop subschedules to further define critical portions of the Work.
d. Indicate dates for early- and late-start, early- and late-finish, float and duration.
e. No activity duration, exclusive of those for Submittals review and product fabrication/delivery, shall be less than 1 day nor more than 30 working days, unless otherwise approved by the Contractor.
f. Activity duration for Submittals review shall not be less than review time specified unless clearly identified and prior written acceptance has been obtained from the Contractor.
g. Monthly Schedule Submissions: Include overall percent complete, projected and actual; and percent completion progress for each listed activity.

1.04 CLAIMS FOR ADJUSTMENT OF SUBCONTRACT TIMES

A. Where the Contractor has not yet rendered formal decision on the Subcontractor's claim for adjustment of Subcontract Times, and parties are unable to agree as to amount of adjustment to be reflected in progress schedule, the Subcontractor shall reflect that amount of time adjustment in progress schedule as the Contractor may accept as appropriate for the interim. It is understood and agreed that such interim acceptance by the Contractor will not be binding and will be made only for purpose of continuing to schedule Work, until such time as formal decision as to an adjustment, if any, of the Subcontract Times acceptable to the Contractor has been rendered. Subcontractor shall revise progress schedule prepared thereafter in accordance with the Contractor's formal decision.

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1.05 SUPPLEMENTS

A. The supplements listed below, following "End of Section," are part of this Specification.

1. Example Schedule

PART 2 PRODUCTS (NOT USED)

PART 3 EXECUTION (NOT USED)

END OF SECTION

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SECTION 01 33 00
SUBMITTAL PROCEDURES

PART 1 GENERAL

1.01 DEFINITIONS

A. Action Submittal: Written and graphic information submitted by Subcontractor that requires the Contractor's approval.

B. Informational Submittal: Information submitted by Subcontractor that does not require the Contractor's approval.

1.02 PROCEDURES

A. Direct submittals to the Contractor at the following address, unless specified otherwise.

1. CH2M HILL
   Attn: Margaret Dombrowski
   135 South 84th Street, Suite 325
   Milwaukee, WI 53214

B. Transmittal of Submittal:

1. Subcontractor shall:
   a. Review each submittal and check for compliance with Subcontract Documents.
   b. Stamp each submittal with uniform approval stamp before submitting to the Contractor.
      1) Stamp to include Project name, submittal number, Specification number, Subcontractor's reviewer name, date of Subcontractor's approval, and statement certifying that submittal has been reviewed, checked, and approved for compliance with Subcontract Documents.
      2) The Contractor will not review submittals that do not bear Subcontractor's approval stamp and will return them without action.
2. Complete, sign, and transmit with each submittal package, one Transmittal of Subcontractor's Submittal form attached at end of this section.

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3. Identify each submittal with the following:
   a. Numbering and Tracking System:
      1) Sequentially number each submittal.
      2) Resubmission of submittal shall have original number with sequential alphabetic suffix.
   b. Specification section and paragraph to which submittal applies.
   c. Project title and the Contractor's project number.
   d. Date of transmittal.
   e. Names of Subcontractor, Sub-subcontractor or Supplier, and manufacturer as appropriate.
4. Identify and describe each deviation or variation from Subcontract Documents.

C. Format:

1. Do not base Shop Drawings on reproductions of Subcontract Documents.
2. Package submittal information by individual Specification section. Do not combine different Specification sections together in submittal package, unless otherwise directed in Specification.
3. Present in a clear and thorough manner and in sufficient detail to show kind, size, arrangement, and function of components, materials, and devices, and compliance with Subcontract Documents.
4. Index with labeled tab dividers in orderly manner.
5. When feasible, provide an electronic copy to the Contractor in addition to hardcopy submittals.

D. Timeliness: Schedule and submit in accordance Schedule of Submittals, and requirements of individual Specification sections.

E. Processing Time:

1. Time for review shall commence on Contractor's receipt of submittal.
2. Contractor will act upon Subcontractor's submittal and transmit response to Subcontractor not later than 14 days after receipt, unless otherwise specified.
3. Resubmittals will be subject to same review time.
4. No adjustment of Contract Times or Price will be allowed due to delays in progress of Work caused by rejection and subsequent resubmittals.

F. Resubmittals: Clearly identify each correction or change made.

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G. Incomplete Submittals:

1. Contractor will return entire submittal for Subcontractor's revision if preliminary review deems it incomplete.
2. When any of the following are missing, submittal will be deemed incomplete:
   a. Subcontractor's review stamp, completed and signed.
   b. Transmittal of Subcontractor's Submittal, completed and signed.
   c. Insufficient number of copies.

H. Submittals not required by Subcontract Documents:

1. Will not be reviewed and will be returned stamped "Not Subject to Review."
2. Contractor will keep one copy and return all remaining copies to Subcontractor.

1.03 ACTION SUBMITTALS

A. Prepare and submit Action Submittals required by individual Specification sections.

B. Application for Payment: In accordance with Section 01 29 00, Payment Procedures.

C. Action Submittal Dispositions: Contractor will review, mark, and stamp as appropriate, and distribute marked-up copies as noted:

1. Approved:
   a. Subcontractor may incorporate product(s) or implement Work covered by submittal.
   b. Distribution:
      1) One copy furnished to Contractor's onsite representative.
      2) One copy retained in Contractor's file.
      3) Remaining copies returned to Subcontractor appropriately annotated.
2. Approved as Noted:
   a. Subcontractor may incorporate product(s) or implement Work covered by submittal, in accordance with Contractor's notations.
   b. Distribution:
      1) One copy furnished to Contractor's onsite representative.
      2) One copy retained in Contractor's file.
      3) Remaining copies returned to Subcontractor appropriately annotated.

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3. Partial Approval, Resubmit as Noted:
   a. Make corrections or obtain missing portions, and resubmit.
   b. Except for portions indicated, Subcontractor may begin to incorporate product(s) or implement Work covered by submittal, in accordance with Contractor's notations.
   c. Distribution:
      1) One copy furnished to Contractor's onsite representative.
      2) One copy retained in Contractor's file.
      3) Remaining copies returned to Subcontractor appropriately annotated.
4. Revise and Resubmit:
   a. Subcontractor may not incorporate product(s) or implement Work covered by submittal.
   b. Distribution:
      1) One copy furnished to Contractor's onsite representative.
      2) One copy retained in Contractor's file.
      3) Remaining copies returned to Subcontractor appropriately annotated.

1.04 INFORMATIONAL SUBMITTALS

A. General:

1. Copies: Submit three copies, unless otherwise indicated in individual Specification section.
2. Refer to individual Specification sections for specific submittal requirements.
3. Contractor will review each submittal. If submittal meets conditions of the Subcontract, Contractor will forward copies to appropriate parties. If Contractor determines submittal does not meet conditions of the Subcontract and is therefore considered unacceptable, Contractor will retain one copy and return remaining copies with review comments to Subcontractor, and require that submittal be corrected and resubmitted.

B. Certificates:

1. General:
   a. Provide notarized statement that includes signature of entity responsible for preparing certification.
   b. Signed by officer or other individual authorized to sign documents on behalf of that entity.
2. Certificates of Successful Testing or Inspection: Submit when testing or inspection is required by Laws and Regulations or governing agency or specified in individual Specification sections.

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C. Subcontract Closeout Submittals: In accordance with Section 01 77 00, Closeout Procedures.

D. Statement of Qualification: Evidence of qualification, certification, or registration as required in Subcontract Documents to verify qualifications of professional land surveyor, engineer, materials testing laboratory, specialty Subcontractor, trade, Specialist, consultant, installer, and other professionals.

E. Submittals Required by Laws, Regulations, and Governing Agencies:

1. Submit promptly notifications, reports, certifications, payrolls, and otherwise as may be required, directly to the applicable federal, state, or local governing agency or their representative.
2. Transmit to Contractor for Owner's records one copy of correspondence and transmittals (to include enclosures and attachments) between Subcontractor and governing agency.

F. Test and Inspection Reports:

1. General: Shall contain signature of person responsible for test or report.
2. Field: As a minimum, include the following:
   a. Project title and number.
   b. Date and time.
   c. Record of temperature and weather conditions.
   d. Identification of product and Specification section.
   e. Type and location of test, Sample, or inspection, including referenced standard or code.
   f. Date issued, testing laboratory name, address, and telephone number, and name and signature of laboratory inspector.
   g. If test or inspection deems material or equipment not in compliance with Subcontract Documents, identify corrective action necessary to bring into compliance.
   h. Provide interpretation of test results, when requested by Contractor.
   i. Other items as identified in individual Specification sections.

1.05 SUPPLEMENTS

A. The supplements listed below, following "End of Section", are part of this Specification.

1. Forms: Transmittal of Subcontractor's Submittal

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PART 2 PRODUCTS (NOT USED)

PART 3 EXECUTION (NOT USED)

END OF SECTION

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TRANSMITTAL OF SUBCONTRACTOR'S SUBMITTAL
(ATTACH TO EACH SUBMITTAL)

DATE: _____

TO: _____

_____

_____

_____

_____

Submittal No.: _____

☐ New Submittal ☐ Resubmittal

Project: _____

Project No.: _____

Specification Section No.: _____
(Cover only one section with each transmittal)

Schedule Date of Submittal:

_____

FROM: _____
Subcontractor

_____

_____

_____

SUBMITTAL TYPE: ☐ Shop Drawing ☐ Sample ☐ Informational

The following items are hereby submitted:

Number of Copies	Description of Item Submitted (Type, Size, Model Number, Etc.)	Spec. and Para. No.	Drawing or Brochure Number	Contains Variation to Contract	
				No	Yes

Subcontractor hereby certifies that (i) Subcontractor has complied with the requirements of Subcontract Documents in preparation, review, and submission of designated Submittal and (ii) the Submittal is complete and in accordance with the Subcontract Documents and requirements of laws and regulations and governing agencies.

By: _____
Subcontractor (Authorized Signature)

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SECTION 01 50 00
TEMPORARY FACILITIES AND CONTROLS

PART 1 GENERAL

1.01 REFERENCES

A. The following is a list of organizations with standards that are referenced in this section:

1. National Fire Prevention Association (NFPA): 241, Standard for Safeguarding Construction, Alteration, and Demolition Operations.
2. Occupational Safety & Health Administration (OSHA)
3. U.S. Environmental Protection Agency (USEPA)

1.02 SUBMITTALS

A. Copies of permits and approvals for construction as required by Laws and Regulations and governing agencies.

B. All pre-mobilization plans described in Section 01 31 13, Project Coordination.

1.03 MOBILIZATION

A. Mobilization shall include, but not be limited to, these principal items:

1. Obtaining required permits
2. Moving Subcontractor's field office and equipment
3. Supply Contractor with field office
4. Installing temporary construction power, wiring, and lighting facilities for Contractor and Subcontractor
5. Providing onsite communication facilities, including telephones for Contractor and Subcontractor.
6. Providing onsite sanitary facilities and potable water facilities as specified and as required by Laws and Regulations, and governing agencies for Contractor and Subcontractor.
7. Arranging for and erection of Subcontractor's work and storage yard
8. Posting OSHA required notices and establishing safety programs and procedures.
9. Having Subcontractor's superintendent at Site full time
10. Establishing decontamination facilities
11. Establishing erosion control measures in addition to the silt fence around the perimeter of the Site, as needed.

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1.04 PROTECTION OF WORK AND PROPERTY

A. Keep Contractor informed of near misses, incidents, onsite accidents and related claims.

B. Use of Explosives: No blasting or use of explosives will be allowed onsite.

1.05 VEHICULAR TRAFFIC

A. Traffic Routing Plan: Show sequences of construction affecting use of roadways, time required for each phase of the Work and phasing of operations to provide necessary access, and plans for signing, barricading, and striping to provide passages for pedestrians and vehicles. Include this Traffic Routing Plan as part of the Work Plan described in Section 01 31 13, Project Coordination.

B. Adhere to Traffic Routing Plan reviewed and accepted by Contractor. Changes to this plan shall be made only by written approval of Contractor. Secure approvals for necessary changes so as not to delay progress of the Work.

PART 2 PRODUCTS

2.01 CONTRACTOR'S PERSONAL PROTECTIVE EQUIPMENT

A. Allocate up to $2,500 to provide specialized personal protective equipment to the Contractor, as requested by the Contractor.

PART 3 EXECUTION

3.01 TEMPORARY UTILITIES

A. Power: Determine type and amount available and make arrangements for obtaining temporary electric power service, metering equipment, and pay all costs for electric power used during Subcontract period.

B. Lighting: Provide temporary lighting to meet applicable safety requirements to allow erection, application, or installation of materials and equipment, and observation or inspection of the Work.

C. Heating, Cooling, and Ventilating:

1. Provide as required to maintain adequate environmental conditions to facilitate progress of the Work.
2. Provide adequate forced air ventilation of enclosed areas to prevent hazardous accumulations of dust, fumes, vapors, or gases.

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3. Pay all costs of installation, maintenance, operation, removal, and fuel consumed.
4. Provide portable unit heaters, complete with controls, oil- or gas-fired, and suitably vented to outside as required for protection of health and property.

D. Water: Make arrangements for and bear costs of providing water required for construction purposes, including decontamination, and for drinking by construction personnel during construction.

E. Sanitary and Personnel Facilities: Provide and maintain facilities for Subcontractor's and Sub-subcontractors' employees. Service, clean, and maintain facilities and enclosures.

F. Telephone Service: Subcontractor: Arrange and provide onsite telephone service for use during construction. Pay costs of installation and monthly bills until Subcontract closeout.

G. Fire Protection: Furnish and maintain on Site adequate firefighting equipment capable of extinguishing incipient fires. Comply with applicable parts of NFPA 241.

3.02 PROTECTION OF WORK AND PROPERTY

A. General:

1. Perform Work within right-of-way and easements in a systematic manner that minimizes inconvenience to property owners, others performing work at the site, and the public.
2. No residence or business shall be cut off from vehicular traffic, unless special arrangements have been made.
3. Where completion of the Work requires temporary or permanent removal or relocation of existing utility, coordinate all activities with owner of said utility and perform all work to their satisfaction.
4. Where not slated for demolition, protect, shore, brace, support, and maintain underground pipes, conduits, drains, and other underground utility construction uncovered or otherwise affected by construction operations.
5. Keep fire hydrants and water control valves free from obstruction and available for use at all times.
6. In areas where Subcontractor's operations are adjacent to or near a utility that will remain in service, such as gas, telephone, television, electric power, water, sewer, or irrigation system, and such operations may cause damage or inconvenience, suspend operations until

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arrangements necessary for protection have been made by Subcontractor.

7. Notify property owners and utility offices that may be affected by construction operation at least 3 days in advance by calling the Illinois utility one-call number (JULIE) or utility owner directly as appropriate. Before exposing a utility, obtain utility owner's permission. Should service of utility be interrupted due to Subcontractor's operation, notify proper authority immediately. Cooperate with said authority in restoring service as promptly as possible and bear costs incurred.
8. Do not impair operation of existing sewer system. Prevent construction material, pavement, concrete, earth, volatile and corrosive wastes, and other debris from entering sewers or other sewer structures.
9. Maintain original Site drainage wherever possible.

B. Site Security:

1. If Subcontractor removes fencing along the site perimeter in order to complete the Work, Subcontractor will install and maintain a temporary replacement fence that does not interfere with the Work so that site access is restricted at all times. Once the Work in that area has been completed, Subcontractor will remove the temporary fence and reinstall fencing along the original alignment.
2. Subcontractor will install and maintain orange snow fencing around any open excavation, pit, or tunnel that is greater than one foot in depth and is not actively being excavated or demolished. This includes at the end of every workday even if the work will resume at that location the next day.
3. Contractor will provide 24-hour security at the site during the Work. Owner and Contractor assume no liability for Subcontractor-supplied equipment or materials or recyclable materials already present at the Site that the Subcontractor takes possession of as described in the Subcontract Documents.
4. Provide and maintain additional temporary security fences as necessary to protect the Work.

C. Barricades and Lights:

1. Provide as required by applicable federal, state, and local regulations and in sufficient quantity to safeguard public and the Work.
2. Provide as necessary to prevent unauthorized entry to construction areas and affected roads, streets, and alleyways, inside and outside of fenced area, and as required to ensure public safety and the safety of Subcontractor's employees, other employer's employees, and others who may be affected by the Work.

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3. Provide to protect existing facilities and adjacent properties from potential damage.
4. Locate to enable access by facility operators and property owners.
5. Protect streets, roads, highways, and other public thoroughfares that are closed to traffic by effective barricades with acceptable warning signs.
6. Locate barricades at the nearest intersecting public thoroughfare on each side of the blocked section.
7. Illuminate barricades and obstructions with warning lights from sunset to sunrise.

D. Signs and Equipment:

1. Provide at obstructions, such as material piles and equipment.
2. Use to alert general public of construction hazards, which would include surface irregularities, unramped walkways, grade changes, and trenches or excavations in roadways and in other public access areas.

E. Trees and Plantings: To the extent possible, the Subcontractor shall minimize the impact of remedial activities to existing flora.

F. Existing Structures:

1. Where Subcontractor contemplates removal of small structures such as mailboxes, signposts, and culverts that interfere with Subcontractor's operations, obtain approval of property owner and Contractor.
2. Replace items removed in their original location and a condition equal to or better than original.

G. Waterways: Keep ditches, culverts, and natural drainages continuously free of construction materials and debris.

3.03 TEMPORARY CONTROLS

A. Air Pollution Control:

1. Minimize air pollution from construction operations.
2. Burning: Of waste materials, rubbish, or other debris will not be permitted on or adjacent to Site.
3. Conduct operations of dumping debris and of carrying debris away in trucks to cause a minimum of dust. Give unpaved streets, roads, detours, or haul roads used in construction area a dust-preventive treatment or periodically water to prevent dust. Strictly adhere to applicable environmental regulations for dust prevention.

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B. Noise Control: Provide acoustical barriers so noise emanating from tools or equipment will not exceed legal noise levels.

C. Water Pollution Control:

1. Comply with procedures outlined in U.S. Environmental Protection Agency manuals entitled, "Guidelines for Erosion and Sedimentation Control Planning" and "Implementation, Processes, Procedures, and Methods to Control Pollution Resulting from All Construction Activity," and "Erosion and Sediment Control-Surface Mining in Eastern United States."
2. Do not dispose of volatile wastes such as mineral spirits, oil, chemicals, or paint thinner in storm or sanitary drains. Disposal of wastes into streams or waterways is prohibited. Provide acceptable containers for collection and disposal of waste materials, debris, and rubbish.

D. Erosion, Sediment, and Flood Control: Provide, maintain, and operate temporary facilities to control erosion and sediment releases, and to protect the Work and existing facilities from flooding during construction period in accordance with the approved Water Control Plan.

1. Take precautions not to damage existing erosion control devices, including the silt fence installed around the Site perimeter.
2. During times that Subcontractor is mobilized to site, Subcontractor shall inspect the entire perimeter silt fence once per week and repair any damage regardless of cause of damage.

3.04 PARKING AREAS

A. Control vehicular parking to preclude interference with public traffic or parking, access by emergency vehicles, or operations of other subcontractors.

3.05 VEHICULAR TRAFFIC

A. Comply with Laws and Regulations regarding closing or restricting use of public streets or highways. No public or private road shall be closed, except by written permission of proper authority. Assure the least possible obstruction to traffic and normal commercial pursuits.

B. Conduct the Work to interfere as little as possible with public travel, whether vehicular or pedestrian.

C. Whenever it is necessary to cross, close, or obstruct roads, driveways, and walks, whether public or private, provide and maintain suitable and safe

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bridges, detours, or other temporary expedients for accommodation of public and private travel.

D. Provide snow removal to facilitate normal vehicular traffic on public or private roads affected by construction. Perform snow removal promptly and efficiently by means of suitable equipment whenever necessary for safety, and as may be directed by proper authority.

E. Notify fire department and police department before closing street or portion thereof. Notify said departments when streets are again passable for emergency vehicles. Do not block off emergency vehicle access to consecutive arterial crossings or dead-end streets, in excess of 300 linear feet, without written permission from fire department. Conduct operations with the least interference to fire equipment access, and at no time prevent such access. Furnish night emergency telephone numbers to police and fire departments.

F. Coordinate traffic routing with that of others working in same or adjacent areas.

3.06 CLEANING DURING CONSTRUCTION

A. In accordance with General Terms and Conditions, as may be specified in other Specification sections, and as required herein.

B. Provide approved containers for collection and disposal of waste materials, debris, and rubbish. At least at weekly intervals, dispose of such waste materials, debris, and rubbish offsite.

C. At least once daily, and as directed by Contractor, brush sweep entry drive, roadways, and all other streets and walkways affected by the Work and where adjacent to the Work.

3.07 DEMOBILIZATION

A. Upon substantial completion of Work, Subcontractor shall demobilize from the Former Eagle Zinc site. Demobilization includes:

1. Disconnection of utilities set up by Subcontractor, unless otherwise directed by Contractor.
2. Removal of Subcontractor's temporary offices and any supply facilities from the Site.
3. Removal of Subcontractor's equipment, supplies, materials, and personnel from the Site.

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B. Subcontractor shall complete closeout punchlist described in Section 01 77 00, Closeout Procedures.

END OF SECTION

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SECTION 01 77 00
CLOSEOUT PROCEDURES

PART 1 GENERAL

1.01 SUBMITTALS

A. Submit prior to Final Application for Payment:

1. Record Documents: As required in General Terms and Conditions.
2. Special bonds, Special Guarantees, and Service Agreements.
3. Consent of Surety to Final Payment: As required in General Terms and Conditions.
4. Releases or Waivers of Liens and Claims: As required in General Terms and Conditions.
5. Releases from Agreements.
6. All disposal documentation for the following (if not submitted previously):
   a. Universal waste.
   b. Recycled material.
   c. Landfilled material.
   d. Liquids disposed of offsite.
   e. Tonnages of all steel.

B. Final Application for Payment: Submit in accordance with procedures and requirements stated in Section 01 29 00, Payment Procedures.

1.02 RECORD DOCUMENTS

A. Quality Assurance:

1. Furnish qualified and experienced person, whose duty and responsibility shall be to maintain record documents.
2. Accuracy of Records:
   a. Coordinate changes within record documents, making legible and accurate entries on each sheet of Drawings and other documents where such entry is required to show change.
   b. Purpose of Project record documents is to document factual information regarding aspects of the Work, both concealed and visible, to enable future modification of the Work to proceed without lengthy and expensive Site measurement, investigation, and examination.

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3. Make entries within 24 hours after receipt of information that a change in the Work has occurred.
4. Prior to submitting each request for progress payment, request Contractor's review and approval of current status of record documents. Failure to properly maintain, update, and submit record documents may result in a deferral by Contractor to recommend whole or any part of Subcontractor's Application for Payment, either partial or final.

1.03 RELEASES FROM AGREEMENTS

A. Furnish Contractor written releases from property owners or public agencies where side agreements or special easements have been made, or where Subcontractor's operations have not been kept within the Owner's construction right-of-way.

B. In the event Subcontractor is unable to secure written releases:

1. Inform Contractor of the reasons.
2. Contractor or its representatives will examine the Site, and Contractor will direct Subcontractor to complete the Work that may be necessary to satisfy terms of the side agreement or special easement.
3. Should Subcontractor refuse to perform this Work, Contractor reserves right to have it done by separate contract and deduct cost of same from Subcontract Price, or require Subcontractor to furnish a satisfactory bond in a sum to cover legal Claims for damages.
4. When Contractor is satisfied that the Work has been completed in agreement with Subcontract Documents and terms of side agreement or special easement, right is reserved to waive requirement for written release if: (i) Subcontractor's failure to obtain such statement is due to grantor's refusal to sign, and this refusal is not based upon any legitimate Claims that Subcontractor has failed to fulfill terms of side agreement or special easement, or (ii) Subcontractor is unable to contact or has had undue hardship in contacting grantor.

PART 2 PRODUCTS (NOT USED)

PART 3 EXECUTION

3.01 FINAL CLEANING

A. At completion of the Work or of a part thereof and immediately prior to Subcontractor's request for certificate of Substantial Completion; or if no

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certificate is issued, immediately prior to Subcontractor's notice of completion, clean entire Site or parts thereof, as applicable.

1. Leave the Work and adjacent areas affected in a cleaned condition satisfactory to Contractor.
2. Sweep sidewalks, loading areas, and others contiguous with principal structures.
3. Leave water courses, gutters, and ditches open and clean.

3.02 CLOSEOUT PUNCHLIST

A. Prior to submittal of Final Application for Payment, the Subcontractor shall do a sitewalk with the Contractor's onsite representative. The purpose of this sitewalk will be for the Contractor to develop a punchlist of items that the Subcontractor shall perform prior to the Work as described in these Subcontract Documents being considered complete. The Subcontractor shall complete all punchlist items before submitting its Final Application for Payment.

END OF SECTION

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SECTION 02 41 00
DEMOLITION

PART 1 GENERAL

1.01 REFERENCES

A. The following is a list of standards which may be referenced in this Section:

1. American National Standards Institute (ANSI): A10.6, Safety Requirements for Demolition Operations.
2. Occupational Safety and Health Administration (OSHA), U.S. Code of Federal Regulations (CFR) Title 29 Part 1926—Occupational Safety and Health Regulations for Construction.
3. Environmental Protection Agency (EPA), U.S. Code of Federal Regulations (CFR), Title 40:
   a. Part 61—National Emission Standards for Hazardous Air Pollutants
   b. Part 82—Protection of Stratospheric Ozone
   c. Part 273—Standards for Universal Waste Management
   d. Part 761—Polychlorinated Biphenyls (PCBs) Manufacturing, Processing, Distribution in Commerce, and Use Prohibitions

1.02 DEFINITIONS

A. ACM: Asbestos-containing material.

B. Contaminated Materials: Soil or building materials resulting from Demolition, including concrete, bricks, cinderblocks, etc. that the Contractor has determined exhibits contamination less than TSCA levels and that will be disposed of offsite at a RCRA Subtitle D landfill.

C. Demolition: Dismantling, razing, destroying, or wrecking of any fixed building or structure or any part thereof.

D. Equipment: Salvageable equipment of which the Subcontractor takes ownership.

E. Hazardous Waste: Hazardous waste is as defined in 40 CFR 261.3.and 35 Illinois Administrative Code (IAC) Part 721.

F. Modify: Provide all necessary material and labor to modify an existing item to the condition indicated or specified.

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G. Non-Contaminated Materials: Building materials (concrete, cinderblocks, or bricks with no salvage value) resulting from Demolition that the Contractor has determined to be non-contaminated. Subcontractor shall be responsible for transporting Non-Contaminated Materials generated during Demolition to the consolidation cell to be constructed (by others) at the southwest corner of the site.

H. RACM: Regulated asbestos-containing material.

I. Salvage/Salvageable: Remove the equipment, building materials, or other items to be saved from destruction, damage, or waste; such property to become that of Subcontractor. Unless otherwise specified, title to items identified for Demolition shall revert to Subcontractor.

J. Salvageable Metal: Steel or other metals resulting from Demolition of which the Subcontractor takes ownership and which can be decontaminated to remove all traces of PCBs.

K. Special Waste: Special Waste is as defined in 35 Illinois Administrative Code (IAC) Part 808.

L. Trash: Miscellaneous glass, wood, plastic, paper, and other debris resulting from Demolition that will be disposed of offsite at a RCRA Subtitle D landfill.

M. Universal Waste Lamp: In accordance with 40 CFR 273, the bulb or tube portion of an electric lighting device, examples of which include, but are not limited to, fluorescent, high-intensity discharge, neon, mercury vapor, high-pressure sodium, and metal halide lamps.

N. Universal Waste Thermostat: A temperature control device that contains metallic mercury in an ampule attached to a bimetal sensing element, and mercury-containing ampules that have been removed from these temperature control devices in compliance with the requirements of 40 CFR 273.

1.03 SUBMITTALS

A. Submit proposed Demolition Plan, in accordance with requirements specified herein, for approval before such Work is started. This plan can be incorporated as part of the Work Plan specified in Section 01 31 13, Project Coordination.

B. Submit copies of any notifications, authorizations and permits required to perform the Work.

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1.04 REGULATORY AND SAFETY REQUIREMENTS

A. When applicable, Demolition Work shall be accomplished in strict accordance with 29 CFR 1926-Subpart T.

B. Comply with federal, state, and local hauling and disposal regulations. In addition to the requirements of the General Terms and Conditions, Subcontractor's safety requirements shall conform to ANSI A10.6.

C. Furnish timely notification of this Demolition project to applicable federal, state, regional, and local authorities in accordance with 40 CFR 61, Subpart M.

D. Comply with any other applicable federal, state, and local regulations.

1.05 DEMOLITION PLAN

A. Demolition Plan shall provide for safe conduct of the Work and shall include:

1. Detailed description of procedures and equipment to be used for each operation
2. The Subcontractor's planned sequence of operations, including coordination with other work in progress
3. Mobilization/site setup
4. Construction of temporary access roadways and ramps
5. Erosion protection, dust and vapor control
6. Universal waste removal and disposal
7. Decontamination of Building Materials
8. Building demolition
9. Decontamination of structural steel
10. Demolition materials staging and disposal
11. Procedures for removal and disposition of materials to be salvaged
12. Procedures for identification, removal, and disposal of any RACM that was not removed during previous abatement activities. This work shall be performed by individuals with the appropriate certifications and/or licenses. Procedures must comply with the requirements of 40 CFR 61, Subpart M.
13. Demobilization

1.06 SEQUENCING AND SCHEDULING

A. The Work of this Specification shall not commence until Subcontractor's Demolition Plan has been approved by Contractor.

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B. Include the Work of this Specification in the progress schedule, as specified in Section 01 32 00, Construction Progress Documentation.

1.07 SUPPLEMENTS

A. The supplements listed below, following "End of Section," are part of this Specification.

1. Hazardous Materials Survey

PART 2 PRODUCTS (NOT USED)

PART 3 EXECUTION

3.01 BUILDING DECONTAMINATION

A. Decontamination of the building materials is required prior to demolition. Decontamination of structural steel for recycling is required, but this can be done on individual pieces of steel after demolition. If the Subcontractor elects to perform limited decontamination as necessary for demolition, payment for such decontamination shall be included in the lump sum price for demolition. Such decontamination shall be done as follows:

1. Perform decontamination using a pressure washer or other method approved by the Contractor.
2. Collect all liquids generated during decontamination operations and dispose of them according to Section 02 42 00, Disposal.
3. Subcontractor personnel shall wear appropriate personal protective equipment during decontamination activities.

3.02 EXISTING FACILITIES TO BE DEMOLISHED

A. All existing buildings at the Site will be demolished.

B. Structures:

1. Existing above-grade structures shall be removed to the top of the foundation.
2. Walls shall be removed to the top of the concrete slab on grade.

C. Floor Slabs:

1. Subcontractor shall leave all at grade floor slabs intact.
2. Subcontractor shall leave intact any portion of walls that are below the elevation of the top of the floor slab.

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D. Utilities and Related Equipment: Verify with each utility company that all utilities (including, but not limited to, electric, telephone, natural gas, water, storm sewer, and sanitary sewer) are not active or live. Provide written confirmation, for each utility, to the Contractor prior to the Pre-construction meeting. Subcontractor shall not begin any demolition activities without Contractor approval.

1. Electricity:
   a. There is no active electric service to the site.
2. Water, Telecommunications, and Gas Service:
   a. There is one water line, one telephone line and one gas line to the site, which must be properly disconnected prior to demolition activities.
   b. Remove existing utilities encountered during Demolition and terminate in a manner conforming to the nationally recognized code covering the specific utility and approved by Contractor.

E. Tanks and Vessels: If undocumented tanks and vessels are encountered during Demolition, the Subcontractor shall notify Contractor immediately for direction on how to proceed.

F. Air-Conditioning Equipment:

1. Remove air-conditioning equipment without releasing chlorofluorocarbon refrigerants to the atmosphere in accordance with the Clean Air Act Amendment of 1990.
2. Recover all refrigerants prior to removing air-conditioning equipment and dispose of as Ozone Depleting Substances (ODS) specified elsewhere in this section.

G. Cylinders and Canisters: Remove all fire suppression system cylinders and canisters and dispose of as ODS.

H. Universal Waste Lamps: Manage, contain, package, and label in strict accordance with 40 CFR 273 and any additional state and local regulations.

I. Universal Waste Thermostats: Manage, contain, package, and label in strict accordance with 40 CFR 273 and any additional state and local regulations.

J. Lead-Based Paint:

1. A hazardous materials survey was conducted for the buildings to be demolished. A copy of this survey is included as a supplement to this section. Subcontractor shall consult this document to determine if paint in an area of the building is lead based.

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2. Lead-based paint that is adhered to the substrate does not require removal. The item can be handled as construction debris unless PCB concentrations dictate other handling and disposal requirements.

3.03 PROTECTION

A. Dust Control:

1. If at any time dust from any source related to construction activities becomes airborne by wind or construction activity, the Subcontractor shall apply water to the dust areas in amounts required to settle the dust and prevent it from blowing.
2. Asbestos removal (with the exception of roofing materials and in areas that have not been sampled in the structurally unsound Buildings E and southern portion of M) will have already been performed by others when Demolition begins. However, the Subcontractor shall have an employee who is certified and/or trained in identifying ACM and RACM working at the site, and this employee shall observe Demolition activities and verify that no RACM is present.
3. If RACM is identified, the Subcontractor shall notify Contractor. Upon Contractor's approval, Subcontractor shall proceed with Demolition, incorporating the appropriate procedures for managing RACM established in the approved Demolition Plan.

B. Traffic Control Signs: Where pedestrian and driver safety is endangered in the area of removal Work, use traffic barricades with flashing lights.

C. Existing Work:

1. Visually assess the site and examine the Drawings and Specifications to determine the extent of the Work before beginning any Demolition or renovation.
2. Take necessary precautions to avoid damage to existing items scheduled to remain in place, to be reused, or to remain the property of Owner; any Subcontractor-damaged items shall be repaired or replaced as directed by Contractor.
3. Ensure that structural elements are not overloaded as a result of or during performance of the Work. Responsibility for additional structural elements or increasing the strength of existing structural elements as may be required as a result of any Work performed under this Contract shall be that of the Subcontractor. Repairs, reinforcement, or structural replacement must have Contractor approval.
4. Do not overload pavements to remain.
5. Protect electrical and mechanical services and utilities to be left in place.

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6. Protect all facility elements not scheduled for Demolition.

D. Protection of Personnel:

1. During Demolition, continuously evaluate the condition of the structure being demolished and take immediate action to protect all personnel working in and around the Demolition site.
2. Provide temporary barricades and other forms of protection to protect subcontractors and others from injury due to Demolition Work.
3. Provide protective measures as required to provide free and safe passage of Contractor's personnel and others to occupied portions of the structure.

3.04 SALVAGEABLE METAL DECONTAMINATION

A. Separate Salvageable Metal from other materials during Demolition activities.

B. Decontamination of Salvageable Metal may be accomplished by spraying, soaking, wiping, scraping, or the use of abrasives or solvents or any other method approved by the Contractor.

C. Dispose of decontamination waste and residues in accordance with 40 CFR 761.79(g).

D. Following confirmation of decontamination from the Contractor, transport and dispose of the decontaminated Salvageable Metal at a metal recycling facility.

3.05 NON-CONTAMINATED MATERIALS

A. Subcontractor shall segregate all materials identified by Contractor as Non-Contaminated Materials. Such materials shall be transported to the onsite consolidation cell.

B. The maximum size requirement for Non-Contaminated Materials is 2-foot by 2-foot.

3.06 BURNING

A. The use of burning at the Site for the disposal of refuse and debris will not be permitted.

3.07 TITLE TO MATERIALS

A. Title to equipment (Salvageable Equipment) and materials resulting from Demolition is vested in the Subcontractor upon approval by Contractor of

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Subcontractor's Demolition Plan, and the resulting authorization by Contractor to begin Demolition.

B. If decontamination of Salvageable Equipment is necessary, Subcontractor shall perform decontamination as follows:

1. Perform decontamination using a steam cleaner or other method approved by the Contractor.
2. Collect all liquids generated during decontamination operations and containerize, characterize, and dispose of liquids according to Section 02 42 00, Disposal.
3. Subcontractor personnel shall wear appropriate personal protective equipment during decontamination activities.

3.08 DISPOSITION OF MATERIAL

A. Do not remove equipment and materials without approval of Subcontractor's Demolition Plan by Contractor.

B. Salvage or recycle equipment and material to the maximum extent possible.

C. Store salvaged items as approved by Contractor, and remove them from Site before completion of the Subcontract.

D. Dispose of materials in accordance with Section 02 42 00, Disposal.

3.09 SPECIALIZED SALVAGE

A. Ozone Depleting Substances (ODS):

1. Class I and Class II ODS are defined in Section 602(a) and (b), of The Clean Air Act. Prevent discharge of Class I and Class II ODS to the atmosphere. Place recovered ODS in cylinders meeting ARI Guideline K suitable for the type ODS (filled to no more than 80 percent capacity) and provide appropriate labeling.
2. Dispose of all Class I and Class II ODS refrigerants in accordance with the Clean Air Act Amendment of 1990.
3. Products, equipment and appliances containing ODS in a sealed, self-contained system (e.g., residential refrigerators and window air conditioners) shall be disposed of in accordance with 40 CFR 82.

B. Fire Suppression Containers: Fire suppression system cylinders and canisters with electrical charges or initiators shall be deactivated prior to shipment. Also, safety caps shall be used to cover exposed actuation mechanisms and discharge ports on these special cylinders.

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END OF SECTION

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SECTION 02 42 00
DISPOSAL

PART 1 GENERAL

1.01 DEFINITIONS

A. ACM: Asbestos-containing material.

B. Contaminated Materials: Soil or building materials resulting from Demolition, including ceiling panel concrete, brick, cinderblocks, etc. that the Contractor has determined exhibits contamination less than TSCA levels and that will be disposed offsite at a RCRA Subtitle D landfill.

C. Demolition: Dismantling, razing, destroying, or wrecking of any fixed building or structure or any part thereof.

D. Equipment: Salvageable equipment present onsite of which the Subcontractor takes ownership.

E. Non-Contaminated Materials: Building materials (ceiling panel concrete, cinderblocks, or bricks with no salvage value) resulting from Demolition that Contractor has determined to be non-contaminated and that can be stockpiled separately. These materials will be reduced to 2-foot minus and placed in open excavations onsite by a separate subcontractor.

F. RACM: Regulated Asbestos-containing material.

G. Salvageable Metal: Steel or other metals resulting from Demolition of which the Subcontractor takes ownership and which can be decontaminated for PCBs and lead-based paint.

H. Trash: Miscellaneous glass, wood, plastic, paper, and other debris resulting from Demolition that will be disposed of offsite at a RCRA Subtitle D landfill.

I. Universal Waste Lamp: In accordance with 40 CFR 273, the bulb or tube portion of an electric lighting device, examples of which include, but are not limited to, fluorescent, high-intensity discharge, neon, mercury vapor, high-pressure sodium, and metal halide lamps.

J. Universal Waste Thermostat: A temperature control device that contains metallic mercury in an ampule attached to a bimetal sensing element, and mercury-containing ampules that have been removed from these temperature control devices in compliance with the requirements of 40 CFR 273.

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1.02 DESCRIPTION OF WORK

A. The Subcontractor shall be responsible for disposal of all materials generated during or associated with its portion of the Work, including, but not limited to, soil and water from precipitation events and decontamination activities.

B. The Subcontractor shall be responsible for and provide all equipment, materials, personnel, and pay for all waste approval charges, tipping fees, disposal charges, taxes, and other costs to dispose of all waste from this project and other material as designated by the Contractor in accordance with these specifications. Subcontractor's responsibility includes preparing necessary waste profiles and manifests and land disposal notifications for the Contractor's or the USEPA's signature and obtaining necessary clearances and approvals from disposal facilities and state agencies.

1.03 SUBMITTALS

A. After Award and before the Notice to Proceed is issued, the Subcontractor shall submit a certification that the disposal facility(ies) meets the requirements of this specification. The certification shall include the following additional items, at a minimum: facility name, owner name, address, contact name, phone number, and state operating permit number. The disposal facility(ies) is subject to USEPA approval.

B. Prior to transportation and offsite disposal, Subcontractor shall complete waste profiles for all materials to be disposed offsite and forward these to Contractor. Contractor will review and forward to USEPA to obtain a signature.

C. Submit all manifests required for disposal to the Contractor for signature on behalf of the USEPA prior to removing Contaminated Materials, Trash, Universal Waste Lamps, or Universal Waste Thermostats from the Site. All manifest forms shall be complete when presented to the Contractor for signature, with no information incomplete (i.e., all blanks shall be filled in). The format of the manifest forms shall be acceptable to the Contractor. Manifest shall be four part forms and shall include the following information at a minimum:

1. Manifest number (sequential).
2. Generator information:
   a. Generator name
   b. USEPA ID Number
   c. Site address
   d. Site contact numbers
   e. County of origin

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f. Billing address
g. Description of Waste
h. Waste profile number.
i. Generator authorized agent (typed as directed)
j. Generator authorized agent (signature)
k. Date

3. Transporter information:
   a. Transporter name
   b. Transporter address
   c. Transporter phone number
   d. Truck number
   e. Driver name (printed)
   f. Driver signature certifying pickup at the site
   g. Date of pickup
   h. Driver signature certifying delivery to disposal facility
   i. Date of delivery
4. T/S/D/F information:
   a. Name of facility
   b. Address of facility
   c. Phone # of facility
   d. Name of authorized agent (printed)
   e. Authorized agent signature
   f. Date material received

D. Prior to removal of any wastes from the site, submit a certification from the landfill that the materials from the Site will be accepted. The certification letter shall include a list of the acceptance criteria the landfill will use in determining whether the loads of contaminated wastes will be accepted or rejected.

E. Submit certificates of disposal for all wastes shipped as non-hazardous waste, hazardous waste or shipped to TSCA-permitted landfills.

F. Submit a copy of manifests and weight tickets for all loads of materials, including equipment, salvageable items and salvageable metal, weighed on a certified scale at the disposal facility prior to disposal. All weight tickets must be stamped by the disposal facility and list the date, time, gross weight, tare weight, net weight, truck identification number, and hauling company name.

G. Submit a corresponding weight ticket for all loads of materials from the onsite truck scale to the Contractor within 24 hours of the truck departing the Site.

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1.04 SUPPLEMENTS

A. The supplements listed below, following "End of Section," are part of this Specification.

1. Table showing alternatives for disposal of structural steel

PART 2 PRODUCTS

2.01 TRANSPORT CONTAINERS

A. The Subcontractor shall provide and maintain empty transport containers and a vehicle(s) for transport of all materials offsite.

B. Provide transport containers that are sealed or lined to prevent spillage or leakage of materials or leachate from the materials at any time during filling or after full. Vehicles shall meet all local, state and federal regulations for transport of wastes.

C. Transport containers shall have covers for use during transport and storage to prevent the release of contaminated wastes or leachate from the containers and prevent precipitation from entering. The covers shall be in place and secure before leaving the Site.

PART 3 EXECUTION

3.01 STOCKPILING OF MATERIALS

A. Subcontractor shall maintain stockpiles of materials in an orderly manner. Materials classified as Non-Contaminated Materials and Contaminated Materials shall be maintained separately during and after demolition activities.

B. Subcontractor shall employ best management practices when stockpiling materials to minimize dust generation from operations and prevent erosion and stormwater runoff. Such best management practices shall include lining and berming stockpiles and covering stockpiles at the end of each work day. Subcontractor shall include methods of maintaining stockpiles in its Work Plan, which is described in Section 01 31 13, Project Coordination.

3.02 LOADING OF MATERIALS DESIGNATED FOR OFFSITE DISPOSAL

A. The Subcontractor shall prepare manifest forms and/or shipping papers for all wastes leaving the site in accordance with applicable regulations and the TSD facility's requirements. A USEPA employee or designee will sign the manifests for wastes leaving the site. The Subcontractor shall be responsible

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for tracking the manifests and shipping papers and shall immediately notify the Contractor of any problems in completing shipments and disposal of wastes. The Subcontractor shall provide written evidence in the form of properly completed manifests that all waste material has been properly managed. All manifests, weight tickets, and shipping papers shall be provided to the Contractor within 48 hours of shipment.

B. Each transport container shall be visually inspected by the Subcontractor for leaks, rips, or container damage prior to being loaded. Transport containers which are found to be leaking or damaged shall not be loaded until the damage is repaired. The Subcontractor shall prepare transport containers to prevent spillage or contamination.

C. All vehicles, personnel, and equipment shall be decontaminated at a designated decontamination pad before leaving the Site.

3.03 HAULING OF MATERIALS DESIGNATED FOR OFFSITE DISPOSAL

A. Contain all wastes via proper transport containers and covers and transport wastes in hauling vehicles from the Subcontractor's Work Area to the disposal facilities. Acquire all permits, and meet all applicable standards and regulations for hauling these materials over public roads.

B. The Subcontractor shall be responsible for loading, labeling, placarding, marking, and transporting all wastes in accordance with applicable Federal, state, and local regulations.

C. The haul routes from the decontamination pad to the offsite roads are to be maintained as clean access roads. The Subcontractor shall maintain the roads as such at all times. Spillage that occurs shall be cleaned up immediately by the Subcontractor.

D. The Subcontractor shall coordinate vehicle inspection before leaving the Site with the Contractor. Quantities shall be recorded prior to leaving the Site and at the disposal facilities.

E. Use only transporters that are licensed to haul the wastes specified.

F. The Subcontractor will also be responsible for transport of empty transport containers and transport vehicle(s) from the disposal facility back to the Site.

G. The maximum number of trucks onsite awaiting loading of materials for transport offsite shall be five. Under no circumstances shall trucks be waiting outside the site entrance in the morning before the gate is unlocked or in the evening after work for the day is done.

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3.04 OFFSITE DISPOSAL FACILITIES

A. Dispose of materials designated for offsite disposal as follows:

1. Equipment and Salvageable Items: Recycle or salvage offsite as appropriate.
2. Salvageable Metal: Recycle, smelt, or landfill as appropriate.
3. Trash and Contaminated Materials: Dispose at a RCRA Subtitle D landfill.
4. Universal Waste Lamps and Universal Waste Thermostats: Dispose in accordance with 40 CFR 273 and Title 35, Section 733 of the Illinois Administrative Code.

B. Determination of materials classification for offsite disposal:

1. The Contractor will determine the classification of all materials in the building prior to demolition. Subcontractor shall keep materials segregated following demolition based upon these classifications.
2. Contractor will determine classification of Salvageable Metal prior to demolition in accordance with the categories described in Table 02 42 00, which is included as a supplement to this section.
3. Subcontractor shall collect, analyze, and provide to Contractor confirmation samples of decontaminated unpainted Salvageable Metal to verify it can be recycled. A minimum of one wipe sample for every 20 tons shall be collected.
4. Alternatively, if NACE Visual Standard No. 2, Near White Blast Cleaned Surface Finish, applies, Subcontractor shall provide Contractor with evidence of appropriate training and/or experience for the employee who will be determining compliance with that standard. Contractor will also visually inspect decontaminated steel to verify it meets that standard.

C. Dispose of contaminated wastes in accordance with applicable local, state, and federal requirements.

D. Selection of a disposal facility that meets these requirements is the responsibility of the Subcontractor. However, the Subcontractor must obtain prior approval from USEPA for each disposal facility that accepts materials from the Site.

E. If hazardous wastes, beyond those identified in the Subcontract Documents, are encountered, notify Contractor immediately. Subcontractor shall dispose of said wastes in accordance with applicable local, state, and federal requirements.

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F. Contractor has collected and analyzed some waste profile samples. If disposal facilities require additional information, Subcontractor shall perform the additional testing. Subcontractor shall be responsible for ensuring the acceptance of the waste material at the approved disposal facility and that the facility provides the appropriate disposal service.

G. All waste shall be delivered directly to the landfill after leaving the site. No overnight storage shall be permitted. Should an emergency arise and overnight storage be necessary, notify the Contractor immediately.

H. Any RACM encountered during Demolition that was not abated by the Asbestos Subcontractor shall be handled, transported, and disposed of in accordance with 29 CFR 1910.134; 29 CFR 1910.1001; 29 CFR 1926.1101; 40 CFR 61, Subpart M; Title 77, Section 855.220 of the Illinois Administrative Code; and any other state, local, and federal codes which regulate such work.

3.05 ONSITE DISPOSAL OF MATERIALS

A. Contractor will determine if materials can be classified as Non-Contaminated Materials.

B. Non-Contaminated Materials (concrete, bricks, and cinderblock) that are not floor slab concrete will be segregated from other materials. Subcontractor shall then size them to 2-foot minus and transport to the onsite consolidation cell for disposal. Subcontractor is responsible for grading material placed in consolidation cell as directed by Contractor.

3.06 DISPOSAL OF LIQUIDS

A. Liquids anticipated to be generated or encountered during the remedial activities include, but are not necessarily limited to:

1. Water from precipitation events that contacts stockpiles of Contaminated Materials
2. Water from building decontamination activities
3. Water from equipment and personnel decontamination activities
4. Oily liquids present in small quantities (<1 gallon) in discrete locations within the building.

B. All liquids generated and encountered during execution of the Work shall be containerized, characterized as necessary for disposal, and disposed offsite at an appropriate facility.

END OF SECTION

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