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**Ulah Battery Site
Strickland Property Cleanup
Work Plan
Dinah Road, Asheboro, NC**

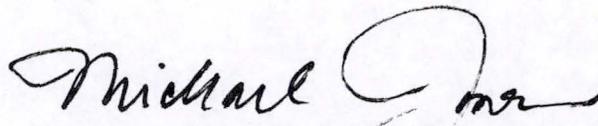
NCD 981864616

Date Prepared : May 17, 2011

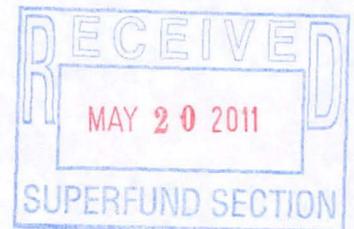
Prepared For :

**Mr. Jerry Holder
Klaussner Home Furnishings, Asheboro, NC
405 Lewallen Road, Asheboro, NC 27205**

Report prepared by:



**Michael G. Jones, PG, RSM
NC License #1168**



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May 17, 2011

Keith Snavely, Project Manager
Inactive Hazardous Sites Branch (IHSB)
NC DENR - Division of Waste Management
401 Oberlin Road
Raleigh, NC 27605

**Reference : Ulah Battery Site : Strickland Property Work Plan
For Klaussner Home Furnishings, Asheboro, NC
Project Location : Dinah Road, Asheboro, Randolph County, NC
NCD 981864616**

Mr. Snavely,

As requested by Mr. Jerry Holder of Klaussner Home Furnishings, Pyramid Environmental & Engineering, P.C. has reviewed the information concerning the Ulah Battery site, and prepared this response to cleanup concerns from the IHSB program and EPA Region IV. This letter presents the research, evaluation of existing soil and water data, and proposed cleanup plan for the site.

1.0 Project Requirements

In early March 2011, Pyramid met with Jerry Holder of Klaussner Home Furnishings (Klaussner) at the Ulah Battery site on Dinah Road. The goal of the project is to comply with the EPA Region IV request for Klaussner to perform soil excavation and cleanup on land they own near the former battery cracking operations. The specific property is the property named the Strickland property which is at the northwest corner of the intersection of Dinah Road and Business Hwy 220, south of Asheboro, NC. The site location is shown on the figures in **Attachment A**, the 2009 report prepared for the IHSB Program. In this report, the IHSB proposed soil cleanup on the Strickland property of approximately 583 tons.

The purpose of this letter is to provide the plans Klaussner will implement to make sure that the lead (Pb) contaminated soil is removed from the target property and that the wastes are handled as required by the State and Municipal authorities.

2.0 Project Contacts

The cleanup project is being coordinated with the EPA and IHSB to assure that once the work is completed, the property can be released from further regulatory requirements and the regulatory incident closed. The contacts involved in the cleanup process are;

US EPA Region IV Contact : Jeffery Crowley (404) 562-9587

NC DENR IHSB Contact : Keith Snavely (919) 508-8479

Klaussner Contact : Jerry Holder (336) 625-7804

Pyramid Contact : Mike Jones, LG, RSM (336) 335-3174

The intent is to cooperatively arrive at the best possible solution for the site and complete removal of all waste materials. The cleanup required for the site is being conducted as a responsible party action and is not within the IHSB Registered Environmental Consultant (REC) program. However, the intent is to address all of the concerns of the IHSB program so that the path to regulatory closure of this incident can be successfully concluded.

3.0 Project Goals

Klaussner and the EPA have been discussing the cleanup operation for the past several years. The property in question was purchased by Klaussner in 2000 with the assurance that no cleanup would be required by the property owner (Klaussner). In the past few years, arbitration between Klaussner and the EPA has not resolved the question of financial obligations for the final cleanup operations at the site. In an E-mail dated May 26, 2010, the EPA stated that Klaussner is required to :

- Cleanup of contaminated soils identified as Area 3 on the Klaussner property at the NW corner of the intersection of Dinah and Highway 220 Business. The former Strickland property is referred to as Area 3 in the 2009 report prepared by the IHSB and presented as **Attachment A**.
- The EPA also requests that Klaussner provide the boundary survey showing that Area 4 is not located on the Klaussner property. It appears that this is the case, but EPA requires the official survey to make the final determination.
- The EPA also requests that the Klaussner provide a written plan for sampling and soil removal/cleanup.

The E-mail is presented in **Attachment B**. To accomplish the required cleanup, Pyramid has completed the following research, sampling plan, and proposed cleanup planning for the site. The details to the plan are presented in the following sections.

4.0 Research of US EPA and IHSB Records

Pyramid discussed the need to review the EPA and IHSB files with Klausner and was authorized to copy the information at the Oberlin Road location. In March 2011, Pyramid reviewed and copied selected information in the IHSB file. Much of the analytical data was copied to provide evidence that the early EPA work addressed concerns about chemicals and metals other than lead. The data are discussed in the following sections as they relate to the questions specifically asked by the IHSB for the site.

5.0 IHSB Requirements

In March, Pyramid discussed the project in general terms with both the EPA (Jeff Crowley) and Keith Snavely of the IHSB Program. Pyramid was requested to address several concerns of the IHSB Program and complete a general work plan to remove contaminated material from the Strickland property. The requested information included :

- A general work plan to assess the area and depth of the required excavations. This initial sampling is necessary for the wastes to be profiled for disposal.
- A general work plan to perform the necessary excavation and possible cement mixing operations as needed.
- A Community Health & safety Plan to protect the local residents from dust and debris during the removal activities.
- The IHSB requires that we provide sampling for all metals or provide prior sampling data to address concerns about other IHSB Metals. If the EPA did the work initially, then we do not have to do it now.
- Provide data showing that nearby groundwater has not shown impacts from the battery operations. If the EPA did the work initially, then we do not have to do it now.
- After the responsible party action is completed, the IHSB will require the property owner and consultant to certify that we have performed all the work required by the IHSB Program. The certified statement is required with the remediation completion report to obtain incident closure.

5.1 Research of US EPA Soil & Groundwater Analyses

The initial review of the EPA and IHSB work completed for the Ulah Battery site showed that the metals and pesticides have been thoroughly assessed in the past reports. Pyramid selected data from the source areas, and the Strickland property to address concerns about metals and other compound contamination. The analytical results are discussed in the following sections and the data are presented in the Appendices.

May 1988 – Soil Analyses for Metals

This group of samples is included to show that the worst case scenario (the main battery cracking operation area) did not show other metals contamination. The results are for TCLP and Total metals in soil. The table shows that in the source area, lead was the only compound of concern. The data and tables showing the correlation to the IHSB Protection of Groundwater SRGs and the PSRGs are presented in **Attachment C**.

May 1988 – Soil Analyses for Pesticides

This group of samples is included to show that the worst case scenario (the main battery cracking operation area) did not show pesticide contamination. The results of the pesticide analyses are included in **Attachment D**, and are summarized on the table. The data and tables show that the IHSB PSRGs are met for pesticides.

October 1988 – Soil & Groundwater Analyses for Metals

This group of samples is also from the worst case scenario (the main battery cracking area). The analyses did not show other metals contamination. The results are for TCLP and Total metals in soil. The table shows that in the source area, lead was the only compound of concern. The data and tables showing the correlation to the IHSB Protection of Groundwater SRGs and the PSRGs are presented in **Attachment E**. In addition, there were water samples collected from the battery casings, and the Hammond water supply well which is closest to the battery cracking operation. Based on these water samples, the total metals analyses showed no problems from other metals in the groundwater at the site. This will correlate well to the Strickland property since the source area had a much greater release from the battery cracking operations than the Strickland property.

May 1990 – Supply Well Water Analyses for Metals

In 1990, after worries about lead migration from soil to groundwater along Dinah road, several water supply wells were sampled for laboratory analyses. The results of the groundwater analyses were very low concentrations of metals, and none above the IHSB PSRGs. The results are presented in **Attachment F**, and showed no detections of metals including lead in the drinking water wells at the site. This data supports the conclusion that the greatest amount of lead contamination did not affect the nearby water supply wells, therefore there should be no impact to the groundwater at the Strickland property.

May 1993 – Soil Analyses for Metals – Strickland Property

This group of samples was collected from the Strickland property. The analyses are presented as **Attachment G**, and summarized in the table in Attachment G. The soil analyses show that the detected metals are below the IHSB guidelines with the exception of naturally occurring metals (iron, manganese, vanadium, and cobalt). The 1993 analyses were completed for many parameters and do not show a pattern of contamination above IHSB SRGs on the Strickland property.

Based on the analytical results of the source area and the Strickland property, the data suggest that the source contaminant is lead, and that the remediation sampling and analytical should focus only on lead as the contaminant of concern. The total and TCLP analyses performed in the source area and on the Strickland property by the US EPA showed no other concerns. In planning the waste profiling and soil cleanup project, Klaussner/Pyramid will focus on the lead contamination identified at the Strickland property location (Area 3).

6.0 Work Plan for Strickland Property (Area 3)

Based on the US EPA soil and water analyses for the Ulah Battery site, Pyramid proposes to focus the assessment and remediation efforts to reduce or eliminate the detected lead contamination on the Strickland property (Area 3).

Review of 2009 Assessment

Pyramid reviewed the most recent work completed on the Strickland property which is summarized in the report dated June 1, 2009. The report was prepared for the IHSB Program and Mr. Keith Snively was present when the field work was completed. A copy of the report is presented as **Attachment A**. The Strickland property (Area 3) was investigated primarily with an XRF unit, and the remediation boundary was established by field readings which exceeded 100 ppm on the XRF. The IHSB performed three soil analyses at the site, and these showed high concentrations in the center and low concentrations uphill toward Dinah Road. The site maps showing the location of the site, Area 3, and the proposed cleanup area are presented in **Attachment A**.

In evaluating the remediation goals for the site, the 2009 report presented 270mg/kg (protection of groundwater SRG) and 400 mg/kg (health based SRG) as standards for site remediation. The correlation of the XRF data to laboratory analytical data is not sufficient to allow delineation of the cleanup area. The soil samples at 3-2 showed 120 on the XRF and 32 on the laboratory analysis. Since the XRF data do not correlate directly to the SRGs, the exact area of contamination has not been clearly defined. In order to provide a perimeter for the excavation project, assess the depth of the excavation, and provide laboratory data for waste profiling, additional laboratory analyses must be collected.

Soil Assessment for Waste Profiling

Pyramid contacted the nearby landfill in Troy, NC that is operated by Republic Services to ask the conditions for acceptance of lead contaminated soil. Pyramid spoke with Ms. Joyce Dishman concerning the landfill requirements and what wastes they are able to accept. The landfill can accept some lead containing wastes; however, a significant number of laboratory analyses are required from the site prior to waste acceptance.

The first step for waste profiling is to assess the lead containing soils using an acceptable number of soil samples and laboratory analyses for total lead and TCLP lead. The highest concentration of lead was detected in the center of Area 3 (35,600 mg/kg total lead and TCLP 182 mg/L). In discussions with Ms. Dishman, it is clear that the landfill would require assessment prior to granting any acceptance for the soil.

To characterize the area of concern using laboratory analyses, Pyramid recommends grid sampling (no greater than 50 foot spacing) with samples collected at depths of 6 inches and 12 inches across Area 3. The proposed grid sampling will provide the detail of the area with regard to the IHSB cleanup requirements, and will provide the landfill with data for waste profiling.

The analyses should identify areas where soil disposal without treatment can be arranged, and areas where some solidification may be required prior to disposal.

The proposed sampling plan will be completed as required by the IHSB program at grid nodes no more than 50 feet apart. Since the area is pear shaped, Pyramid recommends the spacing of borings as shown on the figures in **Attachment H**. The sampling plan includes the soil samples listed on **Table 1**, the proposed depth of the samples, and analytical method proposed. The locations are shown on the figures in **Attachment H** with boring numbers. Most samples will be analyzed for total lead, and selected samples analyzed using TCLP Lead analyses.

The area is split into three zones (3-1, 3-2, and 3-3) and each zone will include seven samples (SB-3-1 through SB-3-7, etc...). An aliquot of each soil sample will be composited into one sample (Comp 3-1, etc...) and submitted for laboratory analysis for total lead and TCLP lead. The results of the composite samples will provide the basis for disposal at the landfill or solidification prior to arranging off-site disposal. The number of proposed total lead and TCLP samples and composites was discussed with the landfill waste profiler (Ms. Dishman) and was generally approved. Waste profiling will be contingent upon laboratory analytical results and treatment if necessary.

7.0 Property Survey Maps

As requested by the EPA and IHSB Program, Klaussner commissioned the survey of the main property to define the property boundaries. The survey maps are presented in **Appendix I**, along with an overlay of the Area 3 and Area 4. Pyramid prepared the overlays from the site features provided in the 2009 report. The result of this evaluation shows that the location of Area 4 that required remediation is not on the Klaussner Property. However, Area 3 is on the Klaussner property.

8.0 Conclusions

As requested by the IHSB Program . Klaussner/Pyramid have performed research and considered the requirements prior to remediation at Area 3 on the Klaussner property. The following items were required prior to implementing the site remediation for the property owner:

- As requested by the IHSB, Pyramid researched past US EPA analyses and found that the only metal of concern was lead related to the battery cracking operation.
- Plans for assessing and profiling the soil to a nearby landfill have been made. The disposal facility requires additional soil analyses and composite samples to profile the waste. If necessary, the waste may require pre-treatment to reduce leachability of lead.

- Klaussner is working on getting the final survey to show the property ownership near Area 4. The small area near sample 4.4 is near the boundary; however, cleanup of the area near 4.4 is not required. Cleanup near 4.3 is not on the Klaussner property.
- The soil excavation project will require a Health & Safety Plan to protect workers and the community. Pyramid is preparing the H&S Plan and will include measures to protect the community including equipment safety, work zones, and dust control.
- The soil remediation goals will be the same as the IHSB SRGs for protection of groundwater (270 mg/kg).
- Water samples collected from the battery casings, and the nearby water supply wells close to the battery cracking operation showed no metals detections. The cation-exchange capacity of the fine grained soils is excellent and appears to have mitigated migration of metals downward through the soil into the groundwater.

Pyramid requests that the IHSB review this plan and provide guidance concerning future activities at the site. We stand ready to implement the sampling and waste profile tasks as described in this report. Once the cleanup area is clearly defined in area and with depth, and the wastes are profiled to a disposal facility, we can proceed with the soil cleanup. As always if you have any questions or comments, please call Mike Jones at (336) 335-3174. We look forward to a successful conclusion to the long term cleanup of the Ulah Battery Site!

Sincerely,
Pyramid Environmental & Engineering, PC

Michael Jones

Michael G. Jones, PG, RSM
 Operations Manager



- Attachment A : 2009 Soil Assessment Report
- Attachment B : E-Mails concerning Site Cleanup
- Attachment C : May 1988 – Metals Analytical Data
- Attachment D : May 1988 – Pesticides Analytical Data
- Attachment E : October 1988 – Metals Analytical Data
- Attachment F : May 1990 – Metals Analytical Data (Water)
- Attachment G : May 1993 – Strickland Property Metals in Soil Analytical Data
- Attachment H : Proposed Soil Assessment Plan
- Attachment I : Survey Maps and Overlay of Area 4

Attachment A

SOIL ASSESSMENT REPORT

**ULAH BATTERY LEAD RECLAIMING SITE
DINAH ROAD
ASHEBORO, RANDOLPH COUNTY, NORTH CAROLINA
NCD 981864614**

Prepared for:

**North Carolina Department of Environment and Natural Resources
Division of Waste Management, Superfund Section
Inactive Hazardous Sites Branch
Raleigh, NC**

Prepared by:

**Solutions-IES, Inc.
1101 Nowell Road
Raleigh, NC 27607
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Solutions-IES Project No. 1524.09A3.NCDW

June 1, 2009



**M. Tony Lieberman
Senior Environmental Manager**



**Walter J. Beckwith, P.G.
Technical Services Director**

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Figure 4	Approximate Sample Locations in Area 3
Figure 5	Approximate Sample Locations in Area 4

APPENDICES

Appendix A	Field Notes
Appendix B	Photographs
Appendix C	Laboratory Analytical Report

1.0 INTRODUCTION

The project work described herein was conducted at the Ulah Battery Lead Reclaiming Site in Asheboro, Randolph County, NC (NCD 981864614) under the North Carolina Department of Environment and Natural Resources (NCDENR), Division of Waste Management, Superfund Section, Inactive Hazardous Sites Branch (IHSB) *Orphan Sites Contract Number N03004S*, dated October 15, 2002. This work assignment was conducted per the NCDENR *Task Authorization Number TA-81 – Ulah Battery Lead Reclaiming Site* authorized April 29, 2009.

This Project Report documents the assessment work performed at the site. Site information reviewed for the project was obtained from Mr. Keith Snavely of the IHSB. Solutions-IES, Inc. prepared a Site Assessment Plan (SAP) dated April 28, 2009 to guide the assessment.

2.0 FACILITY AND BACKGROUND INFORMATION

The site is located along Dinah Road (SR-1219) in Asheboro, NC (**Figure 1**). According to information provided to Solutions-IES, battery cracking activities were formerly performed at the site. The facility was reportedly in operation from 1965 to 1981. During this time, hundreds of batteries were broken and lead plates were removed and melted in drums for salvage. Battery acid was reportedly allowed to spill onto the ground. Lead levels as high as 14% were noted in soil samples collected previously near the disposal areas and in residential yards at the end of Dinah Road.

Four disposal areas were originally identified at the site (**Figure 2**). Disposal Area 1 was located south of the Hoskin's residence along Coy Stella Trail. Battery casings and impacted soil at Disposal Area 1 were estimated at 4,100 cubic yards and were removed in November 1993. Disposal Area 2 was located in the woods approximately 100 yards beyond the end of Dinah Rd. Battery casings and impacted soil at Disposal Area 2 were estimated at 3,600 cubic yards and were also removed in November 1993. Disposal Area 3 was located east of the Strickland's residence. Material and impacted soil at Disposal Area 3 were estimated at approximately 180 cubic yards and were removed in November 1993. Disposal Area 4 was identified at the end of Dinah Rd. south of the Hammond property. It contained approximately 1,417 cubic yards of impacted soil which were removed in 1988.

According to the information provided by the IHSB, during removal activities in 1993 at Disposal Area 2, the contractor only excavated soil to the existing tree line. In doing this, some of the impacted soil was pushed beyond the tree line resulting in a 1- to 2-foot high berm.

3.0 SITE ASSESSMENT OBJECTIVES

The overall objective of this assessment was to delineate remaining impacts to soil of past lead battery disposal practices in the four areas of the site. The findings would then be used to estimate the additional volume of soil, if any, that might require further attention.

3.1 SITE RECONNAISSANCE

Solutions-IES conducted a site reconnaissance on April 30, 2009 to confirm the location of the four Disposal Areas using a Niton X-Ray Fluorescence meter (XRF) to scan for lead and then visually delineate and stake out the boundaries of each area. Solutions-IES personnel were accompanied by Mr. Keith Snavely and Mr. Wade Kirby of the NCDENR IHSB.

Area 1 is located along Coy Stella Trail south of the Hoskins residence at 159 Dinah Road (**Figure 3**). Field notes are included in **Appendix A**. Photographs provided in **Appendix B** illustrate the current appearance of the site. The delineated area starts near a tree with a large boulder adjacent to it. The delineated area continues along Coy Stella Trail, past debris piles associated with 159 Dinah Road, to a fence with animal pens and a small shed. The fence is approximately on the property line with the neighboring resident. XRF readings ranged from non-detect to 10,000 parts per million (ppm); battery chips were observed on the surface at most locations. Based on multiple XRF readings taken while traversing the site, Area 1 with XRF measurements greater than 100 ppm was delineated. The dimensions of Area 1 are approximately 160 ft long x 22 ft wide near the debris piles and extends to approximately 90 ft wide near the fence line behind 159 Dinah Road.

Area 2 is located west of the end of Dinah Road. Area 2 consists of a large berm located on the adjacent property. XRF readings were non-detect across the entire area. Based on the absence of XRF readings and no visible chips, Mr. Snavely decided not to sample in Area 2.

Area 3 is located in an open field northwest of the intersection of Dinah Road and Business Hwy. 220. Area 3 comprised a cone-shaped area covering just less than 1 acre of the field (**Figure 4**). Battery chips

were observed in the center of Area 3 (see Photographs in **Appendix A**) to at least 12 inches below ground surface (in. bgs). XRF readings ranged from non-detect to 20,000 ppm. Based on multiple XRF readings taken while traversing the site, Area 3 with XRF measurements greater than 100 ppm was delineated. The dimensions of Area 3 are approximately 285 ft long x 87 ft wide.

Area 4 is located in an open field at the west end of Dinah Road south of the Hammond residence (**Figure 5**). Battery chips were observed in the center of Area 4. Area 4 was delineated from a power pole west to the tree line and also includes a second area located at the end of the Dinah Road in front of an empty mobile home trailer. XRF readings ranged from non-detect to 10,000 ppm. Based on multiple XRF readings taken while traversing the site, Area 4 with XRF measurements greater than 100 ppm was delineated. The dimensions in the open field are approximately 100 ft long x 40 ft wide and the dimensions near the trailer are 23 ft long x 17 ft wide. Niton XRF readings across both areas of Area 4 ranged from 250 to 900 ppm.

3.2 SOIL SAMPLING

Solutions-IES collected seven grab soil samples at a depth of 0 to 6 in. bgs. These samples were identified as Area 1-1, Area 1-2, Area 3-1, Area 3-2, Area 4-1, Area 4-2 and Area 4-4. In addition, one grab soil sample at a depth of 6 to 12 in. bgs was collected from each of the three areas that were sampled. These were designated as Area 1-3, Area 3-3 and Area 4-3. The soil samples were screened for lead with the XRF analyzer and were sent to Pace Analytical Services, Inc. (Pace Lab) in Huntersville, NC for analysis of total lead by EPA Method 6010. The soil sample designated as Area 3-1 was split and the split sample was designated TCLP-1 and submitted to Pace for Toxicity Characteristic Leaching Procedure (TCLP) lead analysis for disposal characterization purposes. Upon completion of the sampling activities, the boring locations were recorded using a handheld global positioning satellite (GPS) receiver.

4.0 SOIL ANALYTICAL RESULTS

The Pace Lab report is provided in **Appendix B**. **Table 1** summarizes the soil analytical results including both the XRF readings and corresponding laboratory analytical results. Lead concentrations in samples Area 1-1 (3,450 mg/kg), Area 1-3 (735 mg/kg), Area 3-1 (35,600 mg/kg) and Area 4-1 (576 mg/kg) all exceeded the IHSB Protection of Groundwater SRG of 270 mg/kg and IHSB Health-Based SRG of 400

mg/kg. Sample TCLP-1 (from Area 3-1) reported 182 mg/L, which exceeds the North Carolina "Contained-In" level of 5 mg/L for disposal in a Municipal Solid Waste Landfill¹.

TABLE 1 Field and Laboratory Soil Analytical Data Ulah Battery Lead Reclaiming Site Asheboro, North Carolina					
Area	GPS Latitude	GPS Longitude	Sample ID (inches bgs)	XRF Measurement (ppm)	Lead (mg/kg)
1	35.63837263	-79.82799699	Area 1-1 (0-6")	10,000	3,450
	35.63842082	-79.82802331	Area 1-2 (0-6")	218	203
	Same as 1-1		Area 1-3 (6-12")	ND	735
3	35.63956956	-79.82699149	Area 3-1 (0-6")	20,000	35,600 (TCLP = 182 mg/L)
	35.63956898	-79.82698948	Area 3-2 (0-6")	120	32.1
	Same as 3-2		Area 3-3 (6-12")	ND	15.5
4	35.63993216	-79.82706131	Area 4-1 (0-6")	10,000	576
	35.63941475	-79.83027896	Area 4-2 (0-6")	100	95.1
	Same as 4-1		Area 4-3 (6-12")	ND	148
	35.63928173	-79.83036404	Area 4-4 (0-6")	900	260
IHSB Protection of Groundwater SRG*					270
IHSB Health-Based SRG*					400

*SRG = Soil Remediation Goal
 Area 2 was not sampled.

¹ NCDENR, Hazardous Waste Section. "Contained-In" Policy for Soil Contaminated with Listed Hazardous Waste. Revised May 2005.

5.0 CONCLUSIONS

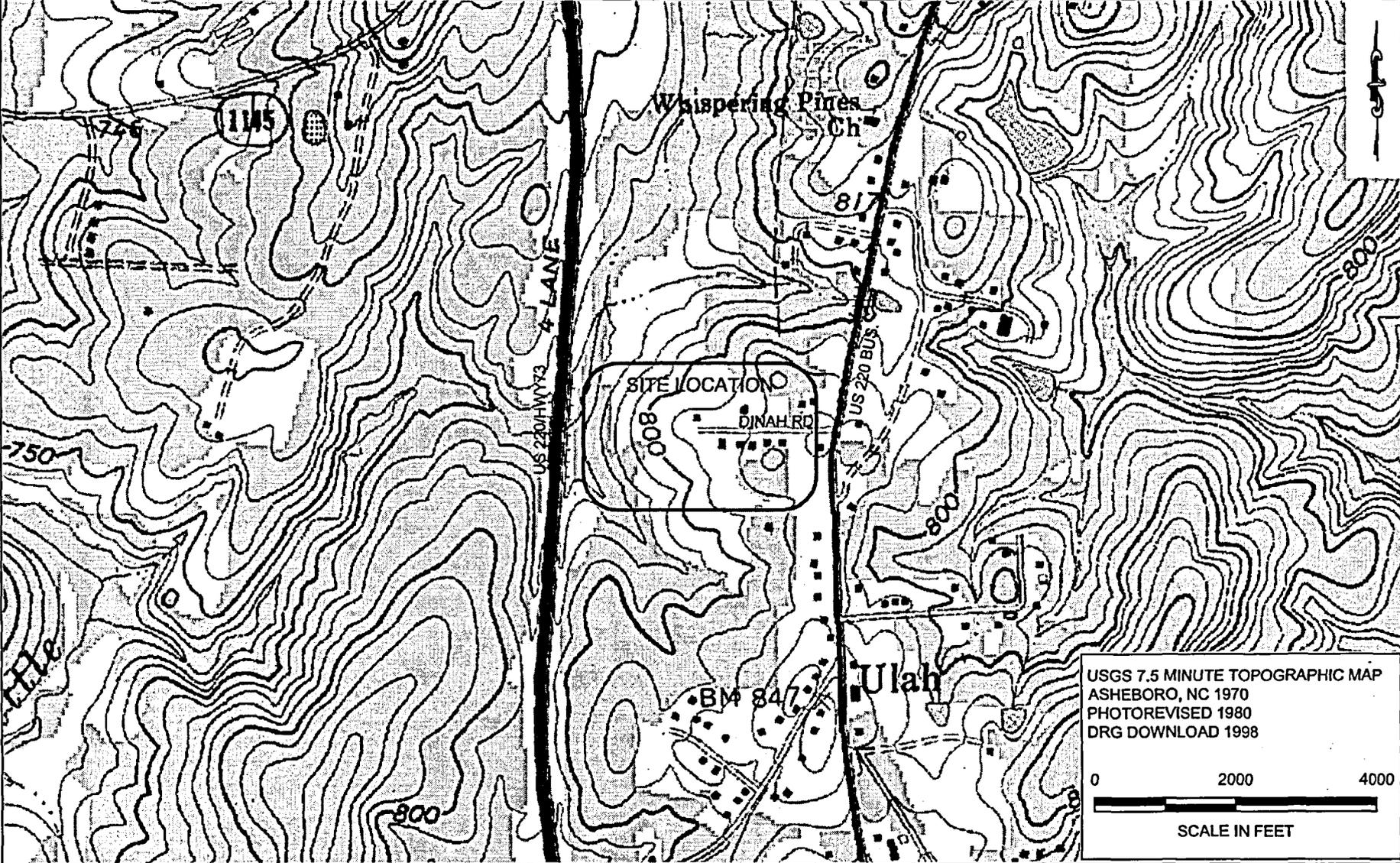
Solutions-IES observed site conditions, scanned soils for lead contamination with an XRF, and estimated the boundaries of Areas 1, 3 and 4. Battery chips and cracked casings were observed in numerous locations in each of these areas. There was no evidence of surface contamination in Area 2. Based on the presence of elevated concentrations of lead in all of the samples that were analyzed, each of the three areas may warrant some amount of additional soil removal. The areas involved were estimated from the field measurements and digitized from the CAD drawings in Figures, 3, 4 and 5. The volume and weight that may require action was calculated based on removing an average of 6 inches of soil across each area. The calculations are shown in Table 2.

	Area 1	Area 3	Area 4
Estimated Area (sq. ft.)	14,260	22,498	2,797
Estimated Volume (cu. yd.)	264	416	52
Estimated Weight (tons)*	370	583	73

* Weight calculated by multiplying volume (cu.yd) by average bulk density of 1.4 tons per cu yd.

Based on the TCLP analysis of sample from Area 3-1, the lead-impacted soils, if excavated would have to be disposed of at a Subtitle C landfill or other permitted facility. Alternatively, the lead in the soil could be treated by blending with stabilizing agents and disposed of as non-hazardous.

FIGURES



USGS 7.5 MINUTE TOPOGRAPHIC MAP
 ASHEBORO, NC 1970
 PHOTOREVISED 1980
 DRG DOWNLOAD 1998

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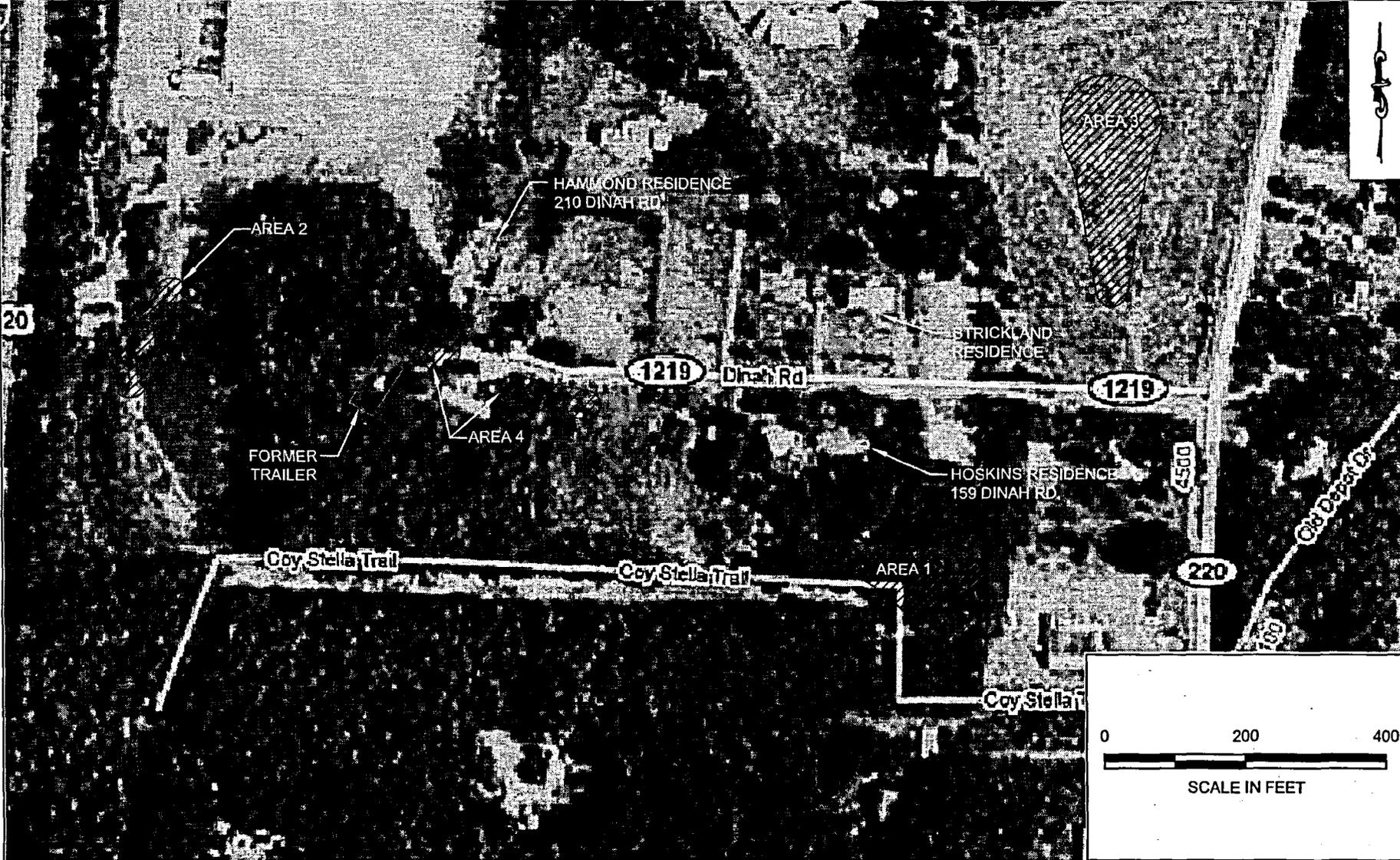
SCALE IN FEET



1101 NOWELL ROAD
 RALEIGH, NORTH CAROLINA 27607
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SITE LOCATION MAP
 ULAH BATTERY LEAD RECLAIMING SITE
 DINAH ROAD
 ASHEBORO, RANDOLPH COUNTY, NORTH CAROLINA

FIGURE:
 1



Solutions-IES
Industrial & Environmental Services

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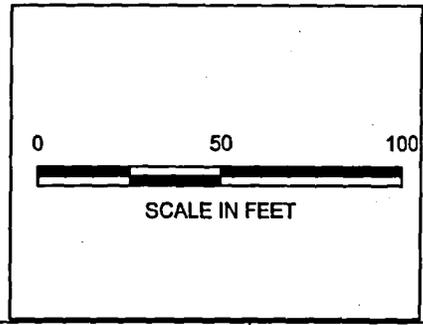
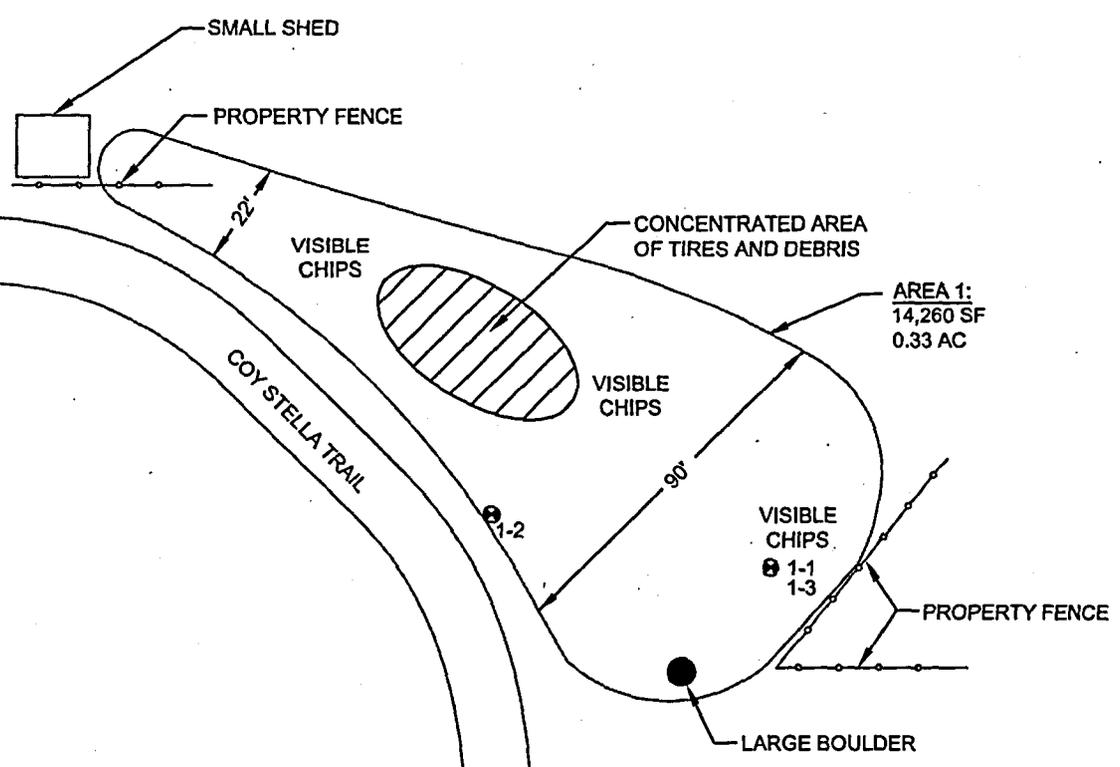
FORMER DISPOSAL AREAS
ULAH BATTERY LEAD RECLAIMING SITE
ASHEBORO, RANDOLPH COUNTY
NORTH CAROLINA

FIGURE:

2

PROJECT NUMBER 1524.09A3.NCDW
 DRAFTER PL
 CHECKED BY TL
 PROJECT MANAGER TL
 DATE 5/28/09
 FILE Basemap.dwg

HOSKINS RESIDENCE
 159 DINAH ROAD



1101 NOWELL ROAD
 RALEIGH, NORTH CAROLINA 27607
 TEL.: (919) 873-1060 FAX.: (919) 873-1074

APPROXIMATE SAMPLE LOCATIONS IN AREA 1
 ULAH BATTERY LEAD RECLAIMING SITE
 ASHEBORO, RANDOLPH COUNTY
 NORTH CAROLINA

FIGURE:
 3

PROJECT NUMBER
1524.09A3.NCDW

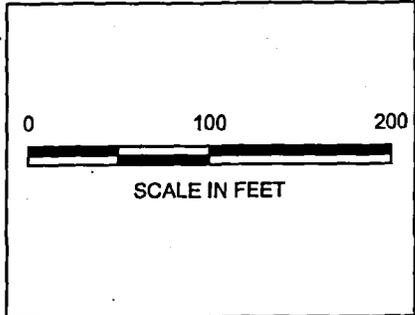
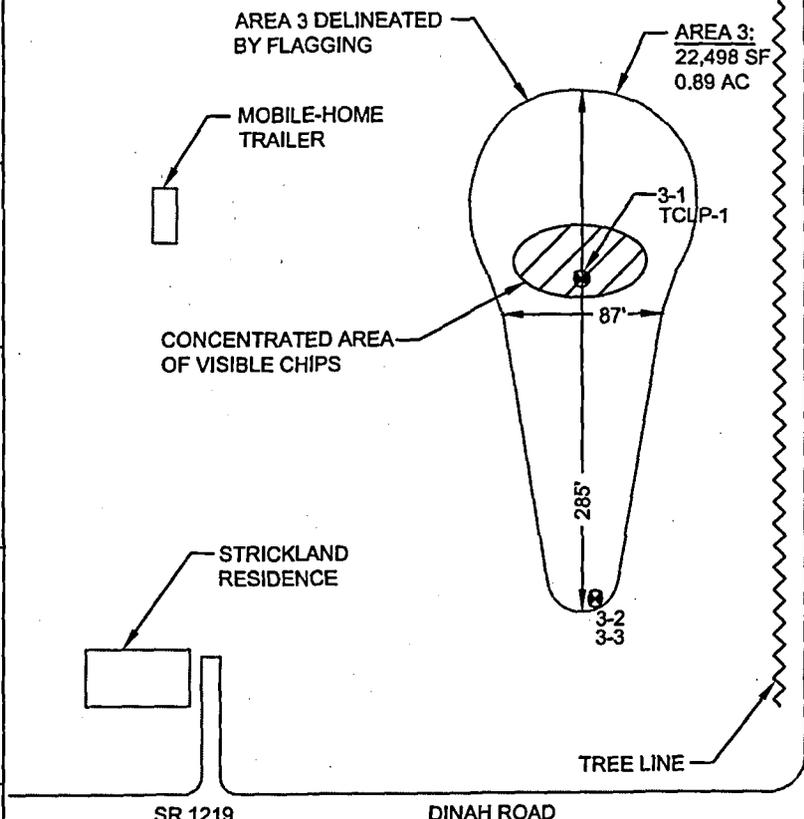
DRAFTER
PL

CHECKED BY
TL

PROJECT MANAGER
TL

DATE
5/28/09

FILE
Basemap.dwg



Solutions-IES
Industrial & Environmental Services

1101 NOWELL ROAD
RALEIGH, NORTH CAROLINA 27607
TEL.: (919) 873-1060 FAX: (919) 873-1074

APPROXIMATE SAMPLE LOCATIONS IN AREA 3
ULAH BATTERY LEAD RECLAIMING SITE
ASHEBORO, RANDOLPH COUNTY
NORTH CAROLINA

FIGURE:

4

PROJECT NUMBER
1524.09A3.NCDW

DRAFTER
PL

CHECKED BY
TL

PROJECT MANAGER
TL

DATE
5/28/09

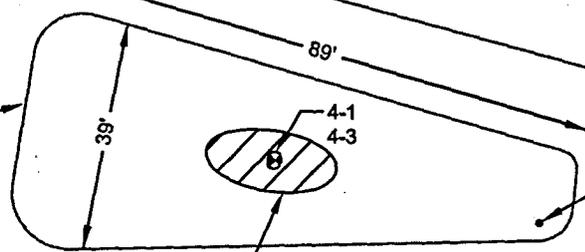
FILE
Basemap.dwg

HAMMOND RESIDENCE
210 DINAH ROAD

PRIVATE DRIVE

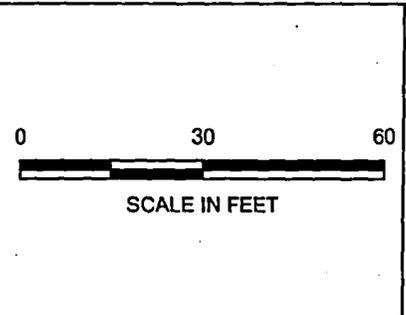
DINAH ROAD

AREA 4:
2,797 SF
0.064 AC



CONCENTRATED AREA
OF VISIBLE CHIPS

POWER POLE



1101 NOWELL ROAD
RALEIGH, NORTH CAROLINA 27607
TEL.: (919) 873-1060 FAX.: (919) 873-1074

APPROXIMATE SAMPLE LOCATIONS IN AREA 4
ULAH BATTERY LEAD RECLAIMING SITE
ASHEBORO, RANDOLPH COUNTY
NORTH CAROLINA

FIGURE:
5

APPENDIX A

FIELD NOTES

4-30-09 OJah

Chris Dionne
Sean Jarch 60°
cloudy

8:15 Depart office, stop
for Ice.

10:00 Arrive on site. Sign HADP

10:10 Calibrated Niton XRF
Resolution is 170.

Area 1 Located behind ¹⁵⁹ 169th Dinah Rd
Area 4 Located at 210 Dinah Rd

10:20 Keith Snavely & Wade Kirby on-site.

Delimited Areas 4 & 2. Area ^{FT} 2/4
is Located in field at end of
Dinah road, on the left. Area 4
is located in front of abandoned trailer
Located to Right of Field 2 to
left (North/West) of 210 Dinah Rd.

Area ^{4.5.5} 2 had XRF hits at 7000
delimited to 100 ppm

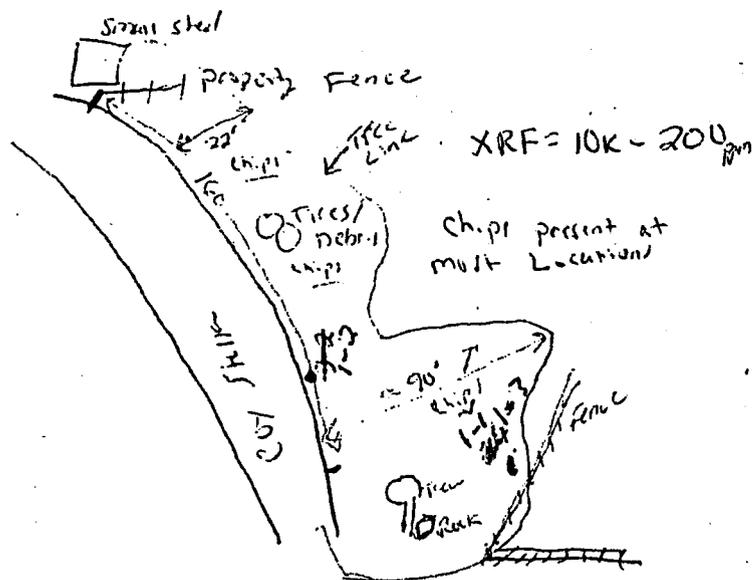
Area 4 had XRF reading to 1200
delimited to NP

4-30

UIAH

Sample for Area 1-2 is collected near edge of Coy Stella Rd.

Area 1 from edge of gravel Coy Stella Rd to south tree line near boulder & split tree to blue truck behind house at 159 Dinah Rd south around tire debris pile to fence with animal traps. Took photos GPS 3-1, 3-2.

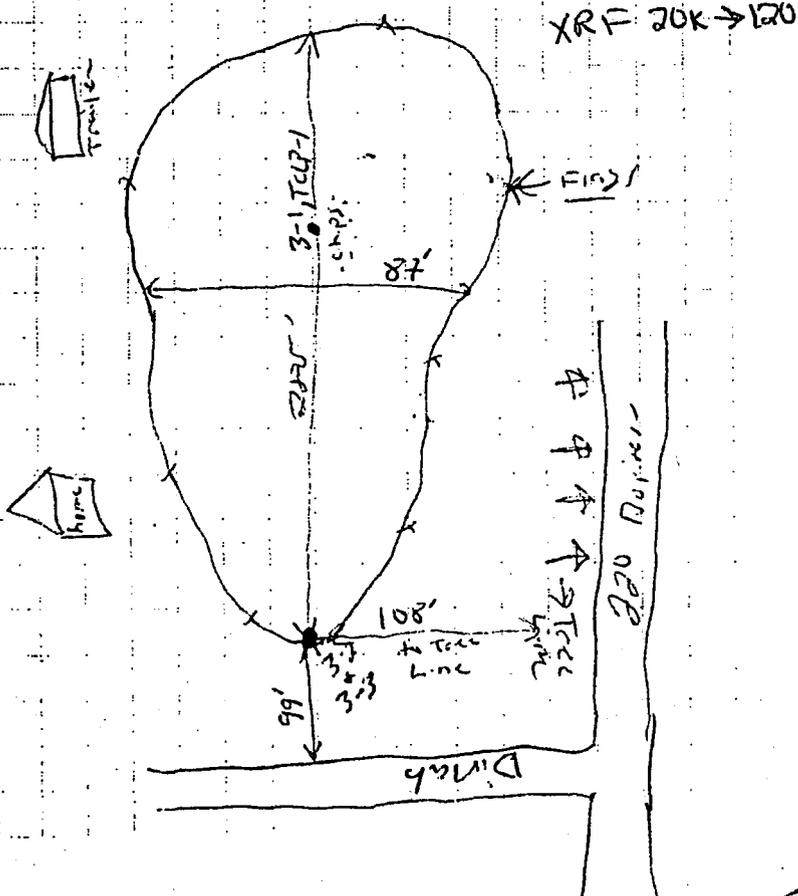


4-30-09

UIAH

Area 3 - GPS 3-1, 3-2

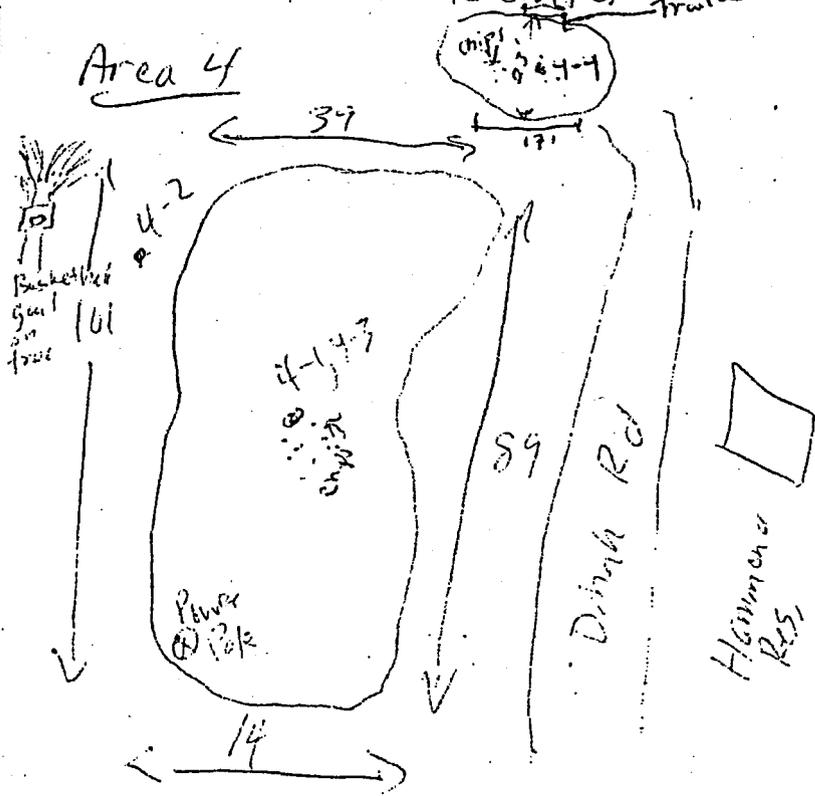
Located in an open field near the corner of Dinah Rd and US HWY 220 BUS. Sample locations have "x" on FIAI



4/30/09

UIAH

- Areas outside of delineated Area 3 are below 120 XRF reading
- Areas inside delineated Area 3 are up to 20,000 near the chips in the center

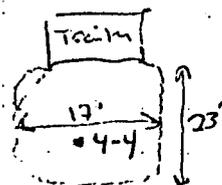


4/30/09

UIAH

Area 4 in open field across from Hammond Residence

Area 2 of Area 4: is Area directly in front of abandoned trailer



Batter chips on ground in front of trailer

XRF range from 250 - 900 ppm

Spray painted boundaries & took pictures
GPS 4-1, 4-2, 4-4

Area 2 - did not detect Lead on beam. Keith did not want to sample no battery chips.

1515 off-site for day. Iced samples.

17:10 Arrive at office

4-30-07

UIAH

2 Areas associated with Area 4
are identical only at level Area 4

ID Area 2 - no XRF hits or
RAs yet.

Return to Area 4.

Time	Area	Hot Sample	Jun Mac XRF	Notes
13:00	Area 4-1	10,000	hot	≈ 6" bgs
13:10	Area 4-2	160	perimeter	≈ 6" bgs
13:15	Area 4-3	ND	8"-12"	(at 4-1)
13:30	Area 4-4	900	2 nd Area at Area 4	6" bgs

Shot Sample	AR w/ XRF
4-1	700 ppm
4-2	74
4-3	ND
4-4	500

Area 2nd Area near area 4 was
sampled.

4-30-07

UIAH

Arrive at area 3.

Time	Action	Area	XRF (Jun Mac)	XRF (JAN)
1335	Collect	Area 3-1	29000	20,000 0-6"
1340		Area 3-2 (Perimeter)	70	75 0-6"
1345		Area 3-3	ND	ND 6-12"
		at area 3-2		
1350	Collect	TCIP-1		
	from	Area 3-1		Location 0-6"

Area in center of Area 3 has
chips ≈ 12" bgs.

Area 3-2 collected 6-12" from Area
3-2 Location. Unrest to Admin
hand Auger or shovel below 8" at
area 3-1 location due to battery chips

Put an 'x' on Flag to mark sample locations

Time	Action	Area	XRF (Jun Mac)	XRF (JAN)
1405	Collect	Area 3-1	10,000	8000 0-6"
1410		Area 1-2 Perimeter	218	1700 0-6"
1415		Area 1-3	ND	ND 6-12"
		at 1-1 location		
1425		Keith off-site		

APPENDIX B

PHOTOGRAPHS



Photograph 1. Debris pile in Area 1 along tree line.



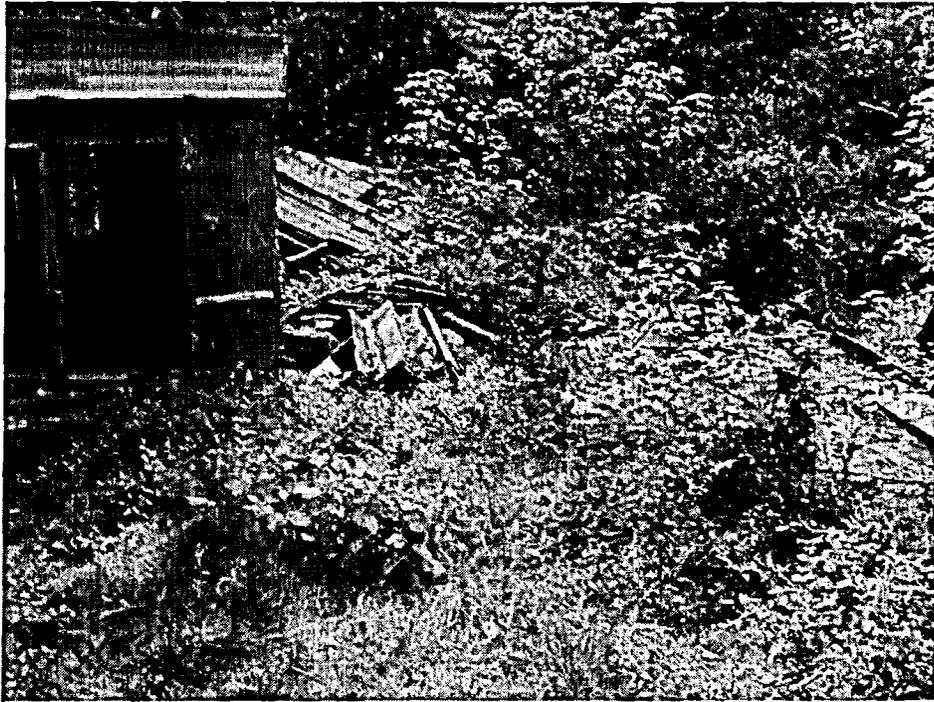
Photograph 2. Debris pile in Area 1.



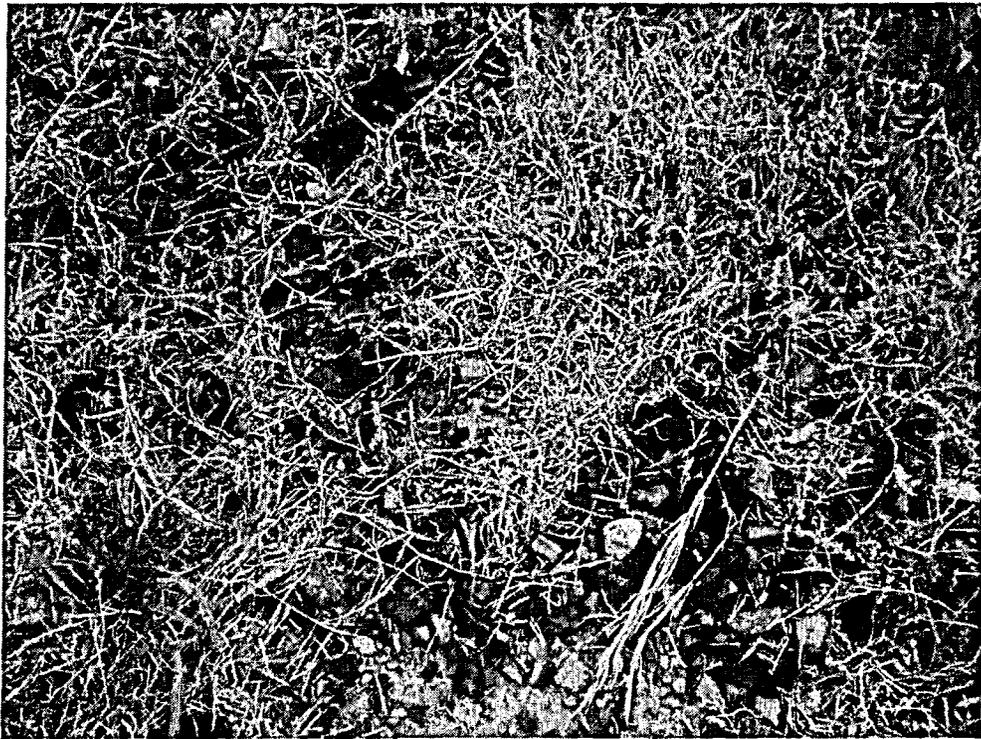
Photograph 3. Battery chips on ground in Area 1.



Photograph 4. Boulder marking the end of Area 1.



Photograph 5. Small shed at end of Area 1.



Photograph 6. Battery chips on ground in Area 3.



Photograph 7. Open field in Area 3 illustrating the topography.



Photograph 8. Area 4.



Photograph 9. Power pole at end of Area 4.

APPENDIX C
LABORATORY ANALYTICAL REPORT

May 13, 2009

Mr. Tony Lieberman
Solutions-IES
1101 Nowell Rd
Raleigh, NC 27607

RE: Project: ULAH BATTERY 1524.09A3
Pace Project No.: 9243295

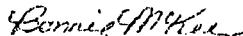
Dear Mr. Lieberman:

Enclosed are the analytical results for sample(s) received by the laboratory on May 01, 2009. The results relate only to the samples included in this report. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

Inorganic Wet Chemistry and Metals analyses were performed at our Pace Asheville laboratory and Organic testing was performed at our Pace Huntersville laboratory unless otherwise footnoted. All Microbiological analyses were performed at the laboratory where the samples were received.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Bonnie McKee

bonnie.mckee@pacelabs.com
Project Manager

Enclosures

cc: Ms. Sheri Knox, Solutions-IES

REPORT OF LABORATORY ANALYSIS

Page 1 of 17

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CERTIFICATIONS

Project: ULAH BATTERY 1524.09A3
Pace Project No.: 9243295

Charlotte Certification IDs

West Virginia Certification #: 357
Virginia Certification #: 00213
Tennessee Certification #: 04010
South Carolina Drinking Water Cert. #: 990060003
South Carolina Certification #: 990060001
Pennsylvania Certification #: 68-00784
Connecticut Certification #: PH-0104

North Carolina Field Services Certification #: 5342
North Carolina Drinking Water Certification #: 37706
New Jersey Certification #: NC012
Louisiana/LELAP Certification #: 04034
Kentucky UST Certification #: 84
Florida/NELAP Certification #: E87627
North Carolina Wastewater Certification #: 12

Asheville Certification IDs

West Virginia Certification #: 356
Virginia Certification #: 00072
Connecticut Certification #: PH-0106
Florida/NELAP Certification #: E87648
Tennessee Certification #: 2980
South Carolina Certification #: 99030001
South Carolina Bioassay Certification #: 99030002

Pennsylvania Certification #: 68-03578
North Carolina Wastewater Certification #: 40
North Carolina Drinking Water Certification #: 37712
North Carolina Bioassay Certification #: 9
New Jersey Certification #: NC011
Massachusetts Certification #: M-NC030
Louisiana/LELAP Certification #: 03095

Eden Certification IDs

North Carolina Wastewater Certification #: 633
Virginia Drinking Water Certification #: 00424

North Carolina Drinking Water Certification #: 37738

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: ULAH BATTERY 1524.09A3
Pace Project No.: 9243295

Sample: AREA 4-1 Lab ID: 9243295001 Collected: 04/30/09 13:00 Received: 05/01/09 14:48 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP								
Analytical Method: EPA 6010 Preparation Method: EPA 3050								
Lead	576	mg/kg	0.44	1	05/04/09 15:50	05/06/09 03:55	7439-92-1	
Percent Moisture								
Analytical Method: ASTM D2974-87								
Percent Moisture	14.3	%	0.10	1		05/05/09 08:28		

ANALYTICAL RESULTS

Project: ULAH BATTERY 1524.09A3
Pace Project No.: 9243295

Sample: AREA 4-2 Lab ID: 9243295002 Collected: 04/30/09 13:10 Received: 05/01/09 14:48 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP								
Analytical Method: EPA 6010 Preparation Method: EPA 3050								
Lead	95.1	mg/kg	0.50	1	05/04/09 15:50	05/06/09 04:10	7439-92-1	
Percent Moisture								
Analytical Method: ASTM D2974-87								
Percent Moisture	14.6	%	0.10	1		05/05/09 08:28		

ANALYTICAL RESULTS

Project: ULAH BATTERY 1524.09A3

Pace Project No.: 9243295

Sample: **AREA 4-3** Lab ID: **9243295003** Collected: 04/30/09 13:15 Received: 05/01/09 14:48 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP		Analytical Method: EPA 6010 Preparation Method: EPA 3050						
Lead	148	mg/kg	0.46	1	05/04/09 15:50	05/06/09 04:14	7439-92-1	
Percent Moisture		Analytical Method: ASTM D2974-87						
Percent Moisture	13.6	%	0.10	1		05/05/09 08:28		

ANALYTICAL RESULTS

Project: ULAH BATTERY 1524.09A3

Pace Project No.: 9243295

Sample: AREA 4-4 Lab ID: 9243295004 Collected: 04/30/09 13:20 Received: 05/01/09 14:48 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP		Analytical Method: EPA 6010 Preparation Method: EPA 3050						
Lead	260	mg/kg	0.35	1	05/04/09 15:50	05/06/09 04:18	7439-92-1	
Percent Moisture		Analytical Method: ASTM D2974-87						
Percent Moisture	8.9	%	0.10	1		05/05/09 08:29		

ANALYTICAL RESULTS

Project: ULAH BATTERY 1524.09A3
Pace Project No.: 9243295

Sample: AREA 3-1 Lab ID: 9243295005 Collected: 04/30/09 13:35 Received: 05/01/09 14:48 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP		Analytical Method: EPA 6010 Preparation Method: EPA 3050						
Lead	35600	mg/kg	50.0	100	05/04/09 15:50	05/06/09 14:46	7439-92-1	
Percent Moisture		Analytical Method: ASTM D2974-87						
Percent Moisture	9.1	%	0.10	1		05/05/09 08:29		

ANALYTICAL RESULTS

Project: ULAH BATTERY 1524.09A3
Pace Project No.: 9243295

Sample: AREA 3-2 Lab ID: 9243295006 Collected: 04/30/09 13:40 Received: 05/01/09 14:48 Matrix: Solid
Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP		Analytical Method: EPA 6010 Preparation Method: EPA 3050						
Lead	32.1	mg/kg	0.40	1	05/04/09 15:50	05/06/09 04:27	7439-92-1	
Percent Moisture		Analytical Method: ASTM D2974-87						
Percent Moisture	9.6	%	0.10	1		05/05/09 08:32		

ANALYTICAL RESULTS

Project: ULAH BATTERY.1524.09A3
Pace Project No.: 9243295

Sample: AREA 3-3 Lab ID: 9243295007 Collected: 04/30/09 13:45 Received: 05/01/09 14:48 Matrix: Solid
Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050							
Lead	15.5	mg/kg	0.39	1	05/04/09 15:50	05/06/09 04:32	7439-92-1	
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	16.7	%	0.10	1		05/05/09 08:32		

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ANALYTICAL RESULTS

Project: ULAH BATTERY 1524.09A3
Pace Project No.: 9243295

Sample: AREA 1-1 Lab ID: 9243295008 Collected: 04/30/09 14:05 Received: 05/01/09 14:48 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP		Analytical Method: EPA 6010 Preparation Method: EPA 3050						
Lead	3450	mg/kg	2.3	5	05/04/09 15:50	05/06/09 14:07	7439-92-1	
Percent Moisture		Analytical Method: ASTM D2974-87						
Percent Moisture	21.5	%	0.10	1		05/05/09 08:32		

ANALYTICAL RESULTS

Project: ULAH BATTERY 1524.09A3
Pace Project No.: 9243295

Sample: AREA 1-2 Lab ID: 9243295009 Collected: 04/30/09 14:10 Received: 05/01/09 14:48 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050							
Lead	203	mg/kg	0.52	1	05/04/09 15:50	05/06/09 04:42	7439-92-1	
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	25.3	%	0.10	1		05/05/09 08:32		

ANALYTICAL RESULTS

Project: ULAH BATTERY 1524.09A3
Pace Project No.: 9243295

Sample: AREA 1-3 Lab ID: 9243295010 Collected: 04/30/09 14:15 Received: 05/01/09 14:48 Matrix: Solid
Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP								
Analytical Method: EPA 6010 Preparation Method: EPA 3050								
Lead	735	mg/kg	0.54	1	05/04/09 15:50	05/06/09 04:47	7439-92-1	
Percent Moisture								
Analytical Method: ASTM D2974-87								
Percent Moisture	22.9	%	0.10	1		05/05/09 08:32		



ANALYTICAL RESULTS

Project: ULAH BATTERY 1524.09A3

Pace Project No.: 9243295

Sample: TCPL-1 Lab ID: 9243295011 Collected: 04/30/09 13:50 Received: 05/01/09 14:48 Matrix: Solid

Results reported on a "wet-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, TCLP		Analytical Method: EPA 6010 Preparation Method: EPA 3010						
Lead	182	mg/L	1.2	50	05/12/09 16:10	05/12/09 11:45	7439-92-1	

QUALITY CONTROL DATA

Project: ULAH BATTERY 1524.09A3
Pace Project No.: 9243295

QC Batch: MPRP/4273 Analysis Method: EPA 6010
QC Batch Method: EPA 3050 Analysis Description: 6010 MET
Associated Lab Samples: 9243295001, 9243295002, 9243295003, 9243295004, 9243295005, 9243295006, 9243295007, 9243295008, 9243295009, 9243295010

METHOD BLANK: 273026 Matrix: Solid
Associated Lab Samples: 9243295001, 9243295002, 9243295003, 9243295004, 9243295005, 9243295006, 9243295007, 9243295008, 9243295009, 9243295010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Lead	mg/kg	ND	0.50	05/06/09 02:53	

LABORATORY CONTROL SAMPLE: 273027

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lead	mg/kg	50	46.8	94	80-120	

MATRIX SPIKE SAMPLE: 273028

Parameter	Units	9243238007 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Lead	mg/kg	29.9	31.6	53.7	75	75-125	

SAMPLE DUPLICATE: 273029

Parameter	Units	9243317001 Result	Dup Result	RPD	Qualifiers
Lead	mg/kg	12.5	8.7	36 R1	

QUALITY CONTROL DATA

Project: ULAH BATTERY 1524.09A3
Pace Project No.: 9243295

QC Batch: MPRP/4323 Analysis Method: EPA 6010
QC Batch Method: EPA 3010 Analysis Description: 6010 MET TCLP
Associated Lab Samples: 9243295011

METHOD BLANK: 276749 Matrix: Water

Associated Lab Samples: 9243295011

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Lead	mg/L	ND	0.025	05/12/09 08:23	

LABORATORY CONTROL SAMPLE: 276750

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lead	mg/L	2.5	2.2	89	80-120	

MATRIX SPIKE SAMPLE: 276751

Parameter	Units	9243007001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Lead	mg/L	2.2	2.5	ND	-90	75-125	M0

SAMPLE DUPLICATE: 276752

Parameter	Units	9243353001 Result	Dup Result	RPD	Qualifiers
Lead	mg/L	ND	ND		

QUALIFIERS

Project: ULAH BATTERY 1524.09A3
Pace Project No.: 9243295

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

Pace Analytical is NELAP accredited. Contact your Pace PM for the current list of accredited analytes.

U - Indicates the compound was analyzed for, but not detected.

ANALYTE QUALIFIERS

M0 Matrix spike recovery was outside laboratory control limits.
R1 RPD value was outside control limits.

Attachment B

Mike Jones

From: Jerry Holder [jholder@klaussner.com]
Sent: Thursday, March 10, 2011 8:27 AM
To: mike@pyramidenvironmental.com
Subject: FW: Ulah Battery Site Assessment

Attachments: Ulah Battery- Report_final to client.pdf



Ulah Battery-
Report_final to ...

Michael

Here is the information that you may be needing. I will meet you this morning @ 10:00 at Dinah Road that is just off 220 south business. If you was to need me please call me @ 336-625-7804.

Thank You
Jerry Holder

-----Original Message-----

From: Sholar.Lynnette@epamail.epa.gov
[mailto:Sholar.Lynnette@epamail.epa.gov]
Sent: Tuesday, April 06, 2010 1:13 PM
To: jholder@klaussner.com
Subject: Fw: Ulah Battery Site Assessment

Lynnette Sholar | On-Scene Coordinator | U.S. Environmental Protection Agency
61 Forsyth Street SW, 11th floor | Atlanta, GA 30303 sholar.lynnette@epa.gov
| www.epa.gov
t: +1 404 562 9126 | f: +1 404 562 8699

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----- Forwarded by Lynnette Sholar/R4/USEPA/US on 04/06/2010 01:12 PM -----

From: Lynnette Sholar/R4/USEPA/US

To: jholder@klaussner@.com

Cc: mthompson@klaussner.com

Date: 04/06/2010 01:11 PM

Subject: Ulah Battery Site Assessment

Mr. Holder,

Please see attached Ulah Battery Site Assessment conducted for NC DENR.

Feel free to contact me with any questions.

Lynnette

(See attached file: Ulah Battery- Report_final to client.pdf)

Lynnette Sholar | On-Scene Coordinator | U.S. Environmental Protection Agency
61 Forsyth Street SW, 11th floor | Atlanta, GA 30303 sholar.lynnette@epa.gov
| www.epa.gov
t: +1 404 562 9126 | f: +1 404 562 8699

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jerry holder
vice president of operations
maintenance

klaussner home furnishings
p: 336.625.6175 x 8416
f: 336.626.0905

www.klaussner.com

----->
Subject: I
----->

Re: Ulah Street

The "Ulah Street" is called Dinah Road.
And it is Klaussner Furniture, not Klaussen.
I have forwarded your email to Jerry Holder, the appropriate VP at
Klaussner.
He is the one who met with me and Keith on the site last fall.
I have asked him to update you.
Mac Whatley

--
L. McKay Whatley
Attorney at Law
19 S. Fayetteville St.
Asheboro, NC 27203
336-629-1989

On 2/15/2011 10:19 AM, Crowley.Jeffery@epamail.epa.gov wrote:
You are correct on the property that we are planning to cleanup. What
I
am trying to do is make sure that we aren't going to have to come back
and clean up additional properties later on. That is why I want to
make
sure DENR has Klaussen on the hook for the other properties. Let me
know what you find out as I want to get the ball rolling on this in
the
next month or so. Thanks.

Jeffery J. Crowley, On-Scene Coordinator
Environmental Protection Agency, Region 4
Office: (404) 562-9587
Fax: (404) 562-8699
email: crowley.jeffery@epa.gov

Jeff,

Yes, I got it. Are you all still planning on conducting the removal?
Let me know when and I will meet you out there. I am going to

contact

Klaussen Furniture to find out what they proposed to do at the site in
regards to one questionable area at the site and I will get back to

you

asap. This fall when Lynnette was working on the site, she requested
Klaussen conduct a removal action of battery chips on one property

that

Klaussen said they did not own. I met with Klaussen in the fall of
2010

and they were going to cleanup one parcel that was definitely on their
property (at the entrance off Dinah Road) and then find out through a
land survey if the other parcel (at the end of Dinah Road) that

Lynnette

was asking them to cleanup was something they owned or not. They were
supposed to have finished this survey around in December 2010, but I
never heard back from them. Let me contact the person from Klaussen

or

their attorney and find out what they found. They may have already

sent

some info on this matter to Lynnette, but I am not sure. As I recall,
EPA will definitely be addressing the cleanup of the parcel adjacent

at

the back of the Hoskins property. This is where we found soil in the
area with highest concentrations of lead with some battery casings and
chips.

Keith

-----Original Message-----

From: Crowley.Jeffery@epamail.epa.gov [
mailto:Crowley.Jeffery@epamail.epa.gov]
Sent: Tuesday, February 15, 2011 9:41 AM
To: Snavelly, Keith
Subject: Re: Ulah Street

Keith,

Just wondering if you got my email from last week? Give me a call if
you want to discuss. Thanks.

Jeffery J. Crowley, On-Scene Coordinator
Environmental Protection Agency, Region 4
Office: (404) 562-9587

Lynn Milligan

From: Mac Whatley [macwhat@triad.rr.com]
Sent: Wednesday, May 26, 2010 4:32 PM
To: sholar.lynette@epa.gov; jholder@klausssner.com
Subject: Dinah Road, Ulah NC battery sites

Ms. Sholar:

Thanks for speaking with me yesterday.
I understand from our conversation that

1. You are handling remediation of site 1; 2. Site 2 does not require further action; 3. Re: Sites 3 and 4 you are seeking to have KFI contract with an appropriate engineering firm for a consulting report that will outline a plan to (a) sample the area for contamination and (b) recommend further remedial action.

I understand that the report should include methodology that explains the specific method of sampling to be used, and specific remediation which should occur based on the information shown by the sampling.

I also understand that you want no actual remediation to occur until the EPA has approved the plan and report.

As we discussed, there is some question whether all or part of Site 4 is actually on property owned by KFI.

Therefore, I am also proposing that the consulting report definitively answer the question of the boundaries of the contamination called Site 4, and make recommendations accordingly. If I have overlooked anything that we discussed, please let me know.

Thanks for your assistance,
Mac Whatley

--
Mac Whatley
722 West Main Street
Franklinville, NC 27248
336-824-4855

Cc: Kenneth Rhame/R4/USEPA/US@EPA

Date: 05/04/2010 10:20 AM

Subject: Ulah Battery

Mr. Thompson--

I wanted to touch base with you regarding the Ulah Battery site. Have you scheduled an assessment to be completed for the areas we discussed a few weeks ago with my colleague Ken Rhame? The two areas of concern are in the state report I forwarded to you. Figure 2 in the report outlines Area 2 and Area 3. Please let me know when an assessment will be scheduled in those two areas.

Thanks--

Lynnette

Lynnette Sholar | On-Scene Coordinator | U.S. Environmental Protection Agency
61 Forsyth Street SW, 11th floor | Atlanta, GA 30303 sholar.lynnette@epa.gov | www.epa.gov
t: +1 404 562 9126 | f: +1 404 562 8699

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mike thompson
general manager
garage, security, and transportation

klaussner home furnishings
p: 336.625.6175 x8182
f: 336.625.6866

www.klaussner.com

Attachment C

1999

May 1988 - RCRA TCLP Metals - SOIL
Ulah Battery Site, Asheboro, NC

PARAMETER	UNITS	DATE	Soil Analyses for TCLP Metals					TCLP Metals
			Battery Contents	@ 18 " Lower Pile	Sample 16	Sample 7	Sample 6	IHSB Protect GW SRGs (Mg/Kg)
			Matrix	Soil	Soil	Soil	Soil	
Arsenic (As)	mg/kg	5/25/88	0.01	< 0.01	< 0.01	< 0.01	< 0.01	5.8
Barium	mg/kg	5/25/88	< 0.04	0.06	0.13	0.26	< 0.26	580
Cadmium	mg/kg	5/25/88	< 0.08	< 0.08	< 0.08	< 0.08	< 0.08	3
Chromium	mg/kg	5/25/88	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	27
Lead	mg/kg	5/25/88	236	< 1.00	10	14.0	< 1.0	270
Mercury	mg/kg	5/25/88	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	1.1
Selenium	mg/kg	5/25/88	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	2.1
Silver	mg/kg	5/25/88	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	3

May 1988 - RCRA TOTAL Metals - SOIL
Ulah Battery Site, Asheboro, NC

PARAMETER	UNITS	DATE	Soil Analyses for TOTAL Metals					Total Metals
			Battery Contents	@ 18 " Lower Pile	Sample 16	Sample 7	Sample 6	IHSB PSRGs (mg/kg)
			Matrix	Soil	Soil	Soil	Soil	
Arsenic (As)	mg/kg	5/25/88	52	< 5	< 25	< 25	< 25	5.8
Barium	mg/kg	5/25/88	23	16	26	130	76	3,100
Cadmium	mg/kg	5/25/88	< 4	7.5	< 4	11.0	< 4	14
Chromium	mg/kg	5/25/88	< 10	26	10	55	32	27
Lead	mg/kg	5/25/88	14%	68	2,400	6.7%	7,600	400
Mercury	mg/kg	5/25/88	0.32	< 0.10	NR	< 0.10	0.14	1.1
Selenium	mg/kg	5/25/88	< 0.25	< 2.5	< 0.25	< 0.25	< 0.25	7.8
Silver	mg/kg	5/25/88	< 10	< 10	< 10	< 10	< 10	780
Cyanide	mg/kg	5/25/88	NA	NA	NA	4.0	NA	630

Site Number NC0981864614 Field Sample Number 3734
 Name of Site Ulah Battery Site Location Asheboro
 Collected By J. Butler ID# 44 Date Collected 5-25-88 Time 11-1500
C. Parlashkin

Type of Sample:

- | | |
|--|--------------------------------------|
| <input type="checkbox"/> Environmental | <input type="checkbox"/> Concentrate |
| <input type="checkbox"/> Groundwater (1) | <input type="checkbox"/> Solid (5) |
| <input type="checkbox"/> Surface Water (2) | <input type="checkbox"/> Liquid (6) |
| <input checked="" type="checkbox"/> Soil (3) | <input type="checkbox"/> Sludge (7) |
| <input type="checkbox"/> Other (4) | <input type="checkbox"/> Other (8) |

Comments

Battery Contents

INORGANIC CHEMISTRY

Extractables		Total			
Parameter	Results mg/1	Parameter	Results mg/1	Parameter	Results mg/1
<input checked="" type="checkbox"/> Arsenic	<u>0.01</u>	<input checked="" type="checkbox"/> Arsenic	<u>52</u>	<input checked="" type="checkbox"/> Silver	<u><10</u>
<input checked="" type="checkbox"/> Barium	<u><0.04</u>	<input checked="" type="checkbox"/> Barium	<u>23</u>	Sulfates	
<input checked="" type="checkbox"/> Cadmium	<u><0.08</u>	<input checked="" type="checkbox"/> Cadmium	<u><4</u>	Zinc	
<input checked="" type="checkbox"/> Chromium	<u><0.20</u>	Chloride		Ph	<u>7.0</u>
<input checked="" type="checkbox"/> Lead	<u>236</u>	<input checked="" type="checkbox"/> Chromium	<u><10</u>	Conductivity	
<input checked="" type="checkbox"/> Mercury	<u><0.02</u>	Copper		TDS	
<input checked="" type="checkbox"/> Selenium	<u><0.005</u>	Fluoride		TOC	
<input checked="" type="checkbox"/> Silver	<u><0.20</u>	Iron		<u>Cyanide Interference</u>	
		<input checked="" type="checkbox"/> Lead	<u>14.0%</u>		
		Manganese			
		<input checked="" type="checkbox"/> Mercury	<u>0.32</u>		
		Nitrate			
		<input checked="" type="checkbox"/> Selenium	<u><0.25</u>		

ORGANIC CHEMISTRY

Parameter	Results mg/1	Parameter	Results mg/1	Parameter	Results mg/1
P&T:GC/MS		EDB		Methoxychlor	
Acid:B/N Ext.		PCB's		Toxaphene	
TOX		Petroleum		2,4-D	
		Endrin		2,4,5-TP (silvex)	
		Lindane			

MICROBIOLOGY

RADIOCHEMISTRY

Parameter	Parameter	Results PCi/1
(MF) Coliform Colonies/100mls	Gross Alpha	
(MPN) Coliform Colonies/100mls	Gross Beta	

Date Received _____ Date Reported _____
 Date Extracted _____ Date Analyzed _____
 Reported By _____ Lab Number 011151 MAY 26 88

SAMPLE ANALYSES REQUEST

UNIDENTIFIED

Site Number NCD 981864614 Field Sample Number 3731

Name of Site Ulah Battery Site Location Asheboro

Collected By J. Butler ID# 442 Date Collected 5-25-88 Time 11-1500

Type of Sample: C. Parlashtin

Environmental	Concentrate	Comments
<input type="checkbox"/> Groundwater (1)	<input type="checkbox"/> Solid (5)	<u>18" Lower Pile</u>
<input type="checkbox"/> Surface Water (2)	<input type="checkbox"/> Liquid (6)	
<input checked="" type="checkbox"/> Soil (3)	<input type="checkbox"/> Sludge (7)	
<input type="checkbox"/> Other (4)	<input type="checkbox"/> Other (8)	

INORGANIC CHEMISTRY

Extractables		Total			
Parameter	Results mg/l	Parameter	Results mg/l	Parameter	Results mg/l
<input checked="" type="checkbox"/> Arsenic	<u><0.01</u>	<input checked="" type="checkbox"/> Arsenic	<u><5.0</u>	<input checked="" type="checkbox"/> Silver	<u><10</u>
<input checked="" type="checkbox"/> Barium	<u>0.06</u>	<input checked="" type="checkbox"/> Barium	<u>16</u>	<input type="checkbox"/> Sulfates	
<input checked="" type="checkbox"/> Cadmium	<u><0.08</u>	<input checked="" type="checkbox"/> Cadmium	<u>7.5</u>	<input type="checkbox"/> Zinc	
<input checked="" type="checkbox"/> Chromium	<u><0.20</u>	<input type="checkbox"/> Chloride		<input checked="" type="checkbox"/> Ph	<u>4.0</u>
<input checked="" type="checkbox"/> Lead	<u><1.00</u>	<input checked="" type="checkbox"/> Chromium	<u>26</u>	<input type="checkbox"/> Conductivity	
<input checked="" type="checkbox"/> Mercury	<u><0.02</u>	<input type="checkbox"/> Copper		<input type="checkbox"/> TDS	
<input checked="" type="checkbox"/> Selenium	<u><0.005</u>	<input type="checkbox"/> Fluoride		<input type="checkbox"/> TOC	
<input checked="" type="checkbox"/> Silver	<u><0.20</u>	<input type="checkbox"/> Iron			
		<input checked="" type="checkbox"/> Lead	<u>68</u>		
		<input type="checkbox"/> Manganese			
		<input checked="" type="checkbox"/> Mercury	<u><0.1</u>		
		<input type="checkbox"/> Nitrate			
		<input checked="" type="checkbox"/> Selenium	<u><2.5</u>		

ORGANIC CHEMISTRY

Parameter	Results mg/l	Parameter	Results mg/l	Parameter	Results mg/l
<input type="checkbox"/> P&T:GC/MS		<input type="checkbox"/> EDB		<input type="checkbox"/> Methoxychlor	
<input type="checkbox"/> Acid:B/N Ext.		<input type="checkbox"/> PCB's		<input type="checkbox"/> Toxaphene	
<input type="checkbox"/> TOX		<input type="checkbox"/> Petroleum		<input type="checkbox"/> 2,4-D	
		<input type="checkbox"/> Endrin		<input type="checkbox"/> 2,4,5-TP (silvex)	
		<input type="checkbox"/> Lindane			

MICROBIOLOGY

RADIOCHEMISTRY

Parameter	Parameter	Results PCI/1
<input type="checkbox"/> (MF) Coliform Colonies/100mls	<input type="checkbox"/> Gross Alpha	
<input type="checkbox"/> (MPN) Coliform Colonies/100mls	<input type="checkbox"/> Gross Beta	

Date Received _____ Date Reported _____

Date Extracted _____ Date Analyzed _____

Reported By _____ Lab Number 011148 MAY 26 88

SAMPLE ANALYSES REQUEST

Site Number NCD 981-864614 Field Sample Number 3724
 Name of Site Ulah Battery Site Location Asheboro
 Collected By J. Butler ID# 44 Date Collected 5-25-88 Time 11-1500
 Type of Sample: C. Varlashkin

Environmental	Concentrate	Comments
<input type="checkbox"/> Groundwater (1)	<input type="checkbox"/> Solid (5)	<u>16</u>
<input type="checkbox"/> Surface Water (2)	<input type="checkbox"/> Liquid (6)	
<input checked="" type="checkbox"/> Soil (3)	<input type="checkbox"/> Sludge (7)	
<input type="checkbox"/> Other (4)	<input type="checkbox"/> Other (8)	

INORGANIC CHEMISTRY

Extractables		Total			
Parameter	Results mg/1	Parameter	Results mg/1	Parameter	Results mg/1
Arsenic	<u><0.01</u>	Arsenic	<u><25</u>	Silver	<u><10</u>
Barium	<u>0.13</u>	Barium	<u>26</u>	Sulfates	
Cadmium	<u><0.08</u>	Cadmium	<u><4</u>	Zinc	
Chromium	<u><0.20</u>	Chloride		Ph	<u>5.1</u>
Chromium	<u>10</u>	Chromium	<u>10</u>	Conductivity	
Mercury	<u><0.02</u>	Copper		TDS	
Selenium	<u><0.005</u>	Fluoride		TOC	
Silver	<u><0.20</u>	Iron			
		<input checked="" type="checkbox"/> Lead	<u>2400</u>		
		Manganese			
		Mercury			
		Nitrate			
		Selenium	<u><0.25</u>		

ORGANIC CHEMISTRY

Parameter	Results mg/1	Parameter	Results mg/1	Parameter	Results mg/1
P&T:GC/MS		EDB		Methoxychlor	
Acid:B/N Ext.		PCB's		Toxaphene	
TOX		Petroleum		2,4-D	
		Endrin		2,4,5-TP (silvex)	
		Lindane			

MICROBIOLOGY

RADIOCHEMISTRY

Parameter	Parameter	Results PCi/1
(MF) Coliform Colonies/100mls	Gross Alpha	
(MPN) Coliform Colonies/100mls	Gross Beta	

Date Received _____ Date Reported _____
 Date Extracted _____ Date Analyzed JUN 14 11 41 AM '88
 Reported By _____ Lab Number _____

SAMPLE ANALYSES REQUEST

Site Number NCD 981864614 Field Sample Number 3715

Name of Site Ulah Battery Site Location Ashboro

Collected By J. Butler ID# 442 Date Collected 5-25-88 Time 11-1500

Type of Sample: C. Parlashkin

Environmental	Concentrate	Comments
<input type="checkbox"/> Groundwater (1)	<input type="checkbox"/> Solid (5)	7
<input type="checkbox"/> Surface Water (2)	<input type="checkbox"/> Liquid (6)	
<input checked="" type="checkbox"/> Soil (3)	<input type="checkbox"/> Sludge (7)	
<input type="checkbox"/> Other (4)	<input type="checkbox"/> Other (8)	

INORGANIC CHEMISTRY

Extractables		Total			
Parameter	Results mg/1	Parameter	Results mg/1	Parameter	Results mg/1
<input checked="" type="checkbox"/> Arsenic	<u><0.01</u>	<input checked="" type="checkbox"/> Arsenic	<u><25</u>	<input checked="" type="checkbox"/> Silver	<u><10</u>
<input checked="" type="checkbox"/> Barium	<u>0.26</u>	<input checked="" type="checkbox"/> Barium	<u>130</u>	<input type="checkbox"/> Sulfates	
<input checked="" type="checkbox"/> Cadmium	<u><0.08</u>	<input checked="" type="checkbox"/> Cadmium	<u>11</u>	<input type="checkbox"/> Zinc	
<input checked="" type="checkbox"/> Chromium	<u><0.20</u>	<input type="checkbox"/> Chloride		<input type="checkbox"/> Ph	<u>6.9</u>
<input checked="" type="checkbox"/> Lead	<u>14</u>	<input checked="" type="checkbox"/> Chromium	<u>55</u>	<input type="checkbox"/> Conductivity	
<input checked="" type="checkbox"/> Mercury	<u><0.02</u>	<input type="checkbox"/> Copper		<input type="checkbox"/> TDS	
<input checked="" type="checkbox"/> Selenium	<u><0.005</u>	<input type="checkbox"/> Fluoride		<input type="checkbox"/> TOC	
<input checked="" type="checkbox"/> Silver	<u><0.20</u>	<input type="checkbox"/> Iron		<input checked="" type="checkbox"/> Cyanide	<u>4</u>
		<input checked="" type="checkbox"/> Lead	<u>6.7%</u>		
		<input type="checkbox"/> Manganese			
		<input checked="" type="checkbox"/> Mercury	<u><0.1</u>		
		<input type="checkbox"/> Nitrate			
		<input checked="" type="checkbox"/> Selenium	<u><0.25</u>		

ORGANIC CHEMISTRY

Parameter	Results mg/1	Parameter	Results mg/1	Parameter	Results mg/1
<input type="checkbox"/> P&T:GC/MS		<input type="checkbox"/> EDB		<input type="checkbox"/> Methoxychlor	
<input type="checkbox"/> Acid:B/N Ext.		<input type="checkbox"/> PCB's		<input type="checkbox"/> Toxaphene	
<input type="checkbox"/> TOX		<input type="checkbox"/> Petroleum		<input type="checkbox"/> 2,4-D	
		<input type="checkbox"/> Endrin		<input type="checkbox"/> 2,4,5-TP (silvex)	
		<input type="checkbox"/> Lindane			

MICROBIOLOGY

Parameter
<input type="checkbox"/> (MF) Coliform Colonies/100mls
<input type="checkbox"/> (MPN) Coliform Colonies/100mls

RADIOCHEMISTRY

Parameter	Results PCI/1
<input type="checkbox"/> Gross Alpha	
<input type="checkbox"/> Gross Beta	

Date Received _____ Date Reported _____

Date Extracted _____ Date Analyzed _____

Reported By _____ Lab Number 011132 MAY 26 88

SAMPLE ANALYSES REQUEST

Site Number NCD 981 864 614 Field Sample Number 3714
 Name of Site Ulab Battery Site Location Asheboro
 Collected By J. Butler ID# 44 Date Collected 5-25-88 Time 11-1500
C. Varlashkin

Type of Sample:

Environmental	Concentrate	Comments
<input type="checkbox"/> Groundwater (1)	<input type="checkbox"/> Solid (5)	<u>6</u>
<input type="checkbox"/> Surface Water (2)	<input type="checkbox"/> Liquid (6)	
<input checked="" type="checkbox"/> Soil (3)	<input type="checkbox"/> Sludge (7)	
<input type="checkbox"/> Other (4)	<input type="checkbox"/> Other (8)	

INORGANIC CHEMISTRY

Extractables		Total			
Parameter	Results mg/1	Parameter	Results mg/1	Parameter	Results mg/1
<input checked="" type="checkbox"/> Arsenic	<u><0.01</u>	<input checked="" type="checkbox"/> Arsenic	<u><25</u>	<input checked="" type="checkbox"/> Silver	<u><10</u>
<input checked="" type="checkbox"/> Barium	<u><0.26</u>	<input checked="" type="checkbox"/> Barium	<u>76</u>	<input type="checkbox"/> Sulfates	
<input checked="" type="checkbox"/> Cadmium	<u><0.08</u>	<input checked="" type="checkbox"/> Cadmium	<u><4</u>	<input type="checkbox"/> Zinc	
<input checked="" type="checkbox"/> Chromium	<u><0.20</u>	<input type="checkbox"/> Chloride		<input type="checkbox"/> Ph	<u>6.9</u>
<input checked="" type="checkbox"/> Lead	<u><1.0</u>	<input checked="" type="checkbox"/> Chromium	<u>32</u>	<input type="checkbox"/> Conductivity	
<input checked="" type="checkbox"/> Mercury	<u><0.02</u>	<input type="checkbox"/> Copper		<input type="checkbox"/> TDS	
<input checked="" type="checkbox"/> Selenium	<u><0.005</u>	<input type="checkbox"/> Fluoride		<input type="checkbox"/> TOC	
<input checked="" type="checkbox"/> Silver	<u><0.20</u>	<input type="checkbox"/> Iron			
		<input checked="" type="checkbox"/> Lead	<u>7600</u>		
		<input type="checkbox"/> Manganese			
		<input checked="" type="checkbox"/> Mercury	<u>0.14</u>		
		<input type="checkbox"/> Nitrate			
		<input checked="" type="checkbox"/> Selenium	<u><0.25</u>		

ORGANIC CHEMISTRY

Parameter	Results mg/1	Parameter	Results mg/1	Parameter	Results mg/1
<input type="checkbox"/> P&T:GC/MS		<input type="checkbox"/> EDB		<input type="checkbox"/> Methoxychlor	
<input type="checkbox"/> Acid:B/N Ext.		<input type="checkbox"/> PCB's		<input type="checkbox"/> Toxaphene	
<input type="checkbox"/> TOX		<input type="checkbox"/> Petroleum		<input type="checkbox"/> 2,4-D	
		<input type="checkbox"/> Endrin		<input type="checkbox"/> 2,4,5-TP (silvex)	
		<input type="checkbox"/> Lindane			

MICROBIOLOGY

RADIOCHEMISTRY

Parameter	Parameter	Results PCI/1
<input type="checkbox"/> (MF) Coliform Colonies/100mls	<input type="checkbox"/> Gross Alpha	
<input type="checkbox"/> (MPN) Coliform Colonies/100mls	<input type="checkbox"/> Gross Beta	

Date Received _____ Date Reported _____
 Date Extracted _____ Date Analyzed _____
 Reported By _____ Lab Number JTTT31 MAY 26 88

Attachment D

**May 1988 - RCRA Pesticides in SOIL
Ulah Battery Site, Asheboro, NC**

PARAMETER	UNITS	DATE	BH 1	BH 1	BH 2	BH-2	IHSB PSRGs (Mg/Kg)
			surface	18 - Inches	Surface	18 - Inches	
		Matrix	Soil	Soil	Soil	Soil	
PCBs	mg/l	5/26/88	< 0.10	< 0.10	(removed) 1.6	< 0.10	1.0
Endrin	mg/l	5/26/88	< 0.10	< 0.10	< 0.10	< 0.10	3.7
Lindane	mg/l	5/26/88	< 0.40	< 0.40	< 0.40	< 0.40	NS
Methoxychlor	mg/l	5/26/88	< 1.0	< 1.0	< 1.0	< 1.0	61
ToxaPhene	mg/l	5/26/88	< 2.0	< 2.0	< 2.0	< 2.0	0.44

Pesticides were analyzed in the source area and none were found. The EPA data should be sufficient to address any concerns for pesticides in other areas of the site.

1989

Superfund

N. C. Department of Human Resources
Division of Health Services

SAMPLE ANALYSES REQUEST

State Laboratory of Public Health
P. O. Box 28047
306 N. Wilmington Street
Raleigh, 27611

Site Number 76D981864614 Field Sample Number 4012

Name of Site Ulah Battery Site Location Asheboro

Collected By J. Butler ID# 44 Date Collected 5/26/88 Time 11-3

Type of Sample:

- | | |
|--|-------------------------------------|
| Environmental | Concentrate |
| <input type="checkbox"/> Groundwater (1) | <input type="checkbox"/> Solid (5) |
| <input type="checkbox"/> Surface Water (2) | <input type="checkbox"/> Liquid (6) |
| <input checked="" type="checkbox"/> Soil (3) | <input type="checkbox"/> Sludge (7) |
| <input type="checkbox"/> Other (4) | <input type="checkbox"/> Other (8) |

RECEIVED

Comments

~~5/26/88~~

BH1-surf

AUG 4 1988

**SUPERFUND
BRANCH
SOLID WASTE MANAGEMENT SECTION**

INORGANIC CHEMISTRY

Extractables		Total			
Parameter	Results mg/1	Parameter	Results mg/1	Parameter	Results mg/1
<input type="checkbox"/> Arsenic		<input type="checkbox"/> Arsenic		<input type="checkbox"/> Silver	
<input type="checkbox"/> Barium		<input type="checkbox"/> Barium		<input type="checkbox"/> Sulfates	
<input type="checkbox"/> Cadmium		<input type="checkbox"/> Cadmium		<input type="checkbox"/> Zinc	
<input type="checkbox"/> Chromium		<input type="checkbox"/> Chloride		<input type="checkbox"/> Ph	
<input type="checkbox"/> Lead		<input type="checkbox"/> Chromium		<input type="checkbox"/> Conductivity	
<input type="checkbox"/> Mercury		<input type="checkbox"/> Copper		<input type="checkbox"/> TDS	
<input type="checkbox"/> Selenium		<input type="checkbox"/> Fluoride		<input type="checkbox"/> TOC	
<input type="checkbox"/> Silver		<input type="checkbox"/> Iron			
		<input type="checkbox"/> Lead			
		<input type="checkbox"/> Manganese			
		<input type="checkbox"/> Mercury			
		<input type="checkbox"/> Nitrate			
		<input type="checkbox"/> Selenium			

ORGANIC CHEMISTRY

Parameter	Results mg/1	Parameter	Results mg/1	Parameter	Results mg/1
<input checked="" type="checkbox"/> P&T:GC/MS	<input checked="" type="checkbox"/>	<input type="checkbox"/> EDB		<input checked="" type="checkbox"/> Methoxychlor	<u>< 1.0 ppm</u>
<input checked="" type="checkbox"/> Acid:B/N Ext.	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/> PCB's	<u>< 0.10 ppm</u>	<input checked="" type="checkbox"/> Toxaphene	<u>< 2.0 ppm</u>
<input type="checkbox"/> TOX		<input type="checkbox"/> Petroleum		<input type="checkbox"/> 2,4-D	
		<input checked="" type="checkbox"/> Endrin	<u>< 0.10 ppm</u>	<input type="checkbox"/> 2,4,5-TP (silvex)	
		<input checked="" type="checkbox"/> Lindane	<u>< 0.40 ppm</u>	<input checked="" type="checkbox"/> Dioxin	<input checked="" type="checkbox"/>
		<input checked="" type="checkbox"/> Pesticides			

MICROBIOLOGY

Parameter
<input type="checkbox"/> (MF) Coliform Colonies/100mls
<input type="checkbox"/> (MPN) Coliform Colonies/100mls

RADIOCHEMISTRY

Parameter	Results PCi/1
<input type="checkbox"/> Gross Alpha	
<input type="checkbox"/> Gross Beta	

Date Received 5-27-88 B10 Date Reported 7-27-88

Date Extracted 6-3-88 (WBD) PCB's Date Analyzed 6-16-88 VP 6-27-88 B10 6-28-88 PT

Reported By John P. Neal Lab Number 801319

✓ see attached sheets

#571219-801271

Superfund

N. C. Department of Human Resources
Division of Health Services

SAMPLE ANALYSES REQUEST

State Laboratory of Public Health
P. O. Box 28047
306 N. Wilmington Street
Raleigh, 27611

Site Number 76D981864614 Field Sample Number 4013

Name of Site Ulah Battery Site Location Asheboro

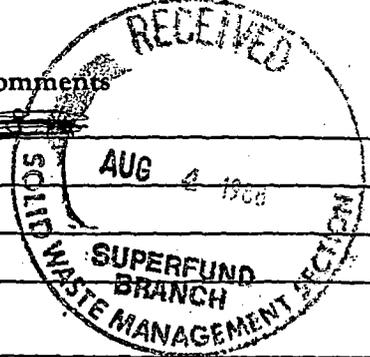
Collected By J. Butler ID# 44 Date Collected 5/26/88 Time 11-3

Type of Sample:

- | | |
|--|--------------------------------------|
| <input type="checkbox"/> Environmental | <input type="checkbox"/> Concentrate |
| <input type="checkbox"/> Groundwater (1) | <input type="checkbox"/> Solid (5) |
| <input type="checkbox"/> Surface Water (2) | <input type="checkbox"/> Liquid (6) |
| <input checked="" type="checkbox"/> Soil (3) | <input type="checkbox"/> Sludge (7) |
| <input type="checkbox"/> Other (4) | <input type="checkbox"/> Other (8) |

Comments

~~_____~~
~~_____~~
DH2 - 18 in



INORGANIC CHEMISTRY

Extractables		Total	
Parameter	Results mg/1	Parameter	Results mg/1
_____	_____	Arsenic	_____
_____	_____	Barium	_____
_____	_____	Cadmium	_____
_____	_____	Chloride	_____
_____	_____	Chromium	_____
_____	_____	Copper	_____
_____	_____	Fluoride	_____
_____	_____	Iron	_____
_____	_____	Lead	_____
_____	_____	Manganese	_____
_____	_____	Mercury	_____
_____	_____	Nitrate	_____
_____	_____	Selenium	_____
_____	_____	Silver	_____
_____	_____	Sulfates	_____
_____	_____	Zinc	_____
_____	_____	Ph	_____
_____	_____	Conductivity	_____
_____	_____	TDS	_____
_____	_____	TOC	_____

ORGANIC CHEMISTRY

Parameter	Results mg/1	Parameter	Results mg/1	Parameter	Results mg/1
<input checked="" type="checkbox"/> P&T:GC/MS	<input checked="" type="checkbox"/>	_____	_____	<input checked="" type="checkbox"/> Methoxychlor	<u>< 1.0 ppm</u>
<input checked="" type="checkbox"/> Acid:B/N Ext.	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/> PCB's	<u>< 0.10 ppm</u>	<input checked="" type="checkbox"/> Toxaphene	<u>< 2.0 ppm</u>
_____	_____	_____	_____	_____	_____
<input type="checkbox"/> TOX	_____	_____	_____	_____	_____
_____	_____	<input checked="" type="checkbox"/> Endrin	<u>< 0.10 ppm</u>	_____	_____
_____	_____	<input checked="" type="checkbox"/> Lindane	<u>< 0.40 ppm</u>	_____	_____
_____	_____	<input checked="" type="checkbox"/> Pesticides	_____	<input checked="" type="checkbox"/> Dioxin	<input checked="" type="checkbox"/>

MICROBIOLOGY

Parameter
_____ (MF) Coliform Colonies/100mls
_____ (MPN) Coliform Colonies/100mls

RADIOCHEMISTRY

Parameter	Results PCI/1
_____ Gross Alpha	_____
_____ Gross Beta	_____
_____	_____
_____	_____

Date Received 5-27-88 B/D Date Reported _____
 Date Extracted 6-3-88 (W/D), 6-13-88 LB Date Analyzed 6/16/88 UP 6-28-88
 Reported By _____ Lab Number 801320

Superfund

N. C. Department of Human Resources
Division of Health Services

SAMPLE ANALYSES REQUEST

State Laboratory of Public Health
P. O. Box 28047
306 N. Wilmington Street
Raleigh, 27611

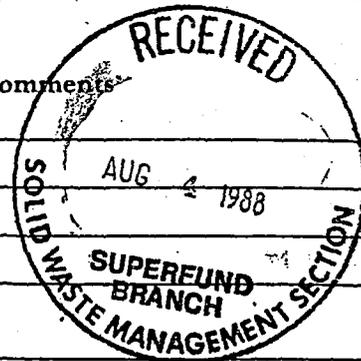
Site Number 76D981864614 Field Sample Number 4014
 Name of Site Ulan Battery Site Location Asheboro
 Collected By J. Butler ID# 44 Date Collected 5/26/88 Time 11-3

Type of Sample:

- | | |
|--|--------------------------------------|
| <input type="checkbox"/> Environmental | <input type="checkbox"/> Concentrate |
| <input type="checkbox"/> Groundwater (1) | <input type="checkbox"/> Solid (5) |
| <input type="checkbox"/> Surface Water (2) | <input type="checkbox"/> Liquid (6) |
| <input checked="" type="checkbox"/> Soil (3) | <input type="checkbox"/> Sludge (7) |
| <input type="checkbox"/> Other (4) | <input type="checkbox"/> Other (8) |

Comments

~~_____~~
BH2 - surf



INORGANIC CHEMISTRY

Extractables		Total			
Parameter	Results mg/l	Parameter	Results mg/l	Parameter	Results mg/l
<input type="checkbox"/> Arsenic	_____	<input type="checkbox"/> Arsenic	_____	<input type="checkbox"/> Silver	_____
<input type="checkbox"/> Barium	_____	<input type="checkbox"/> Barium	_____	<input type="checkbox"/> Sulfates	_____
<input type="checkbox"/> Cadmium	_____	<input type="checkbox"/> Cadmium	_____	<input type="checkbox"/> Zinc	_____
<input type="checkbox"/> Chromium	_____	<input type="checkbox"/> Chloride	_____	<input type="checkbox"/> Ph	_____
<input type="checkbox"/> Lead	_____	<input type="checkbox"/> Chromium	_____	<input type="checkbox"/> Conductivity	_____
<input type="checkbox"/> Mercury	_____	<input type="checkbox"/> Copper	_____	<input type="checkbox"/> TDS	_____
<input type="checkbox"/> Selenium	_____	<input type="checkbox"/> Fluoride	_____	<input type="checkbox"/> TOC	_____
<input type="checkbox"/> Silver	_____	<input type="checkbox"/> Iron	_____		
		<input type="checkbox"/> Lead	_____		
		<input type="checkbox"/> Manganese	_____		
		<input type="checkbox"/> Mercury	_____		
		<input type="checkbox"/> Nitrate	_____		
		<input type="checkbox"/> Selenium	_____		

ORGANIC CHEMISTRY

Parameter	Results mg/l	Parameter	Results mg/l	Parameter	Results mg/l
<input checked="" type="checkbox"/> P&T:GC/MS	<input checked="" type="checkbox"/>	<input type="checkbox"/> EDB	_____	<input checked="" type="checkbox"/> Methoxychlor	<u><1.0 ppm</u>
<input checked="" type="checkbox"/> Acid:B/N Ext.	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/> PCB's	<u>1.61 ppm</u>	<input checked="" type="checkbox"/> Toxaphene	<u><2.0 ppm</u>
<input type="checkbox"/> TOX	_____	<input type="checkbox"/> Petroleum	_____	<input type="checkbox"/> 2,4-D	_____
		<input checked="" type="checkbox"/> Endrin	<u><0.10 ppm</u>	<input type="checkbox"/> 2,4,5-TP (silvex)	_____
		<input checked="" type="checkbox"/> Lindane	<u><0.40 ppm</u>	<input checked="" type="checkbox"/> Dioxin	<input checked="" type="checkbox"/>
		<input checked="" type="checkbox"/> Pesticides			

MICROBIOLOGY

Parameter
<input type="checkbox"/> (MF) Coliform Colonies/100mls
<input type="checkbox"/> (MPN) Coliform Colonies/100mls

RADIOCHEMISTRY

Parameter	Results PCi/l
<input type="checkbox"/> Gross Alpha	_____
<input type="checkbox"/> Gross Beta	_____
_____	_____
_____	_____

Date Received 5-27-88 BLD Date Reported _____
 Date Extracted 6-3-88 RWBD, 6-13-88 LB Date Analyzed 6/16/88 VP
 Reported By _____ Lab Number 801321

Superfund

N. C. Department of Human Resources
Division of Health Services

SAMPLE ANALYSES REQUEST

State Laboratory of Public Health
P. O. Box 28047
306 N. Wilmington Street
Raleigh, 27611

Site Number 76D981864614 Field Sample Number 4015

Name of Site Ulah Battery Site Location Asheboro

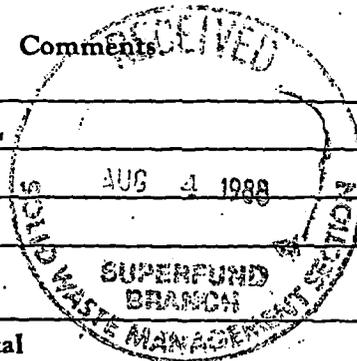
Collected By J. Butler ID# 44 Date Collected 5/26/88 Time 11-3

Type of Sample:

- | | |
|--|--------------------------------------|
| <input type="checkbox"/> Environmental | <input type="checkbox"/> Concentrate |
| <input type="checkbox"/> Groundwater (1) | <input type="checkbox"/> Solid (5) |
| <input type="checkbox"/> Surface Water (2) | <input type="checkbox"/> Liquid (6) |
| <input checked="" type="checkbox"/> Soil (3) | <input type="checkbox"/> Sludge (7) |
| <input type="checkbox"/> Other (4) | <input type="checkbox"/> Other (8) |

Comments

~~432~~
BH2-18 in.



INORGANIC CHEMISTRY

Extractables		Total			
Parameter	Results mg/1	Parameter	Results mg/1	Parameter	Results mg/1
— Arsenic	_____	— Arsenic	_____	— Silver	_____
— Barium	_____	— Barium	_____	— Sulfates	_____
— Cadmium	_____	— Cadmium	_____	— Zinc	_____
— Chromium	_____	— Chloride	_____	— Ph	_____
— Lead	_____	— Chromium	_____	— Conductivity	_____
— Mercury	_____	— Copper	_____	— TDS	_____
— Selenium	_____	— Fluoride	_____	— TOC	_____
— Silver	_____	— Iron	_____		
_____		— Lead	_____		
_____		— Manganese	_____		
_____		— Mercury	_____		
_____		— Nitrate	_____		
_____		— Selenium	_____		

ORGANIC CHEMISTRY

Parameter	Results mg/1	Parameter	Results mg/1	Parameter	Results mg/1
<input checked="" type="checkbox"/> P&T:GC/MS	<input checked="" type="checkbox"/>	— EDB	_____	<input checked="" type="checkbox"/> Methoxychlor	<u><1.0 ppm</u>
<input checked="" type="checkbox"/> Acid:B/N Ext.	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/> PCB's	<u><0.10 ppm</u>	<input checked="" type="checkbox"/> Toxaphene	<u><2.0 ppm</u>
— TOX	_____	— Petroleum	_____	— 2,4-D	_____
_____		<input checked="" type="checkbox"/> Endrin	<u><0.10 ppm</u>	— 2,4,5-TP (silvex)	_____
_____		<input checked="" type="checkbox"/> Lindane	<u><0.40 ppm</u>	<input checked="" type="checkbox"/> Dioxin	<input checked="" type="checkbox"/>
_____		<input checked="" type="checkbox"/> Pesticides			

MICROBIOLOGY

RADIOCHEMISTRY

Parameter	Parameter	Results PCi/1
— (MF) Coliform Colonies/100mls	— Gross Alpha	_____
— (MPN) Coliform Colonies/100mls	— Gross Beta	_____

Date Received 5-27-88 BID Date Reported _____
 Date Extracted 6-3-88 (WBD) PCB's Date Analyzed 6/16/88 (P) RWA PT
 Reported By _____ Lab Number 801322

Attachment E

1998

October 1988 - EPA RCRA TCLP Metals Analyses - SOIL
Ulah Battery Site, Asheboro, NC

PARAMETER	UNITS	DATE	Soil Analyses for TCLP Metals				IHSB Protect GW SRGs (Mg/Kg)
			# 1-N Lower	# 2- W Lower	# 5 - S Upper	# 6 - N Upper	
			Matrix	Soil	Soil	Soil	
Arsenic (As)	mg/kg	10/11/88	< 0.01	< 0.01	< 0.01	< 0.01	5.8
Barium	mg/kg	10/11/88	0.08	< 0.04	0.12	< 0.04	580
Cadmium	mg/kg	10/11/88	< 0.08	< 0.08	0.17	< 0.08	3
Chromium	mg/kg	10/11/88	< 0.20	< 0.20	< 0.20	< 0.20	27
Lead	mg/kg	10/11/88	2.8	< 1.00	131.0	7.5	270
Mercury	mg/kg	10/11/88	< 0.020	< 0.020	< 0.020	< 0.020	1.1
Selenium	mg/kg	10/11/88	< 0.005	< 0.005	< 0.005	< 0.005	2.1
Silver	mg/kg	10/11/88	< 0.20	< 0.20	< 0.20	< 0.20	3

NS = No Standard

U - 8 = Undetected at 8 Mg/Kg

October 1988 - EPA RCRA Total Metals Analyses - SOIL
Ulah Battery Site, Asheboro, NC

PARAMETER	UNITS	DATE	Soil Analyses for TOTAL Metals				IHSB PSRGs (mg/kg)
			# 1-N Lower	# 2- W Lower	# 5 - S Upper	# 6 - N Upper	
			Matrix	Soil	Soil	Soil	
Arsenic (As)	mg/kg	10/11/88	8	5	< 190	200.0	5.8
Barium	mg/kg	10/11/88	102	42	357	26	3,100
Cadmium	mg/kg	10/11/88	< 8.0	< 7.5	48	< 7.8	14
Chromium	mg/kg	10/11/88	< 20	< 19	30	20	27
Lead	mg/kg	10/11/88	17,000	2,400	97,000	45,000	400
Mercury	mg/kg	10/11/88	< 0.1	< 0.1	< 0.48	0.38	1.1
Selenium	mg/kg	10/11/88	< 2.5	< 2.4	< 480	< 245	7.8
Silver	mg/kg	10/11/88	< 20	< 19	< 19	< 0.20	780

NS = No Standard

U - 8 = Undetected at 8 Mg/Kg

NA = Not Analyzed

**October 1988 - EPA RCRA Total Metals Analyses - WATER
Ulah Battery Site, Asheboro, NC**

PARAMETER	UNITS	DATE	Soil Analyses for TOTAL Metals		Total Metals	
			# 3 Water in Battery Casing Soil	# 4 Hammond Well water Soil	IHSB	PSRGs
			Matrix	Soil	(mg/kg)	
<i>Arsenic (As)</i>	mg/kg	10/11/88	0.03	< 0.01	5.8	
<i>Barium</i>	mg/kg	10/11/88	0.1	< 0.1	3,100	
<i>Cadmium</i>	mg/kg	10/11/88	< 0.005	< 0.005	14	
<i>Chromium</i>	mg/kg	10/11/88	< 0.01	< 0.01	27	
<i>Lead</i>	mg/kg	10/11/88	1,000	< 0.03	400	
<i>Mercury</i>	mg/kg	10/11/88	< 0.0002	< 0.0002	1.1	
<i>Selenium</i>	mg/kg	10/11/88	< 0.005	< 0.005	7.8	
<i>Silver</i>	mg/kg	10/11/88	< 0.05	< 0.05	780	
<i>pH</i>		10/11/88	6.4	6.6		



State of North Carolina
Department of Environment, Health, and Natural Resources
512 North Salisbury Street • Raleigh, North Carolina 27604-1148

James B. Hunt, Jr., Governor

Division of Solid Waste Management

Jonathan B. Howes, Secretary

Telephone 919-733-2801
10 February 1993

Ms. Mary Jo Penick
US EPA Region IV
Removal Operations Section
345 Courtland Street, NE
Atlanta, Georgia 30365

Subject: Ulah Battery Lead Reclaiming
NCD 981 864 614

Dear Ms. Penick:

Enclosed please find a map of the Ulah Battery site showing pre-cleanup soil lead levels in the general area excavated and backfilled by the State in 1988. Also enclosed are two pages from my field notebook identifying six samples collected on 11 October 1988, and lab sheets for these samples. Samples 1 and 2 refer to the "lower pile" which is the battery pile in the woods at the end of the road. Samples 5 and 6 are from the battery pile behind Mr. Hoskin's house. Sample 3 is rain water from inside a battery casing at the lower pile or pile in the woods at the end of the road, and Sample 4 is drinking water from the Hammond residential well which is in the area excavated by the State in 1988. This information was also faxed to your office on this date.

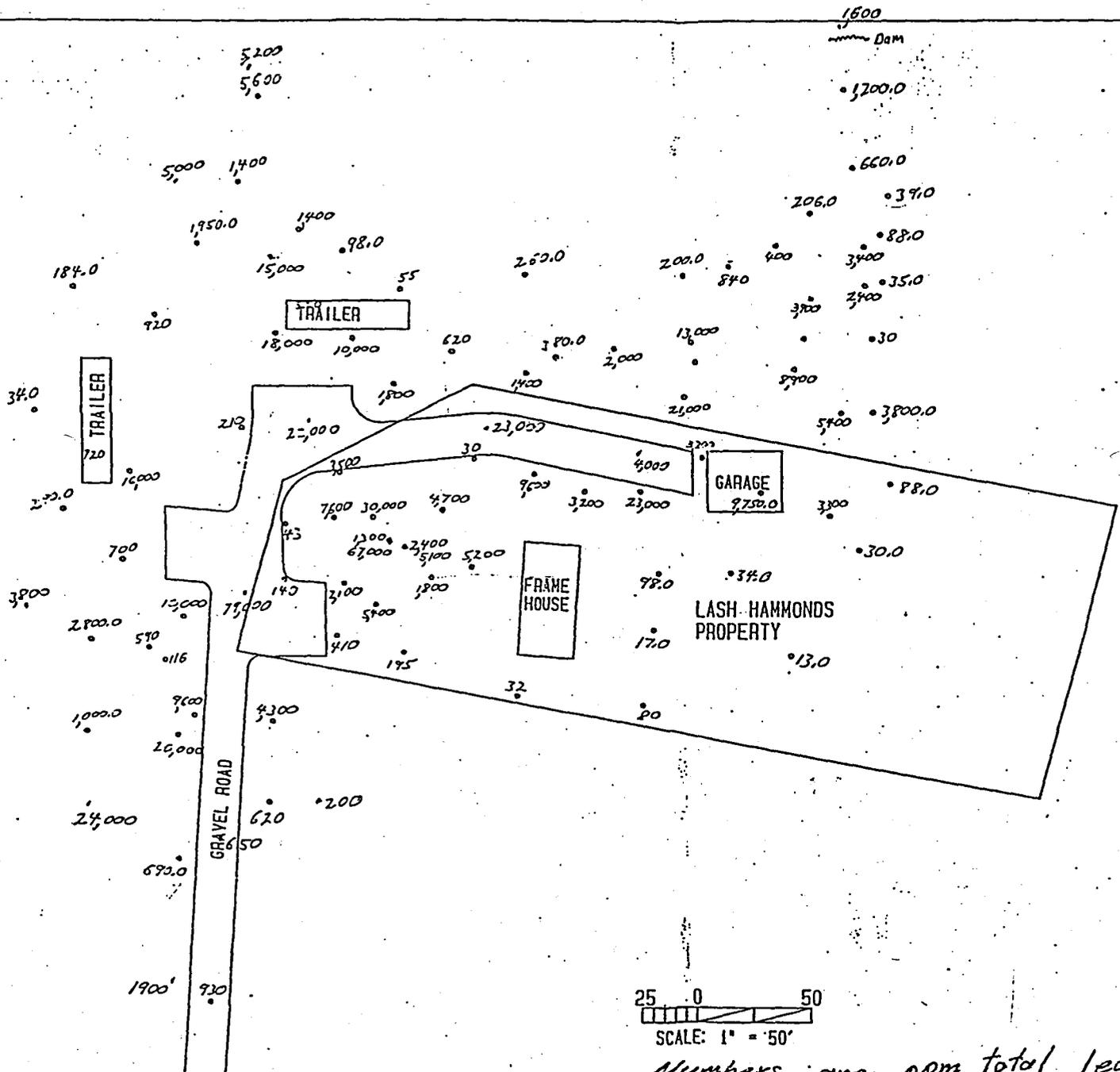
If you have any questions or would like to discuss this site further please contact me at (919) 733-2801.

Sincerely,

A handwritten signature in cursive script that reads "Jack Butler".

Jack Butler, PE
Environmental Engineering Supervisor
NC Superfund Section

Enclosure



↓ 122 (in front of Coviness House)
 ↓ 110 (at end of SR 1219)

Numbers are ppm total lead in soil.

REVISED 6/6/80
 REVISED 6/27/88

ULAH BATTERY ULAH, NORTH CAROLINA	
STATE SUPERFUND SITE CHARACTERIZATION	
SURVEYED BY: HHA	DATE: MAY 25/26, 1988
DRAWN BY: KHA	CHECKED BY: HHA

Wah. Battery Oct. 11, 1988

Post clean-up visit,
arrive at site 8:00 A.M.

Sample 1 - surface soil from
under battery casing on
upper side of lower pile.
(8:50).

Sample 2 - surface soil from
under battery casing at
low spot on lower side
of lower pile. (9:30).

Sample 3 - water from inside
3 battery casings (all black),
(9:00). (Last rain Oct. 2, 3, 4, 1988).

Sample 4 - Hammond well
water. (9:45) (Org. + Inorg.)

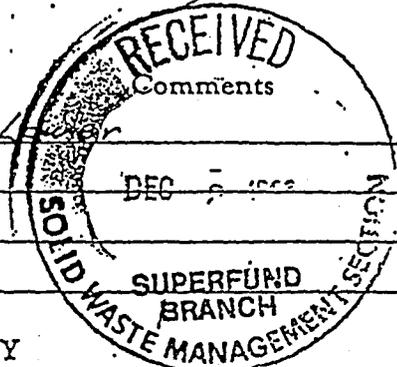
Sample 5 - ^{surface} soil from under
battery casing on back side
of Hoshino battery pile. (cont.)

Sample 6 - Surface soil from
area of crushed casings on
front side of Hopkins battery
pile.
10:00 - Centel arrived.

SAMPLE ANALYSES REQUEST

Number 76 ~~180981864614~~ Field Sample Number 3100
 of Site Ulah Battery Site Location Asheboro, N.C.
 Submitted By Jack Butler ID# 44 Date Collected Oct. 11, 1988 Time 10:00

Type of Sample:
 Environmental Concentrate
 Groundwater (1) Solid (5)
 Surface Water (2) Liquid (6)
 Soil (3) Sludge (7)
 Other (4) Other (8)



#1 - N

INORGANIC CHEMISTRY

Extractables		Total			
Parameter	Results mg/l	Parameter	Results mg/l	Parameter	Results mg/l
Arsenic	<0.01	✓ Arsenic	8	✓ Silver	<20
Barium	0.08	✓ Barium	102	Sulfates	
Cadmium	<0.08	✓ Cadmium	<8.0	Zinc	
Chromium	<0.20	Chloride		Ph.	
Lead	2.8	✓ Chromium	<20	Conductivity	
Mercury	<0.02	Copper		TDS	
Selenium	<0.005	Fluoride		TOC	
Silver	<0.20	Iron			
		✓ Lead	17,000		
		Manganese			
		✓ Mercury	<0.1		
		Nitrate			
		✓ Selenium	<2.5		

ORGANIC CHEMISTRY

Parameter	Results mg/l	Parameter	Results mg/l	Parameter	Results mg/l
P&T:GC/MS		EDB		Methoxychlor	
Acid:B/N Ext.		PCB's		Toxaphene	
TOX		Petroleum		2,4-D	
		Endrin		2,4,5-TP (silvex)	
		Lindane			

MICROBIOLOGY

RADIOCHEMISTRY

Parameter	Results	Parameter	Results PCi/l
(MF) Coliform Colonies/100mls		Gross Alpha	
(MPN) Coliform Colonies/100mls		Gross Beta	

Received _____ Date Reported 017405 OCT 12 88
 Extracted _____ Date Analyzed _____
 Reported By _____ Lab Number _____

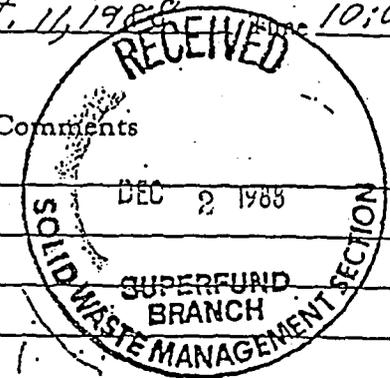
SAMPLE ANALYSES REQUEST

76
Number 10981864614 Field Sample Number 3101

Site Ulab Battery Site Location Asheboro, N.C.

By Jack Butler ID# 44 Date Collected Oct. 11, 1988 Time 10:00

Sample: Environmental Concentrate
 Groundwater (1) Solid (5) Z-W Lower
 Surface Water (2) Liquid (6)
 Soil (3) Sludge (7)
 Other (4) Other (8)
 Comments



INORGANIC CHEMISTRY

Extractables		Total			
Parameter	Results mg/l	Parameter	Results mg/l	Parameter	Results mg/l
Arsenic	< 0.01	✓ Arsenic	5	✓ Silver	< 19
Barium	< 0.04	✓ Barium	42	Sulfates	
Cadmium	< 0.08	✓ Cadmium	< 7.5	Zinc	
Chromium	< 0.20	Chloride		Ph	
Lead	< 1.00	✓ Chromium	< 19	Conductivity	
Mercury	< 0.02	Copper		TDS	
Selenium	< 0.005	Fluoride		TOC	
Silver	< 0.20	Iron			
		✓ Lead	2400		
		Manganese			
		✓ Mercury	< 0.1		
		Nitrate			
		✓ Selenium	< 2.4		

ORGANIC CHEMISTRY

Parameter	Results mg/l	Parameter	Results mg/l	Parameter	Results mg/l
&T:GC/MS		EDB		Methoxychlor	
Acid:B/N Ext.		PCB's		Toxaphene	
TOX		Petroleum		2,4-D	
		Endrin		2,4,5-TP (silvex)	
		Lindane			

MICROBIOLOGY

RADIOCHEMISTRY

Parameter	Parameter	Results PCi/1
MF) Coliform Colonies/100mls	Gross Alpha	
MPN) Coliform Colonies/100mls	Gross Beta	

Received _____ Date Reported 017406 OCT 12 88
 Extracted _____ Date Analyzed _____
 Prepared By _____ Lab Number _____

Number 76 ~~ED981864614~~ Field Sample Number 3102
 Name of Site Ulah Battery Site Location Asheboro, N.C.
 Collected By Jack Butler ID# 44 Date Collected Oct. 14, 1988 Time 10:00

Type of Sample:
 Environmental Concentrate Comments
 Groundwater (1) Solid (5) #3 - Water From Battery
 Surface Water (2) Liquid (6) (Not preserved)
 Soil (3) Sludge (7)
 Other (4) Other (8)

INORGANIC CHEMISTRY

Extractables		Total			
Parameter	Results mg/l	Parameter	Results mg/l	Parameter	Results mg/l
<input type="checkbox"/> Arsenic		<input checked="" type="checkbox"/> Arsenic	<u>0.03</u>	<input checked="" type="checkbox"/> Silver	<u>20.05</u>
<input type="checkbox"/> Barium		<input checked="" type="checkbox"/> Barium	<u>0.1</u>	<input type="checkbox"/> Sulfates	
<input type="checkbox"/> Cadmium		<input checked="" type="checkbox"/> Cadmium	<u><0.005</u>	<input type="checkbox"/> Zinc	
<input type="checkbox"/> Chromium		<input type="checkbox"/> Chloride		<input type="checkbox"/> Ph	<u>0.4</u>
<input type="checkbox"/> Lead		<input checked="" type="checkbox"/> Chromium	<u><0.01</u>	<input type="checkbox"/> Conductivity	
<input type="checkbox"/> Mercury		<input type="checkbox"/> Copper		<input type="checkbox"/> TDS	
<input type="checkbox"/> Selenium		<input type="checkbox"/> Fluoride		<input type="checkbox"/> TOC	
<input type="checkbox"/> Silver		<input type="checkbox"/> Iron			
		<input checked="" type="checkbox"/> Lead	<u>10.00</u>		
		<input type="checkbox"/> Manganese			
		<input checked="" type="checkbox"/> Mercury	<u>20.0002</u>		
		<input type="checkbox"/> Nitrate			
		<input checked="" type="checkbox"/> Selenium	<u><0.005</u>		

ORGANIC CHEMISTRY

Parameter	Results mg/l	Parameter	Results mg/l	Parameter	Results mg/l
<input type="checkbox"/> P&T:GC/MS		<input type="checkbox"/> EDB		<input type="checkbox"/> Methoxychlor	
<input type="checkbox"/> Acid:B/N Ext.		<input type="checkbox"/> PCB's		<input type="checkbox"/> Toxaphene	
<input type="checkbox"/> TOX		<input type="checkbox"/> Petroleum		<input type="checkbox"/> 2,4-D	
		<input type="checkbox"/> Endrin		<input type="checkbox"/> 2,4,5-TP (silvex)	
		<input type="checkbox"/> Lindane			

MICROBIOLOGY

RADIOCHEMISTRY

Parameter	Parameter	Results PCi/l
<input type="checkbox"/> (MF) Coliform Colonies/100mls	<input type="checkbox"/> Gross Alpha	
<input type="checkbox"/> (MPN) Coliform Colonies/100mls	<input type="checkbox"/> Gross Beta	

Date Received _____ Date Reported 10/26/88
 Date Extracted _____ Date Analyzed _____
 Reported By _____ Lab Number 019440 OCT 1388

SAMPLE ANALYSES REQUEST

Number 76 ~~130~~ 981864614 Field Sample Number 3103
 Name of Site Ulah Battery Site Location Asheboro, N.C.
 Collected By Jack Butler ID# 44 Date Collected Oct. 11, 1988 Time 10:00

Type of Sample:

Environmental Concentrate
 Groundwater (1) Solid (5)
 Surface Water (2) Liquid (6)
 Soil (3) Sludge (7)
 Other (4) Other (8)

Comments
#4 - Hammond Well
(NOT preserved)

INORGANIC CHEMISTRY

Extractables		Total			
Parameter	Results mg/l	Parameter	Results mg/l	Parameter	Results mg/l
<input type="checkbox"/> Arsenic		<input checked="" type="checkbox"/> Arsenic	<u><0.01</u>	<input checked="" type="checkbox"/> Silver	<u><0.05</u>
<input type="checkbox"/> Barium		<input checked="" type="checkbox"/> Barium	<u><0.1</u>	<input type="checkbox"/> Sulfates	
<input type="checkbox"/> Cadmium		<input checked="" type="checkbox"/> Cadmium	<u><0.005</u>	<input type="checkbox"/> Zinc	
<input type="checkbox"/> Chromium		<input type="checkbox"/> Chloride		<input type="checkbox"/> Ph	<u>6.6</u>
<input type="checkbox"/> Lead		<input checked="" type="checkbox"/> Chromium	<u><0.01</u>	<input type="checkbox"/> Conductivity	
<input type="checkbox"/> Mercury		<input type="checkbox"/> Copper		<input type="checkbox"/> TDS	
<input type="checkbox"/> Selenium		<input type="checkbox"/> Fluoride		<input type="checkbox"/> TOC	
<input type="checkbox"/> Silver		<input type="checkbox"/> Iron			
		<input checked="" type="checkbox"/> Lead	<u><0.03</u>		
		<input type="checkbox"/> Manganese			
		<input checked="" type="checkbox"/> Mercury	<u><0.0002</u>		
		<input type="checkbox"/> Nitrate			
		<input checked="" type="checkbox"/> Selenium	<u><0.005</u>		

ORGANIC CHEMISTRY

Parameter	Results mg/l	Parameter	Results mg/l	Parameter	Results mg/l
<input type="checkbox"/> P&T:GC/MS		<input type="checkbox"/> EDB		<input type="checkbox"/> Methoxychlor	
<input type="checkbox"/> Acid:B/N Ext.		<input type="checkbox"/> PCB's		<input type="checkbox"/> Toxaphene	
<input type="checkbox"/> TOX		<input type="checkbox"/> Petroleum		<input type="checkbox"/> 2,4-D	
		<input type="checkbox"/> Endrin		<input type="checkbox"/> 2,4,5-TP (silvex)	
		<input type="checkbox"/> Lindane			

MICROBIOLOGY

RADIOCHEMISTRY

Parameter	Parameter	Results PCi/l
<input type="checkbox"/> (MF) Coliform Colonies/100mls	<input type="checkbox"/> Gross Alpha	
<input type="checkbox"/> (MPN) Coliform Colonies/100mls	<input type="checkbox"/> Gross Beta	

Date Received _____ Date Reported 10/26/88
 Date Extracted _____ Date Analyzed _____
 Reported By _____ Lab Number 019439 OCT 13 88

SAMPLE ANALYSES REQUEST

76
 Number 0981864614 Field Sample Number 3104
 Site Ulab Battery Site Location Asheboro, N.C.
 By Jack Butler ID# 44 Date Collected Oct. 11, 1988 Time 10:00

Sample:
 Environmental Concentrate
 - Groundwater (1) _____ Solid (5) _____
 - Surface Water (2) _____ Liquid (6) _____
 - Soil (3) _____ Sludge (7) _____
 - Other (4) _____ Other (8) _____

Comments: #5 - 5 - Upper



INORGANIC CHEMISTRY

Extractables		Total			
Parameter	Results mg/l	Parameter	Results mg/l	Parameter	Results mg/l
Arsenic	<0.01	✓ Arsenic	<190	✓ Silver	<19
Barium	0.12	✓ Barium	357	Sulfates	
Cadmium	0.17	✓ Cadmium	48	Zinc	
Chromium	20.20	Chloride		Ph	
Copper	131	✓ Chromium	30	Conductivity	
Fluoride	<0.02	Copper		TDS	
Iron	<0.005	Fluoride		TOC	
Lead	<0.20	Iron			
		✓ Lead	97,000		
		Manganese			
		✓ Mercury	≤ 0.48		
		Nitrate			
		✓ Selenium	<480		

ORGANIC CHEMISTRY

Parameter	Results mg/l	Parameter	Results mg/l	Parameter	Results mg/l
GC/MS		EDB		Methoxychlor	
acid:B/N Ext.		PCB's		Toxaphene	
OX		Petroleum		2,4-D	
		Endrin		2,4,5-TP (silvex)	
		Lindane			

MICROBIOLOGY

RADIOCHEMISTRY

Parameter	Parameter	Results PCi/1
(F) Coliform Colonies/100mls	Gross Alpha	
(PN) Coliform Colonies/100mls	Gross Beta	

Received _____ Date Reported 019407 OCT 12 88
 Extracted _____ Date Analyzed _____
 By _____ Lab Number _____

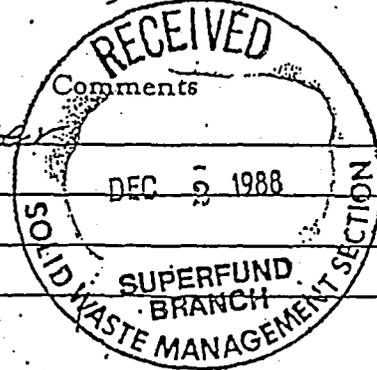
SAMPLE ANALYSES REQUEST

Number 76 ~~AD981864614~~ Field Sample Number 3105
 Site Ulab Battery Site Location Asheboro, N.C.
 Collected By Jack Butler ID# 44 Date Collected Oct. 11, 1988 Time 10:00

Sample:

- Environmental Concentrate
- Groundwater (1) Solid (5)
 - Surface Water (2) Liquid (6)
 - Soil (3) Sludge (7)
 - Other (4) Other (8)

6-5-Upper



INORGANIC CHEMISTRY

Extractables		Total			
Parameter	Results mg/l	Parameter	Results mg/l	Parameter	Results mg/l
Arsenic	<0.01	<input checked="" type="checkbox"/> Arsenic	2.00	<input checked="" type="checkbox"/> Silver	<2.0
Barium	<0.04	<input checked="" type="checkbox"/> Barium	26	Sulfates	
Cadmium	<0.08	<input checked="" type="checkbox"/> Cadmium	<7.8	Zinc	
Chromium	<0.20	Chloride		Ph	
Lead	7.5	<input checked="" type="checkbox"/> Chromium	2.0	Conductivity	
Mercury	<0.02	Copper		TDS	
Selenium	<0.05	Fluoride		TOC	
Copper	<0.20	Iron			
		<input checked="" type="checkbox"/> Lead	45,000		
		Manganese			
		<input checked="" type="checkbox"/> Mercury	0.38		
		Nitrate			
		<input checked="" type="checkbox"/> Selenium	<245		

ORGANIC CHEMISTRY

Parameter	Results mg/l	Parameter	Results mg/l	Parameter	Results mg/l
GC/MS		EDB		Methoxychlor	
acid/B/N Ext.		PCB's		Toxaphene	
OX		Petroleum		2,4-D	
		Endrin		2,4,5-TP (silvex)	
		Lindane			

MICROBIOLOGY

RADIOCHEMISTRY

Parameter	Parameter	Results PCi/l
MF) Coliform Colonies/100mls	Gross Alpha	
MPN) Coliform Colonies/100mls	Gross Beta	

Received _____ Date Reported 019408 OCT 12 88
 Collected _____ Date Analyzed _____
 Collected By _____ Lab Number _____

Attachment F

1990

**MAY 1990 - EPA RCRA Total Metals Analyses - WATER
Ulah Battery Site, Asheboro, NC**

PARAMETER	UNITS	DATE	WATER Analyses for TOTAL Metals				Total Metals
			# 1 Hammon Well water	# 2 McMillon Well water	# 3 Hoskins Well water	# 5 Hammond Well water	IHSB PSRGs (mg/kg)
			Matrix Water	Water	Water	Water	
Arsenic (As)	mg/l	5/30/90	< 0.01	< 0.01	< 0.01	< 0.01	5.8
Barium	mg/l	5/30/90	< 0.1	< 0.1	< 0.1	< 0.1	3,100
Cadmium	mg/l	5/30/90	< 0.005	< 0.005	< 0.005	< 0.005	14
Chromium	mg/l	5/30/90	< 0.01	< 0.01	< 0.01	< 0.01	27
Lead	mg/l	5/30/90	< 0.005	< 0.005	< 0.005	< 0.005	400
Mercury	mg/l	5/30/90	< 0.0002	< 0.0002	< 0.0002	< 0.0002	1.1
Selenium	mg/l	5/30/90	< 0.005	< 0.005	< 0.005	< 0.005	7.8
Silver	mg/l	5/30/90	< 0.05	< 0.05	< 0.05	< 0.05	780

The results of multiple GW sampling events in the source and surrounding water supply wells have shown no detections of the RCRA Metals. It is concluded from analyses that metals are not a concern to GW at the site.

April 15, 1989

TO: File

FROM: Jack Butler

SUBJECT: March 22, 1989 well sampling result notifications,
Ulah Battery, NCD981864614

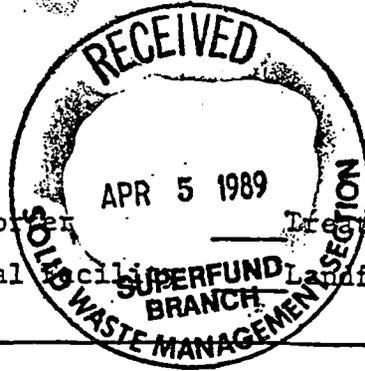
Mrs. Lina Hamond, Mrs. Bessie McMillan, and Mrs. Nellie Hoskins were notified on April 13 and 15, 1989 that the laboratory analysis of water samples collected from their wells on 22 March 1989, indicated no lead contamination was present.

JB/ds/ulah.doc/p.6

DIVISION OF HEALTH SERVICES
SOLID AND HAZARDOUS WASTE MANAGEMENT BRANCH

Chain of Custody Record

Hazardous Waste Materials



Location of Sampling: Generator Transporter Treatment Facility
Storage Facility Disposal Facility Landfill
 Other: Superfund

Company's Name Ulah Battery Telephone () _____

Address Asheboro, N.C.

Collector's Name Jack Butler Telephone (919) 733-2801
signature

Date Sampled March 17, 1989 Time Sampled P.M.

Type of Process Generating Waste Battery Breaker

Field Information

Field Sample No. 3247 3248 3249

Chain of Possession:

1.	<u>J.B. Butler</u> signature	<u>Env. Eng.</u> title	<u>March 17-20, 1989</u> inclusive dates
2.	<u>Shirley Bell</u> signature	<u>Chemist - Rad</u> title	<u>3-20-89</u> inclusive dates
3.	_____ signature	_____ title	_____ inclusive dates

Results reported

signature title date

Instructions: Complete all applicable information including signatures, and submit with analysis request forms.

SAMPLE ANALYSES REQUEST

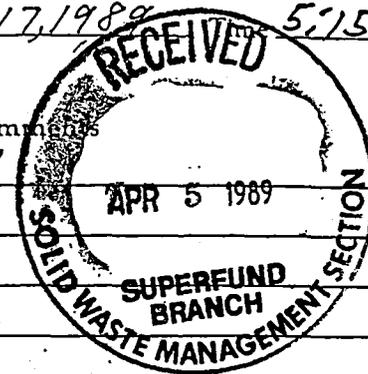
Sample Number 76D981864614 Field Sample Number 3249
 Name of Site Ulah Battery Site Location Asheboro, N.C.
 Collected By Jack Butler ID# 44 Date Collected March 17, 1989 5:15

Type of Sample:

- Environmental Concentrate
- Groundwater (1) Solid (5)
- Surface Water (2) Liquid (6)
- Soil (3) Sludge (7)
- Other (4) Other (8)

Comments

3-Hoskins Well



INORGANIC CHEMISTRY

Extractables		Total			
Parameter	Results mg/1	Parameter	Results mg/1	Parameter	Results mg/1
<input type="checkbox"/> Arsenic		<input checked="" type="checkbox"/> Arsenic	<u><0.01</u>	<input checked="" type="checkbox"/> Silver	<u><0.05</u>
<input type="checkbox"/> Barium		<input checked="" type="checkbox"/> Barium	<u>0.1</u>	<input type="checkbox"/> Sulfates	
<input type="checkbox"/> Cadmium		<input checked="" type="checkbox"/> Cadmium	<u><0.005</u>	<input type="checkbox"/> Zinc	
<input type="checkbox"/> Chromium		<input type="checkbox"/> Chloride		<input type="checkbox"/> Ph	
<input type="checkbox"/> Lead		<input checked="" type="checkbox"/> Chromium	<u><0.01</u>	<input type="checkbox"/> Conductivity	
<input type="checkbox"/> Mercury		<input type="checkbox"/> Copper		<input type="checkbox"/> TDS	
<input type="checkbox"/> Selenium		<input type="checkbox"/> Fluoride		<input type="checkbox"/> TOC	
<input type="checkbox"/> Silver		<input type="checkbox"/> Iron			
		<input checked="" type="checkbox"/> Lead	<u><0.03</u>		
		<input type="checkbox"/> Manganese			
		<input checked="" type="checkbox"/> Mercury	<u><0.0002</u>		
		<input type="checkbox"/> Nitrate			
		<input checked="" type="checkbox"/> Selenium	<u><0.01</u>		

ORGANIC CHEMISTRY

Parameter	Results mg/1	Parameter	Results mg/1	Parameter	Results mg/1
<input type="checkbox"/> P&T:GC/MS		<input type="checkbox"/> EDB		<input type="checkbox"/> Methoxychlor	
<input type="checkbox"/> Acid:B/N Ext.		<input type="checkbox"/> PCB's		<input type="checkbox"/> Toxaphene	
<input type="checkbox"/> TOX		<input type="checkbox"/> Petroleum		<input type="checkbox"/> 2,4-D	
		<input type="checkbox"/> Endrin		<input type="checkbox"/> 2,4,5-TP (silvex)	
		<input type="checkbox"/> Lindane			

MICROBIOLOGY

RADIOCHEMISTRY

Parameter	Parameter	Results PCi/1
<input type="checkbox"/> (MF) Coliform Colonies/100mls	<input type="checkbox"/> Gross Alpha	
<input type="checkbox"/> (MPN) Coliform Colonies/100mls	<input type="checkbox"/> Gross Beta	

Date Received _____ Date Reported 4/3/89

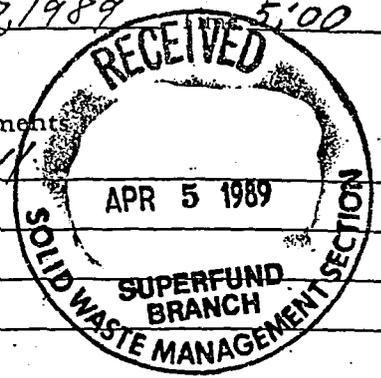
Date Extracted _____ Date Analyzed _____

Reported By _____ Lab Number 05948 MAR 21 89

SAMPLE ANALYSES REQUEST

Number 760981864614 Field Sample Number 3248
 Name of Site Ulah Battery Site Location Asheboro, N.C.
 Collected By Jack Butler ID# 44 Date Collected March 17, 1989 5:00

Type of Sample:
 Environmental Concentrate
 Groundwater (1) Solid (5)
 Surface Water (2) Liquid (6)
 Soil (3) Sludge (7)
 Other (4) Other (8)
 Comment: Z-McMillon Well



INORGANIC CHEMISTRY

Extractables		Total			
Parameter	Results mg/l	Parameter	Results mg/l	Parameter	Results mg/l
<input type="checkbox"/> Arsenic		<input checked="" type="checkbox"/> Arsenic	<u><0.01</u>	<input checked="" type="checkbox"/> Silver	<u><0.05</u>
<input type="checkbox"/> Barium		<input checked="" type="checkbox"/> Barium	<u><0.1</u>	<input type="checkbox"/> Sulfates	
<input type="checkbox"/> Cadmium		<input checked="" type="checkbox"/> Cadmium	<u><0.005</u>	<input type="checkbox"/> Zinc	
<input type="checkbox"/> Chromium		<input type="checkbox"/> Chloride		<input type="checkbox"/> Ph	
<input type="checkbox"/> Lead		<input checked="" type="checkbox"/> Chromium	<u><0.02</u>	<input type="checkbox"/> Conductivity	
<input type="checkbox"/> Mercury		<input type="checkbox"/> Copper		<input type="checkbox"/> TDS	
<input type="checkbox"/> Selenium		<input type="checkbox"/> Fluoride		<input type="checkbox"/> TOC	
<input type="checkbox"/> Silver		<input type="checkbox"/> Iron			
		<input checked="" type="checkbox"/> Lead	<u><0.03</u>		
		<input type="checkbox"/> Manganese			
		<input checked="" type="checkbox"/> Mercury	<u><0.0002</u>		
		<input type="checkbox"/> Nitrate			
		<input checked="" type="checkbox"/> Selenium	<u><0.005</u>		

ORGANIC CHEMISTRY

Parameter	Results mg/l	Parameter	Results mg/l	Parameter	Results mg/l
<input type="checkbox"/> P&T:GC/MS		<input type="checkbox"/> EDB		<input type="checkbox"/> Methoxychlor	
<input type="checkbox"/> Acid:B/N Ext.		<input type="checkbox"/> PCB's		<input type="checkbox"/> Toxaphene	
<input type="checkbox"/> TOX		<input type="checkbox"/> Petroleum		<input type="checkbox"/> 2,4-D	
		<input type="checkbox"/> Endrin		<input type="checkbox"/> 2,4,5-TP (silvex)	
		<input type="checkbox"/> Lindane			

MICROBIOLOGY

RADIOCHEMISTRY

Parameter	Parameter	Results PCi/l
<input type="checkbox"/> (MF) Coliform Colonies/100mls	<input type="checkbox"/> Gross Alpha	
<input type="checkbox"/> (MPN) Coliform Colonies/100mls	<input type="checkbox"/> Gross Beta	

Date Received _____ Date Reported 4/3/89
 Date Extracted _____ Date Analyzed _____
 Reported By _____ Lab Number 05947 MAR 21 89

SAMPLE ANALYSES REQUEST

Site Number 760981864614 Field Sample Number 3247

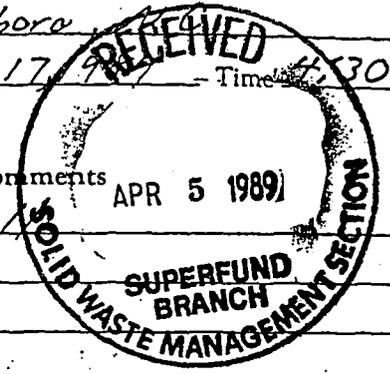
Name of Site Ulah Battery Site Location Asheboro

Collected By Jack Butler ID# 44 Date Collected March 17, 1989 Time 4:30

Type of Sample:

- | | |
|---|-------------------------------------|
| Environmental | Concentrate |
| <input checked="" type="checkbox"/> Groundwater (1) | <input type="checkbox"/> Solid (5) |
| <input type="checkbox"/> Surface Water (2) | <input type="checkbox"/> Liquid (6) |
| <input type="checkbox"/> Soil (3) | <input type="checkbox"/> Sludge (7) |
| <input type="checkbox"/> Other (4) | <input type="checkbox"/> Other (8) |

Comments 1 - Hammon Well



INORGANIC CHEMISTRY

Extractables		Total			
Parameter	Results mg/1	Parameter	Results mg/1	Parameter	Results mg/1
<input type="checkbox"/> Arsenic		<input checked="" type="checkbox"/> Arsenic	<u><0.01</u>	<input checked="" type="checkbox"/> Silver	<u><0.05</u>
<input type="checkbox"/> Barium		<input checked="" type="checkbox"/> Barium	<u><0.1</u>	<input type="checkbox"/> Sulfates	
<input type="checkbox"/> Cadmium		<input checked="" type="checkbox"/> Cadmium	<u><0.005</u>	<input type="checkbox"/> Zinc	
<input type="checkbox"/> Chromium		<input type="checkbox"/> Chloride		<input type="checkbox"/> Ph	
<input type="checkbox"/> Lead		<input checked="" type="checkbox"/> Chromium	<u><0.01</u>	<input type="checkbox"/> Conductivity	
<input type="checkbox"/> Mercury		<input type="checkbox"/> Copper		<input type="checkbox"/> TDS	
<input type="checkbox"/> Selenium		<input type="checkbox"/> Fluoride		<input type="checkbox"/> TOC	
<input type="checkbox"/> Silver		<input type="checkbox"/> Iron			
		<input checked="" type="checkbox"/> Lead	<u><0.03</u>		
		<input type="checkbox"/> Manganese			
		<input checked="" type="checkbox"/> Mercury	<u><0.0002</u>		
		<input type="checkbox"/> Nitrate			
		<input checked="" type="checkbox"/> Selenium	<u><0.005</u>		

ORGANIC CHEMISTRY

Parameter	Results mg/1	Parameter	Results mg/1	Parameter	Results mg/1
<input type="checkbox"/> P&T:GC/MS		<input type="checkbox"/> EDB		<input type="checkbox"/> Methoxychlor	
<input type="checkbox"/> Acid:B/N Ext.		<input type="checkbox"/> PCB's		<input type="checkbox"/> Toxaphene	
<input type="checkbox"/> TOX		<input type="checkbox"/> Petroleum		<input type="checkbox"/> 2,4-D	
		<input type="checkbox"/> Endrin		<input type="checkbox"/> 2,4,5-TP (silvex)	
		<input type="checkbox"/> Lindane			

MICROBIOLOGY

RADIOCHEMISTRY

Parameter	Parameter	Results PCi/1
<input type="checkbox"/> (MF) Coliform Colonies/100mls	<input type="checkbox"/> Gross Alpha	
<input type="checkbox"/> (MPN) Coliform Colonies/100mls	<input type="checkbox"/> Gross Beta	

Date Received _____ Date Reported 4/13/89

Date Extracted _____ Date Analyzed _____

Reported By _____ Lab Number 05946 MAR 21 89

SAMPLE ANALYSES REQUEST

RECEIVED

JUN 19 1990

SUPERFUND SECTION

Site Number 760981864614 Field Sample Number 15812
Name of Site Ulah Battery Site Location Asheboro, N.C.
Collected By Jack Butler ID# 44 Date Collected 30 May 1990 Time 2:55 P.

Type of Sample:

Environmental	Concentrate	Comments
<input checked="" type="checkbox"/> Groundwater (1)	<input type="checkbox"/> Solid (5)	<u>#5-Hammon Well</u>
<input type="checkbox"/> Surface Water (2)	<input type="checkbox"/> Liquid (6)	<u>Acidified</u>
<input type="checkbox"/> Soil (3)	<input type="checkbox"/> Sludge (7)	
<input type="checkbox"/> Other (4)	<input type="checkbox"/> Other (8)	

INORGANIC CHEMISTRY

Extractables		Total			
Parameter	Results mg/l	Parameter	Results mg/l	Parameter	Results mg/l
<input type="checkbox"/> Arsenic		<input checked="" type="checkbox"/> Arsenic	<u><0.01</u>	<input checked="" type="checkbox"/> Silver	<u><0.05</u>
<input type="checkbox"/> Barium		<input checked="" type="checkbox"/> Barium	<u><0.1</u>	<input type="checkbox"/> Sulfates	
<input type="checkbox"/> Cadmium		<input checked="" type="checkbox"/> Cadmium	<u><0.005</u>	<input type="checkbox"/> Zinc	
<input type="checkbox"/> Chromium		<input type="checkbox"/> Chloride		<input type="checkbox"/> Ph	
<input type="checkbox"/> Lead		<input checked="" type="checkbox"/> Chromium	<u><0.01</u>	<input type="checkbox"/> Conductivity	
<input type="checkbox"/> Mercury		<input type="checkbox"/> Copper		<input type="checkbox"/> TDS	
<input type="checkbox"/> Selenium		<input type="checkbox"/> Fluoride		<input type="checkbox"/> TOC	
<input type="checkbox"/> Silver		<input type="checkbox"/> Iron			
		<input checked="" type="checkbox"/> Lead	<u><0.005</u>		
		<input type="checkbox"/> Manganese			
		<input checked="" type="checkbox"/> Mercury	<u><0.0002</u>		
		<input type="checkbox"/> Nitrate			
		<input checked="" type="checkbox"/> Selenium	<u><0.005</u>		

ORGANIC CHEMISTRY

Parameter	Results mg/l	Parameter	Results mg/l	Parameter	Results mg/l
<input type="checkbox"/> P&T:GC/MS		<input type="checkbox"/> EDB		<input type="checkbox"/> Methoxychlor	
<input type="checkbox"/> Acid:B/N Ext.		<input type="checkbox"/> PCB's		<input type="checkbox"/> Toxaphene	
<input type="checkbox"/> TOX		<input type="checkbox"/> Petroleum		<input type="checkbox"/> 2,4-D	
		<input type="checkbox"/> Endrin		<input type="checkbox"/> 2,4,5-TP (silvex)	
		<input type="checkbox"/> Lindane			

MICROBIOLOGY

RADIOCHEMISTRY

Parameter	Parameter	Results PCi/1
<input type="checkbox"/> (MF) Coliform Colonies/100mls	<input type="checkbox"/> Gross Alpha	
<input type="checkbox"/> (MPN) Coliform Colonies/100mls	<input type="checkbox"/> Gross Beta	

Date Received _____ Date Reported 6/15/90
Date Extracted _____ Date Analyzed _____
Reported By _____ Lab Number 6/15/90

DIVISION OF HEALTH SERVICES
SOLID AND HAZARDOUS WASTE MANAGEMENT

Chain of Custody Record

Hazardous Waste Materials

Location of Sampling: Generator Transporter Treatment Facility
 Storage Facility Disposal Facility Landfill
 Other: Private Well

Company's Name Ulah Battery Telephone () NONE

Address Asheboro, N.C.

Collector's Name Jack Butler Telephone (919) 733-2801
signature

Date Sampled 30 May 1990 Time Sampled 2:55 P.M.

Type of Process Generating Waste _____

Field Information

Field Sample No. 15812

Chain of Possession:

1. Jack Butler signature Env. Eng. title 30-31 May 1990 inclusive dates
2. Jayce Davis signature Chem Analyst title 31 May 90 inclusive dates
3. _____ signature _____ title _____ inclusive dates

Results reported

signature title date

Instructions: Complete all applicable information including signatures, and submit with analysis request forms.

Attachment G

**EPA Soil Analyses on the Strickland Property
Ulah Battery Site (Strickland Property)
South of Asheboro, NC**

PARAMETER	UNITS	DATE	Soil Analyses for Total Metals				Total Metals	TCLP Only
			Strickland 76296 UBS-01	Strickland 76297 UBS-01 A	Strickland 76298 UBS-02	Caviness 76299 UBS - 03	IHSB SRGs PRSG Mg/Kg	IHSB SRGs Protect GW Mg/Kg
Silver (AG)	mg/kg	5/20/93	U - 4	U - 4	U - 2	U - 4	780	3.4
Arsenic (As)	mg/kg	5/20/93	U - 12	U - 12	U - 8	U - 12	4.4	5.8
Boron	mg/kg	5/20/93	NA	NA	NA	NA	3,100	45
Barium	mg/kg	5/20/93	61	52	160	36	3,100.0	580.0
Beryllium	mg/kg	5/20/93	U - 2	U - 2	U - 1	U - 2	31	NS
Cadmium	mg/kg	5/20/93	U - 2	U - 2	U - 1	U - 2	14	3
(Naturally Occurring) Cobalt	mg/kg	5/20/93	7.6	7.1	6.6	6.1	4.7	NS
Chromium	mg/kg	5/20/93	40	39	24	64	23,000	36,000
Copper	mg/kg	5/20/93	30	35	27	48	630	700
Molybdenum	mg/kg	5/20/93	U - 4	U - 4	U - 6	U - 4	78.0	NS
Nickel	mg/kg	5/20/93	U - 8	U - 8	U - 8	U - 8	760.0	130
Lead	mg/kg	5/20/93	80	63	130	29	400.0	270
Antimony	mg/kg	5/20/93	U - 12	U - 12	U - 6	U - 12	6.3	NS
Selenium	mg/kg	5/20/93	U - 16	U - 16	U - 8	U - 16	7.8	2.1
Tin	mg/kg	5/20/93	U - 10	U - 10	6.6	U - 10	9,400	NS
Strontium	mg/kg	5/20/93	6	4	20	U - 4	9,400	NS
Tellurium	mg/kg	5/20/93	U - 20	U - 20	U - 10	U - 20	NS	NS
Titanium	mg/kg	5/20/93	340	370	180	340	28,000	NS
Thallium	mg/kg	5/20/93	U - 40	U - 40	U - 20	U - 40	NS	NS
(Naturally Occurring) Vanadium	mg/kg	5/20/93	140	170	62	160	79.0	NS
Yttrium	mg/kg	5/20/93	4.1	5.0	8.1	4.3	NS	NS
Zinc	mg/kg	5/20/93	64	55	76	24	4,700	1,200
Zirconium	mg/kg	5/20/93	NA	NA	NA	NA	NS	NS
Mercury	mg/kg	5/20/93	0.11	0.12	U - 0.10	0.06	1.1	NS
Aluminum	mg/kg	5/20/93	18,000	21,000	19,000	24,000	15,000.0	NS
(Naturally Occurring) Manganese	mg/kg	5/20/93	490	530	1,100	330	370.0	65
Calcium	mg/kg	5/20/93	610	250	2,100	430	NS	NS
Magnesium	mg/kg	5/20/93	520	450	670	570	NS	NS
(Naturally Occurring) Iron	mg/kg	5/20/93	42,000	50,000	24,000	58,000	11,000	150
Sodium	mg/kg	5/20/93	U - 400	U - 400	U - 200	U - 400	NS	NS
Potassium	mg/kg	5/20/93	U - 800	U - 800	730.0	U - 800	NS	NS
Moisture	Percent	5/20/93	28%	23%	20%	16%		

NS = No Standard

U - 8 = Undetected at 8 Mg

Highlighted Over SRGs

U.S. ENVIRONMENTAL PROTECTION AGENCY
REGION IV, ATHENS, GEORGIA

MEMORANDUM

JUL 27 1993

SUBJECT: Ulah Battery Site, Emergency Sampling Investigation,
Ashboro, North Carolina
ESD Project No. 93-0393

FROM: Charles Till, P.G.
Hazardous Waste Section
Environmental Compliance Branch
Environmental Services Division *WRS for*

TO: Mary Jo. Penick
Removal Management Section
Emergency Response & Removal Branch
Waste Management Division

THRU: William R. Bokey, Chief
Hazardous Waste Section
Environmental Compliance Branch
Environmental Services Division *William R. Bokey*

Attached is the Emergency Sampling Investigation Report on the Ulah Battery Site. Included with the report are the analytical data sheets which are attached as Appendix A. If you have any questions, please call me at (706) 546-3171.

Attachments:

cc: Bokey/Hall

EMERGENCY SAMPLING INVESTIGATION
ULAH BATTERY SITE
ASHBORO, NORTH CAROLINA
APRIL 1993

INTRODUCTION

A sampling investigation was conducted at the Ulah Battery Site in Ashboro, North Carolina during the week of April 27, 1993, by personnel from the US-EPA, Region IV Environmental Services Division. The study was requested by Ms. Penick (ERRB) to determine the lead contamination in the residential area adjacent to the Site for possible removal action. Charles Till, Mike Singletary, and Gerald Foree were the field sampling team for ESD. Charles Till was the ESD project leader. Ms. Penick was present and assisted the ESD sampling team during the investigation.

The Ulah Battery Site is in a residential area on Dinah Road and is composed of several large battery piles (consisting mostly of battery casings) located on the Hoskins property and the Coble property. The site has had partial removal operations performed by the State of North Carolina on the Hammond property, but nothing has been done on the two existing battery piles. The sampling locations were situated in areas along both sides of Dinah Road up gradient and downgradient of the battery piles. Samples collected were analyzed at the EPA laboratory in Athens, Georgia for lead and total metals. However, only lead results will be discussed in this report. All of the analytical data sheets will be attached as Appendix A.

DISCUSSION

During the sampling investigation, 29 soil and sediment, and 2 surface water samples were collected. The samples were collected along Dinah Road from front yards, the drainage ditches on both sides of the road, the two battery piles, and from the unnamed stream downgradient of the battery pile on the Coble property. Refer to Figure 1 for sampling locations and TABLE 1 for the lead results.

The samples numbered UBS-01 through UBS-22 were collected along Dinah Road and the samples numbered UBS-23 through UBS-30 were collected around the two battery piles. Samples UBW-29 and UBW-30 were surface water samples collected from the unnamed stream down gradient of the battery pile in the woods on the Coble property.

UBS-01 thru UBS-22

UBS-23 thru UBS-30

UBW-29, UBW-30

The soil samples collected along Dinah Road were collected in the front yards from 0-3 inches. The sediment samples collected along Dinah Road were from the drainage ditches on both sides of the road.

The highest concentration of lead detected in the soil samples collected from the yards was 5,900 mg/kg in sample number UBS-10. This sample was collected in a field adjacent to the Eubanks mobile home. Samples collected from the two drainage ditches contained lead ranging from 68 mg/kg to 3,000 mg/kg with the highest concentrations in the samples collected from the ditch immediately adjacent to the battery pile on the Hoskins property.

The soil samples collected around the battery pile on the Hoskins property were a series of composite samples that contained lead at concentrations ranging from 570 mg/kg to 270,000 mg/kg. Composite soil samples collected down gradient from the battery pile in the woods on the Coble property contained lead at concentrations ranging from 950 to 1900 mg/kg. The two surface water samples, collected from the unnamed stream located downgradient of the battery pile on the Coble property, did not contain detectable concentrations of lead. The two sediment samples collected from this stream contained lead at concentrations of 13 and 15 mg/kg.

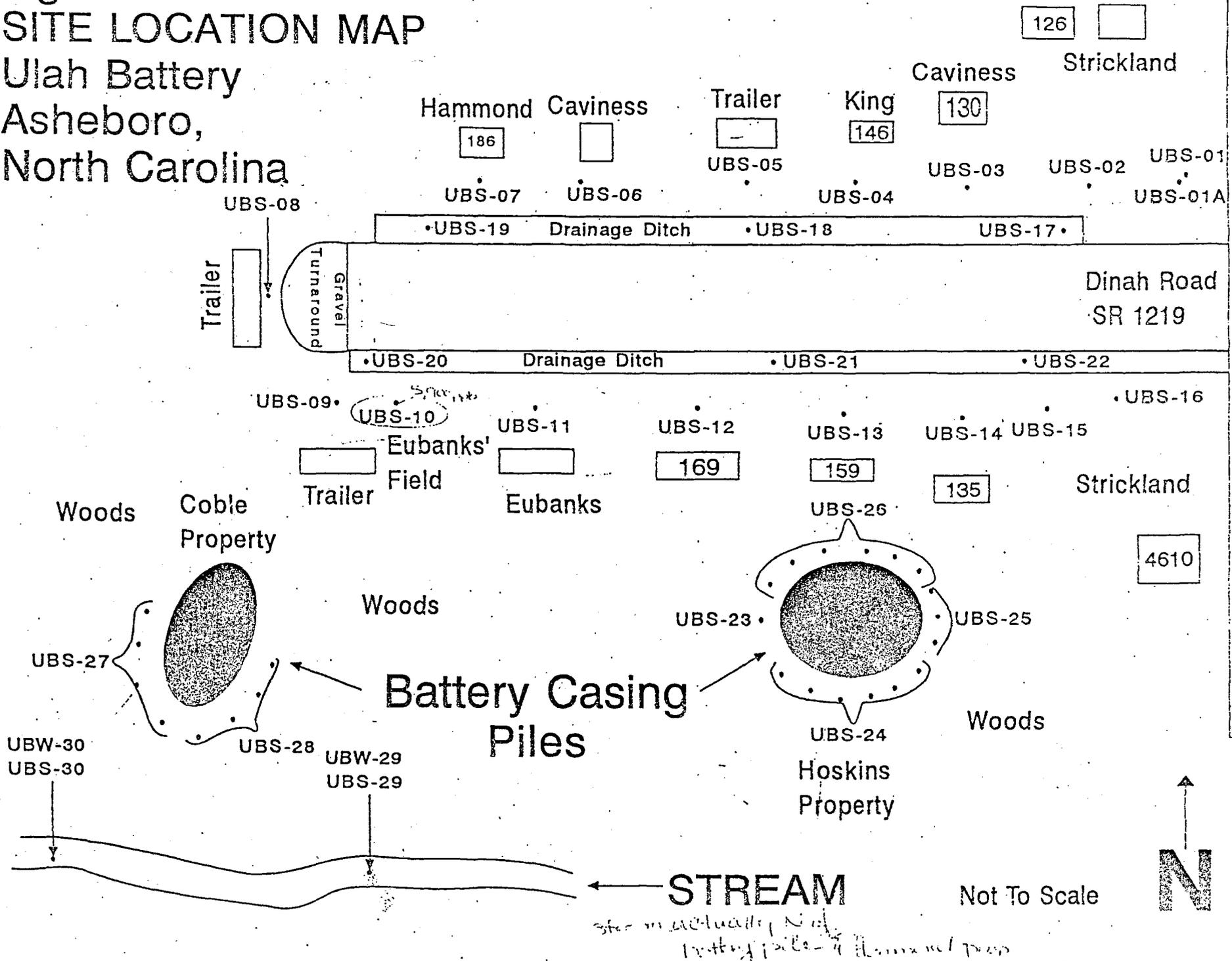
The data results indicate that lead is migrating from the battery piles via surface runoff to the adjacent areas which includes the residential area along Dinah Road and the surrounding woods, and the downgradient unnamed stream. Removal of the two battery piles would possibly eliminate the lead source and reduce the offsite lead migration.

APPENDIX A

TABLE 1
ANALYTICAL RESULTS (LEAD)
ULAH BATTERY SITE
ASHBORO, NORTH CAROLINA
APRIL, 1993

SAMPLE NUMBER (Soil-From Yards Along Dinah Rd.)	LEAD (mg/kg)
UBS-01 Corner of Dinah Rd. & US 220	80
UBS-01A (Duplicate)	63
UBS-02 Strickland Prop.	130
UBS-03 Caviness Prop.	29
UBS-04 King Prop.	84
UBS-05 Trailer next to King House	33
UBS-06 Caviness House	400
UBS-07 Hammond Prop.	34
UBS-08 Trailer At End Of Dinah Rd.	37
UBS-09 Trailer At End Of Dinah Rd. (Left Side)	24
UBS-10 Field Adjacent To Eubanks Trailer	5,900
UBS-11 Eubanks Trailer	290
UBS-12 169 Dinah Rd.	53
UBS-13 159 Dinah Rd.	230
UBS-14 135 Dinah Rd.	450
UBS-15 Field Next To 135 Dinah Rd.	140
UBS-16 4610 US 220 & Dinah Rd.	120
 (Sediment-From Ditches)	
UBS-17 Ditch At Culvert Of 130 Dinah Rd.	68
UBS-18 Ditch At Culvert Of Yard Next To 146 Dinah Rd.	270
UBS-19 Ditch At W. Prop. Line Of 186 Dinah Rd.	1,200
UBS-20 Ditch At End Of Dinah On Left Side	2,200
UBS-21 Ditch At Upper End Of 169 Dinah	360
UBS-22 Ditch At Upper End Of 135 Dinah	3,000
 (Soil-From Battery Pile-Hoskins Prop.)	
UBS-23 Downgradient Side (West) Of Battery Pile	29,000
UBS-24 Left Side (South) Of Battery Pile	570
UBS-25 Upper Side (East) Of Battery Pile	33,000
UBS-26 Right Side (North) Of Battery Pile	270,000
 (Soil-From Battery Pile-Coble Prop.)	
UBS-27 Left Lower Side (SW) Of Battery Pile	950
UBS-28 Right Lower Side (SE) Of Battery Pile	1900
 (Surface Water-From Unnamed Stream-Coble Prop.)	
UBW-29 (Upgradient)	00
UBW-30 (Downgradient)	00
 (Sediment-From Unnamed Stream-Coble Prop.)	
UBS-29 (Upgradient)	13
UBS-30 (Downgradient)	15

Figure 1
 SITE LOCATION MAP
 Ulah Battery
 Asheboro,
 North Carolina



SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

05/20/93

METALS DATA REPORT

** PROJECT NO. 93-0393 SAMPLE NO. 76296 SAMPLE TYPE: SOIL PROG ELEM: SSF COLLECTED BY: K BROWN **
** SOURCE: ULAH BATTERY CITY: ASHBORO ST: NC **
** STATION ID: UBS-01 UPGRAD CORNER OF US 220 AND RD 1219 COLLECTION START: 04/27/93 0835 STOP: 00/00/00 **
**

MG/KG
4.0U SILVER
12U ARSENIC
NA BORON
61 BARIUM
2.0U BERYLLIUM
2.0U CADMIUM
7.6 COBALT
40 CHROMIUM
30 COPPER
4.0U MOLYBDENUM
8.0U NICKEL
80 LEAD
12U ANTIMONY
16U SELENIUM
10U TIN
6.2 STRONTIUM
20U TELLURIUM
340 TITANIUM
40U THALLIUM
140 VANADIUM
4.1 YTRIUM
64 ZINC
NA ZIRCONIUM
0.11 MERCURY
18000 ALUMINUM
490 MANGANESE

ANALYTICAL RESULTS

MG/KG
610 CALCIUM
520 MAGNESIUM
42000 IRON
400U SODIUM
800U POTASSIUM
28 PERCENT MOISTURE

ANALYTICAL RESULTS

REMARKS

REMARKS

FOOTNOTES

*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

05/20/93

METALS DATA REPORT

 ** PROJECT NO. 93-0393 SAMPLE NO. 76297 SAMPLE TYPE: SOIL PROG ELEM: SSF COLLECTED BY: K BROWN **
 ** SOURCE: ULAH BATTERY CITY: ASHBORO ST: NC **
 ** STATION ID: UBS-01A UPGRAD CORNER OF US 220 AND RD 1219 COLLECTION START: 04/27/93 0840 STOP: 00/00/00 **
 **

MG/KG	ANALYTICAL RESULTS	MG/KG	ANALYTICAL RESULTS
4.0U	SILVER	250	CALCIUM
12U	ARSENIC	450	MAGNESIUM
NA	BORON	50000	IRON
52	BARIUM	400U	SODIUM
2.0U	BERYLLIUM	800U	POTASSIUM
2.0U	CADMIUM	23	PERCENT MOISTURE
7.1	COBALT		
39	CHROMIUM		
35	COPPER		
4.0U	MOLYBDENUM		
8.0U	NICKEL		
63	LEAD		
12U	ANTIMONY		
16U	SELENIUM		
10U	TIN		
4.0U	STRONTIUM		
20U	TELLURIUM		
370	TITANIUM		
40U	THALLIUM		
170	VANADIUM		
5.0	YTRIUM		
55	ZINC		
NA	ZIRCONIUM		
0.12	MERCURY		
21000	ALUMINUM		
530	MANGANESE		

REMARKS

REMARKS

FOOTNOTES

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 *K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
 *U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

05/20/93

METALS DATA REPORT

 ** PROJECT NO. 93-0393 SAMPLE NO. 76298 SAMPLE TYPE: SOIL PROG ELEM: SSF COLLECTED BY: K BROWN **
 ** SOURCE: ULAH BATTERY CITY: ASHBORO ST: NC **
 ** STATION ID: UBS-02 STRICKLAND PROPERTY ADJ TO STREET COLLECTION START: 04/27/93 0900 STOP: 00/00/00 **

MG/KG
 2.0U SILVER
 8.0U ARSENIC
 NA BORON
 160 BARIUM
 1.0U BERYLLIUM
 1.0U CADMIUM
 6.6 COBALT
 24 CHROMIUM
 27 COPPER
 2.0U MOLYBDENUM
 7.6 NICKEL
 130 LEAD
 6.0U ANTIMONY
 8.0U SELENIUM
 6.6 TIN
 20 STRONTIUM
 10U TELLURIUM
 180 TITANIUM
 20U THALLIUM
 62 VANADIUM
 8.1 YTTRIUM
 76 ZINC
 NA ZIRCONIUM
 0.10U MERCURY
 19000 ALUMINUM
 1100 MANGANESE

ANALYTICAL RESULTS

MG/KG
 2100 CALCIUM
 670 MAGNESIUM
 24000 IRON
 200U SODIUM
 730 POTASSIUM
 20 PERCENT MOISTURE

ANALYTICAL RESULTS

REMARKS

REMARKS

FOOTNOTES

*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
 *K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
 *U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

05/20/93

METALS DATA REPORT.

** PROJECT NO. 93-0393 SAMPLE NO. 76299 SAMPLE TYPE: SOIL PROG ELEM: SSF COLLECTED BY: K BROWN **
** SOURCE: ULAH BATTERY CITY: ASHBORO ST: NC **
** STATION ID: USB-03 CAVINESS PROP ADJ TO STREET COLLECTION START: 04/27/93 0910 STOP: 00/00/00 **
**

MG/KG	ANALYTICAL RESULTS	MG/KG	ANALYTICAL RESULTS
4.0U	SILVER	430	CALCIUM
12U	ARSENIC	570	MAGNESIUM
NA	BORON	58000	IRON
36	BARIUM	400U	SODIUM
2.0U	BERYLLIUM	800U	POTASSIUM
2.0U	CADMIUM	16	PERCENT MOISTURE
6.1	COBALT		
64	CHROMIUM		
48	COPPER		
4.0U	MOLYBDENUM		
8.0U	NICKEL		
29	LEAD		
12U	ANTIMONY		
16U	SELENIUM		
10U	TIN		
4.0U	STRONTIUM		
20U	TELLURIUM		
340	TITANIUM		
40U	THALLIUM		
160	VANADIUM		
4.3	YTTRIUM		
24	ZINC		
NA	ZIRCONIUM		
0.06	MERCURY		
24000	ALUMINUM		
330	MANGANESE		

REMARKS

REMARKS

FOOTNOTES
*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.

Attachment H



1101 NOWELL ROAD
 RALEIGH, NORTH CAROLINA 27607
 TEL.: (919) 873-1060 FAX.: (919) 873-1074

FORMER DISPOSAL AREAS
 ULAH BATTERY LEAD RECLAIMING SITE
 ASHEBORO, RANDOLPH COUNTY
 NORTH CAROLINA

FIGURE:
 2

PROJECT NUMBER
1524.09A3.NCDW

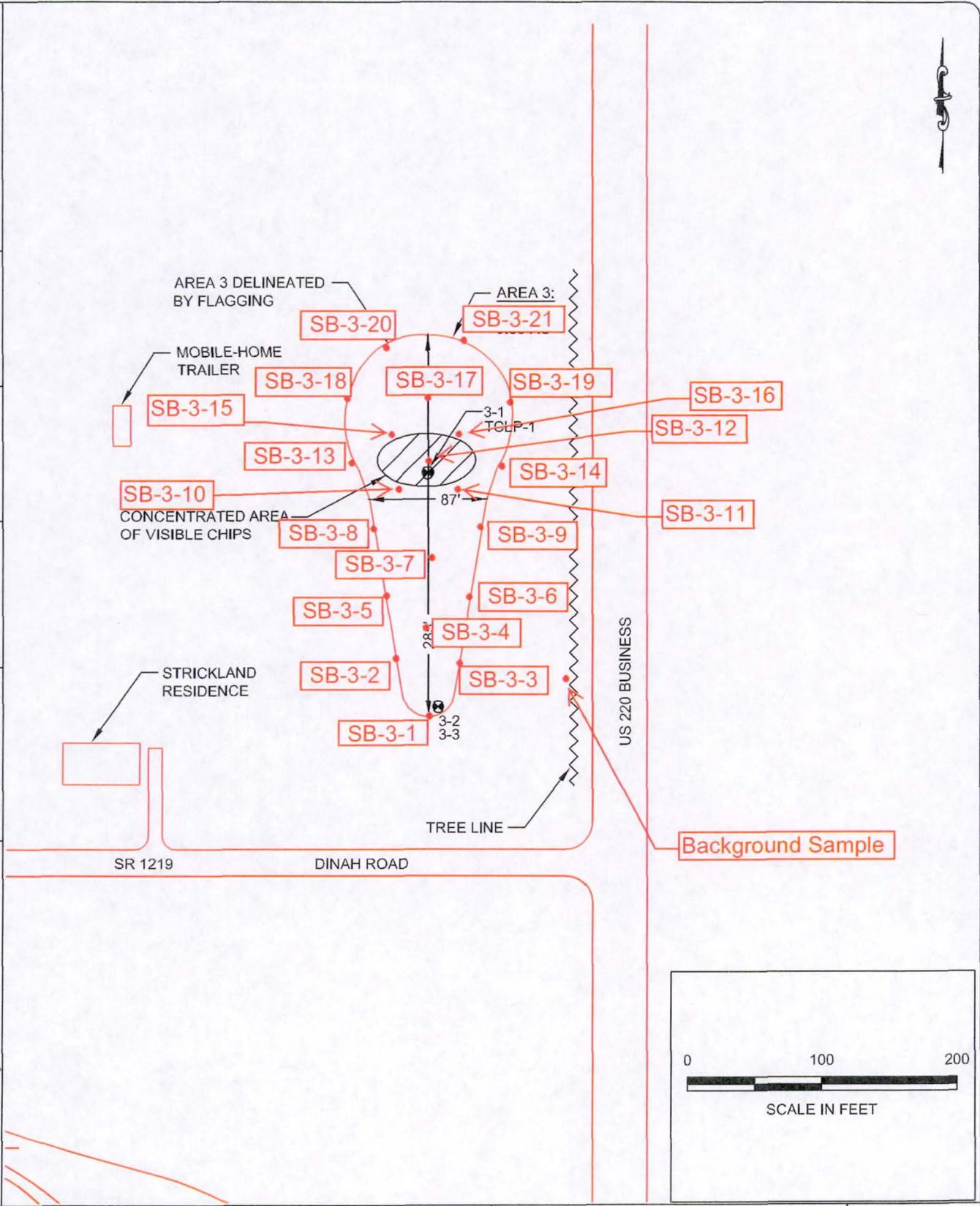
DRAFTER
PL

CHECKED BY
TL

PROJECT MANAGER
TL

DATE
5/28/09

FILE
Basemap.dwg



Solutions-IES
Industrial & Environmental Services
1101 NOWELL ROAD
RALEIGH, NORTH CAROLINA 27607
TEL.: (919) 873-1060 FAX.: (919) 873-1074

APPROXIMATE SAMPLE LOCATIONS IN AREA 3
ULAH BATTERY LEAD RECLAIMING SITE
ASHEBORO, RANDOLPH COUNTY
NORTH CAROLINA

FIGURE:

4

Area 3 - Strickland Property Sampling Plan
Ulah Batery Site - Asheboro, NC

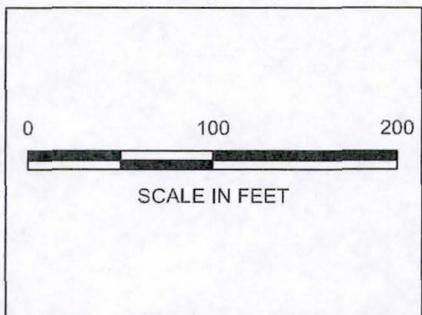
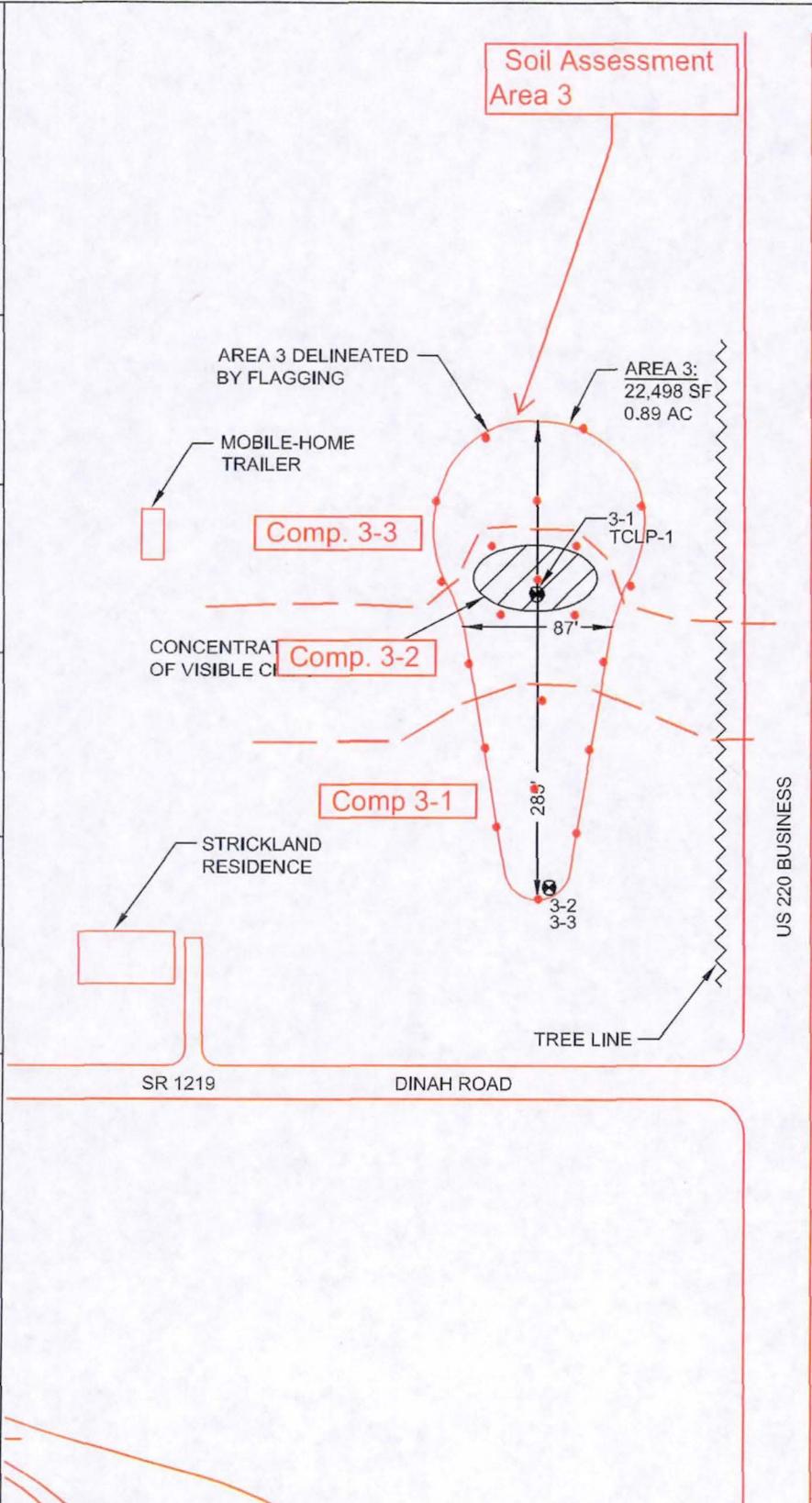
Soil Sample Number	Sample Depth (inches)	Total Lead (mg/kg)	TCLP Lead (mg/kg)	IHSB SRGs	IHSB SRGs
				Totals	TCLPs
SB-3-1	4-6 "	yes	yes	270	< 5
	10-12"	yes	no		
SB-3-2	4-6 "	yes	yes		
	10-12"	yes	no		
SB-3-3	4-6 "	yes	yes		
	10-12"	yes	no		
SB-3-4	4-6 "	yes	yes		
	10-12"	yes	no		
SB-3-5	4-6 "	yes	yes	270	< 5
	10-12"	yes	no		
SB-3-6	4-6 "	yes	yes		
	10-12"	yes	no		
SB-3-7	4-6 "	yes	yes		
	10-12"	yes	no		
SB-3-8	4-6 "	yes	yes		
	10-12"	yes	no		
SB-3-9	4-6 "	yes	yes	270	< 5
	10-12"	yes	no		
SB-3-10 central area	4-6 "	yes	yes		
	10-12"	yes	yes		
SB-3-11 central area	16-18"	yes	no		
	4-6 "	yes	yes		
	10-12"	yes	yes		
SB-3-12 central area	16-18"	yes	no		
	4-6 "	yes	yes		
	10-12"	yes	yes		
SB-3-13	16-18"	yes	no	270	< 5
	4-6 "	yes	yes		
	10-12"	yes	yes		
SB-3-14	16-18"	yes	no		
	4-6 "	yes	yes		
	10-12"	yes	yes		
SB-3-15 central area	16-18"	yes	no		
	4-6 "	yes	yes		
	10-12"	yes	yes		
SB-3-16 central area	16-18"	yes	no		
	4-6 "	yes	yes		
	10-12"	yes	yes		
SB-3-17	16-18"	yes	no	270	< 5
	4-6 "	yes	yes		
	10-12"	yes	no		
SB-3-18	4-6 "	yes	yes		
	10-12"	yes	no		
SB-3-19	4-6 "	yes	yes		
	10-12"	yes	no		
SB-3-20	4-6 "	yes	yes		
	10-12"	yes	no		
SB-3-21	4-6 "	yes	yes		
	10-12"	yes	no		
Background	4-6 "	yes	no		
	10-12"	yes	no		

Total Metals	46	25	TCLP
---------------------	-----------	-----------	-------------

Comp. 3-1	4-6 "	yes	yes	270	< 5
	10-12"	yes	yes		
Comp 3-2	4-6 "	yes	yes		
	10-12"	yes	yes		
Comp 3-3	4-6 "	yes	yes		
	10-12"	yes	yes		

Total Metals	6	6	TCLP
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PROJECT NUMBER 1524.09A3.NCDW
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 CHECKED BY TL
 PROJECT MANAGER TL
 DATE 5/28/09
 FILE Basemap.dwg



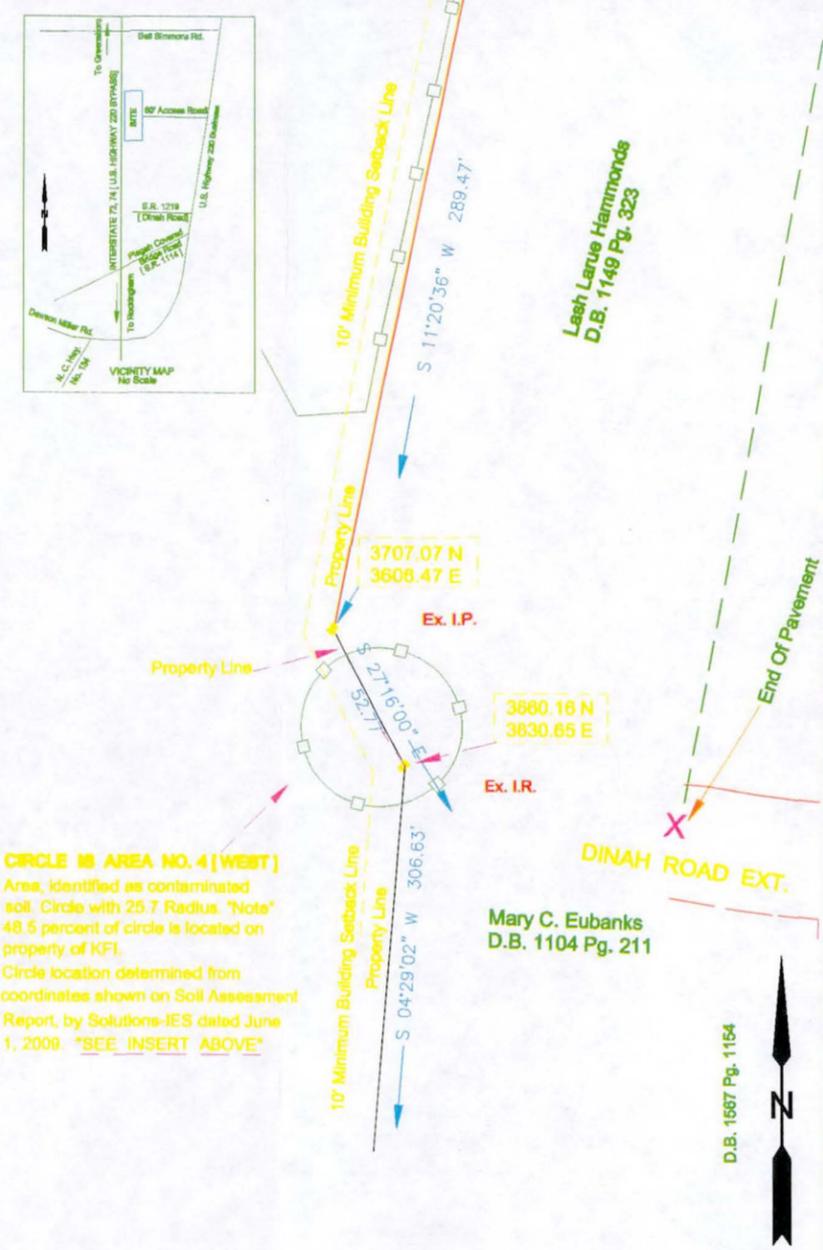
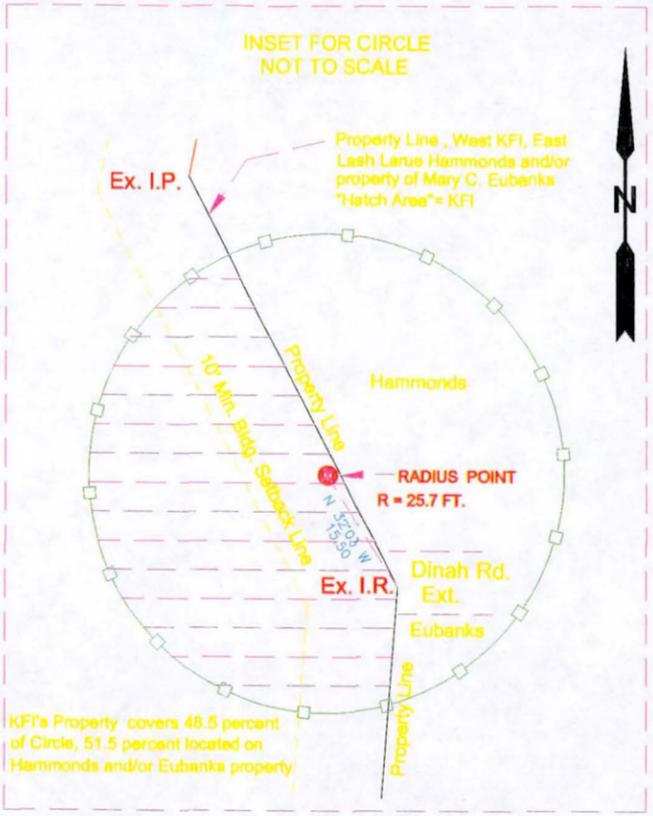
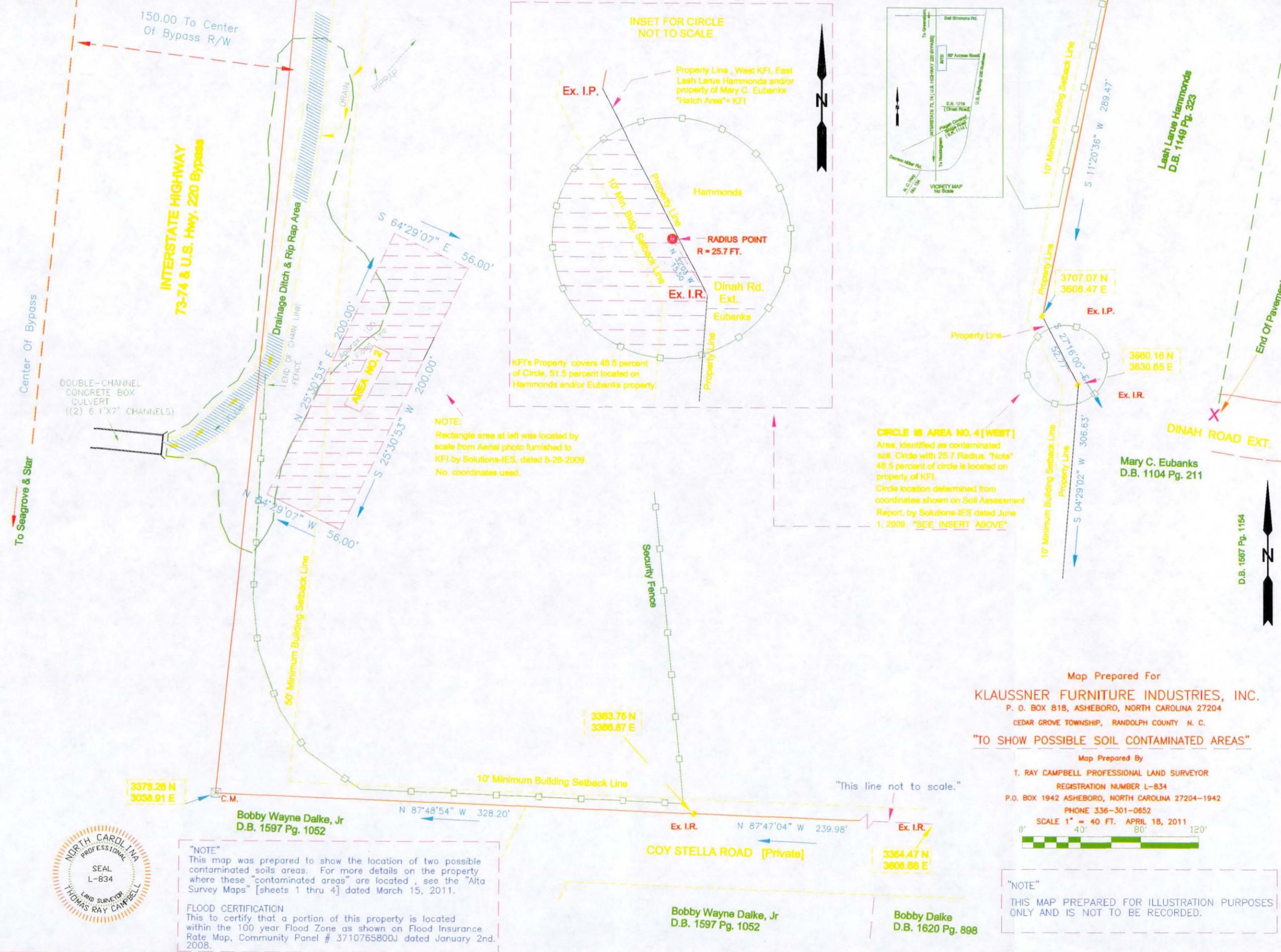
Solutions-IES
 Industrial & Environmental Services
 1101 NOWELL ROAD
 RALEIGH, NORTH CAROLINA 27607
 TEL.: (919) 873-1060 FAX.: (919) 873-1074

APPROXIMATE SAMPLE LOCATIONS IN AREA 3
 ULAH BATTERY LEAD RECLAIMING SITE
 ASHEBORO, RANDOLPH COUNTY
 NORTH CAROLINA

FIGURE:

4

Attachment I



NOTE:
 Rectangle area at left was located by scale from Aerial photo furnished to KFI by Solutions-IES, dated 5-28-2009. No. coordinates used.

CIRCLE IS AREA NO. 4 (WEST)
 Area, identified as contaminated soil. Circle with 25.7 Radius. "Note" 48.5 percent of circle is located on property of KFI. Circle location determined from coordinates shown on Soil Assessment Report, by Solutions-IES dated June 1, 2009. *SEE INSERT ABOVE*



"NOTE"
 This map was prepared to show the location of two possible contaminated soils areas. For more details on the property where these "contaminated areas" are located, see the "Alta Survey Maps" [sheets 1 thru 4] dated March 15, 2011.

FLOOD CERTIFICATION
 This to certify that a portion of this property is located within the 100 year Flood Zone as shown on Flood Insurance Rate Map, Community Panel # 3710765800J dated January 2nd, 2008.

Map Prepared For
KLAUSSNER FURNITURE INDUSTRIES, INC.
 P. O. BOX 818, ASHEBORO, NORTH CAROLINA 27204
 CEDAR GROVE TOWNSHIP, RANDOLPH COUNTY N. C.
"TO SHOW POSSIBLE SOIL CONTAMINATED AREAS"

Map Prepared By
T. RAY CAMPBELL PROFESSIONAL LAND SURVEYOR
 REGISTRATION NUMBER L-834
 P.O. BOX 1942 ASHEBORO, NORTH CAROLINA 27204-1942
 PHONE 336-301-0652
 SCALE 1" = 40 FT. APRIL 18, 2011

"NOTE"
 THIS MAP PREPARED FOR ILLUSTRATION PURPOSES ONLY AND IS NOT TO BE RECORDED.

To Seagrove & Star

150.00 To Center Of Bypass R/W

INTERSTATE HIGHWAY 73-74 & U.S. Hwy. 220 Bypass

Bobby Wayne Dalke, Jr
 D.B. 1597 Pg. 1052

Bobby Wayne Dalke, Jr
 D.B. 1597 Pg. 1052

Bobby Dalke
 D.B. 1620 Pg. 898

Mary C. Eubanks
 D.B. 1104 Pg. 211

Lash Larue Hammonds
 D.B. 1149 Pg. 323

D.B. 1687 Pg. 1164

3383.75 N
 3386.87 E

3378.28 N
 3038.91 E

3354.47 N
 3606.88 E

3680.16 N
 3630.65 E

3707.07 N
 3606.47 E

N 87°48'54" W 328.20'

N 87°47'04" W 239.98'

S 27°16'00" E 52.77'

S 04°29'02" W 306.65'

S 11°20'36" W 289.47'

S 64°29'07" E 56.00'

N 25°30'53" E 200.00'

S 25°30'53" W 200.00'

N 04°29'07" W 56.00'

COY STELLA ROAD [Private]

DINAH ROAD EXT.

Drainage Ditch & Rip Rap Area

DOUBLE-CHANNEL CONCRETE BOX CULVERT ((2) 6.1'X7' CHANNELS)

Security Fence

"This line not to scale."

KFI's Property covers 48.5 percent of Circle, 51.5 percent located on Hammonds and/or Eubanks property!

RADIUS POINT R = 25.7 FT.

INSET FOR CIRCLE NOT TO SCALE

Property Line, West KFI, East Lash Larue Hammonds and/or property of Mary C. Eubanks "Hatch Area" = KFI

Hammonds

Dinah Rd. Ext. Eubanks

Property Line

