PHASE II REMOVAL SITE EVALUATION (RSE) FOR THE CHERRYVALE RESIDENTIAL YARDS SITE, CHERRYVALE, MONTGOMERY COUNTY, KANSAS
KDHE I.D. C306371097

KANSAS DEPARTMENT OF HEALTH AND ENVIRONMENT (KDHE)
BUREAU OF ENVIRONMENTAL REMEDIATION (BER)
REMEDIAL SECTION, SITE ASSESSMENT UNIT
1000 S.W. JACKSON
TOPEKA, KANSAS 66612

BER SCANNED
OCT 31 2012

REMOVAL SITE EVALUATION (RSE) FOR THE CHERRYVALE RESIDENTIAL YARDS SITE, CHERRYVALE, MONTGOMERY COUNTY, KANSAS KDHE I.D. C306371097

March, 2002

SITE RECONNAISSANCE AND FIELD WORK BY:

Randolph L. Brown, Environmental Geologist, Project Manager and Radiation Safety Officer
Peter Haxton, Environmental Technician and Health and Safety Officer
Travis Kogl, Quality Assurance Officer

CHERRYVALE RESIDENTIAL YARDS SITE
PHASE II REMOVAL SITE EVALUATION (RSE)
TABLE OF CONTENTS

SECTION 1.0: INTRODUCTION 1
- 1.1 Purpose 1
- 1.2 Site Description 1
- 1.3 Site History 1
- 1.4 Previous Investigations 2

SECTION 2.0: SITE GEOLOGY AND SOILS 3
- 2.1 Site Soils Description 3
- 2.2 Site Geology and Ground Water Pathway 3
- 2.3 Site Hydrology and Surface Water Pathway 4

SECTION 3.0: RSE FIELD ACTIVITIES 4
- 3.1 Additional Residential Yard Sampling 4

SECTION 4.0: RSE ANALYTICAL RESULTS 5
- 4.1 Additional Residential Yard Sampling Results 5
- 4.2 Data Validation and Quality Control (QC) 5

SECTION 5.0: TARGETS AND SITE RISKS 6

SECTION 6.0: RSE SUMMARY AND CONCLUSIONS 7
- 6.1 Summary 7
- 6.2 Removal Response Considerations 7
- 6.3 Remedial Response Considerations 8
- 6.4 Enforcement Considerations 8
- 6.5 Conclusions 8

SECTION 7.0: REFERENCES 8

ATTACHMENTS:

ATTACHMENT A: SITE FIGURES AND TABLES
- Figure 1: Site Location
- Figure 2: X-ray Fluorescence Sample Results Summary
- Figure 3: Laboratory Sample Results Summary
- Table 1: Summary of *In-Situ* XRF Sample Results
- Table 2: Laboratory Sample Results
- Tables 3(a) and 3(b): XRF Quality Control Parameters Summary

ATTACHMENT B: PHOTOGRAPHIC DOCUMENTATION

ATTACHMENT C: LABORATORY ANALYTICAL DATA

ATTACHMENT D: FIELD XRF ANALYTICAL SHEETS

ATTACHMENT E: RESIDENTIAL YARD SAMPLING FORMS

SECTION 1.0: INTRODUCTION

1.1 Purpose

This Removal Site Evaluation (RSE) was performed under the authority of the Comprehensive Environmental Response, Compensation and Liability Act of 1980 (CERCLA) as amended by the Superfund Amendments and Reauthorization Act (SARA) of 1986, and consistent with the National Oil and Hazardous Substances Contingency Plan (NCP) 40 CFR § 300. The RSE was performed by the KDHE Bureau of Environmental Remediation (BER) as part of the cooperative agreement with EPA to conduct integrated assessment activities for the federal Fiscal Year (FY) 2000. The purpose of this RSE is to evaluate additional residential yards for the presence of heavy metal contaminants directly adjacent to the National Zinc site identified in the KDHE RSE of March, 2001, and to identify potential conditions eligible for removal response and/or further removal site evaluation consistent with §§ 300.410-300.415 of the NCP in these additional areas.

The RSE gathered additional information to support consideration of removal response actions consistent with § 300.300-310 and § 300.410-300.415 of the NCP. The RSE investigation included a site visit and sampling of private yards directly adjacent to the National Zinc site in Cherryvale, Montgomery County, Kansas. The National Zinc site has the EPA identification number (CERCLIS) of **KSD980406698**. This Phase II RSE is focused on the additional areas identified in the KDHE RSE of March, 2001 and will not duplicate general site information included in either the RSE or the Expanded Site Inspection (ESI) for the National Zinc site.

1.2 Site Description

The RSE sampling area included the residential yards within an additional two-(2) block area at the southern edge of the National Zinc site. The KDHE initial RSE did not determine the full extent of lead, cadmium and zinc contamination of surficial soils in residential areas at the southern edge of the National Zinc site. The primary purpose of this RSE was thus intended therefore to conduct an initial screening of the residential yards in this area, namely First and Second Streets bounded by Coyle and Catherine Streets on the east and west, respectively. The National Zinc site is located at the northwestern city limits of Cherryvale, Montgomery County, Kansas (see Figure 1) and is located along U.S. Highway 169. Cherryvale is a rural community with some light industry. The population of Cherryvale as of the last census was 2,464 persons (Reference 2). The geographic coordinates of the site are 39° 42' 30.0" North latitude and 96° 25' 00" West longitude. The site is located in Section 8 in Township 32 South, Range 17 East (Reference 2). Figure 2 illustrates the site location from aerial photographs.

1.3 Site History

The National Zinc site consists of approximately 350 acres containing the former National Zinc smelter facility on the northern edge of Cherryvale, Kansas. A detailed site history is included in

the ESI and the initial KDHE RSE reports and will not be duplicated in this report. Historical review from Sanborn Fire Insurance maps and historical archive information available during the BTA indicates that the Edgar Zinc Company began construction of a primary lead and zinc smelter at the site in 1898. The facility initially was constructed with 1,800 retorts and 3 furnace buildings. By 1908 the smelter facility had 4,800 retorts and 24 furnaces. The 1928 Sanborn Map (the most recent available) also indicates the facility had four (4) massive ore roasters and 24 furnaces in operation, consistent with the 1908 configuration. This facility was recognized as the largest zinc smelter in the world until World War I. The facility operated as the Edgar Zinc Company until sometime after 1928, when it was reorganized as the National Zinc Company (Reference 2). Production appears to have declined through the 1930s when most active operations ceased.
The National Zinc smelter facility permanently terminated operations on December 24, 1976.

The residential areas evaluated for the RSE were not part of the Edgar Zinc works and facility itself. According to historical Sanborn maps this area contained residential areas, the Edgar Chapel, the Cherryvale Butter and Cheese Factory and a hay and feed warehouse/store on Martin Street and residential areas south of Martin and Front Streets. Directly across Martin street to the north from the residential area was an ore store house, pattern storage and a "chemical laboratory" most likely performing assays on ore samples which was part of the Edgar Zinc/National Zinc facility and was owned by National Zinc. From a review of available property ownership information, National Zinc did not appear to own the land now containing the residential area.

1.4 Previous Investigations

Multiple residential yards sampled during the RSE indicated lead levels in excess of KDHE's Risk-Based Levels for Kansas (RSKs) of 400 mg/kg for lead. A four-point (four discrete locations) background sampling strategy was utilized to determine mean background concentrations for lead, cadmium, chromium and mercury. The following residences indicated lead above 400 mg/kg in residential yard samples: 511 and 619 Martin, 509, 513, 520, 524, 610, 617, 618, 620, and 621 Front Street. 11 residential yards sampled during the RSE were identified with lead contamination in excess of the KDHE residential RSK level of 400 mg/kg. The maximum laboratory detection for lead was 3,680 mg/kg at 618 Front # 2. The maximum XRF detection for lead (dried) was 2,760 at 618 Front # 1 (laboratory value of 3,190 mg/kg). The full extent of impacted yards to the source of the site was not identified during this RSE.

Cadmium was detected above its residential RSK of 39 mg/kg at 619 Martin # 5 (180 mg/kg), 618 Front #1 (41 mg/kg), 618 Front #2 (121 mg/kg) and in the alley south of Martin (Martin Alley #2) at 40.8 mg/kg. The data collected for the initial RSE indicated that elevated levels of cadmium and arsenic are only present above residential RSKs and 3X background concentrations coincident with lead levels identified in excess of 1,000 mg/kg. Toxicity Characteristic Leachate Procedure (TCLP) was performed on eight (8) samples for lead by EPA Method 1311. The maximum value

detected was 4.97 mg/l on sample 610 Front #1, which is below the 5.0 mg/l TCLP threshold for lead established in § 261.24 of RCRA.

SECTION 2.0: SITE GEOLOGY AND SOILS

2.1 Soils

The undisturbed areas of the site (primarily in the northeast half of the site) are typically underlain by the Kenoma series soils. The Kenoma soils are generally deep, moderately well drained, very slowly permeable soils on uplands, of 0 to 2 percent slopes. The surface layer (A horizon) typically consists of a dark grayish brown silt loam about 6-12 inches thick. The upper portion of the subsoil layer (B horizon) is typically 9 inches thick and consists of very dark grayish brown to grayish brown silty clay. The lower portion of the subsoil layer is typically 40 inches thick and consists of dark yellowish brown to dark brown to reddish brown silty clay. Typical depth of Kenoma soils averages 60 inches or greater. The southern edge of the site is also within the Dennis series, but the native soil profile for this series is very similar to the Kenoma series. No C horizon is recognized because of the generally deep (60 inches) thickness of these soil types.

The unified soil classification of the A horizon is CL to CL-ML to ML (18-29 % clay) with a plasticity index range of 3-18 and a liquid limit range of 24-40. The unified soil classification of the B horizon is CH (40-60 % clay) with a plasticity index range of 30-48 and a liquid limit range of 50-75. Available water content is high (0.10-0.24). Surface runoff is slow (0.2-0.06 in/hr) and shrink-swell potential is high, especially below 12 inches. Permeability generally ranges from 0.2 to 0.6 inches/hour (Reference 2).

2.2 Geology

The site is located in a broad, low-relief upland of the Osage Questas physiographic area of southeast Kansas. Bedrock of Pennsylvanian age is present at the base of the soil profile. During the installation of temporary monitoring wells during at the National Zinc BTA, bedrock was typically encountered between 14 feet (TW-1) and 3.5 feet (TW-8).

The bedrock units underlying the site are believed to be composed of sandstone and limestone of the Cherryvale Shale and Dennis Limestone Formations of the Kansas City Group. A yellowish to reddish-brown sandstone was typically encountered as the bedrock layer upon auger refusal. Ground water occurrence within the Cherryvale Shale and Dennis Formations is typically localized with very low (less than 3 gallons per minute) yields of generally poor quality. These bedrock units typically yield little to no water except in the shallow weathered zone near the upper bedrock surface. Oil field intrusion of brines in the site area from oil production fating back to the early 1900s has impacted shallow ground water quality regionally in this portion of Southeast Kansas (Reference 2).

Ground water occurrence in the site area is primarily restricted to unconsolidated alluvial deposits of the Verdigris River and Cherry Creek. The City of Cherryvale receives water from a surface intake on Big Hill Lake located approximately five (5) miles east of Cherryvale. Significant karst terrain does not exist in the site area given the sequential shale-sandstone-limestone stratigraphy of the bedrock units. The City of Cherryvale and Montgomery County Rural Water District # 12 supplies water to private residences surrounding the site.

2.3 Site Hydrology and Surface Water Pathway

Drainage from the site is to the unnamed tributary which converges with the drainage from the National Zinc site approximately 500 feet north of Martin Street at the western end of the Cherryvale Yards site to the north of the former Cherryvale Rodeo Grounds. This unnamed tributary converges with Drum Creek approximately 3/4 mile to the west of U.S. 169 highway. The surface water pathway with regards to the National Zinc site will be discussed in greater detail in the National Zinc ESI Report.

SECTION 3.0: RSE FIELD ACTIVITIES

The Phase II RSE field activities included: (1) a site visit to determine additional residential areas to be evaluated based on the initial RSE results; and (2) sampling of residential yards in the area of concern. KDHE's Niton 733 X-ray fluorescence unit (XRF) was utilized to field analyze surficial soil samples. The site-specific Quality Assurance Project Plan (QAPP) developed for the initial Phase I RSE was utilized and followed for all RSE activities.

3.1 Additional Residential Yard Sampling

During the Phase II RSE 37 additional residential yards were evaluated . XRF analysis was conducted *in-situ* by placing the Niton XRF on a "sled" or special *in-situ* sampling base, and analyzing the soil for a minimum of 30 source seconds (Ss) with KDHE's Niton Model 733 X-ray fluorescence (XRF) analyzer using the ^{109}Cd sealed radioactive source. The surface area of each sampling location was cleared of vegetation in order to analyze exposed soil. Each location was flagged in order to re-locate for confirmatory laboratory samples.

Laboratory samples were obtained by removing soil from 0-6" below ground surface at each sample location with a clean steel trowel and placing the sample in a prepared 4-oz glass sample jar and placed on ice. Samples were either submitted to KDHE's Division of Health and Environment Laboratory (DHEL) or Pace Analytical Services of Lenexa, Kansas for analysis by EPA Method 6010.

Trowels were decontaminated after each use by soaking in a deionized water and alcanox detergent solution, triple rinsing with deionized water and then drying with disposable paper towels prior to re-use. One rinsate sample was obtained from decontamination of sampling

equipment during the RSE. The rinsate sample was submitted to DHEL for RCRA metals analysis by EPA Method 6010. A total of 224 XRF field analyses and 35 confirmatory laboratory samples were analyzed for a total confirmatory rate of %.

SECTION 4.0: ANALYTICAL RESULTS

4.1 Additional Residential Yard Sample Results

XRF sample results are included in Figure 2, and laboratory sample results are included in Figure 3. The following residences indicated lead at or above 400 mg/kg in residential yard samples by XRF analysis: 500 W.1st; 506 W. 1st; 514 W. 1st, 532 W. 1st, 511 W.1st, 527 W.1st, 509 W.1st, Lindquist vacant residential lot on 1st, 606 W. 1st, 635 W. 1st, 630 W. 2nd, 534 W. 2nd, 524 W. 2nd, 516 W. 2nd, 529 W. 1st, 1st and School vacant lot, 638 W. 1st, 508 N. Liberty, 420 N. Liberty, 416 N. Liberty, 404 N. Liberty, 400 N. Liberty, and 5399 County Road 5050.

The maximum XRF value detected during the Phase II RSE screening was 1,729.6 mg/kg at 416 N. Liberty. This location also coincided with the maximum laboratory detection of 1,800 mg/kg for lead. No cadmium exceedences of the KDHE residential RSK level of 39 mg/kg were identified during the Phase II RSE. Arsenic exceedences of the KDHE residential RSK of 11 mg/kg except one at 12.0 mg/kg at 502 N. Liberty are coincident with XRF exceedences of 400 mg/kg. The 3X background concentration determined for the initial RSE and the ESI was 24.0 mg/kg. All arsenic exceedences above 3X background were coincident with XRF lead detections above 400 mg/kg.

4.2 Data Validation and Quality Control (QC) Sample Results

A linear regression was calculated for the XRF vs. laboratory lead data obtained at the Cherryvale Residential Yards site for Phase II since *in situ* analysis was utilized. A coefficient of correlation of $r^2 = 0.971$ was calculated for wet samples and a value of $r^2 = 0.732$ was calculated for lead analytical results. According to EPA Method 6200, a coefficient of correlation of $r^2 = 0.7$ to $r^2 = 0.9$ can be considered ***quantitative screening level data***. The coefficient of correlation for lead calculated for the Cherryvale Residential Yards site indicates that the XRF data obtained *in-situ* can be considered as quantitative screening level data, sufficient for removal site evaluation data needs consistent with OA2/OA3 level data criteria established in "Quality Assurance/Quality Control Guidance for Removal Activities", EPA 540/G-90/004 of April, 1990.

A total of 32 field duplicates were analyzed with the Niton XRF unit during the Phase II RSE. The average relative standard deviation (RSD) was calculated to be 5.96 % for all field duplicate analyses during the RSE. The average RSD for all duplicate field analyses was well within the EPA Method 6200 20 % RSD acceptable value. A total of 22 samples were analyzed during the Phase II RSE to determine the percent difference (PD) between the National Institute of Standards and Testing (NIST) certified lead standards and the Niton XRF analyzed value. The maximum

PD of 5.93 % and average PD of 2.83 % were calculated for the Phase II RSE NIST standard analyses. The acceptable PD proposed by EPA Method 6200 is also 20 %, and therefore the PD values measured are within EPA Method 6200 acceptance criteria. Since the inferential statistics for RSD and PD are within acceptance criteria for EPA Method 6200, all XRF data obtained during the Cherryvale Residential Yards RSE appear to be valid at a minimum of quantitative screening level data. No significant instrument or sampling QC problems were therefore identified during the Phase II RSE.

Laboratory data was validated consistent with KDHE's Quality Management Plan (QMP). Laboratory data was determined to be valid and all data met completeness criteria. Two (2) rinsate samples were collected during decontamination of steel trowels and submitted to the Division of Health and Environment Laboratories (DHEL) for analysis as an in-field QC sample. Lead, cadmium, and arsenic were not detected in the rinsate sample. Therefore no serious impact from cross-contamination of sampling equipment or compromise of QC parameters was identified from the RSE data.

SECTION 5.0: TARGETS AND IDENTIFIED SITE RISKS

The following residences indicated lead above 400 mg/kg in XRF screening of residential yard samples during the Phase II RSE:

West First Street Locations:
500 W.1st; 506 W. 1st , 509 W.1st, 511 W.1st, 514 W. 1st, 527 W.1st, 529 W. 1st, 532 W. 1st, Lindquist vacant residential lot on 1st, 606 W. 1st, 635 W. 1st, 1st and School vacant lot, 638 W. 1st.

West Second Street Locations:
516 W. 2nd, 524 W. 2nd, 534 W. 2nd, 630 W. 2nd.

North Liberty Street Locations:
400 N. Liberty, 404 N. Liberty, 416 N. Liberty, 420 N. Liberty, 508 N. Liberty.

Other Locations:
5399 County Road 5050

The Phase II RSE identified 23 additional residential yards or residential lots with lead contamination in excess of the KDHE residential RSK level of 400 mg/kg. Using the 1990 census value of 2.42 persons per occupied household/housing unit, a value of persons is calculated in excess of KDHE's residential RSK level for lead. Several of the residences were observed to have children either living at the residence or visiting daily. Since the site is a residential area, access is not limited to impacted yard areas.

SECTION 6.0: RSE SUMMARY AND CONCLUSIONS

6.1 Summary

The RSE field activities included: (1) a site visit; (2) collection of background samples, and (3) sampling of residential yards adjacent to the National Zinc site. KDHE's Niton 733 X-ray fluorescence unit (XRF) was utilized to field analyze surficial soil samples. Multiple heavy metals, especially lead, arsenic and cadmium were identified to be present in residential yards in excess of background and/or KDHE residential RSK levels. In addition, 23 additional residences indicated areas of impacted surficial soil in residential yards above KDHE's residential RSK level of 400 mg/kg. Based on information gathered during the RSE, eligible conditions exist for further removal response consistent with §§ 300.410-300.415 of the NCP. The specific conditions identified at the site consistent with § 300.415(b)(2) are:

(1) *Actual or potential exposure from oil releases or hazardous substances* exists at the site from elevated levels of primarily lead and cadmium from abandoned smelter operations. Private residential yards adjacent to the smelter works have been identified to be impacted with lead above residential RSKs (§ 300.415(b)(2)(i));

(2) Weather conditions that may cause hazardous substances or pollutants or contaminants to migrate or be released is present since continued release of metals to surface water, soil and sediment will occur unless wastes are stabilized or covered; (§ 300.415(b)(2)(v));

(3) No KDHE or other State mechanism is in place to address the wastes present at the site or impacted residential yards (§ 300.415(b)(2)(vii)); and

(4) Other factors include the easy access to the site with no access or security limitations to the smelter site or areas of impacted residential yards (§ 300.415(b)(2)(viii)). Approximately 2,500 persons live within one mile of the site. The site thus appears to qualify for further removal response actions at the site consistent with § 300.415 of the NCP considering the above factors from the NCP.

6.2 Removal Response Considerations

Removal response at the site should address impacted residential yards and areas of elevated lead levels along publically accessible areas of Front and Martin Streets. Potential response actions to impacted private yards include excavation or covering in those areas identified through this KDHE RSE Report. Maximum levels of lead detected at the site did not fail TCLP threshold criteria, and any removed soils should not need to be handled as potential RCRA characteristic hazardous waste (D008). High-volume (high-vol) air monitoring for heavy metal particulates should also be conducted before, during and after any response actions to assure transmission of heavy metals does not occur to nearby residents. Deeper soil sampling across the site after removal of surficial soil may be appropriate during removal response actions. Additional XRF

screening during removal response actions may also be appropriate to refine the extent of soil requiring removal.

6.3 Remedial Response Considerations

The Expanded Site Inspection (ESI) for the National Zinc site has been completed consistent with 300.420-300.425 of the NCP. The National Zinc site was re-evaluated by the Hazard Ranking System (HRS) at the conclusion of the ESI to determine its eligibility for inclusion on the National Priorities List (NPL). Preparation of the HRS package and proposed NPL listing are being deferred pending the outcome of negotiations between KDHE and the identified potentially responsible parties (PRPs). Response actions to residential yards should be consistent with the overall remedial actions for the National Zinc site.

6.4 Enforcement Considerations

A search of potentially responsible parties (PRPs) has been completed by KDHE and EPA Region VII. The identified PRPs, Salomon Smith Barney and U.S. Steel Corporation, are actively negotiating with KDHE for site-wide response actions. The HRS/NPL process will be deferred upon signature of a KDHE Consent Agreement by the identified PRPs.

6.5 Conclusions

Contamination in residential yards identified in this RSE appears to present a significant threat to human health and the environment from actual or potential releases or threat of release of hazardous substances, especially lead, cadmium and arsenic, to residents in the area of the site. Releases of heavy metals have been attributed to the National Zinc site located directly adjacent to the north of the residential area targeted for this RSE. Removal response actions at these additional private yards identified during this Phase II RSE are recommended consistent with those taken on the yards identified in the initial RSE.

SECTION 7.0: REFERENCES

1. U.S. Environmental Protection Agency, *Quality Assurance/Quality Control Guidance for Removal Activities*, EPA/540/G-90/004, 1990.

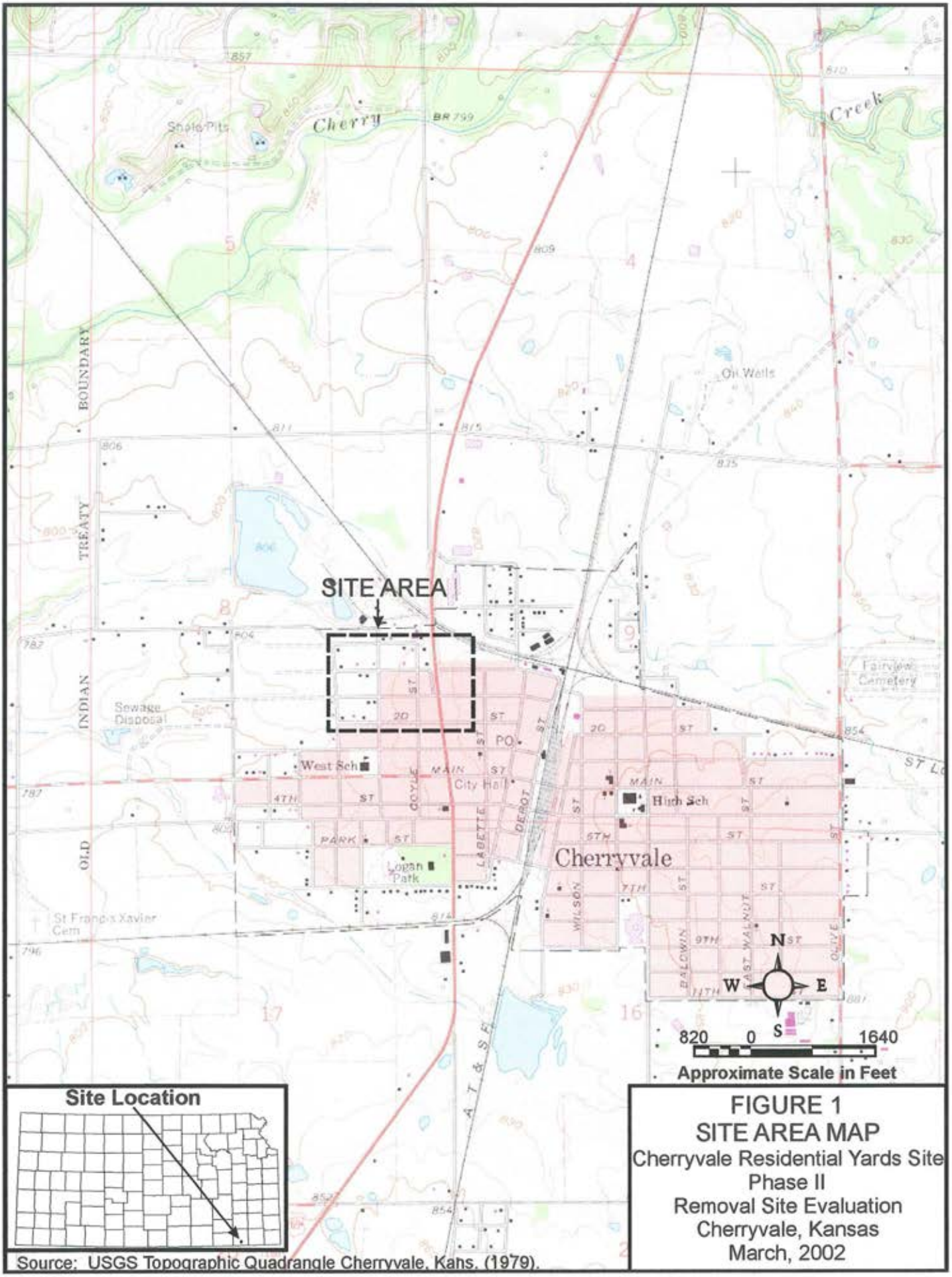
2. Kansas Department of Health and Environment, Bureau of Environmental Remediation, *Expanded Site Inspection of the National Zinc Site*, CERCLIS I.D. # KSD980406698, March, 2001.

3. Kansas Department of Health and Environment, Bureau of Environmental Remediation, *Removal Site Evaluation of the National Zinc Site*, CERCLIS I.D. # KSD980406698, March, 2001.

4. U.S. Environmental Protection Agency, Office of Solid Waste, Method 6200: *Field Portable X-Ray Fluorescence Spectrometry for the Determination of Elemental Concentrations in Soils and Sediment* (EPA Method 6200), 1998.

ATTACHMENT A

FIGURES AND TABLES



Source: USGS Topographic Quadrangle Cherryvale, Kans. (1979).

FIGURE 1
SITE AREA MAP
Cherryvale Residential Yards Site
Phase II
Removal Site Evaluation
Cherryvale, Kansas
March, 2002

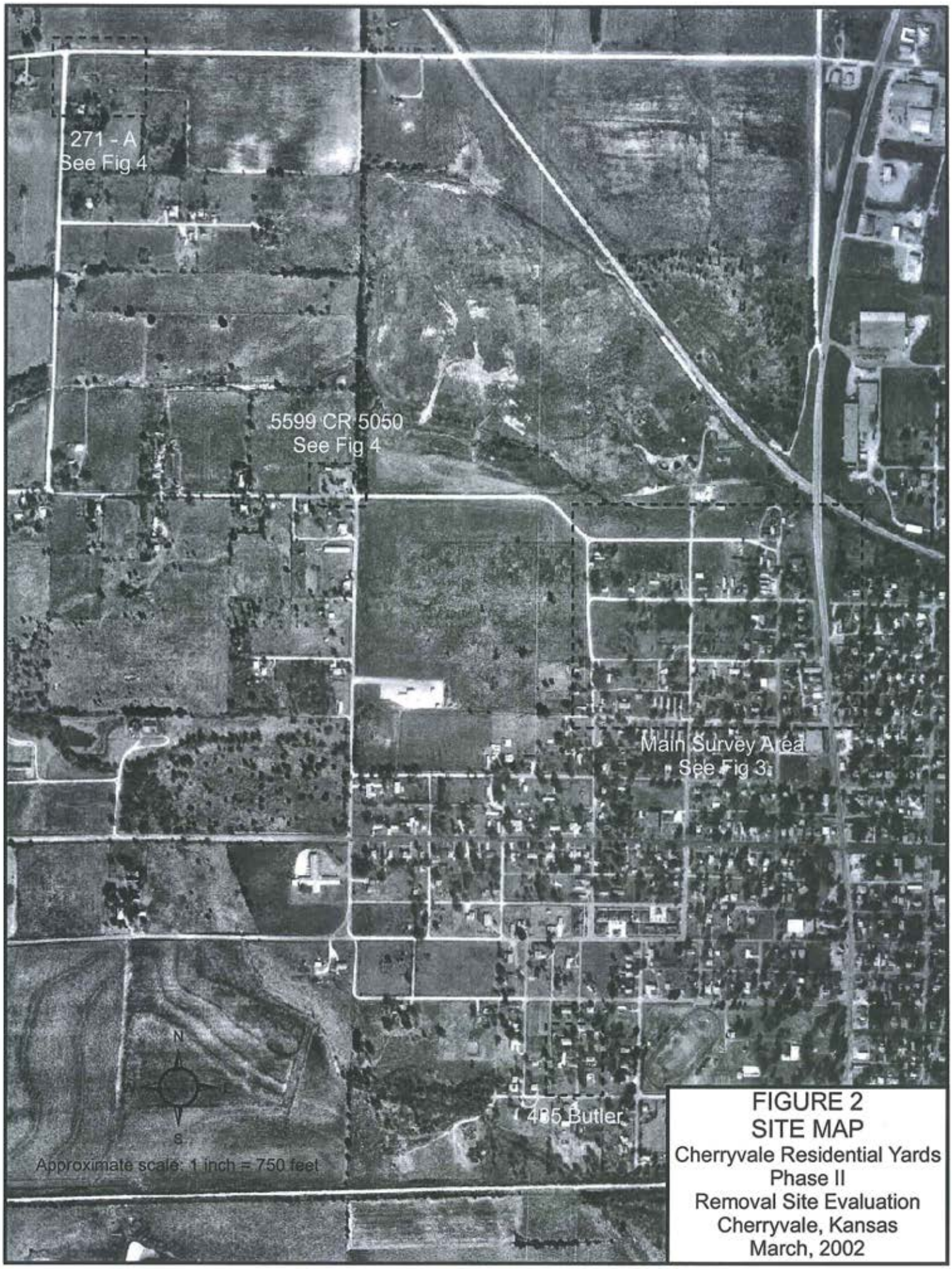


FIGURE 2
SITE MAP
Cherryvale Residential Yards
Phase II
Removal Site Evaluation
Cherryvale, Kansas
March, 2002

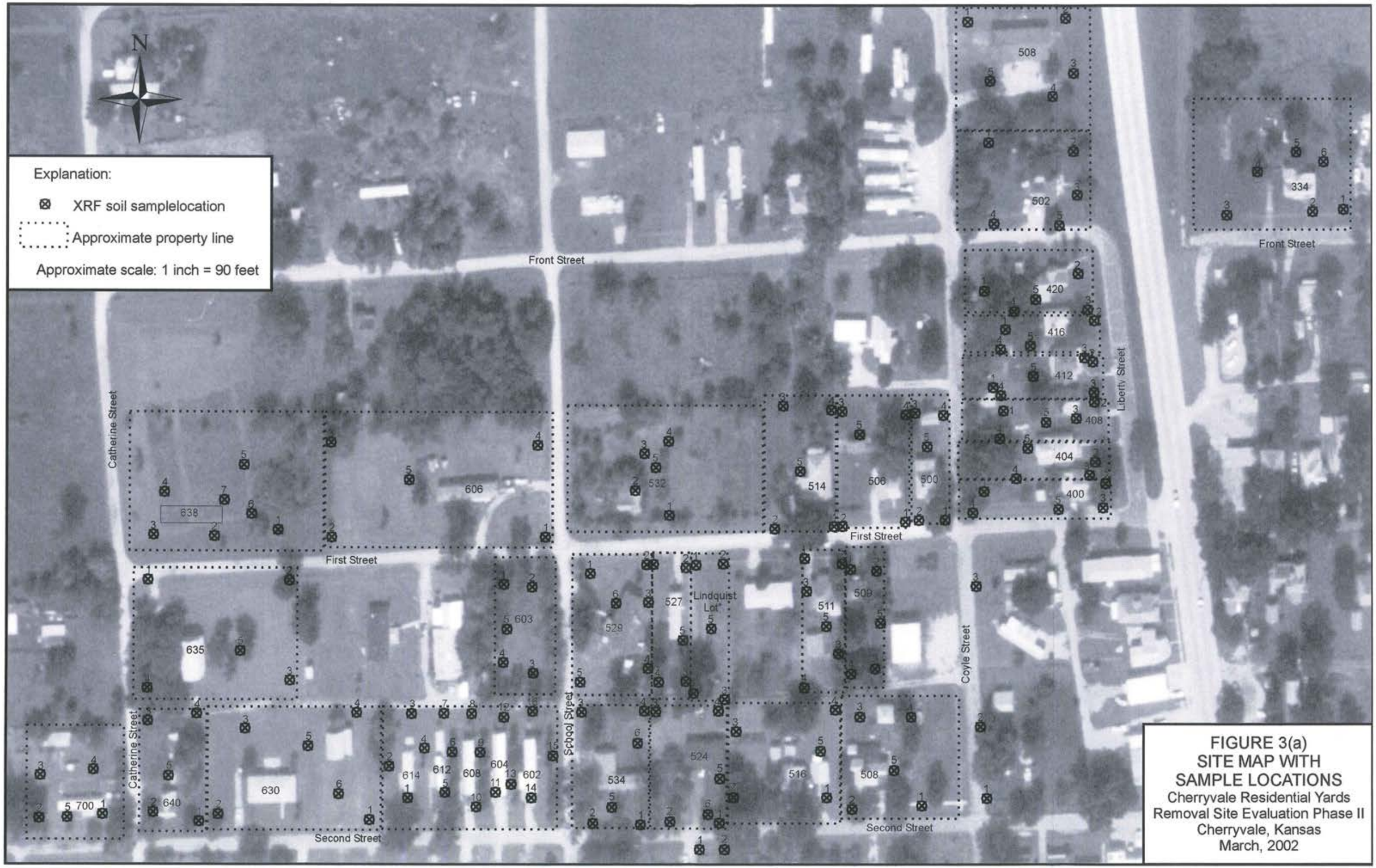


FIGURE 3(a)
SITE MAP WITH
SAMPLE LOCATIONS
Cherryvale Residential Yards
Removal Site Evaluation Phase II
Cherryvale, Kansas
March, 2002

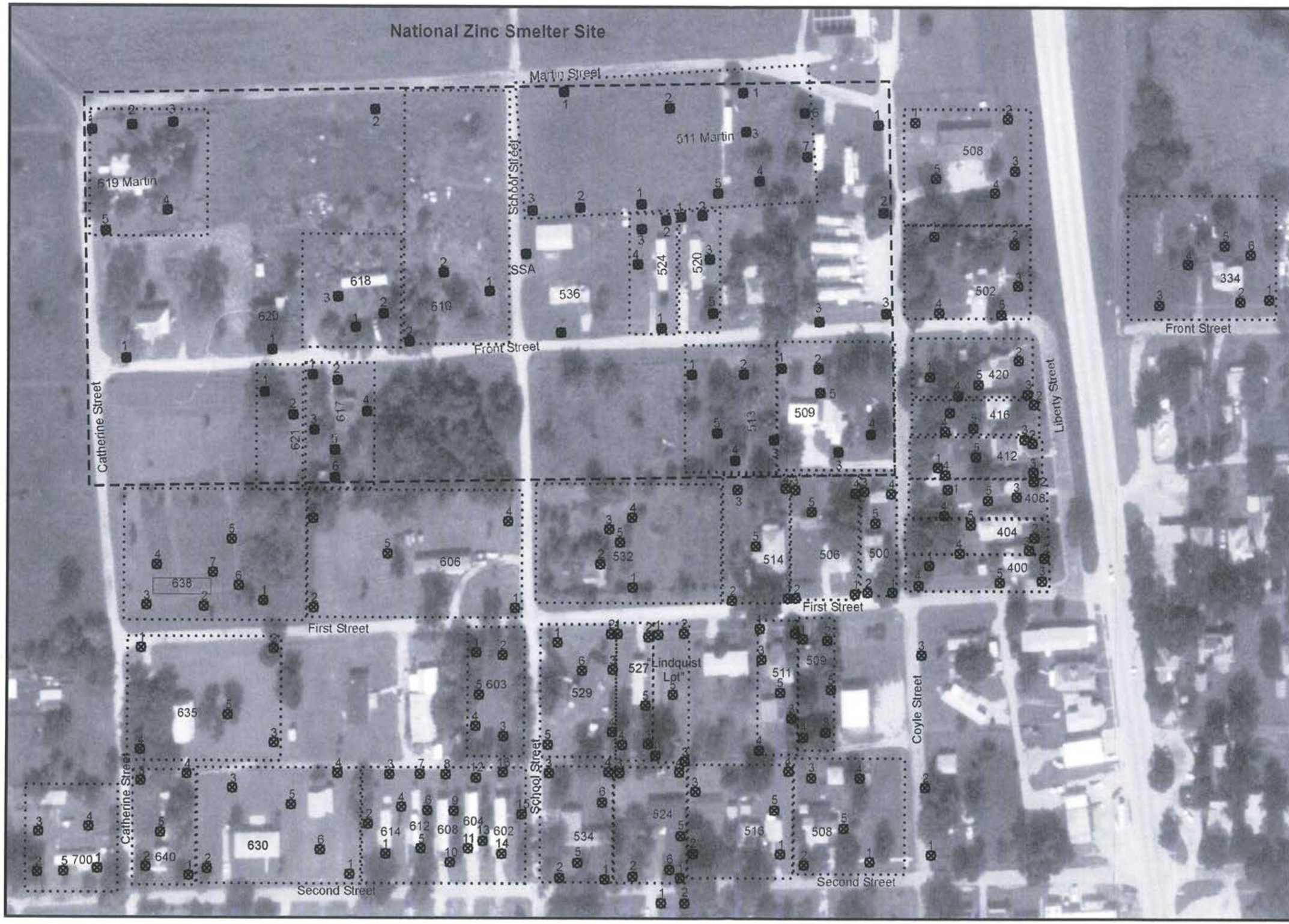


FIGURE 3 (b)
SITE MAP WITH PHASE I AND PHASE II SAMPLE LOCATIONS
Cherryvale Residential Yards Removal Site Evaluation Phase II
Cherryvale, Kansas
March, 2002

N

Approximate scale:
1 inch = 120 feet

Explanation:
⊗ XRF sample location
Property line (approximate)
Area of Phase I

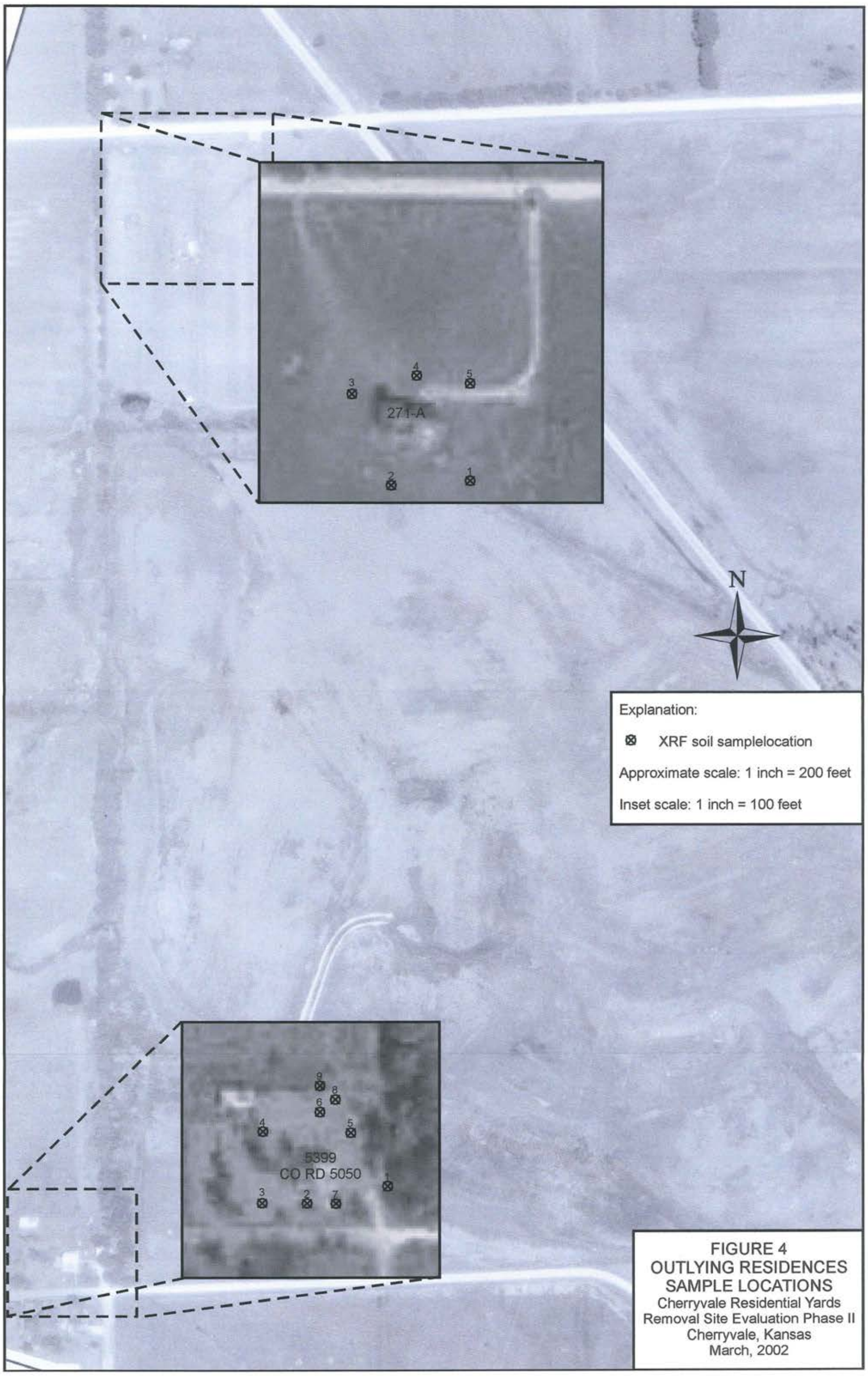


FIGURE 4
OUTLYING RESIDENCES
SAMPLE LOCATIONS
Cherryvale Residential Yards
Removal Site Evaluation Phase II
Cherryvale, Kansas
March, 2002

Table 1
XRF Field Screening Results
Cherryvale Residential Yards Phase II
Removal Site Evaluation
Cherryvale, Kansas
January, 2002

Sample Location	XL No.	Source Time	Lead (mg/kg)
500 W 1st -1	9	31.2	**566.8±90.5**
500 W 1st -2	11	31.5	**501.2±83.5**
500 W 1st -3	13	32.5	65.6±35.7
500 W 1st -4	15	31.5	190.2±51.3
500 W 1st -5	17	31.2	123.5±41.6
506 W 1st -1	19	31.3	200.5±52.7
506 W 1st -2	21	31	**432±71.3**
506 W 1st -3	23	31.5	**400.4±69.1**
506 W 1st -3 duplicate	24	31.4	392.6±70.2
506 W 1st -4	26	31.5	86.3±37.4
506 W 1st -5	28	31.6	86.1±32.2
514 W 1st -1	31	31.2	**454.4±71.5**
514 W 1st -1 duplicate	32	31.2	**451.6±70.8**
514 W 1st -2	34	31.8	253.2±54.6
514 W 1st -3	36	31.5	**499.6±71.3**
514 W 1st -4	38	31.6	336.4±61
514 W 1st -5	40	30.9	349.8±49.9
532 W 1st -1	42	31.8	272±56
532 W 1st -2	44	31.5	**606.8±79.5**
532 W 1st -3	46	31	**748.8±86.8**
532 W 1st -3 duplicate	47	31.3	**791.2±87.9**
532 W 1st -4	49	34.9	356.6±54.1
532 W 1st -5	51	31.3	130.6±39.3
511 W 1st -1	54	32	<LOD 49.5
511 W 1st -2	56	31	**648.8±86.4**
511 W 1st -2 duplicate	57	31.3	**596.4±81**
511 W 1st -3	59	34.8	184.5±44.2

Sample Location	XL No.	Source Time	Lead (mg/kg)
511 W 1st -4	61	31.9	313.6±52.4
511 W 1st -5	63	30.7	389.4±69.3
527 W 1st -1	65	31.7	392.8±68.5
527 W 1st -2	67	31.4	346.4±68.4
527 W 1st -3	69	31.8	407.8±64.8
527 W 1st -3 duplicate	70	31.6	433.6±67.4
527 W 1st -4	72	31.3	586.8±76.8
527 W 1st -5	74	31	312.8±57.7
509 W 1st -1	77	31	806.8±89.6
509 W 1st -2	79	32.3	323.6±68.4
509 W 1st -3	81	31.5	184.9±47.3
509 W 1st -4	83	30.6	480.8±74.1
509 W 1st -4 duplicate	84	30.6	542.8±75.5
509 W 1st -5	86	30.8	1040±99.4
Lindquist Lot -1	91	31.4	244.4±47.5
Lindquist Lot -1 duplicate	92	31.5	272.4±49.2
Lindquist Lot -2	93	31.3	351.6±55.1
Lindquist Lot -3	94	31.6	289.8±64.8
Lindquist Lot -4	95	31	503.2±63.4
Lindquist Lot -5	97	31.6	193.2±46.8
606 W 1st -1	98	31.8	231.8±53.1
606 W 1st -2	99	31.5	392.6±56.2
606 W 1st -3	100	31	833.6±82.1
606 W 1st -3 duplicate	101	31.2	808±81.6
606 W 1st -4	103	31.1	544.4±66.7
606 W 1st -5	105	31.1	663.2±81.3
635 W 1st -1	107	31.1	457.6±71.4
635 W 1st -2	108	30.9	530.8±83.5
635 W 1st -3	110	31.9	192.7±45.6
635 W 1st -4	111	31.8	116.4±38.4
635 W 1st -5	112	31.6	364.6±61.1
635 W 1st -5 duplicate	114	31.4	453.2±68.9

Sample Location	XL No.	Source Time	Lead (mg/kg)
640 W 2nd -1	118	31.3	219.8±44.1
640 W 2nd -2	119	31.4	130.5±42.4
640 W 2nd -2 duplicate	120	31.6	194.9±49.5
640 W 2nd -3	121	31.8	117.3±39.1
640 W 2nd -4	122	32	80.7±32.4
640 W 2nd -5	123	32.6	<LOD 44.55
630 W 2nd -1	124	32	**477.6±84.7**
630 W 2nd -1 duplicate	125	31.3	**408.8±65.5**
630 W 2nd -2	126	31.6	137.4±41
630 W 2nd -3	127	31.9	102.5±36.4
630 W 2nd -3 duplicate	128	32.3	126.7±40.5
630 W 2nd -4	129	31.8	374.4±60.6
630 W 2nd -5	130	32.1	230.2±51.2
630 W 2nd -6	131	32.5	278.8±65.7
614 W 2nd -1	133	32	68.6±29.2
614 W 2nd -2	134	32	76.7±33.5
614 W 2nd -3	135	32	51.7±30.1
614 W 2nd -3 duplicate	136	35.7	65.1±30.9
614 W 2nd -4	137	31.6	56.9±26.1
614 W 2nd -5	138	31.9	295±67
614 W 2nd -6	139	31.2	306.2±55.3
614 W 2nd -7	140	32.2	<LOD 31.2
614 W 2nd -8	141	31.5	97.6±33.1
614 W 2nd -9	142	31.5	168.2±44.1
614 W 2nd -10	143	32.2	134.4±47.3
614 W 2nd -11	144	31.9	67.3±34.7
614 W 2nd -12	145	31.7	118.4±33.9
614 W 2nd -13	147	31.5	140.1±35.9
614 W 2nd -13 duplicate	148	38.2	177.9±35.4
614 W 2nd -14	149	32	96.2±34.9
614 W 2nd -15	150	32.1	149.9±41.9
614 W 2nd -16	151	36	<LOD 45.9

Sample Location	XL No.	Source Time	Lead (mg/kg)
534 W 2nd -1	157	31.9	238.2±53.4
534 W 2nd -1 duplicate	158	31.8	252.2±53.7
534 W 2nd -2	159	31.1	234.8±48.2
534 W 2nd -3	160	31.8	163.5±41.2
534 W 2nd -4	161	31.1	400.4±59.1
534 W 2nd -5	162	37.7	130.1±31.8
534 W 2nd -6	163	32	82.9±34.2
524 W 2nd -1	164	30.9	586.4±68.3
524 W 2nd -2	165	31.2	444.8±76.6
524 W 2nd -2 duplicate	166	31.4	401.8±69
524 W 2nd -3	167	31	184.3±38.3
524 W 2nd -4	168	31.6	313.8±61.8
524 W 2nd -5	169	30.9	273.2±54.5
524 W 2nd -6	170	30.9	432.4±56.3
Soil adjacent to sidewalk	172	30.7	864±100
516 W 2nd -1	175	31.1	464.8±58.7
516 W 2nd -2	176	31.3	246.6±47.2
516 W 2nd -3	177	27.7	222.6±58.7
516 W 2nd -4	178	31	398.4±56.7
516 W 2nd -4 duplicate	179	31.1	351.6±52.8
516 W 2nd -5	180	31.5	414.8±65.6
508 W 2nd -1	181	31.3	249±51.1
508 W 2nd -2	182	31.1	354±55.9
508 W 2nd -2 duplicate	183	31	346.2±55.2
508 W 2nd -3	184	31.1	285±56.5
508 W 2nd -4	185	31.2	271.4±48.5
508 W 2nd -5	186	31.3	353.4±56.1
Coyle ERROW -1	187	30.9	278.6±51.8
Coyle ERROW -2	188	30.6	609.6±83.9
Coyle ERROW -2 duplicate	189	13.5	632±120
Coyle ERROW -3	190	30.9	143.3±39.8
529 W 1st -1	192	31.7	153.9±39.6

Sample Location	XL No.	Source Time	Lead (mg/kg)
529 W 1st -2	193	31.1	423.2±68.9
529 W 1st -3	194	31.5	70.1±30.3
529 W 1st -4	195	32.1	391.4±66.4
529 W 1st -4 duplicate	196	35.3	396.6±64
529 W 1st -5	197	31.3	72.9±29.7
529 W 1st -6	198	31.8	<LOD 38.1
1st & School -1	199	31.5	373.2±60.6
1st & School -2	200	31.5	516.4±94.1
1st & School -2 duplicate	201	31.6	592.8±99.4
1st & School -3	202	31	474.4±63.8
1st & School -4	203	31.4	108.9±35.2
1st & School -5	204	31.2	390.4±63.3
2nd Street SRROW -1	205	31.5	128.4±42
2nd Street SRROW -2	206	31.2	90.9±33
638 W 1st -1	207	31.1	284.8±49.4
638 W 1st -2	208	31.8	136.8±40
638 W 1st -3	209	30.5	187.9±41.3
638 W 1st -3 duplicate	210	31	206.4±41.2
638 W 1st -4	211	30.9	343.6±60.9
638 W 1st -5	212	31	522.8±63.4
638 W 1st -6	213	31.2	482±65
638 W 1st -7	214	31.3	614±75.9
508 N Liberty - 1	339	32.5	411.6±70.9
508 N Liberty - 1 - dup	340	32.1	365.6±67.7
508 N Liberty - 2	341	31.7	110.5±39.8
508 N Liberty - 3	342	32.9	184.1±53.6
502 N Liberty - 4	343	32.9	146.5±58.9
508 N Liberty - 5	344	32.1	148.4±39.4
502 N Liberty - 1	345	31.5	219.8±48.7
502 N Liberty - 1 - dup	346	31.7	274±50.9
502 N Liberty - 2	347	31.4	195.6±40.4
502 N Liberty - 3	348	32.1	114.6±33.2

Sample Location	XL No.	Source Time	Lead (mg/kg)
502 N Liberty - 4	349	31.7	157.9±35.2
502 N Liberty - 5	350	31.8	203.9±46.3
420 N LIberty - 1	352	30.9	312.2±52
420 N Liberty - 2	353	31.3	487.2±69.7
420 N Liberty - 3	354	31.6	116±31
420 N Liberty - 4	355	31.6	362.8±50.9
420 N Liberty - 5	356	30.7	821.6±81.9
416 N Liberty - 1	357	31.1	954.4±100
416 N Liberty - 1 - dup	358	31.1	597.2±69.6
416 N Liberty - 2	359	31.3	370.6±58.9
416 N Liberty - 3	360	31.3	493.2±65.6
416 N Liberty - 4	361	30.9	801.2±81.9
416 N Liberty - 5	362	30.4	1729.6±120
412 N Liberty - 1	364	31.9	58±26.3
412 N Liberty - 1 - dup	365	31.6	75±29.7
412 N Liberty - 2	366	31.5	65.9±31
412 N Liberty - 3	367	31.6	241±47.6
412 N Liberty - 4	368	32	207.2±47.6
412 N Liberty - 5	369	31.6	187.9±41.5
408 N Liberty - 1	370	31.7	303.2±52.6
408 N Liberty - 2	371	32.6	<LOD 55.8
408 N Liberty - 3	372	31.5	252.2±47.5
408 N Liberty - 4	373	31.7	364.8±60
408 N Liberty - 5	374	32.2	237.8±54.2
404 N Liberty - 1	376	31.5	176.4±36.1
404 N Liberty - 1 - dup	377	31.6	180.1±37
404 N Liberty - 2	378	31.4	85±28.7
404 N Liberty - 3	379	31.6	154±36.1
404 N Liberty - 4	380	30.7	1109.6±98.2
400 N Liberty - 1	381	31.5	265±52.3
400 N Liberty - 2	382	32	105.3±36
400 N Liberty - 3	383	32	417.2±57.9

Sample Location	XL No.	Source Time	Lead (mg/kg)
400 N Liberty - 4	384	31.7	240.6±43.8
400 N Liberty - 5	385	31	436±61.3
400 N Liberty - 5 - dup	386	31	445.2±62.1
700 W 2nd - 1	393	32	102±38
700 W 2nd - 1 - duplicate	394	31	122±40
700 W 2nd - 2	395	31	138±37
700 W 2nd - 3	396	30	213±44
700 W 2nd - 4	397	31	233±50
700 W 2nd - 5	398	31	229±43
334 W Front - 1	399	31	221±47
334 W Front - 2	400	31	232±48
334 W Front - 3	401	30	309±55
334 W Front - 3 - duplicate	402	30	274±51
334 W Front - 4	403	31	166±42
334 W Front - 5	404	31	314±54
334 W Front - 6	405	31	127±38
435 Butler - 1	407	31	264±55
435 Butler - 2	408	31	181±42
435 Butler - 3	409	31	168±42
435 Butler - 4	410	31	180±47
435 Butler - 4 - duplicate	411	31	171±46
435 Butler - 5	412	31	187±44
271 - A - 1	522	31.8	67.6±28.1
271 - A - 2	523	32.5	56.2±31.3
271 - A - 3	524	32	<LOD 33.6
271 - A - 4	525	31	35±23.3
271 - A - 5	526	32	84.8±35.7
5399 CR 5050 - 1	527	31	600.4±64.9
5399 CR 5050 - 2	528	31	94±30.1
5399 CR 5050 - 3	529	31	181.4±41
5399 CR 5050 - 3 - duplicate	530	31	172.8±36.2
5399 CR 5050 - 4	531	32	142.8±41.8

Sample Location	XL No.	Source Time	Lead (mg/kg)
5399 CR 5050 - 5	532	38	393.4±50.8
5399 CR 5050 - 6	533	31	225±43.2
5399 CR 5050 - 7	534	31	**456.8±69.40**
5399 CR 5050 - 8	535	32	118.2±42.7
5399 CR 5050 - 9	536	32	50.7±24

Notes: Screening samples were analyzed *in-situ* following EPA Method 6200. Samples were analyzed using a NITON Model 702 X-Ray Fluorescence Analyzer with a Cd^{109} source at 6 - 7 milliCuries (mCi), depending on dates of analysis. Results given in **bold red** are greater than the Risk Based Standards for Kansas RSK for the residential soil pathway, which is 400 mg/kg.

Table 2
Laboratory Analytical Data
Cherryvale Residential Yards Phase II
Removal Site Evaluation
Cherryvale, Kansas
January, 2002

Site ID	Arsenic	Cadmium	Chromium	Lead
Residential RSK	11.0	39.0	390	400
514 W 1st	**23.56**	35.06	28.18	**1447.31**
606 W 1st	**14.62**	22.90	21.90	**1054.38**
500 W 1st	**49.23**	21.03	16.42	**921.01**
509 W 1st	**42.64**	23.85	36.66	**1216.35**
630 W 2nd	**36.39**	16.05	17.30	**570.24**
506 W 1st	**24.01**	11.23	28.56	**600.36**
532 W 1st	**28.18**	30.46	31.46	**1493.79**
527 W 1st	**16.80**	22.29	27.14	**911.66**
511 W 1st	**27.70**	19.66	15.03	**1181.53**
635 W 1st	**12.83**	26.69	13.44	**735.40**
614 W 2nd	5.04	2.29	13.22	50.68
640 W 2nd	8.83	8.79	16.00	211.05
604 W 2nd	6.03	5.55	13.47	143.94
612 W 2nd	9.57	8.26	24.16	250.83
Lindquist Lot	**14.85**	14.37	26.13	**612.48**
524 W 2nd	**27.38**	23.91	18.28	**1012.93**
638 W 1st - 7	**13.03**	22.82	24.93	**1040.13**
638 W 1st - 5	9.90	12.79	16.22	**442.54**
Empty Lot	**20.97**	19.16	22.00	**797.33**
529 W 1st	**23.85**	8.87	17.62	**440.96**
508 W 2nd	8.23	4.09	18.37	195.86
516 W 2nd	10.47	10.46	19.12	**561.57**
534 W 2nd	**11.27**	12.61	20.24	**544.04**

Site ID	Arsenic	Cadmium	Chromium	Lead
400 N Liberty	**25.5**	24.3	14.5	**1040**
404 N Liberty	**19.6**	23.1	22.9	**1030**
406 N Liberty	**32.3**	31.8	21.0	**1710**
412 N Liberty	<12.6	12.5	16.0	341
416 N Liberty-1	**14.2**	16.8	24.3	**1800**
416 N Liberty-5	**12.0**	18.90	14.3	**1120**
420 N Liberty	**11.5**	14.4	11.2	**852**
420 N Liberty-5	**14.9**	16.7	15.1	**830**
502 N Liberty	**12.0**	10.4	13.9	332
508 N Liberty	**11.6**	21.5	13.0	**672**
271-A	<11.1	4.34	16.3	103
5399 CR 5050	**19.8**	22.3	29.5	**1210**
Rinsate	<0.050	<0.005	<0.010	<0.050

Notes: All results, except rinsate, given in milligrams per kilogram (mg/kg). Rinsate result given in milligrams per liter (mg/L). Soil samples analyzed by EPA Method 6010, aqueous sample analyzed by EPA Method 200.7. Residential RSK values are the Risk Based Standards for Kansas for the soil pathway in residential settings. Concentrations given in **bold red** are greater than the respective RSK values.

Table 3(a)

XRF QA/QC Data
Calibration Verification Checks
Cherryvale Residential Yards Phase II
Removal Site Evaluation
Cherryvale, Kansas
January, 2002

Standard	XL No.	Source Time	Lead (mg/kg)	Standard Value	Percent Difference (%D)
Medium	8	34.2	1189.6	1162	2.38
Medium	30	31.1	1189.6	1162	2.38
Medium	53	31.1	1160	1162	0.17
Medium	76	30.9	1200	1162	3.27
Medium	88	30.9	1100	1162	5.34
Medium	90	30.8	1229.6	1162	5.82
Medium	132	30.9	1120	1162	3.61
Medium	191	30.8	1180	1162	1.55
Medium	338	30.8	1140	1162	1.89
Medium	375	30.7	1229.6	1162	5.82
Medium	392	30	1180	1162	1.55
Medium	413	30	1200	1162	3.27
High	117	32.8	5718.4	5532	3.37
High	156	35.9	5529.6	5532	0.04
High	171	32.7	5600	5532	1.23
High	215	32.4	5539.2	5532	0.13
High	351	32.4	5718.4	5532	3.37
High	363	32.7	5737.6	5532	3.72
High	387	32.7	5459.2	5532	1.32
High	406	32	5860	5532	5.93
High	521	62.5	5628.8	5532	1.75
High	537	62.1	5779.2	5532	4.47
				Average % D =	2.83

Notes: The standard values given are National Institute of Standards and Testing (NIST) certified values. The percent difference (%D) is calculated using the following formula: $\%D = ((C_s - C_k)/C_k)*100$, where %D is the percent difference, C_s is the measured concentration of the standard and C_k is the certified concentration of the standard. Method 6200 states that the percent difference must be $\leq$ 20% for the instrument calibration to be considered acceptable.

Table 3 (b)
XRF QA/QC Data
Field Duplicates
Cherryvale Residential Yards Phase II
Removal Site Evaluation
Cherryvale, Kansas
January, 2002

Sample Location	First Value	Second Value	Standard Deviation	RSD
506 W 1st -3	400.4	392.6	3.9	0.98
514 W 1st -1	454.4	451.6	1.40	0.31
532 W 1st -3	748.8	791.2	21.2	2.75
511 W 1st -2	648.8	596.4	26.2	4.21
527 W 1st -3	407.8	433.6	12.9	3.07
509 W 1st -4	480.8	542.8	31	6.06
Lindquist Lot -1	244.4	272.4	14	5.42
606 W 1st -3	833.6	808	12.8	1.56
605 W 1st -5	364.6	453.2	3.9	0.95
640 W 2nd -2	130.5	194.9	32.2	19.79
630 W 2nd -1	477.6	408.8	34.4	7.76
630 W 2nd -3	102.5	126.7	12.1	10.56
614 W 2nd -3	51.7	65.1	6.7	11.47
614 W 2nd -13	140.1	177.9	18.9	11.89
534 W 2nd -1	238.2	252.2	7	2.85
524 W 2nd -2	444.8	401.8	21.5	5.08
516 W 2nd -4	398.4	351.6	23.4	6.24
508 W 2nd -2	354	346.2	3.9	1.11
Coyle ERROW -2	609.6	632	11.2	1.80
529 W 1st -4	391.4	396.6	2.6	0.66
1st & School -2	516.4	592.8	38.2	6.89
638 W 1st -3	187.9	206.4	9.25	4.69
508 N Liberty - 1	411.6	365.6	23	5.92
502 N Liberty - 1	219.8	274	27.1	10.98
416 N Liberty - 1	954.4	597.2	178.6	23.02
412 N Liberty - 1	58	75	8.5	12.78

Sample Location	First Value	Second Value	Standard Deviation	RSD
404 N Liberty - 1	176.4	180.1	1.85	1.04
400 N Liberty - 5	436	445.2	4.6	1.04
700 N 2nd - 1	102	122	10	8.93
334 W Front - 3	309	274	17.5	6.00
435 Butler - 4	180	171	4.5	2.56
5399 CR 5050 - 3	181.4	172.8	4.3	2.43
			Average RSD	5.96

Notes: The relative standard deviation (RSD) is calculated as follows: RSD = (SD/Mean Concentration)*100, where RSD is the relative standard deviation, SD is the standard deviation of the concentration for the analyte, Mean Concentration is the mean concentration for the analyte.

ATTACHMENT B

PHOTOGRAPHIC DOCUMENTATION

Photo #1 - Cherryvale Residential Yards RSE Phase II

Photographer: Randolph L. Brown
Date: November 8, 2001
Direction: Northeast
Comments: KDHE personnel conducting XRF soil screening in vacant lot on West 1st Street, east of 527 West 1st Street.

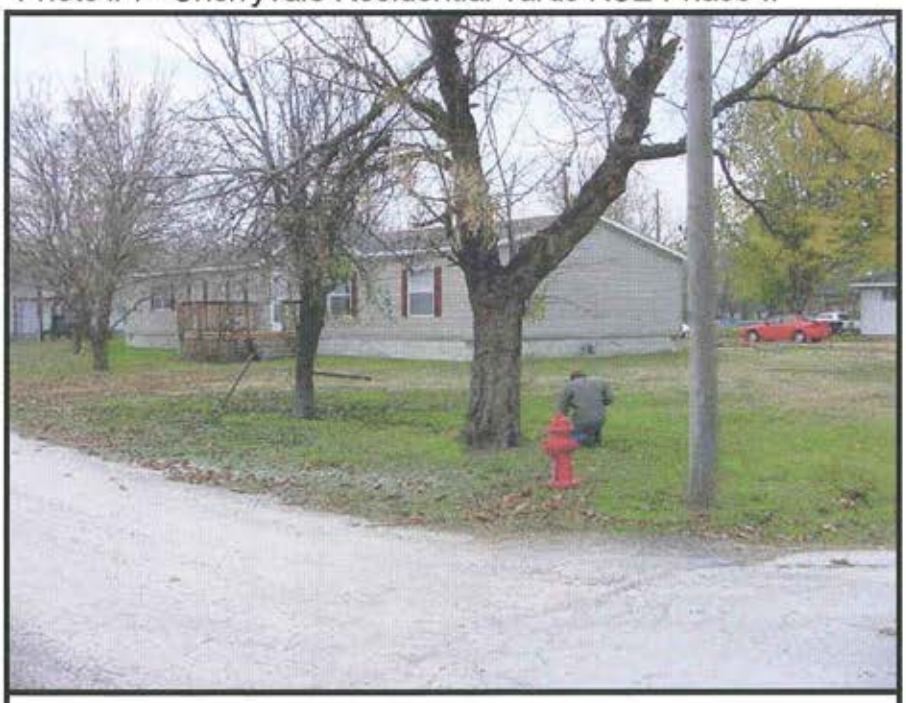
Photo #2 - Cherryvale Residential Yards RSE Phase II

Photographer: Randolph L. Brown
Date: November 8, 2001
Direction: South
Comments: KDHE personnel conducting soil screening behind residence at 630 West 2nd Street.

Photo #3 - Cherryvale Residential Yards RSE Phase II

Photographer: Randolph L. Brown
Date: November 8, 2001
Direction: East
Comments: View looking east along 2nd Street from near School Street.

Photo #4 - Cherryvale Residential Yards RSE Phase II



Photographer: Randolph L. Brown
Date: November 8, 2001
Direction: Northeast
Comments: KDHE personnel conducting soil screening in front of residence at 640 West Second Street.

ATTACHMENT C

LABORATORY ANALYTICAL DATA

DIVISION OF HEALTH & ENVIRONMENTAL LABORATORIES
Kansas Department of Health and Environment
Forbes Field, Bldg. 740, Topeka, Kansas 66620-0001

REPORT OF ANALYSIS

INORGANIC CHEMISTRY

Report To: Bureau of Env. Remediation
Signature Bldg. 4th Floor
ATTN: Randy Brown
Topeka KS 66620

Lab Number: 200859PT

Site ID: 4EM80
Account Code: EP

Collection Location: Cherryvale Residential Yards 514 W. 1st #3

Collector: Randy Brown
Matrix: Soil
Collect Depth:
Date/Time Collected: 10/31/01 13:09
Date/Time Received: 11/09/01 13:28

Sample Comments:

Parameter		Analytical Result	Units	Analysis Date	Analytical Method
Aluminum (Total)		18444.50	mg/Kg	11/19/01	EPA 6010
Antimony (Total)	<	5.00	mg/Kg	11/19/01	EPA 6010
Arsenic (Total)		23.56	mg/Kg	11/19/01	EPA 6010
Barium (Total)		266.52	mg/Kg	11/19/01	EPA 6010
Beryllium (Total)		0.61	mg/Kg	11/19/01	EPA 6010
Boron (Total)		16.38	mg/Kg	11/19/01	EPA 6010
Cadmium (Total)		35.06	mg/Kg	11/19/01	EPA 6010
Calcium (Total)		12816.49	mg/Kg	11/19/01	EPA 6010
Chromium (Total)		28.18	mg/Kg	11/19/01	EPA 6010
Cobalt (Total)		8.66	mg/Kg	11/19/01	EPA 6010
Copper (Total)		305.66	mg/Kg	11/19/01	EPA 6010
Iron (Total)		35458.44	mg/Kg	11/19/01	EPA 6010
Lead (Total)		1447.31	mg/Kg	11/19/01	EPA 6010
Magnesium (Total)		1595.37	mg/Kg	11/19/01	EPA 6010
Manganese (Total)		1149.86	mg/Kg	11/20/01	EPA 6010
Molybdenum (Total)	<	2.00	mg/Kg	11/19/01	EPA 6210
Nickel (Total)		22.38	mg/Kg	11/19/01	EPA 6210
Potassium (Total)		3064.14	mg/Kg	11/19/01	EPA 6210
Selenium (Total)	<	5.00	mg/Kg	11/19/01	EPA 6210
Silica (Total)		2253.22	mg/Kg	11/19/01	EPA 6210
Silver (Total)		2.08	mg/Kg	11/19/01	EPA 6210
Sodium (Total)		97.00	mg/Kg	11/19/01	EPA 6210
Thallium (Total)	<	5.00	mg/Kg	11/19/01	EPA 6210
Vanadium (Total)		34.78	mg/Kg	11/19/01	EPA 6210
Zinc (Total)		5991.17	mg/Kg	11/20/01	EPA 6210

Reporting Analyst: REH
Date Reported: 11/22/01

< - Not Detected at Indicated Level
* - Holding Time Exceeded

Copies To: File

RECEIVED
NOV 27 2001
BUREAU OF
ENVIRONMENTAL REMEDIATION

Environmental Laboratories
Inorganic Chemistry (785) 296-1657
Organic Chemistry (785) 296-1647
Radiochemistry (785) 296-1629
Env. Microbiology (785) 296-0971

Roger H. Carlson, Ph.D., Director - (785) 296-1620
Laboratory Information and Reporting - (785) 296-1627
Laboratory Fax - (785) 296-1641

Health Laboratories
Diagnostic Micro. (785) 296-1636
Neonatal Screening (785) 296-1651
Serology (785) 296-1653
Virology (785) 296-1645

DIVISION OF HEALTH & ENVIRONMENTAL LABORATORIES
Kansas Department of Health and Environment
Forbes Field, Bldg. 740, Topeka, Kansas 66620-0001

REPORT OF ANALYSIS

INORGANIC CHEMISTRY

Report To: Bureau of Env. Remediation
Signature Bldg. 4th Floor
ATTN: Randy Brown
Topeka KS 66620

Lab Number: 200860PT

Site ID: 4EM80
Account Code: EP

Collection Location: Cherryvale Residential Yards 606 W. 1st

Collector: Randy Brown
Matrix: Soil
Collect Depth:
Date/Time Collected: 11/08/01 12:20
Date/Time Received: 11/09/01 13:28

Sample Comments:

Parameter		Analytical Result	Units	Analysis Date	Analytical Method
Aluminum (Total)		15948.01	mg/Kg	11/19/01	EPA 6010
Antimony (Total)	<	5.00	mg/Kg	11/19/01	EPA 6010
Arsenic (Total)		14.62	mg/Kg	11/19/01	EPA 6010
Barium (Total)		145.30	mg/Kg	11/19/01	EPA 6010
Beryllium (Total)		0.48	mg/Kg	11/19/01	EPA 6010
Boron (Total)		10.51	mg/Kg	11/19/01	EPA 6010
Cadmium (Total)		22.90	mg/Kg	11/19/01	EPA 6010
Calcium (Total)		3943.16	mg/Kg	11/19/01	EPA 6010
Chromium (Total)		21.90	mg/Kg	11/19/01	EPA 6010
Cobalt (Total)		6.55	mg/Kg	11/19/01	EPA 6010
Copper (Total)		134.83	mg/Kg	11/19/01	EPA 6010
Iron (Total)		19825.24	mg/Kg	11/19/01	EPA 6010
Lead (Total)		1054.38	mg/Kg	11/19/01	EPA 6010
Magnesium (Total)		1121.11	mg/Kg	11/19/01	EPA 6010
Manganese (Total)		561.99	mg/Kg	11/19/01	EPA 6010
Molybdenum (Total)	<	2.00	mg/Kg	11/19/01	EPA 6210
Nickel (Total)		16.40	mg/Kg	11/19/01	EPA 6210
Potassium (Total)		2670.65	mg/Kg	11/19/01	EPA 6210
Selenium (Total)	<	5.00	mg/Kg	11/19/01	EPA 6210
Silica (Total)		2183.74	mg/Kg	11/19/01	EPA 6210
Silver (Total)	<	1.00	mg/Kg	11/19/01	EPA 6210
Sodium (Total)		80.08	mg/Kg	11/19/01	EPA 6210
Thallium (Total)	<	5.00	mg/Kg	11/19/01	EPA 6210
Vanadium (Total)		32.00	mg/Kg	11/19/01	EPA 6210
Zinc (Total)		3628.82	mg/Kg	11/20/01	EPA 6210

Reporting Analyst: REH
Date Reported: 11/22/01

< - Not Detected at Indicated Level
* - Holding Time Exceeded

Copies To: File

RECEIVED
NOV 27 2001
BUREAU OF
ENVIRONMENTAL REMEDIATION

DIVISION OF HEALTH & ENVIRONMENTAL LABORATORIES
Kansas Department of Health and Environment
Forbes Field, Bldg. 740, Topeka, Kansas 66620-0001

REPORT OF ANALYSIS

INORGANIC CHEMISTRY

Report To: Bureau of Env. Remediation
Signature Bldg. 4th Floor
ATTN: Randy Brown
Topeka KS 66620

Lab Number: 200858PT

4EM80
Site ID:
Account Code: EP

Collection Location: Cherryvale Residential Yards 500 W. 1st

Collector: Randy Brown
Matrix: Soil
Collect Depth:
Date/Time Collected: 10/31/01 13:05
Date/Time Received: 11/09/01 13:28

Sample Comments:

Parameter		Analytical Result	Units	Analysis Date	Analytical Method
Aluminum (Total)		14486.27	mg/Kg	11/19/01	EPA 6010
Antimony (Total)	<	5.00	mg/Kg	11/19/01	EPA 6010
Arsenic (Total)		49.23	mg/Kg	11/19/01	EPA 6010
Barium (Total)		237.27	mg/Kg	11/19/01	EPA 6010
Beryllium (Total)		0.41	mg/Kg	11/19/01	EPA 6010
Boron (Total)		12.15	mg/Kg	11/19/01	EPA 6010
Cadmium (Total)		21.03	mg/Kg	11/19/01	EPA 6010
Calcium (Total)		86498.07	mg/Kg	11/19/01	EPA 6010
Chromium (Total)		16.42	mg/Kg	11/19/01	EPA 6010
Cobalt (Total)		15.19	mg/Kg	11/19/01	EPA 6010
Copper (Total)		811.60	mg/Kg	11/19/01	EPA 6010
Iron (Total)		22532.93	mg/Kg	11/19/01	EPA 6010
Lead (Total)		921.01	mg/Kg	11/19/01	EPA 6010
Magnesium (Total)		2457.97	mg/Kg	11/19/01	EPA 6010
Manganese (Total)		1844.15	mg/Kg	11/20/01	EPA 6010
Molybdenum (Total)		2.53	mg/Kg	11/19/01	EPA 6210
Nickel (Total)		34.82	mg/Kg	11/19/01	EPA 6210
Potassium (Total)		2254.54	mg/Kg	11/19/01	EPA 6210
Selenium (Total)	<	5.00	mg/Kg	11/19/01	EPA 6210
Silica (Total)		1910.68	mg/Kg	11/19/01	EPA 6210
Silver (Total)		9.24	mg/Kg	11/19/01	EPA 6210
Sodium (Total)		158.01	mg/Kg	11/19/01	EPA 6210
Thallium (Total)	<	5.00	mg/Kg	11/19/01	EPA 6210
Vanadium (Total)		28.45	mg/Kg	11/19/01	EPA 6210
Zinc (Total)		6259.02	mg/Kg	11/20/01	EPA 6210

Reporting Analyst: REH
Date Reported: 11/22/01

< - Not Detected at Indicated Level
* - Holding Time Exceeded

Copies To: File

RECEIVED
NOV 27 2001
BUREAU OF
ENVIRONMENTAL REMEDIATION

DIVISION OF HEALTH & ENVIRONMENTAL LABORATORIES
Kansas Department of Health and Environment
Forbes Field, Bldg. 740, Topeka, Kansas 66620-0001

REPORT OF ANALYSIS

INORGANIC CHEMISTRY

Report To: Bureau of Env. Remediation
Signature Bldg. 4th Floor
ATTN: Randy Brown
Topeka KS 66620

Lab Number: 200857PT

Site ID: 4EM80
Account Code: EP

Collection Location: Cherryvale Residential Yards 509 W. 1st

Collector: Randy Brown
Matrix: Soil
Collect Depth:
Date/Time Collected: 10/31/01 14:10
Date/Time Received: 11/09/01 13:28

Sample Comments:

Parameter		Analytical Result	Units	Analysis Date	Analytical Method
Aluminum (Total)		22433.45	mg/Kg	11/19/01	EPA 6010
Antimony (Total)	<	5.00	mg/Kg	11/19/01	EPA 6010
Arsenic (Total)		42.64	mg/Kg	11/19/01	EPA 6010
Barium (Total)		385.20	mg/Kg	11/19/01	EPA 6010
Beryllium (Total)		0.57	mg/Kg	11/19/01	EPA 6010
Boron (Total)		15.96	mg/Kg	11/19/01	EPA 6010
Cadmium (Total)		23.85	mg/Kg	11/19/01	EPA 6010
Calcium (Total)		10470.95	mg/Kg	11/19/01	EPA 6010
Chromium (Total)		36.66	mg/Kg	11/19/01	EPA 6010
Cobalt (Total)		11.74	mg/Kg	11/19/01	EPA 6010
Copper (Total)		423.00	mg/Kg	11/19/01	EPA 6010
Iron (Total)		25916.80	mg/Kg	11/19/01	EPA 6010
Lead (Total)		1216.35	mg/Kg	11/19/01	EPA 6010
Magnesium (Total)		1915.61	mg/Kg	11/19/01	EPA 6010
Manganese (Total)		1309.24	mg/Kg	11/20/01	EPA 6010
Molybdenum (Total)	<	2.00	mg/Kg	11/19/01	EPA 6210
Nickel (Total)		28.28	mg/Kg	11/19/01	EPA 6210
Potassium (Total)		3820.20	mg/Kg	11/19/01	EPA 6210
Selenium (Total)	<	5.00	mg/Kg	11/19/01	EPA 6210
Silica (Total)		2085.14	mg/Kg	11/19/01	EPA 6210
Silver (Total)		4.90	mg/Kg	11/19/01	EPA 6210
Sodium (Total)		125.93	mg/Kg	11/19/01	EPA 6210
Thallium (Total)	<	5.00	mg/Kg	11/19/01	EPA 6210
Vanadium (Total)		41.17	mg/Kg	11/19/01	EPA 6210
Zinc (Total)		4233.46	mg/Kg	11/20/01	EPA 6210

Reporting Analyst: REH
Date Reported: 11/22/01

< - Not Detected at Indicated Level
* - Holding Time Exceeded

Copies To: File

RECEIVED
NOV 27 2001
BUREAU OF
ENVIRONMENTAL REMEDIATION

DIVISION OF HEALTH & ENVIRONMENTAL LABORATORIES
Kansas Department of Health and Environment
Forbes Field, Bldg. 740, Topeka, Kansas 66620-0001

REPORT OF ANALYSIS

INORGANIC CHEMISTRY

Report To: Bureau of Env. Remediation
Signature Bldg. 4th Floor
ATTN: Randy Brown
Topeka KS 66620

Lab Number: 200856PT

Site ID: 4EM80
Account Code: EP

Collection Location: Cherryvale Residential Yards 630 W. 2nd

Collector: Randy Brown
Matrix: Soil
Collect Depth:
Date/Time Collected: 11/08/01 13:45
Date/Time Received: 11/09/01 13:28

Sample Comments:

Parameter		Analytical Result	Units	Analysis Date	Analytical Method
Aluminum (Total)		12928.54	mg/Kg	11/19/01	EPA 6010
Antimony (Total)	<	5.00	mg/Kg	11/19/01	EPA 6010
Arsenic (Total)		36.39	mg/Kg	11/19/01	EPA 6010
Barium (Total)		142.26	mg/Kg	11/19/01	EPA 6010
Beryllium (Total)		0.36	mg/Kg	11/19/01	EPA 6010
Boron (Total)		11.12	mg/Kg	11/19/01	EPA 6010
Cadmium (Total)		16.05	mg/Kg	11/19/01	EPA 6010
Calcium (Total)		35873.14	mg/Kg	11/19/01	EPA 6010
Chromium (Total)		17.30	mg/Kg	11/19/01	EPA 6010
Cobalt (Total)		10.64	mg/Kg	11/19/01	EPA 6010
Copper (Total)		578.97	mg/Kg	11/19/01	EPA 6010
Iron (Total)		24743.85	mg/Kg	11/19/01	EPA 6010
Lead (Total)		570.24	mg/Kg	11/19/01	EPA 6010
Magnesium (Total)		1582.34	mg/Kg	11/19/01	EPA 6010
Manganese (Total)		825.41	mg/Kg	11/19/01	EPA 6010
Molybdenum (Total)	<	2.00	mg/Kg	11/19/01	EPA 6210
Nickel (Total)		22.45	mg/Kg	11/19/01	EPA 6210
Potassium (Total)		2049.03	mg/Kg	11/19/01	EPA 6210
Selenium (Total)	<	5.00	mg/Kg	11/19/01	EPA 6210
Silica (Total)		1938.68	mg/Kg	11/19/01	EPA 6210
Silver (Total)		5.42	mg/Kg	11/19/01	EPA 6210
Sodium (Total)		119.64	mg/Kg	11/19/01	EPA 6210
Thallium (Total)	<	5.00	mg/Kg	11/19/01	EPA 6210
Vanadium (Total)		29.38	mg/Kg	11/19/01	EPA 6210
Zinc (Total)		4065.35	mg/Kg	11/20/01	EPA 6210

Reporting Analyst: REH
Date Reported: 11/22/01

< - Not Detected at Indicated Level
* - Holding Time Exceeded

Copies To: File

RECEIVED
NOV 27 2001
BUREAU OF
ENVIRONMENTAL REMEDIATION

DIVISION OF HEALTH & ENVIRONMENTAL LABORATORIES
Kansas Department of Health and Environment
Forbes Field, Bldg. 740, Topeka, Kansas 66620-0001

REPORT OF ANALYSIS

INORGANIC CHEMISTRY

Report To: Bureau of Env. Remediation
Signature Bldg. 4th Floor
ATTN: Randy Brown
Topeka KS 66620

Lab Number: 200855PT

Site ID: 4EM80
Account Code: EP

Collection Location: Cherryvale Residential Yards 506 W. 1st #1

Collector: Randy Brown
Matrix: Soil
Collect Depth:
Date/Time Collected: 10/31/01 13:07
Date/Time Received: 11/09/01 13:28

Sample Comments:

Parameter		Analytical Result	Units	Analysis Date	Analytical Method
Aluminum (Total)		30026.28	mg/Kg	11/19/01	EPA 6010
Antimony (Total)	<	5.00	mg/Kg	11/19/01	EPA 6010
Arsenic (Total)		24.01	mg/Kg	11/19/01	EPA 6010
Barium (Total)		231.11	mg/Kg	11/19/01	EPA 6010
Beryllium (Total)		0.64	mg/Kg	11/19/01	EPA 6010
Boron (Total)		14.03	mg/Kg	11/19/01	EPA 6010
Cadmium (Total)		11.23	mg/Kg	11/19/01	EPA 6010
Calcium (Total)		26857.54	mg/Kg	11/19/01	EPA 6010
Chromium (Total)		28.56	mg/Kg	11/19/01	EPA 6010
Cobalt (Total)		10.95	mg/Kg	11/19/01	EPA 6010
Copper (Total)		274.51	mg/Kg	11/19/01	EPA 6010
Iron (Total)		29954.04	mg/Kg	11/19/01	EPA 6010
Lead (Total)		600.36	mg/Kg	11/19/01	EPA 6010
Magnesium (Total)		2264.06	mg/Kg	11/19/01	EPA 6010
Manganese (Total)		1620.54	mg/Kg	11/20/01	EPA 6010
Molybdenum (Total)	<	2.00	mg/Kg	11/19/01	EPA 6210
Nickel (Total)		27.36	mg/Kg	11/19/01	EPA 6210
Potassium (Total)		3837.01	mg/Kg	11/19/01	EPA 6210
Selenium (Total)	<	5.00	mg/Kg	11/19/01	EPA 6210
Silica (Total)		2284.96	mg/Kg	11/19/01	EPA 6210
Silver (Total)		1.96	mg/Kg	11/19/01	EPA 6210
Sodium (Total)		128.29	mg/Kg	11/19/01	EPA 6210
Thallium (Total)	<	5.00	mg/Kg	11/19/01	EPA 6210
Vanadium (Total)		51.59	mg/Kg	11/19/01	EPA 6210
Zinc (Total)		5178.96	mg/Kg	11/20/01	EPA 6210

Reporting Analyst: REH
Date Reported: 11/22/01

< - Not Detected at Indicated Level
* - Holding Time Exceeded

Copies To: File

RECEIVED
NOV 27 2001
BUREAU OF
ENVIRONMENTAL REMEDIATION

DIVISION OF HEALTH & ENVIRONMENTAL LABORATORIES
Kansas Department of Health and Environment
Forbes Field, Bldg. 740, Topeka, Kansas 66620-0001

REPORT OF ANALYSIS

INORGANIC CHEMISTRY

Report To: Bureau of Env. Remediation
Signature Bldg. 4th Floor
ATTN: Randy Brown
Topeka KS 66620

Lab Number: 200854PT

Site ID: 4EM80
Account Code: EP

Collection Location: Cherryvale Residential Yards 532 W. 1st #3

Collector: Randy Brown
Matrix: Soil
Collect Depth:
Date/Time Collected: 10/31/01 13:15
Date/Time Received: 11/09/01 13:27

Sample Comments:

Parameter		Analytical Result	Units	Analysis Date	Analytical Method
Aluminum (Total)		18124.45	mg/Kg	11/19/01	EPA 6010
Antimony (Total)	<	5.00	mg/Kg	11/19/01	EPA 6010
Arsenic (Total)		28.18	mg/Kg	11/19/01	EPA 6010
Barium (Total)		446.33	mg/Kg	11/19/01	EPA 6010
Beryllium (Total)		0.66	mg/Kg	11/19/01	EPA 6010
Boron (Total)		12.81	mg/Kg	11/19/01	EPA 6010
Cadmium (Total)		30.46	mg/Kg	11/19/01	EPA 6010
Calcium (Total)		11703.46	mg/Kg	11/19/01	EPA 6010
Chromium (Total)		31.46	mg/Kg	11/19/01	EPA 6010
Cobalt (Total)		8.92	mg/Kg	11/19/01	EPA 6010
Copper (Total)		373.95	mg/Kg	11/19/01	EPA 6010
Iron (Total)		27757.28	mg/Kg	11/19/01	EPA 6010
Lead (Total)		1493.79	mg/Kg	11/19/01	EPA 6010
Magnesium (Total)		1418.87	mg/Kg	11/19/01	EPA 6010
Manganese (Total)		1283.62	mg/Kg	11/20/01	EPA 6010
Molybdenum (Total)	<	2.00	mg/Kg	11/19/01	EPA 6210
Nickel (Total)		25.56	mg/Kg	11/19/01	EPA 6210
Potassium (Total)		2907.13	mg/Kg	11/19/01	EPA 6210
Selenium (Total)	<	5.00	mg/Kg	11/19/01	EPA 6210
Silica (Total)		2089.57	mg/Kg	11/19/01	EPA 6210
Silver (Total)		4.34	mg/Kg	11/19/01	EPA 6210
Sodium (Total)		133.48	mg/Kg	11/19/01	EPA 6210
Thallium (Total)	<	5.00	mg/Kg	11/19/01	EPA 6210
Vanadium (Total)		36.43	mg/Kg	11/19/01	EPA 6210
Zinc (Total)		7703.39	mg/Kg	11/20/01	EPA 6210

Reporting Analyst: REH
Date Reported: 11/22/01

< - Not Detected at Indicated Level
* - Holding Time Exceeded

Copies To: File

RECEIVED
NOV 27 2001
BUREAU OF
ENVIRONMENTAL REMEDIATION

DIVISION OF HEALTH & ENVIRONMENTAL LABORATORIES
Kansas Department of Health and Environment
Forbes Field, Bldg. 740, Topeka, Kansas 66620-0001

REPORT OF ANALYSIS

INORGANIC CHEMISTRY

Report To: Bureau of Env. Remediation
Signature Bldg. 4th Floor
ATTN: Randy Brown
Topeka KS 66620

Lab Number: 200853PT

Site ID: 4EM80
Account Code: EP

Collection Location: Cherryvale Residential Yards 527 W. 1st

Collector: Randy Brown
Matrix: Soil
Collect Depth:
Date/Time Collected: 10/31/01 14:00
Date/Time Received: 11/09/01 13:27

Sample Comments:

Parameter		Analytical Result	Units	Analysis Date	Analytical Method
Aluminum (Total)		16963.25	mg/Kg	11/20/01	EPA 6010
Antimony (Total)	<	5.00	mg/Kg	11/20/01	EPA 6010
Arsenic (Total)		16.80	mg/Kg	11/20/01	EPA 6010
Barium (Total)		247.07	mg/Kg	11/20/01	EPA 6010
Beryllium (Total)		0.50	mg/Kg	11/20/01	EPA 6010
Boron (Total)		12.65	mg/Kg	11/20/01	EPA 6010
Cadmium (Total)		22.29	mg/Kg	11/20/01	EPA 6010
Calcium (Total)		9975.46	mg/Kg	11/20/01	EPA 6010
Chromium (Total)		27.14	mg/Kg	11/20/01	EPA 6010
Cobalt (Total)		9.35	mg/Kg	11/20/01	EPA 6010
Copper (Total)		203.76	mg/Kg	11/20/01	EPA 6010
Iron (Total)		25947.28	mg/Kg	11/20/01	EPA 6010
Lead (Total)		911.66	mg/Kg	11/20/01	EPA 6010
Magnesium (Total)		1515.22	mg/Kg	11/20/01	EPA 6010
Manganese (Total)		1341.45	mg/Kg	11/20/01	EPA 6010
Molybdenum (Total)	<	2.00	mg/Kg	11/20/01	EPA 6210
Nickel (Total)		22.66	mg/Kg	11/20/01	EPA 6210
Potassium (Total)		3234.21	mg/Kg	11/20/01	EPA 6210
Selenium (Total)	<	5.00	mg/Kg	11/20/01	EPA 6210
Silica (Total)		2250.59	mg/Kg	11/20/01	EPA 6210
Silver (Total)		1.76	mg/Kg	11/20/01	EPA 6210
Sodium (Total)		80.10	mg/Kg	11/20/01	EPA 6210
Thallium (Total)	<	5.00	mg/Kg	11/20/01	EPA 6210
Vanadium (Total)		34.75	mg/Kg	11/20/01	EPA 6210
Zinc (Total)		3493.05	mg/Kg	11/20/01	EPA 6210

Reporting Analyst: REH
Date Reported: 11/22/01

< - Not Detected at Indicated Level
* - Holding Time Exceeded

Copies To: File

RECEIVED
NOV 27 2001
BUREAU OF
ENVIRONMENTAL REMEDIATION

DIVISION OF HEALTH & ENVIRONMENTAL LABORATORIES
Kansas Department of Health and Environment
Forbes Field, Bldg. 740, Topeka, Kansas 66620-0001

REPORT OF ANALYSIS

INORGANIC CHEMISTRY

Report To: Bureau of Env. Remediation
Signature Bldg. 4th Floor
ATTN: Randy Brown
Topeka KS 66620

Lab Number: 200852PT

Site ID: 4EM80
Account Code: EP

Collection Location: Cherryvale Residential Yards 511 W. 1st

Collector: Randy Brown
Matrix: Soil
Collect Depth:
Date/Time Collected: 10/31/01 13:35
Date/Time Received: 11/09/01 13:27

Sample Comments:

Parameter		Analytical Result	Units	Analysis Date	Analytical Method
Aluminum (Total)		11313.19	mg/Kg	11/20/01	EPA 6010
Antimony (Total)	<	5.00	mg/Kg	11/20/01	EPA 6010
Arsenic (Total)		27.70	mg/Kg	11/20/01	EPA 6010
Barium (Total)		167.94	mg/Kg	11/20/01	EPA 6010
Beryllium (Total)		0.40	mg/Kg	11/20/01	EPA 6010
Boron (Total)		10.97	mg/Kg	11/20/01	EPA 6010
Cadmium (Total)		19.66	mg/Kg	11/20/01	EPA 6010
Calcium (Total)		60132.82	mg/Kg	11/20/01	EPA 6010
Chromium (Total)		15.03	mg/Kg	11/20/01	EPA 6010
Cobalt (Total)		9.70	mg/Kg	11/20/01	EPA 6010
Copper (Total)		348.76	mg/Kg	11/20/01	EPA 6010
Iron (Total)		18550.09	mg/Kg	11/20/01	EPA 6010
Lead (Total)		1181.53	mg/Kg	11/20/01	EPA 6010
Magnesium (Total)		2535.71	mg/Kg	11/20/01	EPA 6010
Manganese (Total)		1195.90	mg/Kg	11/20/01	EPA 6010
Molybdenum (Total)	<	2.00	mg/Kg	11/20/01	EPA 6210
Nickel (Total)		21.88	mg/Kg	11/20/01	EPA 6210
Potassium (Total)		1801.93	mg/Kg	11/20/01	EPA 6210
Selenium (Total)	<	5.00	mg/Kg	11/20/01	EPA 6210
Silica (Total)		2263.78	mg/Kg	11/20/01	EPA 6210
Silver (Total)		4.00	mg/Kg	11/20/01	EPA 6210
Sodium (Total)		84.76	mg/Kg	11/20/01	EPA 6210
Thallium (Total)	<	5.00	mg/Kg	11/20/01	EPA 6210
Vanadium (Total)		25.07	mg/Kg	11/20/01	EPA 6210
Zinc (Total)		4266.31	mg/Kg	11/20/01	EPA 6210

Reporting Analyst: REH
Date Reported: 11/22/01

< - Not Detected at Indicated Level
* - Holding Time Exceeded

Copies To: File

RECEIVED
NOV 27 2001
BUREAU OF
ENVIRONMENTAL REMEDIATION

Environmental Laboratories
Inorganic Chemistry (785) 296-1657
Organic Chemistry (785) 296-1647
Radiochemistry (785) 296-1629
Env. Microbiology (785) 296-0971

Roger H. Carlson, Ph.D., Director - (785) 296-1620
Laboratory Information and Reporting - (785) 296-1627
Laboratory Fax - (785) 296-1641

Health Laboratories
Diagnostic Micro. (785) 296-1636
Neonatal Screening (785) 296-1651
Serology (785) 296-1653
Virology (785) 296-1645

DIVISION OF HEALTH & ENVIRONMENTAL LABORATORIES
Kansas Department of Health and Environment
Forbes Field, Bldg. 740, Topeka, Kansas 66620-0001

REPORT OF ANALYSIS

INORGANIC CHEMISTRY

Report To: Bureau of Env. Remediation
Signature Bldg. 4th Floor
ATTN: Randy Brown
Topeka KS 66620

Lab Number: 200851PT

4EM80
Site ID:
Account Code: EP

Collection Location: Cherryvale Residential Yards 635 W. 1st

Collector: Randy Brown
Matrix: Soil
Collect Depth:
Date/Time Collected: 11/08/01 12:25
Date/Time Received: 11/09/01 13:27

Sample Comments:

Parameter		Analytical Result	Units	Analysis Date	Analytical Method
Aluminum (Total)		12746.16	mg/Kg	11/20/01	EPA 6010
Antimony (Total)	<	5.00	mg/Kg	11/20/01	EPA 6010
Arsenic (Total)		12.83	mg/Kg	11/20/01	EPA 6010
Barium (Total)		446.01	mg/Kg	11/20/01	EPA 6010
Beryllium (Total)		0.36	mg/Kg	11/20/01	EPA 6010
Boron (Total)		10.17	mg/Kg	11/20/01	EPA 6010
Cadmium (Total)		26.69	mg/Kg	11/20/01	EPA 6010
Calcium (Total)		9522.97	mg/Kg	11/20/01	EPA 6010
Chromium (Total)		13.44	mg/Kg	11/20/01	EPA 6010
Cobalt (Total)		9.81	mg/Kg	11/20/01	EPA 6010
Copper (Total)		295.69	mg/Kg	11/20/01	EPA 6010
Iron (Total)		21550.55	mg/Kg	11/20/01	EPA 6010
Lead (Total)		735.40	mg/Kg	11/20/01	EPA 6010
Magnesium (Total)		1217.79	mg/Kg	11/20/01	EPA 6010
Manganese (Total)		531.50	mg/Kg	11/20/01	EPA 6010
Molybdenum (Total)	<	2.00	mg/Kg	11/20/01	EPA 6210
Nickel (Total)		20.95	mg/Kg	11/20/01	EPA 6210
Potassium (Total)		1867.35	mg/Kg	11/20/01	EPA 6210
Selenium (Total)	<	5.00	mg/Kg	11/20/01	EPA 6210
Silica (Total)		2034.98	mg/Kg	11/20/01	EPA 6210
Silver (Total)	<	1.00	mg/Kg	11/20/01	EPA 6210
Sodium (Total)		205.75	mg/Kg	11/20/01	EPA 6210
Thallium (Total)	<	5.00	mg/Kg	11/20/01	EPA 6210
Vanadium (Total)		26.34	mg/Kg	11/20/01	EPA 6210
Zinc (Total)		21639.83	mg/Kg	11/20/01	EPA 6210

Reporting Analyst: REH
Date Reported: 11/22/01

< - Not Detected at Indicated Level
* - Holding Time Exceeded

Copies To: File

RECEIVED
NOV 27 2001
BUREAU OF
ENVIRONMENTAL REMEDIATION

Environmental Laboratories
Inorganic Chemistry (785) 296-1657
Organic Chemistry (785) 296-1647
Radiochemistry (785) 296-1629
Env. Microbiology (785) 296-0971

Roger H. Carlson, Ph.D., Director - (785) 296-1620
Laboratory Information and Reporting - (785) 296-1627
Laboratory Fax - (785) 296-1641

Health Laboratories
Diagnostic Micro. (785) 296-1636
Neonatal Screening (785) 296-1651
Serology (785) 296-1653
Virology (785) 296-1645

DIVISION OF HEALTH & ENVIRONMENTAL LABORATORIES
Kansas Department of Health and Environment
Forbes Field, Bldg. 740, Topeka, Kansas 66620-0001

REPORT OF ANALYSIS

INORGANIC CHEMISTRY

Report To: Bureau of Env. Remediation
Signature Bldg. 4th Floor
ATTN: Randy Brown
Topeka KS 66620

Lab Number: 200850PT

Site ID: 4EM80
Account Code: EP

Collection Location: Cherryvale Residential Yards 614 W. 2nd

Collector: Randy Brown
Matrix: Soil
Collect Depth:
Date/Time Collected: 11/08/01 14:05
Date/Time Received: 11/09/01 13:19

Sample Comments:

Parameter		Analytical Result	Units	Analysis Date	Analytical Method
Aluminum (Total)		10321.02	mg/Kg	11/20/01	EPA 6010
Antimony (Total)	<	5.00	mg/Kg	11/20/01	EPA 6010
Arsenic (Total)		5.04	mg/Kg	11/20/01	EPA 6010
Barium (Total)		85.57	mg/Kg	11/20/01	EPA 6010
Beryllium (Total)		0.33	mg/Kg	11/20/01	EPA 6010
Boron (Total)		5.64	mg/Kg	11/20/01	EPA 6010
Cadmium (Total)		2.29	mg/Kg	11/20/01	EPA 6010
Calcium (Total)		2911.88	mg/Kg	11/20/01	EPA 6010
Chromium (Total)		13.22	mg/Kg	11/20/01	EPA 6010
Cobalt (Total)		4.78	mg/Kg	11/20/01	EPA 6010
Copper (Total)		20.88	mg/Kg	11/20/01	EPA 6010
Iron (Total)		10294.17	mg/Kg	11/20/01	EPA 6010
Lead (Total)		50.68	mg/Kg	11/20/01	EPA 6010
Magnesium (Total)		1041.32	mg/Kg	11/20/01	EPA 6010
Manganese (Total)		384.34	mg/Kg	11/20/01	EPA 6010
Molybdenum (Total)	<	2.00	mg/Kg	11/20/01	EPA 6210
Nickel (Total)		12.46	mg/Kg	11/20/01	EPA 6210
Potassium (Total)		1928.76	mg/Kg	11/20/01	EPA 6210
Selenium (Total)	<	5.00	mg/Kg	11/20/01	EPA 6210
Silica (Total)		2403.16	mg/Kg	11/20/01	EPA 6210
Silver (Total)		9.42	mg/Kg	11/20/01	EPA 6210
Sodium (Total)		45.36	mg/Kg	11/20/01	EPA 6210
Thallium (Total)	<	5.00	mg/Kg	11/20/01	EPA 6210
Vanadium (Total)		22.45	mg/Kg	11/20/01	EPA 6210
Zinc (Total)		322.99	mg/Kg	11/20/01	EPA 6210

Reporting Analyst: REH
Date Reported: 11/22/01

< - Not Detected at Indicated Level
* - Holding Time Exceeded

Copies To: File

RECEIVED
NOV 27 2001
BUREAU OF
ENVIRONMENTAL REMEDIATION

DIVISION OF HEALTH & ENVIRONMENTAL LABORATORIES
Kansas Department of Health and Environment
Forbes Field, Bldg. 740, Topeka, Kansas 66620-0001

REPORT OF ANALYSIS

INORGANIC CHEMISTRY

Report To: Bureau of Env. Remediation
Signature Bldg. 4th Floor
ATTN: Randy Brown
Topeka KS 66620

Lab Number: 200849PT

Site ID: 4EM80
Account Code: EP

Collection Location: Cherryvale Residential Yards 640 W. 2nd

Collector: Randy Brown
Matrix: Soil
Collect Depth:
Date/Time Collected: 11/08/01 13:40
Date/Time Received: 11/09/01 13:19

Sample Comments:

Parameter		Analytical Result	Units	Analysis Date	Analytical Method
Aluminum (Total)		16699.91	mg/Kg	11/20/01	EPA 6010
Antimony (Total)	<	5.00	mg/Kg	11/20/01	EPA 6010
Arsenic (Total)		8.83	mg/Kg	11/20/01	EPA 6010
Barium (Total)		134.41	mg/Kg	11/20/01	EPA 6010
Beryllium (Total)		0.40	mg/Kg	11/20/01	EPA 6010
Boron (Total)		11.03	mg/Kg	11/20/01	EPA 6010
Cadmium (Total)		8.79	mg/Kg	11/20/01	EPA 6010
Calcium (Total)		13786.89	mg/Kg	11/20/01	EPA 6010
Chromium (Total)		16.00	mg/Kg	11/20/01	EPA 6010
Cobalt (Total)		5.06	mg/Kg	11/20/01	EPA 6010
Copper (Total)		117.61	mg/Kg	11/20/01	EPA 6010
Iron (Total)		14251.04	mg/Kg	11/20/01	EPA 6010
Lead (Total)		211.05	mg/Kg	11/20/01	EPA 6010
Magnesium (Total)		1848.15	mg/Kg	11/20/01	EPA 6010
Manganese (Total)		404.32	mg/Kg	11/20/01	EPA 6010
Molybdenum (Total)	<	2.00	mg/Kg	11/20/01	EPA 6210
Nickel (Total)		14.15	mg/Kg	11/20/01	EPA 6210
Potassium (Total)		2910.77	mg/Kg	11/20/01	EPA 6210
Selenium (Total)	<	5.00	mg/Kg	11/20/01	EPA 6210
Silica (Total)		2439.08	mg/Kg	11/20/01	EPA 6210
Silver (Total)	<	1.00	mg/Kg	11/20/01	EPA 6210
Sodium (Total)		66.45	mg/Kg	11/20/01	EPA 6210
Thallium (Total)	<	5.00	mg/Kg	11/20/01	EPA 6210
Vanadium (Total)		28.45	mg/Kg	11/20/01	EPA 6210
Zinc (Total)		1781.90	mg/Kg	11/20/01	EPA 6210

Reporting Analyst: REH
Date Reported: 11/22/01

< - Not Detected at Indicated Level
* - Holding Time Exceeded

Copies To: File

RECEIVED
NOV 27 2001
BUREAU OF
ENVIRONMENTAL REMEDIATION

Environmental Laboratories
Inorganic Chemistry (785) 296-1657
Organic Chemistry (785) 296-1647
Radiochemistry (785) 296-1629
Env. Microbiology (785) 296-0971

Roger H. Carlson, Ph.D., Director - (785) 296-1620
Laboratory Information and Reporting - (785) 296-1627
Laboratory Fax - (785) 296-1641

Health Laboratories
Diagnostic Micro. (785) 296-1636
Neonatal Screening (785) 296-1651
Serology (785) 296-1653
Virology (785) 296-1645

DIVISION OF HEALTH & ENVIRONMENTAL LABORATORIES
Kansas Department of Health and Environment
Forbes Field, Bldg. 740, Topeka, Kansas 66620-0001

REPORT OF ANALYSIS

INORGANIC CHEMISTRY

Report To: Bureau of Env. Remediation
Signature Bldg. 4th Floor
ATTN: Randy Brown
Topeka KS 66620

Lab Number: 200848PT

4EM80

Site ID:
Account Code: EP

Collection Location: Cherryvale Residential Yards 604 W. 2nd

Collector: Randy Brown
Matrix: Soil
Collect Depth:
Date/Time Collected: 11/08/01 14:30
Date/Time Received: 11/09/01 13:19

Sample Comments:

Parameter		Analytical Result	Units	Analysis Date	Analytical Method
Aluminum (Total)		13424.57	mg/Kg	11/20/01	EPA 6010
Antimony (Total)	<	5.00	mg/Kg	11/20/01	EPA 6010
Arsenic (Total)		6.03	mg/Kg	11/20/01	EPA 6010
Barium (Total)		125.34	mg/Kg	11/20/01	EPA 6010
Beryllium (Total)		0.33	mg/Kg	11/20/01	EPA 6010
Boron (Total)		12.79	mg/Kg	11/20/01	EPA 6010
Cadmium (Total)		5.55	mg/Kg	11/20/01	EPA 6010
Calcium (Total)		13874.29	mg/Kg	11/20/01	EPA 6010
Chromium (Total)		13.47	mg/Kg	11/20/01	EPA 6010
Cobalt (Total)		4.06	mg/Kg	11/20/01	EPA 6010
Copper (Total)		58.80	mg/Kg	11/20/01	EPA 6010
Iron (Total)		12606.45	mg/Kg	11/20/01	EPA 6010
Lead (Total)		143.94	mg/Kg	11/20/01	EPA 6010
Magnesium (Total)		1606.70	mg/Kg	11/20/01	EPA 6010
Manganese (Total)		540.92	mg/Kg	11/20/01	EPA 6010
Molybdenum (Total)	<	2.00	mg/Kg	11/20/01	EPA 6210
Nickel (Total)		15.72	mg/Kg	11/20/01	EPA 6210
Potassium (Total)		2313.99	mg/Kg	11/20/01	EPA 6210
Selenium (Total)	<	5.00	mg/Kg	11/20/01	EPA 6210
Silica (Total)		2304.37	mg/Kg	11/20/01	EPA 6210
Silver (Total)	<	1.00	mg/Kg	11/20/01	EPA 6210
Sodium (Total)		58.08	mg/Kg	11/20/01	EPA 6210
Thallium (Total)	<	5.00	mg/Kg	11/20/01	EPA 6210
Vanadium (Total)		25.20	mg/Kg	11/20/01	EPA 6210
Zinc (Total)		1098.03	mg/Kg	11/20/01	EPA 6210

Reporting Analyst: REH
Date Reported: 11/22/01

< - Not Detected at Indicated Level
* - Holding Time Exceeded

Copies To: File

RECEIVED
NOV 27 2001
BUREAU OF
ENVIRONMENTAL REMEDIATION

DIVISION OF HEALTH & ENVIRONMENTAL LABORATORIES
Kansas Department of Health and Environment
Forbes Field, Bldg. 740, Topeka, Kansas 66620-0001

REPORT OF ANALYSIS

INORGANIC CHEMISTRY

Report To: Bureau of Env. Remediation
Signature Bldg. 4th Floor
ATTN: Randy Brown
Topeka KS 66620

Lab Number: 200847PT

Site ID: 4EM80
Account Code: EP

Collection Location: Cherryvale Residential Yards 612 W. 2nd

Collector: Randy Brown
Matrix: Soil
Collect Depth:
Date/Time Collected: 11/08/01 14:20
Date/Time Received: 11/09/01 13:19

Sample Comments:

Parameter		Analytical Result	Units	Analysis Date	Analytical Method
Aluminum (Total)		23361.71	mg/Kg	11/20/01	EPA 6010
Antimony (Total)	<	5.00	mg/Kg	11/20/01	EPA 6010
Arsenic (Total)		9.57	mg/Kg	11/20/01	EPA 6010
Barium (Total)		197.23	mg/Kg	11/20/01	EPA 6010
Beryllium (Total)		0.75	mg/Kg	11/20/01	EPA 6010
Boron (Total)		10.29	mg/Kg	11/20/01	EPA 6010
Cadmium (Total)		8.26	mg/Kg	11/20/01	EPA 6010
Calcium (Total)		4977.52	mg/Kg	11/20/01	EPA 6010
Chromium (Total)		24.16	mg/Kg	11/20/01	EPA 6010
Cobalt (Total)		6.06	mg/Kg	11/20/01	EPA 6010
Copper (Total)		74.38	mg/Kg	11/20/01	EPA 6010
Iron (Total)		19847.14	mg/Kg	11/20/01	EPA 6010
Lead (Total)		250.83	mg/Kg	11/20/01	EPA 6010
Magnesium (Total)		1833.01	mg/Kg	11/20/01	EPA 6010
Manganese (Total)		739.26	mg/Kg	11/20/01	EPA 6010
Molybdenum (Total)	<	2.00	mg/Kg	11/20/01	EPA 6210
Nickel (Total)		19.57	mg/Kg	11/20/01	EPA 6210
Potassium (Total)		3633.83	mg/Kg	11/20/01	EPA 6210
Selenium (Total)	<	5.00	mg/Kg	11/20/01	EPA 6210
Silica (Total)		2246.07	mg/Kg	11/20/01	EPA 6210
Silver (Total)	<	1.00	mg/Kg	11/20/01	EPA 6210
Sodium (Total)		75.93	mg/Kg	11/20/01	EPA 6210
Thallium (Total)	<	5.00	mg/Kg	11/20/01	EPA 6210
Vanadium (Total)		40.70	mg/Kg	11/20/01	EPA 6210
Zinc (Total)		1309.69	mg/Kg	11/20/01	EPA 6210

Reporting Analyst: REH
Date Reported: 11/22/01

< - Not Detected at Indicated Level
* - Holding Time Exceeded

Copies To: File

RECEIVED
NOV 27 2001
BUREAU OF ENVIRONMENTAL REMEDIATION

DIVISION OF HEALTH & ENVIRONMENTAL LABORATORIES
Kansas Department of Health and Environment
Forbes Field, Bldg. 740, Topeka, Kansas 66620-0001

REPORT OF ANALYSIS

INORGANIC CHEMISTRY

Report To: Bureau of Env. Remediation
Signature Bldg. 4th Floor
ATTN: Randy Brown
Topeka KS 66620

Lab Number: 200846PT

Site ID: 4EM80
Account Code: EP

Collection Location: Cherryvale Residential Yards Vacant Lot SIS1527

Collector: Randy Brown
Matrix: Soil
Collect Depth:
Date/Time Collected: 11/08/01 12:15
Date/Time Received: 11/09/01 13:19

Sample Comments:

Parameter		Analytical Result	Units	Analysis Date	Analytical Method
Aluminum (Total)		15581.49	mg/Kg	11/20/01	EPA 6010
Antimony (Total)	<	5.00	mg/Kg	11/20/01	EPA 6010
Arsenic (Total)		14.85	mg/Kg	11/20/01	EPA 6010
Barium (Total)		347.04	mg/Kg	11/20/01	EPA 6010
Beryllium (Total)		0.38	mg/Kg	11/20/01	EPA 6010
Boron (Total)		20.04	mg/Kg	11/20/01	EPA 6010
Cadmium (Total)		14.37	mg/Kg	11/20/01	EPA 6010
Calcium (Total)		15797.74	mg/Kg	11/20/01	EPA 6010
Chromium (Total)		26.13	mg/Kg	11/20/01	EPA 6010
Cobalt (Total)		7.49	mg/Kg	11/20/01	EPA 6010
Copper (Total)		167.80	mg/Kg	11/20/01	EPA 6010
Iron (Total)		28209.55	mg/Kg	11/20/01	EPA 6010
Lead (Total)		612.48	mg/Kg	11/20/01	EPA 6010
Magnesium (Total)		1675.59	mg/Kg	11/20/01	EPA 6010
Manganese (Total)		1246.63	mg/Kg	11/20/01	EPA 6010
Molybdenum (Total)	<	2.00	mg/Kg	11/20/01	EPA 6210
Nickel (Total)		18.45	mg/Kg	11/20/01	EPA 6210
Potassium (Total)		4150.59	mg/Kg	11/20/01	EPA 6210
Selenium (Total)	<	5.00	mg/Kg	11/20/01	EPA 6210
Silica (Total)		1943.45	mg/Kg	11/20/01	EPA 6210
Silver (Total)		1.33	mg/Kg	11/20/01	EPA 6210
Sodium (Total)		116.65	mg/Kg	11/20/01	EPA 6210
Thallium (Total)	<	5.00	mg/Kg	11/20/01	EPA 6210
Vanadium (Total)		27.85	mg/Kg	11/20/01	EPA 6210
Zinc (Total)		3323.36	mg/Kg	11/20/01	EPA 6210

Reporting Analyst: REH
Date Reported: 11/22/01

< - Not Detected at Indicated Level
* - Holding Time Exceeded

Copies To: File

RECEIVED
NOV 27 2001
BUREAU OF
ENVIRONMENTAL REMEDIATION

DIVISION OF HEALTH & ENVIRONMENTAL LABORATORIES
Kansas Department of Health and Environment
Forbes Field, Bldg. 740, Topeka, Kansas 66620-0001

REPORT OF ANALYSIS

RECEIVED
DEC 06 2001
BUREAU OF ENVIRONMENTAL REMEDIATION

INORGANIC CHEMISTRY

Report To: Bureau of Env. Remediation
Forbes Field, Bldg. 740
Attn: Randy Brown
Topeka KS 66620

Lab Number: 200912PT
4EM80
Site ID:
Account Code: EP

Collection Location: Cherryvale Yards, 524 W. 2nd

Collector: Randy Brown-BER
Matrix: Soil
Collect Depth:
Date/Time Collected: 11/15/01 11:30
Date/Time Received: 11/19/01 10:50

Sample Comments: Needs results by 12-01-01

Parameter		Analytical Result	Units	Analysis Date	Analytical Method
Aluminum (Total)		16687.64	mg/Kg	11/29/01	EPA 6010
Antimony (Total)	<	5.00	mg/Kg	11/29/01	EPA 6010
Arsenic (Total)		27.38	mg/Kg	11/29/01	EPA 6010
Barium (Total)		217.76	mg/Kg	11/29/01	EPA 6010
Beryllium (Total)		0.36	mg/Kg	11/29/01	EPA 6010
Boron (Total)		10.09	mg/Kg	11/29/01	EPA 6010
Cadmium (Total)		23.91	mg/Kg	11/29/01	EPA 6010
Calcium (Total)		8693.63	mg/Kg	11/29/01	EPA 6010
Chromium (Total)		18.28	mg/Kg	11/29/01	EPA 6010
Cobalt (Total)		9.47	mg/Kg	11/29/01	EPA 6010
Copper (Total)		360.12	mg/Kg	11/29/01	EPA 6010
Iron (Total)		20914.38	mg/Kg	11/29/01	EPA 6010
Lead (Total)		1012.93	mg/Kg	11/29/01	EPA 6010
Magnesium (Total)		1401.94	mg/Kg	11/29/01	EPA 6010
Manganese (Total)		1031.64	mg/Kg	11/30/01	EPA 6010
Molybdenum (Total)	<	2.00	mg/Kg	11/29/01	EPA 6210
Nickel (Total)		18.28	mg/Kg	11/29/01	EPA 6210
Potassium (Total)		2706.68	mg/Kg	11/29/01	EPA 6210
Selenium (Total)	<	5.00	mg/Kg	11/29/01	EPA 6210
Silica (Total)		2720.17	mg/Kg	11/29/01	EPA 6210
Silver (Total)		2.92	mg/Kg	11/29/01	EPA 6210
Sodium (Total)		444.45	mg/Kg	11/29/01	EPA 6210
Thallium (Total)	<	5.00	mg/Kg	11/29/01	EPA 6210
Vanadium (Total)		29.42	mg/Kg	11/29/01	EPA 6210
Zinc (Total)		3501.30	mg/Kg	11/30/01	EPA 6210

Reporting Analyst: REH
Date Reported: 12/05/01

< - Not Detected at Indicated Level
* - Holding Time Exceeded

Copies To: File

DIVISION OF HEALTH & ENVIRONMENTAL LABORATORIES
Kansas Department of Health and Environment
Forbes Field, Bldg. 740, Topeka, Kansas 66620-0001

REPORT OF ANALYSIS

RECEIVED
DEC 0 6 2001
BUREAU OF ENVIRONMENTAL REMEDIATION

INORGANIC CHEMISTRY

Report To: Bureau of Env. Remediation
Forbes Field, Bldg. 740
Attn: Randy Brown
Topeka KS 66620

Lab Number: 200918PT

Site ID: 4EM80
Account Code: EP

Collection Location: Cherryvale Yards, 638 W. 1st #7

Collector: Randy Brown-BER
Matrix: Soil
Collect Depth:
Date/Time Collected: 11/15/01 13:15
Date/Time Received: 11/19/01 10:50

Sample Comments: Needs results by 12-01-01

Parameter		Analytical Result	Units	Analysis Date	Analytical Method
Aluminum (Total)		15881.35	mg/Kg	11/29/01	EPA 6010
Antimony (Total)	<	5.00	mg/Kg	11/29/01	EPA 6010
Arsenic (Total)		13.03	mg/Kg	11/29/01	EPA 6010
Barium (Total)		190.37	mg/Kg	11/29/01	EPA 6010
Beryllium (Total)		0.34	mg/Kg	11/29/01	EPA 6010
Boron (Total)		11.27	mg/Kg	11/29/01	EPA 6010
Cadmium (Total)		22.82	mg/Kg	11/29/01	EPA 6010
Calcium (Total)		6848.74	mg/Kg	11/29/01	EPA 6010
Chromium (Total)		24.93	mg/Kg	11/29/01	EPA 6010
Cobalt (Total)		6.71	mg/Kg	11/29/01	EPA 6010
Copper (Total)		176.29	mg/Kg	11/29/01	EPA 6010
Iron (Total)		21683.55	mg/Kg	11/29/01	EPA 6010
Lead (Total)		1040.13	mg/Kg	11/29/01	EPA 6010
Magnesium (Total)		1437.67	mg/Kg	11/29/01	EPA 6010
Manganese (Total)		562.08	mg/Kg	11/29/01	EPA 6010
Molybdenum (Total)	<	2.00	mg/Kg	11/29/01	EPA 6210
Nickel (Total)		20.36	mg/Kg	11/29/01	EPA 6210
Potassium (Total)		2239.26	mg/Kg	11/29/01	EPA 6210
Selenium (Total)	<	5.00	mg/Kg	11/29/01	EPA 6210
Silica (Total)		2996.23	mg/Kg	11/29/01	EPA 6210
Silver (Total)	<	1.00	mg/Kg	11/29/01	EPA 6210
Sodium (Total)		116.80	mg/Kg	11/29/01	EPA 6210
Thallium (Total)	<	5.00	mg/Kg	11/29/01	EPA 6210
Vanadium (Total)		32.22	mg/Kg	11/29/01	EPA 6210
Zinc (Total)		3487.05	mg/Kg	11/30/01	EPA 6210

Reporting Analyst: REH
Date Reported: 12/05/01

< - Not Detected at Indicated Level
* - Holding Time Exceeded

Copies To: File

DIVISION OF HEALTH & ENVIRONMENTAL LABORATORIES
Kansas Department of Health and Environment
Forbes Field, Bldg. 740, Topeka, Kansas 66620-0001

REPORT OF ANALYSIS

RECEIVED
DEC 06 2001
BUREAU OF ENVIRONMENTAL REMEDIATION

INORGANIC CHEMISTRY

Report To: Bureau of Env. Remediation
Forbes Field, Bldg. 740
Attn: Randy Brown
Topeka KS 66620

Lab Number: 200917PT

Site ID: 4EM80
Account Code: EP

Collection Location: Cherryvale Yards, 638 W. 1st #5

Collector: Randy Brown-BER
Matrix: Soil
Collect Depth:
Date/Time Collected: 11/15/01 13:08
Date/Time Received: 11/19/01 10:50

Sample Comments: Needs results by 12-01-01

Parameter		Analytical Result	Units	Analysis Date	Analytical Method
Aluminum (Total)		12284.41	mg/Kg	11/29/01	EPA 6010
Antimony (Total)	<	5.00	mg/Kg	11/29/01	EPA 6010
Arsenic (Total)		9.90	mg/Kg	11/29/01	EPA 6010
Barium (Total)		183.62	mg/Kg	11/29/01	EPA 6010
Beryllium (Total)		0.25	mg/Kg	11/29/01	EPA 6010
Boron (Total)		10.74	mg/Kg	11/29/01	EPA 6010
Cadmium (Total)		12.79	mg/Kg	11/29/01	EPA 6010
Calcium (Total)		10920.57	mg/Kg	11/29/01	EPA 6010
Chromium (Total)		16.22	mg/Kg	11/29/01	EPA 6010
Cobalt (Total)		5.22	mg/Kg	11/29/01	EPA 6010
Copper (Total)		102.60	mg/Kg	11/29/01	EPA 6010
Iron (Total)		14115.37	mg/Kg	11/29/01	EPA 6010
Lead (Total)		442.54	mg/Kg	11/29/01	EPA 6010
Magnesium (Total)		1623.29	mg/Kg	11/29/01	EPA 6010
Manganese (Total)		469.81	mg/Kg	11/29/01	EPA 6010
Molybdenum (Total)	<	2.00	mg/Kg	11/29/01	EPA 6210
Nickel (Total)		11.63	mg/Kg	11/29/01	EPA 6210
Potassium (Total)		2281.69	mg/Kg	11/29/01	EPA 6210
Selenium (Total)	<	5.00	mg/Kg	11/29/01	EPA 6210
Silica (Total)		2536.93	mg/Kg	11/29/01	EPA 6210
Silver (Total)	<	1.00	mg/Kg	11/29/01	EPA 6210
Sodium (Total)		85.28	mg/Kg	11/29/01	EPA 6210
Thallium (Total)	<	5.00	mg/Kg	11/29/01	EPA 6210
Vanadium (Total)		26.48	mg/Kg	11/29/01	EPA 6210
Zinc (Total)		1805.22	mg/Kg	11/29/01	EPA 6210

Reporting Analyst: REH
Date Reported: 12/05/01

< - Not Detected at Indicated Level
* - Holding Time Exceeded

Copies To: File

DIVISION OF HEALTH & ENVIRONMENTAL LABORATORIES
Kansas Department of Health and Environment
Forbes Field, Bldg. 740, Topeka, Kansas 66620-0001

REPORT OF ANALYSIS

RECEIVED
DEC 06 2001
BUREAU OF ENVIRONMENTAL REMEDIATION

INORGANIC CHEMISTRY

Report To: Bureau of Env. Remediation
Forbes Field, Bldg. 740
Attn: Randy Brown
Topeka KS 66620

Lab Number: 200916PT

Site ID: 4EM80
Account Code: EP

Collection Location: Cherryvale Yards, Empty Lot 1st and School SW

Collector: Randy Brown-BER
Matrix: Soil
Collect Depth:
Date/Time Collected: 11/15/01 12:40
Date/Time Received: 11/19/01 10:50

Sample Comments: Needs results by 12-01-01

Parameter		Analytical Result	Units	Analysis Date	Analytical Method
Aluminum (Total)		19236.62	mg/Kg	11/29/01	EPA 6010
Antimony (Total)	<	5.00	mg/Kg	11/29/01	EPA 6010
Arsenic (Total)		20.97	mg/Kg	11/29/01	EPA 6010
Barium (Total)		208.99	mg/Kg	11/29/01	EPA 6010
Beryllium (Total)		0.56	mg/Kg	11/29/01	EPA 6010
Boron (Total)		9.22	mg/Kg	11/29/01	EPA 6010
Cadmium (Total)		19.16	mg/Kg	11/29/01	EPA 6010
Calcium (Total)		5563.88	mg/Kg	11/29/01	EPA 6010
Chromium (Total)		22.00	mg/Kg	11/29/01	EPA 6010
Cobalt (Total)		8.70	mg/Kg	11/29/01	EPA 6010
Copper (Total)		150.53	mg/Kg	11/29/01	EPA 6010
Iron (Total)		24667.22	mg/Kg	11/29/01	EPA 6010
Lead (Total)		797.33	mg/Kg	11/29/01	EPA 6010
Magnesium (Total)		1476.08	mg/Kg	11/29/01	EPA 6010
Manganese (Total)		1042.66	mg/Kg	11/30/01	EPA 6010
Molybdenum (Total)	<	2.00	mg/Kg	11/29/01	EPA 6210
Nickel (Total)		18.02	mg/Kg	11/29/01	EPA 6210
Potassium (Total)		2532.91	mg/Kg	11/29/01	EPA 6210
Selenium (Total)	<	5.00	mg/Kg	11/29/01	EPA 6210
Silica (Total)		3144.21	mg/Kg	11/29/01	EPA 6210
Silver (Total)		1.31	mg/Kg	11/29/01	EPA 6210
Sodium (Total)		79.10	mg/Kg	11/29/01	EPA 6210
Thallium (Total)	<	5.00	mg/Kg	11/29/01	EPA 6210
Vanadium (Total)		42.10	mg/Kg	11/29/01	EPA 6210
Zinc (Total)		2754.56	mg/Kg	11/30/01	EPA 6210

Reporting Analyst: REH
Date Reported: 12/05/01

< - Not Detected at Indicated Level
* - Holding Time Exceeded

Copies To: File

DIVISION OF HEALTH & ENVIRONMENTAL LABORATORIES
Kansas Department of Health and Environment
Forbes Field, Bldg. 740, Topeka, Kansas 66620-0001

REPORT OF ANALYSIS

RECEIVED
DEC 0 6 2001
BUREAU OF ENVIRONMENTAL REMEDIATION

INORGANIC CHEMISTRY

Report To: Bureau of Env. Remediation
Forbes Field, Bldg. 740
Attn: Randy Brown
Topeka KS 66620

Lab Number: 200915PT

Site ID: 4EM80
Account Code: EP

Collection Location: Cherryvale Yards, 529 W. 1st

Collector: Randy Brown-BER
Matrix: Soil
Collect Depth:
Date/Time Collected: 11/15/01 12:25
Date/Time Received: 11/19/01 10:50

Sample Comments: Needs results by 12-01-01

Parameter		Analytical Result	Units	Analysis Date	Analytical Method
Aluminum (Total)		18038.85	mg/Kg	11/29/01	EPA 6010
Antimony (Total)	<	5.00	mg/Kg	11/29/01	EPA 6010
Arsenic (Total)		23.85	mg/Kg	11/29/01	EPA 6010
Barium (Total)		143.07	mg/Kg	11/29/01	EPA 6010
Beryllium (Total)		0.31	mg/Kg	11/29/01	EPA 6010
Boron (Total)		13.18	mg/Kg	11/29/01	EPA 6010
Cadmium (Total)		8.87	mg/Kg	11/29/01	EPA 6010
Calcium (Total)		42161.25	mg/Kg	11/29/01	EPA 6010
Chromium (Total)		17.62	mg/Kg	11/29/01	EPA 6010
Cobalt (Total)		8.09	mg/Kg	11/29/01	EPA 6010
Copper (Total)		309.39	mg/Kg	11/29/01	EPA 6010
Iron (Total)		20089.38	mg/Kg	11/29/01	EPA 6010
Lead (Total)		440.96	mg/Kg	11/29/01	EPA 6010
Magnesium (Total)		2441.50	mg/Kg	11/29/01	EPA 6010
Manganese (Total)		1230.72	mg/Kg	11/30/01	EPA 6010
Molybdenum (Total)	<	2.00	mg/Kg	11/29/01	EPA 6210
Nickel (Total)		31.08	mg/Kg	11/29/01	EPA 6210
Potassium (Total)		2977.89	mg/Kg	11/29/01	EPA 6210
Selenium (Total)	<	5.00	mg/Kg	11/29/01	EPA 6210
Silica (Total)		2615.12	mg/Kg	11/29/01	EPA 6210
Silver (Total)		3.13	mg/Kg	11/29/01	EPA 6210
Sodium (Total)		129.15	mg/Kg	11/29/01	EPA 6210
Thallium (Total)	<	5.00	mg/Kg	11/29/01	EPA 6210
Vanadium (Total)		33.30	mg/Kg	11/29/01	EPA 6210
Zinc (Total)		2790.59	mg/Kg	11/30/01	EPA 6210

Reporting Analyst: REH
Date Reported: 12/05/01

< - Not Detected at Indicated Level
* - Holding Time Exceeded

Copies To: File

DIVISION OF HEALTH & ENVIRONMENTAL LABORATORIES
Kansas Department of Health and Environment
Forbes Field, Bldg. 740, Topeka, Kansas 66620-0001

REPORT OF ANALYSIS

RECEIVED
DEC 06 2001
BUREAU OF ENVIRONMENTAL REMEDIATION

INORGANIC CHEMISTRY

Report To: Bureau of Env. Remediation
Forbes Field, Bldg. 740
ATTN: Randy Brown
Topeka KS 66620

Lab Number: 200914PT

Site ID: 4EM80
Account Code: EP

Collection Location: Cherryvale Yards 508 W. 2nd

Collector: Randy Brown KDHE/BER
Matrix: Soil
Collect Depth:
Date/Time Collected: 11/15/01 12:00
Date/Time Received: 11/19/01 10:50

Sample Comments: Need results by 12/01

Parameter		Analytical Result	Units	Analysis Date	Analytical Method
Aluminum (Total)		17890.56	mg/Kg	11/29/01	EPA 6010
Antimony (Total)	<	5.00	mg/Kg	11/29/01	EPA 6010
Arsenic (Total)		8.23	mg/Kg	11/29/01	EPA 6010
Barium (Total)		159.53	mg/Kg	11/29/01	EPA 6010
Beryllium (Total)		0.31	mg/Kg	11/29/01	EPA 6010
Boron (Total)		10.22	mg/Kg	11/29/01	EPA 6010
Cadmium (Total)		4.09	mg/Kg	11/29/01	EPA 6010
Calcium (Total)		4336.30	mg/Kg	11/29/01	EPA 6010
Chromium (Total)		18.37	mg/Kg	11/29/01	EPA 6010
Cobalt (Total)		6.39	mg/Kg	11/29/01	EPA 6010
Copper (Total)		43.24	mg/Kg	11/29/01	EPA 6010
Iron (Total)		16976.31	mg/Kg	11/29/01	EPA 6010
Lead (Total)		195.86	mg/Kg	11/29/01	EPA 6010
Magnesium (Total)		1671.25	mg/Kg	11/29/01	EPA 6010
Manganese (Total)		949.97	mg/Kg	11/30/01	EPA 6010
Molybdenum (Total)	<	2.00	mg/Kg	11/29/01	EPA 6210
Nickel (Total)		14.28	mg/Kg	11/29/01	EPA 6210
Potassium (Total)		3230.35	mg/Kg	11/29/01	EPA 6210
Selenium (Total)	<	5.00	mg/Kg	11/29/01	EPA 6210
Silica (Total)		3605.04	mg/Kg	11/29/01	EPA 6210
Silver (Total)	<	1.00	mg/Kg	11/29/01	EPA 6210
Sodium (Total)		75.77	mg/Kg	11/29/01	EPA 6210
Thallium (Total)	<	5.00	mg/Kg	11/29/01	EPA 6210
Vanadium (Total)		34.41	mg/Kg	11/29/01	EPA 6210
Zinc (Total)		655.20	mg/Kg	11/29/01	EPA 6210

Reporting Analyst: REH
Date Reported: 12/05/01

< - Not Detected at Indicated Level
* - Holding Time Exceeded

Copies To: File

DIVISION OF HEALTH & ENVIRONMENTAL LABORATORIES
Kansas Department of Health and Environment
Forbes Field, Bldg. 740, Topeka, Kansas 66620-0001

REPORT OF ANALYSIS

RECEIVED
DEC 06 2001
BUREAU OF ENVIRONMENTAL REMEDIATION

INORGANIC CHEMISTRY

Report To: Bureau of Env. Remediation
Forbes Field, Bldg. 740
Attn: Randy Brown
Topeka KS 66620

Lab Number: 200913PT

Site ID: 4EM80
Account Code: EP

Collection Location: Cherryvale Yards, 516 W. 2nd

Collector: Randy Brown-BER
Matrix: Soil
Collect Depth:
Date/Time Collected: 11/15/01 11:45
Date/Time Received: 11/19/01 10:50

Sample Comments: Needs results by 12-01-01

Parameter		Analytical Result	Units	Analysis Date	Analytical Method
Aluminum (Total)		15946.10	mg/Kg	11/29/01	EPA 6010
Antimony (Total)	<	5.00	mg/Kg	11/29/01	EPA 6010
Arsenic (Total)		10.47	mg/Kg	11/29/01	EPA 6010
Barium (Total)		241.93	mg/Kg	11/29/01	EPA 6010
Beryllium (Total)		0.29	mg/Kg	11/29/01	EPA 6010
Boron (Total)		9.00	mg/Kg	11/29/01	EPA 6010
Cadmium (Total)		10.46	mg/Kg	11/29/01	EPA 6010
Calcium (Total)		3792.58	mg/Kg	11/29/01	EPA 6010
Chromium (Total)		19.12	mg/Kg	11/29/01	EPA 6010
Cobalt (Total)		6.96	mg/Kg	11/29/01	EPA 6010
Copper (Total)		99.21	mg/Kg	11/29/01	EPA 6010
Iron (Total)		18321.35	mg/Kg	11/29/01	EPA 6010
Lead (Total)		561.57	mg/Kg	11/29/01	EPA 6010
Magnesium (Total)		1426.30	mg/Kg	11/29/01	EPA 6010
Manganese (Total)		1185.68	mg/Kg	11/30/01	EPA 6010
Molybdenum (Total)	<	2.00	mg/Kg	11/29/01	EPA 6210
Nickel (Total)		15.06	mg/Kg	11/29/01	EPA 6210
Potassium (Total)		2799.22	mg/Kg	11/29/01	EPA 6210
Selenium (Total)	<	5.00	mg/Kg	11/29/01	EPA 6210
Silica (Total)		2653.11	mg/Kg	11/29/01	EPA 6210
Silver (Total)	<	1.00	mg/Kg	11/29/01	EPA 6210
Sodium (Total)		84.93	mg/Kg	11/29/01	EPA 6210
Thallium (Total)	<	5.00	mg/Kg	11/29/01	EPA 6210
Vanadium (Total)		32.41	mg/Kg	11/29/01	EPA 6210
Zinc (Total)		1487.64	mg/Kg	11/29/01	EPA 6210

Reporting Analyst: REH
Date Reported: 12/05/01

< - Not Detected at Indicated Level
* - Holding Time Exceeded

Copies To: File

DIVISION OF HEALTH & ENVIRONMENTAL LABORATORIES
Kansas Department of Health and Environment
Forbes Field, Bldg. 740, Topeka, Kansas 66620-0001

REPORT OF ANALYSIS

RECEIVED
DEC 06 2001
BUREAU OF ENVIRONMENTAL REMEDIATION

INORGANIC CHEMISTRY

Report To: Bureau of Env. Remediation
Forbes Field, Bldg. 740
Attn: Randy Brown
Topeka KS 66620

Lab Number: 200910PT

Site ID: 4EM80
Account Code: EP

Collection Location: Cherryvale Yards, 534 W. 2nd

Collector: Randy Brown-BER
Matrix: Soil
Collect Depth:
Date/Time Collected: 11/15/01 11:10
Date/Time Received: 11/19/01 10:50

Sample Comments: Need results by 12-01-01

Parameter		Analytical Result	Units	Analysis Date	Analytical Method
Aluminum (Total)		16725.65	mg/Kg	11/29/01	EPA 6010
Antimony (Total)	<	5.00	mg/Kg	11/29/01	EPA 6010
Arsenic (Total)		11.27	mg/Kg	11/29/01	EPA 6010
Barium (Total)		203.02	mg/Kg	11/29/01	EPA 6010
Beryllium (Total)		0.36	mg/Kg	11/29/01	EPA 6010
Boron (Total)		11.90	mg/Kg	11/29/01	EPA 6010
Cadmium (Total)		12.61	mg/Kg	11/29/01	EPA 6010
Calcium (Total)		7751.91	mg/Kg	11/29/01	EPA 6010
Chromium (Total)		20.24	mg/Kg	11/29/01	EPA 6010
Cobalt (Total)		5.50	mg/Kg	11/29/01	EPA 6010
Copper (Total)		109.99	mg/Kg	11/29/01	EPA 6010
Iron (Total)		21313.40	mg/Kg	11/29/01	EPA 6010
Lead (Total)		544.05	mg/Kg	11/29/01	EPA 6010
Magnesium (Total)		1588.04	mg/Kg	11/29/01	EPA 6010
Manganese (Total)		891.26	mg/Kg	11/30/01	EPA 6010
Molybdenum (Total)	<	2.00	mg/Kg	11/29/01	EPA 6210
Nickel (Total)		15.29	mg/Kg	11/29/01	EPA 6210
Potassium (Total)		3419.78	mg/Kg	11/29/01	EPA 6210
Selenium (Total)	<	5.00	mg/Kg	11/29/01	EPA 6210
Silica (Total)		2977.37	mg/Kg	11/29/01	EPA 6210
Silver (Total)	<	1.00	mg/Kg	11/29/01	EPA 6210
Sodium (Total)		90.08	mg/Kg	11/29/01	EPA 6210
Thallium (Total)	<	5.00	mg/Kg	11/29/01	EPA 6210
Vanadium (Total)		31.66	mg/Kg	11/29/01	EPA 6210
Zinc (Total)		1670.70	mg/Kg	11/29/01	EPA 6210

Reporting Analyst: REH
Date Reported: 12/05/01

< - Not Detected at Indicated Level
* - Holding Time Exceeded

Copies To: File

Environmental Laboratories
Inorganic Chemistry (785) 296-1657
Organic Chemistry (785) 296-1647
Radiochemistry (785) 296-1629
Env. Microbiology (785) 296-0971

Roger H. Carlson, Ph.D., Director - (785) 296-1620
Laboratory Information and Reporting - (785) 296-1627
Laboratory Fax - (785) 296-1641

Health Laboratories
Diagnostic Micro. (785) 296-1636
Neonatal Screening (785) 296-1651
Serology (785) 296-1653
Virology (785) 296-1645

Pace Analytical™
www.pacelabs.com

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
Phone: 913.599.5665
Fax: 913.599.1759

KDHE
BUILDING 740, FORBES FIELD
TOPEKA, KS 66620

Lab Project Number: 6054458
Client Project ID: N LIBERTY

RECEIVED
DEC 14 2001
BUREAU OF
ENVIRONMENTAL REMEDIATION

Attn: Mr. RANDY BROWN
Phone: (785)296-8065

Solid results are reported on a dry weight basis

Lab Sample No: 604745786 Project Sample Number: 6054458-001 Date Collected: 11/28/01 15:45
Client Sample ID: 400 N LIBERTY Matrix: Soil Date Received: 11/29/01 10:50

Parameters	Results	Units	Report Limit	Dilution	Analyzed		CAS No.	Ftnote	Reg Limit
Metals									
Metals-Standard ICP, Soil	Prep/Method: EPA 3050 / EPA 6010								
Arsenic	25.5	mg/kg	13.1	0.9	12/11/01	JLG	7440-38-2		
Barium	280.	mg/kg	0.617	0.9	12/11/01	JLG	7440-39-3		
Cadmium	24.3	mg/kg	0.772	0.9	12/11/01	JLG	7440-43-9		
Chromium	14.5	mg/kg	1.08	0.9	12/11/01	JLG	7440-47-3		
Lead	1040	mg/kg	7.72	0.9	12/11/01	JLG	7439-92-1		
Selenium	ND	mg/kg	15.4	0.9	12/11/01	JLG	7782-49-2		
Silver	5.57	mg/kg	1.08	0.9	12/11/01	JLG	7440-22-4		
Date Digested					12/04/01				
Mercury, Soil CVAAS	Prep/Method: EPA 7471 / EPA 7471								
Mercury	0.662	mg/kg	0.231	0.9	12/10/01 17:02	SYW	7439-97-6		
Organics Prep									
Percent Moisture	Method:								
Percent Moisture	39.4	%		0.6	12/10/01	MIM			

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc.

ACCREDITED IN ACCORDANCE WITH nelac

Pace Analytical™
www.pacelabs.com

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
Phone: 913.599.5665
Fax: 913.599.1759

RECEIVED
DEC 14 2001
BUREAU OF
ENVIRONMENTAL REMEDIATION

December 12, 2001

Mr. RANDY BROWN
KDHE
BUILDING 740, FORBES FIELD
TOPEKA, KS 66620

RE: Lab Project Number: 6054458
Client Project ID: N LIBERTY

Dear Mr. BROWN:

Enclosed are the analytical results for sample(s) received by the laboratory on November 29, 2001. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

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

Sincerely,

Angie Brown
angela.brown@pacelabs.com
Project Manager

Kansas/NELAP Certification Number E-10116

Enclosures

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc.

ACCREDITED IN ACCORDANCE WITH nelac

Pace Analytical™
www.pacelabs.com

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
Phone: 913.599.5665
Fax: 913.599.1759

RECEIVED
DEC 14 2001
BUREAU OF
ENVIRONMENTAL REMEDIATION

Lab Project Number: 6054458
Client Project ID: N LIBERTY

Lab Sample No: 604745810 | Project Sample Number: 6054458-002 | Date Collected: 11/28/01 15:20
Client Sample ID: 404 N LIBERTY | Matrix: Soil | Date Received: 11/29/01 10:50

Parameters	Results	Units	Report Limit	Dilution	Analyzed		CAS No.	Ftnote	Reg Limit
Metals									
Metals-Standard ICP, Soil	Prep/Method: EPA 3050 / EPA 6010								
Arsenic	19.6	mg/kg	11.2	0.9	12/11/01	JLG	7440-38-2		
Barium	406.	mg/kg	0.527	0.9	12/11/01	JLG	7440-39-3		
Cadmium	23.1	mg/kg	0.658	0.9	12/11/01	JLG	7440-43-9		
Chromium	22.9	mg/kg	0.922	0.9	12/11/01	JLG	7440-47-3		
Lead	1030	mg/kg	6.58	0.9	12/11/01	JLG	7439-92-1		
Selenium	ND	mg/kg	13.2	0.9	12/11/01	JLG	7782-49-2		
Silver	2.78	mg/kg	0.922	0.9	12/11/01	JLG	7440-22-4		
Date Digested					12/04/01				
Mercury, Soil CVAAS	Prep/Method: EPA 7471 / EPA 7471								
Mercury	0.227	mg/kg	0.199	0.9	12/10/01 17:04	SYW	7439-97-6		
Organics Prep									
Percent Moisture	Method:								
Percent Moisture	29.7	%		0.7	12/10/01	MIM			

REPORT OF LABORATORY ANALYSIS
This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc.

ACCREDITED IN ACCORDANCE WITH nelac

Pace Analytical™
www.pacelabs.com

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
Phone: 913.599.5665
Fax: 913.599.1759

RECEIVED
DEC 14 2001
BUREAU OF
ENVIRONMENTAL REMEDIATION

Lab Project Number: 6054458
Client Project ID: N LIBERTY

Lab Sample No: 604745836 Project Sample Number: 6054458-003 Date Collected: 11/28/01 15:20
Client Sample ID: 406 N LIBERTY Matrix: Soil Date Received: 11/29/01 10:50

Parameters	Results	Units	Report Limit	Dilution	Analyzed		CAS No.	Ftnote	Reg Limit
Metals									
Metals-Standard ICP, Soil	Prep/Method: EPA 3050 / EPA 6010								
Arsenic	32.3	mg/kg	12.2	1.0	12/11/01	JLG	7440-38-2		
Barium	266.	mg/kg	0.573	1.0	12/11/01	JLG	7440-39-3		
Cadmium	31.8	mg/kg	0.717	1.0	12/11/01	JLG	7440-43-9		
Chromium	21.0	mg/kg	1.00	1.0	12/11/01	JLG	7440-47-3		
Lead	1710	mg/kg	7.17	1.0	12/11/01	JLG	7439-92-1		
Selenium	ND	mg/kg	14.3	1.0	12/11/01	JLG	7782-49-2		
Silver	3.01	mg/kg	1.00	1.0	12/11/01	JLG	7440-22-4		
Date Digested					12/04/01				
Mercury, Soil CVAAS	Prep/Method: EPA 7471 / EPA 7471								
Mercury	0.411	mg/kg	0.227	1.0	12/10/01 17:10	SYW	7439-97-6		
Organics Prep									
Percent Moisture	Method:								
Percent Moisture	32.2	%		0.7	12/10/01	MIM			

REPORT OF LABORATORY ANALYSIS
This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc.

ACCREDITED IN ACCORDANCE WITH nelac

Pace Analytical™
www.pacelabs.com

RECEIVED
DEC 1 4 2001
BUREAU OF
ENVIRONMENTAL REMEDIATION

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
Phone: 913.599.5665
Fax: 913.599.1759

Lab Project Number: 6054458
Client Project ID: N LIBERTY

Lab Sample No: 604745844 | Project Sample Number: 6054458-004 | Date Collected: 11/28/01 15:15
Client Sample ID: 412 N LIBERTY | Matrix: Soil | Date Received: 11/29/01 10:50

Parameters	Results	Units	Report Limit	Dilution	Analyzed		CAS No.	Ftnote	Reg Limit
Metals									
Metals-Standard ICP, Soil	Prep/Method: EPA 3050 / EPA 6010								
Arsenic	ND	mg/kg	12.6	0.9	12/11/01	JLG	7440-38-2		
Barium	195.	mg/kg	0.594	0.9	12/11/01	JLG	7440-39-3		
Cadmium	12.5	mg/kg	0.742	0.9	12/11/01	JLG	7440-43-9		
Chromium	16.0	mg/kg	1.04	0.9	12/11/01	JLG	7440-47-3		
Lead	341.	mg/kg	7.42	0.9	12/11/01	JLG	7439-92-1		
Selenium	ND	mg/kg	14.8	0.9	12/11/01	JLG	7782-49-2		
Silver	ND	mg/kg	1.04	0.9	12/11/01	JLG	7440-22-4		
Date Digested					12/04/01				
Mercury, Soil CVAAS	Prep/Method: EPA 7471 / EPA 7471								
Mercury	ND	mg/kg	0.196	0.8	12/10/01 17:12	SYW	7439-97-6		
Organics Prep									
Percent Moisture	Method:								
Percent Moisture	37.0	%		0.6	12/10/01	MIM			

REPORT OF LABORATORY ANALYSIS
This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc.

ACCREDITED IN ACCORDANCE WITH nelac

Pace Analytical™
www.pacelabs.com

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
Phone: 913.599.5665
Fax: 913.599.1759

Lab Project Number: 6054458
Client Project ID: N LIBERTY

Lab Sample No: 604745869 | Project Sample Number: 6054458-005 | Date Collected: 11/28/01 15:30
Client Sample ID: 416 N LIBERTY #1 | Matrix: Soil | Date Received: 11/29/01 10:50

Parameters	Results	Units	Report Limit	Dilution	Analyzed		CAS No.	Ftnote	Reg Limit
Metals									
Metals-Standard ICP, Soil	Prep/Method: EPA 3050 / EPA 6010								
Arsenic	14.2	mg/kg	10.3	1.0	12/11/01	JLG	7440-38-2		
Barium	436.	mg/kg	0.486	1.0	12/11/01	JLG	7440-39-3		
Cadmium	16.8	mg/kg	0.607	1.0	12/11/01	JLG	7440-43-9		
Chromium	24.3	mg/kg	0.850	1.0	12/11/01	JLG	7440-47-3		
Lead	1800	mg/kg	6.07	1.0	12/11/01	JLG	7439-92-1		
Selenium	ND	mg/kg	12.1	1.0	12/11/01	JLG	7782-49-2		
Silver	1.47	mg/kg	0.850	1.0	12/11/01	JLG	7440-22-4		
Date Digested					12/04/01				
Mercury, Soil CVAAS	Prep/Method: EPA 7471 / EPA 7471								
Mercury	0.376	mg/kg	0.185	1.0	12/10/01 17:14	SYW	7439-97-6		
Organics Prep									
Percent Moisture	Method:								
Percent Moisture	20.8	%		0.8	12/11/01	MIM			

RECEIVED
DEC 14 2001
BUREAU OF
ENVIRONMENTAL REMEDIATION

REPORT OF LABORATORY ANALYSIS
This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc.

ACCREDITED IN ACCORDANCE WITH nelac

Pace Analytical™
www.pacelabs.com

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
Phone: 913.599.5665
Fax: 913.599.1759

Lab Project Number: 6054458
Client Project ID: N LIBERTY

Lab Sample No: 604745877 Project Sample Number: 6054458-006 Date Collected: 11/28/01 15:40
Client Sample ID: 416 N LIBERTY #5 Matrix: Soil Date Received: 11/29/01 10:50

Parameters	Results	Units	Report Limit	Dilution	Analyzed		CAS No.	Ftnote	Reg Limit
Metals									
Metals-Standard ICP, Soil	Prep/Method: EPA 3050 / EPA 6010								
Arsenic	12.0	mg/kg	9.76	0.9	12/11/01	JLG	7440-38-2		
Barium	382.	mg/kg	0.459	0.9	12/11/01	JLG	7440-39-3		
Cadmium	18.9	mg/kg	0.574	0.9	12/11/01	JLG	7440-43-9		
Chromium	14.3	mg/kg	0.804	0.9	12/11/01	JLG	7440-47-3		
Lead	1120	mg/kg	5.74	0.9	12/11/01	JLG	7439-92-1		
Selenium	ND	mg/kg	11.5	0.9	12/11/01	JLG	7782-49-2		
Silver	1.46	mg/kg	0.804	0.9	12/11/01	JLG	7440-22-4		
Date Digested					12/04/01				
Mercury, Soil CVAAS	Prep/Method: EPA 7471 / EPA 7471								
Mercury	0.423	mg/kg	0.169	0.9	12/10/01 17:16	SYW	7439-97-6		
Organics Prep									
Percent Moisture	Method:								
Percent Moisture	20.9	%		0.8	12/11/01	MIM			

RECEIVED
DEC 14 2001
BUREAU OF
ENVIRONMENTAL REMEDIATION

REPORT OF LABORATORY ANALYSIS
This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc.

ACCREDITED IN ACCORDANCE WITH nelac

Pace Analytical™
www.pacelabs.com

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
Phone: 913.599.5665
Fax: 913.599.1759

Lab Project Number: 6054458
Client Project ID: N LIBERTY

Lab Sample No: 604745893 | Project Sample Number: 6054458-007 | Date Collected: 11/28/01 15:00
Client Sample ID: 420 N LIBERTY | Matrix: Soil | Date Received: 11/29/01 10:50

Parameters	Results	Units	Report Limit	Dilution	Analyzed		CAS No.	Ftnote	Reg Limit
Metals									
Metals-Standard ICP, Soil	Prep/Method: EPA 3050 / EPA 6010								
Arsenic	11.5	mg/kg	10.1	1.0	12/11/01	JLG	7440-38-2		
Barium	198.	mg/kg	0.474	1.0	12/11/01	JLG	7440-39-3		
Cadmium	14.4	mg/kg	0.593	1.0	12/11/01	JLG	7440-43-9		
Chromium	11.2	mg/kg	0.830	1.0	12/11/01	JLG	7440-47-3		
Lead	852.	mg/kg	5.93	1.0	12/11/01	JLG	7439-92-1		
Selenium	ND	mg/kg	11.9	1.0	12/11/01	JLG	7782-49-2		
Silver	1.19	mg/kg	0.830	1.0	12/11/01	JLG	7440-22-4		
Date Digested					12/04/01				
Mercury, Soil CVAAS	Prep/Method: EPA 7471 / EPA 7471								
Mercury	0.177	mg/kg	0.160	0.8	12/10/01 17:19	SYW	7439-97-6		
Organics Prep									
Percent Moisture	Method:								
Percent Moisture	19.6	%		0.8	12/11/01	MIM			

RECEIVED
DEC 14 2001
BUREAU OF
ENVIRONMENTAL REMEDIATION

REPORT OF LABORATORY ANALYSIS
This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc.

ACCREDITED IN ACCORDANCE WITH nelac

Pace Analytical™
www.pacelabs.com

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
Phone: 913.599.5665
Fax: 913.599.1759

Lab Project Number: 6054458
Client Project ID: N LIBERTY

Lab Sample No: 604745919 Project Sample Number: 6054458-008 Date Collected: 11/28/01 15:15
Client Sample ID: 420 N LIBERTY #5 Matrix: Soil Date Received: 11/29/01 10:50

Parameters	Results	Units	Report Limit	Dilution	Analyzed		CAS No.	Ftnote	Reg Limit
Metals									
Metals-Standard ICP, Soil	Prep/Method: EPA 3050 / EPA 6010								
Arsenic	14.9	mg/kg	11.4	0.9	12/11/01	JLG	7440-38-2		
Barium	209.	mg/kg	0.538	0.9	12/11/01	JLG	7440-39-3		
Cadmium	16.7	mg/kg	0.672	0.9	12/11/01	JLG	7440-43-9		
Chromium	15.1	mg/kg	0.941	0.9	12/11/01	JLG	7440-47-3		
Lead	830.	mg/kg	6.72	0.9	12/11/01	JLG	7439-92-1		
Selenium	ND	mg/kg	13.4	0.9	12/11/01	JLG	7782-49-2		
Silver	1.71	mg/kg	0.941	0.9	12/11/01	JLG	7440-22-4		
Date Digested					12/04/01				
Mercury, Soil CVAAS	Prep/Method: EPA 7471 / EPA 7471								
Mercury	0.224	mg/kg	0.220	1.0	12/10/01 17:21	SYW	7439-97-6		
Organics Prep									
Percent Moisture	Method:								
Percent Moisture	29.8	%		0.7	12/11/01	MIM			

RECEIVED
DEC 14 2001
BUREAU OF
ENVIRONMENTAL REMEDIATION

REPORT OF LABORATORY ANALYSIS
This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc.

ACCREDITED IN ACCORDANCE WITH nelac

Pace Analytical™
www.pacelabs.com

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
Phone: 913.599.5665
Fax: 913.599.1759

Lab Project Number: 6054458
Client Project ID: N LIBERTY

Lab Sample No: 604745935 Project Sample Number: 6054458-009 Date Collected: 11/28/01 14:45
Client Sample ID: 502 N LIBERTY Matrix: Soil Date Received: 11/29/01 10:50

Parameters	Results	Units	Report Limit	Dilution	Analyzed		CAS No.	Ftnote	Reg Limit
Metals									
Metals-Standard ICP, Soil	Prep/Method: EPA 3050 / EPA 6010								
Arsenic	12.0	mg/kg	9.88	1.0	12/11/01	JLG	7440-38-2		
Barium	222.	mg/kg	0.465	1.0	12/11/01	JLG	7440-39-3		
Cadmium	10.4	mg/kg	0.581	1.0	12/11/01	JLG	7440-43-9		
Chromium	13.9	mg/kg	0.813	1.0	12/11/01	JLG	7440-47-3		
Lead	332.	mg/kg	5.81	1.0	12/11/01	JLG	7439-92-1		
Selenium	ND	mg/kg	11.6	1.0	12/11/01	JLG	7782-49-2		
Silver	1.24	mg/kg	0.813	1.0	12/11/01	JLG	7440-22-4		
Date Digested					12/04/01				
Mercury, Soil CVAAS	Prep/Method: EPA 7471 / EPA 7471								
Mercury	ND	mg/kg	0.169	0.9	12/10/01 17:23	SYW	7439-97-6		
Organics Prep									
Percent Moisture	Method:								
Percent Moisture	17.2	%		0.8	12/11/01	MIM			

RECEIVED
DEC 14 2001
BUREAU OF
ENVIRONMENTAL REMEDIATION

REPORT OF LABORATORY ANALYSIS
This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc.
ACCREDITED IN ACCORDANCE WITH nelac

Pace Analytical™
www.pacelabs.com

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
Phone: 913.599.5665
Fax: 913.599.1759

Lab Project Number: 6054458
Client Project ID: N LIBERTY

Lab Sample No: 604745950 Project Sample Number: 6054458-010 Date Collected: 11/28/01 14:30
Client Sample ID: 508 N LIBERTY Matrix: Soil Date Received: 11/29/01 10:50

Parameters	Results	Units	Report Limit	Dilution	Analyzed		CAS No.	Ftnote	Reg Limit
Metals									
Metals-Standard ICP, Soil	Prep/Method: EPA 3050 / EPA 6010								
Arsenic	11.6	mg/kg	11.6	0.9	12/11/01	JLG	7440-38-2		
Barium	204.	mg/kg	0.546	0.9	12/11/01	JLG	7440-39-3		
Cadmium	21.5	mg/kg	0.682	0.9	12/11/01	JLG	7440-43-9		
Chromium	13.0	mg/kg	0.955	0.9	12/11/01	JLG	7440-47-3		
Lead	672.	mg/kg	6.82	0.9	12/11/01	JLG	7439-92-1		
Selenium	ND	mg/kg	13.6	0.9	12/11/01	JLG	7782-49-2		
Silver	1.82	mg/kg	0.955	0.9	12/11/01	JLG	7440-22-4		
Date Digested					12/04/01				
Mercury, Soil CVAAS	Prep/Method: EPA 7471 / EPA 7471								
Mercury	0.380	mg/kg	0.223	1.0	12/10/01 17:25	SYW	7439-97-6		
Organics Prep									
Percent Moisture	Method:								
Percent Moisture	30.9	%		0.7	12/11/01	MIM			

REPORT OF LABORATORY ANALYSIS
This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc.

ACCREDITED IN ACCORDANCE WITH nelac

Pace Analytical™
www.pacelabs.com

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
Phone: 913.599.5665
Fax: 913.599.1759

Lab Project Number: 6054458
Client Project ID: N LIBERTY

PARAMETER FOOTNOTES

ND Not Detected
NC Not Calculable

RECEIVED
DEC 14 2001
BUREAU OF
ENVIRONMENTAL REMEDIATION

REPORT OF LABORATORY ANALYSIS
This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc.

ACCREDITED IN ACCORDANCE WITH nelac

Pace Analytical™
www.pacelabs.com

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
Phone: 913.599.5665
Fax: 913.599.1759

QUALITY CONTROL DATA

Lab Project Number: 6054458
Client Project ID: N LIBERTY

QC Batch: 113827 — Analysis Method: EPA 7471
QC Batch Method: EPA 7471 — Analysis Description: Mercury, Soil CVAAS
Associated Lab Samples: 604745786 604745810 604745836 604745844 604745869 604745877 604745893 604745919 604745935 604745950

METHOD BLANK: 604763102
Associated Lab Samples: 604745786 604745810 604745836 604745844 604745869 604745877 604745893 604745919 604745935 604745950

Parameter	Units	Blank Result	Reporting Limit	Footnotes
Mercury	mg/kg	ND	0.134	

LABORATORY CONTROL SAMPLE: 604763136

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	Footnotes
Mercury	mg/kg	0.6818	0.6476	95	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 604763110 604763128

Parameter	Units	604731778 Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	RPD	Footnotes
Mercury	mg/kg	0.2086	0.9500	1.221	1.217	107	106	0	

RECEIVED
DEC 14 2001
BUREAU OF
ENVIRONMENTAL REMEDIATION

REPORT OF LABORATORY ANALYSIS
This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc.
ACCREDITED IN ACCORDANCE WITH nelac

Pace Analytical™
www.pacelabs.com

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
Phone: 913.599.5665
Fax: 913.599.1759

QUALITY CONTROL DATA

Lab Project Number: 6054458
Client Project ID: N LIBERTY

RECEIVED
DEC 14 2001
BUREAU OF
ENVIRONMENTAL REMEDIATION

QC Batch: 113605 — Analysis Method: EPA 6010
QC Batch Method: EPA 3050 — Analysis Description: Metals-Standard ICP, Soil
Associated Lab Samples: 604745786 604745810 604745836 604745844 604745869 604745877 604745893 604745919 604745935 604745950

METHOD BLANK: 604755090
Associated Lab Samples: 604745786 604745810 604745836 604745844 604745869 604745877 604745893 604745919 604745935 604745950

Parameter	Units	Blank Result	Reporting Limit	Footnotes
Arsenic	mg/kg	ND	8.25	
Barium	mg/kg	ND	0.388	
Cadmium	mg/kg	ND	0.485	
Chromium	mg/kg	ND	0.680	
Lead	mg/kg	ND	4.85	
Selenium	mg/kg	ND	9.71	
Silver	mg/kg	ND	0.680	

LABORATORY CONTROL SAMPLE: 604755108

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	Footnotes
Arsenic	mg/kg	98.04	94.06	96	
Barium	mg/kg	98.04	96.39	98	
Cadmium	mg/kg	9.804	8.855	90	
Chromium	mg/kg	98.04	95.75	98	
Lead	mg/kg	98.04	94.16	96	
Selenium	mg/kg	98.04	89.80	92	
Silver	mg/kg	9.804	9.414	96	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 604755116 604755124

Parameter	Units	604745786 Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	RPD	Footnotes
Arsenic	mg/kg	25.46	155.80	173.9	169.7	95	88	2	
Barium	mg/kg	279.6	155.80	478.4	423.4	128	88	12	1

REPORT OF LABORATORY ANALYSIS
This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc.
ACCREDITED IN ACCORDANCE WITH nelac

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
Phone: 913.599.5665
Fax: 913.599.1759

Pace Analytical™
www.pacelabs.com

QUALITY CONTROL DATA

Lab Project Number: 6054458
Client Project ID: N LIBERTY

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 604755116 604755124

Parameter	Units	604745786 Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	RPD	Footnotes
Cadmium	mg/kg	24.31	15.58	38.75	35.73	93	70	8	
Chromium	mg/kg	14.48	155.80	160.9	158.0	94	88	2	
Lead	mg/kg	1039	155.80	1241	1065	130	16	15	
Selenium	mg/kg	0.5241	155.80	138.0	137.4	88	84	0	
Silver	mg/kg	5.570	15.58	21.10	19.86	100	87	6	

RECEIVED
DEC 14 2001
BUREAU OF
ENVIRONMENTAL REMEDIATION

REPORT OF LABORATORY ANALYSIS
This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc.

ACCREDITED IN ACCORDANCE WITH nelac

Pace Analytical™
www.pacelabs.com

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
Phone: 913.599.5665
Fax: 913.599.1759

QUALITY CONTROL DATA

Lab Project Number: 6054458
Client Project ID: N LIBERTY

QC Batch: 113901 Analysis Method:
QC Batch Method: Analysis Description: Percent Moisture
Associated Lab Samples: 604745786 604745810 604745836 604745844

SAMPLE DUPLICATE: 604768465

Parameter	Units	604739672 Result	DUP Result	RPD	Footnotes
Percent Moisture	%	31.40	30.20	4	

RECEIVED
DEC 14 2001
BUREAU OF
ENVIRONMENTAL REMEDIATION

REPORT OF LABORATORY ANALYSIS
This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc.
ACCREDITED IN ACCORDANCE WITH nelac

Pace Analytical
www.pacelabs.com

QUALITY CONTROL DATA

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
Phone: 913.599.5665
Fax: 913.599.1759

Lab Project Number: 6054458
Client Project ID: N LIBERTY

QC Batch: 113905 Analysis Method:
QC Batch Method: Analysis Description: Percent Moisture
Associated Lab Samples: 604745869 604745877 604745893 604745919 604745935 604745950

SAMPLE DUPLICATE: 604768234

Parameter	Units	604745869 Result	DUP Result	RPD	Footnotes
Percent Moisture	%	20.80	20.40	2	

RECEIVED
DEC 14 2001
BUREAU OF
ENVIRONMENTAL REMEDIATION

REPORT OF LABORATORY ANALYSIS
This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc.
ACCREDITED IN ACCORDANCE WITH nelac

Pace Analytical™
www.pacelabs.com

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
Phone: 913.599.5665
Fax: 913.599.1759

Lab Project Number: 6054458
Client Project ID: N LIBERTY

QUALITY CONTROL DATA PARAMETER FOOTNOTES

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

LCS(D)Laboratory Control Sample (Duplicate)
MS(D)Matrix Spike (Duplicate)
DUP Sample Duplicate
ND Not Detected
NC Not Calculable
RPD Relative Percent Difference
[1] Due to sample matrix interferences, the MS/MSD did not provide reliable results for accuracy and precision. Sample results for this QC batch were accepted based on LCS percent recoveries and RPD values. Affected analytes Ba, Cd and Pb.

RECEIVED
DEC 14 2001
BUREAU OF
ENVIRONMENTAL REMEDIATION

REPORT OF LABORATORY ANALYSIS
This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc.

ACCREDITED IN ACCORDANCE WITH nelac

Pace Analytical™
www.pacelabs.com

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
Phone: 913.599.5665
Fax: 913.599.1759

QUALITY CONTROL DATA

CROSS REFERENCE TABLE

KDHE
BUILDING 740, FORBES FIELD
TOPEKA, KS 66620

Lab Project Number: 6054458
Client Project ID: N LIBERTY

Attn: Mr. RANDY BROWN
Phone: (785)296-8065

Lab Sample No Identifier	Client Sample Identifier	QC Batch Method	QC Batch Identifier	Analytical Method	Analytical Batch Identifier
604745786	400 N LIBERTY	EPA 7471	113827		
604745810	404 N LIBERTY	EPA 7471	113827		
604745836	406 N LIBERTY	EPA 7471	113827		
604745844	412 N LIBERTY	EPA 7471	113827		
604745869	416 N LIBERTY #1	EPA 7471	113827		
604745877	416 N LIBERTY #5	EPA 7471	113827		
604745893	420 N LIBERTY	EPA 7471	113827		
604745919	420 N LIBERTY #5	EPA 7471	113827		
604745935	502 N LIBERTY	EPA 7471	113827		
604745950	508 N LIBERTY	EPA 7471	113827		
604745786	400 N LIBERTY	EPA 3050	113605	EPA 6010	113847
604745810	404 N LIBERTY	EPA 3050	113605	EPA 6010	113847
604745836	406 N LIBERTY	EPA 3050	113605	EPA 6010	113847
604745844	412 N LIBERTY	EPA 3050	113605	EPA 6010	113847
604745869	416 N LIBERTY #1	EPA 3050	113605	EPA 6010	113847
604745877	416 N LIBERTY #5	EPA 3050	113605	EPA 6010	113847
604745893	420 N LIBERTY	EPA 3050	113605	EPA 6010	113847
604745919	420 N LIBERTY #5	EPA 3050	113605	EPA 6010	113847
604745935	502 N LIBERTY	EPA 3050	113605	EPA 6010	113847
604745950	508 N LIBERTY	EPA 3050	113605	EPA 6010	113847
604745786	400 N LIBERTY		113901		
604745810	404 N LIBERTY		113901		
604745836	406 N LIBERTY		113901		
604745844	412 N LIBERTY		113901		

RECEIVED
DEC 14 2001
BUREAU OF
ENVIRONMENTAL REMEDIATION

REPORT OF LABORATORY ANALYSIS
This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc.

ACCREDITED IN ACCORDANCE WITH nelac

Pace Analytical™
www.pacelabs.com

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
Phone: 913.599.5665
Fax: 913.599.1759

Lab Sample No Identifier	Client Sample Identifier	QC Batch Method	QC Batch Identifier	Analytical Method	Analytical Batch Identifier
604745869	416 N LIBERTY #1		113905		
604745877	416 N LIBERTY #5		113905		
604745893	420 N LIBERTY		113905		
604745919	420 N LIBERTY #5		113905		
604745935	502 N LIBERTY		113905		
604745950	508 N LIBERTY		113905		

RECEIVED
DEC 1 4 2001
BUREAU OF
ENVIRONMENTAL REMEDIATION

REPORT OF LABORATORY ANALYSIS
This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc.

ACCREDITED IN ACCORDANCE WITH nelac

Pace Analytical™
www.pacelabs.com

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

634760

Page: of

Required Client Information: **Section A**

Company:
Address:
Phone:
Fax:

Required Client Information: **Section B**

Report To:
Copy To:
Invoice To:
P.O.
Project Name:
Project Number:

Client Information (Check quote/contract):
Requested Due Date:
*TAT:

* Turn around times less than 14 days subject to laboratory and contractual obligations and may result in a Rush Turnaround Surcharge.
Turn Around Time (TAT) in calendar days.

To Be Completed by Pace Analytical and Client **Section C**

Quote Reference:
Project Manager:
Project #: 6054458
Profile #:
Requested Analysis:

Section D **Required** Client Information:

SAMPLE ID
One character per box.
(A–Z, 0–9 / .–)
Sample IDs MUST BE UNIQUE

Valid Matrix Codes

MATRIX	CODE
WATER	WT
SOIL	SL
OIL	OL
WIPE	WP
AIR	AR
TISSUE	TS
OTHER	OT

ITEM #	SAMPLE ID	MATRIX CODE	DATE COLLECTED (mm / dd / yy)	TIME COLLECTED (hh: mm a/p)	# Containers	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Remarks / Lab ID
1	[illegible] GN	SL	[illegible]	[illegible]	1	X								6047 4596
2	[illegible]	SL	[illegible]	[illegible]	1	X								810
3	[illegible]	SL	[illegible]	[illegible]	1	X								830
4	[illegible]	SL	[illegible]	[illegible]	1	X								844
5	[illegible]	SL	[illegible]	[illegible]	1	X								869
6	[illegible]	SL	[illegible]	[illegible]	1	X								877
7	[illegible]	SL	[illegible]	[illegible]	1	X								893
8	[illegible]	SL	[illegible]	[illegible]	1	X								919
9	[illegible]	SL	[illegible]	[illegible]	1	X								935
10	[illegible]	SL	[illegible]	[illegible]	1	X								950
11														
12														

SHIPMENT METHOD	AIRBILL NO.	SHIPPING DATE	NO. OF COOLERS

ITEM NUMBER	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
	[illegible]	[illegible]		[illegible] / Pace	12/9/01	1:50

SAMPLE CONDITION

Temp in °C	
Received on Ice	Y/N
Sealed Cooler	Y/N
Samples Intact	Y/N

Additional Comments:

SAMPLE NOTES

RECEIVE
DEC 14 2001
BUREAU OF
ENVIRONMENTAL REMEDIATION

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER:
SIGNATURE of SAMPLER:
DATE Signed: (MM / DD / YY) [illegible]

SEE REVERSE SIDE FOR INSTRUCTIONS

Form COC01 Rev 0601

NATIONAL ZINC COMPANY SITE
604 N. LIBERTY ST.
CHERRYVALE, KS 67335
PHONE (620) 336-8952 Fax (620) 336-8956

TO: RANDY BROWN

FROM: DON LININGER

SUBJECT: SITE SKETCHES

DATE: 12/10/01

RANDY - These will be a little hard to READ. I will CALL you today to get the ARCAS CONTACT AND your results from THUR.

Thx.

Don

TOTAL PAGES INCLUDING COVER PAGE 8

National Zinc Site Sketch

Name: Arnold Lindquist

Date(s): 11/16/01

Address: 527 First Street
Cherryvale, KS 67335

Sketch: JK

XRF I.D. Operator

Pre-Removal: START + NOTE: see back of field sheet - ID

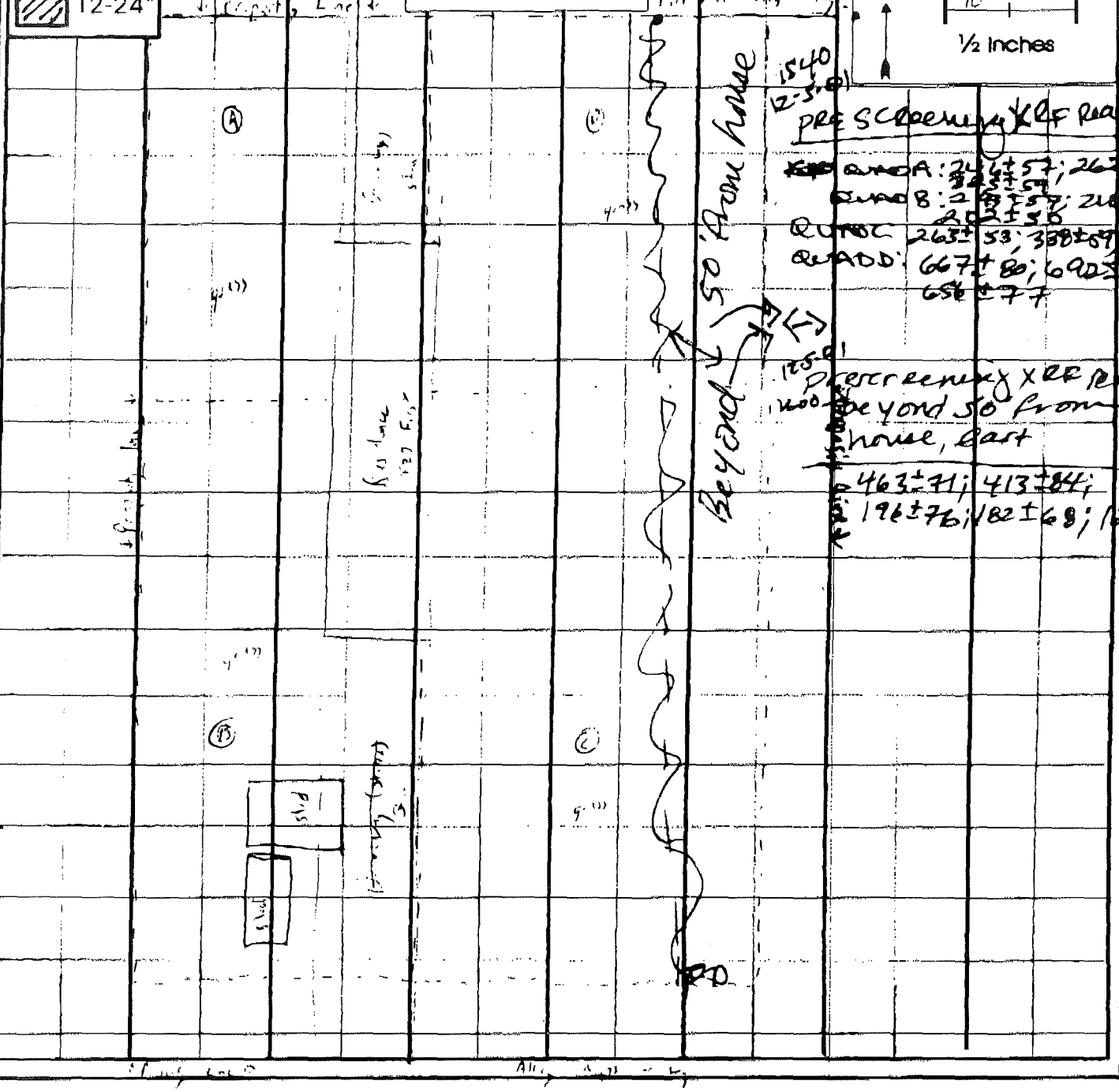
Post-Removal:

0-12"

12-24"

XRF Values
XXX Pre-excavation
(XXX) Post Excavation

Approximate Scale
One Inch= 20'
N
½ Inches



National Zinc Site Sketch

Name: KNIGHTS,

Date(s): 12/3/01

Address: 605 + 609 W 1ST
Cherryvale, KS
67335

	XRF I.D.	Operator
Pre-Removal:	START SEE BELOW	ID
Post-Removal:		

0-12"

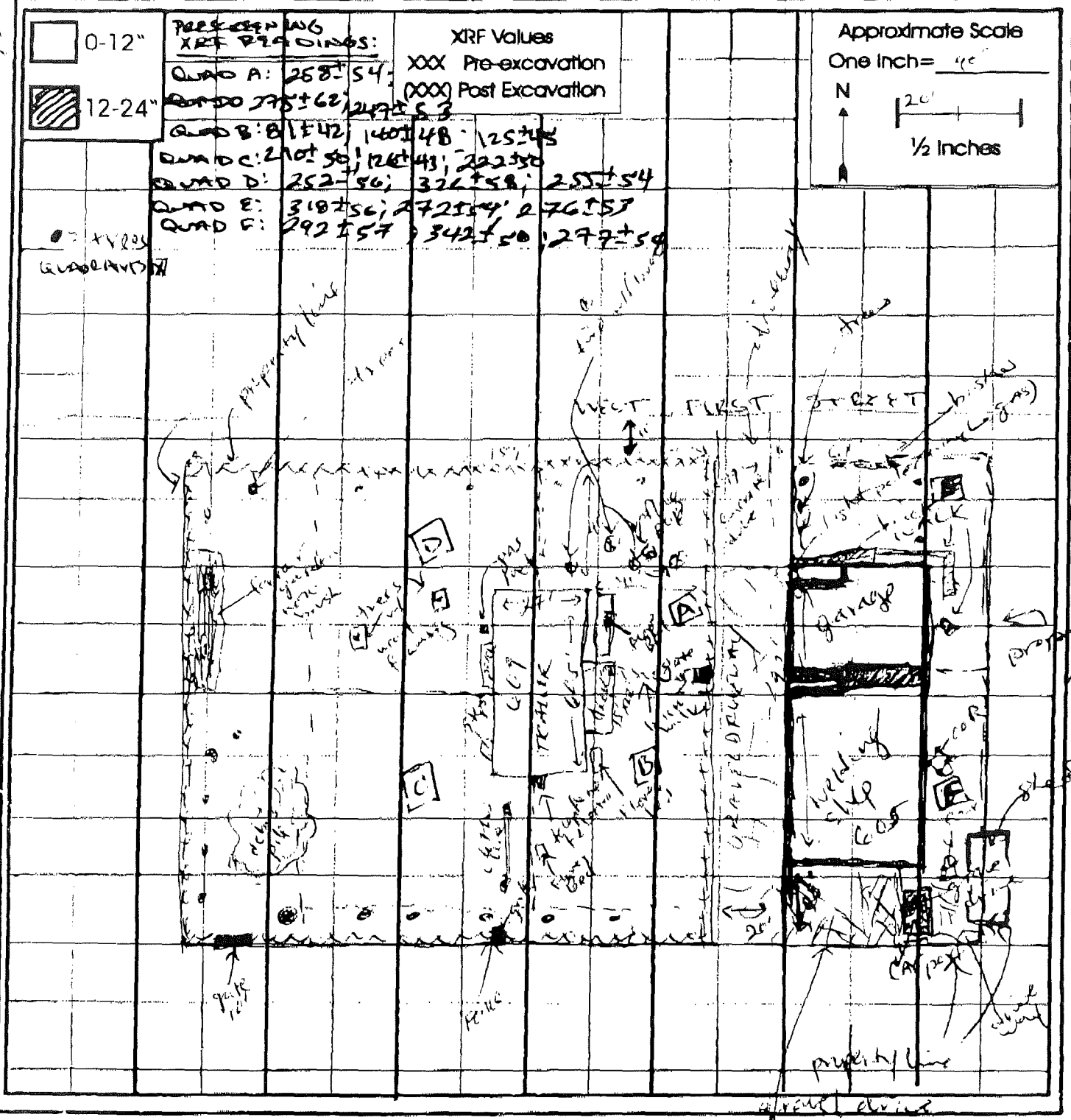
12-24"

PRESCREENING XRF READINGS:

QUAD A: 258±54;
QUAD B: 81±42; 140±48; 125±45
QUAD C: 210±50; 126±43; 222±50
QUAD D: 252±56; 326±58; 255±54
QUAD E: 318±56; 272±54; 276±57
QUAD F: 292±57; 342±50; 277±58

XRF Values
XXX Pre-excavation
(XXX) Post Excavation

Approximate Scale
One Inch= 40'
N
20'
½ Inches



National Zinc Site Sketch

Name: Jerri Blazer + JOE Slamby

Date(s): 11/27/01 + 12/4/01

Address: 529 First ST
Cherryvale, KS
67335

XRF I.D. Operator

Pre-Removal: KDHE + START - see below JD

Post-Removal:

0-12"

12-24"

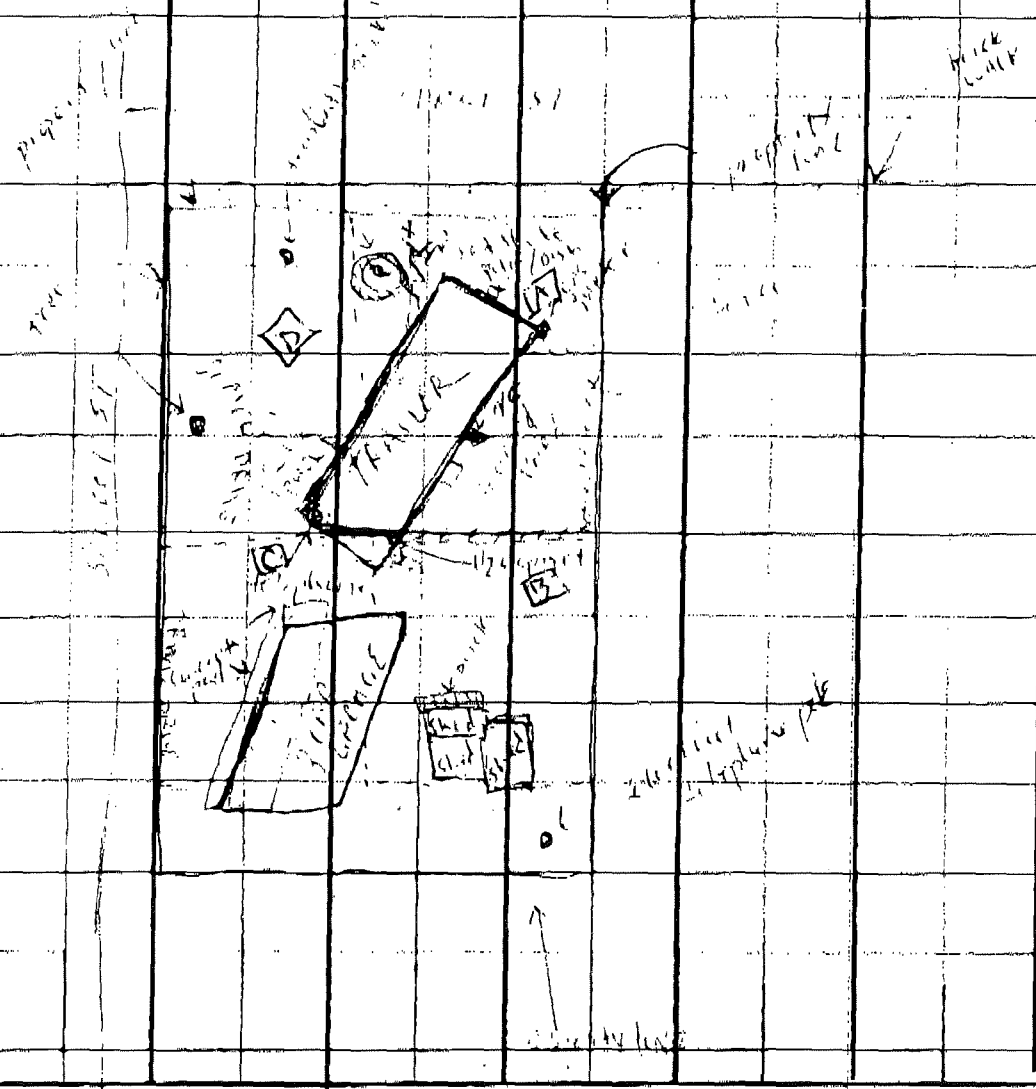
XRF Values
XXX Pre-excavation
(XXX) Post Excavation

Approximate Scale
One Inch= 40'
N
20'
½ Inches

12-4-01
1247

NOTE: [illegible]

POES SCREENING XRF READINGS
QUAD A: 57±36; 70±37; 64±37
QUAD B: 269±56; 168±42; 254±55
QUAD C: 55±36; 90± 42; 75±40
QUAD D: 195±45; 189±45; 128±45



100' x 154'

National Zinc Site Sketch

Name: Wagoner, Barry

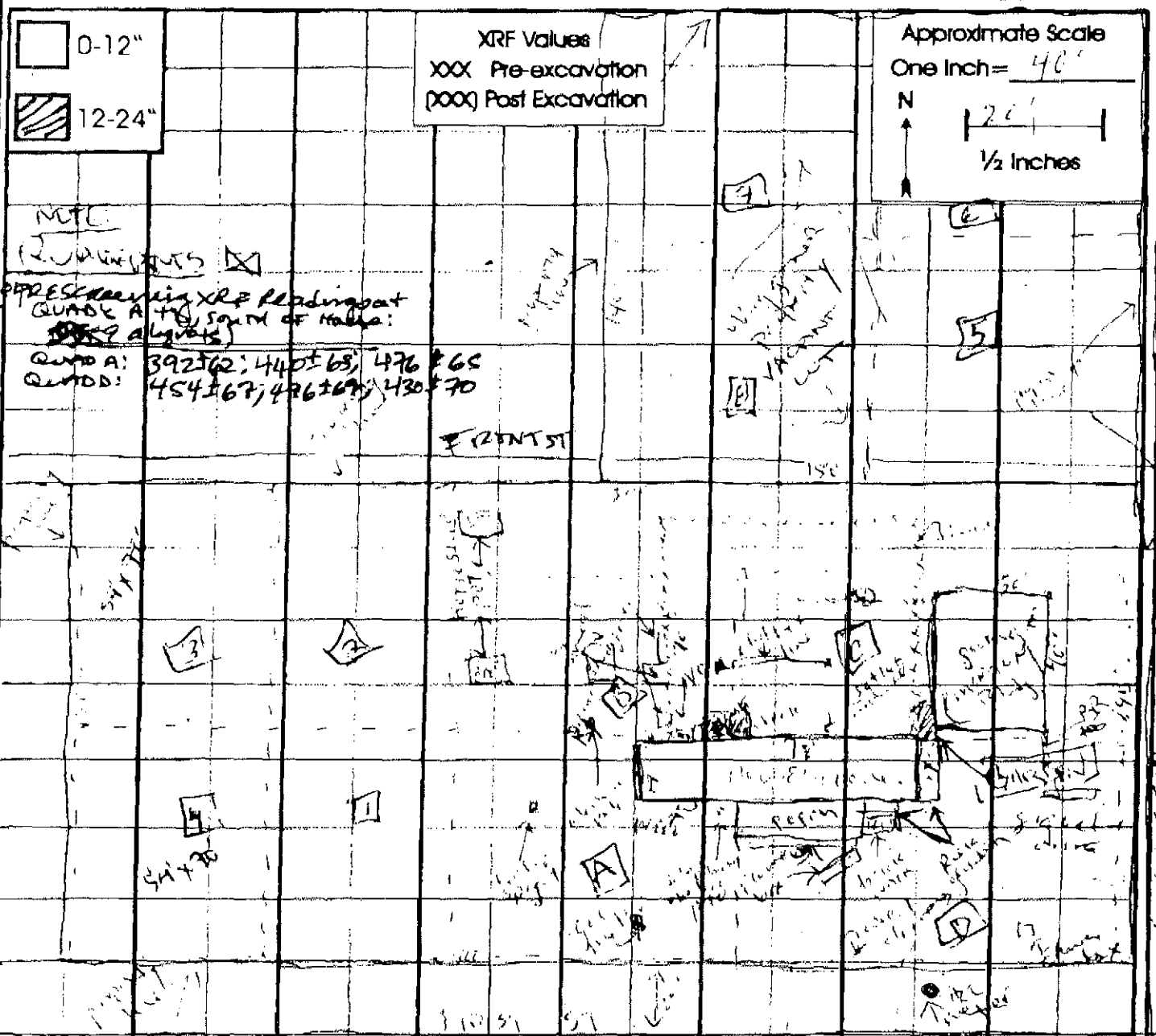
Date(s): 11/28/01

Address: 606 First St 4609 Front
Cherryvale KS
67335

XRF I.D. Operator

Pre-Removal: KDHE Except west lot, see below - DO

Post-Removal:



PRE-SCREENING XRF Readings at QUADS A + D, south of Hallie: (9 aliquots)
QUAD A: 392±62; 440±65; 476±65
QUAD D: 454±67; 496±69; 430±70

PRE-SCREENING XRF READINGS: (9 Aliquot composites)
QUAD #1: 398±84; 271±82; 316±87
QUAD #2: 600±80; 600±78; 574±79
QUAD #3: 287±51; 64±77; 501±64
QUAD #4: 397±60; 297±58; 417±60
QUAD #5: 616±82; 1200±130; 1200±120
QUAD #6: 966±99; 974±100; 918±97
QUAD #7: 1330±130; 1110±120; 934±100
QUAD #8: 1370±130; 1570±140; 1540±140

National Zinc Site Sketch

Name: MAGNUM,

Date(s): 11/30/01

Address: 0 MARTIN ST
Cherryvale, KS
67335

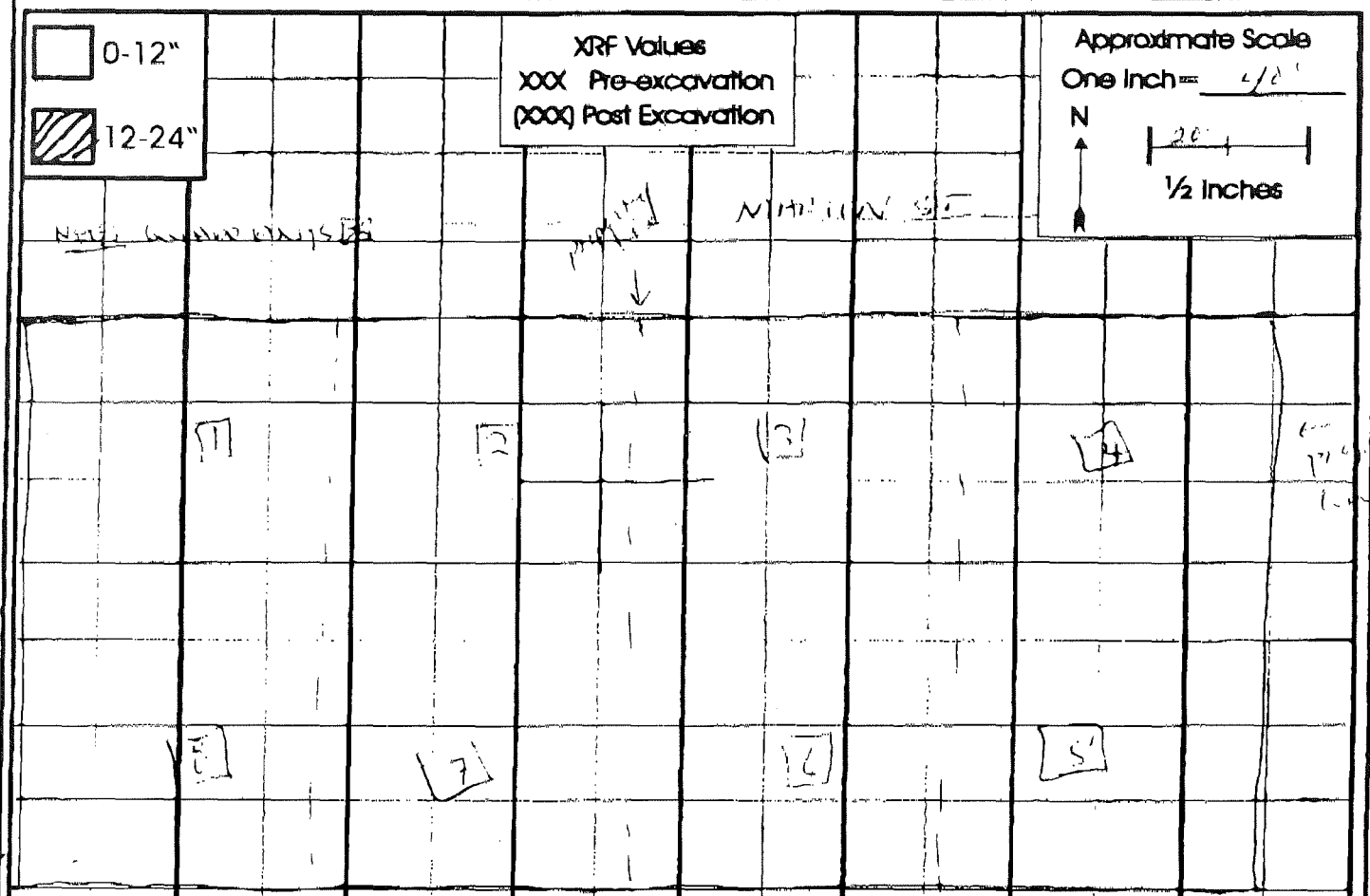
	XRF I.D.	Operator
Pre-Removal:	START - see below	ID
Post-Removal:		

0-12"

12-24"

XRF Values
XXX Pre-excavation
(XXX) Post Excavation

Approximate Scale
One Inch = 40'
N
20'
½ Inches



11.30.01
1400

NOTE: THERE IS A LOT OF DEBRIS IN YARD eg. glass, brick, metal

PRESCREENING XRF Readings are: QUAD 1: 978±86; 739±92; 867±88

QUAD 2: 1750 ± 130; 1800±130; 1700±130; 1600±130

QUAD 3: 1610±120; 1480±120; 1600±130

QUAD 4: 876± 98; 846±91; 982±99

QUAD 5: 906± 87; 1120± 160; 1040 ±96

QUAD 6: 1960± 140; 1550±130; 1820±130

QUAD 7: 2040 ± 140; 2480±160; 2200±150

QUAD 8: 1330±110; 1370±110; 1230±100

360' x 140'

National Zinc Site Sketch

Name: CANNON

Date(s): 11/29/01

Address: 638 W FIRST
Cherryvale, KS
67335

XRF I.D. Operator

Pre-Removal: KDHE + NORTH Vacant lot Except EMS lot — ID

Post-Removal: See below sketch

0-12"

12-24"

XRF Values
XXX Pre-excavation
(XXX) Post Excavation

Approximate Scale
One Inch = 40'
N
½ Inches

Preexcavation XRF Readings:
QUAD #1: 410 ± 72; 371 ± 86; 353 ± 77
QUAD #2: 102 ± 44; 399 ± 85; 346 ± 71
QUAD #3: 193 ± 50; 427 ± 73; 847 ± 97
QUAD #4: 534 ± 77; 406 ± 84; 340 ± 110
QUAD #5: 596 ± 74; 334 ± 57; 101 ± 43
QUAD #6: 537 ± 75; 220 ± 57; 203 ± 48
QUAD #7: 437 ± 61; 495 ± 77; 590 ± 7
QUAD #8: 345 ± 57; 202 ± 46; 116 ± 4

XRF READINGS - PRE EXCAVATION: BEYOND 50' FROM HOUSE (behind)
468 ± 100; 295 ± 78; 1590 ± 170
273 ± 110
not on property

W. CATTLE LINE ST

CLS Alley

50'

12/10/01 MON 08:59 [TX/RX NO 7556] 007

1730
11.29.01

PRE SCREENING XRF READINGS EAST OF CANNON'S VACANT LOT TO FENCE LINE OF 621 FRONT ST ARE: (not on property)

221±48; 314±63, 697±88; 354±56

11.30.01 9:50 pre-screening XRF readings on Quad's ↑ 400 ppm (9 aliquot) ARE:

1028 Quad #1: 493±67; 512±73; 502±68
1038 Quad #3: 679±79; 623±74; 627±75
1048 Quad #4: 674±75; 575±74; 724±82
1058 Quad #5: 472±63; 518±67; 504±68
1108 Quad #6: 511±75; 553±74; 475±65
11:18 Quad #7: 511±64; 600±70; 599±73

12.4.01 1549 Prescreening XRF readings on Quad's A+D (9 aliquot per quad): Front ½ of Quad only! (S.)

Quad A: 556±74; 566±73; 633±72
Quad D: 406±61; 485±66; 365±60

Pace Analytical™
www.pacelabs.com

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
Phone: 913.599.5665
Fax: 913.599.1759

January 04, 2002

Mr. RANDY BROWN
KDHE
BUILDING 740, FORBES FIELD
TOPEKA, KS 66620

RE: Lab Project Number: 6055101
Client Project ID: Cherryvale Yards

Dear Mr. BROWN:

Enclosed are the analytical results for sample(s) received by the laboratory on December 19, 2001. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

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

Sincerely,

Angie Brown
angela.brown@pacelabs.com
Project Manager

Kansas/NELAP Certification Number E-10116

Enclosures

RECEIVED
JAN 08 2002
BUREAU OF
ENVIRONMENTAL REMEDIATION

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc.

ACCREDITED IN ACCORDANCE WITH nelac

Pace Analytical™
www.pacelabs.com

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
Phone: 913.599.5665
Fax: 913.599.1759

KDHE
BUILDING 740, FORBES FIELD
TOPEKA, KS 66620

Lab Project Number: 6055101
Client Project ID: Cherryvale Yards

Attn: Mr. RANDY BROWN
Phone: (785)296-8065

Solid results are reported on a dry weight basis

Lab Sample No: 604800268 | Project Sample Number: 6055101-001 | Date Collected: 12/18/01 12:45
Client Sample ID: 271-A | Matrix: Soil | Date Received: 12/19/01 11:45

Parameters	Results	Units	Report Limit	Dilution	Analyzed		CAS No.	Ftnote	Req Limit
Metals									
Metals-Standard ICP, Soil	Prep/Method: EPA 3050 / EPA 6010								
Arsenic	ND	mg/kg	11.1	1.0	01/02/02	JLG	7440-38-2		
Barium	84.6	mg/kg	0.520	1.0	01/02/02	JLG	7440-39-3		
Cadmium	4.34	mg/kg	0.650	1.0	01/02/02	JLG	7440-43-9		
Chromium	16.3	mg/kg	0.911	1.0	01/02/02	JLG	7440-47-3		
Lead	103.	mg/kg	6.50	1.0	01/02/02	JLG	7439-92-1		
Selenium	ND	mg/kg	13.0	1.0	01/02/02	JLG	7782-49-2		
Silver	ND	mg/kg	0.911	1.0	01/02/02	JLG	7440-22-4		
Date Digested					12/26/01				
Mercury, Soil CVAAS	Prep/Method: EPA 7471 / EPA 7471								
Mercury	ND	mg/kg	0.188	0.9	12/29/01 08:24	SYW	7439-97-6		
Organics Prep									
Percent Moisture	Method:								
Percent Moisture	25.4	%		0.7	01/02/02	MIM			

RECEIVED
JAN 08 2002
BUREAU OF
ENVIRONMENTAL REMEDIATION

REPORT OF LABORATORY ANALYSIS
This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc.

ACCREDITED IN ACCORDANCE WITH nelac

Pace Analytical™
www.pacelabs.com

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
Phone: 913.599.5665
Fax: 913.599.1759

Lab Project Number: 6055101
Client Project ID: Cherryvale Yards

Lab Sample No: 604800276 | Project Sample Number: 6055101-002 | Date Collected: 12/18/01 13:15
Client Sample ID: S399 RO 5050 | Matrix: Soil | Date Received: 12/19/01 11:45

Parameters	Results	Units	Report Limit	Dilution	Analyzed		CAS No.	Ftnote	Reg Limit
Metals									
Metals-Standard ICP, Soil	Prep/Method: EPA 3050 / EPA 6010								
Arsenic	19.8	mg/kg	12.1	1.0	01/02/02	JLG	7440-38-2		
Barium	470.	mg/kg	0.568	1.0	01/02/02	JLG	7440-39-3		
Cadmium	22.3	mg/kg	0.710	1.0	01/02/02	JLG	7440-43-9		
Chromium	29.5	mg/kg	0.994	1.0	01/02/02	JLG	7440-47-3		
Lead	1210	mg/kg	7.10	1.0	01/02/02	JLG	7439-92-1		
Selenium	ND	mg/kg	14.2	1.0	01/02/02	JLG	7782-49-2		
Silver	3.52	mg/kg	0.994	1.0	01/02/02	JLG	7440-22-4		
Date Digested					12/26/01				
Mercury, Soil CVAAS	Prep/Method: EPA 7471 / EPA 7471								
Mercury	0.384	mg/kg	0.223	1.0	12/29/01 08:26	SYW	7439-97-6		
Organics Prep									
Percent Moisture	Method:								
Percent Moisture	31.0	%		0.7	01/02/02	MIM			

RECEIVED
JAN 08 2002
BUREAU OF
ENVIRONMENTAL REMEDIATION

REPORT OF LABORATORY ANALYSIS
This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc.

ACCREDITED IN ACCORDANCE WITH nelac

Pace Analytical™
www.pacelabs.com

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
Phone: 913.599.5665
Fax: 913.599.1759

Lab Project Number: 6055101
Client Project ID: Cherryvale Yards

PARAMETER FOOTNOTES

ND Not detected at or above adjusted reporting limit
NC Not Calculable
J Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit

RECEIVED
JAN 08 2002
BUREAU OF
ENVIRONMENTAL REMEDIATION

REPORT OF LABORATORY ANALYSIS
This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc.

ACCREDITED IN ACCORDANCE WITH nelac

Pace Analytical™
www.pacelabs.com

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
Phone: 913.599.5665
Fax: 913.599.1759

QUALITY CONTROL DATA

Lab Project Number: 6055101
Client Project ID: Cherryvale Yards

QC Batch: 115039 — Analysis Method: EPA 7471
QC Batch Method: EPA 7471 — Analysis Description: Mercury, Soil CVAAS
Associated Lab Samples: 604800268 604800276

METHOD BLANK: 604813097
Associated Lab Samples: 604800268 604800276

Parameter	Units	Blank Result	Reporting Limit	Footnotes
Mercury	mg/kg	ND	0.123	

LABORATORY CONTROL SAMPLE: 604813105

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	Footnotes
Mercury	mg/kg	0.6522	0.6721	103	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 604813113 604813121

Parameter	Units	604811364 Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	RPD	Footnotes
Mercury	mg/kg	0.1591	0.7143	0.8875	0.7474	102	86	17	

RECEIVED
JAN 08 2002
BUREAU OF
ENVIRONMENTAL REMEDIATION

REPORT OF LABORATORY ANALYSIS
This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc.

ACCREDITED IN ACCORDANCE WITH nelac

Pace Analytical™
www.pacelabs.com

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
Phone: 913.599.5665
Fax: 913.599.1759

QUALITY CONTROL DATA

Lab Project Number: 6055101
Client Project ID: Cherryvale Yards

QC Batch: 114906 Analysis Method: EPA 6010
QC Batch Method: EPA 3050 Analysis Description: Metals-Standard ICP, Soil
Associated Lab Samples: 604800268 604800276

METHOD BLANK: 604808923
Associated Lab Samples: 604800268 604800276

Parameter	Units	Blank Result	Reporting Limit	Footnotes
Arsenic	mg/kg	ND	8.17	
Barium	mg/kg	ND	0.385	
Cadmium	mg/kg	ND	0.481	
Chromium	mg/kg	ND	0.673	
Lead	mg/kg	ND	4.81	
Selenium	mg/kg	ND	9.62	
Silver	mg/kg	ND	0.673	

RECEIVED
JAN 08 2002
BUREAU OF
ENVIRONMENTAL REMEDIATION

LABORATORY CONTROL SAMPLE: 604808956

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	Footnotes
Arsenic	mg/kg	95.24	84.61	89	
Barium	mg/kg	95.24	84.86	89	
Cadmium	mg/kg	9.524	8.082	85	
Chromium	mg/kg	95.24	84.46	89	
Lead	mg/kg	95.24	82.36	86	
Selenium	mg/kg	95.24	80.11	84	
Silver	mg/kg	9.524	8.409	88	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 604808931 604808949

Parameter	Units	604798231 Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	RPD	Footnotes
Arsenic	mg/kg	0	9.960	7.873	8.131	79	82	3	1
Barium	mg/kg	41.61	9.960	49.23	48.74	76	72	1	
Cadmium	mg/kg	0.2516	0.9960	0.9834	1.011	74	76	3	
Chromium	mg/kg	5.526	9.960	13.04	13.48	75	80	3	

REPORT OF LABORATORY ANALYSIS
This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc.

ACCREDITED IN ACCORDANCE WITH nelac

Pace Analytical™
www.pacelabs.com

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
Phone: 913.599.5665
Fax: 913.599.1759

QUALITY CONTROL DATA

Lab Project Number: 6055101
Client Project ID: Cherryvale Yards

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 604808931 604808949

Parameter	Units	604798231 Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	RPD	Footnotes
Lead	mg/kg	3.694	9.960	10.68	10.98	70	73	3	
Selenium	mg/kg	0.3739	9.960	7.761	8.033	74	77	3	
Silver	mg/kg	2.281	0.9960	3.476	3.645	120	137	5	

RECEIVED
JAN 08 2002
BUREAU OF
ENVIRONMENTAL EDUCATION

REPORT OF LABORATORY ANALYSIS
This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc.

ACCREDITED IN ACCORDANCE WITH nelac

Pace Analytical
www.pacelabs.com

QUALITY CONTROL DATA

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
Phone: 913.599.5665
Fax: 913.599.1759

Lab Project Number: 6055101
Client Project ID: Cherryvale Yards

QC Batch: 115087 Analysis Method:
QC Batch Method: Analysis Description: Percent Moisture
Associated Lab Samples: 604800268 604800276

SAMPLE DUPLICATE: 604813980

Parameter	Units	604801837 Result	DUP Result	RPD	Footnotes
Percent Moisture	%	17.70	17.80	1	

RECEIVED
JAN 08 2002
BUREAU OF
ENVIRONMENTAL REMEDIATION

REPORT OF LABORATORY ANALYSIS
This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc.
ACCREDITED IN ACCORDANCE WITH nelac

Pace Analytical™
www.pacelabs.com

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
Phone: 913.599.5665
Fax: 913.599.1759

Lab Project Number: 6055101
Client Project ID: Cherryvale Yards

QUALITY CONTROL DATA PARAMETER FOOTNOTES

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

LCS(D) Laboratory Control Sample (Duplicate)
MS(D) Matrix Spike (Duplicate)
DUP Sample Duplicate
ND Not detected at or above adjusted reporting limit
NC Not Calculable
J Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit
RPD Relative Percent Difference
[1] MS/MSD was not within control limits due to sample matrix interferences. The results were accepted based on LCS percent recoveries and RPD values. Affected analytes: Ba, Cd, Pb, Se, Ag, and Zn

RECEIVED
JAN 08 2002
BUREAU OF
ENVIRONMENTAL REMEDIATION

REPORT OF LABORATORY ANALYSIS
This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc.

ACCREDITED IN ACCORDANCE WITH nelac

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
Phone: 913.599.5665
Fax: 913.599.1759

QUALITY CONTROL DATA

CROSS REFERENCE TABLE

KDHE
BUILDING 740, FORBES FIELD
TOPEKA, KS 66620

Lab Project Number: 6055101
Client Project ID: Cherryvale Yards

Attn: Mr. RANDY BROWN
Phone: (785)296-8065

Lab Sample No Identifier	Client Sample Identifier	QC Batch Method	QC Batch Identifier	Analytical Method	Analytical Batch Identifier
604800268	271-A	EPA 7471	115039		
604800276	S399 R0 5050	EPA 7471	115039		
604800268	271-A	EPA 3050	114906	EPA 6010	114974
604800276	S399 R0 5050	EPA 3050	114906	EPA 6010	114974
604800268	271-A		115087		
604800276	S399 R0 5050		115087		

RECEIVED
JAN 08 2002
BUREAU OF
ENVIRONMENTAL REMEDIATION

REPORT OF LABORATORY ANALYSIS
This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc.

Pace Analytical™
www.pacelabs.com

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

634761

Page: 1 of 1

Required Client Information: **Section A**

Company: KDHE
Address: Signature Building Suite 410
Phone: (785) 291-8016 Fax: (785) 291-7030

Required Client Information: **Section B**

Report To: Randy Brown/KDHE
Copy To:
Invoice To: Kathy Lewis/KDHE
P.O.
Project Name: Chemical Vards
Project Number:

Client Information (Check quote/contract):
Requested Due Date: STANDARD
*TAT:

* Turn around times less than 14 days subject to laboratory and contractual obligations and may result in a Rush Turnaround Surcharge.
Turn Around Time (TAT) in calendar days.

To Be Completed by Pace Analytical and Client **Section C**

Quote Reference:
Project Manager:
Project #: 605510 1
Profile #:
Requested Analysis:

Section D **Required** Client Information:

SAMPLE ID
One character per box.
(A–Z, 0–9 / .–)
Sample IDs MUST BE UNIQUE

Valid Matrix Codes

MATRIX	CODE
WATER	WT
SOIL	SL
OIL	OL
WIPE	WP
AIR	AR
TISSUE	TS
OTHER	OT

ITEM #	SAMPLE ID	MATRIX CODE	DATE COLLECTED (mm / dd / yy)	TIME COLLECTED (hh:mm a/p)	# Containers	Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Remarks / Lab ID
1	271-A (Cu)	SL	12/18/01	1245	1	X							X	604800266
2	5399 RD 5050 ↓	SL	12/18/01	1315	1	X							X	276
3														
4														
5														
6														
7														
8														
9														
10														
11														
12														

SHIPMENT METHOD	AIRBILL NO.	SHIPPING DATE	NO. OF COOLERS

ITEM NUMBER	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
	Randy Brown/KDHE	12/18/01	1145	Wayne/Pace	12/18/01	1145

SAMPLE CONDITION

Temp in °C	
Received on Ice	Y/N
Sealed Cooler	Y/N
Samples Intact	Y/N

Additional Comments:

SAMPLE NOTES

RECEIVED
JAN 08 2002
BUREAU OF ENVIRONMENTAL REMEDIATION

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER:

SIGNATURE of SAMPLER: DATE Signed: (MM / DD / YY)

SEE REVERSE SIDE FOR INSTRUCTIONS

Form COC01 Rev 0601

DIVISION OF HEALTH & ENVIRONMENTAL LABORATORIES
Kansas Department of Health and Environment
Forbes Field, Bldg. 740, Topeka, Kansas 66620-0001

REPORT OF ANALYSIS

RECEIVED
NOV 30 2001
BUREAU OF ENVIRONMENTAL REMEDIATION

INORGANIC CHEMISTRY

Report To: Bureau of Env. Remediation
Signature Bldg. 4th Floor
ATTN: Randy Brown
Topeka KS 66620

Lab Number: 200861PT

Site ID: 4EM80
Account Code: EP

Collection Location: Cherryvale Residential Yards Rinsate

Collector: Randy Brown
Matrix: Water
Collect Depth:
Date/Time Collected: 10/31/01 14:10
Date/Time Received: 11/09/01 13:28

Sample Comments: Water sample Received in glass Bottle.

Parameter		Analytical Result	Units	Analysis Date	Analytical Method
Aluminum		0.102	mg/L	11/27/01	EPA 200.7
Antimony	<	0.050	mg/L	11/27/01	EPA 200.7
Arsenic	<	0.050	mg/L	11/27/01	EPA 200.7
Barium	<	0.005	mg/L	11/27/01	EPA 200.7
Beryllium	<	0.001	mg/L	11/27/01	EPA 200.7
Boron		0.014	mg/L	11/27/01	EPA 200.7
Cadmium	<	0.005	mg/L	11/27/01	EPA 200.7
Calcium		0.87	mg/L	11/27/01	EPA 200.7
Chromium	<	0.010	mg/L	11/27/01	EPA 200.7
Cobalt	<	0.010	mg/L	11/27/01	EPA 200.7
Copper	<	0.010	mg/L	11/27/01	EPA 200.7
Iron		0.052	mg/L	11/27/01	EPA 200.7
Lead	<	0.050	mg/L	11/27/01	EPA 200.7
Magnesium		0.06	mg/L	11/27/01	EPA 200.7
Manganese	<	0.005	mg/L	11/27/01	EPA 200.7
Molybdenum	<	0.020	mg/L	11/27/01	EPA 200.7
Nickel	<	0.005	mg/L	11/27/01	EPA 200.7
Potassium		0.09	mg/L	11/27/01	EPA 200.7
Selenium	<	0.050	mg/L	11/27/01	EPA 200.7
Silica		0.514	mg/L	11/27/01	EPA 200.7
Silver	<	0.010	mg/L	11/27/01	EPA 200.7
Sodium		4.26	mg/L	11/27/01	EPA 200.7
Thallium	<	0.050	mg/L	11/27/01	EPA 200.7
Vanadium	<	0.005	mg/L	11/27/01	EPA 200.7
Zinc	<	0.005	mg/L	11/27/01	EPA 200.7

Reporting Analyst: REH
Date Reported: 11/30/01

< - Not Detected at Indicated Level
* - Holding Time Exceeded

Copies To: File

DIVISION OF HEALTH & ENVIRONMENTAL LABORATORIES
Kansas Department of Health and Environment
Forbes Field, Bldg. 740, Topeka, Kansas 66620-0001

REPORT OF ANALYSIS

INORGANIC CHEMISTRY

Report To: Bureau of Env. Remediation
Forbes Field, Bldg. 740
Attn: Randy Brown
Topeka KS 66620

Lab Number: 200911PT
Site ID: 4EM80
Account Code: EP

Collection Location: Cherryvale Yards, Rinsate #2

Collector: Randy Brown-BER
Matrix: Water
Collect Depth:
Date/Time Collected: 11/15/01 11:15
Date/Time Received: 11/19/01 10:50

Sample Comments: received sample in glass jar (acidified)

Parameter		Analytical Result	Units	Analysis Date	Analytical Method
Aluminum	<	0.050	mg/L	12/04/01	EPA 200.7
Antimony	<	0.050	mg/L	12/04/01	EPA 200.7
Arsenic	<	0.050	mg/L	12/04/01	EPA 200.7
Barium	<	0.005	mg/L	12/04/01	EPA 200.7
Beryllium	<	0.001	mg/L	12/04/01	EPA 200.7
Boron		0.015	mg/L	12/04/01	EPA 200.7
Cadmium	<	0.005	mg/L	12/04/01	EPA 200.7
Calcium		0.85	mg/L	12/04/01	EPA 200.7
Chromium	<	0.010	mg/L	12/04/01	EPA 200.7
Cobalt	<	0.010	mg/L	12/04/01	EPA 200.7
Copper		0.013	mg/L	12/04/01	EPA 200.7
Iron		0.088	mg/L	12/04/01	EPA 200.7
Lead	<	0.050	mg/L	12/04/01	EPA 200.7
Magnesium		0.28	mg/L	12/04/01	EPA 200.7
Manganese		0.022	mg/L	12/04/01	EPA 200.7
Molybdenum	<	0.020	mg/L	12/04/01	EPA 200.7
Nickel	<	0.005	mg/L	12/04/01	EPA 200.7
Potassium		0.09	mg/L	12/04/01	EPA 200.7
Selenium	<	0.050	mg/L	12/04/01	EPA 200.7
Silica		0.534	mg/L	12/04/01	EPA 200.7
Silver	<	0.010	mg/L	12/04/01	EPA 200.7
Sodium		2.46	mg/L	12/04/01	EPA 200.7
Thallium	<	0.050	mg/L	12/04/01	EPA 200.7
Vanadium	<	0.005	mg/L	12/04/01	EPA 200.7
Zinc		0.008	mg/L	12/04/01	EPA 200.7

Reporting Analyst: REH
Date Reported: 12/06/01

< - Not Detected at Indicated Level
* - Holding Time Exceeded

Copies To: File

RECEIVED
DEC 7 2001
BUREAU OF
ENVIRONMENTAL REMEDIATION

Kansas Department of Health and Environment
Division of Health and Environmental Laboratories
Forbes Field, Building 740
Topeka, Kansas 66620-0001

200846PT

Lab Number: _____
Date Received: _____
Analysis Code: _____

Sample Submission Form

Report To: RANDY BROWN/BER Address: 4th FLOOR SIGNATURE BUILDING

Collection Site: CHERRYVALE RESIDENTIAL YARDS Vacant Lot 515527
Legal | Project Code | Name | PWS Acct. No.

Site ID Number: ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ Collection Depth: ___ Feet

Sample Type: Water (Soil) Sediment Sludge Air Oil Solid Liquid Wipe Priority: Regular Moderate (Urgent)

Sample Collector: RANDOLPH BROWN KDHE/BER Date: 11-08-01 Time: 1215
Name | Agency (Abbr) | Mo Day Yr | 24 Hour

Program Code:

EA	EB	EC	ED	EE	EF	EG	EH	EK	EL	EM	EN	(EP)	ET	EW	EX	EZ
ES	FK	LM	SC	SE	SG	SN	SP	SW	PC	PD	PE	PG	PI	PL	PP	PT
PU	PV	WE	WI	HD	HF	HL	HS	RP	AR	GS	KC	US	AQ	RT	WC	

Organic Chemistry Laboratory

Check Desired Analysis: ☐ Other _____ VOC Sample Acidified: ☐

☐ Volatiles Method: ☐ 624 ☐ 8260 ☐ 524.2 ☐ Pesticides Method: ☐ 608 ☐ 8080 ☐ 507/8

☐ Acids Method: ☐ 625 ☐ 8270 ☐ Base/Neutrals Method: ☐ 625 ☐ 8270 ☐ 525.2

☐ PCB's Method: ☐ 608 ☐ 8080 ☐ Oil ☐ Herbicides Method: ☐ 615 ☐ 8150 ☐ 515.1

Inorganic Chemistry Laboratory

Bottle Nos.: Chem _____ DO _____ NUT _____ HM _____ CN _____ O&G _____ Phenol _____

Check Desired Analysis: ☐ Other _____

☒ Metals ☐ Mercury ☐ Mineral ☐ TCLP

Radiation Chemistry Laboratory

Check Desired Analysis: ☐ Other _____

☐ Gross Alpha ☐ Gross Uranium ☐ Ra-226 ☐ Ra-228

Sample Comments: NEED RESULTS BY 11/22 FOR YARD REMOVAL PROJECT

Chain of Custody:

Date 11/9/01 Relinquished By [signature] Received By [signature]

Date _____ Relinquished By _____ Received By _____

Date _____ Relinquished By _____ Received By _____

DIV. OF H&E LABORATORIES
2001 NOV -9 PM 1:19

Additional Reports Routed To:

Name _____ Address _____

Name _____ Address _____

Name _____ Address _____

DHEL-01/2001 *Instructions for this form are printed on the reverse side*

Kansas Department of Health and Environment
Division of Health and Environmental Laboratories
Forbes Field, Building 740
Topeka, Kansas 66620-0001

200847PT

Lab Number: _____
Date Received: _____
Analysis Code: _____

Sample Submission Form

Report To: RANDY BROWN/BER Address: 4th FLOOR SIGNATURE BUILDING

Collection Site: CHERRYVALE RESIDENTIAL YARDS 612 W. 2nd
Legal | Project Code | Name | PWS Acct. No.

Site ID Number: ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ Collection Depth: ___ ___ ___ Feet

Sample Type: Water (Soil) Sediment Sludge Air Oil Solid Liquid Wipe Priority: Regular Moderate (Urgent)

Sample Collector: RANDOLPH L BROWN KDHE/BER Date: 11-08-01 Time: 1430
Name | Agency (Abbr) | Mo Day Yr | 24 Hour

Program Code:

EA	EB	EC	ED	EE	EF	EG	EH	EK	EL	EM	EN	(EP)	ET	EW	EX	EZ
ES	FK	LM	SC	SE	SG	SN	SP	SW	PC	PD	PE	PG	PI	PL	PP	PT
PU	PV	WE	WI	HD	HF	HL	HS	RP	AR	GS	KC	US	AQ	RT	WC	

Organic Chemistry Laboratory

Check Desired Analysis: ☐ Other _____ VOC Sample Acidified: ☐

☐ Volatiles Method: ☐ 624 ☐ 8260 ☐ 524.2 ☐ Pesticides Method: ☐ 608 ☐ 8080 ☐ 507/8

☐ Acids Method: ☐ 625 ☐ 8270 ☐ Base/Neutrals Method: ☐ 625 ☐ 8270 ☐ 525.2

☐ PCB's Method: ☐ 608 ☐ 8080 ☐ Oil ☐ Herbicides Method: ☐ 615 ☐ 8150 ☐ 515.1

Inorganic Chemistry Laboratory

Bottle Nos.: Chem _____ DO _____ NUT _____ HM _____ CN _____ O&G _____ Phenol _____

Check Desired Analysis: ☐ Other _____

☒ Metals ☐ Mercury ☐ Mineral ☐ TCLP

Radiation Chemistry Laboratory

Check Desired Analysis: ☐ Other _____

☐ Gross Alpha ☐ Gross Uranium ☐ Ra-226 ☐ Ra-228

Sample Comments: NEED RESULTS BY 11/22 FOR YARD REMOVAL PROJECT

Chain of Custody:

Date 11/8/01 Relinquished By Randolph L Brown Received By GMA

Date _____ Relinquished By _____ Received By _____

Date _____ Relinquished By _____ Received By _____

DIV. OF H&E LABORATORIES
2001 NOV -9 PM 1:19

Additional Reports Routed To:

Name _____ Address _____

Name _____ Address _____

Name _____ Address _____

DHEL-01/2001 *Instructions for this form are printed on the reverse side*

Kansas Department of Health and Environment
Division of Health and Environmental Laboratories
Forbes Field, Building 740
Topeka, Kansas 66620-0001

200848PT

Lab Number: _____
Date Received: _____
Analysis Code: _____

Sample Submission Form

Report To: RANDY BROWN/BER Address: 4th Floor Signature Building

Collection Site: CHERRYVALE RESIDENTIAL YARDS 604 W 2nd
Legal | Project Code | Name | PWS Acct. No.

Site ID Number: ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ Collection Depth: ___ ___ ___ Feet

Sample Type: Water (Soil) Sediment Sludge Air Oil Solid Liquid Wipe Priority: Regular Moderate (Urgent)

Sample Collector: RANDOLAL L BROWN KDHE/BER Date: 11-08-01 Time: 1430
Name | Agency (Abbr) | Mo Day Yr | 24 Hour

Program Code:

EA	EB	EC	ED	EE	EF	EG	EH	EK	EL	EM	EN	(EP)	ET	EW	EX	EZ
ES	FK	LM	SC	SE	SG	SN	SP	SW	PC	PD	PE	PG	PI	PL	PP	PT
PU	PV	WE	WI	HD	HF	HL	HS	RP	AR	GS	KC	US	AQ	RT	WC	

Organic Chemistry Laboratory

Check Desired Analysis: ☐ Other _____ VOC Sample Acidified: ☐

☐ Volatiles Method: ☐ 624 ☐ 8260 ☐ 524.2 ☐ Pesticides Method: ☐ 608 ☐ 8080 ☐ 507/8

☐ Acids Method: ☐ 625 ☐ 8270 ☐ Base/Neutrals Method: ☐ 625 ☐ 8270 ☐ 525.2

☐ PCB's Method: ☐ 608 ☐ 8080 ☐ Oil ☐ Herbicides Method: ☐ 615 ☐ 8150 ☐ 515.1

Inorganic Chemistry Laboratory

Bottle Nos.: Chem _____ DO _____ NUT _____ HM _____ CN _____ O&G _____ Phenol _____

Check Desired Analysis: ☐ Other _____

☒ Metals ☐ Mercury ☐ Mineral ☐ TCLP

Radiation Chemistry Laboratory

Check Desired Analysis: ☐ Other _____

☐ Gross Alpha ☐ Gross Uranium ☐ Ra-226 ☐ Ra-228

Sample Comments: NEED RESULTS BY 11/22 FOR YARD REMOVAL PROJECT

Chain of Custody:

Date 11/09/01 Relinquished By Randolph L Brown Received By [signature]

Date _____ Relinquished By _____ Received By _____

Date _____ Relinquished By _____ Received By _____

DIV. OF H&E LABORATORIES
2001 NOV -9 PM 1:19

Additional Reports Routed To:

Name _____ Address _____

Name _____ Address _____

Name _____ Address _____

DHEL-01/2001 *Instructions for this form are printed on the reverse side*

Kansas Department of Health and Environment
Division of Health and Environmental Laboratories
Forbes Field, Building 740
Topeka, Kansas 66620-0001

200849PT

Lab Number: _____
Date Received: _____
Analysis Code: _____

Sample Submission Form

Report To: RANDY BROWN/BER Address: 4th FLOOR SIGNATURE BUILDING

Collection Site: CHERRYVALE RESIDENTAL YARDS 640 W 2nd
Legal | Project Code | Name | PWS Acct. No.

Site ID Number: ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ Collection Depth: __ __ __ __ Feet

Sample Type: Water (Soil) Sediment Sludge Air Oil Solid Liquid Wipe Priority: Regular Moderate (Urgent)

Sample Collector: RANDALL BROWN KDHE/BER Date: 11-08-01 Time: 1340
Name | Agency (Abbr) | Mo Day Yr | 24 Hour

Program Code:

EA	EB	EC	ED	EE	EF	EG	EH	EK	EL	EM	EN	(EP)	ET	EW	EX	EZ
ES	FK	LM	SC	SE	SG	SN	SP	SW	PC	PD	PE	PG	PI	PL	PP	PT
PU	PV	WE	WI	HD	HF	HL	HS	RP	AR	GS	KC	US	AQ	RT	WC	

Organic Chemistry Laboratory

Check Desired Analysis: ☐ Other _____ VOC Sample Acidified: ☐

☐ Volatiles Method: ☐ 624 ☐ 8260 ☐ 524.2 ☐ Pesticides Method: ☐ 608 ☐ 8080 ☐ 507/8

☐ Acids Method: ☐ 625 ☐ 8270 ☐ Base/Neutrals Method: ☐ 625 ☐ 8270 ☐ 525.2

☐ PCB's Method: ☐ 608 ☐ 8080 ☐ Oil ☐ Herbicides Method: ☐ 615 ☐ 8150 ☐ 515.1

Inorganic Chemistry Laboratory

Bottle Nos.: Chem _____ DO _____ NUT _____ HM _____ CN _____ O&G _____ Phenol _____

Check Desired Analysis: ☐ Other _____

☒ Metals ☐ Mercury ☐ Mineral ☐ TCLP

Radiation Chemistry Laboratory

Check Desired Analysis: ☐ Other _____

☐ Gross Alpha ☐ Gross Uranium ☐ Ra-226 ☐ Ra-228

Sample Comments: NEED RESULTS BY 11/22 FOR YARD REMOVAL PROJECT

Chain of Custody:

Date 11/09/01 Relinquished By [signature] Received By [signature]

Date _____ Relinquished By _____ Received By _____

Date _____ Relinquished By _____ Received By _____

DIV. OF H&E LABORATORIES 2001 NOV -9 PM 1:19

Additional Reports Routed To:

Name _____ Address _____

Name _____ Address _____

Name _____ Address _____

DHEL-01/2001 *Instructions for this form are printed on the reverse side*

200850PT

Kansas Department of Health and Environment
Division of Health and Environmental Laboratories
Forbes Field, Building 740
Topeka, Kansas 66620-0001

Lab Number: _____
Date Received: _____
Analysis Code: _____

Sample Submission Form

Report To: RANDY BROWN/BER Address: 4th FLOOR SIGNATURE BUILDING

Collection Site: CHERRYVALE RESIDENTIAL YARDS 614 W 2nd
Legal | Project Code | Name | PWS Acct. No.

Site ID Number: ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ Collection Depth: ___ ___ ___ ___ Feet

Sample Type: Water (Soil) Sediment Sludge Air Oil Solid Liquid Wipe Priority: Regular Moderate (Urgent)

Sample Collector: RANDOLPH L BROWN KDHE/BER Date: 11-08-01 Time: 1405
Name | Agency (Abbr) | Mo Day Yr | 24 Hour

Program Code:

EA	EB	EC	ED	EE	EF	EG	EH	EK	EL	EM	EN	(EP)	ET	EW	EX	EZ
ES	FK	LM	SC	SE	SG	SN	SP	SW	PC	PD	PE	PG	PI	PL	PP	PT
PU	PV	WE	WI	HD	HF	HL	HS	RP	AR	GS	KC	US	AQ	RT	WC	

Organic Chemistry Laboratory

Check Desired Analysis: ☐ Other _____ VOC Sample Acidified: ☐

☐ Volatiles Method: ☐ 624 ☐ 8260 ☐ 524.2 ☐ Pesticides Method: ☐ 608 ☐ 8080 ☐ 507/8

☐ Acids Method: ☐ 625 ☐ 8270 ☐ Base/Neutrals Method: ☐ 625 ☐ 8270 ☐ 525.2

☐ PCB's Method: ☐ 608 ☐ 8080 ☐ Oil ☐ Herbicides Method: ☐ 615 ☐ 8150 ☐ 515.1

Inorganic Chemistry Laboratory

Bottle Nos.: Chem _____ DO _____ NUT _____ HM _____ CN _____ O&G _____ Phenol _____

Check Desired Analysis: ☐ Other _____

☒ Metals ☐ Mercury ☐ Mineral ☐ TCLP

Radiation Chemistry Laboratory

Check Desired Analysis: ☐ Other _____

☐ Gross Alpha ☐ Gross Uranium ☐ Ra-226 ☐ Ra-228

Sample Comments: NEED RESULTS BY 11/22 FOR YARD REMOVAL PROJECT

Chain of Custody:

Date 11/09/01 Relinquished By [signature] Received By [signature]

Date _____ Relinquished By _____ Received By _____

Date _____ Relinquished By _____ Received By _____

DIV. OF H&E LABORATORIES 2001 NOV -9 PM 1:27

Additional Reports Routed To:

Name _____ Address _____

Name _____ Address _____

Name _____ Address _____

DHEL-01/2001 *Instructions for this form are printed on the reverse side*

Kansas Department of Health and Environment
Division of Health and Environmental Laboratories
Forbes Field, Building 740
Topeka, Kansas 66620-0001

200851PT

Lab Number: _____
Date Received: _____
Analysis Code: _____

Sample Submission Form

Report To: RANDY BROWN/BER Address: 4th FLOOR SIGNATURE BUILDING

Collection Site: CHERRYVALE RESIDENTIAL YARDS 635 W 1ST
Legal | Project Code | Name | PWS Acct. No.

Site ID Number: ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ Collection Depth: ___ ___ ___ Feet

Sample Type: Water (Soil) Sediment Sludge Air Oil Solid Liquid Wipe Priority: Regular Moderate (Urgent)

Sample Collector: RANDOLAL BROWN KDHE/BER Date: 11 - 08 - 01 Time: 1225
Name | Agency (Abbr) | Mo Day Yr | 24 Hour

Program Code:

EA	EB	EC	ED	EE	EF	EG	EH	EK	EL	EM	EN	(EP)	ET	EW	EX	EZ
ES	FK	LM	SC	SE	SG	SN	SP	SW	PC	PD	PE	PG	PI	PL	PP	PT
PU	PV	WE	WI	HD	HF	HL	HS	RP	AR	GS	KC	US	AQ	RT	WC	

Organic Chemistry Laboratory

Check Desired Analysis: ☐ Other _____ VOC Sample Acidified: ☐

☐ Volatiles Method: ☐ 624 ☐ 8260 ☐ 524.2 ☐ Pesticides Method: ☐ 608 ☐ 8080 ☐ 507/8

☐ Acids Method: ☐ 625 ☐ 8270 ☐ Base/Neutrals Method: ☐ 625 ☐ 8270 ☐ 525.2

☐ PCB's Method: ☐ 608 ☐ 8080 ☐ Oil ☐ Herbicides Method: ☐ 615 ☐ 8150 ☐ 515.1

Inorganic Chemistry Laboratory

Bottle Nos.: Chem _____ DO _____ NUT _____ HM _____ CN _____ O&G _____ Phenol _____

Check Desired Analysis: ☐ Other _____

☒ Metals ☐ Mercury ☐ Mineral ☐ TCLP

Radiation Chemistry Laboratory

Check Desired Analysis: ☐ Other _____

☐ Gross Alpha ☐ Gross Uranium ☐ Ra-226 ☐ Ra-228

Sample Comments: NEED RESULTS BY 11/22 FOR YARD REMOVAL PROJECT

Chain of Custody:

Date 11/09/01 Relinquished By [signature] Received By [signature]

Date _____ Relinquished By _____ Received By _____

Date _____ Relinquished By _____ Received By _____

DIV OF H&E LABORATORIES
2001 NOV -9 PM 1:27

Additional Reports Routed To:

Name _____ Address _____

Name _____ Address _____

Name _____ Address _____

DHEL-01/2001

Instructions for this form are printed on the reverse side

Kansas Department of Health and Environment
Division of Health and Environmental Laboratories
Forbes Field, Building 740
Topeka, Kansas 66620-0001

200852PT

Lab Number: _____
Date Received: _____
Analysis Code: _____

Sample Submission Form

Report To: RANDY BROWN/BER Address: 4th FLOOR SIGNATURE BUILDING

Collection Site: CHERRYVALE RESIDENTIAL YARDS 511 W 1ST
Legal | Project Code | Name | PWS Acct. No.

Site ID Number: ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ Collection Depth: ___ ___ ___ ___ Feet

Sample Type: Water (Soil) Sediment Sludge Air Oil Solid Liquid Wipe Priority: Regular Moderate (Urgent)

Sample Collector: RANDOLPH BROWN KDHE/BER Date: 11-08-01 (10/31/06) Time: 1335
Name | Agency (Abbr) | Mo Day Yr | 24 Hour

Program Code:

EA	EB	EC	ED	EE	EF	EG	EH	EK	EL	EM	EN	(EP)	ET	EW	EX	EZ
ES	FK	LM	SC	SE	SG	SN	SP	SW	PC	PD	PE	PG	PI	PL	PP	PT
PU	PV	WE	WI	HD	HF	HL	HS	RP	AR	GS	KC	US	AQ	RT	WC	

Organic Chemistry Laboratory

Check Desired Analysis: ☐ Other _____ VOC Sample Acidified: ☐

☐ Volatiles Method: ☐ 624 ☐ 8260 ☐ 524.2 ☐ Pesticides Method: ☐ 608 ☐ 8080 ☐ 507/8

☐ Acids Method: ☐ 625 ☐ 8270 ☐ Base/Neutrals Method: ☐ 625 ☐ 8270 ☐ 525.2

☐ PCB's Method: ☐ 608 ☐ 8080 ☐ Oil ☐ Herbicides Method: ☐ 615 ☐ 8150 ☐ 515.1

Inorganic Chemistry Laboratory

Bottle Nos.: Chem _____ DO _____ NUT _____ HM _____ CN _____ O&G _____ Phenol _____

Check Desired Analysis: ☐ Other _____

☒ Metals ☐ Mercury ☐ Mineral ☐ TCLP

Radiation Chemistry Laboratory

Check Desired Analysis: ☐ Other _____

☐ Gross Alpha ☐ Gross Uranium ☐ Ra-226 ☐ Ra-228

Sample Comments: NEED RESULTS BY 11/22 FOR YARD REMOVAL PROJECT

Chain of Custody:

Date 11/09/01 Relinquished By [signature] Received By [signature]

Date _____ Relinquished By _____ Received By _____

Date _____ Relinquished By _____ Received By _____

Additional Reports Routed To:

Name _____ Address _____

Name _____ Address _____

Name _____ Address _____

DIV. OF H&E LABORATORIES
2001 NOV -9 PM 1:27

DHEL-01/2001 *Instructions for this form are printed on the reverse side*

Kansas Department of Health and Environment
Division of Health and Environmental Laboratories
Forbes Field, Building 740
Topeka, Kansas 66620-0001

200853PT

Lab Number: _____
Date Received: _____
Analysis Code: _____

Sample Submission Form

Report To: RANDY BROWN/BER Address: 4th Floor Signature Building

Collection Site: CHERRYVALE RESIDENTIAL YARDS 527 W 1ST
Legal | Project Code | Name | PWS Acct. No.

Site ID Number: ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ Collection Depth: ___ ___ ___ ___ Feet

Sample Type: Water (Soil) Sediment Sludge Air Oil Solid Liquid Wipe Priority: Regular Moderate (Urgent)

Sample Collector: RANDOLPH L. BROWN KDHE/BER Date: 10/31/01 Time: 1400
Name | Agency (Abbr) | Mo Day Yr | 24 Hour

Program Code:

EA	EB	EC	ED	EE	EF	EG	EH	EK	EL	EM	EN	(EP)	ET	EW	EX	EZ
ES	FK	LM	SC	SE	SG	SN	SP	SW	PC	PD	PE	PG	PI	PL	PP	PT
PU	PV	WE	WI	HD	HF	HL	HS	RP	AR	GS	KC	US	AQ	RT	WC	

Organic Chemistry Laboratory

Check Desired Analysis: ☐ Other _____ VOC Sample Acidified: ☐

☐ Volatiles Method: ☐ 624 ☐ 8260 ☐ 524.2 ☐ Pesticides Method: ☐ 608 ☐ 8080 ☐ 507/8

☐ Acids Method: ☐ 625 ☐ 8270 ☐ Base/Neutrals Method: ☐ 625 ☐ 8270 ☐ 525.2

☐ PCB's Method: ☐ 608 ☐ 8080 ☐ Oil ☐ Herbicides Method: ☐ 615 ☐ 8150 ☐ 515.1

Inorganic Chemistry Laboratory

Bottle Nos.: Chem _____ DO _____ NUT _____ HM _____ CN _____ O&G _____ Phenol _____

Check Desired Analysis: ☐ Other _____

☒ Metals ☐ Mercury ☐ Mineral ☐ TCLP

Radiation Chemistry Laboratory

Check Desired Analysis: ☐ Other _____

☐ Gross Alpha ☐ Gross Uranium ☐ Ra-226 ☐ Ra-228

Sample Comments: NEED RESULTS BY 11/22 FOR YARD REMOVAL PROJECT

Chain of Custody:

Date 11/09/01 Relinquished By [signature] Received By [signature]

Date _____ Relinquished By _____ Received By _____

Date _____ Relinquished By _____ Received By _____

Additional Reports Routed To:

Name _____ Address _____

Name _____ Address _____

Name _____ Address _____

DIV. OF H&E LABORATORIES
2001 NOV -9 PM 1:27

DHEL-01/2001

Instructions for this form are printed on the reverse side

Kansas Department of Health and Environment
Division of Health and Environmental Laboratories
Forbes Field, Building 740
Topeka, Kansas 66620-0001

200854PT

Lab Number: _____
Date Received: _____
Analysis Code: _____

Sample Submission Form

Report To: RANDY BROWN/BER Address: 4th FLOOR SIGNATURE BUILDING

Collection Site: CHERRYVALE RESIDENTIAL YARDS 532 W 1st #3
Legal | Project Code | Name | PWS Acct. No.

Site ID Number: ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ Collection Depth: ___ Feet

Sample Type: Water (Soil) Sediment Sludge Air Oil Solid Liquid Wipe Priority: Regular Moderate (Urgent)

Sample Collector: RANDOLAH BROWN KDHE/BER Date: ~~11-08-01~~ 10/31/01 Time: 1315
Name | Agency (Abbr) | Mo Day Yr | 24 Hour

Program Code:

EA	EB	EC	ED	EE	EF	EG	EH	EK	EL	EM	EN	(EP)	ET	EW	EX	EZ
ES	FK	LM	SC	SE	SG	SN	SP	SW	PC	PD	PE	PG	PI	PL	PP	PT
PU	PV	WE	WI	HD	HF	HL	HS	RP	AR	GS	KC	US	AQ	RT	WC	

Organic Chemistry Laboratory

Check Desired Analysis: ☐ Other _____ VOC Sample Acidified: ☐

☐ Volatiles Method: ☐ 624 ☐ 8260 ☐ 524.2 ☐ Pesticides Method: ☐ 608 ☐ 8080 ☐ 507/8

☐ Acids Method: ☐ 625 ☐ 8270 ☐ Base/Neutrals Method: ☐ 625 ☐ 8270 ☐ 525.2

☐ PCB's Method: ☐ 608 ☐ 8080 ☐ Oil ☐ Herbicides Method: ☐ 615 ☐ 8150 ☐ 515.1

Inorganic Chemistry Laboratory

Bottle Nos.: Chem _____ DO _____ NUT _____ HM _____ CN _____ O&G _____ Phenol _____

Check Desired Analysis: ☐ Other _____

☒ Metals ☐ Mercury ☐ Mineral ☐ TCLP

Radiation Chemistry Laboratory

Check Desired Analysis: ☐ Other _____

☐ Gross Alpha ☐ Gross Uranium ☐ Ra-226 ☐ Ra-228

Sample Comments: NEED RESULTS BY 11/22 FOR YARD REMOVAL PROJECT

Chain of Custody:

Date 11/09/01 Relinquished By [signature] Received By [signature]

Date _____ Relinquished By _____ Received By _____

Date _____ Relinquished By _____ Received By _____

DIV. OF H&E LABORATORIES 2001 NOV -9 PM 1:27

Additional Reports Routed To:

Name _____ Address _____

Name _____ Address _____

Name _____ Address _____

DHEL-01/2001 *Instructions for this form are printed on the reverse side*

200855PT

Kansas Department of Health and Environment
Division of Health and Environmental Laboratories
Forbes Field, Building 740
Topeka, Kansas 66620-0001

Lab Number: _____
Date Received: _____
Analysis Code: _____

Sample Submission Form

Report To: RANDY BROWN/BER Address: 4th FLOOR SIGNATURE BUILDING

Collection Site: CHERRYVALE RESIDENTIAL YARDS 506 W 13th #1
Legal | Project Code | Name | PWS Acct. No.

Site ID Number: ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ Collection Depth: ___ ___ ___ ___ Feet

Sample Type: Water (Soil) Sediment Sludge Air Oil Solid Liquid Wipe Priority: Regular Moderate (Urgent)

Sample Collector: RANDOLPH L BROWN KDHE/BER Date: 11-08-01 Time: 1307
Name | Agency (Abbr) | Mo Day Yr | 24 Hour

Program Code:

EA	EB	EC	ED	EE	EF	EG	EH	EK	EL	EM	EN	(EP)	ET	EW	EX	EZ
ES	FK	LM	SC	SE	SG	SN	SP	SW	PC	PD	PE	PG	PI	PL	PP	PT
PU	PV	WE	WI	HD	HF	HL	HS	RP	AR	GS	KC	US	AQ	RT	WC	

Organic Chemistry Laboratory

Check Desired Analysis: ☐ Other _____ VOC Sample Acidified: ☐

☐ Volatiles Method: ☐ 624 ☐ 8260 ☐ 524.2 ☐ Pesticides Method: ☐ 608 ☐ 8080 ☐ 507/8

☐ Acids Method: ☐ 625 ☐ 8270 ☐ Base/Neutrals Method: ☐ 625 ☐ 8270 ☐ 525.2

☐ PCB's Method: ☐ 608 ☐ 8080 ☐ Oil ☐ Herbicides Method: ☐ 615 ☐ 8150 ☐ 515.1

Inorganic Chemistry Laboratory

Bottle Nos.: Chem _____ DO _____ NUT _____ HM _____ CN _____ O&G _____ Phenol _____

Check Desired Analysis: ☐ Other _____

☒ Metals ☐ Mercury ☐ Mineral ☐ TCLP

Radiation Chemistry Laboratory

Check Desired Analysis: ☐ Other _____

☐ Gross Alpha ☐ Gross Uranium ☐ Ra-226 ☐ Ra-228

Sample Comments: NEED RESULTS BY 11/22 FOR YARD REMOVAL PROJECT

Chain of Custody:

Date 11/09/01 Relinquished By [signature] Received By [signature]

Date _____ Relinquished By _____ Received By _____

Date _____ Relinquished By _____ Received By _____

DIV. OF H&E LABORATORIES 2001 NOV -9 PM 1:28

Additional Reports Routed To:

Name _____ Address _____

Name _____ Address _____

Name _____ Address _____

DHEL-01/2001 *Instructions for this form are printed on the reverse side*

Kansas Department of Health and Environment
Division of Health and Environmental Laboratories
Forbes Field, Building 740
Topeka, Kansas 66620-0001

200856PT

Lab Number: _____
Date Received: _____
Analysis Code: _____

Sample Submission Form

Report To: RANDY BROWN/BER Address: 4th FLOOR SIGNATURE BUILDING

Collection Site: CHERRYVALE RESIDENTIAL YARDS 630 W 2nd
Legal | Project Code | Name | PWS Acct. No.

Site ID Number: ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ Collection Depth: ___ ___ ___ Feet

Sample Type: Water (Soil) Sediment Sludge Air Oil Solid Liquid Wipe Priority: Regular Moderate (Urgent)

Sample Collector: RANDOLPH L BROWN KDHE/BER Date: 11-08-01 Time: 1345
Name | Agency (Abbr) | Mo Day Yr | 24 Hour

Program Code:

EA	EB	EC	ED	EE	EF	EG	EH	EK	EL	EM	EN	(EP)	ET	EW	EX	EZ
ES	FK	LM	SC	SE	SG	SN	SP	SW	PC	PD	PE	PG	PI	PL	PP	PT
PU	PV	WE	WI	HD	HF	HL	HS	RP	AR	GS	KC	US	AQ	RT	WC	

Organic Chemistry Laboratory

Check Desired Analysis: ☐ Other _____ VOC Sample Acidified: ☐

☐ Volatiles Method: ☐ 624 ☐ 8260 ☐ 524.2 ☐ Pesticides Method: ☐ 608 ☐ 8080 ☐ 507/8

☐ Acids Method: ☐ 625 ☐ 8270 ☐ Base/Neutrals Method: ☐ 625 ☐ 8270 ☐ 525.2

☐ PCB's Method: ☐ 608 ☐ 8080 ☐ Oil ☐ Herbicides Method: ☐ 615 ☐ 8150 ☐ 515.1

Inorganic Chemistry Laboratory

Bottle Nos.: Chem _____ DO _____ NUT _____ HM _____ CN _____ O&G _____ Phenol _____

Check Desired Analysis: ☐ Other _____

☒ Metals ☐ Mercury ☐ Mineral ☐ TCLP

Radiation Chemistry Laboratory

Check Desired Analysis: ☐ Other _____

☐ Gross Alpha ☐ Gross Uranium ☐ Ra-226 ☐ Ra-228

Sample Comments: NEED RESULTS BY 11/22 FOR YARD REMOVAL PROJECT

Chain of Custody:

Date 11/09/01 Relinquished By _____ Received By GMA

Date _____ Relinquished By _____ Received By _____

Date _____ Relinquished By _____ Received By _____

Additional Reports Routed To:

Name _____ Address _____

Name _____ Address _____

Name _____ Address _____

DIV. OF H&E LABORATORIES
2001 NOV -9 PM 1:28

DHEL-01/2001

Instructions for this form are printed on the reverse side

Kansas Department of Health and Environment
Division of Health and Environmental Laboratories
Forbes Field, Building 740
Topeka, Kansas 66620-0001

200857PT

Lab Number: _____
Date Received: _____
Analysis Code: _____

Sample Submission Form

Report To: RANDY BROWN/BER Address: 4th FLOOR SIGNATURE BUILDING

Collection Site: CHERRYVALE RESIDENTIAL YARDS 509 W 1st
Legal | Project Code | Name | PWS Acct. No.

Site ID Number: ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ Collection Depth: ___ ___ ___ ___ Feet

Sample Type: Water (Soil) Sediment Sludge Air Oil Solid Liquid Wipe Priority: Regular Moderate (Urgent)

Sample Collector: RANDOLPH L BROWN KDHE/BER Date: 11-08-01 (10/31/01) Time: 1410
Name | Agency (Abbr) | Mo Day Yr | 24 Hour

Program Code:

EA	EB	EC	ED	EE	EF	EG	EH	EK	EL	EM	EN	(EP)	ET	EW	EX	EZ
ES	FK	LM	SC	SE	SG	SN	SP	SW	PC	PD	PE	PG	PI	PL	PP	PT
PU	PV	WE	WI	HD	HF	HL	HS	RP	AR	GS	KC	US	AQ	RT	WC	

Organic Chemistry Laboratory

Check Desired Analysis: ☐ Other _____ VOC Sample Acidified: ☐

☐ Volatiles Method: ☐ 624 ☐ 8260 ☐ 524.2 ☐ Pesticides Method: ☐ 608 ☐ 8080 ☐ 507/8

☐ Acids Method: ☐ 625 ☐ 8270 ☐ Base/Neutrals Method: ☐ 625 ☐ 8270 ☐ 525.2

☐ PCB's Method: ☐ 608 ☐ 8080 ☐ Oil ☐ Herbicides Method: ☐ 615 ☐ 8150 ☐ 515.1

Inorganic Chemistry Laboratory

Bottle Nos.: Chem _____ DO _____ NUT _____ HM _____ CN _____ O&G _____ Phenol _____

Check Desired Analysis: ☐ Other _____

☒ Metals ☐ Mercury ☐ Mineral ☐ TCLP

Radiation Chemistry Laboratory

Check Desired Analysis: ☐ Other _____

☐ Gross Alpha ☐ Gross Uranium ☐ Ra-226 ☐ Ra-228

Sample Comments: NEED RESULTS BY 11/22 FOR YARD REMOVAL PROJECT

Chain of Custody:

Date 11/09/01 Relinquished By [signature] Received By [signature]

Date _____ Relinquished By _____ Received By _____

Date _____ Relinquished By _____ Received By _____

DIV. OF H&E LABORATORIES 2001 NOV -9 PM 1:28

Additional Reports Routed To:

Name _____ Address _____

Name _____ Address _____

Name _____ Address _____

DHEL-01/2001 *Instructions for this form are printed on the reverse side*

Kansas Department of Health and Environment
Division of Health and Environmental Laboratories
Forbes Field, Building 740
Topeka, Kansas 66620-0001

200858PT

Lab Number: _____
Date Received: _____
Analysis Code: _____

Sample Submission Form

Report To: RANDY BROWN/BER Address: 4th FLOOR SIGNATURE BUILDING

Collection Site: CHERRYVALE RESIDENTAL YARDS 500 W 1st
Legal | Project Code | Name | PWS Acct. No.

Site ID Number: ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ Collection Depth: ___ Feet

Sample Type: Water (Soil) Sediment Sludge Air Oil Solid Liquid Wipe Priority: Regular Moderate (Urgent)

Sample Collector: RANDOLPH L BROWN KDHE/BER Date: ~~11/09/01~~ 10/31/01 Time: 1305
Name | Agency (Abbr) | Mo Day Yr | 24 Hour

Program Code:

EA	EB	EC	ED	EE	EF	EG	EH	EK	EL	EM	EN	(EP)	ET	EW	EX	EZ
ES	FK	LM	SC	SE	SG	SN	SP	SW	PC	PD	PE	PG	PI	PL	PP	PT
PU	PV	WE	WI	HD	HF	HL	HS	RP	AR	GS	KC	US	AQ	RT	WC	

Organic Chemistry Laboratory

Check Desired Analysis: ☐ Other _____ VOC Sample Acidified: ☐

☐ Volatiles Method: ☐ 624 ☐ 8260 ☐ 524.2 ☐ Pesticides Method: ☐ 608 ☐ 8080 ☐ 507/8

☐ Acids Method: ☐ 625 ☐ 8270 ☐ Base/Neutrals Method: ☐ 625 ☐ 8270 ☐ 525.2

☐ PCB's Method: ☐ 608 ☐ 8080 ☐ Oil ☐ Herbicides Method: ☐ 615 ☐ 8150 ☐ 515.1

Inorganic Chemistry Laboratory

Bottle Nos.: Chem _____ DO _____ NUT _____ HM _____ CN _____ O&G _____ Phenol _____

Check Desired Analysis: ☐ Other _____

☒ Metals ☐ Mercury ☐ Mineral ☐ TCLP

Radiation Chemistry Laboratory

Check Desired Analysis: ☐ Other _____

☐ Gross Alpha ☐ Gross Uranium ☐ Ra-226 ☐ Ra-228

Sample Comments: NEED RESULTS BY 11/22 FOR YARD REMOVAL PROJECT

Chain of Custody:

Date ~~10/31/01~~ 11/09/01 Relinquished By [signature] Received By [signature]

Date _____ Relinquished By _____ Received By _____

Date _____ Relinquished By _____ Received By _____

DIV. OF H&E LABORATORIES 2001 NOV -9 PM 1:28

Additional Reports Routed To:

Name _____ Address _____

Name _____ Address _____

Name _____ Address _____

DHEL-01/2001 *Instructions for this form are printed on the reverse side*

Kansas Department of Health and Environment
Division of Health and Environmental Laboratories
Forbes Field, Building 740
Topeka, Kansas 66620-0001

200859PT

Lab Number: _____
Date Received: _____
Analysis Code: _____

Sample Submission Form

Report To: RANDY BROWN/BER Address: 4th FLOOR SIGNATURE BUILDING

Collection Site: CHERRYVALE RESIDENTIAL YARDS 514 N 1ST #3
Legal | Project Code | Name | PWS Acct. No.

Site ID Number: ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ Collection Depth: ___ ___ ___ ___ Feet

Sample Type: Water (Soil) Sediment Sludge Air Oil Solid Liquid Wipe Priority: Regular Moderate (Urgent)

Sample Collector: RANDOLPH L. BROWN KDHE/BER Date: 10/31/01 Time: 1309
Name | Agency (Abbr) | Mo Day Yr | 24 Hour

Program Code:

EA	EB	EC	ED	EE	EF	EG	EH	EK	EL	EM	EN	(EP)	ET	EW	EX	EZ
ES	FK	LM	SC	SE	SG	SN	SP	SW	PC	PD	PE	PG	PI	PL	PP	PT
PU	PV	WE	WI	HD	HF	HL	HS	RP	AR	GS	KC	US	AQ	RT	WC	

Organic Chemistry Laboratory

Check Desired Analysis: ☐ Other _____ VOC Sample Acidified: ☐

☐ Volatiles Method: ☐ 624 ☐ 8260 ☐ 524.2 ☐ Pesticides Method: ☐ 608 ☐ 8080 ☐ 507/8

☐ Acids Method: ☐ 625 ☐ 8270 ☐ Base/Neutrals Method: ☐ 625 ☐ 8270 ☐ 525.2

☐ PCB's Method: ☐ 608 ☐ 8080 ☐ Oil ☐ Herbicides Method: ☐ 615 ☐ 8150 ☐ 515.1

Inorganic Chemistry Laboratory

Bottle Nos.: Chem _____ DO _____ NUT _____ HM _____ CN _____ O&G _____ Phenol _____

Check Desired Analysis: ☐ Other _____

☒ Metals ☐ Mercury ☐ Mineral ☐ TCLP

Radiation Chemistry Laboratory

Check Desired Analysis: ☐ Other _____

☐ Gross Alpha ☐ Gross Uranium ☐ Ra-226 ☐ Ra-228

Sample Comments: NEED RESULTS BY 11/22 FOR YARD REMOVAL PROJECT

Chain of Custody:

Date 11/9/01 Relinquished By [signature] Received By [signature]

Date _____ Relinquished By _____ Received By _____

Date _____ Relinquished By _____ Received By _____

Additional Reports Routed To:

Name _____ Address _____

Name _____ Address _____

Name _____ Address _____

DIV. OF H&E LABORATORIES 2001 NOV -9 PM 1:28

DHEL-01/2001 *Instructions for this form are printed on the reverse side*

Kansas Department of Health and Environment
Division of Health and Environmental Laboratories
Forbes Field, Building 740
Topeka, Kansas 66620-0001

200860PT

Lab Number: _____
Date Received: _____
Analysis Code: _____

Sample Submission Form

Report To: RANDY BROWN/BER Address: 4th FLOOR SIGNATURE BUILDING

Collection Site: CHERRYVALE RESIDENTIAL YARDS 606 W 1ST
Legal | Project Code | Name | PWS Acct. No.

Site ID Number: ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ Collection Depth: ___ ___ ___ Feet

Sample Type: Water (Soil) Sediment Sludge Air Oil Solid Liquid Wipe Priority: Regular Moderate (Urgent)

Sample Collector: RANDOLPH L BROWN KDHE/BER Date: 11-08-01 Time: 1220
Name | Agency (Abbr) | Mo Day Yr | 24 Hour

Program Code:

EA	EB	EC	ED	EE	EF	EG	EH	EK	EL	EM	EN	(EP)	ET	EW	EX	EZ
ES	FK	LM	SC	SE	SG	SN	SP	SW	PC	PD	PE	PG	PI	PL	PP	PT
PU	PV	WE	WI	HD	HF	HL	HS	RP	AR	GS	KC	US	AQ	RT	WC	

Organic Chemistry Laboratory

Check Desired Analysis: ☐ Other _____ VOC Sample Acidified: ☐

☐ Volatiles Method: ☐ 624 ☐ 8260 ☐ 524.2 ☐ Pesticides Method: ☐ 608 ☐ 8080 ☐ 507/8

☐ Acids Method: ☐ 625 ☐ 8270 ☐ Base/Neutrals Method: ☐ 625 ☐ 8270 ☐ 525.2

☐ PCB's Method: ☐ 608 ☐ 8080 ☐ Oil ☐ Herbicides Method: ☐ 615 ☐ 8150 ☐ 515.1

Inorganic Chemistry Laboratory

Bottle Nos.: Chem _____ DO _____ NUT _____ HM _____ CN _____ O&G _____ Phenol _____

Check Desired Analysis: ☐ Other _____

☒ Metals ☐ Mercury ☐ Mineral ☐ TCLP

Radiation Chemistry Laboratory

Check Desired Analysis: ☐ Other _____

☐ Gross Alpha ☐ Gross Uranium ☐ Ra-226 ☐ Ra-228

Sample Comments: NEED RESULTS BY 11/22 FOR YARD REMOVAL PROJECT

Chain of Custody:

Date 11/09/01 Relinquished By [signature] Received By [signature]

Date _____ Relinquished By _____ Received By _____

Date _____ Relinquished By _____ Received By _____

DIV. OF H&E LABORATORIES 2001 NOV -9 PM 1:28

Additional Reports Routed To:

Name _____ Address _____

Name _____ Address _____

Name _____ Address _____

DHEL-01/2001 *Instructions for this form are printed on the reverse side*

Kansas Department of Health and Environment
Division of Health and Environmental Laboratories
Forbes Field, Building 740
Topeka, Kansas 66620-0001

200861PT

Lab Number: _____
Date Received: _____
Analysis Code: _____

Sample Submission Form

Report To: RANDY BROWN/BER **Address:** 4th FLOOR SIGNATURE BUILDING

Collection Site: CHERRYVALE RESIDENTIAL YARDS RINSATE
Legal | Project Code | Name | PWS Acct. No.

Site ID Number: ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ **Collection Depth:** ___ Feet

Sample Type: Water Soil Sediment Sludge Air Oil Solid Liquid Wipe **Priority:** Regular Moderate Urgent

Sample Collector: Randy Brown KDHE/BER **Date:** 10-31-01 **Time:** 1410
Name | Agency (Abbr) | Mo Day Yr | 24 Hour

Program Code:

	EA	EB	EC	ED	EE	EF	EG	EH	EK	EL	EM	EN	EP	ET	EW	EX	EZ
	ES	FK	LM	SC	SE	SG	SN	SP	SW	PC	PD	PE	PG	PI	PL	PP	PT
	PU	PV	WE	WI	HD	HF	HL	HS	RP	AR	GS	KC	US	AQ	RT	WC	

Organic Chemistry Laboratory

Check Desired Analysis: ☐ Other _____ VOC Sample Acidified: ☐

☐ Volatiles Method: ☐ 624 ☐ 8260 ☐ 524.2 ☐ Pesticides Method: ☐ 608 ☐ 8080 ☐ 507/8

☐ Acids Method: ☐ 625 ☐ 8270 ☐ Base/Neutrals Method: ☐ 625 ☐ 8270 ☐ 525.2

☐ PCB's Method: ☐ 608 ☐ 8080 ☐ Oil ☐ Herbicides Method: ☐ 615 ☐ 8150 ☐ 515.1

Inorganic Chemistry Laboratory

Bottle Nos.: Chem ____ DO ____ NUT ____ HM ____ CN ____ O&G ____ Phenol ____

Check Desired Analysis: ☐ Other _____

☒ Metals ☐ Mercury ☐ Mineral ☐ TCLP

Radiation Chemistry Laboratory

Check Desired Analysis: ☐ Other _____

☐ Gross Alpha ☐ Gross Uranium ☐ Ra-226 ☐ Ra-228

Sample Comments: _____

Chain of Custody:

Date 11/09/01 Relinquished By [signature] Received By [signature]

Date _____ Relinquished By _____ Received By _____

Date _____ Relinquished By _____ Received By _____

Additional Reports Routed To:

Name _____ Address _____

Name _____ Address _____

Name _____ Address _____

DIV. OF H&E LABORATORIES
2001 NOV -9 PM 1:28

DHEL-01/2001

Instructions for this form are printed on the reverse side

Kansas Department of Health and Environment
Division of Health and Environmental Laboratories
Forbes Field, Building 740
Topeka, Kansas 66620-0001

Lab Number: _____
Date Received: _____
Analysis Code: _____

Sample Submission Form

Report To: RANDY BROWN/BER Address: 4th FLOOR SIGNATURE BUILDING

Collection Site: CHERRYVALE RESIDENTIAL YARDS
Legal | Project Code | Name | PWS Acct. No.

Site ID Number: ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ Collection Depth: __ __ __ __ Feet

Sample Type: Water (Soil) Sediment Sludge Air Oil Solid Liquid Wipe Priority: Regular Moderate Urgent

Sample Collector: RANDOLAL BROWN KDHE/BER Date: 11 – 08 – 01 Time: __ __ __ __
Name | Agency (Abbr) | Mo Day Yr | 24 Hour

Program Code:

EA	EB	EC	ED	EE	EF	EG	EH	EK	EL	EM	EN	(EP)	ET	EW	EX	EZ
ES	FK	LM	SC	SE	SG	SN	SP	SW	PC	PD	PE	PG	PI	PL	PP	PT
PU	PV	WE	WI	HD	HF	HL	HS	RP	AR	GS	KC	US	AQ	RT	WC	

Organic Chemistry Laboratory

Check Desired Analysis: ☐ Other _____ VOC Sample Acidified: ☐

☐ Volatiles Method: ☐ 624 ☐ 8260 ☐ 524.2 ☐ Pesticides Method: ☐ 608 ☐ 8080 ☐ 507/8

☐ Acids Method: ☐ 625 ☐ 8270 ☐ Base/Neutrals Method: ☐ 625 ☐ 8270 ☐ 525.2

☐ PCB's Method: ☐ 608 ☐ 8080 ☐ Oil ☐ Herbicides Method: ☐ 615 ☐ 8150 ☐ 515.1

Inorganic Chemistry Laboratory

Bottle Nos.: Chem _____ DO _____ NUT _____ HM _____ CN _____ O&G _____ Phenol _____

Check Desired Analysis: ☐ Other _____

☒ Metals ☐ Mercury ☐ Mineral ☐ TCLP

Radiation Chemistry Laboratory

Check Desired Analysis: ☐ Other _____

☐ Gross Alpha ☐ Gross Uranium ☐ Ra-226 ☐ Ra-228

Sample Comments: NEED RESULTS BY 11/22 FOR YARD REMOVAL PROJECT

Chain of Custody:

Date _____ Relinquished By _____ Received By _____

Date _____ Relinquished By _____ Received By _____

Date _____ Relinquished By _____ Received By _____

Additional Reports Routed To:

Name _____ Address _____

Name _____ Address _____

Name _____ Address _____

DHEL-01/2001

Instructions for this form are printed on the reverse side

Kansas Department of Health and Environment
Division of Health and Environmental Laboratories
Forbes Field, Building 740
Topeka, Kansas 66620-0001

Lab Number: _____
Date Received: _____
Analysis Code: _____

Sample Submission Form

Report To: RANDY BROWN/BER Address: 4th FLOOR SIGNATURE BUILDING

Collection Site: CHERRYVALE RESIDENTIAL YARDS
Legal | Project Code | Name | PWS Acct. No.

Site ID Number: ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ Collection Depth: ___ ___ ___ ___ Feet

Sample Type: Water (Soil) Sediment Sludge Air Oil Solid Liquid Wipe Priority: Regular Moderate Urgent

Sample Collector: RANDOLPH L. BROWN KDHE/BER Date: 11 – 08 – 01 Time: _ _ _ _
Name | Agency (Abbr) | Mo Day Yr | 24 Hour

Program Code:

EA	EB	EC	ED	EE	EF	EG	EH	EK	EL	EM	EN	(EP)	ET	EW	EX	EZ
ES	FK	LM	SC	SE	SG	SN	SP	SW	PC	PD	PE	PG	PI	PL	PP	PT
PU	PV	WE	WI	HD	HF	HL	HS	RP	AR	GS	KC	US	AQ	RT	WC	

Organic Chemistry Laboratory

Check Desired Analysis: ☐ Other _____ VOC Sample Acidified: ☐

☐ Volatiles Method: ☐ 624 ☐ 8260 ☐ 524.2 ☐ Pesticides Method: ☐ 608 ☐ 8080 ☐ 507/8

☐ Acids Method: ☐ 625 ☐ 8270 ☐ Base/Neutrals Method: ☐ 625 ☐ 8270 ☐ 525.2

☐ PCB's Method: ☐ 608 ☐ 8080 ☐ Oil ☐ Herbicides Method: ☐ 615 ☐ 8150 ☐ 515.1

Inorganic Chemistry Laboratory

Bottle Nos.: Chem _____ DO _____ NUT _____ HM _____ CN _____ O&G _____ Phenol _____

Check Desired Analysis: ☐ Other _____

☒ Metals ☐ Mercury ☐ Mineral ☐ TCLP

Radiation Chemistry Laboratory

Check Desired Analysis: ☐ Other _____

☐ Gross Alpha ☐ Gross Uranium ☐ Ra-226 ☐ Ra-228

Sample Comments: NEED RESULTS BY 11/22 FOR YARD REMOVAL PROJECT

Chain of Custody:

Date _____ Relinquished By _____ Received By _____

Date _____ Relinquished By _____ Received By _____

Date _____ Relinquished By _____ Received By _____

Additional Reports Routed To:

Name _____ Address _____

Name _____ Address _____

Name _____ Address _____

Instructions for this form are printed on the reverse side

Kansas Department of Health and Environment
Division of Health and Environmental Laboratories
Forbes Field, Building 740
Topeka, Kansas 66620-0001

Lab Number: _____
Date Received: _____
Analysis Code: _____

Sample Submission Form

Report To: RANDY BROWN/BER Address: 4th FLOOR SIGNATURE BUILDING

Collection Site: CHERRYVALE RESIDENTIAL YARDS
Legal | Project Code | Name | PWS Acct. No.

Site ID Number: ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ Collection Depth: __ __ __ __ Feet

Sample Type: Water (Soil) Sediment Sludge Air Oil Solid Liquid Wipe Priority: Regular Moderate Urgent

Sample Collector: RANDOLPH L. BROWN KDHE/BER Date: 11 - 08 - 01 Time: __ __ __ __
Name | Agency (Abbr) | Mo Day Yr | 24 Hour

Program Code:

EA	EB	EC	ED	EE	EF	EG	EH	EK	EL	EM	EN	(EP)	ET	EW	EX	EZ
ES	FK	LM	SC	SE	SG	SN	SP	SW	PC	PD	PE	PG	PI	PL	PP	PT
PU	PV	WE	WI	HD	HF	HL	HS	RP	AR	GS	KC	US	AQ	RT	WC	

Organic Chemistry Laboratory

Check Desired Analysis: ☐ Other _____ VOC Sample Acidified: ☐

☐ Volatiles Method: ☐ 624 ☐ 8260 ☐ 524.2 ☐ Pesticides Method: ☐ 608 ☐ 8080 ☐ 507/8

☐ Acids Method: ☐ 625 ☐ 8270 ☐ Base/Neutrals Method: ☐ 625 ☐ 8270 ☐ 525.2

☐ PCB's Method: ☐ 608 ☐ 8080 ☐ Oil ☐ Herbicides Method: ☐ 615 ☐ 8150 ☐ 515.1

Inorganic Chemistry Laboratory

Bottle Nos.: Chem _____ DO _____ NUT _____ HM _____ CN _____ O&G _____ Phenol _____

Check Desired Analysis: ☐ Other _____

☒ Metals ☐ Mercury ☐ Mineral ☐ TCLP

Radiation Chemistry Laboratory

Check Desired Analysis: ☐ Other _____

☐ Gross Alpha ☐ Gross Uranium ☐ Ra-226 ☐ Ra-228

Sample Comments: NEED RESULTS BY 11/22 FOR YARD REMOVAL PROJECT

Chain of Custody:

Date _____ Relinquished By _____ Received By _____

Date _____ Relinquished By _____ Received By _____

Date _____ Relinquished By _____ Received By _____

Additional Reports Routed To:

Name _____ Address _____

Name _____ Address _____

Name _____ Address _____

Instructions for this form are printed on the reverse side

Kansas Department of Health and Environment
Division of Health and Environmental Laboratories
Forbes Field, Building 740
Topeka, Kansas 66620-0001

Lab Number: _____
Date Received: _____
Analysis Code: _____

Sample Submission Form

Report To: RANDY BROWN/BER Address: 4th FLOOR SIGNATURE BUILDING

Collection Site: CHERRYVALE RESIDENTIAL YARDS
Legal | Project Code | Name | PWS Acct. No.

Site ID Number: ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ Collection Depth: __ __ __ __ Feet

Sample Type: Water (Soil) Sediment Sludge Air Oil Solid Liquid Wipe Priority: Regular Moderate Urgent

Sample Collector: RANDOLPH BROWN KDHE/BER Date: 11 - 08 - 01 Time: __ __ __ __
Name | Agency (Abbr) | Mo Day Yr | 24 Hour

Program Code:

EA	EB	EC	ED	EE	EF	EG	EH	EK	EL	EM	EN	(EP)	ET	EW	EX	EZ
ES	FK	LM	SC	SE	SG	SN	SP	SW	PC	PD	PE	PG	PI	PL	PP	PT
PU	PV	WE	WI	HD	HF	HL	HS	RP	AR	GS	KC	US	AQ	RT	WC	

Organic Chemistry Laboratory

Check Desired Analysis: ☐ Other _____ VOC Sample Acidified: ☐

☐ Volatiles Method: ☐ 624 ☐ 8260 ☐ 524.2 ☐ Pesticides Method: ☐ 608 ☐ 8080 ☐ 507/8

☐ Acids Method: ☐ 625 ☐ 8270 ☐ Base/Neutrals Method: ☐ 625 ☐ 8270 ☐ 525.2

☐ PCB's Method: ☐ 608 ☐ 8080 ☐ Oil ☐ Herbicides Method: ☐ 615 ☐ 8150 ☐ 515.1

Inorganic Chemistry Laboratory

Bottle Nos.: Chem _____ DO _____ NUT _____ HM _____ CN _____ O&G _____ Phenol _____

Check Desired Analysis: ☐ Other _____

☒ Metals ☐ Mercury ☐ Mineral ☐ TCLP

Radiation Chemistry Laboratory

Check Desired Analysis: ☐ Other _____

☐ Gross Alpha ☐ Gross Uranium ☐ Ra-226 ☐ Ra-228

Sample Comments: NEED RESULTS BY 11/22 FOR YARD REMOVAL PROJECT

Chain of Custody:

Date _____ Relinquished By _____ Received By _____

Date _____ Relinquished By _____ Received By _____

Date _____ Relinquished By _____ Received By _____

Additional Reports Routed To:

Name _____ Address _____

Name _____ Address _____

Name _____ Address _____

Instructions for this form are printed on the reverse side

Kansas Department of Health and Environment
Division of Health and Environmental Laboratories
Forbes Field, Building 740
Topeka, Kansas 66620-0001

Lab Number: _____
Date Received: _____
Analysis Code: _____

Sample Submission Form

Report To: RANDY BROWN/BER Address: 4th FLOOR SIGNATURE BUILDING

Collection Site: CHERRYVALE RESIDENTIAL YARDS
Legal | Project Code | Name | PWS Acct. No.

Site ID Number: ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ Collection Depth: ___ ___ ___ ___ Feet

Sample Type: Water (Soil) Sediment Sludge Air Oil Solid Liquid Wipe Priority: Regular Moderate Urgent

Sample Collector: RANDOLPH L. BROWN KDHE/BER Date: 11 - 08 - 01 Time: ___ ___ ___ ___
Name | Agency (Abbr) | Mo | Day | Yr | 24 Hour

Program Code:

EA	EB	EC	ED	EE	EF	EG	EH	EK	EL	EM	EN	(EP)	ET	EW	EX	EZ
ES	FK	LM	SC	SE	SG	SN	SP	SW	PC	PD	PE	PG	PI	PL	PP	PT
PU	PV	WE	WI	HD	HF	HL	HS	RP	AR	GS	KC	US	AQ	RT	WC	

Organic Chemistry Laboratory

Check Desired Analysis: ☐ Other _____ VOC Sample Acidified: ☐

☐ Volatiles Method: ☐ 624 ☐ 8260 ☐ 524.2 ☐ Pesticides Method: ☐ 608 ☐ 8080 ☐ 507/8

☐ Acids Method: ☐ 625 ☐ 8270 ☐ Base/Neutrals Method: ☐ 625 ☐ 8270 ☐ 525.2

☐ PCB's Method: ☐ 608 ☐ 8080 ☐ Oil ☐ Herbicides Method: ☐ 615 ☐ 8150 ☐ 515.1

Inorganic Chemistry Laboratory

Bottle Nos.: Chem _____ DO _____ NUT _____ HM _____ CN _____ O&G _____ Phenol _____

Check Desired Analysis: ☐ Other _____

☒ Metals ☐ Mercury ☐ Mineral ☐ TCLP

Radiation Chemistry Laboratory

Check Desired Analysis: ☐ Other _____

☐ Gross Alpha ☐ Gross Uranium ☐ Ra-226 ☐ Ra-228

Sample Comments: NEED RESULTS BY 11/22 FOR YARD REMOVAL PROJECT

Chain of Custody:

Date _____ Relinquished By _____ Received By _____

Date _____ Relinquished By _____ Received By _____

Date _____ Relinquished By _____ Received By _____

Additional Reports Routed To:

Name _____ Address _____

Name _____ Address _____

Name _____ Address _____

Instructions for this form are printed on the reverse side

Kansas Department of Health and Environment
Division of Health and Environmental Laboratories
Forbes Field, Building 740
Topeka, Kansas 66620-0001

Lab Number: _____
Date Received: _____
Analysis Code: _____

Sample Submission Form

Report To: RANDY BROWN/BER Address: 4th FLOOR SIGNATURE BUILDING

Collection Site: CHERRYVALE RESIDENTIAL YARDS
Legal | Project Code | Name | PWS Acct. No.

Site ID Number: ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ Collection Depth: ___ ___ ___ ___ Feet

Sample Type: Water (Soil) Sediment Sludge Air Oil Solid Liquid Wipe Priority: Regular Moderate Urgent

Sample Collector: RANDOLPH L BROWN KDHE/BER Date: 11-08-01 Time: ___ ___ ___ ___
Name | Agency (Abbr) | Mo Day Yr | 24 Hour

Program Code:

EA	EB	EC	ED	EE	EF	EG	EH	EK	EL	EM	EN	(EP)	ET	EW	EX	EZ
ES	FK	LM	SC	SE	SG	SN	SP	SW	PC	PD	PE	PG	PI	PL	PP	PT
PU	PV	WE	WI	HD	HF	HL	HS	RP	AR	GS	KC	US	AQ	RT	WC	

Organic Chemistry Laboratory

Check Desired Analysis: ☐ Other _____ VOC Sample Acidified: ☐

☐ Volatiles Method: ☐ 624 ☐ 8260 ☐ 524.2 ☐ Pesticides Method: ☐ 608 ☐ 8080 ☐ 507/8

☐ Acids Method: ☐ 625 ☐ 8270 ☐ Base/Neutrals Method: ☐ 625 ☐ 8270 ☐ 525.2

☐ PCB's Method: ☐ 608 ☐ 8080 ☐ Oil ☐ Herbicides Method: ☐ 615 ☐ 8150 ☐ 515.1

Inorganic Chemistry Laboratory

Bottle Nos.: Chem _____ DO _____ NUT _____ HM _____ CN _____ O&G _____ Phenol _____

Check Desired Analysis: ☐ Other _____

☒ Metals ☐ Mercury ☐ Mineral ☐ TCLP

Radiation Chemistry Laboratory

Check Desired Analysis: ☐ Other _____

☐ Gross Alpha ☐ Gross Uranium ☐ Ra-226 ☐ Ra-228

Sample Comments: NEED RESULTS BY 11/22 FOR YARD REMOVAL PROJECT

Chain of Custody:

Date _____ Relinquished By _____ Received By _____

Date _____ Relinquished By _____ Received By _____

Date _____ Relinquished By _____ Received By _____

Additional Reports Routed To:

Name _____ Address _____

Name _____ Address _____

Name _____ Address _____

Instructions for this form are printed on the reverse side

Kansas Department of Health and Environment
Division of Health and Environmental Laboratories
Forbes Field, Building 740
Topeka, Kansas 66620-0001

Lab Number: _____
Date Received: _____
Analysis Code: _____

Sample Submission Form

Report To: RANDY BROWN/BER Address: 4th FLOOR SIGNATURE BUILDING

Collection Site: _____
Legal | Project Code | Name | PWS Acct. No.

Site ID Number: ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ Collection Depth: ___ ___ ___ ___ Feet

Sample Type: Water Soil Sediment Sludge Air Oil Solid Liquid Wipe Priority: Regular Moderate Urgent

Sample Collector: _____ Date: ___ – ___ – ___ Time: __ __ __ __
Name | Agency (Abbr) | Mo Day Yr | 24 Hour

Program Code:

EA	EB	EC	ED	EE	EF	EG	EH	EK	EL	EM	EN	EP	ET	EW	EX	EZ
ES	FK	LM	SC	SE	SG	SN	SP	SW	PC	PD	PE	PG	PI	PL	PP	PT
PU	PV	WE	WI	HD	HF	HL	HS	RP	AR	GS	KC	US	AQ	RT	WC	

Organic Chemistry Laboratory

Check Desired Analysis: ☐ Other _____ VOC Sample Acidified: ☐

☐ Volatiles Method: ☐ 624 ☐ 8260 ☐ 524.2 ☐ Pesticides Method: ☐ 608 ☐ 8080 ☐ 507/8

☐ Acids Method: ☐ 625 ☐ 8270 ☐ Base/Neutrals Method: ☐ 625 ☐ 8270 ☐ 525.2

☐ PCB's Method: ☐ 608 ☐ 8080 ☐ Oil ☐ Herbicides Method: ☐ 615 ☐ 8150 ☐ 515.1

Inorganic Chemistry Laboratory

Bottle Nos.: Chem _____ DO _____ NUT _____ HM _____ CN _____ O&G _____ Phenol _____

Check Desired Analysis: ☐ Other _____

☐ Metals ☐ Mercury ☐ Mineral ☐ TCLP

Radiation Chemistry Laboratory

Check Desired Analysis: ☐ Other _____

☐ Gross Alpha ☐ Gross Uranium ☐ Ra-226 ☐ Ra-228

Sample Comments: _____

Chain of Custody:

Date _____ Relinquished By _____ Received By _____

Date _____ Relinquished By _____ Received By _____

Date _____ Relinquished By _____ Received By _____

Additional Reports Routed To:

Name _____ Address _____

Name _____ Address _____

Name _____ Address _____

Instructions for this form are printed on the reverse side

Kansas Department of Health and Environment
Division of Health and Environmental Laboratories
Forbes Field, Building 740
Topeka, Kansas 66620-0001

Lab Number: _____
Date Received: _____
Analysis Code: _____

Sample Submission Form

Report To: RANDY BROWN/BER Address: 4th FLOOR SIGNATURE BUILDING

Collection Site: CHERRYVALE RESIDENTIAL YARDS
Legal | Project Code | Name | PWS Acct. No.

Site ID Number: ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ Collection Depth: ___ ___ ___ Feet

Sample Type: Water (Soil) Sediment Sludge Air Oil Solid Liquid Wipe Priority: Regular Moderate Urgent

Sample Collector: RANDOLPH L. BROWN KDHE/BER Date: 11 - 08 - 01 Time: ___ ___ ___ ___
Name | Agency (Abbr) | Mo Day Yr | 24 Hour

Program Code:

EA	EB	EC	ED	EE	EF	EG	EH	EK	EL	EM	EN	(EP)	ET	EW	EX	EZ
ES	FK	LM	SC	SE	SG	SN	SP	SW	PC	PD	PE	PG	PI	PL	PP	PT
PU	PV	WE	WI	HD	HF	HL	HS	RP	AR	GS	KC	US	AQ	RT	WC	

Organic Chemistry Laboratory

Check Desired Analysis: ☐ Other _____ VOC Sample Acidified: ☐

☐ Volatiles Method: ☐ 624 ☐ 8260 ☐ 524.2 ☐ Pesticides Method: ☐ 608 ☐ 8080 ☐ 507/8

☐ Acids Method: ☐ 625 ☐ 8270 ☐ Base/Neutrals Method: ☐ 625 ☐ 8270 ☐ 525.2

☐ PCB's Method: ☐ 608 ☐ 8080 ☐ Oil ☐ Herbicides Method: ☐ 615 ☐ 8150 ☐ 515.1

Inorganic Chemistry Laboratory

Bottle Nos.: Chem _____ DO _____ NUT _____ HM _____ CN _____ O&G _____ Phenol _____

Check Desired Analysis: ☐ Other _____

☒ Metals ☐ Mercury ☐ Mineral ☐ TCLP

Radiation Chemistry Laboratory

Check Desired Analysis: ☐ Other _____

☐ Gross Alpha ☐ Gross Uranium ☐ Ra-226 ☐ Ra-228

Sample Comments: NEED RESULTS BY 11/22 FOR YARD REMOVAL PROJECT

Chain of Custody:

Date _____ Relinquished By _____ Received By _____

Date _____ Relinquished By _____ Received By _____

Date _____ Relinquished By _____ Received By _____

Additional Reports Routed To:

Name _____ Address _____

Name _____ Address _____

Name _____ Address _____

Instructions for this form are printed on the reverse side

Kansas Department of Health and Environment
Division of Health and Environmental Laboratories
Forbes Field, Building 740
Topeka, Kansas 66620-0001

Lab Number: _____
Date Received: _____
Analysis Code: _____

Sample Submission Form

Report To: RANDY BROWN/BER Address: 4th FLOOR SIGNATURE BUILDING

Collection Site: CHERRYVALE RESIDENTIAL YARDS
Legal | Project Code | Name | PWS Acct. No.

Site ID Number: ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ Collection Depth: ___ ___ ___ ___ Feet

Sample Type: Water (Soil) Sediment Sludge Air Oil Solid Liquid Wipe Priority: Regular Moderate Urgent

Sample Collector: RANDOLPH L. BROWN KDHE/BER Date: 11 - 08 - 01 Time: __ __ __ __
Name | Agency (Abbr) | Mo Day Yr | 24 Hour

Program Code:

EA	EB	EC	ED	EE	EF	EG	EH	EK	EL	EM	EN	(EP)	ET	EW	EX	EZ
ES	FK	LM	SC	SE	SG	SN	SP	SW	PC	PD	PE	PG	PI	PL	PP	PT
PU	PV	WE	WI	HD	HF	HL	HS	RP	AR	GS	KC	US	AQ	RT	WC	

Organic Chemistry Laboratory

Check Desired Analysis: ☐ Other _____ VOC Sample Acidified: ☐

☐ Volatiles Method: ☐ 624 ☐ 8260 ☐ 524.2 ☐ Pesticides Method: ☐ 608 ☐ 8080 ☐ 507/8

☐ Acids Method: ☐ 625 ☐ 8270 ☐ Base/Neutrals Method: ☐ 625 ☐ 8270 ☐ 525.2

☐ PCB's Method: ☐ 608 ☐ 8080 ☐ Oil ☐ Herbicides Method: ☐ 615 ☐ 8150 ☐ 515.1

Inorganic Chemistry Laboratory

Bottle Nos.: Chem _____ DO _____ NUT _____ HM _____ CN _____ O&G _____ Phenol _____

Check Desired Analysis: ☐ Other _____

☒ Metals ☐ Mercury ☐ Mineral ☐ TCLP

Radiation Chemistry Laboratory

Check Desired Analysis: ☐ Other _____

☐ Gross Alpha ☐ Gross Uranium ☐ Ra-226 ☐ Ra-228

Sample Comments: NEED RESULTS BY 11/22 FOR YARD REMOVAL PROJECT

Chain of Custody:

Date _____ Relinquished By _____ Received By _____

Date _____ Relinquished By _____ Received By _____

Date _____ Relinquished By _____ Received By _____

Additional Reports Routed To:

Name _____ Address _____

Name _____ Address _____

Name _____ Address _____

Instructions for this form are printed on the reverse side

Kansas Department of Health and Environment
Division of Health and Environmental Laboratories
Forbes Field, Building 740
Topeka, Kansas 66620-0001

Lab Number: _____
Date Received: _____
Analysis Code: _____

Sample Submission Form

Report To: RANDY BROWN/BER Address: 4th FLOOR SIGNATURE BUILDING

Collection Site: CHERRYVALE RESIDENTIAL YARDS
Legal | Project Code | Name | PWS Acct. No.

Site ID Number: ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ Collection Depth: ___ ___ ___ ___ Feet

Sample Type: Water (Soil) Sediment Sludge Air Oil Solid Liquid Wipe Priority: Regular Moderate Urgent

Sample Collector: RANDOLPH L. BROWN KDHE/BER Date: 11 - 08 - 01 Time: ___ ___ ___ ___
Name | Agency (Abbr) | Mo Day Yr | 24 Hour

Program Code:

EA	EB	EC	ED	EE	EF	EG	EH	EK	EL	EM	EN	(EP)	ET	EW	EX	EZ
ES	FK	LM	SC	SE	SG	SN	SP	SW	PC	PD	PE	PG	PI	PL	PP	PT
PU	PV	WE	WI	HD	HF	HL	HS	RP	AR	GS	KC	US	AQ	RT	WC	

Organic Chemistry Laboratory

Check Desired Analysis: ☐ Other _____ VOC Sample Acidified: ☐

☐ Volatiles Method: ☐ 624 ☐ 8260 ☐ 524.2 ☐ Pesticides Method: ☐ 608 ☐ 8080 ☐ 507/8

☐ Acids Method: ☐ 625 ☐ 8270 ☐ Base/Neutrals Method: ☐ 625 ☐ 8270 ☐ 525.2

☐ PCB's Method: ☐ 608 ☐ 8080 ☐ Oil ☐ Herbicides Method: ☐ 615 ☐ 8150 ☐ 515.1

Inorganic Chemistry Laboratory

Bottle Nos.: Chem _____ DO _____ NUT _____ HM _____ CN _____ O&G _____ Phenol _____

Check Desired Analysis: ☐ Other _____

☒ Metals ☐ Mercury ☐ Mineral ☐ TCLP

Radiation Chemistry Laboratory

Check Desired Analysis: ☐ Other _____

☐ Gross Alpha ☐ Gross Uranium ☐ Ra-226 ☐ Ra-228

Sample Comments: NEED RESULTS BY 11/22 FOR YARD REMOVAL PROJECT

Chain of Custody:

Date _____ Relinquished By _____ Received By _____

Date _____ Relinquished By _____ Received By _____

Date _____ Relinquished By _____ Received By _____

Additional Reports Routed To:

Name _____ Address _____

Name _____ Address _____

Name _____ Address _____

Instructions for this form are printed on the reverse side

Kansas Department of Health and Environment
Division of Health and Environmental Laboratories
Forbes Field, Building 740
Topeka, Kansas 66620-0001

Lab Number: _____
Date Received: _____
Analysis Code: _____

Sample Submission Form

Report To: RANDY BROWN/BER Address: 4th FLOOR SIGNATURE BUILDING

Collection Site: CHERRYVALE RESIDENTIAL YARDS
Legal | Project Code | Name | PWS Acct. No.

Site ID Number: ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ Collection Depth: ___ ___ ___ Feet

Sample Type: Water (Soil) Sediment Sludge Air Oil Solid Liquid Wipe Priority: Regular Moderate Urgent

Sample Collector: RANDOLPH L. BROWN KDHE/BER Date: 11 - 08 - 01 Time: ___ ___ ___ ___
Name | Agency (Abbr) | Mo Day Yr | 24 Hour

Program Code:

EA	EB	EC	ED	EE	EF	EG	EH	EK	EL	EM	EN	(EP)	ET	EW	EX	EZ
ES	FK	LM	SC	SE	SG	SN	SP	SW	PC	PD	PE	PG	PI	PL	PP	PT
PU	PV	WE	WI	HD	HF	HL	HS	RP	AR	GS	KC	US	AQ	RT	WC	

Organic Chemistry Laboratory

Check Desired Analysis: ☐ Other _____ VOC Sample Acidified: ☐

☐ Volatiles Method: ☐ 624 ☐ 8260 ☐ 524.2 ☐ Pesticides Method: ☐ 608 ☐ 8080 ☐ 507/8

☐ Acids Method: ☐ 625 ☐ 8270 ☐ Base/Neutrals Method: ☐ 625 ☐ 8270 ☐ 525.2

☐ PCB's Method: ☐ 608 ☐ 8080 ☐ Oil ☐ Herbicides Method: ☐ 615 ☐ 8150 ☐ 515.1

Inorganic Chemistry Laboratory

Bottle Nos.: Chem _____ DO _____ NUT _____ HM _____ CN _____ O&G _____ Phenol _____

Check Desired Analysis: ☐ Other _____

☒ Metals ☐ Mercury ☐ Mineral ☐ TCLP

Radiation Chemistry Laboratory

Check Desired Analysis: ☐ Other _____

☐ Gross Alpha ☐ Gross Uranium ☐ Ra-226 ☐ Ra-228

Sample Comments: NEED RESULTS BY 11/22 FOR YARD REMOVAL PROJECT

Chain of Custody:

Date _____ Relinquished By _____ Received By _____

Date _____ Relinquished By _____ Received By _____

Date _____ Relinquished By _____ Received By _____

Additional Reports Routed To:

Name _____ Address _____

Name _____ Address _____

Name _____ Address _____

Instructions for this form are printed on the reverse side

Kansas Department of Health and Environment
Division of Health and Environmental Laboratories
Forbes Field, Building 740
Topeka, Kansas 66620-0001

Lab Number: _____
Date Received: _____
Analysis Code: _____

Sample Submission Form

Report To: RANDY BROWN/BER Address: 4th FLOOR SIGNATURE BUILDING

Collection Site: CHERRYVALE RESIDENTIAL YARDS
Legal | Project Code | Name | PWS Acct. No.

Site ID Number: ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ Collection Depth: ___ ___ ___ ___ Feet

Sample Type: Water (Soil) Sediment Sludge Air Oil Solid Liquid Wipe Priority: Regular Moderate Urgent

Sample Collector: RANDOLPH L. BROWN KDHE/BER Date: 11 - 08 - 01 Time: ___ ___ ___ ___
Name | Agency (Abbr) | Mo Day Yr | 24 Hour

Program Code:

EA	EB	EC	ED	EE	EF	EG	EH	EK	EL	EM	EN	(EP)	ET	EW	EX	EZ
ES	FK	LM	SC	SE	SG	SN	SP	SW	PC	PD	PE	PG	PI	PL	PP	PT
PU	PV	WE	WI	HD	HF	HL	HS	RP	AR	GS	KC	US	AQ	RT	WC	

Organic Chemistry Laboratory

Check Desired Analysis: ☐ Other _____ VOC Sample Acidified: ☐

☐ Volatiles Method: ☐ 624 ☐ 8260 ☐ 524.2 ☐ Pesticides Method: ☐ 608 ☐ 8080 ☐ 507/8

☐ Acids Method: ☐ 625 ☐ 8270 ☐ Base/Neutrals Method: ☐ 625 ☐ 8270 ☐ 525.2

☐ PCB's Method: ☐ 608 ☐ 8080 ☐ Oil ☐ Herbicides Method: ☐ 615 ☐ 8150 ☐ 515.1

Inorganic Chemistry Laboratory

Bottle Nos.: Chem _____ DO _____ NUT _____ HM _____ CN _____ O&G _____ Phenol _____

Check Desired Analysis: ☐ Other _____

☒ Metals ☐ Mercury ☐ Mineral ☐ TCLP

Radiation Chemistry Laboratory

Check Desired Analysis: ☐ Other _____

☐ Gross Alpha ☐ Gross Uranium ☐ Ra-226 ☐ Ra-228

Sample Comments: NEED RESULTS BY 11/22 FOR YARD REMOVAL PROJECT

Chain of Custody:

Date _____ Relinquished By _____ Received By _____

Date _____ Relinquished By _____ Received By _____

Date _____ Relinquished By _____ Received By _____

Additional Reports Routed To:

Name _____ Address _____

Name _____ Address _____

Name _____ Address _____

Instructions for this form are printed on the reverse side

Kansas Department of Health and Environment
Division of Health and Environmental Laboratories
Forbes Field, Building 740
Topeka, Kansas 66620-0001

Lab Number: _____
Date Received: _____
Analysis Code: _____

Sample Submission Form

Report To: RANDY BROWN/BER Address: 4th FLOOR SIGNATURE BUILDING

Collection Site: CHERRYVALE RESIDENTIAL YARDS
Legal Project Code Name PWS Acct. No.

Site ID Number: ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ Collection Depth: ___ ___ ___ ___ Feet

Sample Type: Water (Soil) Sediment Sludge Air Oil Solid Liquid Wipe Priority: Regular Moderate Urgent

Sample Collector: RANDOLPH L BROWN KDHE/BER Date: 11 - 08 - 01 Time: ___ ___ ___ ___
Name Agency (Abbr) Mo Day Yr 24 Hour

Program Code:

EA	EB	EC	ED	EE	EF	EG	EH	EK	EL	EM	EN	(EP)	ET	EW	EX	EZ
ES	FK	LM	SC	SE	SG	SN	SP	SW	PC	PD	PE	PG	PI	PL	PP	PT
PU	PV	WE	WI	HD	HF	HL	HS	RP	AR	GS	KC	US	AQ	RT	WC	

Organic Chemistry Laboratory

Check Desired Analysis: ☐ Other _____ VOC Sample Acidified: ☐

☐ Volatiles Method: ☐ 624 ☐ 8260 ☐ 524.2 ☐ Pesticides Method: ☐ 608 ☐ 8080 ☐ 507/8

☐ Acids Method: ☐ 625 ☐ 8270 ☐ Base/Neutrals Method: ☐ 625 ☐ 8270 ☐ 525.2

☐ PCB's Method: ☐ 608 ☐ 8080 ☐ Oil ☐ Herbicides Method: ☐ 615 ☐ 8150 ☐ 515.1

Inorganic Chemistry Laboratory

Bottle Nos.: Chem _____ DO _____ NUT _____ HM _____ CN _____ O&G _____ Phenol _____

Check Desired Analysis: ☐ Other _____

☒ Metals ☐ Mercury ☐ Mineral ☐ TCLP

Radiation Chemistry Laboratory

Check Desired Analysis: ☐ Other _____

☐ Gross Alpha ☐ Gross Uranium ☐ Ra-226 ☐ Ra-228

Sample Comments: NEED RESULTS BY 11/22 FOR YARD REMOVAL PROJECT

Chain of Custody:

Date _____ Relinquished By _____ Received By _____

Date _____ Relinquished By _____ Received By _____

Date _____ Relinquished By _____ Received By _____

Additional Reports Routed To:

Name _____ Address _____

Name _____ Address _____

Name _____ Address _____

Instructions for this form are printed on the reverse side

Kansas Department of Health and Environment
Division of Health and Environmental Laboratories
Forbes Field, Building 740
Topeka, Kansas 66620-0001

Lab Number: _____
Date Received: _____
Analysis Code: _____

Sample Submission Form

Report To: RANDY BROWN/BER Address: 4th Floor Signature Building

Collection Site: CHERRYVALE RESIDENTIAL YARDS
Legal | Project Code | Name | PWS Acct. No.

Site ID Number: ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ Collection Depth: ___ ___ ___ ___ Feet

Sample Type: Water (Soil) Sediment Sludge Air Oil Solid Liquid Wipe Priority: Regular Moderate Urgent

Sample Collector: RANDOLPH L. BROWN KDHE/BER Date: 11-08-01 Time: ___ ___ ___ ___
Name | Agency (Abbr) | Mo Day Yr | 24 Hour

Program Code:

EA	EB	EC	ED	EE	EF	EG	EH	EK	EL	EM	EN	(EP)	ET	EW	EX	EZ
ES	FK	LM	SC	SE	SG	SN	SP	SW	PC	PD	PE	PG	PI	PL	PP	PT
PU	PV	WE	WI	HD	HF	HL	HS	RP	AR	GS	KC	US	AQ	RT	WC	

Organic Chemistry Laboratory

Check Desired Analysis: ☐ Other _____ VOC Sample Acidified: ☐

☐ Volatiles Method: ☐ 624 ☐ 8260 ☐ 524.2 ☐ Pesticides Method: ☐ 608 ☐ 8080 ☐ 507/8

☐ Acids Method: ☐ 625 ☐ 8270 ☐ Base/Neutrals Method: ☐ 625 ☐ 8270 ☐ 525.2

☐ PCB's Method: ☐ 608 ☐ 8080 ☐ Oil ☐ Herbicides Method: ☐ 615 ☐ 8150 ☐ 515.1

Inorganic Chemistry Laboratory

Bottle Nos.: Chem _____ DO _____ NUT _____ HM _____ CN _____ O&G _____ Phenol _____

Check Desired Analysis: ☐ Other _____

☒ Metals ☐ Mercury ☐ Mineral ☐ TCLP

Radiation Chemistry Laboratory

Check Desired Analysis: ☐ Other _____

☐ Gross Alpha ☐ Gross Uranium ☐ Ra-226 ☐ Ra-228

Sample Comments: NEED RESULTS BY 11/22 FOR YARD REMOVAL PROJECT

Chain of Custody:

Date _____ Relinquished By _____ Received By _____

Date _____ Relinquished By _____ Received By _____

Date _____ Relinquished By _____ Received By _____

Additional Reports Routed To:

Name _____ Address _____

Name _____ Address _____

Name _____ Address _____

Instructions for this form are printed on the reverse side

Kansas Department of Health and Environment
Division of Health and Environmental Laboratories
Forbes Field, Building 740
Topeka, Kansas 66620-0001

Lab Number: _____
Date Received: _____
Analysis Code: _____

Sample Submission Form

Report To: RANDY BROWN/BER Address: 4th FLOOR SIGNATURE BUILDING

Collection Site: CHERRYVALE RESIDENTIAL YARDS
Legal Project Code Name PWS Acct. No.

Site ID Number: ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ Collection Depth: ___ ___ ___ ___ Feet

Sample Type: Water (Soil) Sediment Sludge Air Oil Solid Liquid Wipe Priority: Regular Moderate Urgent

Sample Collector: RANDOLPH L. BROWN KDHE/BER Date: 11-08-01 Time: __ __ __
Name Agency (Abbr) Mo Day Yr 24 Hour

Program Code:

EA	EB	EC	ED	EE	EF	EG	EH	EK	EL	EM	EN	(EP)	ET	EW	EX	EZ
ES	FK	LM	SC	SE	SG	SN	SP	SW	PC	PD	PE	PG	PI	PL	PP	PT
PU	PV	WE	WI	HD	HF	HL	HS	RP	AR	GS	KC	US	AQ	RT	WC	

Organic Chemistry Laboratory

Check Desired Analysis: ☐ Other _____ VOC Sample Acidified: ☐

☐ Volatiles Method: ☐ 624 ☐ 8260 ☐ 524.2 ☐ Pesticides Method: ☐ 608 ☐ 8080 ☐ 507/8

☐ Acids Method: ☐ 625 ☐ 8270 ☐ Base/Neutrals Method: ☐ 625 ☐ 8270 ☐ 525.2

☐ PCB's Method: ☐ 608 ☐ 8080 ☐ Oil ☐ Herbicides Method: ☐ 615 ☐ 8150 ☐ 515.1

Inorganic Chemistry Laboratory

Bottle Nos.: Chem _____ DO _____ NUT _____ HM _____ CN _____ O&G _____ Phenol _____

Check Desired Analysis: ☐ Other _____

☒ Metals ☐ Mercury ☐ Mineral ☐ TCLP

Radiation Chemistry Laboratory

Check Desired Analysis: ☐ Other _____

☐ Gross Alpha ☐ Gross Uranium ☐ Ra-226 ☐ Ra-228

Sample Comments: NEED RESULTS BY 11/22 FOR YARD REMOVAL PROJECT

Chain of Custody:

Date _____ Relinquished By _____ Received By _____

Date _____ Relinquished By _____ Received By _____

Date _____ Relinquished By _____ Received By _____

Additional Reports Routed To:

Name _____ Address _____

Name _____ Address _____

Name _____ Address _____

Instructions for this form are printed on the reverse side

Kansas Department of Health and Environment
Division of Health and Environmental Laboratories
Forbes Field, Building 740
Topeka, Kansas 66620-0001

Lab Number: _____
Date Received: _____
Analysis Code: _____

Sample Submission Form

Report To: RANDY BROWN/BER Address: 4th FLOOR SIGNATURE BUILDING

Collection Site: CHERRYVALE RESIDENTIAL YARDS
Legal | Project Code | Name | PWS Acct. No.

Site ID Number: ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ Collection Depth: __ __ __ __ Feet

Sample Type: Water (Soil) Sediment Sludge Air Oil Solid Liquid Wipe Priority: Regular Moderate Urgent

Sample Collector: RANDOLPH L. BROWN KDHE/BER Date: 11-08-01 Time: __ __ __ __
Name | Agency (Abbr) | Mo Day Yr | 24 Hour

Program Code:

EA	EB	EC	ED	EE	EF	EG	EH	EK	EL	EM	EN	(EP)	ET	EW	EX	EZ
ES	FK	LM	SC	SE	SG	SN	SP	SW	PC	PD	PE	PG	PI	PL	PP	PT
PU	PV	WE	WI	HD	HF	HL	HS	RP	AR	GS	KC	US	AQ	RT	WC	

Organic Chemistry Laboratory

Check Desired Analysis: ☐ Other _____ VOC Sample Acidified: ☐

☐ Volatiles Method: ☐ 624 ☐ 8260 ☐ 524.2 ☐ Pesticides Method: ☐ 608 ☐ 8080 ☐ 507/8

☐ Acids Method: ☐ 625 ☐ 8270 ☐ Base/Neutrals Method: ☐ 625 ☐ 8270 ☐ 525.2

☐ PCB's Method: ☐ 608 ☐ 8080 ☐ Oil ☐ Herbicides Method: ☐ 615 ☐ 8150 ☐ 515.1

Inorganic Chemistry Laboratory

Bottle Nos.: Chem _____ DO _____ NUT _____ HM _____ CN _____ O&G _____ Phenol _____

Check Desired Analysis: ☐ Other _____

☒ Metals ☐ Mercury ☐ Mineral ☐ TCLP

Radiation Chemistry Laboratory

Check Desired Analysis: ☐ Other _____

☐ Gross Alpha ☐ Gross Uranium ☐ Ra-226 ☐ Ra-228

Sample Comments: NEED RESULTS BY 11/22 FOR YARD REMOVAL PROJECT

Chain of Custody:

Date _____ Relinquished By _____ Received By _____

Date _____ Relinquished By _____ Received By _____

Date _____ Relinquished By _____ Received By _____

Additional Reports Routed To:

Name _____ Address _____

Name _____ Address _____

Name _____ Address _____

Instructions for this form are printed on the reverse side

Kansas Department of Health and Environment
Division of Health and Environmental Laboratories
Forbes Field, Building 740
Topeka, Kansas 66620-0001

Lab Number: _____
Date Received: _____
Analysis Code: _____

Sample Submission Form

Report To: RANDY BROWN/BER Address: 4th FLOOR SIGNATURE BUILDING

Collection Site: CHERRYVALE RESIDENTIAL YARDS
Legal | Project Code | Name | PWS Acct. No.

Site ID Number: ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ Collection Depth: __ __ __ Feet

Sample Type: Water (Soil) Sediment Sludge Air Oil Solid Liquid Wipe Priority: Regular Moderate Urgent

Sample Collector: RANDOLPH L. BROWN KDHE/BER Date: 11 - 08 - 01 Time: __ __ __ __
Name | Agency (Abbr) | Mo Day Yr | 24 Hour

Program Code:

EA	EB	EC	ED	EE	EF	EG	EH	EK	EL	EM	EN	(EP)	ET	EW	EX	EZ
ES	FK	LM	SC	SE	SG	SN	SP	SW	PC	PD	PE	PG	PI	PL	PP	PT
PU	PV	WE	WI	HD	HF	HL	HS	RP	AR	GS	KC	US	AQ	RT	WC	

Organic Chemistry Laboratory

Check Desired Analysis: ☐ Other _____ VOC Sample Acidified: ☐

☐ Volatiles Method: ☐ 624 ☐ 8260 ☐ 524.2 ☐ Pesticides Method: ☐ 608 ☐ 8080 ☐ 507/8

☐ Acids Method: ☐ 625 ☐ 8270 ☐ Base/Neutrals Method: ☐ 625 ☐ 8270 ☐ 525.2

☐ PCB's Method: ☐ 608 ☐ 8080 ☐ Oil ☐ Herbicides Method: ☐ 615 ☐ 8150 ☐ 515.1

Inorganic Chemistry Laboratory

Bottle Nos.: Chem _____ DO _____ NUT _____ HM _____ CN _____ O&G _____ Phenol _____

Check Desired Analysis: ☐ Other _____

☒ Metals ☐ Mercury ☐ Mineral ☐ TCLP

Radiation Chemistry Laboratory

Check Desired Analysis: ☐ Other _____

☐ Gross Alpha ☐ Gross Uranium ☐ Ra-226 ☐ Ra-228

Sample Comments: NEED RESULTS BY 11/22 FOR YARD REMOVAL PROJECT

Chain of Custody:

Date _____ Relinquished By _____ Received By _____

Date _____ Relinquished By _____ Received By _____

Date _____ Relinquished By _____ Received By _____

Additional Reports Routed To:

Name _____ Address _____

Name _____ Address _____

Name _____ Address _____

Instructions for this form are printed on the reverse side

ATTACHMENT D

FIELD XRF ANALYTICAL SHEETS

KDHE/Bureau of Environmental Remediation
Site Assessment Program
Niton 733 X-Ray Fluorescence (XRF) Soil Analysis Field Data Sheets

Date: 10/31/01 Site Name: Cherryvale Residential Yards Site Operator Name: P. Haxton

System Check, Warm-Up and Internal Calibration Notes:
Res 392 eV; SStrength 7 mCi

Method 6200 Utilized? Y X N __ In-situ readings? Y X N __
If N, briefly explain sample preparation, homogenization, sample drying time/temp, analysis notes, etc.:

Sample I.D. #	XRF Entry #:	Source:	Run Time (sec.):	Lead (mg/kg):	Comments, Other Constituents, Concentrations, etc.
Med SFd	8	Cd109	34	1190 ± 100	
500 W 1st. 1	9	Cd109	31	567 ± 90	
-1	10	Am241	30	Ba 284.0 ± 110	
-2	11	Cd109	31	501 ± 83.0	Cr 1220 ± 740
-2	12	Am241	32	Ba 478 ± 130	
-3	13	Cd109	32	65.6 ± 36	
3	14	Am241	33	Ba < 94.0	
-4	15	Cd109	31	190.0 ± 51	
-4	16	Am241	31	Ba 293 ± 85	
-5	17	Cd109	31	123 ± 42	Cr 1100 ± 670
-5	18	Am241	30	Ba 372 ± 100	
506 W 1st -1	19	Cd109	31	200 ± 53.0	Cr 1090 ± 670
-1	20	Am241	30	Ba 403 ± 120	
-2	21	Cd109	30	432 ± 71	Cr 1700 ± 690
-2	22	Am241	30	Ba 337.0 ± 100	
-3	23	Cd109	31	400 ± 69.0	
-3	24	Cd109	31	393 ± 70	Field Dup.
-3	25	Am241	30	Ba 316 ± 120	

KDHE/Bureau of Environmental Remediation
Site Assessment Program
Niton 733 X-Ray Fluorescence (XRF) Soil Analysis Field Data Sheets

Date: 10-31-01 Site Name: Cherryvale Residential Yards Site Operator Name: P Haxton

System Check, Warm-Up and Internal Calibration Notes:

Method 6200 Utilized? Y X N ___ In-situ readings? Y X N ___
If N, briefly explain sample preparation, homogenization, sample drying time/temp, analysis notes, etc.:

Sample I.D. #	XRF Entry #:	Source:	Run Time (sec.):	Lead (mg/kg):	Comments, Other Constituents, Concentrations, etc.
506 W 1st -4	26	Cd 109	31	86.3 ± 37	
-4	27	Am 241	33	457 ± 120	
-5	28	Cd 109	31	86.1 ± 32.0	
-5	29	Am 241	30	Ba 184 ± 80	
Med Std	30	Cd 109	31	1190 ± 110	
514 W 1st - 1	31	Cd 109	31	454 ± 71	Cr 946 ± 590
-1	32	Cd 109	31	452 ± 71	field dup
-1	33	Am 241	30	311 ± 120	
-2	34	Cd 109	31	253 ± 55.0	
-2	35	Am 241	32	Ba 169 ± 79	
-3	36	Cd 109	31	500 ± 71.0	
-3	37	Am 241	30	Ba 271 ± 120	
-4	38	Cd 109	31	336 ± 61	Cr 949 ± 500
-4	39	Am 241	32	Ba 386 ± 130	
-5	40	Cd 109	30	350 ± 50	
-5	41	Am 241	30	Ba 301 ± 98	

KDHE/Bureau of Environmental Remediation
Site Assessment Program
Niton 733 X-Ray Fluorescence (XRF) Soil Analysis Field Data Sheets

Date: 10-31-01 Site Name: Cherryvale Residential Yards Site Operator Name: P Hax ton

System Check, Warm-Up and Internal Calibration Notes:

Method 6200 Utilized? Y __ N __ In-situ readings? Y __ N __
If N, briefly explain sample preparation, homogenization, sample drying time/temp, analysis notes, etc.:

Sample I.D. #	XRF Entry #:	Source:	Run Time (sec.):	Lead (mg/kg):	Comments, Other Constituents, Concentrations, etc.
532U1 - 1	42	Cd109	31	272 ± 56	
- 1	43	Am241	32	Ba 261 ± 100	
- 2	44	Cd109	31	607 ± 79	
- 2	45	Am 241	33	Ba 515 ± 120	
- 3	46	Cd109	31	749 ± 87	
- 3	47	Cd109	31	791 ± 88	
- 3	48	Am241	34	Ba 473 ± 120	
- 4	49	Cd109	34	357 ± 54	
- 4	50	Am241	33	Ba 379 ± 110	
- 5	51	Cd 109	31	131 ± 39	Cr 974 ± 540
- 5	52	Am 241	30	Ba 305 ± 94	
Med Std	53	Cd 109	31	1160 ± 100	
511 431st - 1	54	Cd109	31	<49.0	
- 1	55	Am241	32	Ba <95.0	
- 2	56	Cd 109	30	649 ± 86	Cr 1290 ± 650
- 2	57	Cd109	31	596 ± 81	Cr 1460 ± 640
- 2	58	Am 241	32	Ba 183 ± 81	

KDHE/Bureau of Environmental Remediation
Site Assessment Program
Niton 733 X-Ray Fluorescence (XRF) Soil Analysis Field Data Sheets

Date: 10-31-01 Site Name: Cherryvale Residential Yards Site Operator Name: P. Haxton

System Check, Warm-Up and Internal Calibration Notes:

Method 6200 Utilized? Y X N ___ In-situ readings? Y X N ___
If N, briefly explain sample preparation, homogenization, sample drying time/temp, analysis notes, etc.:

Sample I.D. #	XRF Entry #:	Source:	Run Time (sec.):	Lead (mg/kg):	Comments, Other Constituents, Concentrations, etc.
511 W 1st -3	59	Cd109	31	184 ± 44	Under swing set
-3	60	Am241	33	Ba 346 ± 99	
-4	61	Cd109	31	314 ± 52	
-4	62	Am241	33	Ba 323 ± 100	
-5	63	Cd109	30	389 ± 69	Cr 2200 ± 810
-5	64	Am241	30	Ba 538 ± 130	
527 W 1st -1	65	Cd109	31	393 ± 68.0	
-1	66	Am241	33	Ba 232 ± 980	
-2	67	Cd109	31	346 ± 68	Cr 1160 ± 698
-2	68	Am241	38	Ba 308 ± 98	
-3	69	Cd109	31	408 ± 65	
-3	70	Cd109	31	434 ± 67	
-3	71	Am241	32	Ba 474 ± 130	
-4	72	Cd109	31	587 ± 77	Cr 1090 ± 600
-4	73	Am241	30	Ba 472 ± 120	
-5	74	Cd109	31	313 ± 58	Cr 1170 ± 660
-5	75	Am241	30	Ba 482 ± 120	
Med Std	76	Cd109	30	1200 ± 110	

KDHE/Bureau of Environmental Remediation
Site Assessment Program
Niton 733 X-Ray Fluorescence (XRF) Soil Analysis Field Data Sheets

Date: 10-31-01 Site Name: Cherryvale Residential Yards Site Operator Name: PHaxton

System Check, Warm-Up and Internal Calibration Notes:

Method 6200 Utilized? Y X N __ In-situ readings? Y X N __
If N, briefly explain sample preparation, homogenization, sample drying time/temp, analysis notes, etc.:

Sample I.D. #	XRF Entry #:	Source:	Run Time (sec.):	Lead (mg/kg):	Comments, Other Constituents, Concentrations, etc.
509W 1st-1	77	Cd109	31	807 ± 90	Cr 1100 ± 630
-1	78	Am241	33	Ba 317 ± 98	
-2	79	Cd109	32	324 ± 68.0	
-2	80	Am241	32	Ba 209 ± 110	
-3	81	Cd109	31	185 ± 47	
-3	82	Am241	30	285 ± 92	
-4	83	Cd109	30	481 ± 74	Cr 1350 ± 780
-4	84	Cd109	30	543 ± 75.0	Cr 1530 ± 740
-4	85	Am241	29	Ba 674 ± 140	
-5	86	Cd109	30	1040 ± 99	Children's play area Cr 1320 ± 660
-5	87	Am241	33	Ba 667 ± 140	
Med Std	88	Cd109	30	1100 ± 100	

KDHE/Bureau of Environmental Remediation
Site Assessment Program
Niton 733 X-Ray Fluorescence (XRF) Soil Analysis Field Data Sheets

Date: 11/8/01 Site Name: Cherryvale Residential Yards Site Operator Name: PHaxton

System Check, Warm-Up and Internal Calibration Notes:
Res. 400eV
SStrength 7 mCi

Method 6200 Utilized? Y __ N __ In-situ readings? Y __ N __
If N, briefly explain sample preparation, homogenization, sample drying time/temp, analysis notes, etc.:

Sample I.D. #	XRF Entry #:	Source:	Run Time (sec.):	Lead (mg/kg):	Comments, Other Constituents, Concentrations, etc.
~~Lindquist Lot~~ Med Std	90	Cd109	30	1230 ± 110	
Lindquist Lot -1	91	Cd109	31	241 ± 47	
-1	92	Cd109	31	272 ± 49	
-2	93	Cd109	31	352 ± 55	
-3	94	Cd109	31	290 ± 65	Cr 1360 ± 730
-4	95	Cd109	31	503 ± 63	
-4	96	Am241	30	Ba 455 ± 130	Cd < 70
-5	97	Cd109	31	193 ± 47.0	
606W 1st -1	98	Cd109	31	232 ± 53	Cr 992 ± 610
-2	99	Cd109	31	393 ± 56.0	
-3	100	Cd109	31	834 ± 82	Cr 946.0 ± 520
-3	101	Cd109	31	808 ± 82	
-3	102	Am241	30	Ba 274 ± 86	Cd < 80.0
-4	103	Cd109	31	544 ± 67	
-4	104	Am241	31	Ba 346 ± 95	Cd < 70.0
-5	105	Cd109	31	663 ± 81	
-5	106	Am241	35	Ba 291 ± 89	Cd < 70

KDHE/Bureau of Environmental Remediation
Site Assessment Program
Niton 733 X-Ray Fluorescence (XRF) Soil Analysis Field Data Sheets

Date: 11-8-01 Site Name: Cherryvale Residential Yards Site Operator Name: PHaxton

System Check, Warm-Up and Internal Calibration Notes:
Shut down ~ 1210;
Recall 1348: Res 392 ev; 7mCi;

Method 6200 Utilized? Y __ N __ In-situ readings? Y __ N __
If N, briefly explain sample preparation, homogenization, sample drying time/temp, analysis notes, etc.:

Sample I.D. #	XRF Entry #:	Source:	Run Time (sec.):	Lead (mg/kg):	Comments, Other Constituents, Concentrations, etc.
635 W1st -1	107	Cd109	31	458 ± 71.0	
-2	108	Cd109	30	531 ± 83	
-2	109	Am241	33	Ba 642 ± 160	Cd < 91.0
-3	110	Cd109	31	193 ± 46	
-4	111	Cd109	31	116 ± 38	Cr 989 ± 520
-5	112	Cd109	31	365 ± 61	
-5	113	Am241	31	Ba 342 ± 100	Cd < 73.0
-5	114	Cd109	31	453 ± 69	Under kid's playhouse
Low Std	115	Cd109	34	< 42.0	
Hi Std	117	Cd109	32	5720 ± 266	
640 W 2nd -1	118	Cd109	31	220 ± 44	
-2	119	Cd109	31	130 ± 42	
-2	120	Cd109	31	195 ± 49	
-3	121	Cd109	31	117 ± 39	
-4	122	Cd109	31	80.7 ± 32	
-5	123	Cd109	32	< 45.0	
630 W 2nd -1	124	Cd109	32	478 ± 85	- drop - on sidewalk
-1	125	Cd109	31	409 ± 65	

KDHE/Bureau of Environmental Remediation
Site Assessment Program
Niton 733 X-Ray Fluorescence (XRF) Soil Analysis Field Data Sheets

Date: 11/8/01 Site Name: Cherryvale Residential Yards Site Operator Name: D Haxton

System Check, Warm-Up and Internal Calibration Notes:

Method 6200 Utilized? Y __ N __ In-situ readings? Y __ N __
If N, briefly explain sample preparation, homogenization, sample drying time/temp, analysis notes, etc.:

Sample I.D. #	XRF Entry #:	Source:	Run Time (sec.):	Lead (mg/kg):	Comments, Other Constituents, Concentrations, etc.
630W 2nd - 2	126	Cd109	31	137 ± 41	Cr 1160 ± 560
-3	127	Cd109	31	102 ± 36	
-3	128	Cd109	32	127 ± 40	
-4	129	Cd109	31	374 ± 61	
-5	130	Cd109	32	230 ± 51.0	
-6	131	Cd109	32	276 ± 66	
Med Std	132	Cd109	30	1120 ± 100	
614 W 2nd -1	133	Cd109	31	68.6 ± 29	
-2	134	Cd109	32	76.7 ± 33	
-3	135	Cd109	31	57.7 ± 30	
-3	136	Cd109	35	65.1 ± 31	
-4	137	Cd109	31	56.9 ± 26	
-5	138	Cd109	31	295 ± 67	
-6	139	Cd109	31	306 ± 55	
-7	140	Cd109	32	< 31.0	
-8	141	Cd109	31	97.6 ± 33	
-9	142	Cd109	31	168 ± 44	
-10	143	Cd109	32	134 ± 47	

KDHE/Bureau of Environmental Remediation
Site Assessment Program
Niton 733 X-Ray Fluorescence (XRF) Soil Analysis Field Data Sheets

Date: _____ Site Name: Cherryvale Residential Yards Site Operator Name: _____

System Check, Warm-Up and Internal Calibration Notes:

_____

_____

Method 6200 Utilized? Y __ N __ In-situ readings? Y __ N __
If N, briefly explain sample preparation, homogenization, sample drying time/temp, analysis notes, etc.:

_____

Sample I.D. #	XRF Entry #:	Source:	Run Time (sec.):	Lead (mg/kg):	Comments, Other Constituents, Concentrations, etc.
-11	144	Cd109	31	67.3 ± 35	
-12	145	Cd109	31	118 ± 34	
-13	147	Cd109	31	140 ± 36	
-13	148	Cd109	38	178 ± 35	
-14	149	Cd109	32	96.2 ± 35	
-15	150	Cd109	32	150 ± 32	
-16	151	Cd109	35	<46.0	
Lo Std	152	Cd109	30	<41.0	

KDHE/Bureau of Environmental Remediation
Site Assessment Program
Niton 733 X-Ray Fluorescence (XRF) Soil Analysis Field Data Sheets

Date: 11/15/01 Site Name: Cherryvale Residential Yards Site Operator Name: PHaxton

System Check, Warm-Up and Internal Calibration Notes:
Res:
SStrength:

Method 6200 Utilized? Y X N __ In-situ readings? Y X N __
If N, briefly explain sample preparation, homogenization, sample drying time/temp, analysis notes, etc.:

Sample I.D. #	XRF Entry #:	Source:	Run Time (sec.):	Lead (mg/kg):	Comments, Other Constituents, Concentrations, etc.
High Std	156	Cd109	35	5530 ± 240	
534 W 2nd-1	157	Cd109	31	238 ± 53	827 ± 550 Cr
-1	158	Cd 109	31	252 ± 54	
-2	159	Cd109	31	235 ± 48	
-3	160	Cd109	31	163 ± 41	
-4	161	Cd109	31	400 ± 59	sampled
-5	162	Cd109	37	130 ± 32	
-6	163	Cd109	31	82.9 ± 34	
524 W 2nd-1	164	Cd109	30	586 ± 68	Cr 887 ± 480
-2	165	Cd109	31	445 ± 77	Cr 1110 ± 590
-2	166	Cd109	31	402 ± 69	
-3	167	Cd109	31	184 ± 38	Cr 688 ± 370
-4	168	Cd109	31	314 ± 62.0	
-5	169	Cd109	30	273 ± 54	
-6	170	Cd109	30	432 ± 56	Cr 758 ± 400
High Std	171	Cd 109	32	5600 ± 250	

KDHE/Bureau of Environmental Remediation
Site Assessment Program
Niton 733 X-Ray Fluorescence (XRF) Soil Analysis Field Data Sheets

Date: 11/15/01 Site Name: Cherryvale Residential Yards Site Operator Name: PHaxton

System Check, Warm-Up and Internal Calibration Notes:

Method 6200 Utilized? Y X N __ In-situ readings? Y X N __
If N, briefly explain sample preparation, homogenization, sample drying time/temp, analysis notes, etc.:

Sample I.D. #	XRF Entry #:	Source:	Run Time (sec.):	Lead (mg/kg):	Comments, Other Constituents, Concentrations, etc.
Sidewalk	172	Cd109	30	864 ± 100	Soil adjacent to sidewalk Cr 2640 ± 800
516 W 2nd - 1	173	Cd 109	30	881 ± 77	Cr 660 ± 420
Fence	174	Cd 109	13	578 ± 88	LBP on fence
516 W 2nd - 1	175	Cd 109	31	465 ± 59	Cr 742 ± 400
- 2	176	Cd 109	31	247 ± 47	
- 3	177	Cd 109	27	223 ± 59	
- 4	178	Cd 109	30	398 ± 57	
- 4	179	Cd 109	31	352 ± 53	
- 5	180	Cd 109	31	415 ± 66	
508 W 2nd - 1	181	Cd 109	31	299 ± 51	Cr 1040 ± 550
- 2	182	Cd 109	31	354 ± 56	Cr 1070 ± 470
- 2	183	Cd 109	31	346 ± 55	
- 3	184	Cd 109	31	285 ± 56	
- 4	185	Cd 109	31	271 ± 48	Cr 1000 ± 500
- 5	186	Cd 109	31	353 ± 56	Cr 900 ± 510
Cayle ERROW - 1	187	Cd 109	30	279 ± 52	
- 2	188	Cd 109	30	610 ± 84	
- 3	189		13	632 ± 120	after clearing surf debris

KDHE/Bureau of Environmental Remediation
Site Assessment Program
Niton 733 X-Ray Fluorescence (XRF) Soil Analysis Field Data Sheets

Date: 11/15/01 Site Name: Cherryvale Residential Yards Site Operator Name: P Hoxton

System Check, Warm-Up and Internal Calibration Notes:

Method 6200 Utilized? Y __ N __ In-situ readings? Y __ N __
If N, briefly explain sample preparation, homogenization, sample drying time/temp, analysis notes, etc.:

Sample I.D. #	XRF Entry #:	Source:	Run Time (sec.):	Lead (mg/kg):	Comments, Other Constituents, Concentrations, etc.
Coyle ERRW-3	190	Cd109	30	143±40	
Med Std	191	Cd109	30	1180± 100	
529 W 1st-1	192	Cd109	31	154± 40	
-2	193	Cd109	31	423±69	Cr 1320± 580
-3	194	Cd109	31	70.1 ±30	Cr 897±430
-4	195	Cd109	32	391±66	Cr 1050±530
-4	196	Cd109	35	397±69	Cr 776 ±490
-5	197	Cd109	31	72.9±30	
-6	198	Cd109	31	<38.0	
Empty Lot 1st School-1	199	Cd109	31	373±61	Cr 801±490
-2	200	Cd109	31	516±94	
-2	201	Cd109	31	593±99	
-3	202	Cd109	31	474±64	
-4	203	Cd109	31	109±35	
-5	204	Cd109	31	390±63	
SPROW 2nd-1	205	Cd109	31	128±42	
-2	206	Cd109	31	90.9± 33	

KDHE/Bureau of Environmental Remediation
Site Assessment Program
Niton 733 X-Ray Fluorescence (XRF) Soil Analysis Field Data Sheets

Date: 11/15/01 Site Name: Cherryvale Residential Yards Site Operator Name: PHaxton

System Check, Warm-Up and Internal Calibration Notes:

Method 6200 Utilized? Y X N __ In-situ readings? Y X N __
If N, briefly explain sample preparation, homogenization, sample drying time/temp, analysis notes, etc.:

Sample I.D. #	XRF Entry #:	Source:	Run Time (sec.):	Lead (mg/kg):	Comments, Other Constituents, Concentrations, etc.
638 W 1st -1	207	Cd109	31	285±49	
-2	208	Cd109	31	137±40	
-3	209	Cd109	30	188±41	
-3	210	Cd109	31	206±41	
-4	211	Cd109	30	344±61	
-5	212	Cd109	31	573±63	sampled
-6	213	Cd109	31	482±65	
-7	214	Cd109	31	614±76.0	sampled
High Std	215	Cd109	32	5540±260	

KDHE/Bureau of Environmental Remediation
Site Assessment Program
Niton 733 X-Ray Fluorescence (XRF) Soil Analysis Field Data Sheets

Date: 12/6/01 Site Name: Cherryvale Residential Yards Site Operator Name: PHaxton

System Check, Warm-Up and Internal Calibration Notes:
398 eV
6 mCi

Method 6200 Utilized? Y X N __ In-situ readings? Y __ N __
If N, briefly explain sample preparation, homogenization, sample drying time/temp, analysis notes, etc.:

Sample I.D. #	XRF Entry #:	Source:	Run Time (sec.):	Lead (mg/kg):	Comments, Other Constituents, Concentrations, etc.
Med Std	392	Cd	30	1180±100	
700 W 2nd -1	393	Cd	37	102±38	
-1	394	Cd	31	122±40	
-2	395	Cd	31	138±37	
-3	396	Cd	30	213±44	
-4	397	Cd	31	233±50	
-5	398	Cd	31	229±43	
334 W Front -1	399	Cd	31	221±47	
-2	400	Cd	31	232±48	
-3	401	Cd	30	309±55	
-3	402	Cd	30	274±51	
-4	403	Cd	31	166±42	
-5	404	Cd	31	314±54	
-6	405	Cd	31	127±38	
High Std	406	Cd	32	5860±270	

KDHE/Bureau of Environmental Remediation
Site Assessment Program
Niton 733 X-Ray Fluorescence (XRF) Soil Analysis Field Data Sheets

Date: 12/6/01 Site Name: Cherryvale Residential Yards Site Operator Name: [illegible]

System Check, Warm-Up and Internal Calibration Notes:

Method 6200 Utilized? Y __ N __ In-situ readings? Y __ N __
If N, briefly explain sample preparation, homogenization, sample drying time/temp, analysis notes, etc.:

Sample I.D. #	XRF Entry #:	Source:	Run Time (sec.):	Lead (mg/kg):	Comments, Other Constituents, Concentrations, etc.
435 Butler	407	Cd	31	264 ± 55	
-2	408	Cd	31	181 ± 42	
-3	409	Cd	31	168 ± 42	
-4	410	Cd	31	180 ± 47	
-4	411	Cd	31	171 ± 46	
-5	412	Cd	31	187 ± 44	
Med Std	413	Cd	30	1200 ± 100	

Page _____ of _____

ATTACHMENT E

RESIDENTIAL SAMPLING FORMS

National Zinc Site Sketch

Name: JOHN KOEHN

Date(s): 11/16/01

Sketch = JK

Address: 515 N 1st ST
Cherryvale, KS
67335

XRF I.D. Operator

Pre-Removal: see below + back of sheet ID

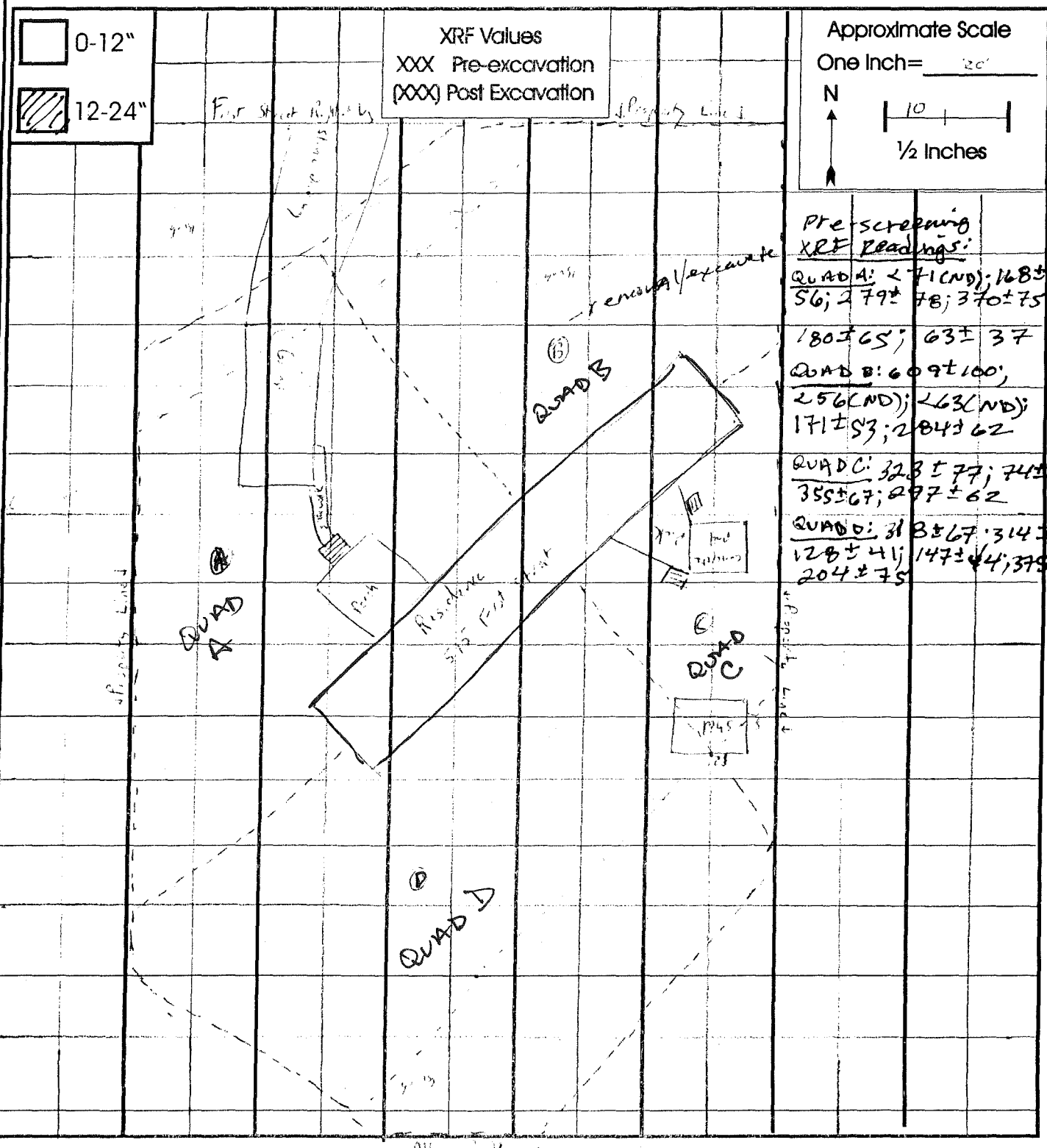
Post-Removal:

0-12"

12-24"

XRF Values
XXX Pre-excavation
(XXX) Post Excavation

Approximate Scale
One Inch= 20'
N
10
½ Inches



Pre-screening XRF Readings:

QUAD A: <71(ND); 168±56; 279±78; 370±75; 180±65; 63±37

QUAD B: 609±100; 256(ND); 263(ND); 171±53; 284±62

QUAD C: 323±77; 74±38; 355±67; 297±62

QUAD D: 318±67; 314±65; 128±41; 147±44; 375±78; 204±75

XRF Data for 515 W. First Street, Cherryvale, Kansas

Quadrant A: <71(ND); 168 +- 56; 279 +- 78; 370 +- 75; 180 +- 65; 63 +-37

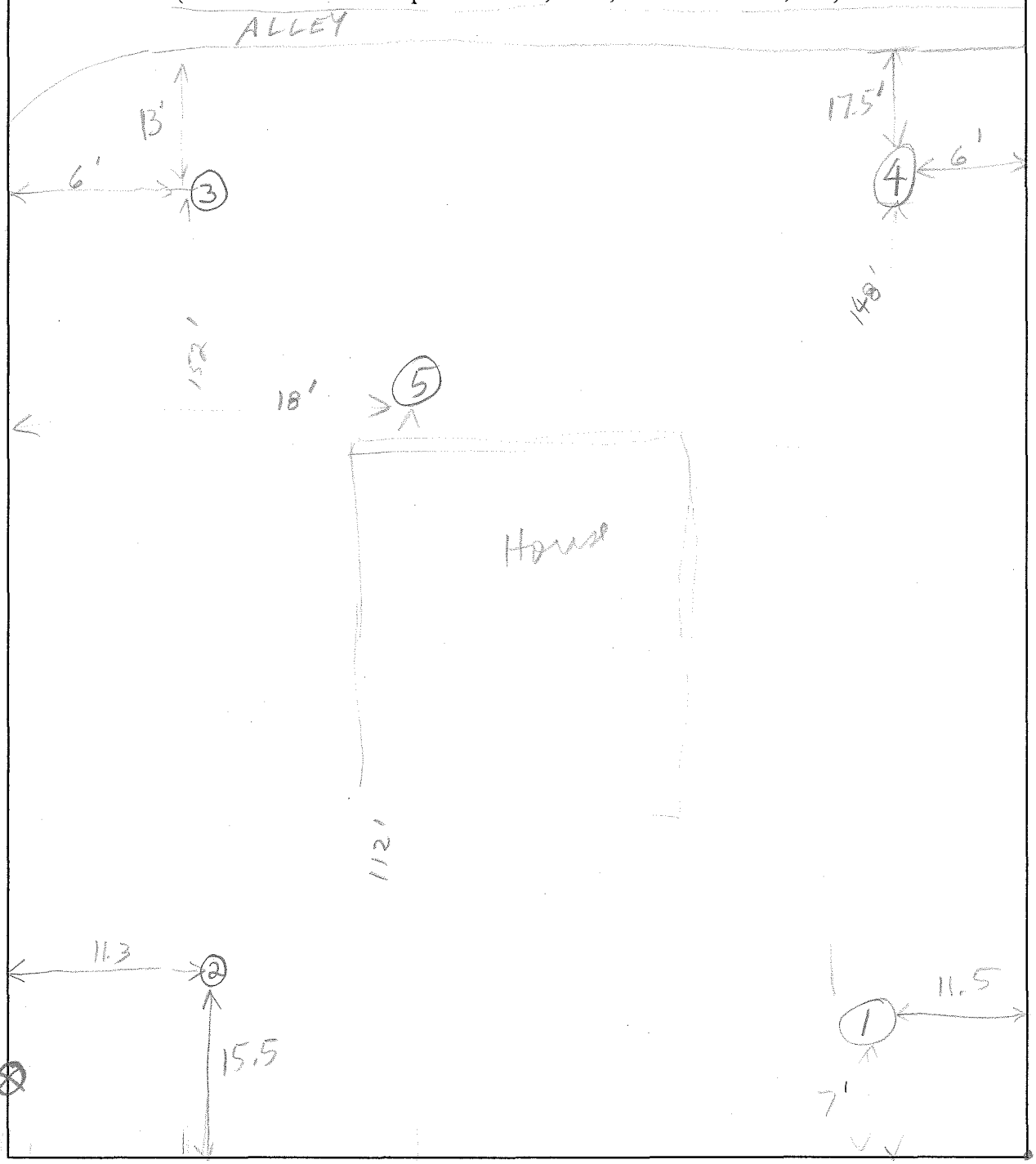
Quadrant B: 609 +- 100; <56 (ND); <63 (ND); 171 +- 53; 284 +- 62

Quadrant C: 323 +- 77; 74 +- 38; 355 +- 67; 297 +- 62

Quadrant D: 318 +- 67; 314 +- 65; 128 +- 41; 147 +- 44; 375 +- 78; 204 +- 75

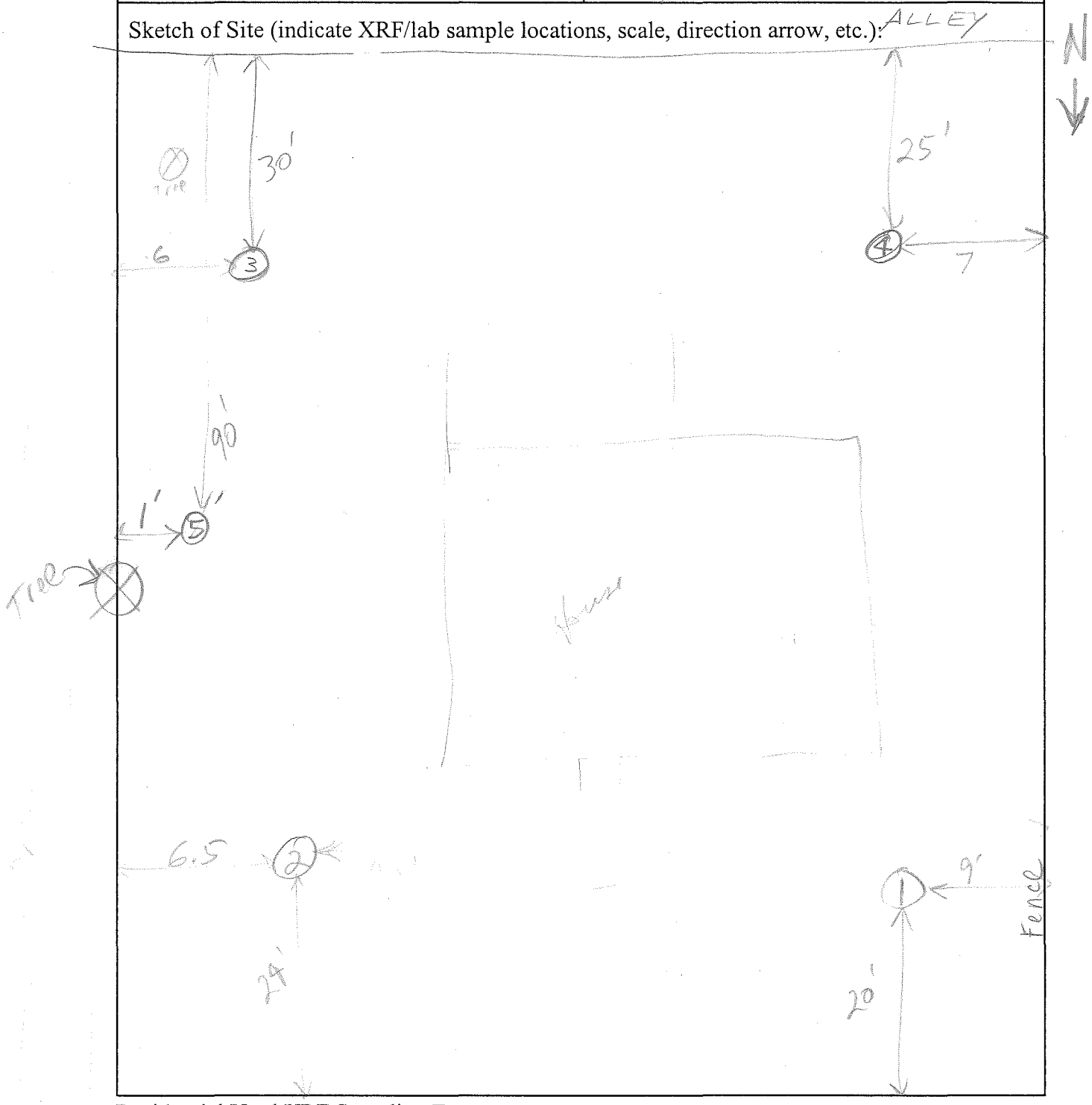
Cherryvale Residential Yard Sampling Form	
Resident Name:	Resident Address: 500 W. 1st

Sketch of Site (indicate XRF/lab sample locations, scale, direction arrow, etc.):



Cherryvale Residential Yard Sampling Form	
Resident Name: Blackburn	Resident Address: 509 W. 1st

Sketch of Site (indicate XRF/lab sample locations, scale, direction arrow, etc.):

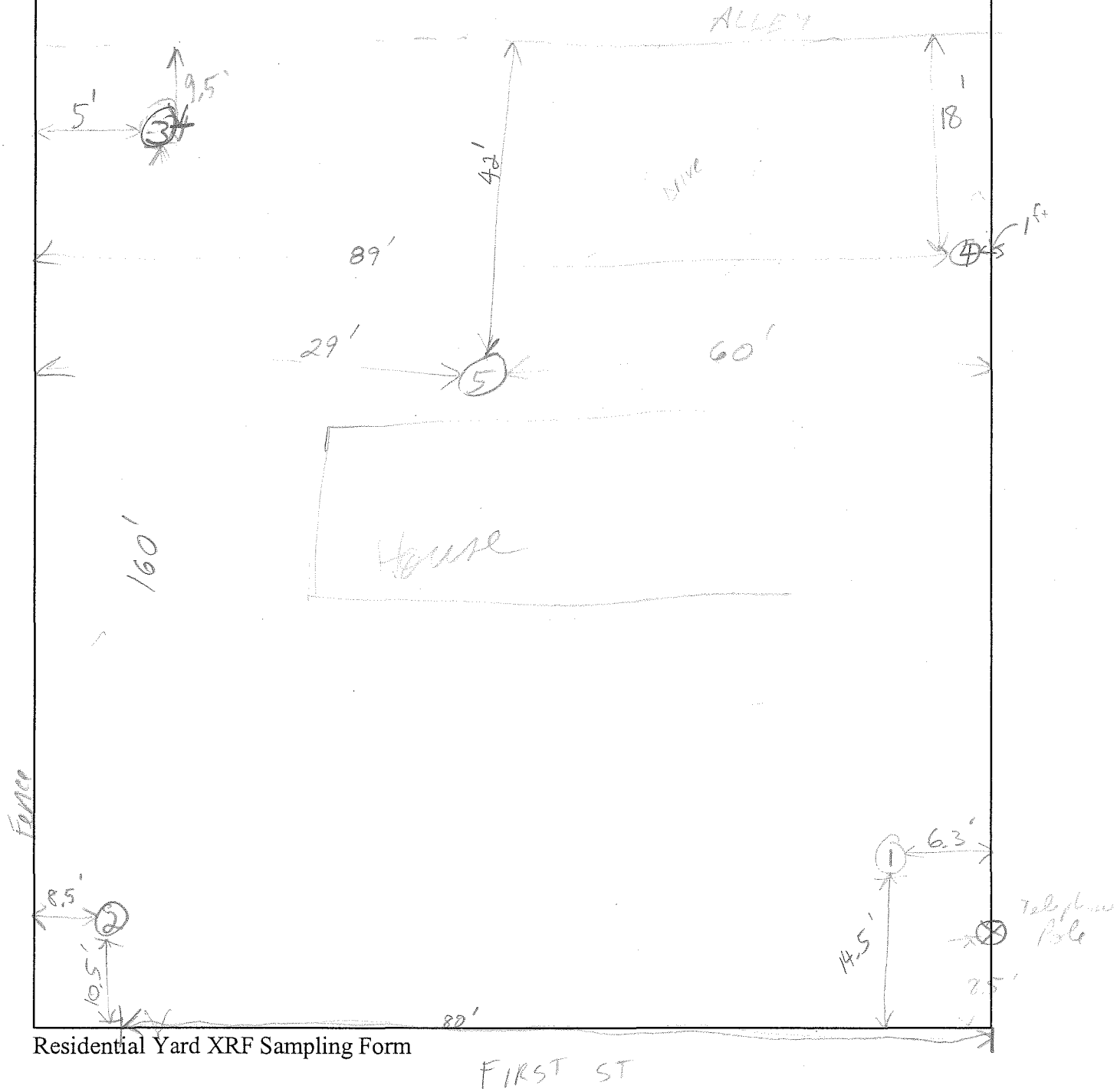


Residential Yard XRF Sampling Form

FIRST ST

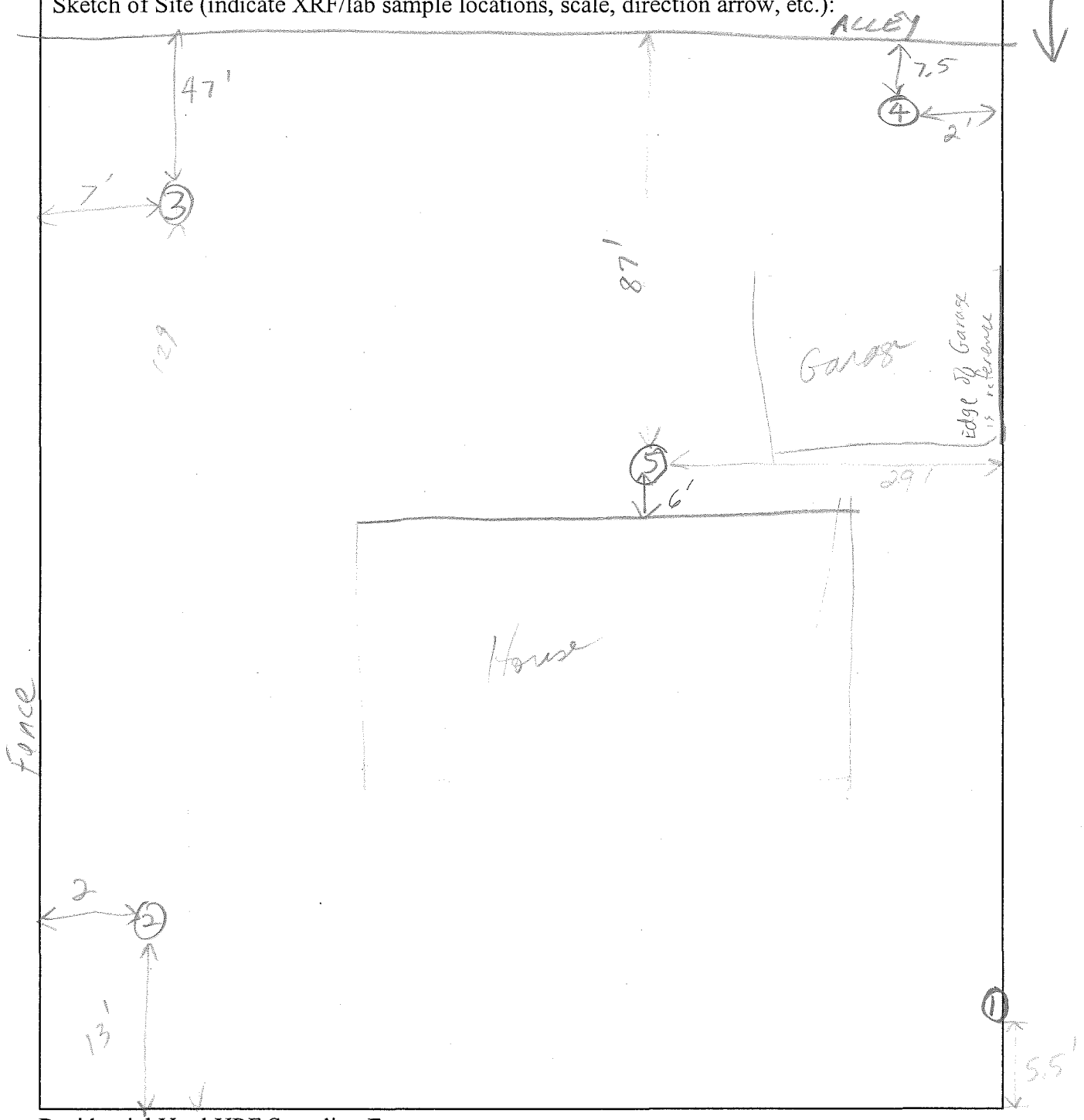
Cherryvale Residential Yard Sampling Form	
Resident Name:	Resident Address: 506 W-1st

Sketch of Site (indicate XRF/lab sample locations, scale, direction arrow, etc.):



Cherryvale Residential Yard Sampling Form	
Resident Name:	Resident Address: 511 W. 1st

Sketch of Site (indicate XRF/lab sample locations, scale, direction arrow, etc.):

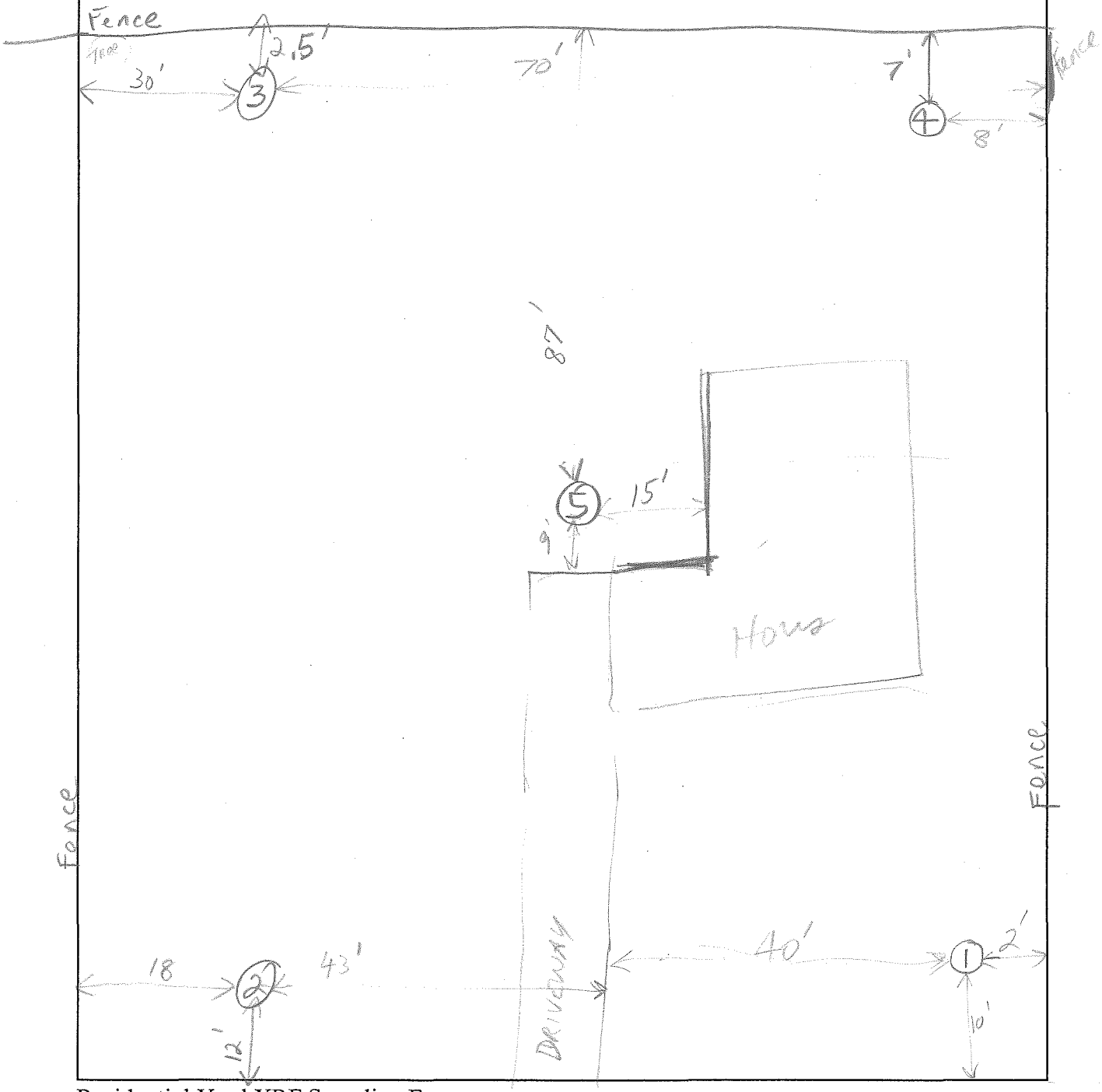


Residential Yard XRF Sampling Form

FIRST ST

Cherryvale Residential Yard Sampling Form	
Resident Name:	Resident Address: 514 W. 1st

Sketch of Site (indicate XRF/lab sample locations, scale, direction arrow, etc.):



Residential Yard XRF Sampling Form

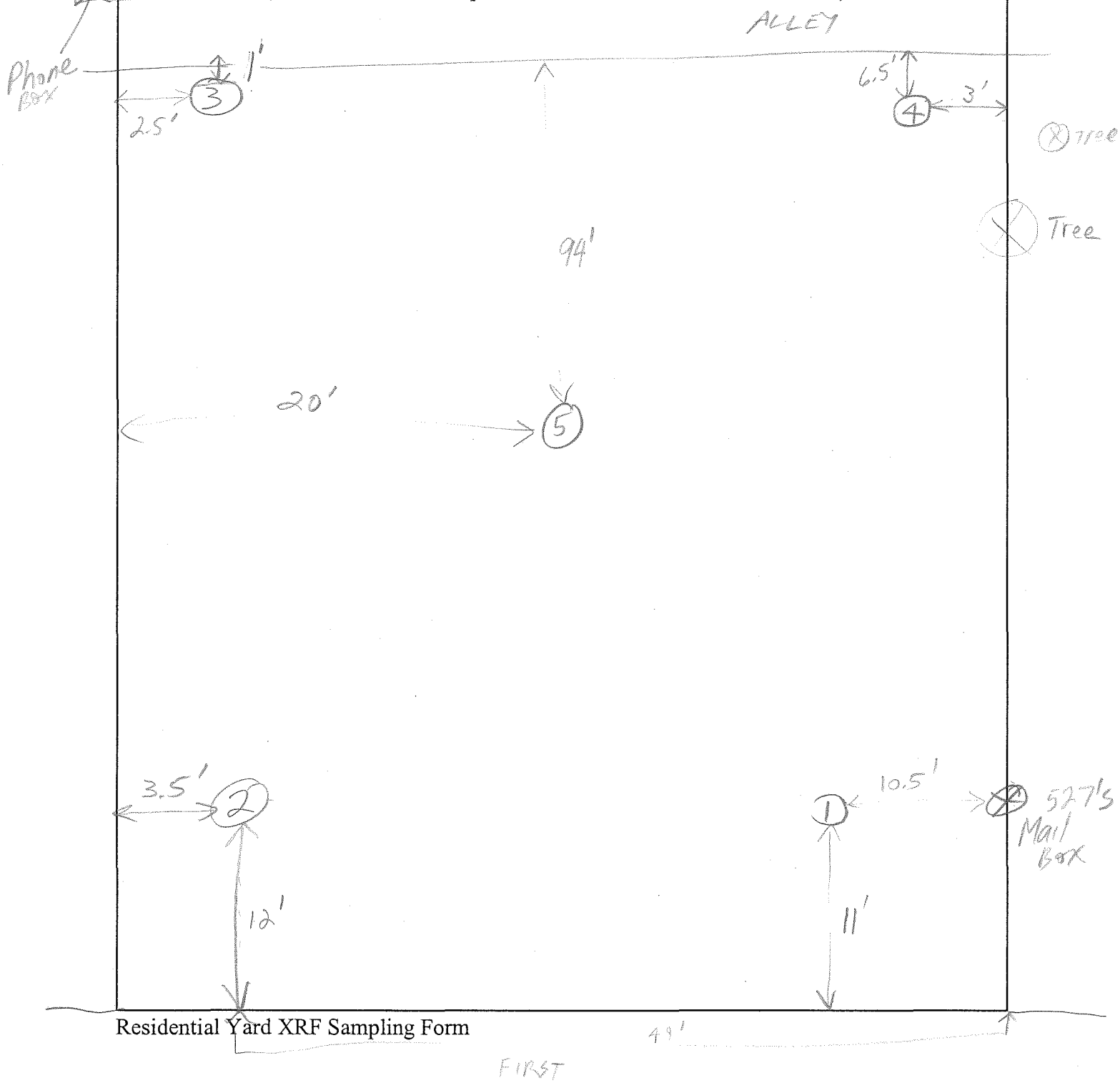
FIRST STREET

Cherryvale Residential Yard Sampling Form

Resident Name:	Resident Address: between 515 & 527 Lindquist Vacant lot 1st St.

N

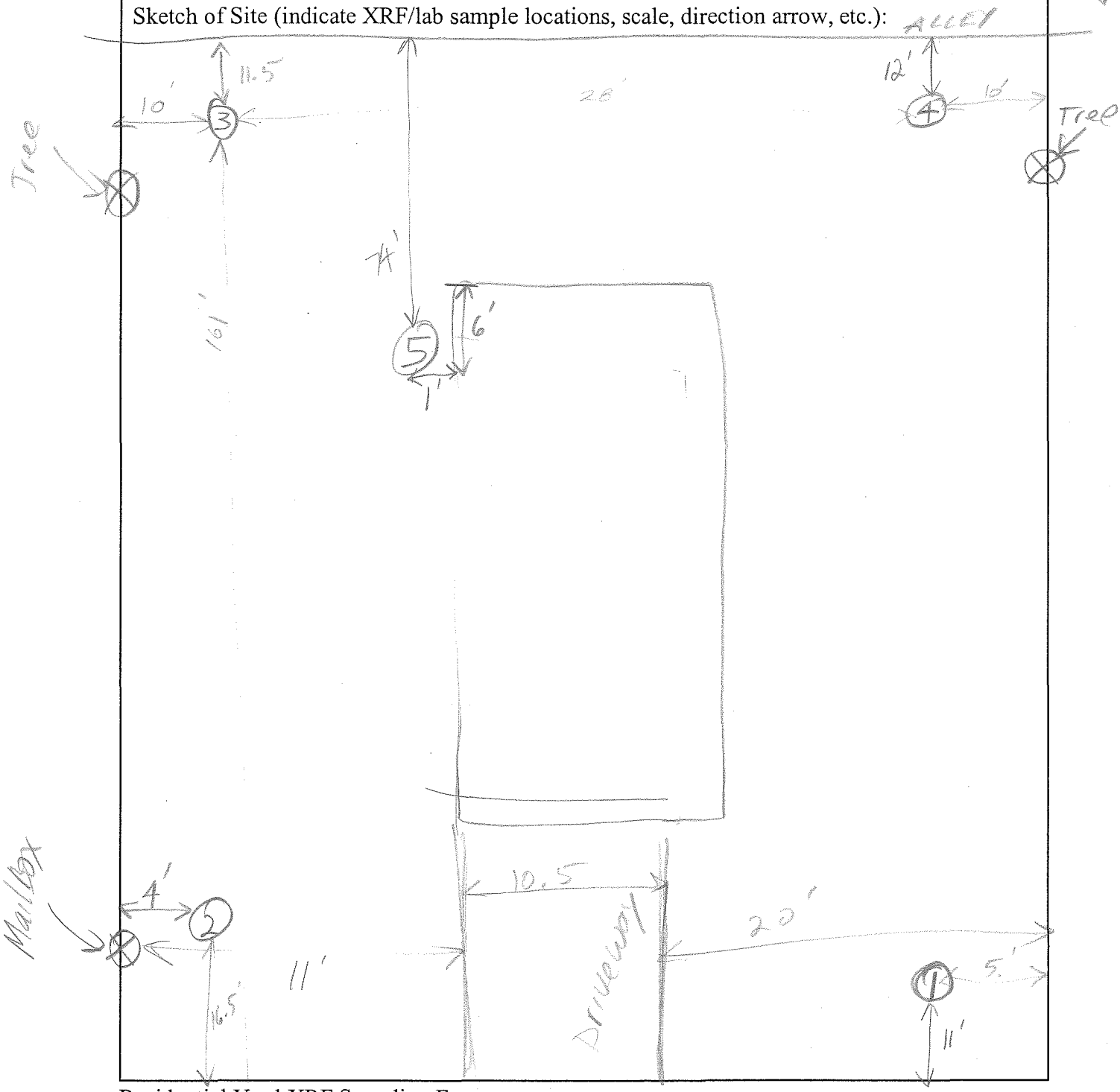
Sketch of Site (indicate XRF/lab sample locations, scale, direction arrow, etc.):



Cherryvale Residential Yard Sampling Form

Resident Name:	Resident Address: 527 W 1st

Sketch of Site (indicate XRF/lab sample locations, scale, direction arrow, etc.):

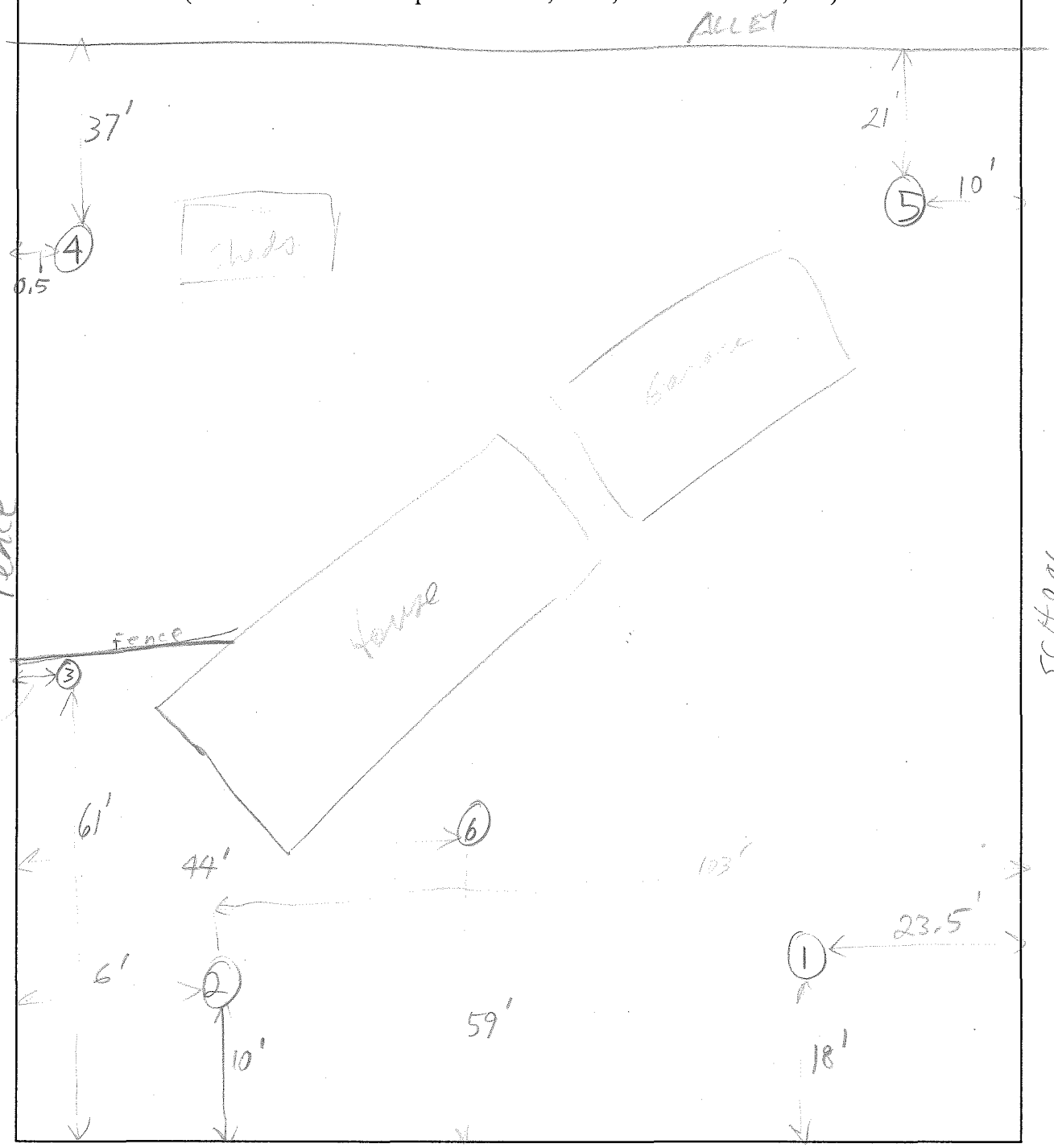


Residential Yard XRF Sampling Form

1st

Cherryvale Residential Yard Sampling Form	
Resident Name:	Resident Address: 529 W 1st

Sketch of Site (indicate XRF/lab sample locations, scale, direction arrow, etc.):

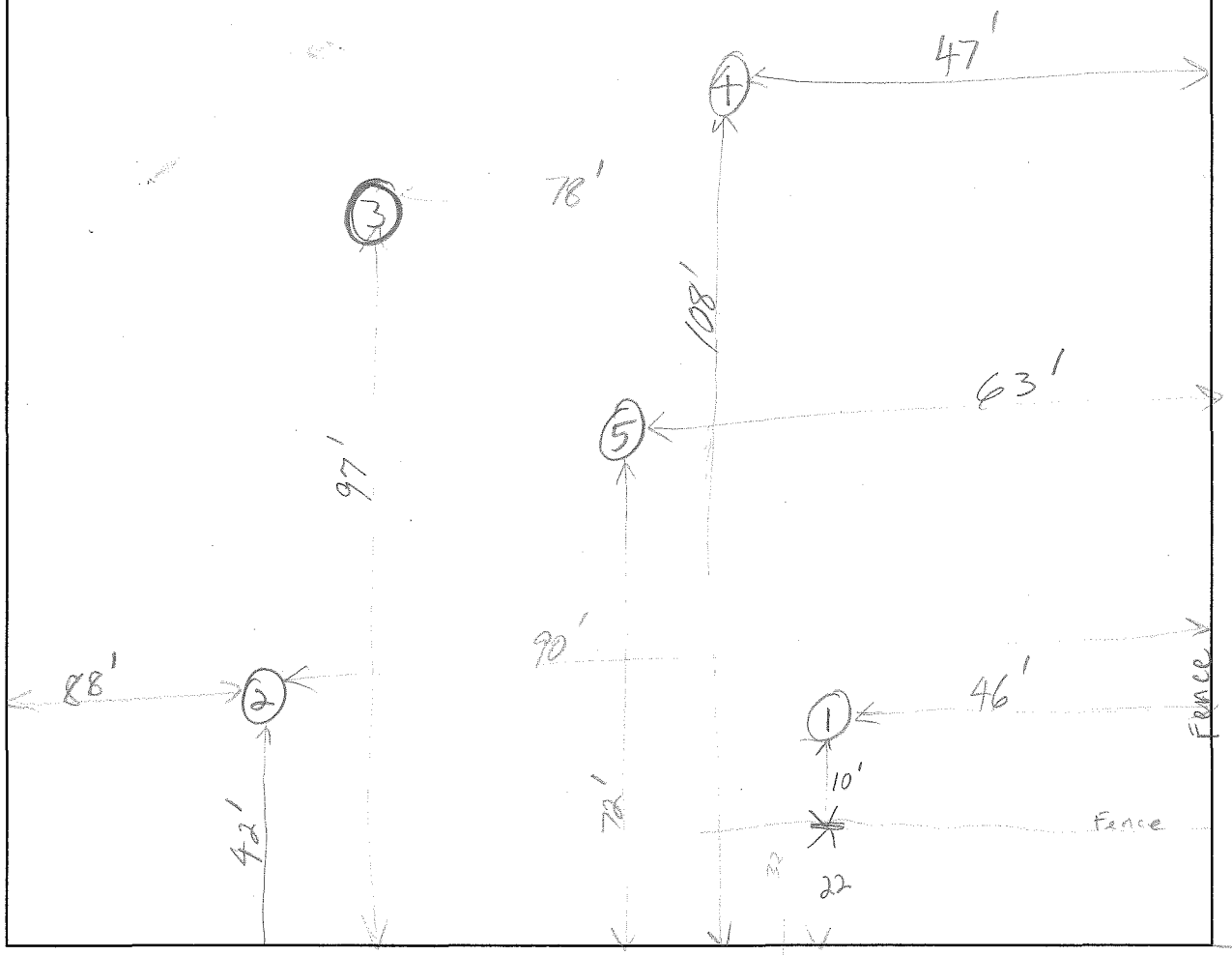


Residential Yard XRF Sampling Form

FIRST

Cherryvale Residential Yard Sampling Form	
Resident Name:	Resident Address: 532 W. 1st

Sketch of Site (indicate XRF/lab sample locations, scale, direction arrow, etc.):



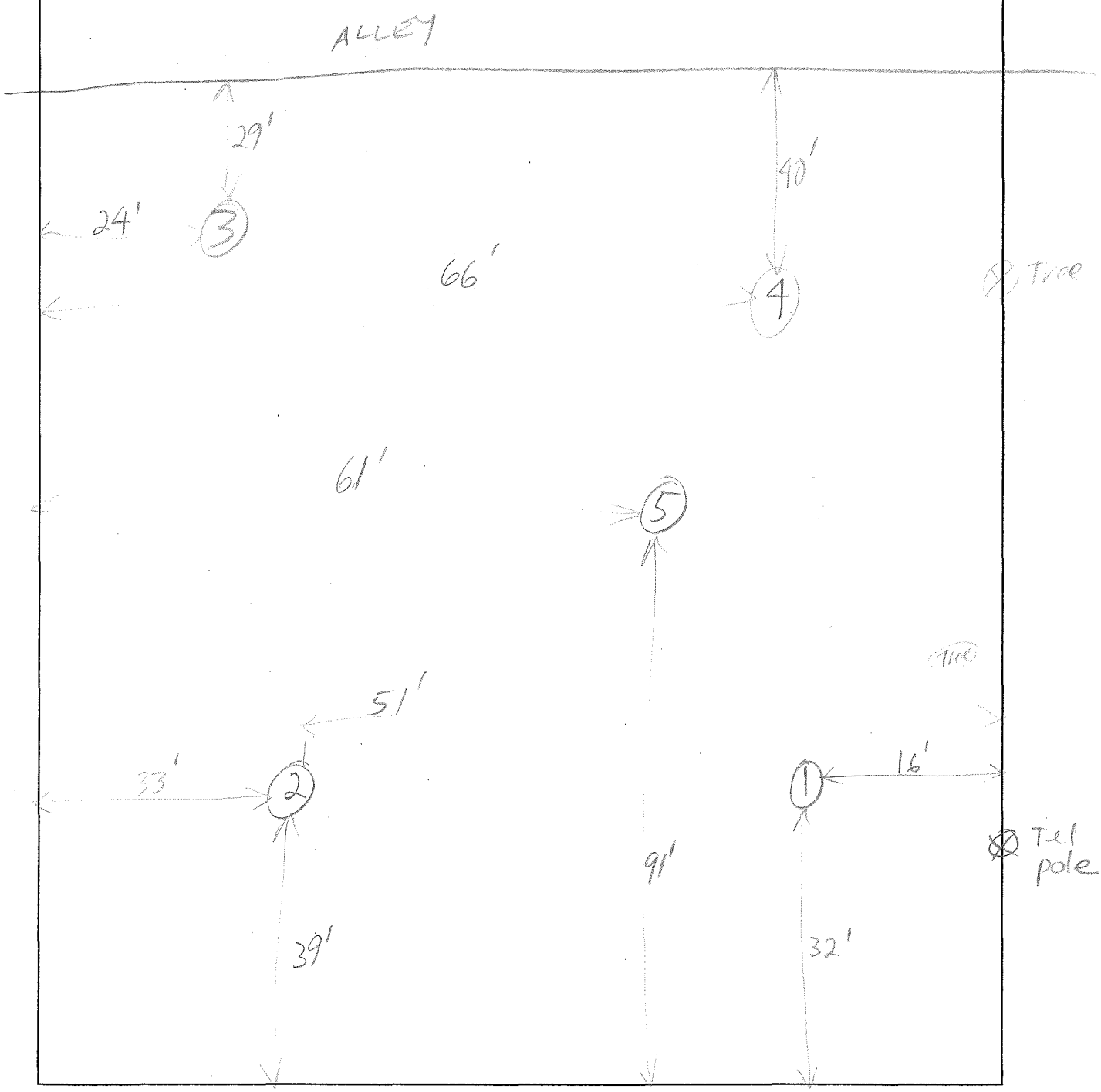
Residential Yard XRF Sampling Form

NOT TO SCALE!

Cherryvale Residential Yard Sampling Form

Resident Name:	Resident Address: 603 W 1st Empty Lot 1st + School

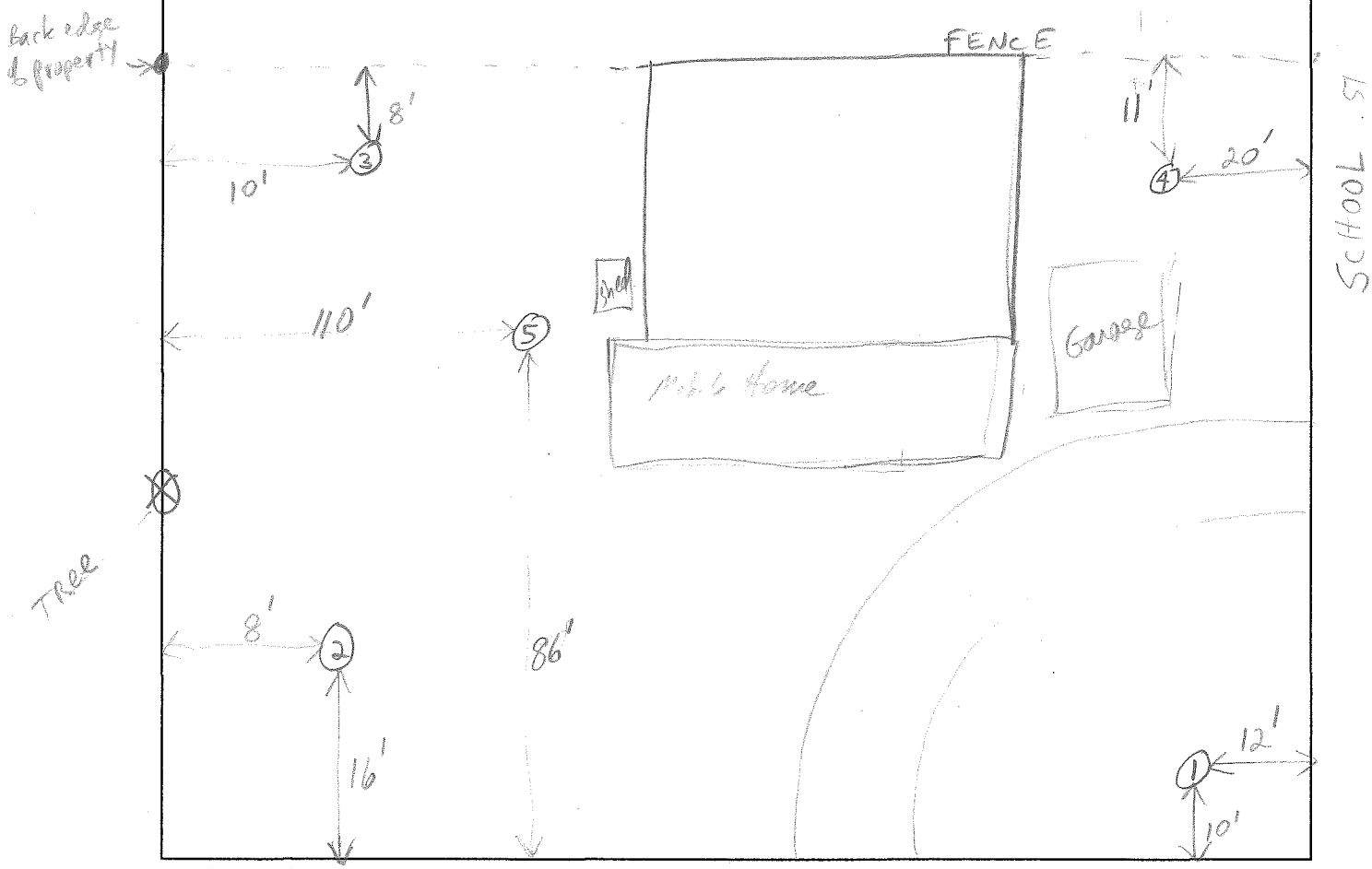
Sketch of Site (indicate XRF/lab sample locations, scale, direction arrow, etc.):



Residential Yard XRF Sampling Form

Cherryvale Residential Yard Sampling Form	
Resident Name:	Resident Address: 606 W. 1 ST

Sketch of Site (indicate XRF/lab sample locations, scale, direction arrow, etc.):



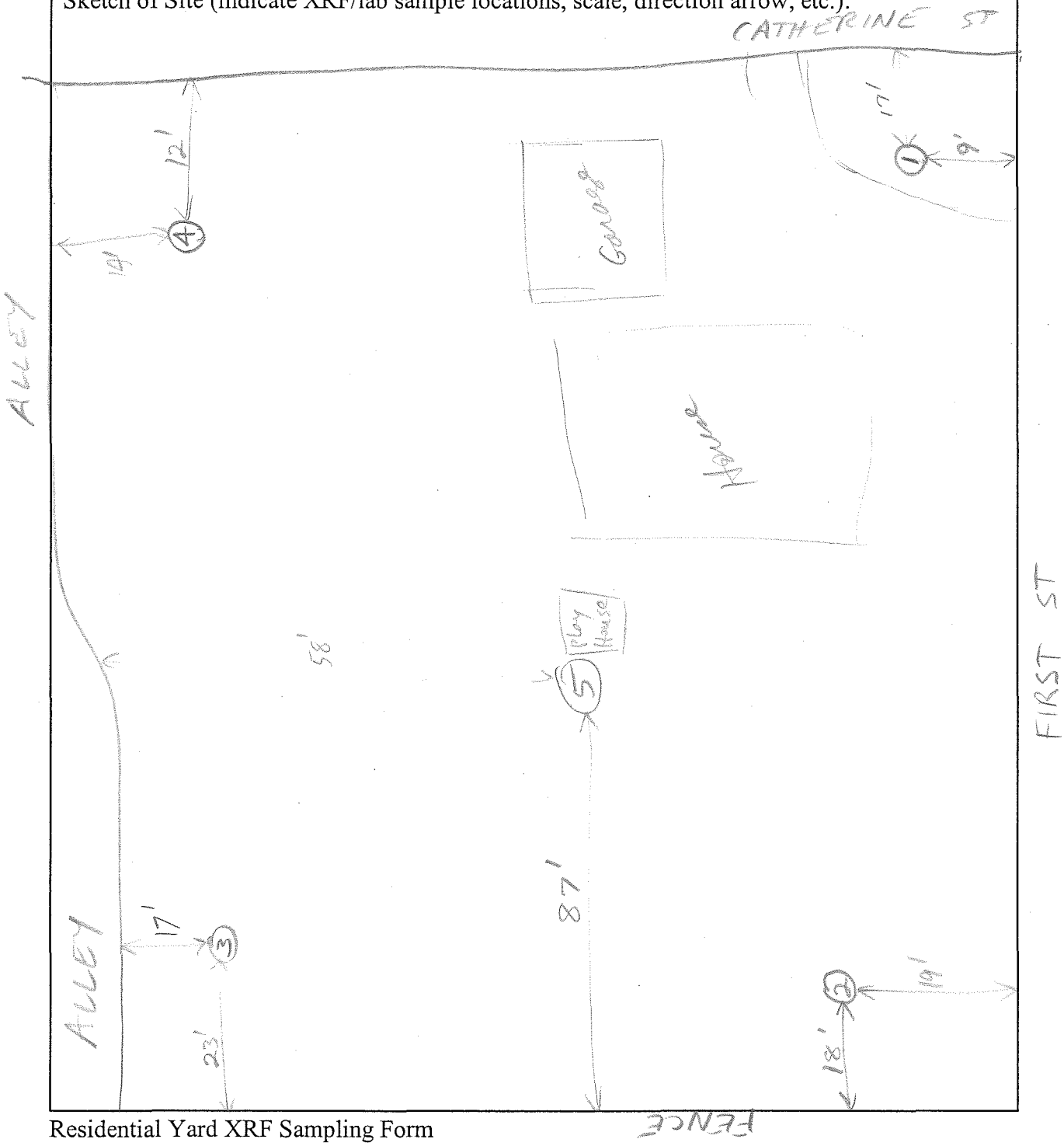
Residential Yard XRF Sampling Form

FIRST ST

300' of frontage

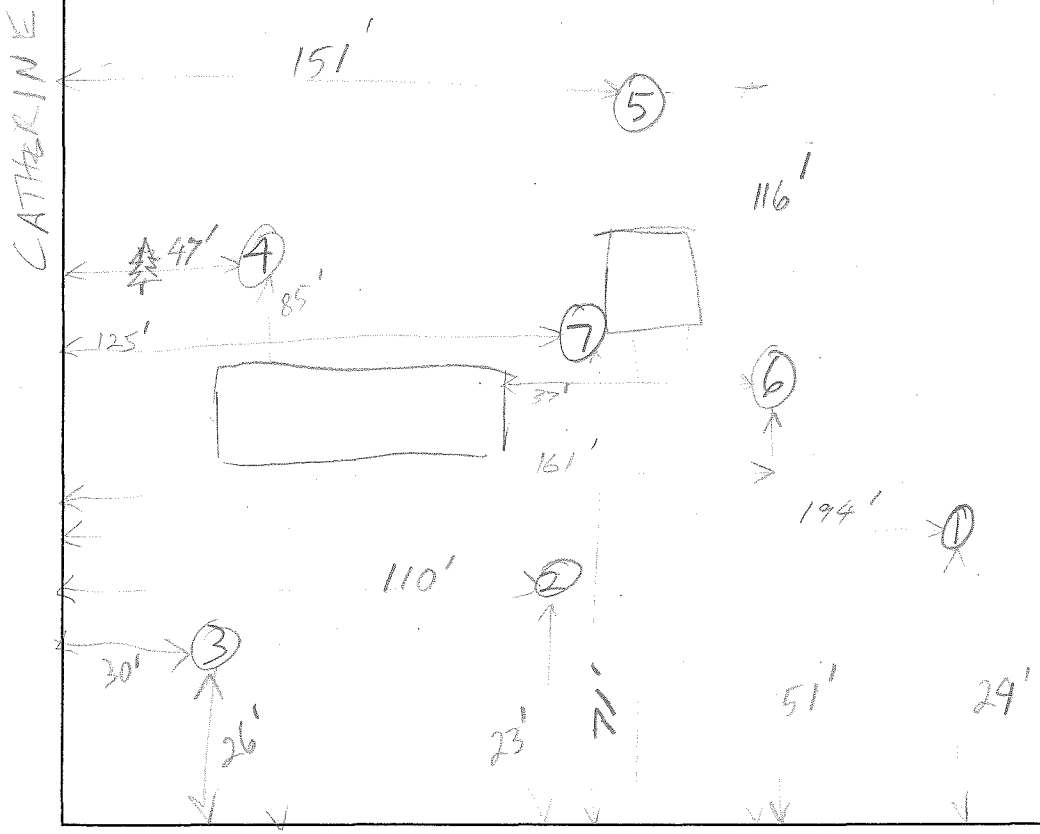
Cherryvale Residential Yard Sampling Form	
Resident Name:	Resident Address: 635 W. 15th

Sketch of Site (indicate XRF/lab sample locations, scale, direction arrow, etc.):



Cherryvale Residential Yard Sampling Form	
Resident Name:	Resident Address: 638 W. 1st

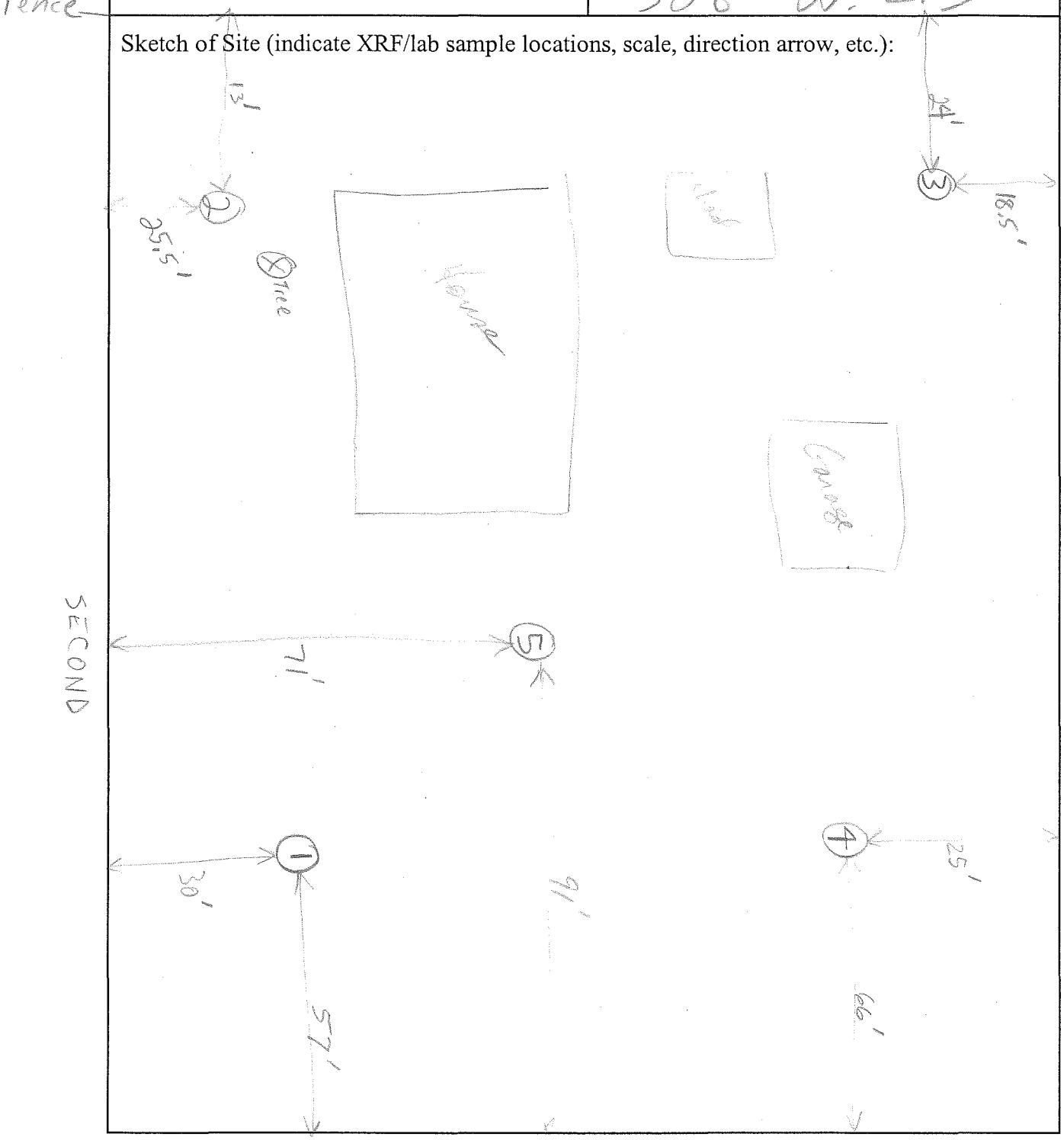
Sketch of Site (indicate XRF/lab sample locations, scale, direction arrow, etc.):



Residential Yard XRF Sampling Form

Cherryvale Residential Yard Sampling Form	
Resident Name:	Resident Address: 508 W. 2nd

Sketch of Site (indicate XRF/lab sample locations, scale, direction arrow, etc.):



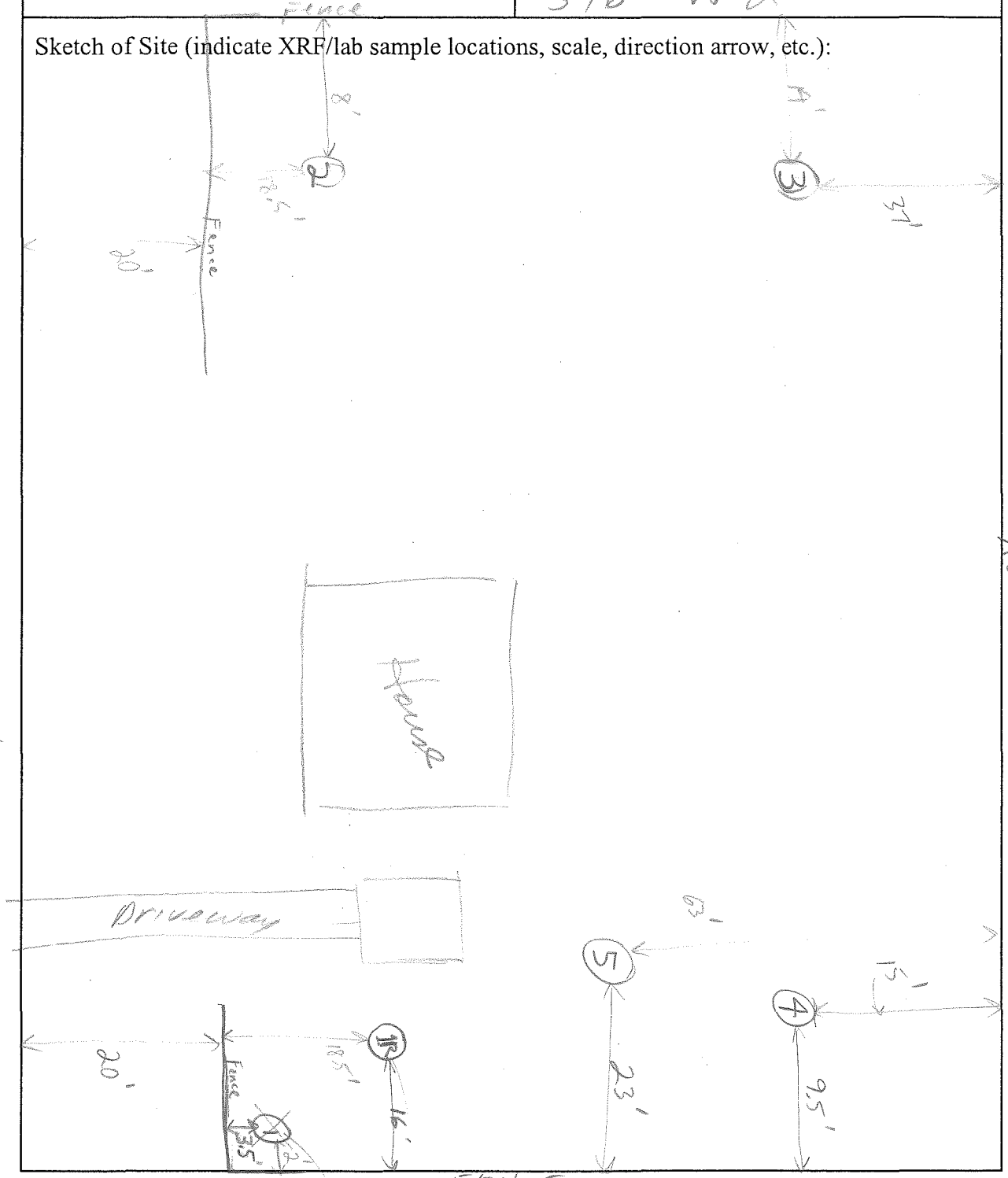
Residential Yard XRF Sampling Form

COYLE

N →

Cherryvale Residential Yard Sampling Form	
Resident Name:	Resident Address: 516 W 2nd

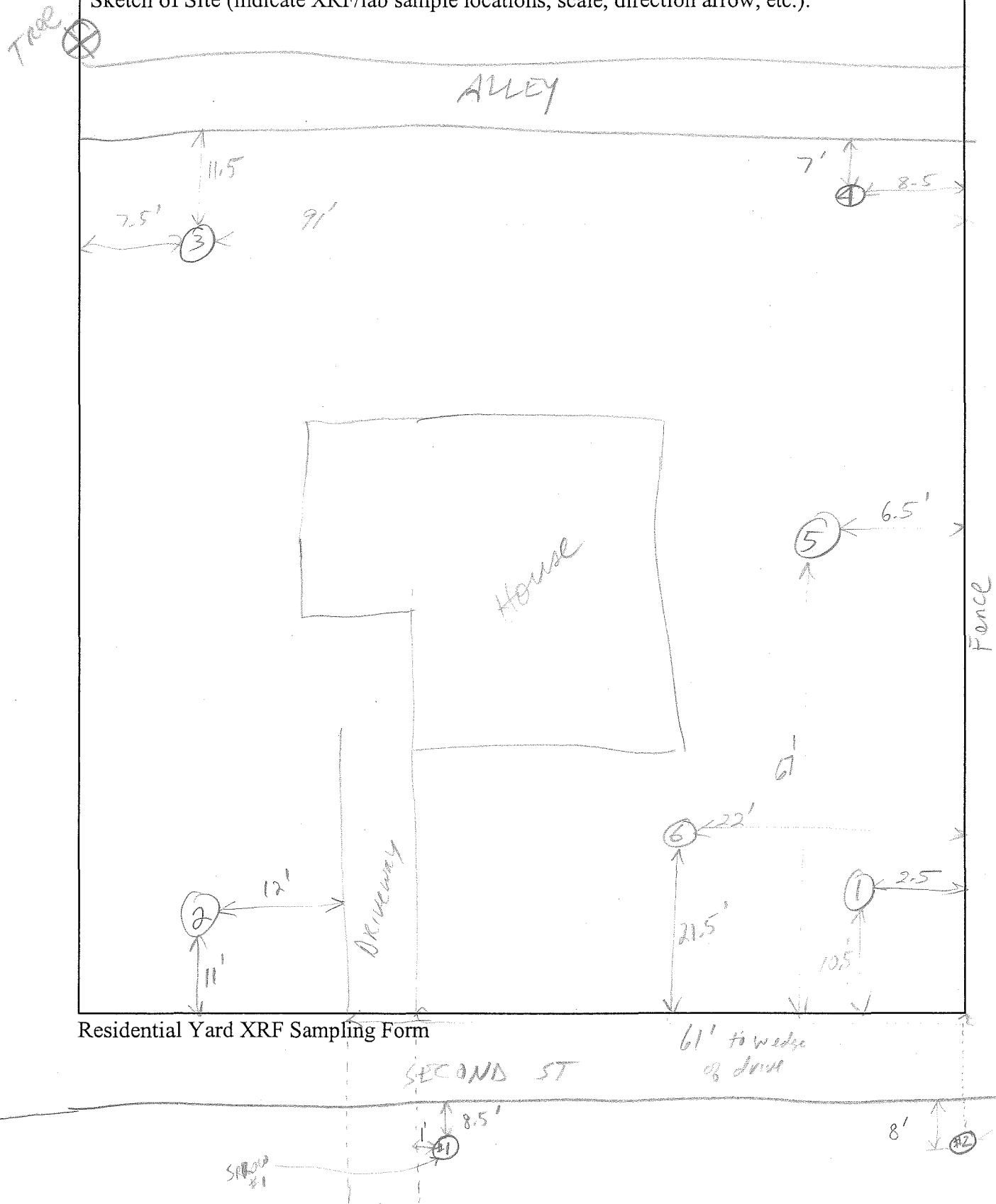
Sketch of Site (indicate XRF/lab sample locations, scale, direction arrow, etc.):



Cherryvale Residential Yard Sampling Form

Resident Name:	Resident Address: 524 W. 2nd	+ SRROW W2nd #1, #2

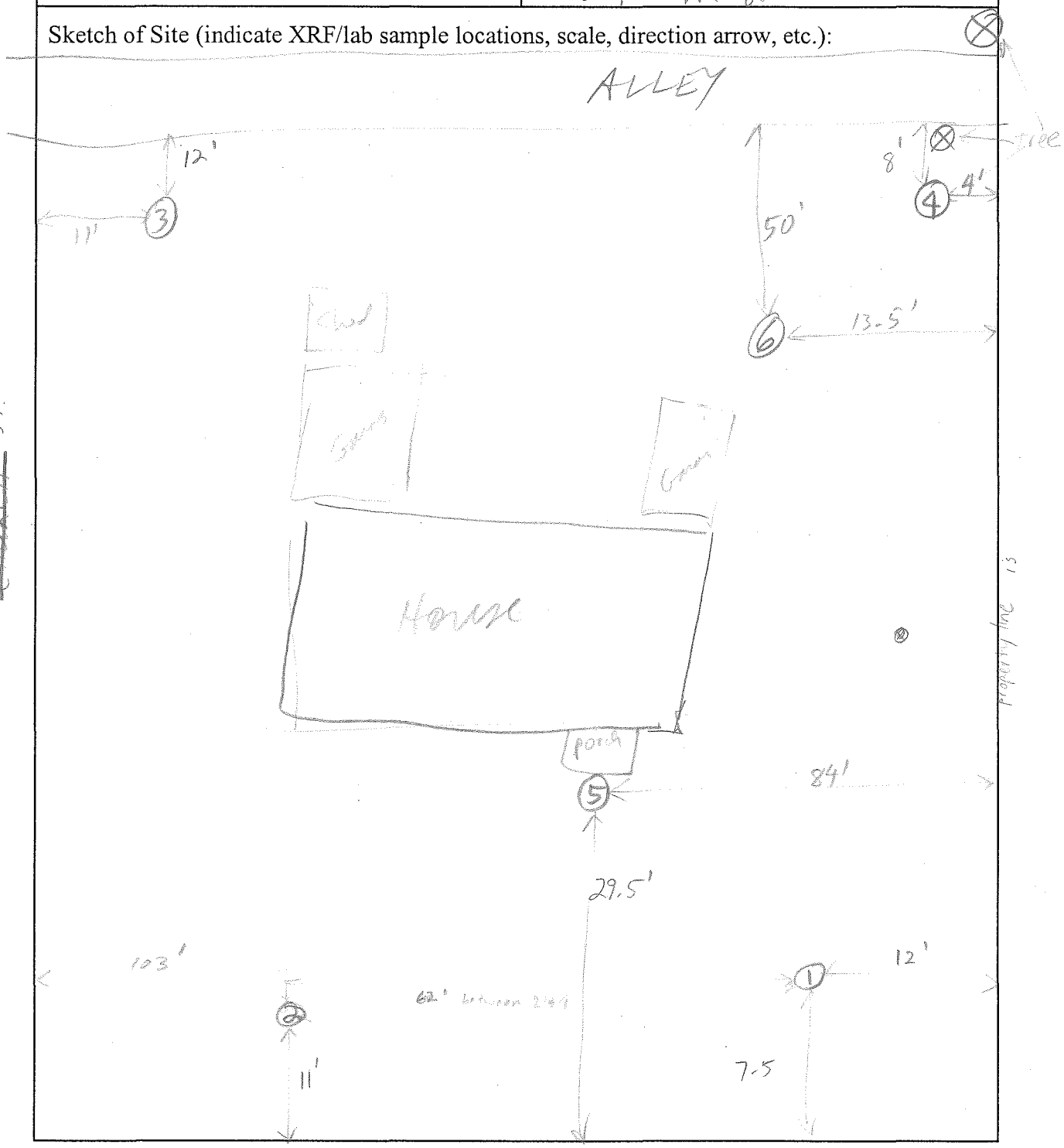
Sketch of Site (indicate XRF/lab sample locations, scale, direction arrow, etc.):



Residential Yard XRF Sampling Form

Cherryvale Residential Yard Sampling Form	
Resident Name:	Resident Address: 534 W. 2nd

Sketch of Site (indicate XRF/lab sample locations, scale, direction arrow, etc.):



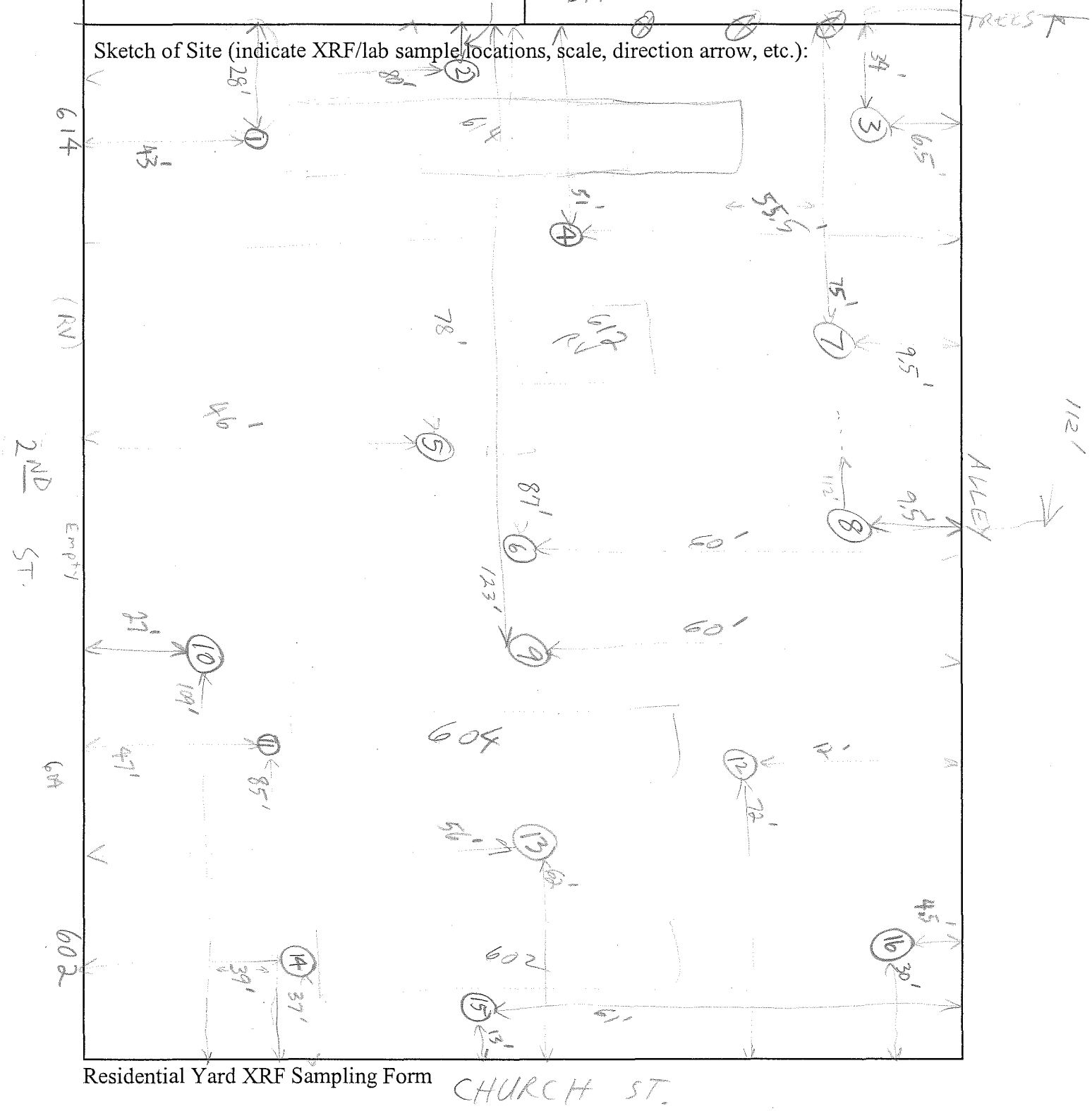
Residential Yard XRF Sampling Form

SECOND

Cherryvale Residential Yard Sampling Form

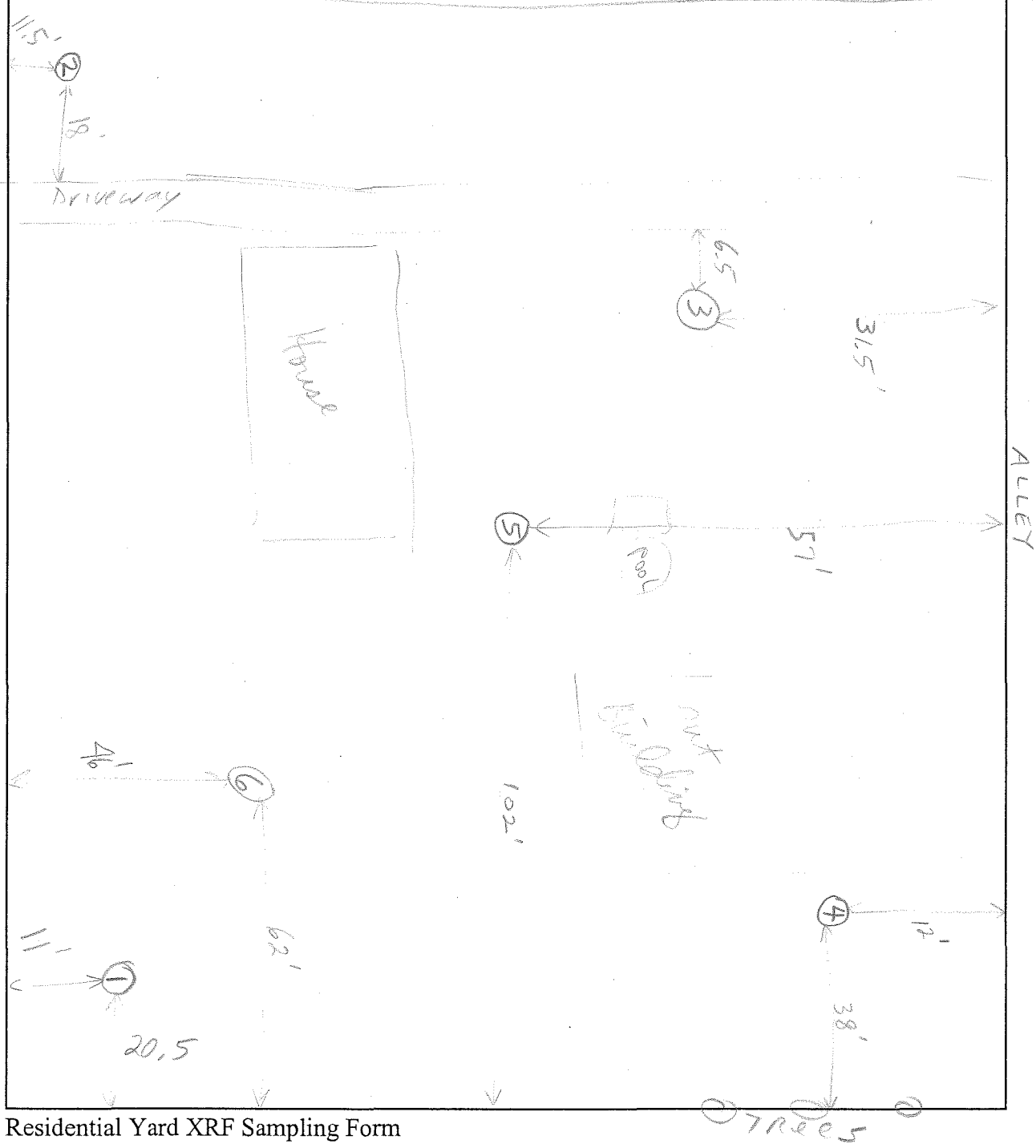
Resident Name:	Resident Address: TRAILER COURT 614 W 2ND to 602 W 2ND

Sketch of Site (indicate XRF/lab sample locations, scale, direction arrow, etc.):



Cherryvale Residential Yard Sampling Form	
Resident Name:	Resident Address: 630 W. 2nd

Sketch of Site (indicate XRF/lab sample locations, scale, direction arrow, etc.):

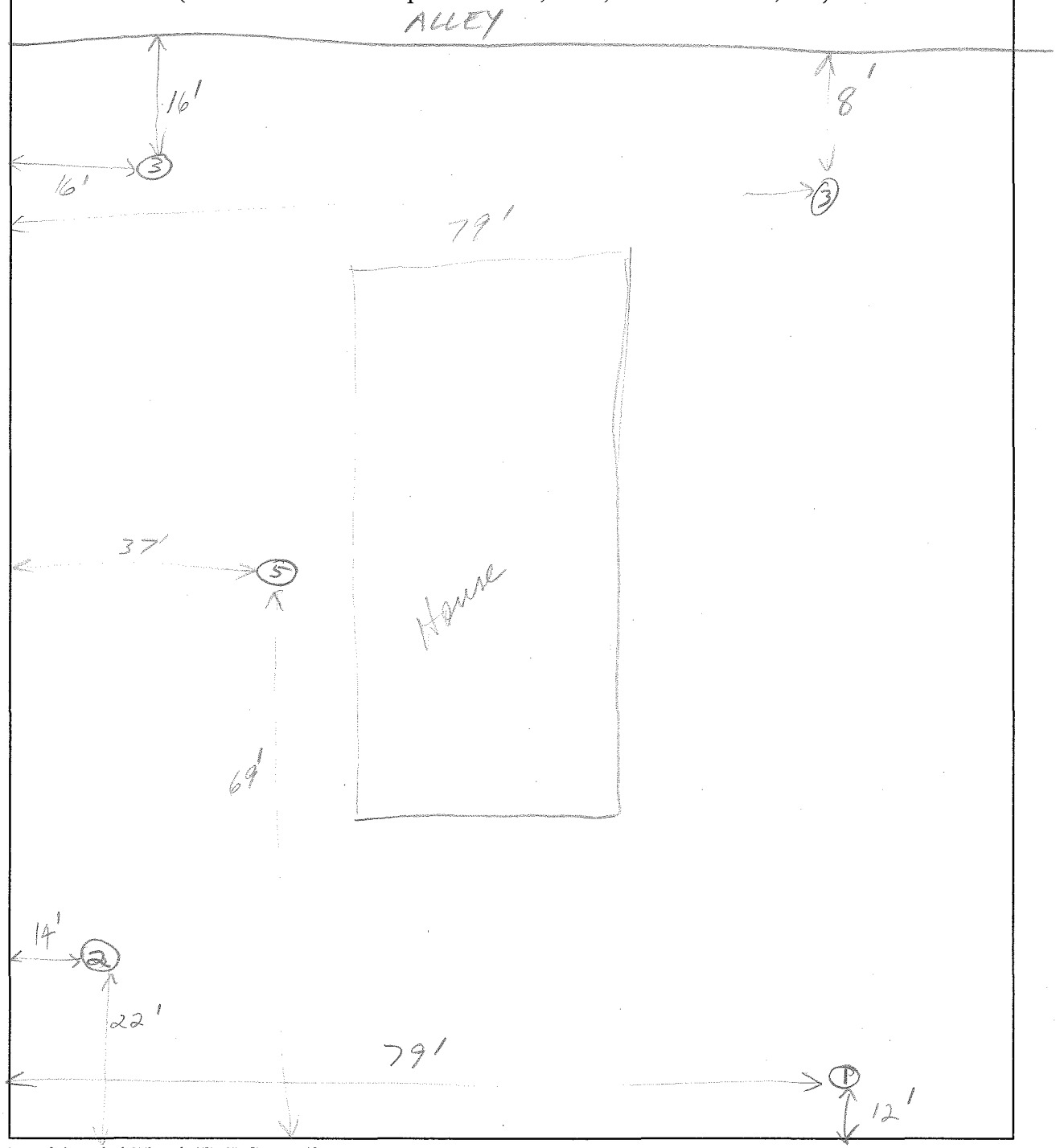


Residential Yard XRF Sampling Form

N →

Cherryvale Residential Yard Sampling Form	
Resident Name:	Resident Address: 640 W. 2nd

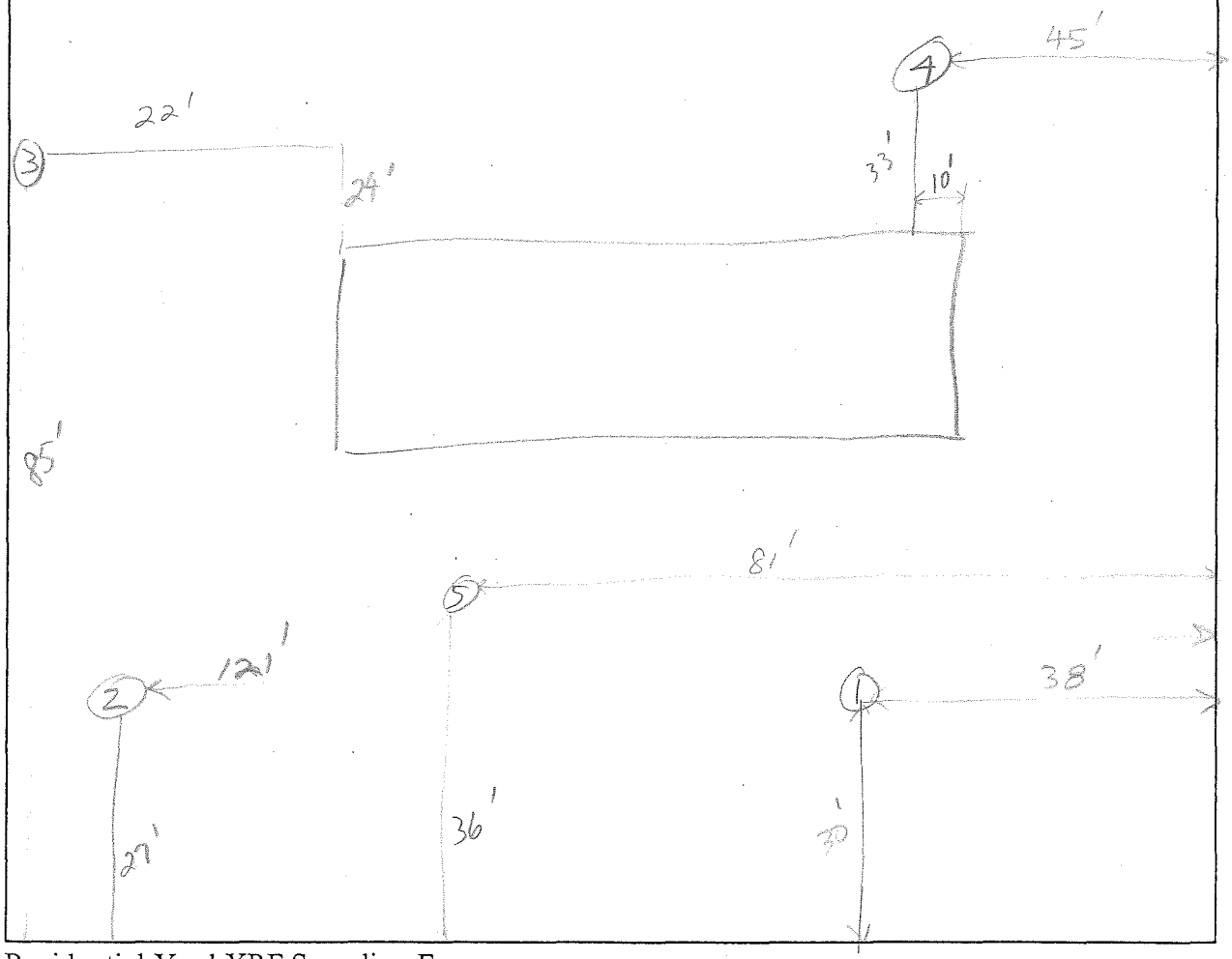
Sketch of Site (indicate XRF/lab sample locations, scale, direction arrow, etc.):



Residential Yard XRF Sampling Form

Cherryvale Residential Yard Sampling Form	
Resident Name:	Resident Address: 700 W. 2nd

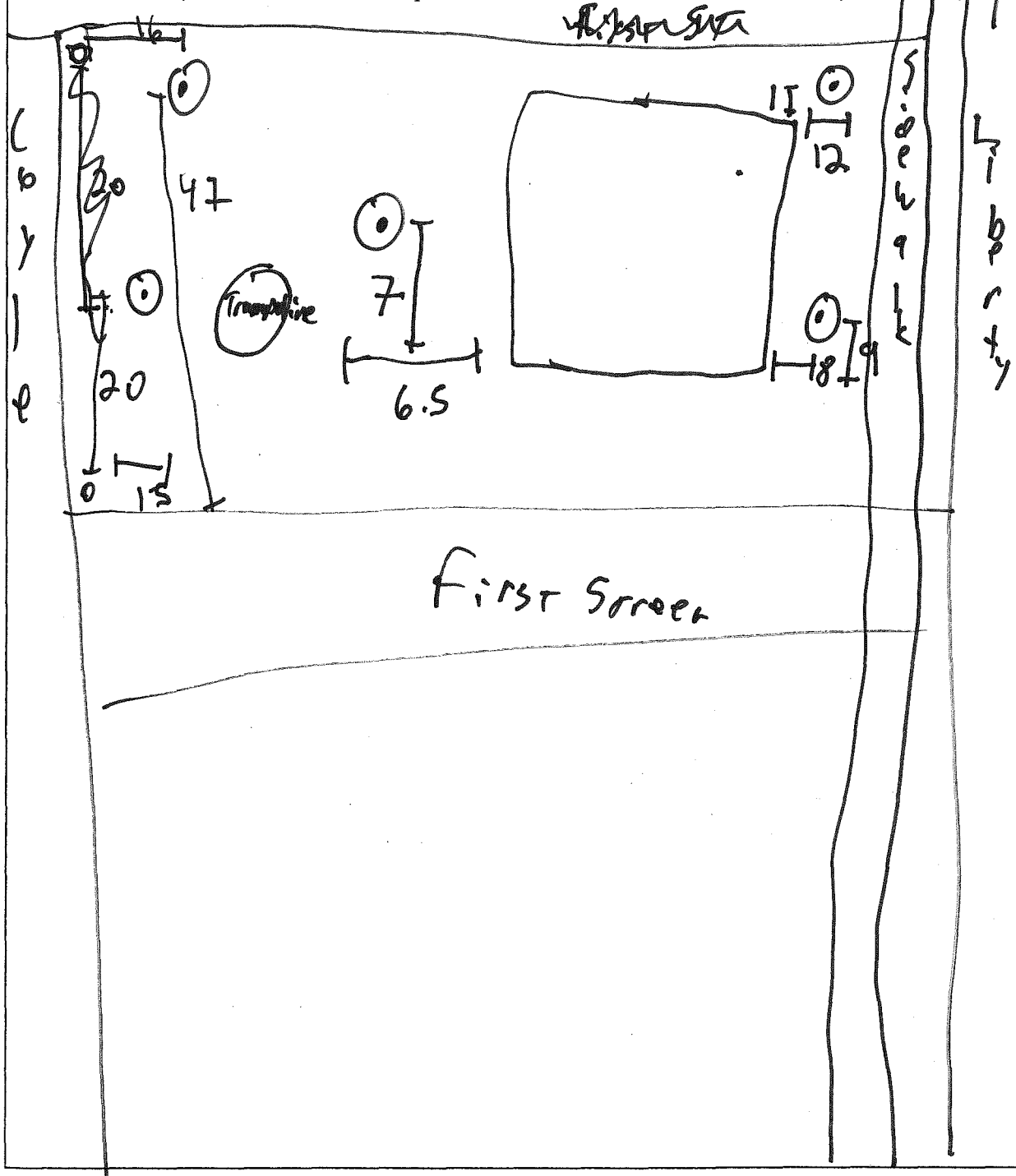
Sketch of Site (indicate XRF/lab sample locations, scale, direction arrow, etc.):



Cherryvale Residential Yard Sampling Form

Resident Name:	Resident Address: 400 N Liberty

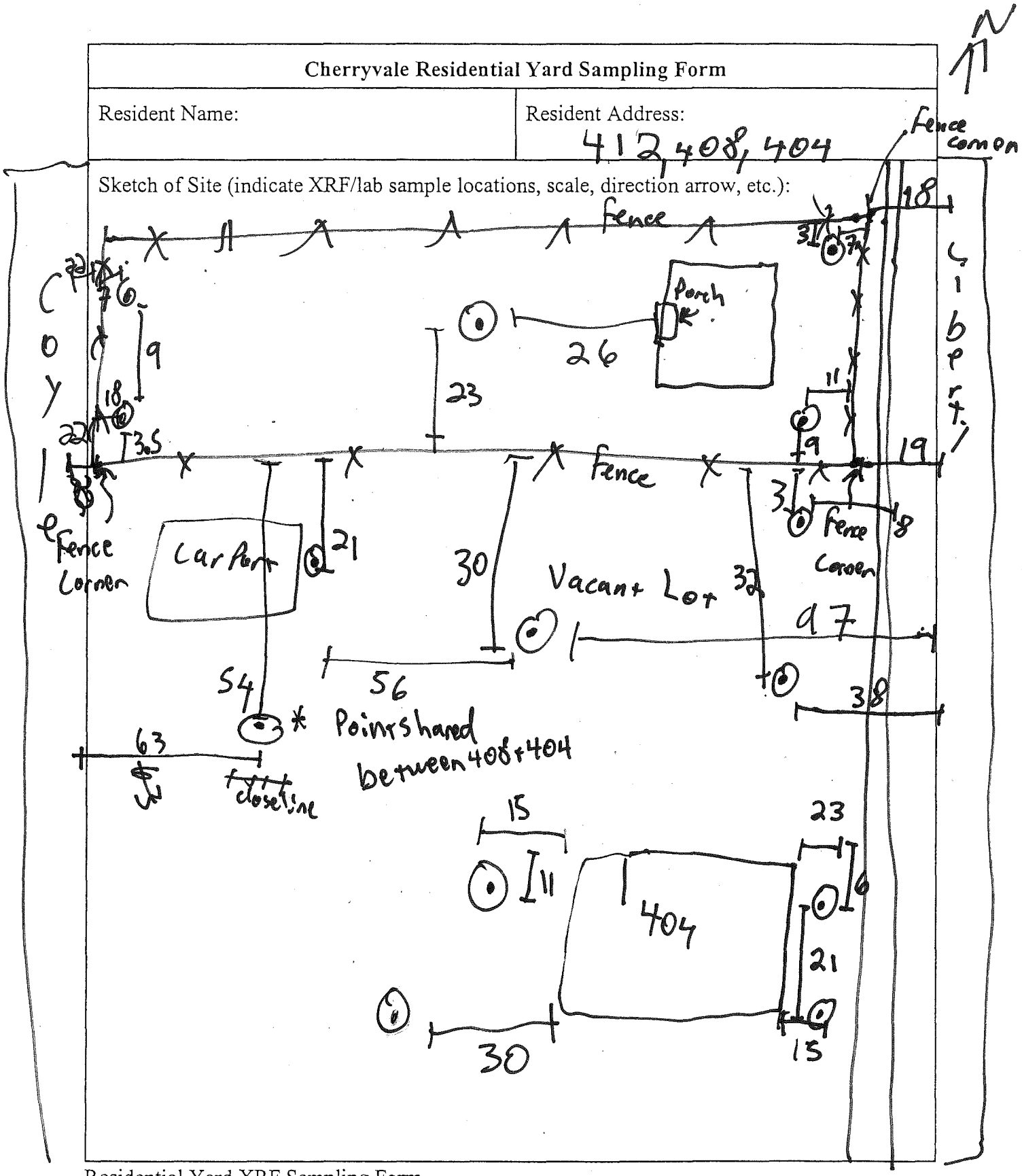
Sketch of Site (indicate XRF/lab sample locations, scale, direction arrow, etc.):



Cherryvale Residential Yard Sampling Form

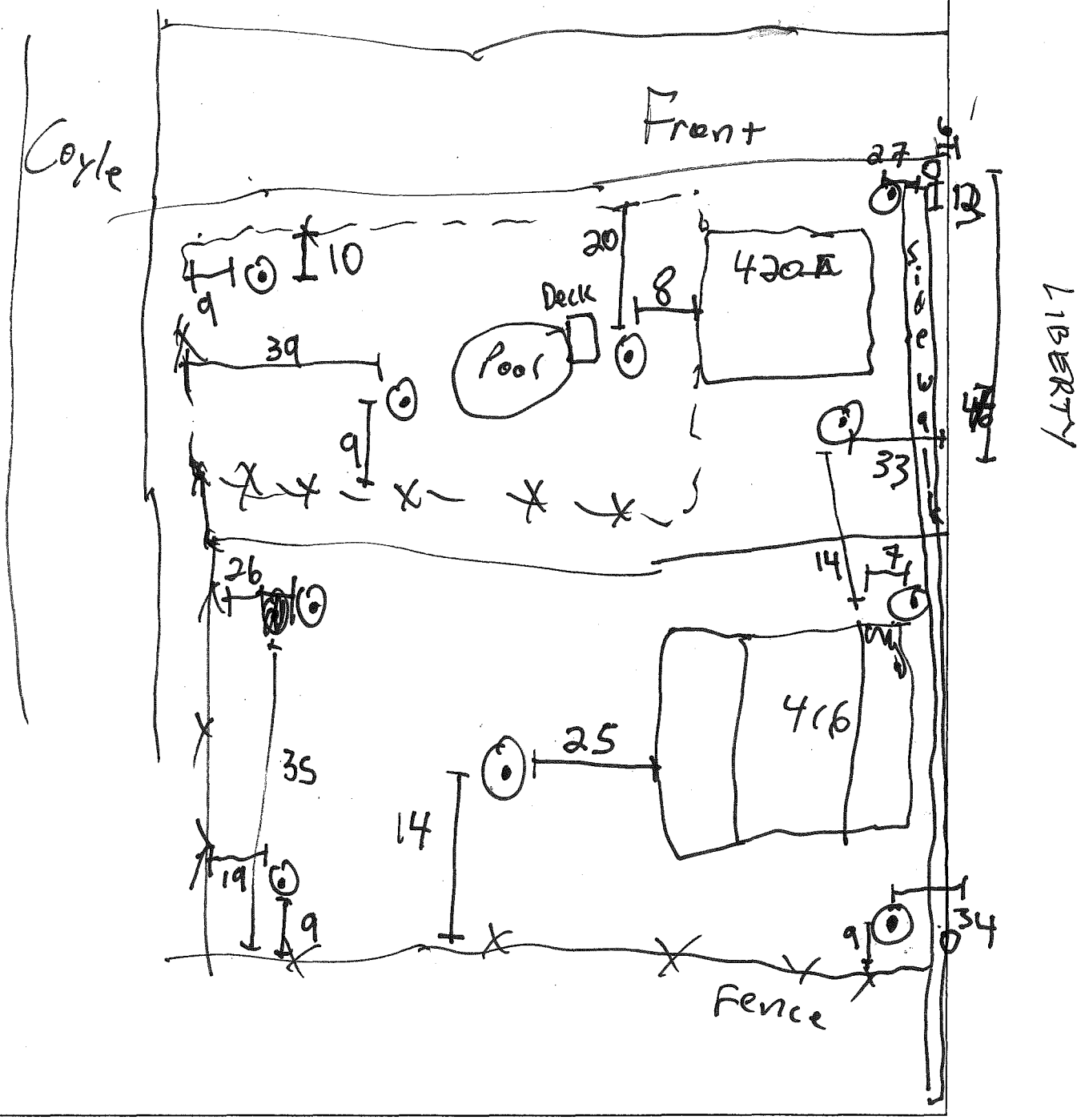
Resident Name:	Resident Address: 412, 408, 404

Sketch of Site (indicate XRF/lab sample locations, scale, direction arrow, etc.):



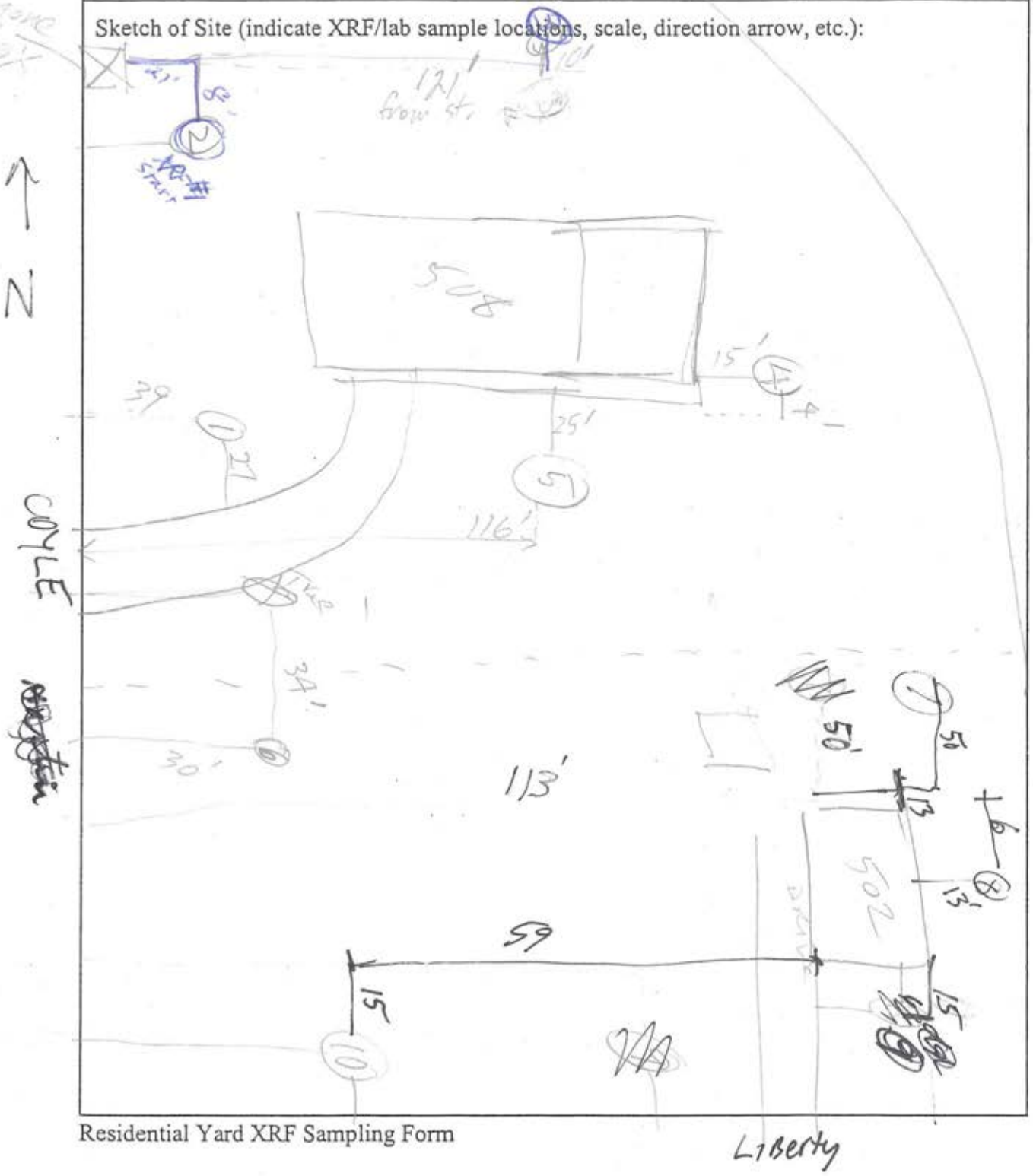
Cherryvale Residential Yard Sampling Form	
Resident Name:	Resident Address: 420 + 416 N Liberty

Sketch of Site (indicate XRF/lab sample locations, scale, direction arrow, etc.):



Cherryvale Residential Yard Sampling Form	
Resident Name:	Resident Address: 502 & 508 N Liberty

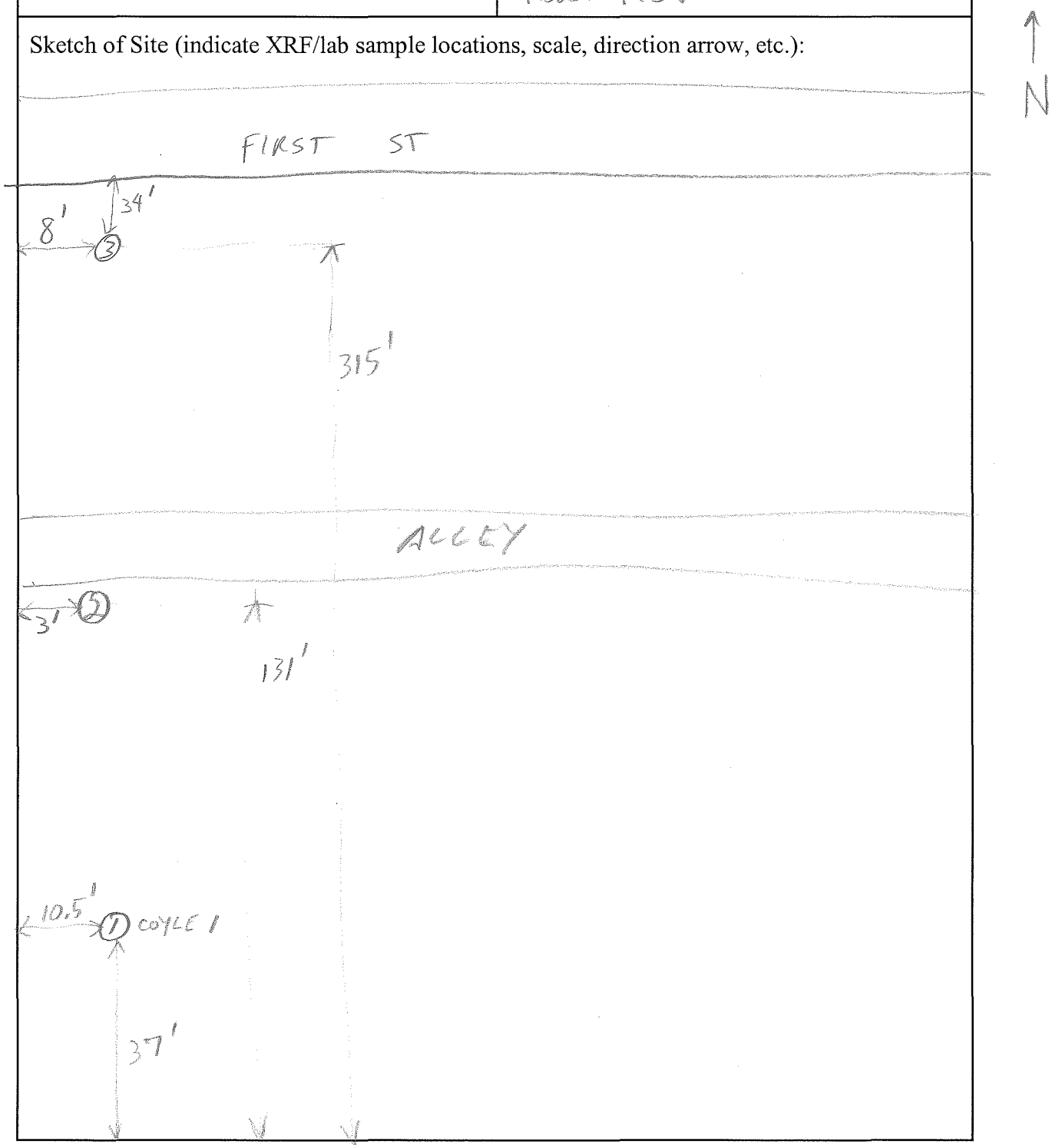
Sketch of Site (indicate XRF/lab sample locations, scale, direction arrow, etc.):



Cherryvale Residential Yard Sampling Form

~~Resident~~ sample Name: COYLE 1, COYLE 2, + COYLE 3	Resident Address: Road ROW

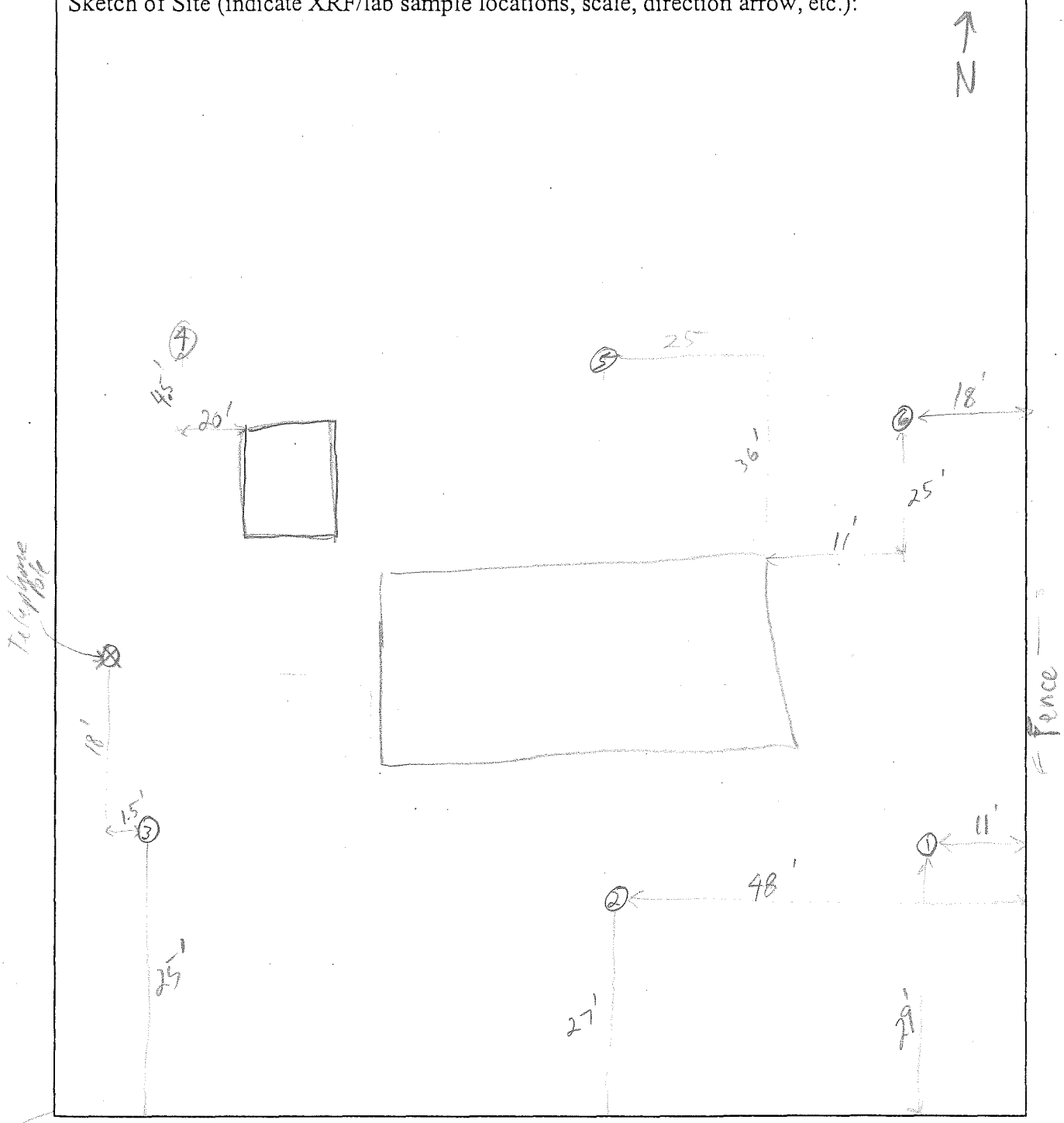
Sketch of Site (indicate XRF/lab sample locations, scale, direction arrow, etc.):



Residential Yard XRF Sampling Form

Cherryvale Residential Yard Sampling Form	
Resident Name:	Resident Address: 334 Front

Sketch of Site (indicate XRF/lab sample locations, scale, direction arrow, etc.):

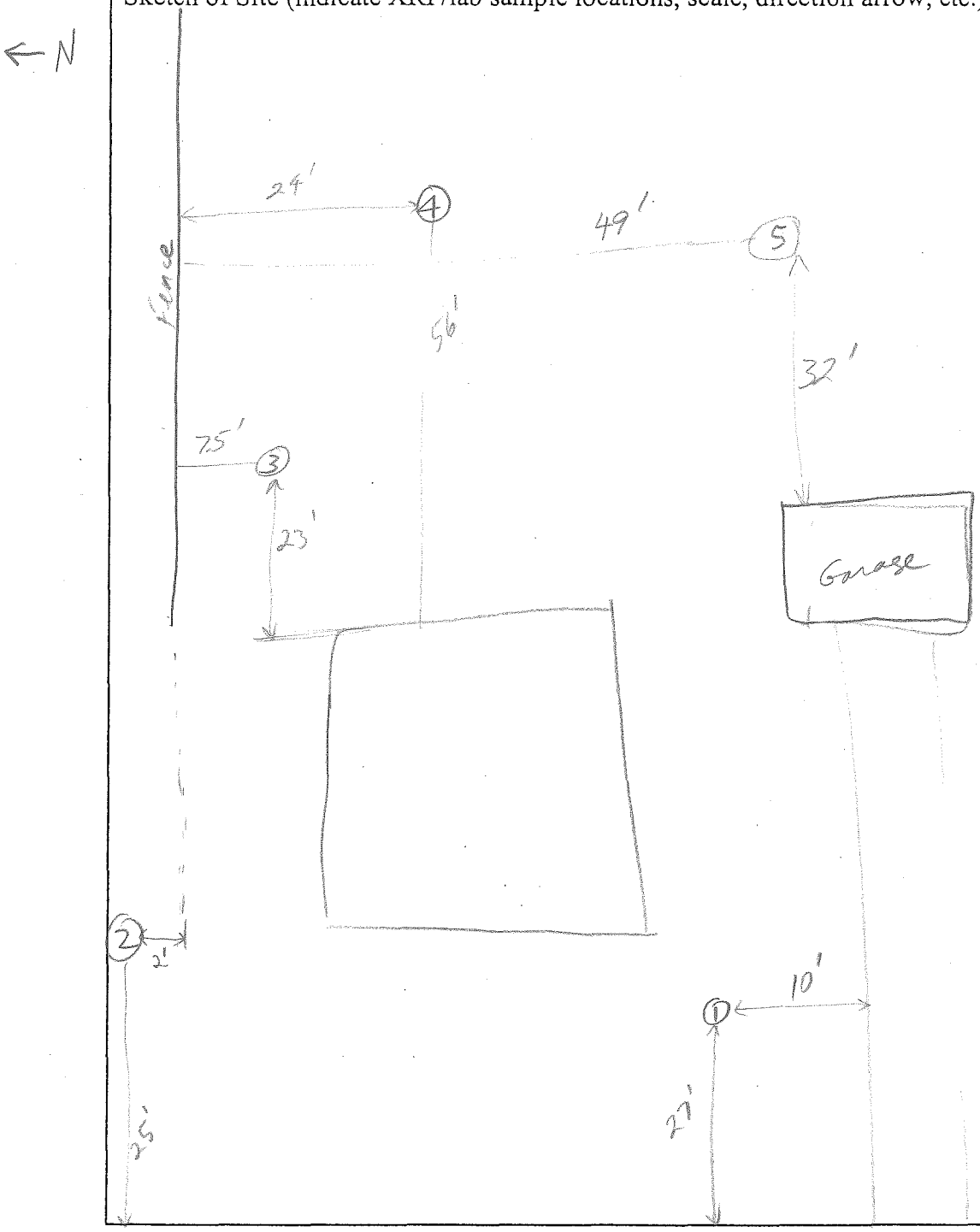


Residential Yard XRF Sampling Form

FRONT

Cherryvale Residential Yard Sampling Form	
Resident Name:	Resident Address: 425 Butler

Sketch of Site (indicate XRF/lab sample locations, scale, direction arrow, etc.):

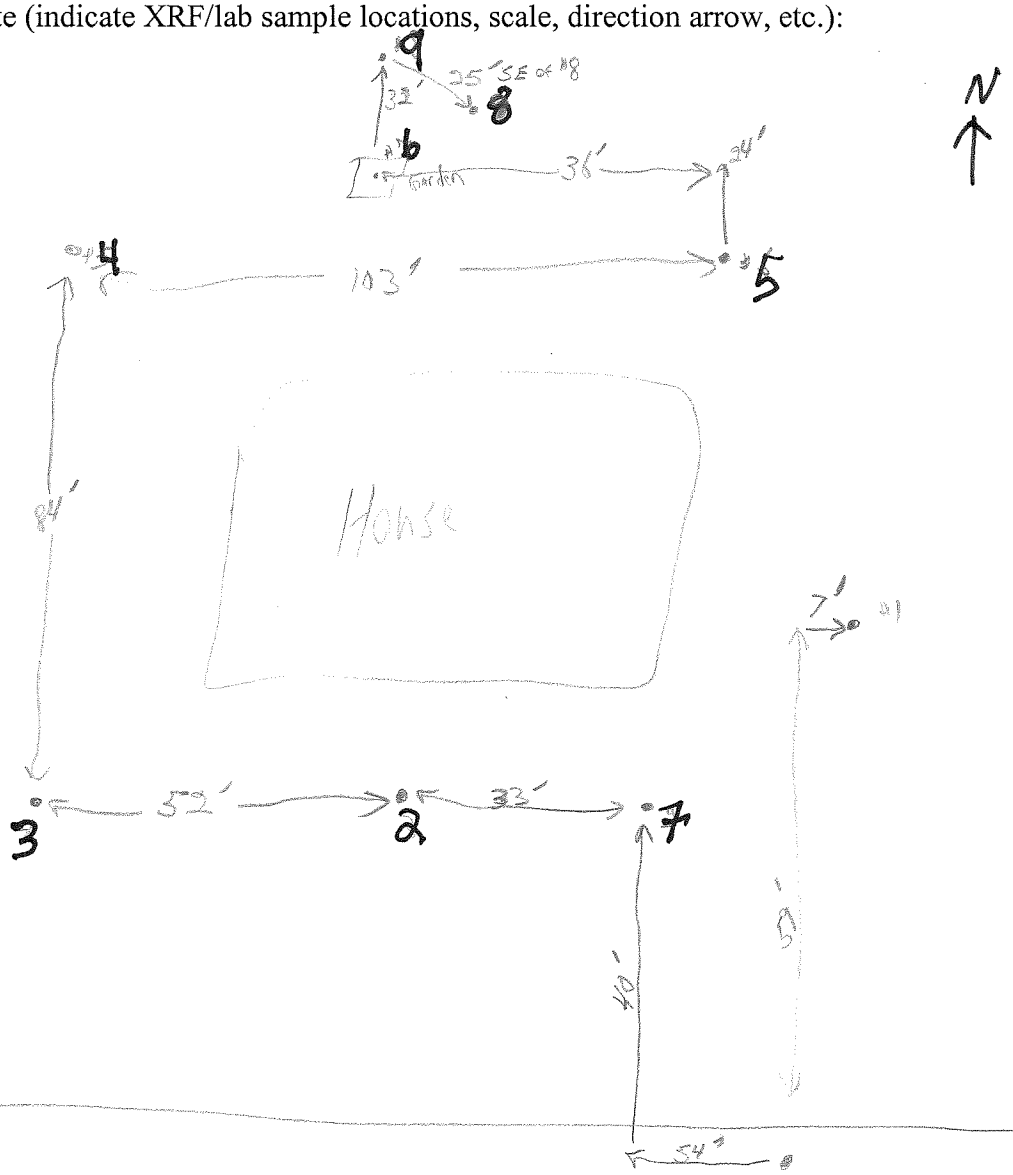


Residential Yard XRF Sampling Form

Butler

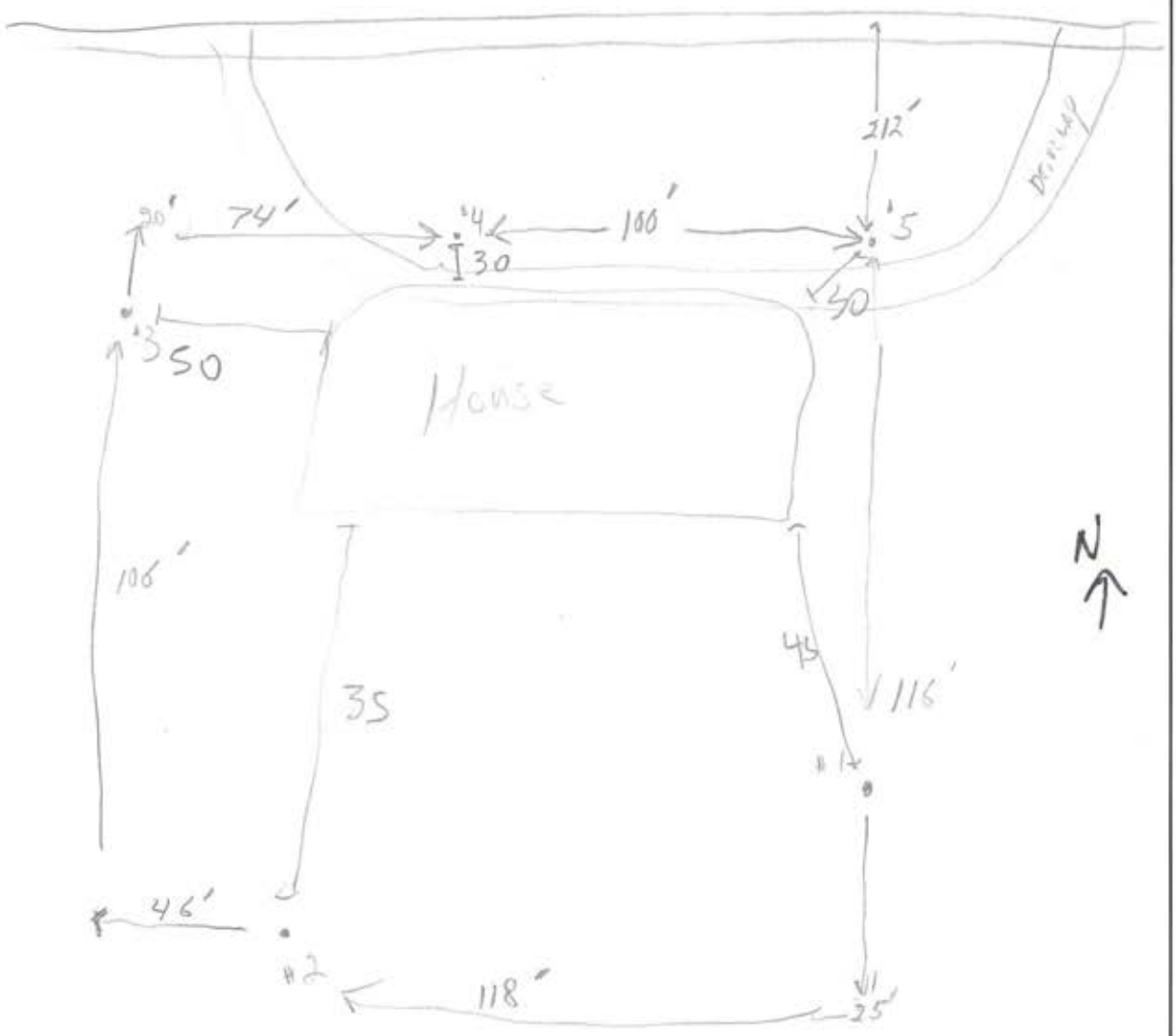
Cherryvale Residential Yards Site Sampling Form	
Resident Name: N	Resident Address: 5399 CO. RD. 505D

Sketch of Site (indicate XRF/lab sample locations, scale, direction arrow, etc.):



Cherryvale Residential Yards Site Sampling Form	
Resident Name:	Resident Address: 271-A

Sketch of Site (indicate XRF/lab sample locations, scale, direction arrow, etc.):



Residential Yard XRF Sampling Form