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LETTER OF TRANSMITTAL

TO: CRWQCB
5550 Skylane Blvd., Ste. A
Santa Rosa, CA 95403

ATTN: Kasey Ashley

DATE: April 22, 2005
JOB NO.: 5189.04
PROJECT: LOP No. 12735

TRANSMITTED BY: ☒ Mail ☐ Delivered In Person ☐ Fax

No. Copies		Description
1	1.	Metals Investigation Status Report
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REMARKS:

THIS MATERIAL SENT FOR: ☒ As Requested ☒ Information ☐ Approval ☐

cc: KD Investments
Steve Saltzman, Winzler & Kelly

By: Christine S. Manhart

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www.lacoassociates.us

METALS INVESTIGATION STATUS REPORT

KD Investments - Former Roger's Garage
1622 Old Arcata Road, Arcata, California

LOP No. 12735

Prepared for:
KD Investments
5251 Ericson Way, Suite A
Arcata, California 95521

for
Gwen Erickson, Staff Geologist

Christine S. Manhart, P.G. 7576, Exp. 8/31/07

PROFESSIONAL GEOLOGIST
CHRISTINE SHIVELLE MANHART
No. 7576
Exp. 08/31/
STATE OF CALIFORNIA

LACO ASSOCIATES
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April 22, 2005
Project No. 5189.04

METALS INVESTIGATION STATUS REPORT
KD Investments / Former Roger's Garage
1622 Old Arcata Road, Arcata, California
LOP No. 12735; LACO Project No. 5189.04

EXECUTIVE SUMMARY

The referenced site is located in a residential area of Arcata. Jacoby Creek Elementary School is located across the street from the subject property (Figure 1). The site historically has been used as a full service garage with fueling and maintenance operations; vehicle salvaging and crushing; auto body painting; and the storage of materials associated with these operations. Investigations by both MFG, Inc. and SHN indicate two primary areas of shallow contamination have historically existed at: 1) the underground storage tank (UST) area on the west end of the property and 2) the salvage yard, including the car crusher area, located on the east end of the site. A letter from the Humboldt County Division of Environmental Health (HCDEH), dated March 25, 2005, confirmed corrective action for the UST portion of the site is complete and no further action related to the petroleum release at the site is required. However, contaminants of concern are suspected to remain in the salvage yard area of the site.

The purpose of this investigation was to delineate the extent of shallow soil contaminated by heavy metals in the salvage yard area of the site. To most adequately assess the approximately 2 acre salvage yard area, an approximately 20 by 20-foot grid spacing was used for location locations. A total of 108 locations were sampled and approximately 216 total soil samples were analyzed for 24 metals using a portable NITON x-ray fluorescence (XRF) machine. The subsurface investigation to date has revealed: 1) elevated metals, in particular copper, lead, and zinc concentrations, appear to be mostly within the upper foot of soil across the site; 2) laboratory results of 11 samples suggest elevated chromium and cadmium concentrations may exist across the site, as well; and 3) metals impacted soils do not typically extend below a depth of 1.5 feet. Based on results from this investigation, LACO ASSOCIATES (LACO) recommends that the upper foot of site soils, with exception to the southeast upper slope, be removed from the site.

INTRODUCTION

We understand proposed development of the site includes construction of a Montessori school. Based on review of the proposed site plan provided by Kash Boodjeh and dated January 25, 2005, it appears that a majority of the school will be covered with asphalt and concrete. However, the 3,660 square feet playground is proposed within the salvage yard area. A soil

quality evaluation was performed on February 23 and 24, 2005, to delineate metals in shallow soils across the salvage yard area.

This status report contains the details of location installation, sampling methodologies, soil NITON XRF processing and laboratory results, discussion of findings, and recommendations pertaining to the proposed development at the site.

INVESTIGATION METHODS

Subsurface Investigation

To assess shallow soil for metals, LACO collected soil samples from several locations to a depth of approximately 4 feet. Sample points were located across the approximately 2-acre salvage yard area in a 20 by 20 foot grid pattern resulting in 108 sampling points. Sampling points were identified in the field with a alpha-numeric name beginning with the letter S in the northern portion of the site to the letter Z in the southern portion. Sampling locations and their alpha-numeric identifier are presented on Figure 2.

Soil Sample Collection and Analysis

LACO accessed sampling points using a direct push rig, equipped with 4 foot long acetate sampling liners. Two 6-inch soil samples were collected from each sampling point. The first was collected from the topsoil fill soil at a depth of approximately 0.5 to 1 foot. The second sample was consistently collected from the bottom of the liner typically in native soil; the depth of the second sample depended on how full the 4-foot liner was. For example, if the liner was only 3-feet full of soil than the 6-inch bottom sample was collected and labeled 2.5 to 3 feet. The 4- foot soil liners were not always full due to either: 1) compaction of upper soil during driving of the rods; or 2) a syringe effect resulting in sample loss from the bottom while pulling rods out. All soil sample depths are listed in Table 2. Soil samples were collected directly in acetate liners, labeled with a unique identification, the ends capped and brought back to LACO for further processing.

On March 25, 2005, four samples were additionally collected from off-site to help establish background metals concentrations in the area. Bulk soil samples were collected using a hand auger equipped with a 3-inch mud bucket. Samples were collected from a depth of approximately 0.5 to 1 foot in all locations. Two locations, JCS-S and JCS-N, were located on the Jacoby Creek Elementary School property on the south and north ends, respectively. A third

location, TCP, was advanced at the residence of Mr. Terry Clark, located south of Roger's Garage and the fourth location, GCR, was advanced on the side of the road along Golf Coarse Road. Samples were collected directly into plastic bags, labeled and brought back to LACO for further processing.

All soil samples were prepared by LACO for bulk XRF analysis per recommendations provided by the XRF manufacturer, NITON. The sample preparation protocol was consistently followed so that select soil samples (approximately 5 percent of total) could be further analyzed by a state certified laboratory. A copy of the NITON recommended sample preparation is included as Attachment 1.

On March 22 and 23, 2005, soil samples were analyzed using a portable NITON Model XLi723W Serial 6355 XRF environmental analyzer. The XLi723W failed working on March 23 and on March 28, 2005. Remaining samples were analyzed using a portable NITON Model XLi723 Serial 5663 XRF environmental analyzer. Both XRFs used a dual cadmium and americium source for internal analysis. All soil samples were analyzed for the following 24 metals:

- Antimony
- Arsenic
- Barium
- Cadmium
- Cesium
- Chromium
- Cobalt
- Copper
- Iron
- Lanthanum
- Lead
- Manganese
- Mercury
- Molybdenum
- Nickel
- Palladium
- Rubidium
- Selenium
- Silver
- Strontium
- Tellurium
- Tin
- Zinc
- Zirconium

All XRF samples were analyzed a minimum of two times to verify results. If anomalous data was observed, a third analysis was completed. Each point ran for a minimum of 10 seconds per source, for a total 20 second analysis. Subsequent retests of especially anomalous or inconsistent results were additionally run for a minimum of 30 seconds per source.

To compare the accuracy of results provided by the portable XRF, a total of 11 soil samples, approximately 5 percent of the approximately 216 soil samples, were submitted to a state certified laboratory for additional analysis. The eleven samples were S13, T7, U9, W2, W10, X6, Y8, Y10 from 0.5 to 1.0 foot, and U5, W10, and Z2 from 3.5 to 4.0 feet. Samples were submitted under standard chain-of-custody procedure for analysis of CAM 17 metals per EPA 200.7/200.9 which include:

- Antimony
- Arsenic
- Barium
- Beryllium
- Cadmium
- Chromium
- Cobalt
- Copper
- Lead
- Mercury
- Molybdenum
- Nickel
- Selenium
- Silver
- Thallium
- Vanadium
- Zinc

Site soils

LACO observed fill soils to be typically 1 to 2 feet thick, consisting of aggregate base mixed with topsoil in the western portion of the salvage yard. Soil in the eastern portion of the site consisted typically of disturbed topsoil to a depth of approximately 1.5 feet. Below topsoil fill, LACO observed dark yellowish brown with gray, firm to stiff clayey silts and silty clays to the bottom of the locations. Groundwater seeps were observed in the vicinity of locations X6 to Z3.

ANALYTICAL RESULTS

Clean-up Goal and/or Screening Level Descriptions

To fully consider site conditions, implications, and to draw conclusions about possible sources, analytical results will be compared to the background samples collected from off-site locations during this investigation, Environmental Protection Agency (EPA) Preliminary Remediation Goals (PRGs), and San Francisco Bay Regional Water Quality Control Board (RWQCB) Environmental Screening Levels (ESLs).

Department of Toxic Substances Control's (DTSC) "LeadSpread", an Excel worksheet developed for the analysis of the risk associated with environmental exposure to lead, was used to evaluate lead conditions at the site. In 1994, the EPA determined that critical effects occur as a result of lead exposure at so low a concentration as to be essentially without a threshold. As a

result, the EPA's Reference Dose Workgroup considered it inappropriate to set a reference dose. Therefore, the California DTSC recommends calculating hazard quotients using "Lead Risk Assessment Spreadsheet," an Excel spreadsheet that evaluates predicted effects of lead exposure in various scenarios based on site and default input parameters. A brief discussion of each of these "clean-up goals" is provided below.

Background concentrations were only established for those metals detected in samples collected from off-site locations during this investigation, as well as in two locations collected during previous investigations. Background concentrations were calculated for zirconium, strontium, rubidium, lead, zinc, iron, and barium by taking the average of all XRF readings for each analyte. Table 1 presents background sample metals concentrations, averages and standard deviations.

Region 9 PRGs were developed by the United States EPA as risk-based concentrations used for evaluating contaminated sites. PRGs consider human health toxicity and common exposure pathways to estimate contaminant concentrations in soil, water, and air that are considered health risks by the EPA (EPA, 2004a). PRGs are screening goals, intended to provide health protection with little knowledge of future exposure conditions at the site.

The ESLs, revised from earlier Risk-Based Screening Levels, were developed by the San Francisco Bay RWQCB. The ESLs are also risk-based concentrations, and were developed to protect human health. The ESLs additionally address potential ecological concerns and beneficial uses of ground water (RWQCB, 2003).

Lead exposure is calculated for two exposure scenarios: residential, in which exposure occurs over 7 days per week for both adults and children; and occupational, in which exposure occurs over 5 days per week in adults. The output includes predicted estimates of blood lead level and the percentile of the population in which those blood lead levels fall in several populations, corresponding to various average soil lead concentrations. The model includes an occupational scenario (adults at an exposure frequency of 5 days per week), residential (adults and children at 7 days per week), as well as a calculation for children with the eating disorder known as "pica" in which they may eat soil.

The presence of a chemical at a concentration above the PRG or ESL does not necessarily indicate that adverse impacts to human health or the environment are occurring; exceeding these

concentrations indicates that the potential for impacts may exist and that additional evaluation may be needed.

Analytical Results

XRF analytical results are presented in Table 2 with Background, PRG and ESL values. For comparison purposes corresponding XRF and laboratory analytical data are included in Table 3. Copper, lead, and zinc concentrations in soil between 0.5 and 1 foot are individually presented on Figures 3, 4, and 5, respectively. Copies of the analytical reports and chain of custody documentation are presented in Attachment 2. Table 4 presents standard and calibrations of the XRF environmental analyzers.

To compare the accuracy of results provided by the portable XRF analyzer, 11 samples (approximately 5 percent of the total) were sent to a state certified laboratory for analysis of CAM 17 metals (EPA 1990). Based on review of Table 3, it appears that metals detected by the XRF were consistently detected by the laboratory within the same order of magnitude, with some minor exceptions.

First, the XRF detection limits of analytes varied from test run to test run. Due to time constraints detection limits were not manually recorded during each run and additionally, limits for analytes that were below detection threshold were not recorded by the XRF data logger because this wasn't an option provided by the analyzer. However, detection limits of non-detect metals were manually recorded for one of the runs on S10 from 2.5 to 3 feet, V6 from 0.5 to 1 foot and Z13 2.5 to 3 feet, which are presented on Table 2. Detection limits of arsenic, mercury, nickel, and chromium are up to an order of magnitude greater than ESLs. Based on review of these detection limits and Table 3, it appears that arsenic, mercury, nickel, and chromium reported as non-detect in a majority of the XRF results may be present in some of these samples as confirmed by laboratory results.

Second, nickel and chromium XRF results were inconsistent across the site. If a particular sample was run two to three times, generally these metals were only detected in one of the runs, as is evident in Table 2. Our first assumption was the variable detection limits of the XRF were just above existing nickel and chromium concentrations. However, based on a personal communication with a technician at NITON (Vince Rose, April 2005) chromium is the least accurate analyte using XRF; apparently, the XRF analyzer tends to overstate chromium

concentrations. While nickel and chromium were detected in all laboratory samples analyzed, they were not present in concentrations reported by the XRF analyzer. Unfortunately, XRF nickel and chromium concentrations are inconclusive at this time.

CONTAMINANT ASSESSMENT

The following discussion of the identified metals concentrations is based on an evaluation of the subsurface information gathered during this investigation at the subject property.

Shallow Soil Samples (0.5 to 1 feet)

Based on analytical results it appears elevated metals concentrations were detected in the upper foot of soils across the site with the general exception of near the property lines. Elevated XRF concentrations of copper, lead, and zinc were consistently detected in samples across the site exceeding ESL concentrations. In addition, the laboratory detected chromium and cadmium concentrations exceeding ESLs.

Copper

As illustrated in Figure 3, elevated copper concentrations were generally found in locations west and north east of the car crusher, near the existing storage shed and in the southern area of the yard. Copper was generally not reported in the eastern portion of the site or along fence perimeters.

XRF analysis reported approximately 27 shallow soil samples with copper concentrations exceeding the RWQCB ESL of 230 ppm. Of these, the copper concentration in the sample from location V14, located near the Quonset hut, exceeds the total threshold limit concentration (TTLC) of 2,500 ppm as defined by California Code of Regulations Title 22.

Lead

As illustrated in Figure 4, elevated lead concentrations were typically found in samples near the existing buildings, on the northeast side of the car crusher, and along a transect of the property running north south (locations Y8 to T3), which likely follows the base of the on-site slope. Elevated lead was generally not reported in the eastern portion of the site or along fence perimeters.

Lead Sample Results

XRF analysis reported approximately 43 shallow samples with lead concentrations greater than the Cal Modified PRG 150 μg/g. Of these, eight samples (T4, T6, T7, V14, W10, X6, X8, and Z7) exceed the lead TTLC of 1,000 part per million (ppm), as defined by California Code of Regulations Title 22.

The North Coast Laboratory (NCL) report shows that lead was detected in the shallow sample from locatioin X6 at a concentration of 34,000 μg/g, a lead concentration not observed anywhere else on the site. NCL analyzed the sample using inductively coupled plasma-atomic emission spectrometry (ICP-AES), which determines metals concentrations by measuring the light emitted by the argon plasma after the nebulized sample is introduced to a torch. XRF analysis reported lead concentrations for this sample of 980.37 and 1,063.5 ppm, up to two orders of magnitude different. Based on the discrepancy, LACO contacted Alpha Analyticals to process the sample using inductively coupled plasma-mass spectrometry (ICP-MS). ICP-MS determines metal concentrations by measuring the mass of the argon plasma plume after the nebulized sample is introduced to a torch. The ICP-MS method is generally considered more accurate than ICP-AES because reporting limits are lower. The Alpha Analytical reported the lead concentration as 920,000 μg/kg (equivalent to 920 μg/g) from location X6. This concentration is nearly the same as reported XRF results. While we can not completely dismiss the NCL results, we conclude that elevated lead was likely present in the NCL sample but, NCL results do not typify lead concentrations at the site.

"LeadSpread" Evaluation

The "LeadSpread" spreadsheet uses either user-specified or default values for the following parameters: lead in air; lead in soil/dust; lead in water; percent home-grown produce; and respirable dust. In this analysis, default values were used for lead in air (0.028 $\mu g/m^3$) and respirable dust (1.5 $\mu g/m^3$). DTSC recommends using the 95th percentile upper confidence limit (95th UCL) of the mean for site data for the lead in soil value; however there are numerous statistical methods by which this can be calculated. The 95th UCL represents the concentration at which there is a 95 percent chance that the true population mean is below. In order to calculate the 95th UCL for this evaluation, the XRF data was put through a statistical analysis developed for the EPA called "ProUCL," which determines the nature of the data and the 95th UCL that best describes them (EPA 2004). Kasey Ashley, of the CRWQCB, agreed to the selection of the recommendation of this program as the value to use in the "LeadSpread" analysis (April 2005).

"ProUCL" cannot process data points below detection limits and if greater than 15 percent of the dataset consists of "NDs" it is not valid to replace with some fraction of the detection limit (for example, one-half the detection limit) as is commonly done. To leave these data points out of the calculation results in a 95th UCL skewed artificially high. Therefore, with the approval of Kasey Ashley, the data points that read below detection limits were replaced with the average background value of 35 µg/g (April 2005). In addition, as there were multiple readings for each sample, the highest was chosen for the statistical evaluation. "ProUCL" recommended the Chebyshev UCL, with an associated value of 428.8 µg/g lead (Table 5).

In the "LeadSpread" analysis, a site-specific lead in soil concentration of 429 µg/g was used in place of the default. In addition, the default value for lead in water was replaced with the actual concentration cited by the City of Arcata (3.5 µg/L; City of Arcata 2003) and the percent home-grown produce was changed to zero. All other defaults in the program were accepted.

As described above, program output consists of estimated blood lead levels in various populations at specific soil lead concentrations (Table 6). For the population most at risk at this site, children, a soil PRG of 358 µg/g would result in a predicted blood lead level of 11.5 micrograms lead per deciliter blood (µg/dl) in 99 percent of children. As "elevated" blood lead levels are generally defined as 10 µg/dl (CDC 2000), a soil lead PRG of 300 µg/g would be protective of human health at the 99th percentile.

Zinc

As illustrated in Figure 5, zinc was detected in a majority of the samples collected between 0.5 to 1 foot. Elevated zinc concentrations exceeding the ESL of 600 ppm were found near the existing Quonset hut, on the northeast side of the car crusher, near the existing storage shed, and in the southern area of the yard. Zinc concentrations at the site did not exceed the TTLC of 5,000 ppm, as defined by California Code of Regulations Title 22.

Chromium

Chromium was detected in all 11 samples processed by the laboratory at concentrations well below typical XRF detection limits. Concentrations reported by the laboratory were generally up to two orders of magnitude below the inconsistent concentrations reported by the XRF analysis. Of the nine shallow samples submitted to the laboratory, chromium was detected above the ESL

of 58 ppm in six. Based on laboratory data, it is likely that chromium exists above the ESL in other locations across the site, especially locations where other elevated metals were detected.

Cadmium

Cadmium was detected in seven of the nine shallow soil samples processed by the laboratory, at concentrations well below typical XRF detection limits. All seven cadmium concentrations exceed the ESL of 1.7 μg/g. Based on laboratory data, it is likely that cadmium exists above the ESL in other locations across the site, especially locations where other elevated metals were detected.

Deeper Soil Samples (greater than 1.5 feet)

Based on analytical results, elevated metals concentrations do not appear to be impacting deeper soils at the site. Metals concentrations detected in samples collected below depths of 1.5 feet are generally within the range of background concentrations and below ESLs.

Chromium detected by the laboratory in the sample from location W10, 3.5 to 4 feet (70 ppm), was just above the ESL of 58 μg/g. This is the only analyte the laboratory detected, at depth, above the ESL concentration.

CONCLUSIONS AND RECOMMENDATIONS

Mapped analytical results show elevated concentrations of copper, lead, zinc, cadmium and chromium impact the upper foot of soils across the salvage yard area with exception to the southeast upper slope and the perimeter of the property. With the exception of the chromium detection above the ESL, elevated metals concentrations do not impact soils below a depth of approximately 1.5 feet.

Copper, lead, zinc, and potentially cadmium and chromium concentrations exceeding the ESLs and Cal Modified PRG are prevalent at the site. Metals concentrations exceeding their screening goal are an environmental concern that could potentially pose a risk to human health or the environment. Based on the proposed development and use of the site, we recommend the upper foot of soil be removed from the salvage yard area to the extent of lead measured at concentrations above 300 μg/g. This soil is to be segregated as much as feasible as some will be classified as hazardous, off-hauled and disposed of at appropriately permitted landfills. There will have to be rigorous dust control measures to suppress dust emissions during soil removal

activities as well as decontamination of wheels and tires of vehicles prior to leaving the site. We additionally recommend a soil contingency plan be in place for the proposed development of the site, addressing potential exposure to elevated metals and, based on previous investigations possibly total petroleum hydrocarbons, during grading activities at the site.

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Attachment 1: NITON recommended sample preparation
Attachment 2: Analytical Results

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LACO ASSOCIATES CONSULTING ENGINEERS 21 W 4TH ST. EUREKA, CA 95501 (707)443-5054	PROJECT	REPORT OF FINDINGS	BY	RJM	FIGURE
	CLIENT	KD INVESTMENTS	DATE	4/21/05	1
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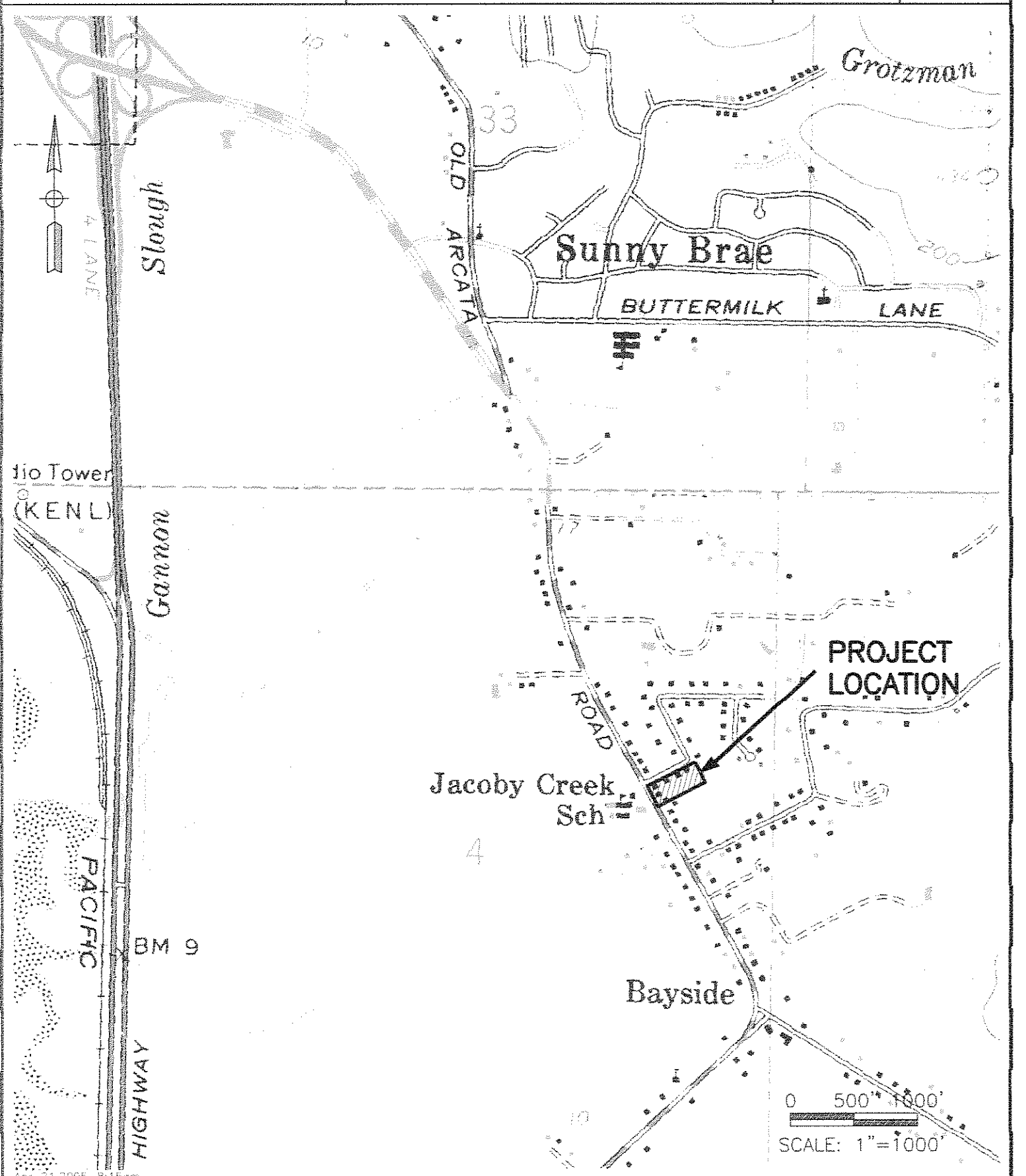
		LOCATION MAP	SCALE	1"=1000'	5189.04



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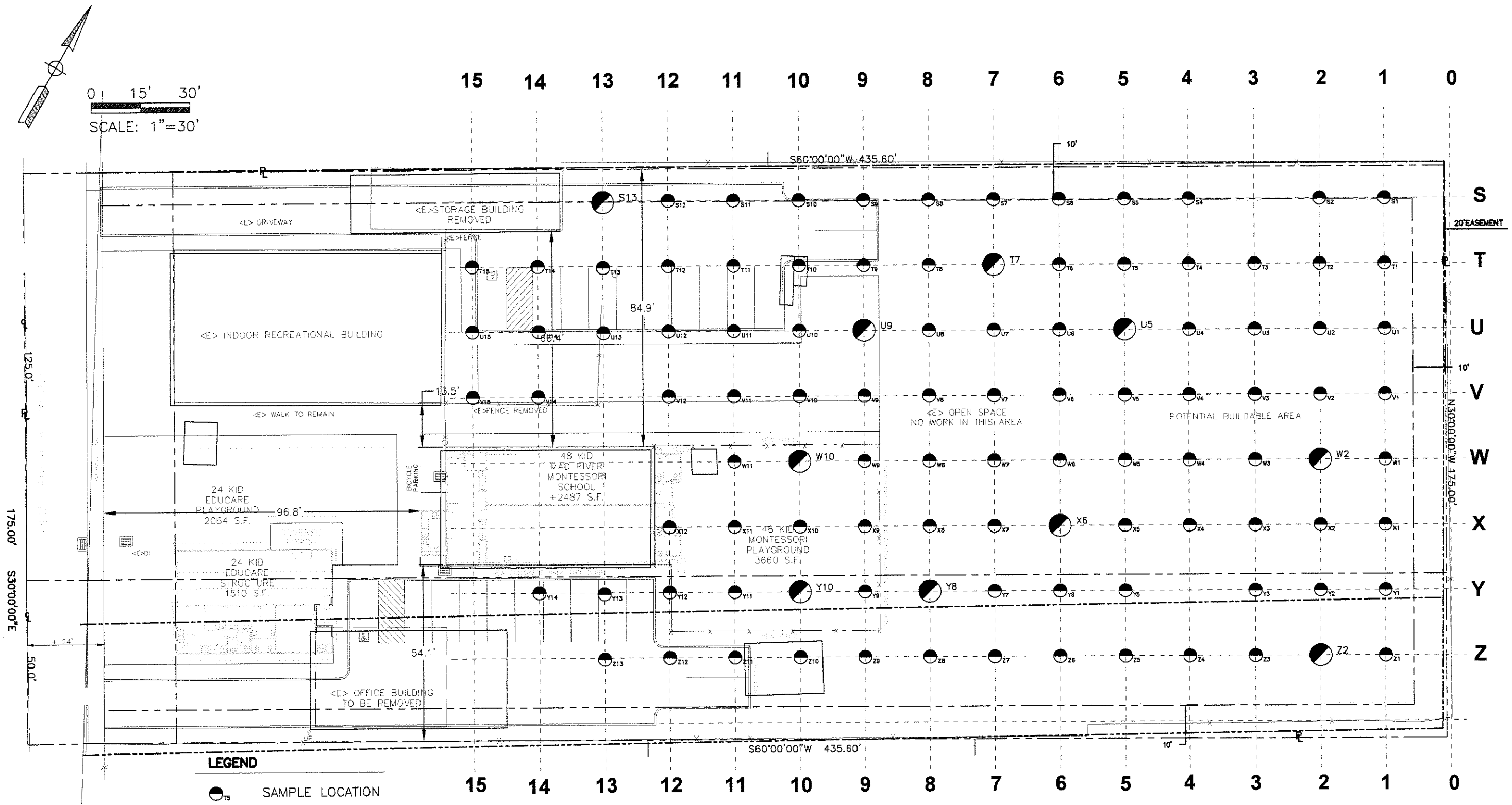

LEGEND

T5 SAMPLE LOCATION

Y10 SAMPLE FROM THESE LOCATIONS WERE ADDITIONALLY ANALYZED AT A STATE CERTIFIED LABORATORY FOR CAM 17 METALS

NOTE: BASE MAP LAYOUT RECEIVED FROM KASH BOODJEH, ARCHITECT, 3/19/05

NO.	REVISION	BY	CHK	DATE

LACO ASSOCIATES
CONSULTING ENGINEERS
216 J ST. EUREKA, CA 95501 (707)443-5054

REPORT OF FINDINGS
SITE MAP

KD INVESTMENTS
FORMER ROGER'S GARAGE

SCALE	1"= 30'
DRAWN	RJM/BAB
CHECK	GJE
APPVD	
DATE	4/20/05
JOB NO.	5189.04
FIGURE	2

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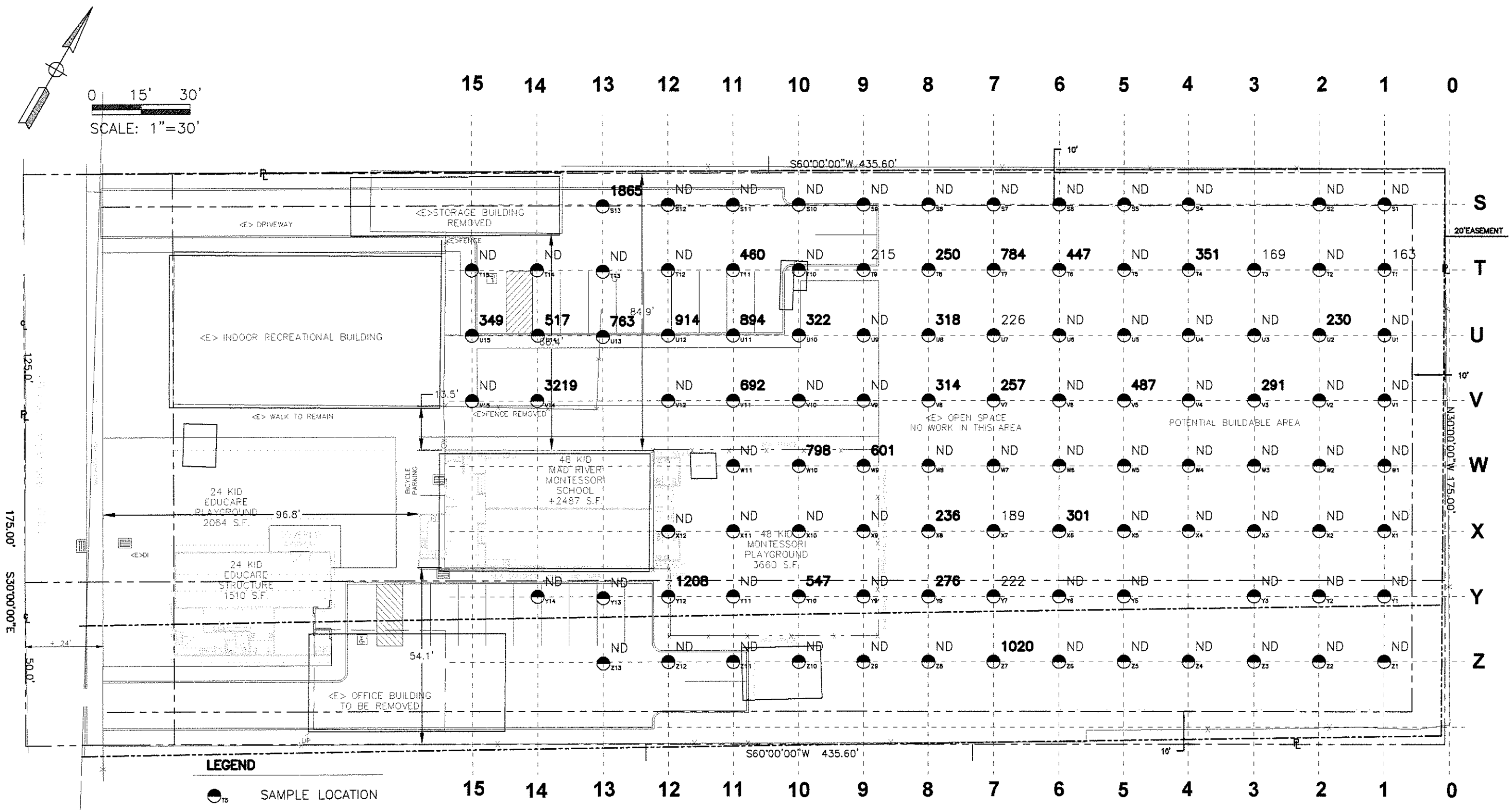

LEGEND

T5	SAMPLE LOCATION
467	BOLD NUMBERS EXCEED ESL GOAL OF 230 MICROGRAMS PER GRAM (μg/g)
ND	BELOW DETECTION LIMITS

ALL RESULTS REPORTED IN MICROGRAMS PER GRAM (μg/g)

CONCENTRATIONS IN PARTS PER MILLION (PPM)
CONCENTRATIONS REPRESENT AVERAGE OF ALL XRF DATA ASSOCIATED WITH THAT POINT

NOTE: BASE MAP LAYOUT RECEIVED FROM KASH BOODJEH, ARCHITECT, 3/19/05

NO.	REVISION	BY	CHK	DATE

LACO ASSOCIATES
CONSULTING ENGINEERS
216 J ST. EUREKA, CA 95501 (707)443-5054

REPORT OF FINDINGS
COPPER IN SOIL BETWEEN 0.5'-1.0' (XRF)

KD INVESTMENTS
FORMER ROGER'S GARAGE

SCALE	1"= 30'
DRAWN	RJM/BAB
CHECK	GJE
APPVD	
DATE	4/20/05
JOB NO.	5189.04
FIGURE	3

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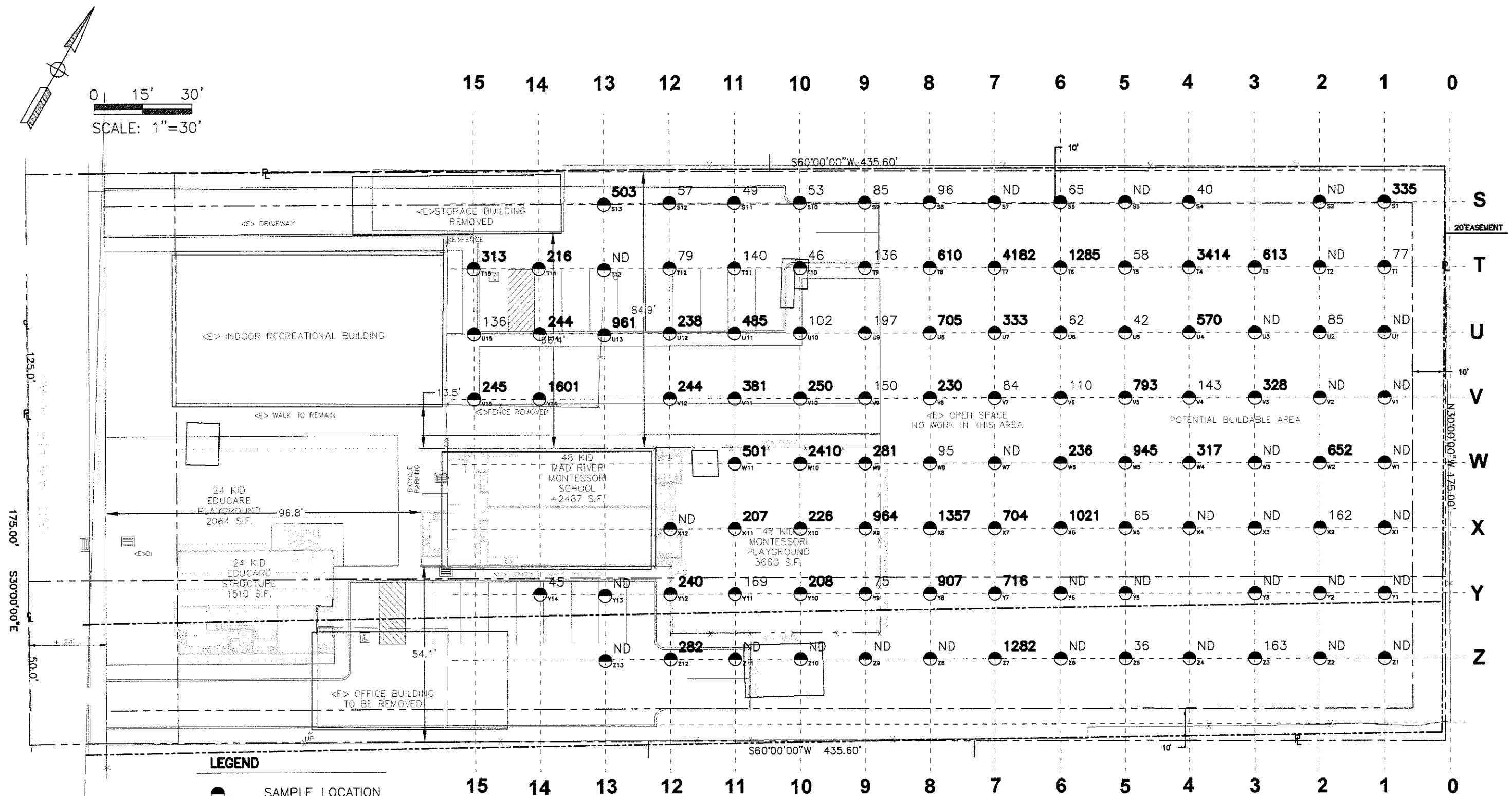

LEGEND

◓ T5	SAMPLE LOCATION
244	BOLD NUMBERS EXCEED ESL GOAL OF 200 MICROGRAMS PER GRAM (μg/g)
ND	BELOW DETECTION LIMITS

ALL RESULTS REPORTED IN MICROGRAMS PER GRAM (μg/g)

CONCENTRATIONS IN PARTS PER MILLION (PPM)
CONCENTRATIONS REPRESENT AVERAGE OF ALL XRF DATA ASSOCIATED WITH THAT POINT

NOTE: BASE MAP LAYOUT RECEIVED FROM KASH BOODJEH, ARCHITECT, 3/19/05

NO.	REVISION	BY	CHK	DATE

LACO ASSOCIATES
CONSULTING ENGINEERS
216 J ST. EUREKA, CA 95501 (707)443-5054

REPORT OF FINDINGS
LEAD IN SOIL BETWEEN 0.5'-1.0' (XRF)

KD INVESTMENTS
FORMER ROGER'S GARAGE

SCALE	1"= 30'
DRAWN	RJM/BAB
CHECK	GJE
APPVD	
DATE	4/20/05
JOB NO.	5189.04
FIGURE	4

Apr 22,2005-1:21pm
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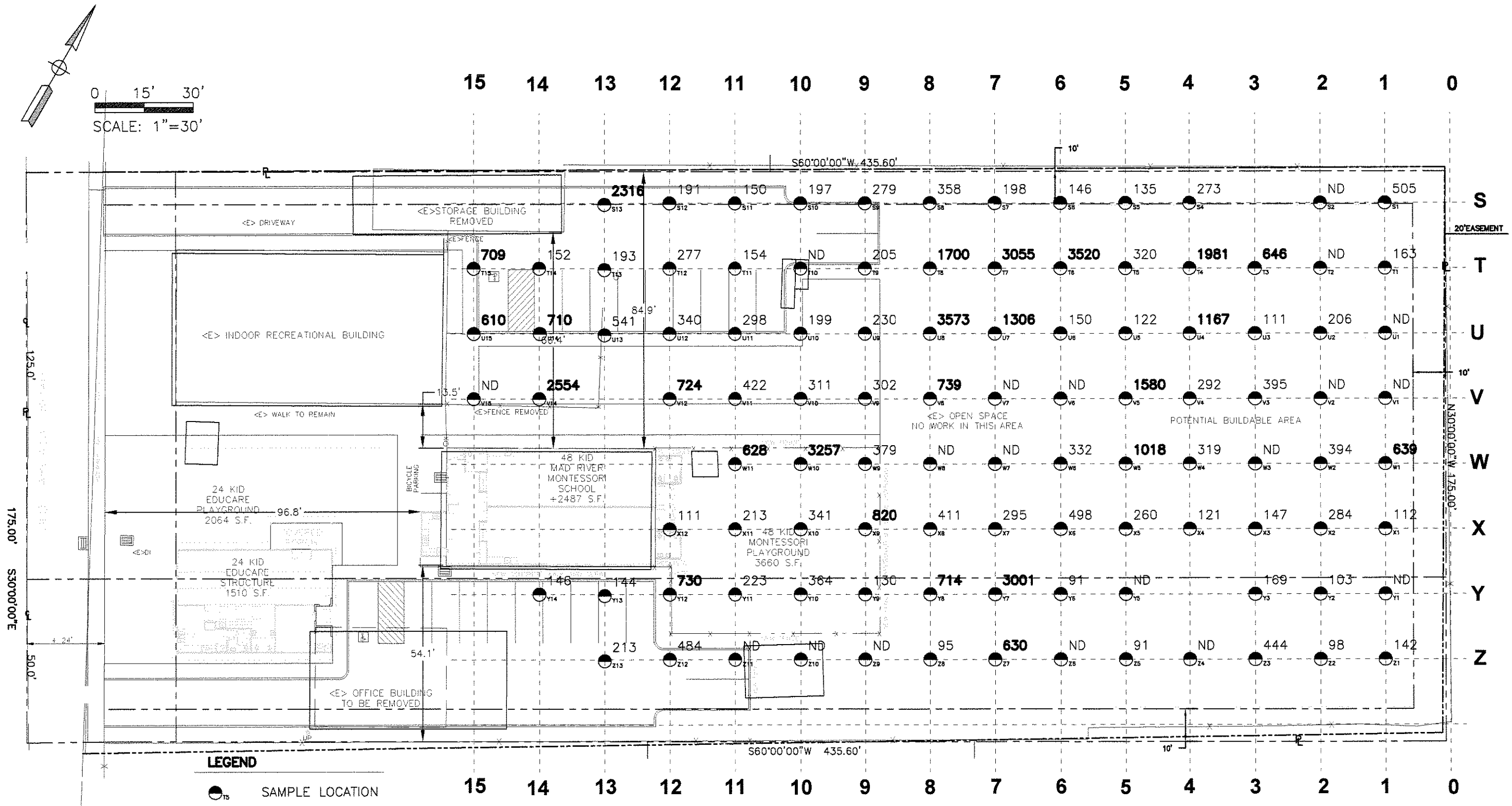

LEGEND

●T5	SAMPLE LOCATION
724	BOLD NUMBERS EXCEED ESL GOAL OF 600 MICROGRAMS PER GRAM (μg/g)
ND	BELOW DETECTION LIMITS

ALL RESULTS REPORTED IN MICROGRAMS PER GRAM (μg/g)

CONCENTRATIONS IN PARTS PER MILLION (PPM)
CONCENTRATIONS REPRESENT AVERAGE OF ALL XRF DATA ASSOCIATED WITH THAT POINT

NOTE: BASE MAP LAYOUT RECEIVED FROM KASH BOODJEH, ARCHITECT, 3/19/05

NO.	REVISION	BY	CHK	DATE

LACO ASSOCIATES
CONSULTING ENGINEERS
216 J ST. EUREKA, CA 95501 (707)443-5054

REPORT OF FINDINGS
ZINC IN SOIL BETWEEN 0.5'-1.0' (XRF)

KD INVESTMENTS
FORMER ROGER'S GARAGE

SCALE	1"= 30'
DRAWN	RJM/BAB
CHECK	GJE
APPVD	
DATE	4/20/05
JOB NO.	5189.04
FIGURE	5

Apr 22,2005- 1:36pm
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TABLE 1: XRF Analytical Results for Background Metals in Soil
Roger's Garage
KD Investments
LACO Job No.: 5189.04

Reading No	Sample #	Mo	Zr	Sr	Rb	Pb	As	Hg	Zn	Cu	Ni	Fe	Mn	Cr	Ba	Sn
Background samples																
372	TCP: 0.5-	ND	139.89	46.67	29.46	ND	ND	ND	ND	ND	ND	25,633.97	ND	ND	ND	ND
373	1.0	ND	165.44	32.69	43.71	ND	ND	ND	ND	ND	ND	27,645.99	ND	ND	ND	ND
374	JCS-N:	ND	105.35	66.32	40.13	ND	ND	ND	228.04	ND	ND	20,943.55	ND	ND	301.11	ND
376	0.5-1.0	ND	123.46	57.36	33.79	68.34	ND	ND	165.79	ND	ND	20,062.97	ND	ND	288.19	ND
377	JCS-S:	ND	88.87	84.6	31.93	ND	ND	ND	ND	ND	ND	27,265.38	ND	ND	257.8	ND
378	0.5-1.0	ND	94.48	40.4	28.62	ND	ND	ND	ND	ND	ND	26,173.99	ND	ND	238.57	ND
379	GCR: 0.5-	ND	61.59	ND	28.58	ND	ND	ND	ND	ND	ND	18,894.94	ND	ND	159.41	ND
380	1.0	ND	54.56	29.3	27.46	ND	ND	ND	ND	ND	ND	16,319.54	ND	ND	180.52	ND
Average Background Concentrations		ND	104	48	33	61	ND	ND	160	ND	ND	22,868	ND	ND	214	ND
Standard Deviations		ND	38	20	6	2	ND	ND	44	ND	ND	4,326	ND	ND	57	ND

For ND took off 10% from lowest number

TABLE 2: XRF Analytical Results for Metals in Soil
Roger's Garage
KD Investments
LACO Job No.: 5189.04

Reading No	Sample #	Mo	Zr	Sr	Rb	Pb	As	Hg	Zn	Cu	Ni	Fe	Mn	Cr	Ba	Sn
PRG (Residential)		390	NE	47,000	NE	150	22	23	23,000	3,100	1,600	23,000	1,800	210	5,400	47,000
ESL		40	NE	NE	NE	200	5.5	2.5	600	230	150	NE	NE	58	750	NE
Background		ND	104	51	33	68	ND	ND	160	ND	ND	22,870	ND	ND	215	ND
March 22, 2005																
30	S1: 0.5-1.0	ND	224.42	38.3	35.41	**331.13**	ND	ND	472.56	ND	ND	55,355.68	1164.99	ND	ND	0
31		ND	201.04	42.47	40.49	**340.82**	ND	ND	538.5	ND	ND	44,824.34	633.83	ND	ND	0
32	S1: 3.0-3.5	ND	240.19	26.2	18.84	ND	ND	ND	ND	ND	ND	33,442.34	ND	ND	ND	ND
33		ND	216.7	24.88	25.78	ND	ND	ND	ND	ND	ND	34,468.47	ND	ND	ND	ND
35	S2: 0.5-1.0	ND	142.6	ND	ND	ND	ND	ND	ND	ND	ND	29,971.82	ND	ND	ND	0
36		ND	274.76	ND	ND	ND	ND	ND	ND	ND	ND	33,658.59	ND	ND	ND	0
37		ND	227.8	42.93	ND	ND	ND	ND	ND	ND	ND	36,179.16	ND	ND	ND	0
38	S2: 3.0-3.5	ND	247.87	38.09	24.77	ND	ND	ND	ND	ND	ND	23,886.48	ND	ND	ND	ND
39		ND	229.47	26.33	24.68	ND	ND	ND	ND	ND	ND	23,861.31	ND	ND	ND	0
41	S4: 0.5-1.0	ND	199.39	43.66	34.51	ND	ND	ND	245.67	ND	ND	28,888.96	ND	568	ND	0
42		ND	160.68	33.64	31.05	ND	ND	ND	203.51	ND	ND	24,372.31	ND	ND	248.13	ND
43		ND	199.85	39.28	38.35	43.38	ND	ND	373.62	ND	ND	29,582.70	ND	ND	309.65	ND
44	S4: 2.5-3.0	ND	249.14	38.71	18.21	ND	ND	ND	ND	ND	ND	28,995.42	ND	ND	225.67	ND
45		ND	241.97	30.59	17.72	ND	ND	ND	111.26	ND	ND	25,143.24	ND	ND	ND	ND
46	S5: 0.5-1.0	ND	190.41	46.87	48.7	ND	ND	ND	152.44	ND	ND	27,336.17	593.42	ND	357.32	ND
47		ND	194.48	42.01	42.24	ND	ND	ND	118.65	ND	ND	25,953.74	665.11	ND	334.79	ND
48	S5: 3.0-3.5	ND	224.55	32.7	20.96	ND	ND	ND	ND	ND	ND	26,316.25	ND	ND	ND	ND
49		ND	213.21	24.71	18.69	ND	ND	ND	ND	ND	ND	30,164.45	ND	ND	182.69	ND
51	S6: 0.5-1.0	ND	176.4	38.02	38.19	80.54	ND	ND	138.18	ND	ND	37,848.03	ND	ND	183.74	ND
52		ND	167.34	30.73	35.98	51.24	ND	ND	155.41	ND	ND	39,842.71	ND	ND	278.68	ND
54	S6: 2.0-2.5	ND	215.73	32.3	14.77	ND	ND	ND	ND	ND	ND	36,301.17	ND	ND	ND	ND
57		ND	222.19	24.8	22.96	ND	ND	ND	ND	ND	ND	28,839.34	ND	ND	ND	ND
58	S7: 0.5-1.0	ND	189.84	34.94	28.19	ND	ND	ND	214.32	ND	ND	30,875.13	ND	ND	217.85	ND
59		ND	182.51	37.32	35.96	ND	ND	ND	170.94	ND	ND	30,508.23	ND	ND	226.94	ND
61		ND	216.03	40.31	27.73	ND	ND	ND	210.25	ND	ND	31,514.59	ND	ND	185.74	ND
62	S7: 2.5-3.0	ND	237.26	48.2	15.22	ND	ND	ND	ND	ND	ND	15,132.65	ND	ND	ND	ND
63		ND	252.05	41.64	22.35	ND	ND	ND	ND	ND	ND	15,583.90	ND	454.13	ND	ND
64		ND	248.34	40.48	16.28	ND	ND	ND	ND	ND	ND	17,103.62	ND	ND	ND	ND
65	S8: 0.5-1.0	ND	164.53	47.72	29.5	68.04	ND	ND	384.9	ND	ND	37,044.96	ND	ND	203.86	ND
66		ND	154.61	45.94	35.05	115.96	ND	ND	388.49	ND	ND	34,180.02	ND	ND	307.71	ND
387*	S8: 0.5-1.0	ND	131.16	48.23	31.36	105.63	ND	ND	304.47	ND	ND	35,686.70	ND	ND	232.93	ND
67	S8: 3.0-3.5	ND	154.33	25.2	25.4	ND	ND	ND	ND	ND	ND	36,756.07	ND	ND	204.43	ND
68		ND	230.28	22.84	28.76	ND	ND	ND	ND	ND	ND	39,271.22	ND	ND	ND	ND
69	S9: 0.5-1.0	ND	113.49	62.98	30	ND	ND	ND	292.15	ND	ND	29,644.08	ND	ND	162.58	ND
70		ND	150.72	59.75	23.57	90.83	ND	ND	266.96	ND	ND	32,023.24	ND	ND	260.31	ND
71	S9: 3.0-3.5	ND	194.7	26.95	20.06	ND	ND	ND	ND	ND	ND	34,112.79	ND	ND	ND	ND
72		ND	226.96	24.14	20.32	ND	ND	ND	ND	ND	ND	39,998.19	ND	ND	ND	ND

TABLE 2: XRF Analytical Results for Metals in Soil
Roger's Garage
KD Investments
LACO Job No.: 5189.04

Reading No	Sample #	Mo	Zr	Sr	Rb	Pb	As	Hg	Zn	Cu	Ni	Fe	Mn	Cr	Ba	Sn
PRG (Residential)		**390**	**NE**	**47,000**	**NE**	**150**	**22**	**23**	**23,000**	**3,100**	**1,600**	**23,000**	**1,800**	**210**	**5,400**	**47,000**
ESL		**40**	**NE**	**NE**	**NE**	**200**	**5.5**	**2.5**	**600**	**230**	**150**	**NE**	**NE**	**58**	**750**	**NE**
Background		**ND**	**104**	**51**	**33**	**68**	**ND**	**ND**	**160**	**ND**	**ND**	**22,870**	**ND**	**ND**	**215**	**ND**
74	S10: 0.5-1.0	ND	176.77	74.09	37.1	ND	ND	ND	207.8	ND	ND	28,979.61	519.29	ND	386.9	ND
78		ND	152.07	68.59	37.48	69.22	ND	ND	200.31	ND	ND	25,586.35	405.45	ND	300.62	ND
80		ND	159.21	68.86	42.38	47.46	ND	ND	185.53	ND	ND	28,859.36	540.27	ND	337.75	ND
82	S10: 2.5-3.0	ND	225.02	35.97	19.03	ND	ND	ND	ND	ND	ND	49,875.34	ND	352.14	236.76	ND
83		ND	209.03	34.25	23.91	ND	ND	ND	ND	ND	ND	57,089.25	ND	ND	187.1	ND
84		ND	214.53	37.31	22.26	ND	ND	ND	ND	ND	ND	59,815.31	ND	489.72	ND	ND
385*	S10: 2.5-3.0	<5.6	155.14	47.3	22.69	<35.9	<28.3	<38.8	<94.3	<126.8	<227.3	52,252.82	<530.6	<502.0	153.27	<206.9
386*		ND	146.41	39.67	19.82	ND	ND	ND	ND	ND	ND	55,972.58	ND	ND	137.87	ND
85	S11: 0.5-1.0	ND	147.94	40.68	25.04	ND	ND	ND	154.63	ND	ND	33,857.16	ND	ND	ND	ND
88		ND	159.37	50.06	35.13	53.23	ND	ND	127.8	ND	ND	31,533.67	ND	ND	307.83	ND
89		ND	160.66	56.91	32.89	ND	ND	ND	169.74	ND	ND	34,098.70	ND	ND	283.52	ND
92	S11: 3.0-3.5	ND	231.34	34.56	15.9	ND	ND	ND	ND	ND	ND	33,483.42	ND	ND	219.06	ND
93		ND	208.09	34.41	17.27	ND	ND	ND	ND	ND	258.66	34,616.10	ND	ND	ND	ND
94		ND	212.66	38.76	18.47	ND	ND	ND	ND	ND	ND	34,270.85	ND	ND	ND	ND
95	S12: 0.5-1.0	ND	161.73	57.57	37.91	53.71	ND	ND	203.72	ND	ND	29,515.75	ND	ND	440.28	ND
96		ND	155.55	58.39	32.91	62.03	ND	ND	ND	ND	ND	30,081.80	ND	ND	287.18	ND
97	S12: 2.5-3.0	ND	249.99	45.49	18.75	ND	ND	ND	ND	ND	ND	36,526.92	ND	ND	ND	ND
98		ND	255.67	38.9	19.38	ND	ND	ND	ND	ND	ND	36,880.78	ND	ND	ND	ND
99	S13: 0.5-1.0	ND	101.99	35.91	27.36	**705.01**	ND	ND	**3169.94**	**2377.91**	ND	60,636.03	ND	662.72	384.65	ND
100		ND	124.54	44.96	28.68	**422**	ND	ND	**2171.97**	**1505.34**	ND	49,989.85	762.18	ND	251.04	ND
101		ND	93.64	39.6	31.29	**496.34**	ND	ND	**2214.48**	**1746.45**	ND	52,310.40	988.07	ND	363.34	ND
388*	S13: 0.5-1.0	ND	101.62	44.34	32.98	**473.53**	ND	ND	**1869.85**	**1727.14**	288.79	54,099.63	675.5	ND	231.8	ND
389*		ND	74.75	34.75	31.53	**419.12**	ND	ND	**2160.57**	**1971.4**	ND	56,481.53	ND	ND	180.77	ND
102	S13: 2.5-3.0	ND	246.41	58.29	19.25	ND	ND	ND	ND	ND	ND	24,912.50	ND	ND	ND	ND
106		ND	286.15	50.67	19.59	ND	ND	ND	ND	ND	ND	25,110.63	ND	ND	ND	ND
107	T1: 0.5-1.0	ND	210.62	42.55	41.23	73.6	ND	ND	151.73	ND	ND	28,832.34	465.41	ND	252.18	ND
108		ND	192.55	45.66	34.42	80.62	ND	ND	175.81	ND	ND	28,849.51	664.7	ND	277.41	ND
109	T1: 3.5-4.0	ND	212.68	31.23	17.25	ND	ND	ND	ND	ND	ND	39,741.71	ND	ND	ND	ND
110		ND	268.26	22.76	26.76	ND	ND	ND	ND	ND	ND	41,061.94	ND	ND	185.06	ND
111	T2: 0.5-1.0	ND	265.29	42.71	25.65	ND	ND	ND	ND	ND	ND	22,456.97	ND	ND	ND	ND
112		ND	271.53	38.77	28.23	ND	ND	ND	ND	ND	ND	22,840.69	ND	ND	172.41	ND
113	T2: 2.5-3.0	ND	233.42	30.5	22.99	ND	ND	ND	ND	ND	ND	36,962.22	ND	ND	ND	ND
115		ND	235.74	21.6	27.25	ND	ND	ND	ND	ND	ND	39,998.63	ND	ND	241.47	ND
116	T3: 0.5-1.0	ND	209.21	43.03	33.66	**537.16**	ND	ND	596.45	ND	ND	46,265.79	ND	ND	307.43	ND
117		ND	165.64	50.11	27.3	**705.69**	ND	ND	**745.61**	ND	ND	53,195.27	663.03	ND	475.88	ND
390*	T3: 0.5-1.0	ND	141.87	48.06	40.29	**598.05**	ND	ND	599.97	182.18	ND	48,018.20	ND	ND	268.65	ND
118	T3: 2.0-2.5	ND	249.03	31.09	24.84	ND	ND	ND	ND	ND	ND	31,733.57	ND	ND	170.25	ND
119		ND	243.67	33.1	24.63	ND	ND	ND	ND	ND	ND	32,606.80	ND	ND	241.66	ND
120	T4: 0.5-1.0	ND	140.74	66.37	24.11	**3385.53**	ND	ND	**2009.08**	**358.79**	ND	81,960.31	976.45	ND	462.72	ND
121		ND	171.75	74.36	38.18	**3677.69**	ND	ND	**1894.25**	**375.04**	ND	85,945.25	1147.8	ND	436.47	ND

TABLE 2: XRF Analytical Results for Metals in Soil
Roger's Garage
KD Investments
LACO Job No.: 5189.04

Reading No	Sample #	Mo	Zr	Sr	Rb	Pb	As	Hg	Zn	Cu	Ni	Fe	Mn	Cr	Ba	Sn
PRG (Residential)		390	NE	47,000	NE	150	22	23	23,000	3,100	1,600	23,000	1,800	210	5,400	47,000
ESL		40	NE	NE	NE	200	5.5	2.5	600	230	150	NE	NE	58	750	NE
Background		ND	104	51	33	68	ND	ND	160	ND	ND	22,870	ND	ND	215	ND
391*	T4: 0.5-1.0	ND	93.31	91.71	40.12	**3181.99**	ND	ND	**2041.13**	**322.65**	358.77	85,723.20	1078.39	ND	401.6	ND
122	T4: 3.0-3.5	ND	221.4	30.85	26.91	ND	ND	ND	ND	ND	ND	27,502.70	ND	ND	ND	ND
123		ND	254.44	38.66	23.44	ND	ND	ND	ND	ND	ND	28,451.89	ND	418.41	ND	ND
124		ND	239.26	30.19	25.85	ND	ND	ND	ND	ND	ND	26,589.59	ND	ND	242.87	ND
125	T5: 0.5-1.0	ND	188.12	35.32	35.98	61.91	ND	ND	269.99	ND	ND	32,428.38	546.44	ND	269.74	ND
126		ND	195.27	30.3	35.16	ND	ND	ND	372.94	ND	ND	32,111.46	481.04	ND	433.88	ND
127	T5: 3.0-3.5	ND	256.9	39.48	24.3	ND	ND	ND	ND	ND	ND	28,589.00	ND	ND	187.8	ND
128		ND	270.81	33.63	21.82	ND	ND	ND	ND	ND	ND	27,168.81	ND	479.68	174.73	ND
129		ND	256.55	30.84	19.49	ND	ND	ND	ND	ND	ND	26,191.01	ND	ND	ND	ND
130	T6: 0.5-1.0	ND	114.04	84.41	33.42	**1142.72**	ND	ND	**2781.09**	**357.59**	218.98	45,498.09	1069.59	ND	669.16	ND
131		ND	83.77	70.91	31.46	**1060.74**	ND	ND	**4487.14**	**721.84**	ND	47,172.86	753.88	562.59	613.51	ND
132		ND	66.48	85.95	39.26	**1454.16**	ND	ND	**3313.85**	**398.94**	ND	50,047.54	1036.75	ND	554.32	448.72
392*	T6: 0.5-1.0	ND	76.16	83.92	33.07	**1232.6**	127.39	ND	**3369.24**	**331.18**	ND	58,811.36	ND	ND	502.32	ND
393*		ND	94.92	96.7	44.49	**1534.21**	ND	ND	**3653.73**	**431.37**	ND	51,715.16	833.86	ND	444.38	ND
134	T6: 3.0-3.5	ND	228.2	30.68	24.62	ND	ND	ND	ND	ND	ND	26,597.01	ND	ND	ND	ND
135		ND	246.74	32.29	22.92	ND	ND	ND	ND	ND	ND	25,721.21	ND	ND	ND	ND
136	T7: 0.5-1.0	ND	75.46	58.62	31.51	**4428.6**	ND	ND	**3057.88**	**787.2**	ND	142,412.05	1404.68	ND	550.54	ND
137		ND	74.49	74.14	33.55	**3976.28**	ND	ND	**2939.27**	**955.87**	ND	172,822.42	1709.95	ND	588.05	ND
394*	T7: 0.5-1.0	ND	80.63	84.97	33.68	**4143.2**	ND	ND	**3169.58**	**734.24**	439.69	144,695.30	1725.77	ND	357.1	ND
138	T7: 3.0-3.5	ND	216.96	27.34	17.23	ND	ND	ND	ND	ND	ND	27,474.84	ND	ND	ND	ND
140		ND	246.3	21.05	22.65	ND	ND	ND	ND	ND	ND	27,619.87	ND	ND	181.07	ND
145	T8: 0.5-1.0	ND	129.89	68.81	24.41	**654.18**	ND	ND	**1571.87**	ND	ND	37,701.32	1159.18	ND	369.19	ND
146		ND	116.98	57.58	43.38	**616.84**	ND	ND	**1663.48**	**289.51**	ND	43,880.92	733.34	ND	353.03	ND
147		ND	131.85	69.09	32.17	**691.58**	ND	ND	**2024.01**	**286.14**	ND	44,041.61	823.73	ND	465.47	ND
395*	T8: 0.5-1.0	ND	81.55	75.85	34.61	**474.65**	96.96	ND	**1616.55**	ND	ND	43,906.73	787.27	ND	305.64	ND
396*		ND	98.9	70.86	31.74	**618.84**	ND	ND	**1626.09**	**250.74**	278.71	44,344.64	879.64	ND	307.95	ND
150	T8: 3.0-3.5	ND	210.27	34.24	17.66	ND	ND	ND	ND	ND	ND	40,003.79	ND	ND	181.58	ND
151		ND	203.56	33.11	26.35	ND	ND	ND	ND	ND	ND	32,747.01	ND	ND	ND	ND
152	T9: 0.5-1.0	ND	96.01	114.19	23.34	123.42	ND	ND	229.27	ND	ND	42,857.14	864.93	ND	319.4	ND
153		ND	149.86	107.78	33.65	52.82	ND	ND	158.93	ND	ND	35,604.24	750.03	476.37	348.51	ND
154		ND	112.02	94.35	38.4	100.28	ND	ND	221.47	215.59	ND	33,316.62	604.54	ND	588.02	ND
397*	T9: 0.5-1.0	ND	66.93	116.56	39.22	133.67	ND	ND	215.74	ND	311.11	36,765.93	ND	ND	383.06	ND
156	T9: 2.5-3.0	ND	253.29	34.5	26.76	ND	ND	ND	ND	ND	ND	29,888.97	ND	ND	200.05	ND
157		ND	185.8	40.06	22.59	ND	ND	ND	ND	ND	ND	35,088.03	ND	ND	163.48	ND
159	T10: 0.5-1.0	ND	120.46	121.25	26.91	45.06	ND	ND	ND	ND	ND	29,106.52	526.87	ND	417.16	ND
160		ND	105.08	93.26	28.69	47.2	ND	ND	ND	ND	ND	31,021.17	579.5	ND	447.53	ND
162	T10: 2.0-2.5	ND	148.44	22.06	28.65	ND	ND	ND	ND	ND	ND	44,865.60	ND	ND	ND	ND
163		ND	122.73	37.94	24.39	ND	ND	ND	ND	ND	ND	41,614.03	ND	ND	260.42	ND
164	T11: 0.5-1.0	ND	102.2	97.36	29.59	129.3	ND	ND	222.84	**310.96**	ND	35,032.54	574.36	ND	436.12	ND
165		ND	109.78	88.14	35.53	155	ND	ND	127.17	**644.65**	ND	32,040.18	771.83	ND	460.52	ND

TABLE 2: XRF Analytical Results for Metals in Soil
Roger's Garage
KD Investments
LACO Job No.: 5189.04

Reading No	Sample #	Mo	Zr	Sr	Rb	Pb	As	Hg	Zn	Cu	Ni	Fe	Mn	Cr	Ba	Sn
PRG (Residential)		**390**	**NE**	**47,000**	**NE**	**150**	**22**	**23**	**23,000**	**3,100**	**1,600**	**23,000**	**1,800**	**210**	**5,400**	**47,000**
ESL		**40**	**NE**	**NE**	**NE**	**200**	**5.5**	**2.5**	**600**	**230**	**150**	**NE**	**NE**	**58**	**750**	**NE**
Background		**ND**	**104**	**51**	**33**	**68**	**ND**	**ND**	**160**	**ND**	**ND**	**22,870**	**ND**	**ND**	**215**	**ND**
398*	T11: 0.5-1.0	ND	67.78	115.61	38.23	136.68	ND	ND	ND	**426.98**	257.6	31,175.16	629.69	ND	345.24	ND
166	T11: 2.5-3.0	ND	211.99	39.43	23.28	ND	ND	ND	ND	ND	ND	33,562.00	ND	ND	181.49	ND
167		ND	247.93	42.32	24.18	ND	ND	ND	ND	ND	ND	32,457.03	ND	ND	217.58	ND
168	T12: 0.5-1.0	ND	133.13	50.88	34.61	73.18	ND	ND	299.23	ND	ND	34,363.32	602.87	ND	416.79	ND
169		ND	156.06	53.78	33.94	86.8	ND	ND	255.44	ND	ND	34,085.90	696.84	ND	434.01	ND
170	T12: 2.0-2.5	ND	255.62	47.7	19.81	ND	ND	ND	ND	ND	ND	32,456.86	ND	ND	ND	ND
171		ND	213.42	42.17	28.7	ND	ND	ND	ND	ND	ND	31,154.64	ND	ND	189	ND
172	T13: 0.5-1.0	ND	244.12	54.29	14.48	ND	ND	ND	ND	ND	ND	32,247.53	ND	ND	322.4	ND
173		ND	225.52	49.64	25.15	ND	ND	ND	203.87	ND	ND	31,193.96	ND	ND	222.57	ND
175	T13: 2.0-2.5	ND	160.41	44.59	19.38	ND	ND	ND	ND	ND	ND	40,121.53	ND	ND	236.41	ND
176		ND	183.53	35.28	15.53	ND	ND	ND	ND	ND	ND	48,813.26	ND	ND	188.05	ND
177	T14: 0.5-1.0	ND	66.65	71.83	17.16	**221.07**	ND	ND	**1274.2**	ND	ND	60,922.54	ND	ND	485.25	ND
178		ND	86.6	50.23	25.81	**212.33**	ND	ND	**1031.52**	ND	ND	46,006.11	ND	ND	391.87	ND
179	T14: 2.0-2.5	ND	241.65	53.22	26.95	ND	ND	ND	ND	ND	ND	20,608.37	ND	ND	ND	ND
180		ND	225.37	47.9	14.43	ND	ND	ND	ND	ND	ND	18,307.35	ND	ND	ND	ND
181	T15: 0.5-1.0	ND	116.03	41.14	26.05	**294.86**	ND	ND	**693.33**	ND	ND	68,357.16	ND	ND	377.15	ND
182		ND	112.72	46.89	28.83	**332.84**	ND	ND	**725.38**	ND	ND	77,805.76	736.76	ND	207.78	ND
183	T15: 1.5-2.0	ND	173.05	38.12	24.38	ND	ND	ND	ND	ND	ND	37,292.57	ND	454.3	ND	ND
184		ND	210.81	40.12	19.66	ND	ND	ND	ND	ND	ND	38,543.65	ND	ND	211.51	ND
185		ND	199.82	40.25	29.85	ND	ND	ND	ND	ND	ND	37,650.98	ND	ND	202.42	ND
186	U1: 0.5-1.0	ND	247.45	38.95	37.37	ND	ND	ND	ND	ND	ND	31,051.71	ND	ND	281.45	ND
187		ND	231.35	33.9	30.78	ND	ND	ND	ND	ND	ND	23,912.34	ND	ND	176.84	ND
188	U1: 1.5-2.0	ND	267.72	30.02	23.95	ND	ND	ND	ND	ND	ND	39,608.73	ND	ND	229.85	ND
189		ND	221.24	27.62	26.24	ND	ND	ND	ND	ND	ND	34,711.80	ND	ND	ND	ND
190	U2: 0.5-1.0	ND	138.97	59.09	32.33	80.38	ND	ND	211.2	ND	ND	48,033.18	564.01	ND	388.74	ND
192		ND	170.78	79.96	30.71	103.83	ND	ND	193.19	ND	ND	48,871.61	1232.11	ND	323.81	ND
193		ND	159.98	71.92	35.18	73.93	ND	ND	216.2	**252.34**	ND	40,860.88	676.3	ND	257.43	ND
194	U2: 2.0-2.5	ND	224.86	35.65	36.61	ND	ND	ND	114.61	ND	ND	27,681.01	539.5	ND	185.26	ND
195		ND	192.85	42.14	32.16	ND	ND	ND	89.07	ND	ND	26,365.13	ND	ND	162.59	ND
196	U3: 0.5-1.0	ND	90.96	83.1	33.4	ND	ND	ND	ND	ND	ND	26,241.97	961.72	ND	618.73	ND
197		ND	66.71	116.93	33.52	ND	ND	ND	117.67	ND	ND	28,373.07	ND	ND	499.91	ND
198	U3: 3.5-4.0	ND	213.42	27.27	25.73	ND	ND	ND	135.86	ND	ND	22,711.42	ND	ND	ND	ND
199		ND	225.83	35.13	17.58	ND	ND	ND	ND	ND	ND	22,667.93	ND	ND	206.2	ND
201	U4: 0.5-1.0	ND	112.86	74.52	39.55	**405.2**	ND	ND	**1301.69**	ND	ND	47,968.51	886.12	ND	506.38	ND
202		ND	94.16	74.38	31.74	**736.33**	ND	ND	**1034.89**	ND	ND	44,987.57	ND	ND	389.18	ND
203	U4: 3.5-4.0	ND	214.97	28.54	31.92	ND	ND	ND	ND	ND	ND	36,186.53	ND	ND	170.96	ND
206		ND	231.82	18.66	27.43	ND	ND	ND	82.36	ND	ND	35,810.13	ND	ND	ND	ND
207	U5: 0.5-1.0	ND	193.86	41.78	34.83	ND	ND	ND	105.13	ND	ND	31,600.59	685.55	319.78	313.49	ND
208		ND	199.79	35.42	34.68	45.5	ND	ND	ND	ND	ND	30,153.32	709.28	ND	283.86	ND
209		ND	168.6	38.03	33.95	ND	ND	ND	168.55	ND	ND	30,540.77	457.07	ND	388.29	ND

TABLE 2: XRF Analytical Results for Metals in Soil
Roger's Garage
KD Investments
LACO Job No.: 5189.04

Reading No	Sample #	Mo	Zr	Sr	Rb	Pb	As	Hg	Zn	Cu	Ni	Fe	Mn	Cr	Ba	Sn
PRG (Residential)		**390**	**NE**	**47,000**	**NE**	**150**	**22**	**23**	**23,000**	**3,100**	**1,600**	**23,000**	**1,800**	**210**	**5,400**	**47,000**
ESL		**40**	**NE**	**NE**	**NE**	**200**	**5.5**	**2.5**	**600**	**230**	**150**	**NE**	**NE**	**58**	**750**	**NE**
Background		**ND**	**104**	**51**	**33**	**68**	**ND**	**ND**	**160**	**ND**	**ND**	**22,870**	**ND**	**ND**	**215**	**ND**
210	U5: 3.5-4.0	ND	254.45	25.74	19.31	ND	ND	ND	ND	ND	ND	21,745.94	ND	433.25	164.72	ND
211		ND	300.79	30.81	25.85	ND	ND	70.43	ND	ND	ND	24,876.82	ND	429.21	153.11	ND
212		ND	241.58	34.04	22.44	ND	ND	ND	ND	ND	ND	20,289.77	ND	ND	165.22	ND
400*	U5: 3.5-4.0	ND	219.5	34.35	20.26	ND	ND	ND	ND	ND	ND	20,168.21	ND	382.88	114.84	ND
213	U6: 0.5-1.0	ND	177	36.43	28.48	66.12	ND	ND	135.3	ND	218.17	21,700.87	ND	ND	177.46	ND
215		ND	208.14	33.56	24.66	ND	ND	ND	158.04	ND	ND	20,564.56	ND	ND	203.27	ND
216		ND	166.1	32.63	22.95	ND	ND	ND	159.67	ND	ND	20,265.36	ND	ND	ND	ND
217	U6: 3.5-4.0	ND	214.47	32.17	19.02	ND	ND	ND	ND	ND	ND	27,506.27	ND	337.71	ND	ND
218		ND	212.64	26.43	16.48	ND	ND	ND	ND	ND	ND	23,595.53	ND	ND	ND	ND
219	U7: 0.5-1.0	ND	81.15	77.23	34.9	**285.21**	ND	ND	**1305.73**	ND	ND	33,793.88	678.47	ND	366.05	ND
220		ND	111.19	89.33	29.93	**376.85**	ND	ND	**1420.44**	**244.66**	416.97	36,126.00	605.92	ND	413.36	ND
221		ND	106.5	81.46	42.62	**338.07**	ND	ND	**1290.34**	221.34	ND	35,533.00	551.03	ND	566.06	ND
401*	U7: 0.5-1.0	ND	58.5	82.1	30.84	**282.52**	ND	ND	**1210.2**	215.58	ND	31,542.70	577.59	ND	397.6	ND
222	U7: 3.5-4.0	ND	227.34	25.57	20.36	ND	ND	ND	ND	ND	249.56	28,437.89	ND	ND	173.87	ND
223		ND	263.67	29.5	23.78	ND	ND	ND	ND	ND	307.69	28,729.42	ND	ND	ND	ND
224	U8: 0.5-1.0	ND	115.49	83.29	41.55	**621.22**	ND	ND	**3090.92**	**346.86**	ND	38,984.79	ND	507.43	530.84	ND
226		ND	65.58	112.27	22.37	**543.48**	ND	ND	**5999.59**	**311.83**	ND	37,139.84	791.08	ND	519.85	ND
227		ND	120.21	98.8	40.76	**1336.44**	ND	ND	**3455.79**	**316.23**	ND	40,788.22	894.45	ND	490.45	ND
409*	U8: 0.5-1.0	ND	54.86	93.59	36.4	**535.25**	ND	ND	**1967.39**	**293.69**	ND	40,633.98	961.45	ND	407.83	ND
410*		ND	65.71	94.12	25.33	**490.87**	ND	ND	**3626.57**	**324.42**	ND	39,248.01	757.78	ND	351.9	ND
228	U8: 3.0-3.5	ND	278.84	40.22	19.09	ND	ND	ND	ND	ND	ND	33,780.03	ND	ND	207.91	ND
229		ND	198.17	29.8	21.59	ND	ND	ND	ND	ND	ND	33,821.18	ND	ND	ND	ND
230	U9: 0.5-1.0	ND	75.85	85.61	25.41	**192.96**	ND	ND	225.2	ND	ND	28,583.68	784.76	ND	378.73	ND
231		ND	100.65	98.9	36.63	**203.7**	ND	ND	236.06	ND	ND	28,981.26	731.51	ND	393.85	ND
232	U9: 2.5-3.0	ND	205.46	29.9	29.6	ND	ND	ND	ND	ND	ND	37,186.48	ND	ND	ND	ND
233		ND	225.05	32.33	19.08	ND	ND	ND	ND	ND	ND	33,800.92	ND	ND	ND	ND
234	U10: 0.5-1.0	ND	100.56	179.92	32.14	83.12	ND	ND	228.74	**402.98**	ND	46,369.41	695.23	ND	374.69	ND
235		ND	92.13	175.1	34.01	122.41	ND	ND	171.23	**243.9**	271.04	33,771.20	825.86	ND	435.79	ND
236	U10: 3.0-3.5	ND	295.08	46.41	15.39	ND	ND	ND	ND	ND	ND	11,094.60	ND	ND	179.31	ND
238		ND	254.41	53.9	19.28	ND	ND	ND	ND	ND	ND	11,796.71	ND	ND	ND	ND
240	U11: 0.5-1.0	ND	82.57	82.93	50.03	**432.85**	ND	ND	274.08	**784.29**	ND	37,010.11	ND	ND	531.53	ND
241		ND	83.8	95.21	31.3	**538.83**	ND	ND	322.1	**1004.43**	ND	44,497.54	726.89	ND	497.78	ND
242	U11: 2.5-3.0	ND	218.06	42.41	17.67	ND	ND	ND	ND	ND	ND	28,136.91	ND	ND	ND	ND
243		ND	273.33	35.68	20.29	ND	ND	ND	112.69	ND	ND	29,536.21	ND	ND	236.8	ND
244	U12: 0.5-1.0	ND	101.13	71.77	28.19	**332.06**	ND	ND	371.23	**999.88**	ND	36,095.77	642.4	ND	513.73	ND
246		ND	37.82	55.09	22.95	144.14	ND	ND	310.87	**830.76**	ND	23,504.83	618.85	ND	284.04	ND
249	U12: 3.0-3.5	ND	311.28	62.06	16.81	ND	ND	ND	ND	ND	ND	14,981.07	ND	ND	207.22	ND
250		ND	305.75	49.31	16.43	ND	ND	ND	ND	ND	ND	14,681.49	ND	ND	156.21	ND
251	U13: 0.5-1.0	ND	87.81	83.24	40.21	**1120.8**	ND	ND	**614.67**	**849.87**	ND	45,967.70	666.65	ND	306.55	ND
252		ND	71.25	87.06	38.16	**803.61**	ND	ND	468.53	**678.3**	269.28	55,430.58	760.11	ND	344.42	ND

TABLE 2: XRF Analytical Results for Metals in Soil
Roger's Garage
KD Investments
LACO Job No.: 5189.04

Reading No	Sample #	Mo	Zr	Sr	Rb	Pb	As	Hg	Zn	Cu	Ni	Fe	Mn	Cr	Ba	Sn
PRG (Residential)		**390**	**NE**	**47,000**	**NE**	**150**	**22**	**23**	**23,000**	**3,100**	**1,600**	**23,000**	**1,800**	**210**	**5,400**	**47,000**
ESL		**40**	**NE**	**NE**	**NE**	**200**	**5.5**	**2.5**	**600**	**230**	**150**	**NE**	**NE**	**58**	**750**	**NE**
Background		**ND**	**104**	**51**	**33**	**68**	**ND**	**ND**	**160**	**ND**	**ND**	**22,870**	**ND**	**ND**	**215**	**ND**
253	U13: 2.5-3.0	ND	232.17	56.31	22.79	ND	ND	ND	ND	ND	ND	18,948.95	ND	381.66	205.21	ND
254		ND	221.2	54.09	16.89	ND	ND	ND	ND	ND	ND	24,676.90	ND	ND	ND	ND
255	U14: 3.0-3.5	ND	216.11	58.82	18.68	ND	ND	ND	ND	ND	ND	48,177.94	ND	487.91	196.9	ND
257		ND	222.89	46.01	14.12	ND	ND	ND	ND	ND	ND	41,167.85	ND	ND	ND	ND
258	U14: 0.5-1.0	ND	97.67	72.15	29.32	**224.58**	ND	ND	**627.64**	**466.06**	ND	50,228.14	ND	ND	247.72	ND
259		ND	104.97	63.64	35.09	**265.06**	ND	ND	**794.75**	**568.31**	ND	50,474.83	ND	ND	356.34	ND
261	U15: 0.5-1.0	ND	109.56	92.41	29.25	**152.98**	ND	ND	529.69	ND	ND	38,033.05	697.6	ND	477.06	ND
262		ND	81.05	97.4	29.33	121.83	ND	ND	**691.91**	**349.09**	ND	26,241.64	ND	ND	279.21	ND
263	U15: 2.0-2.5	ND	104.35	64.41	22.84	**305.09**	ND	ND	505.42	ND	ND	37,565.21	546.57	ND	215.79	ND
264		ND	108.16	79.4	25.42	**239.44**	ND	ND	498.37	210.42	ND	38,025.28	556.75	350.26	305.81	ND
265		ND	168.1	77.55	30.81	**252.26**	ND	ND	574.54	ND	ND	41,001.04	ND	ND	398.94	ND
414*	U15: 2.0-2.5	ND	73.15	69.29	27.82	**197.73**	ND	ND	332.16	ND	ND	44,399.99	780.21	ND	684.29	ND
266	X1: 0.5-1.0	ND	273.25	34.7	30.13	ND	ND	ND	111.6	ND	ND	26,017.38	ND	ND	177.55	ND
267		ND	238.1	39.16	23.55	ND	ND	ND	128.38	ND	317.39	25,566.53	ND	ND	197.35	ND
270		ND	232.85	40.54	22.17	ND	ND	ND	ND	ND	ND	24,275.63	ND	ND	342.05	ND
274	X1: 3.0-3.5	ND	164.32	17.43	17.5	ND	ND	ND	ND	ND	ND	27,667.61	ND	473.13	ND	ND
275		ND	192.95	17.11	11.82	ND	ND	ND	ND	ND	ND	30,028.45	ND	ND	ND	ND
276	X2: 0.5-1.0	ND	193.82	35.53	40.85	**150.24**	ND	ND	202.9	ND	ND	25,291.19	ND	434.95	223.45	ND
277		ND	184.47	40.25	38.61	**174.06**	ND	ND	364.64	ND	ND	24,998.91	ND	ND	331.39	ND
279	X2: 3.5-4.0	ND	238.25	13.43	20.17	ND	ND	ND	ND	ND	ND	29,116.13	ND	ND	150.92	ND
280		ND	222.67	19.67	17.39	ND	ND	ND	ND	ND	ND	26,487.39	ND	ND	ND	ND
March 23, 2005																
286	X3: 0.5-1.0	ND	217.54	38.11	31.94	ND	ND	ND	117.71	ND	ND	20,840.77	ND	ND	ND	ND
287		ND	229.52	43.4	44.63	ND	ND	ND	178.49	ND	ND	18,899.17	ND	ND	260.02	ND
288	X3: 3.5-4.0	ND	269.43	37.8	13.68	ND	ND	ND	ND	ND	ND	23,764.95	ND	ND	211.1	ND
289		ND	298.19	36.63	17.42	ND	ND	ND	ND	ND	ND	24,712.71	ND	ND	ND	ND
290	X4: 0.5-1.0	ND	209.96	38.77	30.97	ND	ND	ND	ND	ND	ND	19,639.60	ND	ND	181.13	ND
291		ND	230.36	46.92	37.1	ND	ND	ND	127.23	ND	ND	23,988.54	ND	ND	255.08	ND
293	X4: 3.5-4.0	ND	241.25	26.04	18.67	ND	ND	ND	ND	ND	ND	33,490.71	ND	ND	185.67	ND
294		ND	217.4	27.59	23.56	ND	ND	ND	ND	ND	ND	32,492.68	ND	ND	ND	ND
297	X5: 0.5-1.0	ND	208.54	49.06	35.28	45.33	ND	ND	224.71	ND	ND	21,037.51	ND	ND	260.27	ND
298		ND	271.27	36.79	28.03	86.31	ND	ND	297.18	ND	ND	24,022.96	474.66	ND	230.76	ND
299	X5: 3.5-4.0	ND	176.5	23.49	24.45	ND	ND	ND	ND	ND	ND	29,565.36	ND	528.97	ND	ND
300		ND	185.36	15.44	15.52	ND	ND	ND	ND	ND	ND	31,730.88	ND	ND	164.91	ND
301		ND	178.69	22.88	20.29	ND	ND	63.18	ND	ND	ND	30,018.16	ND	ND	166.66	ND
407*	X5: 3.5-4.0	ND	140.23	22.91	27.79	ND	ND	ND	ND	ND	ND	32,209.93	ND	399.98	142.32	ND
408*		ND	143.1	24.13	23.02	ND	ND	ND	ND	ND	ND	31,540.50	ND	ND	190.49	ND
302	X6: 0.5-1.0	ND	94.06	80.5	23.25	**980.37**	ND	ND	467.25	**342.59**	ND	31,928.41	559.4	ND	283.99	ND
303		ND	83.48	96.49	34.74	**1063.5**	ND	ND	530.17	**261.68**	ND	41,074.24	547.58	ND	444.55	ND
306	X6: 3.0-3.5	ND	260.85	31.71	23.47	ND	ND	ND	ND	ND	ND	38,528.03	ND	ND	ND	ND

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Roger's Garage
KD Investments
LACO Job No.: 5189.04

Reading No	Sample #	Mo	Zr	Sr	Rb	Pb	As	Hg	Zn	Cu	Ni	Fe	Mn	Cr	Ba	Sn
PRG (Residential)		**390**	**NE**	**47,000**	**NE**	**150**	**22**	**23**	**23,000**	**3,100**	**1,600**	**23,000**	**1,800**	**210**	**5,400**	**47,000**
ESL		**40**	**NE**	**NE**	**NE**	**200**	**5.5**	**2.5**	**600**	**230**	**150**	**NE**	**NE**	**58**	**750**	**NE**
Background		**ND**	**104**	**51**	**33**	**68**	**ND**	**ND**	**160**	**ND**	**ND**	**22,870**	**ND**	**ND**	**215**	**ND**
307		ND	237.55	26.91	19.61	ND	ND	ND	ND	ND	ND	39,757.78	ND	468.65	ND	ND
308		ND	224.76	30.37	20.17	ND	ND	ND	ND	ND	ND	38,517.14	ND	ND	ND	ND
309	X7: 0.5-1.0	ND	77.4	102.23	34.1	**797.17**	ND	ND	347.53	189.44	ND	28,344.53	ND	ND	541.65	ND
310		ND	93.66	83.1	31.19	**611.95**	ND	ND	243.15	ND	ND	28,383.27	547.75	ND	482.77	ND
311	X7: 3.0-3.5	ND	180.44	28.53	20.22	39.79	ND	ND	ND	ND	ND	29,858.67	ND	ND	ND	ND
312		ND	195.54	26.55	17.2	ND	ND	ND	ND	ND	ND	29,737.05	ND	ND	182.82	ND
313	X8: 0.5-1.0	ND	107.47	94.64	30.38	**1346.92**	ND	ND	401.67	222.9	ND	34,406.95	574.26	ND	534.41	ND
314		ND	79.03	74.36	31.1	**1369.81**	ND	ND	421.4	**251.06**	ND	33,910.55	ND	ND	554.55	ND
315	X8: 3.5-4.0	ND	220.8	29.7	12.66	ND	ND	ND	ND	ND	ND	20,711.98	ND	ND	ND	ND
316		ND	254.01	36.92	22.07	ND	ND	ND	ND	ND	ND	20,600.75	ND	ND	154.7	ND
317	X9: 0.5-1.0	ND	115.81	96.03	31.02	**985.44**	ND	ND	**746.97**	ND	ND	47,592.14	ND	ND	209.26	ND
318	X9: 3.5-4.0	ND	94.76	82.82	39.49	**944.37**	ND	ND	**894.34**	ND	ND	42,428.92	544.56	ND	544.19	ND
319		ND	161.41	24.01	15.14	ND	ND	ND	ND	ND	ND	27,680.04	ND	ND	ND	ND
320		ND	200.91	22.47	14.7	ND	ND	ND	ND	ND	ND	29,009.21	ND	ND	203.55	ND
321	X10: 0.5-1.0	ND	93.12	83.16	32.9	**203.77**	ND	ND	306.05	ND	ND	27,476.14	682.04	ND	298.96	ND
322		ND	97.06	98.88	28.95	**242.39**	ND	ND	412.45	ND	ND	30,584.98	ND	ND	359.6	ND
416*	X10: 0.5-1.0	ND	43.4	96.81	36.87	**235.44**	ND	ND	306.15	ND	ND	29,545.70	642.4	ND	300.67	ND
323	X10: 2.0-2.5	ND	206.93	25.94	18.69	ND	ND	ND	ND	ND	ND	44,270.15	ND	472.84	ND	ND
324		ND	217.41	32.12	15.06	ND	ND	ND	ND	ND	ND	50,366.46	ND	ND	209.24	ND
325	X11: 0.5-1.0	ND	75.89	100.42	36.33	**205.04**	ND	ND	218.79	ND	ND	27,631.31	730.78	ND	499.81	ND
326		ND	93.55	96.81	41.65	**171.15**	ND	ND	261.09	ND	ND	24,970.72	590.07	538.13	364.91	ND
327		ND	58.09	105.19	26.48	**247.49**	ND	ND	211.2	ND	ND	26,614.79	690.18	ND	535.93	ND
417*	X11: 0.5-1.0	ND	29.3	107.25	31.01	**292.69**	ND	ND	163.2	ND	ND	29,768.88	537.02	ND	428.68	ND
331	X11: 3.5-4.0	ND	163.58	42.9	18.17	ND	ND	ND	ND	ND	ND	34,907.30	ND	ND	165.8	ND
332		ND	222.51	40.06	15.32	ND	ND	ND	ND	ND	ND	30,928.92	ND	ND	ND	ND
333	X12: 0.5-1.0	ND	154.36	36.95	24.54	ND	ND	ND	ND	ND	ND	23,583.24	ND	ND	243.49	ND
334		ND	164.4	47.17	25.25	ND	ND	ND	ND	ND	ND	24,805.99	ND	383.97	198.97	ND
335		ND	152.8	40.56	23.12	ND	ND	ND	120.76	ND	ND	23,769.35	ND	ND	244.89	ND
418*	X12: 0.5-1.0	ND	105.75	39.59	26.46	ND	ND	ND	ND	ND	ND	21,155.66	ND	ND	198.76	ND
336	X12: 2.5-3.0	ND	275.57	57.83	16.69	ND	ND	ND	ND	ND	ND	15,964.62	ND	ND	269.14	ND
337		ND	246.74	49.99	15.56	ND	ND	ND	ND	ND	ND	22,458.71	ND	ND	ND	ND
338	Y1: 0.5-1.0	ND	229.99	38.88	29.22	ND	ND	ND	ND	ND	ND	21,180.55	ND	ND	ND	ND
339		ND	245.51	38.14	27.39	ND	ND	ND	ND	ND	ND	20,457.55	ND	ND	ND	ND
340	Y1: 3.0-3.5	ND	207.05	21.44	21.02	ND	ND	ND	ND	ND	ND	19,533.28	ND	ND	ND	ND
343		ND	233.55	17.16	26.61	ND	ND	ND	ND	ND	ND	21,776.40	ND	ND	175.29	ND
344	Y2: 0.5-1.0	ND	194.99	37.05	23.21	ND	ND	ND	ND	ND	ND	22,592.94	ND	ND	ND	ND
345		ND	255.92	35.24	19.96	ND	ND	ND	108.38	ND	ND	24,575.64	ND	ND	156.42	ND
346	Y2: 3.5-4.0	ND	197.42	16.25	9.32	ND	ND	ND	ND	ND	ND	22,143.81	ND	ND	ND	ND
347		ND	157.62	18.37	18.72	ND	31.73	ND	ND	ND	ND	25,896.54	514.11	ND	ND	ND

TABLE 2: XRF Analytical Results for Metals in Soil
Roger's Garage
KD Investments
LACO Job No.: 5189.04

Reading No	Sample #	Mo	Zr	Sr	Rb	Pb	As	Hg	Zn	Cu	Ni	Fe	Mn	Cr	Ba	Sn
PRG (Residential)		390	NE	47,000	NE	150	22	23	23,000	3,100	1,600	23,000	1,800	210	5,400	47,000
ESL		40	NE	NE	NE	200	5.5	2.5	600	230	150	NE	NE	58	750	NE
Background		ND	104	51	33	68	ND	ND	160	ND	ND	22,870	ND	ND	215	ND
348		ND	182.64	13.86	10.62	ND	ND	ND	ND	ND	ND	22,427.95	ND	ND	ND	ND
349	Y3: 0.5-1.0	ND	197.48	42.12	31.15	ND	ND	ND	217.31	ND	ND	20,739.50	ND	ND	316.07	ND
350		ND	223.69	33.48	26.74	ND	ND	ND	121.17	ND	ND	21,124.07	ND	ND	178.63	ND
351	Y3: 3.0-3.5	ND	260.79	26.8	20.43	ND	ND	ND	ND	ND	ND	31,197.78	ND	ND	ND	ND
352		ND	187.94	26.23	24.76	ND	ND	ND	ND	ND	ND	28,105.89	ND	ND	221.49	ND
353	Y5: 0.5-1.0	ND	188.84	37.86	26.5	ND	ND	ND	ND	ND	ND	17,017.72	ND	ND	269.25	ND
354		ND	177.93	41.65	38.95	ND	ND	ND	ND	ND	ND	17,348.23	ND	ND	278.28	ND
355	Y5: 3.0-3.5	ND	222.5	23.38	17.75	ND	ND	ND	ND	ND	ND	29,169.20	ND	ND	ND	ND
356		ND	206.17	31.04	18.83	ND	ND	ND	ND	ND	ND	30,942.98	ND	416.32	ND	ND
357		ND	233.2	22.48	15.36	ND	ND	ND	ND	ND	ND	33,537.53	ND	481.5	245.7	ND
358	Y6: 0.5-1.0	ND	191.34	37.99	29.67	ND	ND	ND	96.19	ND	ND	20,196.02	ND	ND	239.61	ND
359		ND	176.09	32.62	24.64	ND	ND	ND	ND	ND	ND	19,161.40	ND	ND	ND	ND
360	Y6: 3.5-4.0	ND	240.8	30.36	26	ND	ND	ND	ND	ND	ND	30,573.79	ND	456.27	183.75	ND
361		ND	258.73	24.71	14.27	ND	ND	ND	ND	ND	ND	35,173.43	ND	ND	ND	ND
362		ND	229.05	22.16	15.93	ND	ND	ND	ND	ND	281.85	32,329.94	ND	ND	ND	ND
363	Y7: 0.5-1.0	ND	132.11	76.69	27.14	**672.41**	ND	ND	**3847.85**	222.89	327.6	59,579.46	ND	ND	352.96	ND
364		ND	247.25	67.02	12.22	**760.9**	ND	ND	**2156.79**	ND	310.84	38,045.12	ND	ND	325.27	ND
365	Y7: 3.5-4.0	ND	218.58	23.79	20.34	ND	ND	ND	ND	ND	ND	30,182.29	ND	ND	ND	ND
366		ND	188.44	21.61	16.96	ND	ND	ND	ND	ND	ND	26,684.11	ND	ND	202.99	ND
367	Y8: 0.5-1.0	ND	85.83	92.21	33.29	**932.69**	ND	ND	**824.66**	ND	ND	48,656.66	824.05	ND	473.99	ND
368		ND	56.14	59.76	21.82	**641.27**	ND	ND	589.46	**317.04**	ND	36,734.55	ND	ND	266.49	ND
420*	Y8: 0.5-1.0	ND	76.53	90.96	34.72	**1149.49**	ND	ND	**731.16**	**235.24**	ND	48,639.67	700.1	ND	424.65	ND
369	Y8: 3.0-3.5	ND	273.42	52.86	11.46	ND	ND	ND	ND	ND	ND	16,856.07	ND	394.31	ND	ND
370		ND	216.97	40.91	13.82	ND	ND	ND	ND	ND	ND	20,922.71	ND	ND	159.55	ND
373	Y9: 0.5-1.0	ND	186.72	40.07	21.61	83.55	ND	ND	84.49	ND	ND	23,876.36	ND	ND	264.16	ND
374		ND	218.8	39.11	34.68	67.02	ND	ND	177.46	ND	252.9	26,957.32	ND	ND	212.22	ND
375	Y9: 3.0-3.5	ND	197.8	28.97	14.84	ND	ND	ND	104.88	ND	ND	32,215.61	ND	490.1	276.23	ND
376		ND	217.5	35.72	14.13	ND	ND	ND	ND	ND	ND	24,202.24	ND	ND	194.46	ND
377	Y10: 0.5-1.0	ND	141.43	64.08	32.18	**200.13**	ND	ND	349.2	**607.89**	ND	34,696.84	603.06	ND	317.02	ND
378		ND	135.55	66.3	29.51	**217.76**	ND	ND	380.61	**487.53**	ND	30,906.82	494.19	ND	434.27	ND
379	Y10: 2.5-3.0	ND	181.02	30.46	16.26	ND	ND	ND	ND	ND	ND	31,538.17	ND	ND	ND	ND
380		ND	181.85	27.64	17.99	ND	ND	ND	106.64	ND	ND	36,041.96	ND	ND	213.88	ND
381	Y11: 0.5-1.0	ND	141.14	77.1	31.61	140.4	ND	ND	172.95	ND	ND	33,372.54	ND	ND	285.95	ND
382		ND	137.44	86.72	32.46	**198.93**	ND	ND	272.6	ND	ND	31,629.03	705.65	ND	357.83	ND
383		ND	136.22	78.52	27.2	**171.13**	ND	ND	225.26	ND	ND	34,424.61	481.91	ND	400.86	ND
384	Y11: 3.0-3.5	ND	170.56	27.47	11.33	ND	ND	ND	ND	ND	ND	28,383.46	ND	ND	ND	ND
385		ND	186.66	39.42	18.1	ND	ND	ND	ND	ND	ND	28,773.48	ND	ND	173.77	ND

TABLE 2: XRF Analytical Results for Metals in Soil
Roger's Garage
KD Investments
LACO Job No.: 5189.04

Reading No	Sample #	Mo	Zr	Sr	Rb	Pb	As	Hg	Zn	Cu	Ni	Fe	Mn	Cr	Ba	Sn
PRG (Residential)		390	NE	47,000	NE	150	22	23	23,000	3,100	1,600	23,000	1,800	210	5,400	47,000
ESL		40	NE	NE	NE	200	5.5	2.5	600	230	150	NE	NE	58	750	NE
Background		ND	104	51	33	68	ND	ND	160	ND	ND	22,870	ND	ND	215	ND
386	Y12: 0.5-1.0	ND	93.53	45.52	22.38	**158.36**	ND	ND	**738.13**	**927.53**	ND	35,269.12	ND	ND	ND	ND
387		ND	102.28	38.79	20.7	**323.75**	ND	ND	**722.94**	**1489.36**	ND	33,765.82	ND	ND	264.82	ND
388	Y12: 3.5-4.0	ND	231.42	46.45	21.61	ND	ND	ND	ND	ND	ND	27,524.92	ND	ND	162.73	ND
389		ND	242.02	35.13	13.65	ND	ND	ND	ND	ND	ND	29,074.56	ND	ND	163.77	ND
390	Y13: 0.5-1.0	ND	133.79	38.85	31.83	ND	ND	ND	111.47	ND	ND	26,145.58	ND	ND	172.24	ND
392		ND	125.74	37.35	31.66	ND	ND	ND	178.23	ND	ND	26,858.86	ND	ND	207.65	ND
394	Y13: 3.0-3.5	ND	203.22	39.33	19.46	ND	ND	ND	ND	ND	ND	35,633.84	ND	ND	ND	ND
395		ND	205.61	37.53	21.11	ND	ND	ND	ND	ND	ND	42,973.42	ND	ND	233.93	ND
396	Y14: 0.5-1.0	ND	106.36	88.42	28.44	ND	ND	ND	149.05	ND	ND	28,962.97	1041.32	ND	392.56	ND
397		ND	121.41	112.52	35.82	47.8	ND	ND	144.61	ND	ND	26,982.03	858.78	ND	490.61	ND
398	Y14: 3.0-3.5	ND	160.45	35.57	22.43	ND	ND	ND	ND	ND	ND	30,072.13	ND	ND	ND	ND
399		ND	181.05	37.97	16.25	ND	ND	ND	ND	ND	ND	28,911.59	ND	ND	ND	ND
400	Z1: 0.5-1.0	ND	190.5	29.83	32.71	ND	ND	ND	131.26	ND	ND	25,026.38	ND	ND	251.07	ND
401		ND	220.74	39.22	29.55	ND	ND	ND	153.48	ND	ND	25,723.00	ND	ND	ND	ND
402	Z1: 3.5-4.0	ND	232.71	23.64	30.48	ND	ND	ND	ND	ND	ND	49,241.05	ND	ND	284.68	ND
403		ND	242.65	29.87	30.63	ND	ND	ND	ND	ND	ND	50,959.11	ND	ND	243.92	ND
404	Z2: 0.5-1.0	ND	182.86	34.91	40.22	ND	ND	ND	ND	ND	ND	19,413.75	ND	390.29	ND	ND
405		ND	193.97	37.41	44.46	ND	ND	ND	105.57	ND	ND	19,539.50	ND	ND	213.84	ND
427*	Z2: 0.5-1.0	ND	164.25	49.32	42.04	ND	ND	ND	ND	ND	ND	20,253.63	ND	ND	270.19	ND
406	Z2: 3.5-4.0	ND	142.13	11.78	16.84	ND	ND	ND	100.94	ND	ND	11,790.91	ND	ND	ND	ND
407		ND	141.98	8.69	15.18	ND	ND	ND	ND	ND	ND	14,101.52	ND	434.08	ND	ND
409		ND	143.7	14.69	21.88	ND	ND	ND	ND	ND	ND	12,716.87	ND	ND	195.21	ND
426*	Z2: 3.5-4.0	ND	103.12	20.26	15.95	ND	ND	ND	ND	ND	ND	14,703.66	ND	346.46	138.51	ND
412	Z3: 0.5-1.0	ND	98.5	101.62	35.65	118.22	ND	ND	351.38	ND	ND	41,784.75	ND	ND	280.29	ND
413		ND	125.4	93.14	37.9	**209.28**	ND	ND	538.78	ND	ND	37,929.44	650.88	ND	451.99	ND
414	Z3: 1.5-2.0	ND	221.23	37.35	17.4	ND	ND	ND	111.94	ND	ND	22,363.55	ND	ND	ND	ND
416		ND	222.94	49.46	28.57	ND	ND	ND	ND	ND	ND	22,383.38	ND	ND	225.12	ND
422	Z4: 0.5-1.0	ND	251.32	41.88	33.4	ND	ND	ND	ND	ND	ND	20,979.06	486.11	ND	196.32	ND
423		ND	219.23	35.92	41.03	ND	ND	ND	ND	ND	ND	21,962.42	ND	ND	243.94	ND
424	Z4: 3.0-3.5	ND	200.26	19.2	15.6	ND	ND	ND	ND	ND	ND	28,486.54	ND	ND	153.49	ND
425		ND	194.4	16.85	24.58	ND	ND	ND	ND	ND	ND	27,100.73	ND	ND	ND	ND
426	Z5: 0.5-1.0	ND	225.87	37.28	44.09	36.89	ND	ND	96.86	ND	ND	17,441.57	ND	ND	242.4	ND
427		ND	193.45	42.93	35.99	ND	ND	ND	ND	ND	ND	17,463.61	ND	ND	ND	ND
428	Z5: 3.5-4.0	ND	242.37	40.94	18.4	ND	ND	ND	ND	ND	ND	19,451.20	ND	ND	ND	ND
429		ND	245.99	44.79	26	ND	ND	ND	ND	ND	ND	20,623.00	ND	ND	ND	ND
430	Z6: 0.5-1.0	ND	251.6	31.89	29.86	ND	ND	ND	ND	ND	ND	23,377.44	ND	ND	194.86	ND
431		ND	183.16	36.31	36.58	ND	ND	ND	ND	ND	ND	24,383.66	ND	ND	191.54	ND
433	Z6: 3.5-4.0	ND	251.19	25	20.1	ND	ND	ND	ND	ND	ND	25,223.74	ND	ND	ND	ND

TABLE 2: XRF Analytical Results for Metals in Soil
Roger's Garage
KD Investments
LACO Job No.: 5189.04

Reading No	Sample #	Mo	Zr	Sr	Rb	Pb	As	Hg	Zn	Cu	Ni	Fe	Mn	Cr	Ba	Sn
PRG (Residential)		**390**	**NE**	**47,000**	**NE**	**150**	**22**	**23**	**23,000**	**3,100**	**1,600**	**23,000**	**1,800**	**210**	**5,400**	**47,000**
ESL		**40**	**NE**	**NE**	**NE**	**200**	**5.5**	**2.5**	**600**	**230**	**150**	**NE**	**NE**	**58**	**750**	**NE**
Background		**ND**	**104**	**51**	**33**	**68**	**ND**	**ND**	**160**	**ND**	**ND**	**22,870**	**ND**	**ND**	**215**	**ND**
434		ND	251.31	38.5	16.05	ND	ND	ND	ND	ND	ND	24,089.08	ND	424.8	211.04	ND
435		ND	229.27	28.89	22.32	ND	ND	ND	ND	ND	ND	23,797.17	ND	ND	176.74	ND
436	Z7: 0.5-1.0	ND	139.52	62.17	26.46	**1368.91**	ND	ND	**631.36**	**1135.03**	ND	40,648.14	ND	453.18	235.73	ND
438		ND	148.87	64.95	39.94	**1138.09**	ND	ND	546.27	**872.6**	ND	35,055.89	574.27	ND	284.01	ND
425*	Z7: 0.5-1.0	ND	108.29	87.06	29.86	**1341.52**	ND	ND	**713.6**	**1053.9**	ND	45,062.65	ND	ND	257.7	ND
439	Z7: 2.5-3.0	ND	218.03	35.77	12.25	ND	ND	ND	ND	ND	ND	20,944.83	ND	ND	204.29	ND
440		ND	250.7	29.89	10.97	ND	ND	ND	ND	ND	ND	17,762.71	ND	ND	210.15	ND
441	Z8: 0.5-1.0	ND	155.64	29.72	27.08	ND	ND	ND	100.96	ND	ND	19,608.53	ND	ND	177.86	ND
442		ND	175.96	38.56	27.97	ND	ND	ND	ND	ND	ND	19,096.52	ND	ND	172.68	ND
443	Z8: 3.5-4.0	ND	229.82	36.7	15.24	ND	ND	ND	ND	ND	ND	19,382.30	ND	497.34	235.44	ND
444		ND	246.7	41.11	16.61	ND	ND	ND	ND	ND	ND	19,736.02	ND	ND	ND	ND
422*	Z8: 3.5-4.0	ND	140.18	40.83	15.84	ND	ND	ND	ND	ND	ND	22,207.14	ND	ND	145.05	ND
447	Z9: 0.5-1.0	ND	215.45	35.67	16.44	ND	ND	ND	ND	ND	ND	16,994.62	ND	ND	ND	ND
448		ND	189.6	37.29	24.27	ND	ND	ND	ND	ND	ND	15,948.47	ND	ND	ND	ND
449	Z9: 3.5-4.0	ND	220.51	36.18	15.48	ND	ND	ND	ND	ND	ND	22,201.18	ND	358.87	226.57	ND
450		ND	240.3	33.08	12.48	ND	ND	ND	ND	ND	ND	19,691.09	ND	ND	241.25	ND
451	Z10: 0.5-1.0	ND	209.33	41.54	16.3	ND	ND	ND	ND	ND	ND	22,028.09	ND	ND	ND	ND
452		ND	208.45	43.32	18.67	ND	ND	ND	ND	ND	ND	21,598.87	ND	ND	191.13	ND
453	Z10: 3.0-3.5	ND	223.05	33.89	18.3	ND	ND	ND	ND	ND	ND	25,785.60	ND	ND	225.99	ND
454		ND	190.84	31.8	17.35	ND	ND	ND	ND	ND	ND	28,536.85	ND	ND	161.83	ND
456	Z11: 0.5-1.0	ND	234.35	29.95	16.17	ND	ND	ND	ND	ND	ND	13,492.82	ND	ND	ND	ND
458		ND	275.79	45.3	15.6	ND	ND	ND	ND	ND	ND	17,573.20	392.46	ND	ND	ND
460	Z11: 3.5-4.0	ND	150.7	31.35	12.11	ND	ND	ND	ND	ND	ND	29,270.84	ND	ND	ND	ND
461		ND	247.64	41.55	16.06	ND	ND	ND	ND	ND	ND	36,725.25	ND	ND	249.41	ND
462	Z12: 0.5-1.0	ND	111.81	91.36	30.7	**337.29**	ND	ND	**622.42**	ND	ND	33,520.27	877.99	ND	645.21	ND
463		ND	69.07	72.04	24.23	**269.14**	ND	ND	424.49	ND	ND	35,509.61	ND	ND	ND	ND
464		ND	88.22	79.93	32.09	**240.26**	ND	ND	408.23	ND	ND	31,495.51	527.65	ND	360.07	ND
466	Z12: 3.0-3.5	ND	239.72	42.18	16.41	ND	ND	ND	ND	ND	ND	39,366.47	ND	ND	239.15	ND
467		ND	255.6	38.9	22.56	ND	ND	ND	ND	ND	ND	44,261.28	ND	287.6	ND	ND
468	Z13: 0.5-1.0	ND	198.47	43.32	23.97	ND	ND	ND	ND	ND	ND	25,380.55	ND	ND	233.93	ND
469		ND	204.68	48.28	21.82	ND	ND	ND	ND	ND	ND	24,836.03	ND	ND	409.39	ND
March 28, 2005																
223	Z13: 2.5-3.0	<9.8	152.81	47.31	21.02	<52.4	<40.5	<74.2	<168.2	<230.5	<402.0	33,643.80	<803.2	<745.1	<139.2	<326.5
224		ND	186.17	38.05	25.22	ND	ND	ND	ND	ND	ND	41,232.40	ND	ND	ND	ND
226	V1: 0.5-1.0	ND	175.38	39.1	39.18	ND	ND	ND	ND	ND	ND	23,956.15	ND	ND	210.43	ND
227		ND	167.67	50.79	30.23	ND	ND	ND	ND	ND	ND	25,472.50	ND	ND	215.84	ND
228	V1: 3.5-4.0	ND	59.24	ND	ND	ND	ND	ND	ND	ND	ND	9,319.04	ND	ND	ND	ND
229		ND	89.02	ND	ND	ND	ND	ND	ND	ND	ND	10,232.66	ND	ND	ND	ND

TABLE 2: XRF Analytical Results for Metals in Soil
Roger's Garage
KD Investments
LACO Job No.: 5189.04

Reading No	Sample #	Mo	Zr	Sr	Rb	Pb	As	Hg	Zn	Cu	Ni	Fe	Mn	Cr	Ba	Sn
PRG (Residential)		**390**	**NE**	**47,000**	**NE**	**150**	**22**	**23**	**23,000**	**3,100**	**1,600**	**23,000**	**1,800**	**210**	**5,400**	**47,000**
ESL		**40**	**NE**	**NE**	**NE**	**200**	**5.5**	**2.5**	**600**	**230**	**150**	**NE**	**NE**	**58**	**750**	**NE**
Background		**ND**	**104**	**51**	**33**	**68**	**ND**	**ND**	**160**	**ND**	**ND**	**22,870**	**ND**	**ND**	**215**	**ND**
230	V2: 0.5-1.0	ND	170.9	38.75	32.18	ND	ND	ND	ND	ND	ND	22,723.11	ND	ND	186.36	ND
231		ND	201.07	29.33	33.34	ND	ND	ND	ND	ND	ND	22,746.88	ND	ND	200.77	ND
232	V2: 3.0-3.5	ND	121.94	ND	ND	ND	ND	ND	ND	ND	ND	31,192.81	ND	ND	ND	ND
233		ND	151.99	ND	ND	ND	ND	ND	ND	ND	ND	27,011.34	ND	ND	ND	ND
236		ND	91.01	ND	ND	ND	ND	ND	ND	ND	ND	24,181.57	ND	ND	ND	ND
237	V3: 0.5-1.0	ND	149.68	87.34	27.35	**353.42**	ND	ND	499.19	**293.68**	ND	36,785.33	ND	ND	256.58	ND
239		ND	107.31	74.31	30.89	**303.88**	ND	ND	292.7	**289.43**	ND	39,977.46	ND	ND	463.79	ND
242	V3: 3.0-3.5	ND	150.28	29.87	27.11	ND	ND	ND	ND	ND	ND	28,340.94	ND	ND	ND	ND
244		ND	158.25	ND	ND	ND	ND	ND	ND	ND	ND	28,853.42	ND	ND	ND	ND
382*	V3: 3.0-3.5	ND	213.47	42.18	17.64	ND	ND	ND	ND	ND	ND	31,909.13	ND	ND	159.28	ND
246	V4: 0.5-1.0	ND	112.68	85.75	ND	ND	ND	ND	274.63	ND	ND	32,711.85	ND	ND	638.56	ND
247		ND	83.54	96.82	39.7	**151.78**	ND	ND	310.91	ND	ND	34,500.04	ND	ND	720.06	ND
249	V4: 3.0-3.5	ND	183.53	27.28	17.89	ND	ND	ND	ND	ND	ND	18,733.39	ND	ND	ND	ND
251		ND	183.06	44.86	31.02	ND	ND	ND	ND	ND	ND	20,768.86	ND	ND	144.81	ND
256	V5: 0.5-1.0	ND	71.6	68.57	ND	**797.98**	ND	ND	**1568.25**	ND	ND	44,669.04	ND	ND	513.45	ND
259		ND	89.35	100.69	27.34	**790.1**	ND	ND	**1593.04**	**514.81**	ND	41,937.59	ND	ND	341.26	ND
260	V5: 3.0-3.5	ND	206.69	42.85	20.56	ND	ND	ND	ND	ND	ND	18,594.57	ND	ND	133.89	ND
262		ND	150.23	34.25	21.64	ND	ND	ND	ND	ND	ND	14,592.76	ND	ND	143.02	ND
263	V6: 0.5-1.0	ND	141.47	51.36	18.14	118.56	ND	ND	ND	ND	ND	27,707.14	ND	ND	295.65	ND
264		<9.1	132.24	59.37	47.11	102.5	<66.4	<62.4	<172.2	<190.0	<366.6	28,516.47	<780.6	<691.1	190.58	<327.9
267	V6: 2.5-3.0	ND	184.37	29.32	19.6	ND	ND	ND	ND	ND	ND	19,605.37	ND	ND	211.55	ND
268		ND	180.43	45.8	ND	ND	ND	ND	ND	ND	ND	17,886.47	ND	ND	146.82	ND
269	V7: 0.5-1.0	ND	53.73	90.58	35.37	81.36	ND	ND	ND	ND	ND	29,316.62	ND	ND	348.27	ND
270		ND	55.09	109.64	35.49	88.47	ND	ND	ND	**274.63**	ND	29,777.39	ND	ND	341.58	ND
271	V7: 2.5-3.0	ND	165.58	30.26	24.56	ND	ND	ND	ND	ND	ND	28,671.85	ND	ND	167.87	ND
272		ND	181.32	29.15	24.85	ND	ND	ND	ND	ND	ND	31,969.90	ND	ND	ND	ND
273	V8: 0.5-1.0	ND	56.26	108.92	27.1	**200.8**	ND	ND	569.54	**328.37**	ND	35,281.04	ND	ND	415.97	ND
274		ND	68.56	111.49	32.53	**260.19**	ND	ND	**910.65**	ND	ND	39,692.45	ND	ND	500.84	ND
275	V9: 0.5-1.0	ND	77.83	108.69	38.48	145.74	ND	ND	327.22	ND	ND	31,738.85	ND	ND	306.94	ND
276		ND	62.83	110.57	23.08	**156.29**	ND	ND	278.04	ND	ND	30,856.50	1205.15	ND	309.38	ND
277	V9: 2.0-2.5	ND	181.9	55.57	ND	ND	ND	ND	ND	ND	ND	19,835.35	ND	ND	171.45	ND
278		ND	173.68	31.95	17.65	ND	ND	ND	ND	ND	ND	22,067.82	ND	ND	184.83	ND
279	V10: 0.5-1.0	ND	40.08	110.18	45.66	**280.08**	ND	ND	361.28	ND	ND	40,098.51	ND	ND	532.18	ND
280		ND	49.9	104.06	22.73	**220.56**	ND	ND	261.95	ND	ND	38,865.40	ND	ND	576.17	ND
281	V10: 3.0-3.5	ND	159.71	51.82	ND	ND	ND	ND	ND	ND	ND	21,687.63	ND	ND	ND	ND
282		ND	196.84	45.37	22.94	ND	ND	ND	ND	ND	ND	23,181.19	ND	ND	145.06	ND
283	V11: 0.5-1.0	ND	74.75	101.85	42.65	**362.1**	ND	ND	464.44	**891.57**	ND	37,781.57	ND	ND	368.54	ND

TABLE 2: XRF Analytical Results for Metals in Soil
Roger's Garage
KD Investments
LACO Job No.: 5189.04

Reading No	Sample #	Mo	Zr	Sr	Rb	Pb	As	Hg	Zn	Cu	Ni	Fe	Mn	Cr	Ba	Sn
PRG (Residential)		**390**	**NE**	**47,000**	**NE**	**150**	**22**	**23**	**23,000**	**3,100**	**1,600**	**23,000**	**1,800**	**210**	**5,400**	**47,000**
ESL		**40**	**NE**	**NE**	**NE**	**200**	**5.5**	**2.5**	**600**	**230**	**150**	**NE**	**NE**	**58**	**750**	**NE**
Background		**ND**	**104**	**51**	**33**	**68**	**ND**	**ND**	**160**	**ND**	**ND**	**22,870**	**ND**	**ND**	**215**	**ND**
284		ND	87.99	99.45	46.54	**400.72**	ND	ND	381.2	**494.61**	ND	39,539.95	ND	ND	350.85	ND
286	V11: 3.0-3.5	ND	211.05	56.1	ND	ND	ND	ND	ND	ND	ND	15,932.03	ND	ND	126.89	ND
288		ND	234.18	54.04	21.89	ND	ND	ND	ND	ND	ND	15,580.14	ND	ND	ND	ND
289	V12: 0.5-1.0	ND	125.22	91.95	45.5	**258.86**	ND	ND	**716.88**	ND	ND	30,656.36	ND	ND	234.74	ND
290		ND	137.99	112.1	43.17	**231.32**	ND	ND	**733.85**	ND	ND	31,098.77	ND	ND	341.55	ND
294	V14: 0.5-1.0	ND	84.87	116.62	40.51	**1798.24**	ND	ND	**2779.51**	**3520.09**	ND	68,187.88	ND	ND	363.05	ND
295		ND	56.07	115.82	26.14	**1405.79**	ND	ND	**2329.29**	**2919.32**	ND	56,917.56	ND	ND	191.9	ND
299	V14: 2.5-3.0	ND	219.84	66.4	ND	ND	ND	ND	ND	ND	ND	30,112.31	ND	ND	ND	ND
300		ND	143.85	35.41	18.07	ND	ND	ND	ND	ND	ND	25,654.48	ND	ND	162.33	ND
302	V15: 3.0-3.5	ND	172.02	39.97	19.67	ND	ND	ND	ND	ND	ND	30,401.45	ND	ND	193.93	ND
303		ND	140.3	62.15	20.75	ND	ND	ND	ND	ND	ND	30,070.45	ND	ND	ND	ND
304	V15: 0.5-1.0	ND	100.11	38.72	32.81	**230.0**	ND	ND	ND	ND	ND	59,841.09	ND	ND	248.6	ND
305		ND	112.14	49.6	ND	**260.62**	ND	ND	ND	ND	ND	62,213.41	ND	ND	266.48	ND
307	W1:0.5-1.0	ND	167.51	48.78	32.74	ND	ND	ND	**634.29**	ND	ND	22,966.12	ND	ND	206.19	ND
308		ND	133.45	33.86	34.82	ND	ND	ND	**645.04**	ND	ND	22,501.00	ND	ND	308.28	ND
309	W1: 2.5-3.0	ND	136.34	29.3	27.5	ND	ND	ND	ND	ND	ND	26,078.19	ND	ND	148.75	ND
310		ND	167.87	ND	28.33	ND	ND	ND	ND	ND	ND	23,130.68	ND	ND	167.84	ND
311	W2: 0.5-1.0	ND	154.45	61.76	53.63	**329.16**	ND	ND	347.54	ND	ND	24,015.93	ND	ND	381.93	ND
312		ND	149.44	54.88	32.91	**975.01**	ND	ND	441.58	ND	ND	25,383.47	ND	ND	215.19	ND
313	W2: 3.5-4.0	11.47	68.02	34.76	ND	ND	ND	ND	ND	ND	ND	26,447.63	ND	ND	123.68	ND
314		ND	93.35	ND	ND	ND	ND	ND	ND	ND	ND	27,352.95	ND	ND	ND	ND
317	W3: 0.5-1.0	ND	141.01	40.6	29.86	ND	ND	ND	ND	ND	ND	20,587.02	ND	ND	ND	ND
319		ND	173.13	50.14	42.1	ND	ND	ND	ND	ND	ND	21,094.84	ND	ND	216.37	ND
320	W3: 2.5-3.0	ND	151.62	ND	30.55	ND	ND	ND	ND	ND	ND	44,785.71	ND	ND	137.62	ND
321		ND	120.88	35.38	23.71	ND	ND	ND	ND	ND	ND	42,986.97	ND	ND	ND	ND
324	W4: 0.5-1.0	ND	87.45	82.93	42.99	**290.56**	ND	ND	310.71	ND	ND	32,983.41	ND	ND	240.01	ND
325		ND	100.46	56.4	33.53	**344.95**	ND	ND	329.84	ND	ND	31,852.39	ND	ND	215.17	ND
326	W4: 3.0-3.5	ND	134.34	ND	ND	ND	ND	ND	ND	ND	ND	34,224.72	ND	ND	ND	ND
328		ND	183.93	35.47	ND	ND	ND	ND	ND	ND	ND	26,327.27	ND	ND	160.7	ND
329	W5: 0.5-1.0	ND	112.86	74.31	27.63	**1019.89**	ND	ND	**1006.72**	ND	ND	32,775.04	ND	ND	409.8	ND
330		ND	129.77	110.11	31.91	**872.27**	ND	ND	**1030.66**	ND	ND	32,226.37	ND	ND	625.82	ND
332	W5: 3.5-4.0	ND	190.02	47.44	ND	ND	ND	ND	ND	ND	ND	28,055.90	ND	ND	ND	ND
333		ND	180.79	25.67	19.61	ND	ND	ND	ND	ND	ND	26,215.20	ND	ND	189.66	ND
334	W6: 0.5-1.0	ND	68.28	98.43	25.92	**271.32**	ND	ND	366.23	ND	ND	33,082.25	ND	ND	382.51	ND
335		ND	72.07	87.2	44.94	**201.29**	ND	ND	299.96	ND	ND	28,485.86	ND	ND	419.79	ND
336	W6: 3.0-3.5	ND	150.07	36.4	39.94	ND	ND	ND	ND	ND	ND	27,156.07	ND	ND	262.96	ND

TABLE 2: XRF Analytical Results for Metals in Soil
Roger's Garage
KD Investments
LACO Job No.: 5189.04

Reading No	Sample #	Mo	Zr	Sr	Rb	Pb	As	Hg	Zn	Cu	Ni	Fe	Mn	Cr	Ba	Sn
PRG (Residential)		**390**	**NE**	**47,000**	**NE**	**150**	**22**	**23**	**23,000**	**3,100**	**1,600**	**23,000**	**1,800**	**210**	**5,400**	**47,000**
ESL		**40**	**NE**	**NE**	**NE**	**200**	**5.5**	**2.5**	**600**	**230**	**150**	**NE**	**NE**	**58**	**750**	**NE**
Background		**ND**	**104**	**51**	**33**	**68**	**ND**	**ND**	**160**	**ND**	**ND**	**22,870**	**ND**	**ND**	**215**	**ND**
337		ND	170.72	ND	33.27	ND	ND	ND	ND	ND	ND	25,096.76	ND	ND	148.32	ND
338	W7: 0.5-1.0	ND	62.14	113.02	21.54	ND	ND	ND	ND	ND	ND	25,710.60	ND	ND	392.15	ND
342		ND	59.54	85.55	34.87	ND	ND	ND	ND	ND	ND	27,406.39	1067.64	ND	346	ND
344	W7: 3.5-4.0	ND	151.68	43.63	ND	ND	ND	ND	ND	ND	ND	28,981.42	ND	ND	141.19	ND
346		ND	150.65	38.84	ND	ND	ND	ND	ND	ND	ND	28,813.01	ND	ND	ND	ND
349	W8: 0.5-1.0	ND	56.11	90.42	39.79	100.59	ND	ND	ND	ND	ND	27,837.77	ND	ND	353.27	ND
350		ND	60.97	99.9	36.48	ND	ND	ND	ND	ND	ND	27,819.87	ND	ND	365.59	ND
351	W8: 2.5-3.0	ND	153.28	40.87	25.83	ND	ND	ND	ND	ND	ND	30,925.43	ND	ND	143.41	ND
352		ND	146.17	46.07	21.52	ND	ND	ND	ND	ND	ND	32,618.14	ND	ND	ND	ND
353	W9: 0.5-1.0	ND	94.42	120.15	45.97	**279.89**	ND	ND	312.95	ND	ND	35,338.57	ND	ND	323.93	ND
354		ND	89.88	119.73	36.14	**284.99**	ND	ND	446.05	**633.84**	ND	35,582.02	ND	ND	341.76	ND
356	W9: 3.0-3.5	ND	175.41	26.39	ND	ND	ND	ND	ND	ND	470.8	43,353.52	ND	ND	ND	ND
357		ND	148.91	33.87	31.94	ND	ND	ND	ND	ND	ND	44,509.20	ND	ND	ND	ND
358	W10: 0.5-1.0	ND	91.57	58.56	39.36	**2327.35**	ND	ND	**3298.18**	**885.53**	ND	118,584.54	ND	ND	303.2	ND
361		ND	85.94	115.91	39.33	**2494.04**	ND	ND	**3216.13**	**712.77**	ND	131,426.63	ND	ND	500.3	ND
362	W10: 3.5-4.0	ND	193.48	37.15	31.67	ND	ND	ND	ND	ND	ND	31,195.18	ND	1088.66	182.16	ND
363		ND	137.55	34.37	26.67	ND	ND	ND	ND	ND	ND	29,815.14	ND	ND	ND	ND
364	W11: 0.5-1.0	ND	96.13	101.6	45.64	**513.04**	ND	ND	582.24	ND	ND	30,996.56	ND	ND	359.56	ND
365		ND	92.9	110.66	41.8	**490.7**	ND	ND	**674.5**	ND	ND	30,329.99	ND	ND	306.38	ND
366	W11: 3.5-4.0	ND	135.83	35.3	24.4	ND	ND	ND	ND	ND	ND	24,184.00	ND	ND	180.93	ND
367		ND	127.21	29.73	24.81	ND	ND	ND	ND	ND	ND	22,920.38	ND	ND	ND	ND
Background samples																
372	TCP: 0.5-1.0	ND	139.89	46.67	29.46	ND	ND	ND	ND	ND	ND	25,633.97	ND	ND	ND	ND
373		ND	165.44	32.69	43.71	ND	ND	ND	ND	ND	ND	27,645.99	ND	ND	ND	ND
374	JCS-N: 0.5-1.0	ND	105.35	66.32	40.13	ND	ND	ND	228.04	ND	ND	20,943.55	ND	ND	301.11	ND
376		ND	123.46	57.36	33.79	68.34	ND	ND	165.79	ND	ND	20,062.97	ND	ND	288.19	ND
377	JCS-S: 0.5-1.0	ND	88.87	84.6	31.93	ND	ND	ND	ND	ND	ND	27,265.38	ND	ND	257.8	ND
378		ND	94.48	40.4	28.62	ND	ND	ND	ND	ND	ND	26,173.99	ND	ND	238.57	ND
379	GCR: 0.5-1.0	ND	61.59	ND	28.58	ND	ND	ND	ND	ND	ND	18,894.94	ND	ND	159.41	ND
380		ND	54.56	29.3	27.46	ND	ND	ND	ND	ND	ND	16,319.54	ND	ND	180.52	ND
Retest of particular samples. See data point above.																
382*	V3: 3.0-3.5	ND	213.47	42.18	17.64	ND	ND	ND	ND	ND	ND	31,909.13	ND	ND	159.28	ND
385*	S10: 2.5-3.0	ND	155.14	47.3	22.69	ND	ND	ND	ND	ND	ND	52,252.82	ND	ND	153.27	ND
386*		ND	146.41	39.67	19.82	ND	ND	ND	ND	ND	ND	55,972.58	ND	ND	137.87	ND
387*	S8: 0.5-1.0	ND	131.16	48.23	31.36	105.63	ND	ND	304.47	ND	ND	35,686.70	ND	ND	232.93	ND
388*	S13: 0.5-1.0	ND	101.62	44.34	32.98	473.53	ND	ND	1869.85	1727.14	288.79	54,099.63	675.5	ND	231.8	ND

TABLE 2: XRF Analytical Results for Metals in Soil
Roger's Garage
KD Investments
LACO Job No.: 5189.04

Reading No	Sample #	Mo	Zr	Sr	Rb	Pb	As	Hg	Zn	Cu	Ni	Fe	Mn	Cr	Ba	Sn
PRG (Residential)		**390**	**NE**	**47,000**	**NE**	**150**	**22**	**23**	**23,000**	**3,100**	**1,600**	**23,000**	**1,800**	**210**	**5,400**	**47,000**
ESL		**40**	**NE**	**NE**	**NE**	**200**	**5.5**	**2.5**	**600**	**230**	**150**	**NE**	**NE**	**58**	**750**	**NE**
Background		**ND**	**104**	**51**	**33**	**68**	**ND**	**ND**	**160**	**ND**	**ND**	**22,870**	**ND**	**ND**	**215**	**ND**
389*		ND	74.75	34.75	31.53	419.12	ND	ND	2160.57	1971.4	ND	56,481.53	ND	ND	180.77	ND
390*	T3: 0.5-1.0	ND	141.87	48.06	40.29	598.05	ND	ND	599.97	182.18	ND	48,018.20	ND	ND	268.65	ND
391*	T4: 0.5-1.0	ND	93.31	91.71	40.12	3181.99	ND	ND	2041.13	322.65	358.77	85,723.20	1078.39	ND	401.6	ND
392*	T6: 0.5-1.0	ND	76.16	83.92	33.07	1232.6	127.39	ND	3369.24	331.18	ND	58,811.36	ND	ND	502.32	ND
393*	T6: 0.5-1.0	ND	94.92	96.7	44.49	1534.21	ND	ND	3653.73	431.37	ND	51,715.16	833.86	ND	444.38	ND
394*	T7: 0.5-1.0	ND	80.63	84.97	33.68	4143.2	ND	ND	3169.58	734.24	439.69	144,695.30	1725.77	ND	357.1	ND
395*	T8: 0.5-1.0	ND	81.55	75.85	34.61	474.65	96.96	ND	1616.55	ND	ND	43,906.73	787.27	ND	305.64	ND
396*		ND	98.9	70.86	31.74	618.84	ND	ND	1626.09	250.74	278.71	44,344.64	879.64	ND	307.95	ND
397*	T9: 0.5-1.0	ND	66.93	116.56	39.22	133.67	ND	ND	215.74	ND	311.11	36,765.93	ND	ND	383.06	ND
398*	T11: 0.5-1.0	ND	67.78	115.61	38.23	136.68	ND	ND	ND	426.98	257.6	31,175.16	629.69	ND	345.24	ND
400*	U5: 3.5-4.0	ND	219.5	34.35	20.26	ND	ND	ND	ND	ND	ND	20,168.21	ND	382.88	114.84	ND
401*	U7: 0.5-1.0	ND	58.5	82.1	30.84	282.52	ND	ND	1210.2	215.58	ND	31,542.70	577.59	ND	397.6	ND
407*	X5: 3.5-4.0	ND	140.23	22.91	27.79	ND	ND	ND	ND	ND	ND	32,209.93	ND	399.98	142.32	ND
408*		ND	143.1	24.13	23.02	ND	ND	ND	ND	ND	ND	31,540.50	ND	ND	190.49	ND
409*	U8: 0.5-1.0	ND	54.86	93.59	36.4	535.25	ND	ND	1967.39	293.69	ND	40,633.98	961.45	ND	407.83	ND
410*		ND	65.71	94.12	25.33	490.87	ND	ND	3626.57	324.42	ND	39,248.01	757.78	ND	351.9	ND
414*	U15: 2.0-2.5	ND	73.15	69.29	27.82	197.73	ND	ND	332.16	ND	ND	44,399.99	780.21	ND	684.29	ND
416*	X10: 0.5-1.0	ND	43.4	96.81	36.87	235.44	ND	ND	306.15	ND	ND	29,545.70	642.4	ND	300.67	ND
417*	X11: 0.5-1.0	ND	29.3	107.25	31.01	292.69	ND	ND	163.2	ND	ND	29,768.88	537.02	ND	428.68	ND
418*	X12: 0.5-1.0	ND	105.75	39.59	26.46	ND	ND	ND	ND	ND	ND	21,155.66	ND	ND	198.76	ND
420*	Y8: 0.5-1.0	ND	76.53	90.96	34.72	1149.49	ND	ND	731.16	235.24	ND	48,639.67	700.1	ND	424.65	ND
422*	Z8: 3.5-4.0	ND	140.18	40.83	15.84	ND	ND	ND	ND	ND	ND	22,207.14	ND	ND	145.05	ND
425*	Z7: 0.5-1.0	ND	108.29	87.06	29.86	1341.52	ND	ND	713.6	1053.9	ND	45,062.65	ND	ND	257.7	ND
426*	Z2: 3.5-4.0	ND	103.12	20.26	15.95	ND	ND	ND	ND	ND	ND	14,703.66	ND	346.46	138.51	ND
427*	Z2: 0.5-1.0	ND	164.25	49.32	42.04	ND	ND	ND	ND	ND	ND	20,253.63	ND	ND	270.19	ND

All samples on March 22 and 23 were processed with the Niton Model XLi723W Serial 6355 X-Ray flourescence environmental analyzer.
All samples on March 28 were processed with the Niton Model XLi723 Serial 5663 X-Ray flourescence environmental analyzer.
All samples additionally were analyzed for selenium, colbalt, lanthium, cesium, tellarium, antimony, cadmium, silver, and palladium.
These metals were not detected above XRF detection limits in any of the samples and are therefore omitted from this table.
*Verification restest to confirm initial results. Done on March 28, 2005.
NOTE: Calibration and standardizing points are presented on Table 2.
Other omitted points were "void" on the XRF screen during testing, or points used by others for sampling jobs other than Roger's Garage.
ESL: San Franscico Bay Regional Water Quality Control Board Environmental Screening Levels (July 28, 2003)
Zinc and copper concentrations exceeding ESL are in **BOLD.** Lead concnetrations exceeding Cal Modified PRG are in **BOLD**
Background: Background levels established by averaging four samples collected off-site within 500 feet of the site (See March 28, 2005 points 372 through 380)
NE: Not established
ND: Not detected. Detection limits varied for every sample and were not recorded due to time contraints.

TABLE 3: Laboratory and XRF Analytical Result Comparison for Metals in Soil
Roger's Garage
KD Investments
LACO Job No.: 5189.04

	Sample #	Sb	As	Ba	Be	Cd	Cr	Co	Cu	Pb	Hg	Mo	Ni	Se	Ag	Tl	Va	Zn
PRG (Residential)		**31**	**22**	**5,400**	**150**	**37**	**210**	**900**	**3,100**	**150**	**23**	**390**	**1,600**	**390**	**390**	**5.2**	**78**	**23,000**
ESL (Residential)		**6.3**	**5.5**	**750**	**4.0**	**1.7**	**58**	**40**	**230**	**200**	**2.5**	**40**	**150**	**10**	**2.0**	**1.0**	**110**	**600**
Background		**ND**	**ND**	**215**	**NT**	**ND**	**ND**	**ND**	**ND**	**68**	**ND**	**ND**	**ND**	**NT**	**NT**	**NT**	**NT**	**160**
Laboratory	S13: 0.5-1.0	**7.3**	**7.3**	200	1.3	**11**	**160**	17	**2,000**	**520**	0.18	<3.0	66	1.1	<2.0	<1.0	73	**2,300**
XRF		ND	ND	384.65	NT	ND	662.72	ND	**2377.91**	**705.01**	ND	ND	ND	NT	ND	NT	NT	**3169.94**
XRF		ND	ND	251.04	NT	ND	ND	ND	**1505.34**	**422**	ND	ND	ND	NT	ND	NT	NT	**2171.97**
XRF		ND	ND	363.34	NT	ND	ND	ND	**1746.45**	**496.34**	ND	ND	ND	NT	ND	NT	NT	**2214.48**
Laboratory	T7: 0.5-1.0	**410**	0.006	600	<1.5	**7.6**	**79**	15	**610**	**4,600**	<.10	<9.0	110	<1.0	<6.0	<1.0	44	**2,500**
XRF		ND	ND	ND	NT	ND	ND	ND	ND	ND	ND	ND	ND	NT	ND	NT	NT	ND
XRF		ND	ND	550.54	NT	ND	ND	ND	**787.2**	**4428.6**	ND	ND	ND	NT	ND	NT	NT	**3057.88**
XRF		ND	ND	588.05	NT	ND	ND	ND	**955.87**	**3976.28**	ND	ND	ND	NT	ND	NT	NT	**2939.27**
Laboratory	U5: 0.5-1.0	<1.0	3.2	34	<0.5	<2.0	**87**	5.1	8.3	12	<0.10	<3.0	24	<1.0	<2.0	<1.0	61	24
XRF		ND	ND	313.49	NT	ND	319.78	ND	ND	ND	ND	ND	ND	NT	ND	NT	NT	105.13
XRF		ND	ND	283.86	NT	ND	ND	ND	ND	45.5	ND	ND	ND	NT	ND	NT	NT	ND
XRF		ND	ND	388.29	NT	ND	ND	ND	ND	ND	ND	ND	ND	NT	ND	NT	NT	168.55
Laboratory	U9: 0.5-1.0	2.4	3.3	120	<0.5	<2.0	50	12	77	**150**	<0.10	<3.0	58	<1.0	<2.0	<1.0	45	170
XRF		ND	ND	378.73	NT	ND	ND	ND	ND	**192.96**	ND	ND	ND	NT	ND	NT	NT	225.2
XRF		ND	ND	393.85	NT	ND	ND	ND	ND	**203.7**	ND	ND	ND	NT	ND	NT	NT	236.06
Laboratory	W2: 0.5-1.0	5.1	2.9	190	<0.5	**2.8**	54	9.0	130	**490**	0.15	<3.0	42	<1.0	<2.0	<1.0	47	370
XRF		ND	ND	381.93	NT	ND	ND	ND	ND	**329.16**	ND	ND	ND	NT	ND	NT	NT	347.54
XRF		ND	ND	215.19	NT	ND	ND	ND	ND	**975.01**	ND	ND	ND	NT	ND	NT	NT	441.58
Laboratory	W10: 0.5-1.0	**17**	**9.9**	370	<1.5	**10**	**140**	19	**520**	**2,200**	0.14	<9.0	**390**	<1.0	<6.0	<1.0	48	**3,000**
XRF		ND	ND	303.2	NT	ND	ND	ND	**885.53**	**2327.35**	ND	ND	ND	NT	ND	NT	NT	**3298.18**
XRF		ND	ND	500.3	NT	ND	ND	ND	**712.77**	**2494.04**	ND	ND	ND	NT	ND	NT	NT	**3216.13**
Laboratory	W10: 3.5-4.0	<1.0	3.7	69	0.64	<2.0	**70**	5.9	10	19	<0.10	<3.0	26	<1.0	<2.0	<1.0	57	30
XRF		ND	ND	182.16	NT	ND	1088.66	ND	ND	ND	ND	ND	ND	NT	ND	NT	NT	ND
XRF		ND	ND	ND	NT	ND	ND	ND	ND	ND	ND	ND	ND	NT	ND	NT	NT	ND
Laboratory	X6: 0.5-1.0	**7.8**	5	250	<0.50	**6.0**	**58**	13	220	**920***	1.2	<3.0	80	<1.0	<2.0	<1.0	52	500
XRF		ND	ND	283.99	NT	ND	ND	ND	**342.59**	**980.37**	ND	ND	ND	NT	ND	NT	NT	467.25
XRF		ND	ND	444.55	NT	ND	ND	ND	**261.68**	**1063.5**	ND	ND	ND	NT	ND	NT	NT	530.17
Laboratory	Y8: 0.5-1.0	**10**	**6.6**	300	<0.50	**5.7**	**59**	13	**280**	**1100**	0.44	4.6	79	2.7	<2.0	<1.0	42	**750**
XRF		ND	ND	473.99	NT	ND	ND	ND	ND	**932.69**	ND	ND	ND	NT	ND	NT	NT	**824.66**
XRF		ND	ND	266.49	NT	ND	ND	ND	**317.04**	**641.27**	ND	ND	ND	NT	ND	NT	NT	589.46
Laboratory	Y10: 0.5-1.0	4.4	4.4	140	0.63	**2.6**	51	11	**1200**	**300**	<0.10	<3.0	56	<1.0	<2.0	<1.0	49	330
XRF		ND	ND	317.02	NT	ND	ND	ND	**607.89**	**200.13**	ND	ND	ND	NT	ND	NT	NT	349.2
XRF		ND	ND	434.27	NT	ND	ND	ND	**487.53**	**217.76**	ND	ND	ND	NT	ND	NT	NT	380.61
Laboratory	Z2: 3.5-4.0	<1.0	1.5	28	<0.50	<2.0	48	4	11	<10	<0.10	<3.0	25	<1.0	<2.0	<1.0	57	10
XRF		ND	ND	ND	NT	ND	ND	ND	ND	ND	ND	ND	ND	NT	ND	NT	NT	100.94
XRF		ND	ND	ND	NT	ND	434.08	ND	ND	ND	ND	ND	ND	NT	ND	NT	NT	ND
XRF		ND	ND	195.21	NT	ND	ND	ND	ND	ND	ND	ND	ND	NT	ND	NT	NT	ND

TABLE 4: XRF Standards and Calibrations
Roger's Garage
KD Investments
LACO Job No.: 5189.04

Reading No	Sample #	Duration (secs)	Mo	Zr	Sr	Rb	Pb	As	Hg	Zn	Cu	Ni	Fe	Mn	Cr	Ba	Sn
Medium Standard- NIST #2711 values			**1.6**	**230**	**245.3**	**110**	**1162**	**105**	**6.25**	**350.4**	**114**	**20.6**	**2.89**	**638**	**47**	**726**	**NE**
March 22, 2005																	
24	Calibration																
25	Table	20.97	ND	-54.31	7.45	ND	ND	ND	ND	ND	ND	ND	1048.21	ND	ND	ND	ND
26	Low Standard	23.71	ND	155.52	185.72	85.06	37.54	ND	ND	109.7	ND	ND	26500.8	ND	ND	941.26	ND
29	Medium Standard	24.41	ND	360.77	196.94	94.47	1059.56	156.18	ND	343.87	213.44	ND	21180.8	ND	ND	696.57	ND
143	Calibration																
204	Calibration																
260	Calibration																
March 23, 2005																	
281	Calibration																
282	Table	20.95	ND	-57.84	4.72	ND	ND	ND	ND	ND	ND	ND	7927.02	ND	ND	ND	ND
283	Table	29.22	ND	-57.23	4.8	ND	ND	ND	ND	ND	ND	ND	473.51	ND	ND	ND	ND
284	Table	4.83	ND	-59.2	5.25	ND	ND	ND	ND	ND	ND	ND	600.42	ND	ND	ND	0
285	Table	10.34	ND	-54.07	4.32	ND	ND	ND	ND	ND	ND	ND	313.4	ND	ND	ND	0
305	Calibration																
420	Calibration																
459	Calibration																
March 28, 2005																	
221	Calibration	53.88															
234	Calibration	55.84															
381	Calibration	55.77															
383	Medium Standard	20	ND	258.09	224.17	93.04	1079.15	ND	ND	222.89	ND	ND	20506.3	ND	ND	521.46	ND
384	Medium Standard	60	ND	263.63	208.8	114.15	1234.47	ND	ND	275.54	ND	ND	21971.6	534.86	ND	707.32	ND
419	Calibration	55.85															
428	Medium Standard	60	ND	257.06	202.54	101.19	1077.8	132.51	ND	267.67	ND	ND	21850.8	880.29	ND	648.44	ND

Medium Standard values provided from Niton Xli 700 Series Environmental Anlyzer User's Guide Chapter 6 pages 56-57.

TABLE 5: CALCULATION OF THE 95TH UPPER CONFIDENCE LIMIT
KD Investments / Rogers' Garage
LACO Project No. 5189.04

Data File

Variable: Pb

Raw Statistics	
Number of Valid Samples	234
Number of Unique Samples	97
Minimum	26.2
Maximum	4428.6
Mean	259.6018
Median	35
Standard Deviation	593.7957
Variance	352593.3
Coefficient of Variation	2.287333
Skewness	4.5795

Gamma Statistics	
k hat	0.551106
k star (bias corrected)	0.54689
Theta hat	471.0559
Theta star	474.6877
nu hat	257.9176
nu star	255.9443
Approx.Chi Square Value (.05)	219.8935
Adjusted Level of Significance	0.048974
Adjusted Chi Square Value	219.6886

Log-transformed Statistics	
Minimum of log data	3.265759
Maximum of log data	8.395839
Mean of log data	4.423656
Standard Deviation of log data	1.289369
Variance of log data	1.662472

RECOMMENDATION
Data are Non-parametric (0.05)

Use 97.5% Chebyshev (Mean, Sd) UCL

Normal Distribution Test	
Lilliefors Test Statisitic	0.347135
Lilliefors 5% Critical Value	0.05792
Data not normal at 5% significance level	

95% UCL (Assuming Normal Distribution)	
Student's-t UCL	323.706

Gamma Distribution Test	
A-D Test Statistic	33.32302
A-D 5% Critical Value	0.816122
K-S Test Statistic	0.336735
K-S 5% Critical Value	0.06295
Data do not follow gamma distribution	
at 5% significance level	

95% UCLs (Assuming Gamma Distribution)	
Approximate Gamma UCL	302.1627
Adjusted Gamma UCL	302.4446

Lognormal Distribution Test	
Lilliefors Test Statisitic	0.347956
Lilliefors 5% Critical Value	0.05792
Data not lognormal at 5% significance level	

95% UCLs (Assuming Lognormal Distribution)	
95% H-UCL	234.2861
95% Chebyshev (MVUE) UCL	283.3667
97.5% Chebyshev (MVUE) UCL	323.6491
99% Chebyshev (MVUE) UCL	402.7761

95% Non-parametric UCLs	
CLT UCL	323.4511
Adj-CLT UCL (Adjusted for skewness)	335.8682
Mod-t UCL (Adjusted for skewness)	325.6428
Jackknife UCL	323.706
Standard Bootstrap UCL	322.9292
Bootstrap-t UCL	345.5023
Hall's Bootstrap UCL	340.6186
Percentile Bootstrap UCL	326.7722
BCA Bootstrap UCL	336.7959
95% Chebyshev (Mean, Sd) UCL	428.804
97.5% Chebyshev (Mean, Sd) UCL	502.0179
99% Chebyshev (Mean, Sd) UCL	645.8324

TABLE 6: "LEADSPREAD" EVALUATION OF LEAD EXPOSURE DATA
KD Investments/Rogers' Garage
LACO Project No. 5189.04

LEAD RISK ASSESSMENT SPREADSHEET
CALIFORNIA DEPARTMENT OF TOXIC SUBSTANCES CONTROL

USER'S GUIDE to version 7

INPUT	
MEDIUM	LEVEL
Lead in Air (ug/m^3)	0.028
Lead in Soil/Dust (ug/g)	429.0
Lead in Water (ug/l)	3.5
% Home-grown Produce	0%
Respirable Dust (ug/m^3)	1.5

OUTPUT							
	Percentile Estimate of Blood Pb (ug/dl)					PRG-99	PRG-95
	50th	90th	95th	98th	99th	(ug/g)	(ug/g)
BLOOD Pb, ADULT	0.9	1.6	1.9	2.3	2.6	3117	4508
BLOOD Pb, CHILD	3.8	7.0	8.3	10.1	11.5	358	539
BLOOD Pb, PICA CHILD	6.9	12.5	14.8	18.0	20.5	180	271
BLOOD Pb, OCCUPATIONAL	0.7	1.3	1.6	1.9	2.2	4475	6464

EXPOSURE PARAMETERS			
	units	adults	children
Days per week	days/wk	7	
Days per week, occupational		5	
Geometric Standard Deviation		1.6	
Blood lead level of concern (ug/dl)		10	
Skin area, residential	cm^2	5700	2900
Skin area occupational	cm^2	2900	
Soil adherence	ug/cm^2	70	200
Dermal uptake constant	(ug/dl)/(ug/day)	0.0001	
Soil ingestion	mg/day	50	100
Soil ingestion, pica	mg/day		200
Ingestion constant	(ug/dl)/(ug/day)	0.04	0.16
Bioavailability	unitless	0.44	
Breathing rate	m^3/day	20	6.8
Inhalation constant	(ug/dl)/(ug/day)	0.08	0.192
Water ingestion	l/day	1.4	0.4
Food ingestion	kg/day	1.9	1.1
Lead in market basket	ug/kg	3.1	
Lead in home-grown produce	ug/kg	193.1	

Click here for REFERENCES

PATHWAYS						
ADULTS	Residential			Occupational		
	Pathway contribution			Pathway contribution		
Pathway	PEF	ug/dl	percent	PEF	ug/dl	percent
Soil Contact	3.8E-5	0.02	2%	1.4E-5	0.01	1%
Soil Ingestion	8.8E-4	0.38	43%	6.3E-4	0.27	37%
Inhalation, bkgrnd		0.05	5%		0.03	4%
Inhalation	2.5E-6	0.00	0%	1.8E-6	0.00	0%
Water Ingestion		0.20	23%		0.20	27%
Food Ingestion, bkgrnd		0.23	27%		0.23	32%
Food Ingestion	0.0E+0	0.00	0%			0%

CHILDREN	typical			with pica		
	Pathway contribution			Pathway contribution		
Pathway	PEF	ug/dl	percent	PEF	ug/dl	percent
Soil Contact	5.6E-5	0.02	1%		0.02	0%
Soil Ingestion	7.0E-3	3.02	79%	1.4E-2	6.04	88%
Inhalation	2.0E-6	0.00	0%		0.00	0%
Inhalation, bkgrnd		0.04	1%		0.04	1%
Water Ingestion		0.22	6%		0.22	3%
Food Ingestion, bkgrnd		0.54	14%		0.54	8%
Food Ingestion	0.0E+0	0.00	0%		0.00	0%

Attachment 1

NCL needs [illegible]
for total Pb test.

Flow Chart of Sample Preparation Method recommended by NITON.

Use of the #60 Mesh sieve is optional.

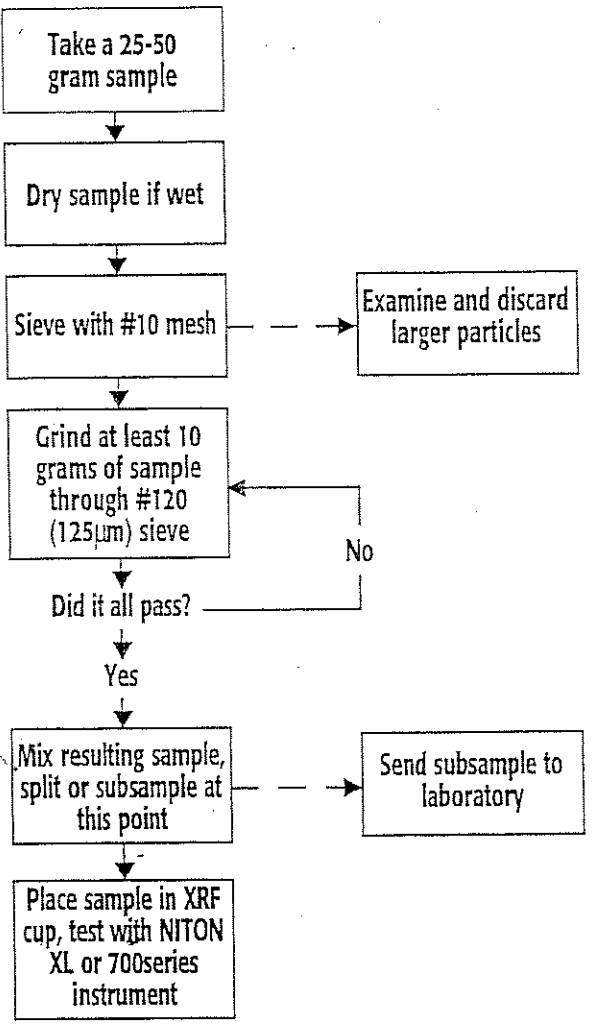

Figure 3.06
Soil Sample Preparation Protocol.
This sample preparation protocol should be followed whenever you are comparing XRF results to laboratory results. Following this protocol is the only way to guarantee that the samples being compared have approximately the same level of contamination present. Without such a preparation protocol there is no basis to compare XRF and laboratory results.

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Taking bulk samples

Note: **When testing for lead-in-soil in a residential setting, it is standard practice to sample the top 4 to 6 inches of soil.**

The soil probe or sampling tube is a very convenient sampling tool. because it

- allows speed
- makes more accurate composite samples than any other tool
- may always be inserted to a marked depth and
- removes the same amount of soil at each insertion.

There are core sampling devices that can remove an intact cylinder of undisturbed material.

A shovel, spade, dibble, narrow (1-1/2 inch) garden trowel, or other sampling tool can do the job. Take a half-inch soil slice. A satisfactory soil auger may be made by welding a 1-1/4 or 1-1/2 inch wood bit into a 1/2 inch pipe equipped with a T-handle.

Take 50–100 gram sample to insure that you have a sample large enough to be representative and unbiased after it is mixed, ground, and strained.

1 **Evaluate the area for differences in characteristics before sampling.** The validity of your results will depend on how well your samples represent the test site. Test results may be highly misleading or even worthless unless the samples tested actually represent the area.

Be sure to consider topography, texture, drainage, color of topsoil, and past use when selecting an area. Lead, for instance, is usually concentrated near a building with lead paint (within 4–6 feet).

2 **Reduce the samples by taking a vertical slice** (so it is representative of the entire spadeful) about one inch wide if the individual samplings are taken with spade or trowel (**Figure 3.07**).

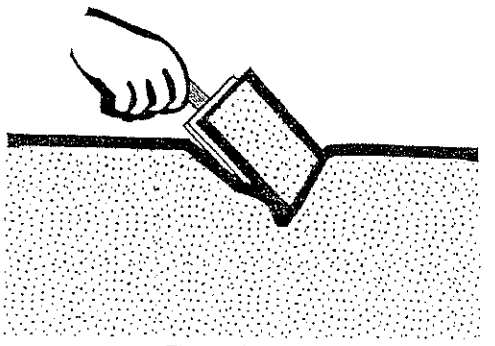

Figure 3.07
Taking a sample with a trowel

3 **Place the reduced samples in a clean pail.** Then mix the sample thoroughly by stirring and by rotating the pail at an angle of 45 degrees. Don't shake—you do not want to stratify the sample by weight).

4 **Take a composite sample from each predetermined area.** Do not combine samples from areas with different compositions or history. A composite sample made up of samplings from two distinctly different areas is not representative of either area.

5 **Prepare a composite sample by** taking several samplings from each predetermined area. These samples should consist of vertical columns of material approximately 1 inch in diameter. The length of each column should be about 6 inches. Lead from paint is usually concentrated within the top 1–4 inches. The elements you wish to measure and the local history will determine the depth at which you need to sample.

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Package samples from the following areas in separate categories:

- samples close to painted structures
- samples close to roads
- samples close to where various types of waste have been stored, or
- samples near pressure-treated lumber.

6 **Fill a clean plastic bag and close it securely with a twist tie.** Be sure to label it with the date, the site and the location from which it was taken.

Preparing bulk samples

The equipment you need to prepare samples is included in your kit. Among these are a mortar and pestle (for the 300*Series* with lead-in-soil-analysis), an electrically powered grinding mill (included with 700*Series*), and several sized-sieves.

Caution: All test equipment must be kept clean to prevent contaminated samples.

Cleaning Equipment:

The mortar, pestle, and grinding mill may be cleaned with dry paper towels. You can also clean the mortar, pestle, and the mill's container with water, but be sure each is absolutely dry before using them on another sample. The mortar and pestle may be cleansed by grinding clean dry sand in the mortar. Use the short bristle brushes (included in your Bulk Testing Kit) to clean the sieves. When Soil Grinder blades wear out, unbolt the worn blades and replace. Call the NITON Sales Department at 1-800-875-1578 for replacement blades.

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Putting the sample in an XRF sample cup

The container used to hold the sample will affect the accuracy of the measurement. Use a container with as thin-walled a window as is convenient and use the same kind of container and window for each sample. Consistency and careful attention to detail are keys to accurate measurement.

Note: **The sample container should be a sample cup of a type that can be filled from the rear; that is, the side opposite the window (e.g. Chemplex #1330). NITON recommends using a 1/4 mil mylar film (Figure 3.08). A supply of cups and films are included.**

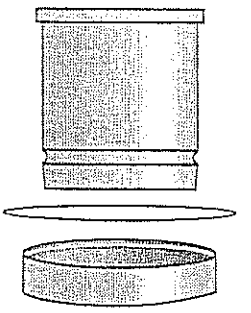

Figure 3.08
Sample cup with 1/4 mil mylar film

1. **Place a circle of mylar film on top of an XRF sample cup.** This film goes on the end of the cup with the indented ring. NITON recommends preparing the cup ahead of time, if possible.

2. **Secure the film with the collar.** The flange inside the collar faces down and snaps into the indented ring of the cup. Inspect the installed film window for continuity and smooth, taut appearance.

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3 **Set the cup on a flat surface film-window-side down.** Fill it with at least three grams of the prepared sample (no more than half-full). Take care that there are no voids or layering.

4 **Tamp the sample into the cup.** The end of the pestle makes a convenient tamper. If you intend to re-use the sample, you can, alternatively, place a filter-paper disk on the sample before tamping it.

5 **Fill the rest of the cup with polyester fiber stuffing to prevent sample movement.** Use aquarium filter or pillow filling as stuffing. A small supply of stuffing comes with your bulk sample kit.

6 **Fasten the cap on the cup (Figure 3.09).** Using an indelible pen, write an identifying number on the cup. Keep a record of the sample number, the site and location, the date of the sample, and any other relevant comments.

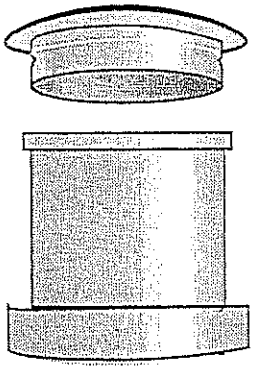

Figure 3.09
Sample cup with cap

Sample Preparation

To best prepare a sample for presentation to the XRF, the material should be dry and well homogenized. Ideally, the entire sample should be dried to constant weight, sieved to remove gravel and debris, and ground or milled to a fine powder.

1 **Dry the sample if it is moist and cohesive.** The sample can be dried in any of several ways. Choose one of the following:

- **Oven dry** the sample for approximately 2 hours at 150° C, until the sample reaches a constant weight.

  Note: **Oven drying is inappropriate when volatile compounds may be present in the sample.** For example, lead present as tetraethyl lead would be driven off by the heat of drying. Some forms of mercury and arsenic are volatile. Air drying will preserve more of these volatile substances.

- **Air dry** the sample overnight at room temperature in a shallow pan.

- **stir gently and warm the sample in a pan** over a hot plate or burner.

2 **Cone and quartering**

You may need to divide your sample at various times during preparation. Cone and quartering is a method for splitting the sample into homogenous quarters.

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- Pour the dry material slowly and carefully onto a flat sheet or pan forming a symmetrical cone.
- Divide the cone into equal piles using a flat thin-bladed tool, such as a knife or ruler.
- Divide these in half again.

Now you have four samples, each one-quarter the size of the original and each more homogenous than the original.

3 **Grind the sample** to break up dirt clods and/or paint chips.

Warning: Grinding-and-sieving dried samples produces dust. Even clean soil contains silica, which may be hazardous when airborne. Prepare all samples in a ventilated area; wear a mask, gloves, and an apron; and spread a drop cloth.

4 **Sieve with the #10** (2mm) **mesh and separate out the larger pieces** (stones, organic matter, metallic objects, etc. Examine the larger particles by eye (look for paint chips), but do not include in the sample.

5 **Grind the sample again** so its particles will be finer and more homogenous. Use mortar and pestle, or an electrically powered grinding mill.

6 **Sieve at least 10 grams of the sample through #60** (250 µm) **and #120** (125 µm) **mesh.** Re-grind the unpassed material until the required fraction is able to pass.

7 **Mix** the resulting sample.

Attachment 2

RECEIVED
LAND ASSOCIATES
APR 15 2005
BY:

NORTH COAST LABORATORIES LTD.

April 15, 2005

DANCO Builders
5251 Ericson Way
Arcata, CA 95521

Attn: KD Investments

RE: 5189.05, Roger's Garage

Order No.: 0503679
Invoice No.: 49398
PO No.:
ELAP No. 1247-Expires July 2006

SAMPLE IDENTIFICATION

Fraction	Client Sample Description
01A	S13 0.5-1.0
02A	T7 0.5-1.0
03A	U5 3.5-4.0
04A	U9 0.5-1.0
05A	W2 0.5-1.0
06A	W10 0.5-1.0
07A	W10 3.5-4.0
08A	X6 0.5-1.0
09A	Y8 0.5-1.0
10A	Y10 0.5-1.0
11A	Z2 3.5-4.0

ND = Not Detected at the Reporting Limit

Limit = Reporting Limit

All solid results are expressed on a wet-weight basis unless otherwise noted.

DBG D LEAD PROBLEM

CSM

REPORT CERTIFIED BY

T. Sherman

Laboratory Supervisor(s) | QA Unit | Jesse G. Chaney, Jr. Laboratory Director

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Printed on Recycled Paper

Date: 15-Apr-05
WorkOrder: 0503679

ANALYTICAL REPORT

Client Sample ID: S13 0.5-1.0 **Received:** 3/31/05 **Collected:** 2/23/05 0:00
Lab ID: 0503679-01A

Test Name: ICAP Metals **Reference:** EPA 6010B

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
Barium	200	1.0	µg/g	1.0	4/4/05	4/5/05
Beryllium	1.3	0.50	µg/g	1.0	4/4/05	4/5/05
Cadmium	11	2.0	µg/g	1.0	4/4/05	4/5/05
Chromium	160	2.0	µg/g	1.0	4/4/05	4/5/05
Cobalt	17	2.0	µg/g	1.0	4/4/05	4/5/05
Copper	2,000	2.0	µg/g	1.0	4/4/05	4/5/05
Lead	520	10	µg/g	1.0	4/4/05	4/5/05
Molybdenum	ND	3.0	µg/g	1.0	4/4/05	4/5/05
Nickel	66	5.0	µg/g	1.0	4/4/05	4/5/05
Silver	ND	2.0	µg/g	1.0	4/4/05	4/5/05
Vanadium	73	2.0	µg/g	1.0	4/4/05	4/5/05
Zinc	2,300	5.0	µg/g	1.0	4/4/05	4/5/05

Test Name: Mercury **Reference:** EPA 7471A

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
Mercury	0.18	0.10	µg/g	1.0	4/6/05	4/12/05

Client Sample ID: T7 0.5-1.0 **Received:** 3/31/05 **Collected:** 2/23/05 0:00
Lab ID: 0503679-02A

Test Name: ICAP Metals **Reference:** EPA 6010B

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
Barium	600	3.0	µg/g	3.0	4/4/05	4/5/05
Beryllium	ND	1.5	µg/g	3.0	4/4/05	4/5/05
Cadmium	7.6	6.0	µg/g	3.0	4/4/05	4/5/05
Chromium	79	6.0	µg/g	3.0	4/4/05	4/5/05
Cobalt	15	6.0	µg/g	3.0	4/4/05	4/5/05
Copper	610	6.0	µg/g	3.0	4/4/05	4/5/05
Lead	4,600	30	µg/g	3.0	4/4/05	4/5/05
Molybdenum	ND	9.0	µg/g	3.0	4/4/05	4/5/05
Nickel	110	15	µg/g	3.0	4/4/05	4/5/05
Silver	ND	6.0	µg/g	3.0	4/4/05	4/5/05
Vanadium	44	6.0	µg/g	3.0	4/4/05	4/5/05
Zinc	2,500	15	µg/g	3.0	4/4/05	4/5/05

Test Name: Mercury **Reference:** EPA 7471A

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
Mercury	ND	0.10	µg/g	1.0	4/6/05	4/12/05

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Date: 15-Apr-05
WorkOrder: 0503679

ANALYTICAL REPORT

Client Sample ID: U5 3.5-4.0 **Received:** 3/31/05 **Collected:** 2/23/05 0:00
Lab ID: 0503679-03A

Test Name: ICAP Metals **Reference:** EPA 6010B

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
Barium	34	1.0	µg/g	1.0	4/4/05	4/5/05
Beryllium	ND	0.50	µg/g	1.0	4/4/05	4/5/05
Cadmium	ND	2.0	µg/g	1.0	4/4/05	4/5/05
Chromium	87	2.0	µg/g	1.0	4/4/05	4/5/05
Cobalt	5.1	2.0	µg/g	1.0	4/4/05	4/5/05
Copper	8.3	2.0	µg/g	1.0	4/4/05	4/5/05
Lead	12	10	µg/g	1.0	4/4/05	4/5/05
Molybdenum	ND	3.0	µg/g	1.0	4/4/05	4/5/05
Nickel	24	5.0	µg/g	1.0	4/4/05	4/5/05
Silver	ND	2.0	µg/g	1.0	4/4/05	4/5/05
Vanadium	61	2.0	µg/g	1.0	4/4/05	4/5/05
Zinc	24	5.0	µg/g	1.0	4/4/05	4/5/05

Test Name: Mercury **Reference:** EPA 7471A

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
Mercury	ND	0.10	µg/g	1.0	4/6/05	4/12/05

Client Sample ID: U9 0.5-1.0 **Received:** 3/31/05 **Collected:** 2/23/05 0:00
Lab ID: 0503679-04A

Test Name: ICAP Metals **Reference:** EPA 6010B

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
Barium	120	1.0	µg/g	1.0	4/4/05	4/5/05
Beryllium	ND	0.50	µg/g	1.0	4/4/05	4/5/05
Cadmium	ND	2.0	µg/g	1.0	4/4/05	4/5/05
Chromium	50	2.0	µg/g	1.0	4/4/05	4/5/05
Cobalt	12	2.0	µg/g	1.0	4/4/05	4/5/05
Copper	77	2.0	µg/g	1.0	4/4/05	4/5/05
Lead	150	10	µg/g	1.0	4/4/05	4/5/05
Molybdenum	ND	3.0	µg/g	1.0	4/4/05	4/5/05
Nickel	58	5.0	µg/g	1.0	4/4/05	4/5/05
Silver	ND	2.0	µg/g	1.0	4/4/05	4/5/05
Vanadium	45	2.0	µg/g	1.0	4/4/05	4/5/05
Zinc	170	5.0	µg/g	1.0	4/4/05	4/5/05

Test Name: Mercury **Reference:** EPA 7471A

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
Mercury	ND	0.10	µg/g	1.0	4/6/05	4/12/05

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Date: 15-Apr-05
WorkOrder: 0503679

ANALYTICAL REPORT

Client Sample ID: W2 0.5-1.0 **Received:** 3/31/05 **Collected:** 2/23/05 0:00
Lab ID: 0503679-05A

Test Name: ICAP Metals **Reference:** EPA 6010B

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
Barium	190	1.0	µg/g	1.0	4/4/05	4/5/05
Beryllium	ND	0.50	µg/g	1.0	4/4/05	4/5/05
Cadmium	2.8	2.0	µg/g	1.0	4/4/05	4/5/05
Chromium	54	2.0	µg/g	1.0	4/4/05	4/5/05
Cobalt	9.0	2.0	µg/g	1.0	4/4/05	4/5/05
Copper	130	2.0	µg/g	1.0	4/4/05	4/5/05
Lead	490	10	µg/g	1.0	4/4/05	4/5/05
Molybdenum	ND	3.0	µg/g	1.0	4/4/05	4/5/05
Nickel	42	5.0	µg/g	1.0	4/4/05	4/5/05
Silver	ND	2.0	µg/g	1.0	4/4/05	4/5/05
Vanadium	47	2.0	µg/g	1.0	4/4/05	4/5/05
Zinc	370	5.0	µg/g	1.0	4/4/05	4/5/05

Test Name: Mercury **Reference:** EPA 7471A

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
Mercury	0.15	0.10	µg/g	1.0	4/6/05	4/12/05

Client Sample ID: W10 0.5-1.0 **Received:** 3/31/05 **Collected:** 2/23/05 0:00
Lab ID: 0503679-06A

Test Name: ICAP Metals **Reference:** EPA 6010B

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
Barium	370	3.0	µg/g	3.0	4/4/05	4/5/05
Beryllium	ND	1.5	µg/g	3.0	4/4/05	4/5/05
Cadmium	10	6.0	µg/g	3.0	4/4/05	4/5/05
Chromium	140	6.0	µg/g	3.0	4/4/05	4/5/05
Cobalt	19	6.0	µg/g	3.0	4/4/05	4/5/05
Copper	520	6.0	µg/g	3.0	4/4/05	4/5/05
Lead	2,200	30	µg/g	3.0	4/4/05	4/5/05
Molybdenum	ND	9.0	µg/g	3.0	4/4/05	4/5/05
Nickel	390	15	µg/g	3.0	4/4/05	4/5/05
Silver	ND	6.0	µg/g	3.0	4/4/05	4/5/05
Vanadium	48	6.0	µg/g	3.0	4/4/05	4/5/05
Zinc	3,000	15	µg/g	3.0	4/4/05	4/5/05

Test Name: Mercury **Reference:** EPA 7471A

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
Mercury	0.14	0.10	µg/g	1.0	4/6/05	4/12/05

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WorkOrder: 0503679

ANALYTICAL REPORT

Client Sample ID: W10 3.5-4.0 **Received:** 3/31/05 **Collected:** 2/23/05 0:00
Lab ID: 0503679-07A

Test Name: ICAP Metals **Reference:** EPA 6010B

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
Barium	69	1.0	µg/g	1.0	4/4/05	4/5/05
Beryllium	0.64	0.50	µg/g	1.0	4/4/05	4/5/05
Cadmium	ND	2.0	µg/g	1.0	4/4/05	4/5/05
Chromium	70	2.0	µg/g	1.0	4/4/05	4/5/05
Cobalt	5.9	2.0	µg/g	1.0	4/4/05	4/5/05
Copper	9.9	2.0	µg/g	1.0	4/4/05	4/5/05
Lead	19	10	µg/g	1.0	4/4/05	4/5/05
Molybdenum	ND	3.0	µg/g	1.0	4/4/05	4/5/05
Nickel	26	5.0	µg/g	1.0	4/4/05	4/5/05
Silver	ND	2.0	µg/g	1.0	4/4/05	4/5/05
Vanadium	57	2.0	µg/g	1.0	4/4/05	4/5/05
Zinc	30	5.0	µg/g	1.0	4/4/05	4/5/05

Test Name: Mercury **Reference:** EPA 7471A

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
Mercury	ND	0.10	µg/g	1.0	4/6/05	4/12/05

Client Sample ID: X6 0.5-1.0 **Received:** 3/31/05 **Collected:** 2/23/05 0:00
Lab ID: 0503679-08A

Test Name: ICAP Metals **Reference:** EPA 6010B

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
Barium	250	1.0	µg/g	1.0	4/4/05	4/5/05
Beryllium	ND	0.50	µg/g	1.0	4/4/05	4/5/05
Cadmium	6.0	2.0	µg/g	1.0	4/4/05	4/5/05
Chromium	58	2.0	µg/g	1.0	4/4/05	4/5/05
Cobalt	13	2.0	µg/g	1.0	4/4/05	4/5/05
Copper	220	2.0	µg/g	1.0	4/4/05	4/5/05
Lead	34,000	10	µg/g	1.0	4/4/05	4/5/05
Molybdenum	ND	3.0	µg/g	1.0	4/4/05	4/5/05
Nickel	80	5.0	µg/g	1.0	4/4/05	4/5/05
Silver	ND	2.0	µg/g	1.0	4/4/05	4/5/05
Vanadium	42	2.0	µg/g	1.0	4/4/05	4/5/05
Zinc	500	5.0	µg/g	1.0	4/4/05	4/5/05

Test Name: Mercury **Reference:** EPA 7471A

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
Mercury	1.2	0.10	µg/g	1.0	4/6/05	4/12/05

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Date: 15-Apr-05
WorkOrder: 0503679

ANALYTICAL REPORT

Client Sample ID: Y8 0.5-1.0 **Received:** 3/31/05 **Collected:** 2/23/05 0:00
Lab ID: 0503679-09A

Test Name: ICAP Metals **Reference:** EPA 6010B

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
Barium	300	1.0	µg/g	1.0	4/4/05	4/5/05
Beryllium	ND	0.50	µg/g	1.0	4/4/05	4/5/05
Cadmium	5.7	2.0	µg/g	1.0	4/4/05	4/5/05
Chromium	59	2.0	µg/g	1.0	4/4/05	4/5/05
Cobalt	13	2.0	µg/g	1.0	4/4/05	4/5/05
Copper	280	2.0	µg/g	1.0	4/4/05	4/5/05
Lead	1,100	10	µg/g	1.0	4/4/05	4/5/05
Molybdenum	4.6	3.0	µg/g	1.0	4/4/05	4/5/05
Nickel	79	5.0	µg/g	1.0	4/4/05	4/5/05
Silver	ND	2.0	µg/g	1.0	4/4/05	4/5/05
Vanadium	42	2.0	µg/g	1.0	4/4/05	4/5/05
Zinc	750	5.0	µg/g	1.0	4/4/05	4/5/05

Test Name: Mercury **Reference:** EPA 7471A

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
Mercury	0.44	0.10	µg/g	1.0	4/6/05	4/12/05

Client Sample ID: Y10 0.5-1.0 **Received:** 3/31/05 **Collected:** 2/23/05 0:00
Lab ID: 0503679-10A

Test Name: ICAP Metals **Reference:** EPA 6010B

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
Barium	140	1.0	µg/g	1.0	4/4/05	4/5/05
Beryllium	0.63	0.50	µg/g	1.0	4/4/05	4/5/05
Cadmium	2.6	2.0	µg/g	1.0	4/4/05	4/5/05
Chromium	51	2.0	µg/g	1.0	4/4/05	4/5/05
Cobalt	11	2.0	µg/g	1.0	4/4/05	4/5/05
Copper	1,200	2.0	µg/g	1.0	4/4/05	4/5/05
Lead	300	10	µg/g	1.0	4/4/05	4/5/05
Molybdenum	ND	3.0	µg/g	1.0	4/4/05	4/5/05
Nickel	56	5.0	µg/g	1.0	4/4/05	4/5/05
Silver	ND	2.0	µg/g	1.0	4/4/05	4/5/05
Vanadium	49	2.0	µg/g	1.0	4/4/05	4/5/05
Zinc	330	5.0	µg/g	1.0	4/4/05	4/5/05

Test Name: Mercury **Reference:** EPA 7471A

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
Mercury	ND	0.10	µg/g	1.0	4/6/05	4/12/05

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Date: 15-Apr-05
WorkOrder: 0503679

ANALYTICAL REPORT

Client Sample ID: Z2 3.5-4.0 **Received:** 3/31/05 **Collected:** 2/23/05 0:00
Lab ID: 0503679-11A

Test Name: ICAP Metals **Reference:** EPA 6010B

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
Barium	28	1.0	µg/g	1.0	4/4/05	4/5/05
Beryllium	ND	0.50	µg/g	1.0	4/4/05	4/5/05
Cadmium	ND	2.0	µg/g	1.0	4/4/05	4/5/05
Chromium	48	2.0	µg/g	1.0	4/4/05	4/5/05
Cobalt	4.0	2.0	µg/g	1.0	4/4/05	4/5/05
Copper	11	2.0	µg/g	1.0	4/4/05	4/5/05
Lead	ND	10	µg/g	1.0	4/4/05	4/5/05
Molybdenum	ND	3.0	µg/g	1.0	4/4/05	4/5/05
Nickel	25	5.0	µg/g	1.0	4/4/05	4/5/05
Silver	ND	2.0	µg/g	1.0	4/4/05	4/5/05
Vanadium	57	2.0	µg/g	1.0	4/4/05	4/5/05
Zinc	16	5.0	µg/g	1.0	4/4/05	4/5/05

Test Name: Mercury **Reference:** EPA 7471A

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
Mercury	ND	0.10	µg/g	1.0	4/6/05	4/12/05

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North Coast Laboratories, Ltd.

Date: 15-Apr-05

CLIENT: DANCO Builders
Work Order: 0503679
Project: 5189.05, Roger's Garage

QC SUMMARY REPORT

Method Blank

Sample ID **MB-13265P** Batch ID: **13265** Test Code: **6ICPS** Units: **µg/g** Analysis Date **4/5/05 4:49:00 PM** Prep Date **4/4/05**
Client ID: Run ID: **INICP1_050405A** SeqNo: **496059**

Analyte	Result	Limit	SPK value	SPK Ref Val	% Rec	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Barium	ND	1.0									
Beryllium	ND	0.50									
Cadmium	ND	2.0									
Chromium	ND	2.0									
Cobalt	ND	2.0									
Copper	ND	2.0									
Lead	ND	10									
Molybdenum	ND	3.0									
Nickel	ND	5.0									
Silver	ND	2.0									
Vanadium	ND	2.0									
Zinc	0.5300	5.0									J

Sample ID **MB-13279** Batch ID: **13279** Test Code: **MERCS** Units: **µg/g** Analysis Date **4/12/05** Prep Date **4/6/05**
Client ID: Run ID: **CVAA1_050412A** SeqNo: **497695**

Analyte	Result	Limit	SPK value	SPK Ref Val	% Rec	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	ND	0.10									

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blank

North Coast Laboratories, Ltd.

Date: 15-Apr-05

CLIENT: DANCO Builders
Work Order: 0503679
Project: 5189.05, Roger's Garage

QC SUMMARY REPORT

Laboratory Control Spike

Sample ID **LCS-13265P** Batch ID: **13265** Test Code: **6ICPS** Units: **µg/g** Analysis Date **4/5/05 4:52:00 PM** Prep Date **4/4/05**

Client ID: Run ID: **INICP1_050405A** SeqNo: **496060**

Analyte	Result	Limit	SPK value	SPK Ref Val	% Rec	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Barium	98.10	1.0	100	0	98.1%	85	115	0			
Beryllium	97.73	0.50	100	0	97.7%	85	115	0			
Cadmium	100.2	2.0	100	0	100%	85	115	0			
Chromium	94.59	2.0	100	0	94.6%	85	115	0			
Cobalt	97.15	2.0	100	0	97.2%	85	115	0			
Copper	97.27	2.0	100	0	97.3%	85	115	0			
Lead	95.66	10	100	0	95.7%	85	115	0			
Molybdenum	100.4	3.0	100	0	100%	85	115	0			
Nickel	95.02	5.0	100	0	95.0%	85	115	0			
Silver	10.37	2.0	10.0	0	104%	85	115	0			
Vanadium	97.55	2.0	100	0	97.6%	85	115	0			
Zinc	96.40	5.0	100	0.530	95.9%	85	115	0			

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blank

CLIENT: DANCO Builders
Work Order: 0503679
Project: 5189.05, Roger's Garage

QC SUMMARY REPORT

Laboratory Control Spike Duplicate

Sample ID **LCSD-13265P** Batch ID: **13265** Test Code: **6ICPS** Units: **µg/g** Analysis Date **4/5/05 4:56:00 PM** Prep Date **4/4/05**
Client ID: Run ID: **INICP1_050405A** SeqNo: **496061**

Analyte	Result	Limit	SPK value	SPK Ref Val	% Rec	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Barium	98.88	1.0	100	0	98.9%	85	115	98.1	0.792%	0	
Beryllium	98.12	0.50	100	0	98.1%	85	115	97.7	0.398%	0	
Cadmium	99.29	2.0	100	0	99.3%	85	115	100	0.862%	0	
Chromium	94.14	2.0	100	0	94.1%	85	115	94.6	0.477%	0	
Cobalt	96.39	2.0	100	0	96.4%	85	115	97.2	0.785%	0	
Copper	97.75	2.0	100	0	97.8%	85	115	97.3	0.492%	0	
Lead	94.03	10	100	0	94.0%	85	115	95.7	1.72%	0	
Molybdenum	100.2	3.0	100	0	100%	85	115	100	0.259%	0	
Nickel	94.03	5.0	100	0	94.0%	85	115	95.0	1.05%	0	
Silver	10.08	2.0	10.0	0	101%	85	115	10.4	2.84%	0	
Vanadium	97.39	2.0	100	0	97.4%	85	115	97.6	0.164%	0	
Zinc	95.56	5.0	100	0.530	95.0%	85	115	96.4	0.875%	0	

Sample ID **LCS-13279** Batch ID: **13279** Test Code: **MERCS** Units: **µg/g** Analysis Date **4/12/05** Prep Date **4/6/05**
Client ID: Run ID: **CVAA1_050412A** SeqNo: **497696**

Analyte	Result	Limit	SPK value	SPK Ref Val	% Rec	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.4200	0.10	0.400	0	105%	85	115	0			

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blank

NORTH COAST LABORATORIES LTD.
5680 West End Road • Arcata • CA 95521-9202
707-822-4649 Fax 707-822-6831

Chain of Custody

LABORATORY NUMBER: 0503679

Attention: C. Manhart @ LACO. bill
Results & Invoice to: KD Investments / Danco
Address: ATTN: per Carmen
Phone:
Copies of Report to: C. Manhart @ LACO.
Sampler (Sign & Print): H. Erickson / G. Erickson

TAT: ☐ 24 Hr ☐ 48 Hr ☐ 5 Day ☐ 5–7 Day
☒ STD (2–3 Wk) ☐ Other:
PRIOR AUTHORIZATION IS REQUIRED FOR RUSHES

REPORTING REQUIREMENTS: State Forms ☐
Preliminary: FAX ☒ Verbal ☐ By: / /
Final Report: FAX ☐ Verbal ☐ By: / /

CONTAINER CODES: 1—½ gal. pl; 2—250 ml pl; 3—500 ml pl; 4—1 L Nalgene; 5—250 ml BG; 6—500 ml BG; 7—1 L BG; 8—1 L cg; 9—40 ml VOA; 10—125 ml VOA; 11—4 oz glass jar; 12—8 oz glass jar; 13—brass tube; 14—other

PRESERVATIVE CODES: a—HNO_3; b—HCl; c—H_2SO_4; d—$Na_2S_2O_3$; e—NaOH; f—$C_2H_3O_2Cl$; g—other

PROJECT INFORMATION
Project Number: 5189.05
Project Name: Rogers Garage.
Purchase Order Number:

LAB ID	SAMPLE ID	DATE	TIME	MATRIX*	PRESERVATIVE	CONTAINER	ANALYSIS
	S13 0.5-1.0	2/23/05		SOIL	None	14	CAM 17
	T7 0.5-1.0	↓		↓	↓	↓	↓
	U5 3.5-4.0						
	U9 0.5-1.0						
	W2 0.5-1.0						
	W10 0.5-1.0						
	W10 3.5-4.0						
	X6 0.5-1.0						
	Y8 0.5-1.0						
	Y10 0.5-1.0						

SAMPLE CONDITION/SPECIAL INSTRUCTIONS
Hold samples for possible
STLC / TCLP too
Evidence of Cooling

RELINQUISHED BY (Sign & Print)	DATE/TIME	RECEIVED BY (Sign)	DATE/TIME
Steve Davis	3-31-05 1:00 pm	Jennifer Meads	3-31-05 13:00

SAMPLE DISPOSAL
☒ NCL Disposal of Non-Contaminated
☐ Return ☐ Pickup

CHAIN OF CUSTODY SEALS Y/N/NA
SHIPPED VIA: UPS Air-Ex Fed-Ex Bus Hand

***MATRIX:** DW=Drinking Water; Eff=Effluent; Inf=Influent; SW=Surface Water; GW=Ground Water; S=Soil; O=Other.

ALL CONTAMINATED NON-AQUEOUS SAMPLES WILL BE RETURNED TO CLIENT

NORTH COAST LABORATORIES LTD.
5680 West End Road • Arcata • CA 95521-9202
707-822-4649 Fax 707-822-6831

Chain of Custody

LABORATORY NUMBER: 0503679

Attention: C. Manhart @ LACO
Results & Invoice to: KD Investments
Address:
Phone:
Copies of Report to: C. Manhart @ LACO
Sampler (Sign & Print): [illegible] / G. Eriksen

TAT: ☐ 24 Hr ☐ 48 Hr ☐ 5 Day ☐ 5–7 Day
☒ STD (2–3 Wk) ☐ Other:
PRIOR AUTHORIZATION IS REQUIRED FOR RUSHES

REPORTING REQUIREMENTS: State Forms ☐
Preliminary: FAX ☒ Verbal ☐ By: __/__/__
Final Report: FAX ☐ Verbal ☐ By: __/__/__

CONTAINER CODES: 1—½ gal. pl; 2—250 ml pl; 3—500 ml pl; 4—1 L Nalgene; 5—250 ml BG; 6—500 ml BG; 7—1 L BG; 8—1 L cg; 9—40 ml VOA; 10—125 ml VOA; 11—4 oz glass jar; 12—8 oz glass jar; 13—brass tube; 14—other

PRESERVATIVE CODES: a—HNO_3; b—HCl; c—H_2SO_4; d—$Na_2S_2O_3$; e—NaOH; f—$C_2H_3O_2Cl$; g—other

PROJECT INFORMATION

Project Number: 5189.05
Project Name: Rogers Garage
Purchase Order Number:

LAB ID	SAMPLE ID	DATE	TIME	MATRIX*	PRESERVATIVE	CONTAINER	ANALYSIS
	Z2 3.5-4.0	2/23/05		SOIL	None	14	CAM 17

SAMPLE CONDITION/SPECIAL INSTRUCTIONS

Hold samples for possible STLC/TCLP too

RELINQUISHED BY (Sign & Print)	DATE/TIME	RECEIVED BY (Sign)	DATE/TIME
[illegible] STEVE DAVIS	3-31-05 1:00 pm	[illegible]	3-31-05 13:00

SAMPLE DISPOSAL
☒ NCL Disposal of Non-Contaminated
☐ Return ☐ Pickup

CHAIN OF CUSTODY SEALS Y/N/(NA)
SHIPPED VIA: UPS Air-Ex Fed-Ex Bus (Hand)

***MATRIX:** DW=Drinking Water; Eff=Effluent; Inf=Influent; SW=Surface Water; GW=Ground Water; S=Soil; O=Other.

ALL CONTAMINATED NON-AQUEOUS SAMPLES WILL BE RETURNED TO CLIENT

Alpha Analytical, Inc.
255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778
(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

ANALYTICAL REPORT

Northcoast Laboratories
5680 West End Road
Arcata, CA 95521

Attn: Loretta Tomlin
Phone: (707) 822-4649
Fax: (707) 822-6831
Date Received : 04/05/05

Job#:

Metals by ICPMS
EPA Method SW6020 / SW6020A

		Parameter	Concentration	Reporting Limit	Date Sampled	Date Analyzed
Client ID :	**0503679-1A/ S13 0.5-1.0**					
Lab ID :	NOC05040526-01A	Arsenic (As)	7,300	1,000 µg/Kg	02/23/05	04/13/05
		Selenium (Se)	1,100	1,000 µg/Kg	02/23/05	04/13/05
		Antimony (Sb)	3,600	1,000 µg/Kg	02/23/05	04/13/05
		Thallium (Tl)	ND	1,000 µg/Kg	02/23/05	04/13/05
Client ID :	**0503679-2A/ T7 0.5-1.0**					
Lab ID :	NOC05040526-02A	Arsenic (As)	9,600	1,000 µg/Kg	02/23/05	04/13/05
		Selenium (Se)	ND	1,000 µg/Kg	02/23/05	04/13/05
		Antimony (Sb)	410,000	1,000 µg/Kg	02/23/05	04/13/05
		Thallium (Tl)	ND	1,000 µg/Kg	02/23/05	04/13/05
Client ID :	**0503679-3A/ U5 3.5-4.0**					
Lab ID :	NOC05040526-03A	Arsenic (As)	3,200	1,000 µg/Kg	02/23/05	04/13/05
		Selenium (Se)	ND	1,000 µg/Kg	02/23/05	04/13/05
		Antimony (Sb)	ND	1,000 µg/Kg	02/23/05	04/13/05
		Thallium (Tl)	ND	1,000 µg/Kg	02/23/05	04/13/05
Client ID :	**0503679-4A/ U9 0.5-1.0**					
Lab ID :	NOC05040526-04A	Arsenic (As)	3,300	1,000 µg/Kg	02/23/05	04/13/05
		Selenium (Se)	ND	1,000 µg/Kg	02/23/05	04/13/05
		Antimony (Sb)	2,400	1,000 µg/Kg	02/23/05	04/13/05
		Thallium (Tl)	ND	1,000 µg/Kg	02/23/05	04/13/05
Client ID :	**0503679-5A/ W2 0.5-1.0**					
Lab ID :	NOC05040526-05A	Arsenic (As)	2,900	1,000 µg/Kg	02/23/05	04/13/05
		Selenium (Se)	ND	1,000 µg/Kg	02/23/05	04/13/05
		Antimony (Sb)	5,100	1,000 µg/Kg	02/23/05	04/13/05
		Thallium (Tl)	ND	1,000 µg/Kg	02/23/05	04/13/05
Client ID :	**0503679-6A/ W10 0.5-1.0**					
Lab ID :	NOC05040526-06A	Arsenic (As)	9,900	1,000 µg/Kg	02/23/05	04/13/05
		Selenium (Se)	ND	1,000 µg/Kg	02/23/05	04/13/05
		Antimony (Sb)	17,000	1,000 µg/Kg	02/23/05	04/13/05
		Thallium (Tl)	ND	1,000 µg/Kg	02/23/05	04/13/05
Client ID :	**0503679-7A/ W10 3.5-4.0**					
Lab ID :	NOC05040526-07A	Arsenic (As)	3,700	1,000 µg/Kg	02/23/05	04/13/05
		Selenium (Se)	ND	1,000 µg/Kg	02/23/05	04/13/05
		Antimony (Sb)	ND	1,000 µg/Kg	02/23/05	04/13/05
		Thallium (Tl)	ND	1,000 µg/Kg	02/23/05	04/13/05

Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778
(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

Client ID :	**0503679-8A/ X6 0.5-1.0**					
Lab ID :	NOC05040526-08A	Arsenic (As)	5,000	1,000 µg/Kg	02/23/05	04/13/05
		Selenium (Se)	ND	1,000 µg/Kg	02/23/05	04/13/05
		Antimony (Sb)	7,800	1,000 µg/Kg	02/23/05	04/13/05
		Thallium (Tl)	ND	1,000 µg/Kg	02/23/05	04/13/05
		Lead (Pb)	920,000	1,000 µg/Kg	02/23/05	04/13/05
Client ID :	**0503679-9A/ Y8 0.5-1.0**					
Lab ID :	NOC05040526-09A	Arsenic (As)	6,600	1,000 µg/Kg	02/23/05	04/13/05
		Selenium (Se)	2,700	1,000 µg/Kg	02/23/05	04/13/05
		Antimony (Sb)	10,000	1,000 µg/Kg	02/23/05	04/13/05
		Thallium (Tl)	ND	1,000 µg/Kg	02/23/05	04/13/05
Client ID :	**0503679-10A/ Y10 0.5-1.0**					
Lab ID :	NOC05040526-10A	Arsenic (As)	4,400	1,000 µg/Kg	02/23/05	04/13/05
		Selenium (Se)	ND	1,000 µg/Kg	02/23/05	04/13/05
		Antimony (Sb)	4,400	1,000 µg/Kg	02/23/05	04/13/05
		Thallium (Tl)	ND	1,000 µg/Kg	02/23/05	04/13/05
Client ID :	**0503679-11A/ Z2 3.5-4.0**					
Lab ID :	NOC05040526-11A	Arsenic (As)	1,500	1,000 µg/Kg	02/23/05	04/13/05
		Selenium (Se)	ND	1,000 µg/Kg	02/23/05	04/13/05
		Antimony (Sb)	ND	1,000 µg/Kg	02/23/05	04/13/05
		Thallium (Tl)	ND	1,000 µg/Kg	02/23/05	04/13/05

Reported in micrograms per kilogram, per client request.

This replaces the report signed 4/13/05 due to a change in the analyte list for sample 08A, per client request.

ND = Not Detected

Roger Scholl Randy Gardner Walter Hinchman

Roger L. Scholl, Ph.D., Laboratory Director • • Randy Gardner, Laboratory Manager • • Walter Hinchman, Quality Assurance Officer
Sacramento, CA • (916) 366-9089 / Las Vegas, NV • (702) 281-4848 / info@alpha-analytical.com

4/19/05
Report Date

Billing Information :

CHAIN-OF-CUSTODY RECORD

CA AMENDED

Alpha Analytical, Inc.
255 Glendale Avenue, Suite 21 Sparks, Nevada 89431-5778
TEL: (775) 355-1044 FAX: (775) 355-0406

WorkOrder : NOC05040526

Report Due By : 5:00 PM On : 14-Apr-05

Client:
Northcoast Laboratories
5680 West End Road

Arcata, CA 95521

Loretta Tomlin
TEL : (707) 822-4649 x 101
FAX : (707) 822-6831
EMail ltomlin@northcoastlabs.com

EDD Required : No PDF Required : No

Sampled by : Client

Report Attention : Loretta Tomlin Job :
CC Report : PO : Client's COC # : none

Cooler Temp : 4 °C 18-Apr-05

QC Level : 3 = Final Rpt, MBLK, LCS, MS/MSD

Alpha Sample ID	Client Sample ID	Matrix	Collection Date	No. of Bottles ORG	SUB	TAT	PWS #	Requested Tests METALS_SO							Sample Remarks
NOC05040526-11A	0503679-11A/ Z2 3.5-4.0	SO	02/23/05 00:00	1	0	7		As,Se,Sb,Tl							

Comments: No security seals intact, ice frozen. Ca samples. No sampling times reported.**Amended coc 4/18/05 per Loretta via Reyna to add Pb to sample #08. GN :

	Signature	Print Name	Company	Date/Time
Received by:	Graciela Navarrete	G. Navarrete	Alpha Analytical, Inc.	4-18-05 2:45

NOTE: Samples are discarded 60 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at client expense.
The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for the report.
Matrix Type : AQ(Aqueous) AR(Air) SO(Soil) WS(Waste) DW(Drinking Water) OT(Other) Bottle Type: L-Liter V-Voa S-Soil Jar O-Orbo T-Tedlar B-Brass P-Plastic OT-Other

Billing Information :

CHAIN-OF-CUSTODY RECORD

AMENDED CA

Alpha Analytical, Inc.
255 Glendale Avenue, Suite 21 Sparks, Nevada 89431-5778
TEL: (775) 355-1044 FAX: (775) 355-0406

WorkOrder : NOC05040526

Report Due By : 5:00 PM On : 14-Apr-05

Client:
Northcoast Laboratories
5680 West End Road

Arcata, CA 95521

Loretta Tomlin
TEL : (707) 822-4649 x 101
FAX : (707) 822-6831
EMail ltomlin@northcoastlabs.com

EDD Required : No PDF Required : No

Sampled by : Client

Report Attention : Loretta Tomlin Job :

CC Report : PO : Client's COC # : none Cooler Temp : 4 °C 18-Apr-05

QC Level : 3 = Final Rpt, MBLK, LCS, MS/MSD

Alpha Sample ID	Client Sample ID	Matrix	Collection Date	No. of Bottles ORG	SUB	TAT	PWS #	Requested Tests METALS_SO							Sample Remarks
NOC05040526-01A	0503679-1A/ S13 0.5-1.0	SO	02/23/05 00:00	1	0	7		As,Se,Sb,Tl							
NOC05040526-02A	0503679-2A/ T7 0.5-1.0	SO	02/23/05 00:00	1	0	7		As,Se,Sb,Tl							
NOC05040526-03A	0503679-3A/ U5 3.5-4.0	SO	02/23/05 00:00	1	0	7		As,Se,Sb,Tl							
NOC05040526-04A	0503679-4A/ U9 0.5-1.0	SO	02/23/05 00:00	1	0	7		As,Se,Sb,Tl							
NOC05040526-05A	0503679-5A/ W2 0.5-1.0	SO	02/23/05 00:00	1	0	7		As,Se,Sb,Tl							
NOC05040526-06A	0503679-6A/ W10 0.5-1.0	SO	02/23/05 00:00	1	0	7		As,Se,Sb,Tl							
NOC05040526-07A	0503679-7A/ W10 3.5-4.0	SO	02/23/05 00:00	1	0	7		As,Se,Sb,Tl							
NOC05040526-08A	0503679-8A/ X6 0.5-1.0	SO	02/23/05 00:00	1	0	7		As,Se,Sb,Tl, Pb							
NOC05040526-09A	0503679-9A/ Y8 0.5-1.0	SO	02/23/05 00:00	1	0	7		As,Se,Sb,Tl							
NOC05040526-10A	0503679-10A/ Y10 0.5-1.0	SO	02/23/05 00:00	1	0	7		As,Se,Sb,Tl							

Comments: No security seals intact, ice frozen. Ca samples. No sampling times reported.**Amended coc 4/18/05 per Loretta via Reyna to add Pb to sample #08. GN :

	Signature	Print Name	Company	Date/Time
Received by:	Graciela Navarrete	G. Navarrete	Alpha Analytical, Inc.	4-18-05 2:45

NOTE: Samples are discarded 60 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for the report.

Matrix Type : AQ(Aqueous) AR(Air) SO(Soil) WS(Waste) DW(Drinking Water) OT(Other) Bottle Type: L-Liter V-Voa S-Soil Jar O-Orbo T-Tedlar B-Brass P-Plastic OT-Other