SFUND RECORDS CTR
137157

WABASH NATIONAL ®

September 4, 2002

Clifford R. Davis
Civil Investigator
U.S. Environmental Protection Agency, Region IX
75 Hawthorne Street, SFD-7-B
San Francisco, California 94105

Re: Response to Supplemental Request for Information

Dear Mr. Davis:

Enclosed please find additional materials concerning our response to your Supplemental Request for Information regarding the Motorola 52nd Street Superfund Site; Phoenix, Arizona: Fruehauf Trailer Services, Inc. facility located at 902 South 7th Street.

Please notify me if any additional information is needed. Thank you.

Sincerely,

Rick Bossingham
Director of Environmental Affairs
Wabash National Corporation
1000 Sagamore Parkway South
Lafayette, IN 47905

Phoenix - Fruehauf
Env. Fact. Sheet

FRUEHAUF TRAILER SERVICES, INC.
PHOENIX, ARIZONA
ENVIRONMENTAL FACT SHEET

1. Fruehauf has occupied this site since around 1945 and has operated it as a trailer sales and service business. Services associated with repairing trailers has historically included trailer washing and steam-cleaning at an outside wash/steam rack pad. Although the branch has not performed steam-cleaning of tank trucks in several years, it still offers and infrequently performs exterior trailer washing services. Wastewater generated on the wash rack currently flows into an approximately 2,000 gallon three chamber inground oil/water separator located at the north central end of the property. Wastewater is subsequently discharged directly into the city sewer system.

2. In early 1992, due to a pending sale of the Phoenix branch, Fruehauf contracted an environmental consulting firm to perform a Phase I environmental site assessment on the property. The results identified two areas of potential environmental concern. These included two abandoned underground storage tanks, one formerly used for storing gasoline (750 gallons) located in the driveway area, and the other formerly used for storing waste oil (1200 gallons) from historical steam-cleaning operations and located adjacent to the northwest corner of the building.

Fruehauf subsequently contracted Dominion Environmental to remove both tanks in accordance with all applicable state and federal regulations. Both tanks were removed in October 1993. The gasoline tank showed no signs of contamination and was clean closed. However, during the removal of the waste oil tank some contamination was discovered at the base of the excavation. Upon removal of contaminated soil the contractor discovered the presence of a dry well and more severe petroleum hydrocarbon contamination.

Dominion was authorized to perform over-excavation to attempt to remove all evidence of impacted soils. While conducting over-excavation, Dominion discovered a second dry well and evidence of groundwater impact at an estimated depth of 28 feet. Knowing that a clean closure through over-excavating was not possible and with the discovery of groundwater impact, Fruehauf decided to backfill the hole and proceed with a contamination assessment. Approximately 275 cubic yards of grossly petroleum contaminated soils was stockpiled on site. This soil underwent biological landfarm remediation over a period of three years and was finally removed by Chemical Waste Management for landfilling at a local CWM site in March 1996.

3. A review of available drawings dated 1945 showed that Fruehauf has installed a wash rack with the discharge going into a dry well. In 1969 a Josam oil/water separator and associated underground storage tank were installed in the immediate vicinity of the now abandoned dry well. In the late 1970's, the City of Phoenix deemed the oil/water separator inadequate treatment of generated wastewaters and required Fruehauf to install the current three chamber oil/water separator. The Josam separator and waste oil tank were abandoned inplace.

4. In December 1992, Fruehauf notified the Arizona Department of Environmental Qualify (ADEQ) of a release of petroleum product while conducting closure of the waste oil UST. Apparently a closure report for the removal of the gasoline tank was submitted to the UST Division of ADEQ and a clean closure granted. Unfortunately, there is no correspondence in the Fruehauf corporate file to confirm this.

The UST Division then informed Fruehauf that the cleanup of contamination originating from the dry well would have to be conducted in accordance with the DEQ's Solid Waste or Hazardous Waste Section standards.

5. Between January and November 1993, Dominion Environmental conducted several environmental sampling studies at the site, including the installation of four groundwater test wells, all screened at depths exceeding 50 feet.

The results of their contamination assessments showed two areas of contamination beneath the property. This included an area within close proximity of the former dry wells with petroleum hydrocarbon contamination to the soils, the most significant being 6,200 ppm at a depth of 30 feet. The other affected area was behind the site building at its southwest corner in the general vicinity of the shop. Of the four soil borings advanced in this area, two showed significant petroleum contamination ranging in concentration from 1500 to 32,000ppm and extending to a depth of 40 feet (8,500ppm). Dominion linked this contamination to the former dry well release. This is most likely not the case, since the extent of affected soil in the area of the dry well had been clearly defined. Instead, the petroleum contamination discovered behind the building was most probably related to historical dumping of petroleum waste onto the ground. The extent of petroleum contamination in the area behind the building has not been completely defined.

During this same period, Dominion conducted three groundwater sampling events of the four wells onsite. The results of which showed only trace levels of mainly chlorinated solvents in all four wells.

It is important to note, that the Fruehauf property resides within an area referred to by ADEQ as the "East Washington WQARF Project Area" , a regionally contaminated groundwater zone. Little information was contained in the Fruehauf corporate files which discusses this project in detail. To the best of Fruehauf's knowledge, the branch has not been named as an alleged contributor to the contaminated groundwater. The fact that the site exists within this area could benefit Fruehauf in achieving closure on the dry well (i.e. background levels will most likely be high).

6. Fruehauf and Dominion met with representatives from the DEQ's Solid Waste Section on May 12, 1993. At the meeting the ADEQ people informed Fruehauf that closure of the dry well had to be performed under the states Underground Injection Control (UIC) Program due to the fact that the this type of wastewater disposal system is classified as an Injection Well. Under the state's program for closing such systems, Fruehauf was asked to prepare and submit an Aquifer Protection Permit (APP) which includes a Remedial Action Workplan for investigating and remediating dry well related contamination.

Given the high levels of petroleum contamination to the soils beneath the site, there was mention of performing a risk assessment to arrive at a site specific total petroleum hydrocarbon cleanup standard, which would be significantly higher than the state's default standard of 100ppm.

7. Based on the environmental data collected to date (May 1993), related to the extent of contamination to the property, Fruehauf estimated the cost to cleanup the site (soils only) at between $350,000 to $420,000.

8. With the exception of a round of groundwater samples collected in November 1993, no effort had been made by Fruehauf to either close the dry well or to address remediating contamination. In addition, no correspondence between Fruehauf and ADEQ has been communicated since late 1993.

CURRENT SITE CONDITIONS

1. As stated above, the branch does not presently perform steam-cleaning services on tank trucks, but they do, from time to time, perform trailer washing on the wash rack. Wastewaters generated flow into an inground 2,000-gallon oil/water separator, the effluent from which flows directly into the city sewer.

2. Apparently, all four groundwater monitoring wells still remain onsite, and as indicated above have not been sampled since November 1993. As such the current contamination conditions is unknown both in the groundwater and soils beneath the site.

Phoenix - ATC PHASE I
2/28/97

ATC ENVIRONMENTAL INC.

February 28, 1997

Mr. Timothy L. McKowen
Vice President Manufacturing Services
Fruehauf Trailer Corporation
111 Monument Circle, Suite 3200
Indianapolis, Indiana 46204

Re: Phase I Environmental Site Assessment (ESA)
Fruehauf Trailer Corporation
902 South 7th Street
Phoenix, Arizona
ATC Project No. 00274.0002 Task 16

Dear Mr. McKowen:

ATC Associates, Inc. (ATC) has completed the Phase I Environmental Site Assessment (ESA) for the above referenced subject site. This report details the results of our findings based on visual reconnaissance, a limited asbestos survey, historical ownership and land use review, records and regulatory review, and related sources.

Based on the results of this assessment, further evaluation is warranted at this time.

We appreciate the opportunity to be of service to Fruehauf Trailer Corporation for this project and look forward to working with you on future assignments. In the meantime, if you have questions about information in this report or if we can be of further assistance, please contact us.

Sincerely,

ATC ASSOCIATES, INC.

James Riley
Senior Project Reviewer

Dana E. Williams
Senior Staff Scientist

TABLE OF CONTENTS

EXECUTIVE SUMMARY iii

1.0 INTRODUCTION 1

2.0 PHYSICAL SITE DESCRIPTION 4

2.1 General Site Conditions 7

2.2 Storage Tanks (USTs and ASTs) 7

2.2.1 Underground Storage Tanks (USTs) 7
2.2.2 Aboveground Storage Tanks (ASTs) 7

2.3 Polychlorinated Biphenyls (PCBs) 8

2.4 Asbestos-Containing Materials (ACMs) 9

2.5 Utilities 10

2.6 Waste Management and Chemicals Handling 10

2.7 Environmental Permits and Registrations 11

3.0 ADJACENT LAND USE 13

4.0 SITE HISTORY AND RECORDS REVIEW 14

4.1 Prior Ownership and Usage 14

4.2 Aerial Photography and Sanborn Fire Insurance MAPS 14

4.3 Regulatory Records Review 15

4.3.1 Federal 16
4.3.2 State 17

5.0 CONCLUSIONS AND RECOMMENDATIONS 23
6.0 QUALIFICATIONS 26
7.0 REFERENCES 29

APPENDICES

Appendix A: Site Location Map, and Site Diagram
Appendix B: Site Photographs
Appendix C: Records of Communication
Appendix D: Sanborn Map Information
Appendix E: Regulatory Research Database

EXECUTIVE SUMMARY

On February 13, 1997, ATC Associates, Inc. (ATC) performed a Phase I Environmental Site Assessment of the **Fruehauf Trailer Corporation property** located at 902 South 7th Street, Phoenix, Arizona, hereafter referred to as "the site". This included visual observations of the site and limited observations of surrounding properties, a review of historical ownership and land use, a review of regulatory database listings, interviews, and related sources.

Our findings indicate that two underground storage tanks (USTs) were removed from the site in 1992. A 750-gallon gasoline UST was located on the southeastern portion of the site. Laboratory results for soil samples collected from the vicinity of the former UST were reported to be below detection limits for total petroleum hydrocarbons and benzene, toluene, ethylbenzene, and xylene.

A 1,200-gallon UST was located on the northwestern portion of the site and was used in conjunction with a oil/water separator system associated with a former wash rack. During the removal activities, a drywell was found. Apparently, the rinse water from the former wash rack was drained into the drywell from the 1940's until the late 1960, when the 1,200-gallon UST was installed. Petroleum hydrocarbon impacted soil was found in the vicinity of the former 1,200-gallon UST and drywell. The impacted soil was stockpiled and partially bioremediated on-site. In March 1996, the impacted soil was transported off-site by Waste Management for additional bioremedial activities, and eventually lanfilled. Arizona Department of Environmental Quality does not appear to have granted closure for either the UST removals or dry well closure at this time. ATC recommends that Fruehauf take the necessary steps to achieve closure on both these environmental issues.

Four pole-mounted transformer were observed on site. They are located adjacent to the north side of the on-site building, and is owned by Arizona Public Services. Information pertaining to possible polychlorinated biphenyl (PCB) content has been requested from Arizona Public Services, however to date, has not been received. Until PCB content can be verified, these transformers should be considered a potential source of PCBs. However, at the time of this evaluation, evidence of damage or past or present leakage or spills was not apparent. Therefore, they are not considered an immediate concern.

As part of this assessment, a visual screening was conducted to identify suspect asbestos-containing materials (ACMs) and evaluate their general appearance. Suspect ACMs observed in the on-site building include drop ceiling panels, vinyl floor sheeting and associated adhesive mastic, wall plaster, gypsum wallboard and joint compound, and roofing materials. The observed suspect ACMs appeared to be in good condition; therefore, the materials may remain at the site if they remain in their present state.

The Occupational Safety and Health Administration (OSHA) Asbestos Standards require that thermal systems insulation and vinyl floor tile present in buildings constructed prior to 1981 be presumed to contain asbestos until analytical testing indicates otherwise. Since the building was reportedly constructed in the 1940's, these materials should be presumed to contain asbestos. These suspect ACMs should be placed under an Operations and Maintenance (O&M) plan which will outline procedures, record keeping, and personal protection practices which must be implemented in order to maintain the suspect ACMs within the building. Asbestos content can only be verified by sampling and analysis, through a review of building construction documents, manufacturer's documentation, or a combination of these.

Operations at the site were evaluated with respect to compliance to certain environmental regulations. The objective of the cursory review was to identify operations for which the facility has an existing compliance permit to perform a particular operation. manifests, etc. made available to ATC during and subsequent to the site visit. This overview was not a compliance audit. A paint booth located on the western portion of the building was reported to be permitted through Maricopa County. However, a three stage separator, associated with the current wash rack located on the northwestern portion of the site was reported not to be permitted. A permit may be required for the operation of this unit.

The entire one-mile radius surrounding the subject site was identified as a Arizona Department of Environmental Quality Water Quality Revolving Fund area. Two project area, identified as West Van Buren and East Washington were reported. West Van Buren project areas includes nine impacted groundwater plumes within an approximately 25 square mile area. Groundwater within this project area was reported to have been impacted with various volatile organic compounds and petroleum products. The East Washington study area consists of approximately 24 square miles. Groundwater within this study area was reported to have been impacted with various volatile organic compounds. Periodic review of regulatory data pertaining to regional groundwater degradation is recommended..

PHASE I ENVIRONMENTAL SITE ASSESSMENT

Fruehauf Trailer Corporation
902 South 7th Street
Phoenix, Arizona
ATC Project Number: 00274.0002 Task 16

1.0 INTRODUCTION

On February 5, 1997, ATC Associates, Inc. (ATC) was authorized by Mr. Timothy McKowen, V.P. Manufacturing Services, for Fruehauf Trailer Corporation (Fruehauf), to conduct a Phase I Environmental Site Assessment (ESA) of the Fruehauf property, located at 902 South 7th Street in Phoenix, Arizona. The site is occupied by one large building containing offices, trailer repair areas, and a parts storage area. This assessment was conducted in accordance with ATC **Proposal No. 54970079, dated February 5, 1997.**

The primary purpose of this assessment was to identify documented and potential chemical contamination on the subject site from on-site or off-site sources.

In accordance with the above-referenced agreement, ATC performed walk-through observations of the site and buildings, noted use of adjacent properties, and conducted a search of readily available historical and regulatory records. More specifically, the scope of services included the following:

- Visual observations of the site, structures, and surrounding properties were made to identify potential sources or indications of chemical contamination such as underground storage tanks (USTs), aboveground storage tanks (ASTs), potential sources of polychlorinated biphenyls (PCBs), chemicals and hazardous materials, areas with surface stains or distressed vegetation.

- In addition, the immediately adjacent properties were observed from the site, without being entered, for possible sources of contamination or environmental impairment which could migrate to the site via surface water runoff, groundwater transport, or other pathways. A review was made of available published geological and groundwater information obtained for the site vicinity.

- A review was made of available published geological and groundwater information obtained from the State of Arizona Department of Water Resources.

- A preliminary visual screening was made of readily visible and accessible suspect building materials to evaluate the possible presence and condition of asbestos-containing materials (ACMs).

- A 75 year review of recorded chain-of-ownership information. A review of historical aerial photographs and Sanborn Maps for the site and adjacent properties was conducted to evaluate previous land use.

- The following regulatory records and databases were reviewed to identify use, generation, storage, treatment, or disposal of hazardous materials, or releases of such materials which may impact the site: Comprehensive Environmental Response, Compensation and Liability Information System (CERCLIS), National Priorities List (NPL), Resource Conservation and

Recovery Act (RCRA) Information System (RCRIS), Emergency Response Notification System (ERNS), Arizona registered underground storage tanks (USTs), Arizona leaking underground storage tank incident reports (LUST), Arizona solid waste facilities/landfill sites (SWF/LS), and the Arizona state hazardous waste sites (SHWS).

Site representatives and other persons familiar with the site were interviewed with regard to the possible past or present use of potentially hazardous materials at the site.

2.0 PHYSICAL SITE DESCRIPTION

The subject site is located at 902 South 7th Street in Phoenix, Arizona. It is bound to the north by Road Machinery Company and a warehouse building, on the south by Road Machinery Used Parts Department and South 5th Street, on the east by South 7th Street with Aqua Save beyond, and on the west by a Christmas tree stand manufacturer. The Site Location Map (Figure 1) shows the location of the site in Phoenix, Arizona. The Site Plan (Figure 2) shows the site buildings and adjacent properties in greater detail.

The site visit was conducted by Mr. Dana Williams, ATC Senior Staff Scientist, on February 13, 1997, from 9:00 a.m. to 12:00 p.m. He was accompanied by Mr. Rod Reed, Branch Manager with Fruehauf Trailer Corporation.

At the time of the site visit, the weather was clear and sunny and observations of the site were good. The site visit consisted of a walk-through of the building on site and a walk around the perimeter of the site.

In addition to the site visit, readily available resources including soil surveys, site maps, United States Geological Survey (USGS) topographic maps, and regulatory records were reviewed. Referenced documents are included in Section 7.0.

2.1 General Site Conditions

The site comprises approximately 3.8 acres with an approximate 24,247 square foot building. Fruehauf Trailer Corporation utilizes the on-site building for office, trailer repair, and trailer parts sales purposes. The paved area to the southern portion of the site is utilized for trailer storage and parking.

The on-site building was reported to have been constructed in the 1940's. Generally, it is a slab-on-grade, aggregate and concrete, single-story building, without a basement. The eastern portion of the building houses the offices and parts sales area, the central portion houses the shop areas, and the western portion houses the paint booth and wash rack (see Appendix A - Figure 2).

Activities conducted in the shop area associated with the repair of semi-trailers included welding, metal fabrication, sandblasting, and painting. A wash rack/sandblasting room is located on the western end of the building. A floor drain in this area is connected to a three stage oil/water separator unit located outside the northwest corner of the building. The unit was reported to have been installed in 1979. Rinse water from the wash rack was reported to pass through the separator prior to entering the municipal sewer system. Mr. Reed was not aware of any permit requirements for the separator. The separator was reported to be cleaned on an annual basis by an outside contractor. An air compressor was noted in the northern portion of the shop area. Blowdown from the compressor was noted to drain onto the asphalt pavement outside the building via a rubber tube that passes through the outside wall. Minor surface staining was noted on the asphalt pavement.

In addition, three monitoring wells, further discussed in Section 4.2.3, were noted on the southeastern, central, and northwestern portions of the site.

The interior walls of the offices and reception area consist of hard wall plaster and drywall. The floors are either carpeted or covered with floor tile, and the ceiling is comprised of 2'x4' dropped ceiling panels. The shop area and warehouse have concrete floors. The heating, ventilation, and air-conditioning (HVAC) system consists of gas supplied furnaces and air conditioning units located on the roof.

One dumpster was observed on the west side of the building. The dumpster is emptied by Waste Management on an as needed basis. Four pole-mounted transformers were located adjacent to the north side of the building. The area adjacent to the transformers and dumpster appeared to be free of staining.

According to the USGS 7.5 minute Phoenix, Arizona Quadrangle Topographic Map, the subject site is approximately 1,100-feet above mean sea level, with a relatively level topography. Surface water runoff does not appear to enter the site from adjacent properties. Site surface water is collected in storm sewers located along South 7th Street. Ultimately, storm water discharges to the Salt River, located approximately one mile south of the site.

Geologically, the site is located on a large, level alluvial plain composed of valley-fill deposits according to a July, 1986 State of Arizona Department of Water Resources (DWR) report. The valley-fill deposits are reported to be extremely heterogeneous. Specifically, the site is located within the West Salt River Valley Subbasin. The East and West Salt River Valley Subbasins include approximately 3,177 square miles and are largely broad alluvial plains drained by the Salt and Gila Rivers. The subbasins are bounded to the east by the Mazatzal, Usery, Goldfield, and Superstition Mountains; to the south by the Sacaton, Sierra Estrella, South Mountains, and Buckeye Hills; to the west by the White Tanks Mountains; and to the north by the Hieroglyphic,

Wickenburg, and New River Mountains and the New River Mesa. The two subbasins are separated by the Phoenix Mountains, Papago Buttes, and Union Hills.

Aquifers underlying the site consist of a shallow upper aquifer and a deep aquifer separated by a fine silt aquitard approximately 100 feet thick. The upper aquifer consists primarily of sand, gravel, and silt with some minor, thin, discontinuous clay layers. According to a piezometric map included in the DWR report, groundwater depth in the site vicinity is approximately 70 feet below ground surface (BGS). The gradient was reported to be toward the west.

2.2 Storage Tanks (USTs and ASTs)

2.2.1 Underground Storage Tanks (USTs)

According to Mr. Ron Reed, two USTs were removed from the site approximately five years ago. A 750-gallon gasoline UST was located on the southeastern portion of the site. A 1,200-gallon UST was located on the northwestern portion of the site and was used in conjunction with an oil/water separator system for tanker steam cleaning operations on the wash rack pad. Refer to section 4.3.2 for further discussion on these tank removals. No evidence of existing USTs was noted at the site.

2.2.2 Aboveground Storage Tanks (ASTs)

No evidence of ASTs was noted at the site. In addition, historically, there does not appear to have been ASTs located on-site.

2.3 Polychlorinated Biphenyls (PCBs)

Polychlorinated Biphenyls (PCBs) are used as coolants, dielectric fluids, or lubricating oils used in some electrical transformers, light ballasts, electrical panels or other similar equipment. PCB content in electrical transformers has been categorized into three categories by the federal government:

0 - 50 ppm	non-PCB unit
50 - 500 ppm	PCB contaminated unit
>500 ppm	PCB unit

Utility companies often own transformer equipment and typically assume the responsibility for repair or replacement of damaged or leaking units and for required cleanup or remediation activities. Indications of damage or leakage should be immediately reported to the responsible utility company.

Four pole-mounted transformers were observed on site. They are located adjacent to the north side of the on-site building, and are owned by Arizona Public Services. ATC contacted Arizona Public Services, to obtain information on the transformers. To date, the information has not been received. Pertinent information will be forwarded upon receipt. Until PCB content can be verified, these transformers should be considered a potential source of PCBs. However, at the time of this evaluation, evidence of damage or past or present leakage or spills was not apparent. Therefore, they are not considered an immediate concern.

Fluorescent lights were observed throughout the building. Fluorescent light ballasts manufactured prior to 1979 may contain small quantities of PCBs. Due to access limitations, a minimum number of light ballasts were examined for labels identifying their PCB-content. The labels of the inspected light fixtures indicated that the ballasts are Non-PCB containing; however, ATC cannot

assume that all ballasts are the same type throughout the facility. In lieu of this, they should be considered a potential source of PCBs. However, since evidence of damage or leaking was not observed, they do not pose an immediate concern. During routine maintenance they should be checked for "non-PCB" labels. If labels are not observed, leaking or large numbers of ballasts should be handled and disposed according to local waste handling requirements for PCB units.

Other equipment potentially containing PCBs was not observed on site.

2.4 Asbestos-Containing Materials (ACMs)

Typical building materials that contain asbestos are found in a variety of types and uses. Frequently-encountered types of ACMs used in building construction include floor tile, sheet flooring, mastic, ceiling tile, spray-applied acoustical/decorative ceiling materials, plaster, wallboard and wallboard joint compound, insulations, roofing and flashing, and many other materials in common usage.

ACMs identified as "friable" (capable of being crumbled, pulverized, or reduced to powder by hand pressure) have a greater potential for release of fibers to the atmosphere and are therefore of greater concern than non-friable ACMs. Non-friable materials such as floor tile can be rendered friable if disturbed by maintenance or renovation activities. Friable ACMs that are in good condition are not necessarily releasing fibers into the air.

As part of this assessment, a visual screening was conducted to identify suspect ACMs and evaluate their general appearance. Suspect ACMs observed in the on-site building include dropped ceiling tiles, vinyl floor sheeting and adhesive mastic, gypsum wallboard and joint compound, wall plaster, and roofing materials. All of the observed suspect ACMs appeared to be

in good condition; therefore, the materials may remain at the site if they remain in their present state. The Occupational Safety and Health Administration (OSHA) Asbestos Standards require that thermal systems insulation and vinyl floor tile present in buildings constructed prior to 1981 be presumed to contain asbestos until analytical testing indicates otherwise. Since the building was reportedly constructed in the 1940's, these materials should be presumed to contain asbestos. These suspect ACMs should be placed under an Operations and Maintenance (O&M) plan which will outline procedures, record keeping, and personal protection practices which must be implemented in order to maintain the suspect ACMs within the building. Asbestos content can only be verified by sampling and analysis, through a review of building construction documents, manufacturer's documentation, or a combination of these.

2.5 Utilities

The City of Phoenix supplies the site with water and sewage services. Electricity is supplied by Arizona Public Services. Potential environmental concerns were not identified with the on-site utilities.

2.6 Waste Management and Chemicals Handling

Solid waste generated on site, such as cardboard, paper, and municipal waste, is disposed of in a dumpster which is emptied on a regular basis. Only municipal-type waste was observed in the dumpster at the time of the site observation visit.

A 55-gallon drum labeled to contain waste oil was noted outside of the shop area. The waste oil is generated from draining brake hubs associated with the trailers. The waste oil was reported to be periodically transported off-site for disposal by Environmental Products. A parts cleaner was

also noted outside of the shop area. The unit utilizes petroleum naphtha and is periodically serviced by Safety Kleen Company. A 55-gallon drum of acrylic thinner along with several one-gallon cans of various paints were noted in a metal storage shed located on the northern portion of the site. A 100-gallon metal container of hydraulic oil along with a 55-gallon drum of gear oil were noted within the shop area. In addition, several gas cylinders were also observed in the shop area and were chained to the wall. The containers of thinner, paint, and oil were observed to be undamaged, clearly labeled and capped, with no apparent evidence of spills. They were stored on wooden pallets, on unbroken concrete or asphalt floors, and in areas with no apparent drains. Spill control materials, such as absorbent booms and pads were not observed on the site.

A 100-gallon metal container of hydraulic oil along with a 55-gallon drum of gear oil were noted within the shop area. In addition, several gas cylinders were also observed in the shop area and were chained to the wall. The containers of thinner, paint, and oil were observed to be undamaged, clearly labeled and capped, with no apparent evidence of spills. They were stored on wooden pallets, on unbroken concrete or asphalt floors, and in areas with no apparent drains. Spill control materials, such as absorbent booms and pads were not observed on the site.

The facility generates municipal solid waste as well as scrap metal and used oil. As previously mentioned the used oil is transported off site by Environmental Products and approximately one drum of waste oil is generated a year.

2.7 Environmental Permits and Registrations

Operations at the site were evaluated with respect to certain environmental regulations. The objective of the cursory review was to identify operations for which the facility has a permit or registration for regulatory compliance purposes. This overview was not a compliance audit.

According to information obtained during the site visit, the on-site paint booth is permitted through Maricopa County (Permit Number A8601040). The three stage separator was not reported to be permitted, although a permit may be required.

3.0 ADJACENT LAND USE

The area surrounding the subject site is commercial and industrial. More specifically, it is bound to the north by Road Machinery Company and a warehouse building, on the south by Road Machinery Used Parts Department and South 5th Street, on the east by South 7th Street with Aqua Save beyond, and on the west by a Christmas tree stand manufacturer. The Site Location Map (Figure 1) shows the location of the site in Phoenix, Arizona. The Site Plan (Figure 2) shows the site buildings and adjacent properties in greater detail.

Based on visual observation and site topography, no immediate environmental concerns were identified with respect to adjacent property activities.

4.0 SITE HISTORY AND RECORDS REVIEW

Past land uses were investigated to identify historical practices or conditions which may have impacted the subject site. This included interviews with present owners, an analysis of aerial photographs, and Sanborn fire insurance maps. Regulatory records were also reviewed to determine if the subject site or other facility within specified distances from the subject site is or has been subject to regulatory action by federal, state or local environmental agencies.

4.1 Prior Ownership and Usage

According to Mr. Ron Reed, the site has been occupied by Fruehauf since the 1940's and has been utilized for truck trailer parts sales and repair activities. Mr. Reed had no information pertaining to prior land use.

A 75-year Chain of Title report was request from Blanks Title, Phoenix, Arizona. To date, the report has not been received but will be forwarded under cover letter to Fruehauf

4.2 Aerial Photography, Building Permits, and Sanborn Fire Insurance Maps

Aerial photographs, dated 1940, 1949, 1954, 1964, 1970, 1977, and 1990, were reviewed at Rupp Aerial Photography, Phoenix, Arizona. The 1940 aerial photograph showed the site and adjacent properties as vacant. The 1949 aerial photograph showed the current Fruehauf building. The 1949 through 1964 aerial photographs showed the current warehouse building to the north along with a small building on the current Road Machinery property; a small building and vacant land to the south; the current Aqua Save building to the east; and unpaved land to the west. The

1970 through 1990 aerial photographs showed the site and adjacent properties approximately as they were noted during the site visit.

Building permits for the site were reviewed at the Phoenix Department of Building and Safety. Original permits for the construction of the current Fruehauf building were not on file. Various alteration and sign permits from 1961 to 1980 were on file. Also on file was a permit dated July 1, 1978 calling for the installation of an oil interceptor and underground oil storage (waste) tank.

Sanborn maps dated 1947, 1949, and 1968 were provided for review. Only the site and the northern adjacent properties were indicated on the maps. The site occupant was reported to be Fruehauf on each of the Sanborn maps. The 1947 and 1949 maps reported Zuendel Box Company and Whol. Grocers to the north of the site. The 1968 map reported the current Road Machinery facility and warehouse building to the north.

No readily apparent environmental concerns, such as landfills, stockpiled materials, or illegal dumping, were disclosed by reviewing the aerial photographs or the Sanborn Maps.

4.3 Regulatory Records Review

A review of databases and files from federal, state, and local environmental regulatory agencies was conducted to identify use, generation, storage, treatment or disposal of hazardous materials and chemicals or release incidents of such materials which may impact the subject site. The records reviewed included: Comprehensive Environmental Response, Compensation and Liability Information System (CERCLIS), National Priorities List (NPL), Resource Conservation Recovery Act (RCRA) Information System (RCRIS), RCRA Administrative Action Tracking System (RAATS) for Section 3008 complaint orders, Emergency Response Notification System

(ERNS), Arizona state registered underground storage tanks (UST), Arizona state leaking underground storage tank incident reports (LUST), Arizona state solid waste facilities/landfill sites (SWF/LS), Arizona state hazardous waste sites (SHWS), and other local records.

The federal and state commercial database includes sections entitled "unmappable sites". The locations of these facilities listed in this section cannot be mapped due to incomplete or inaccurate information. ATC reviews this section and compares the names and addresses (if available) with information generated during the vehicular reconnaissance. If the cross reference cannot be made, it is assumed that the facilities are not within the search radius.

4.3.1 Federal

The United States Environmental Protection Agency (USEPA) National Priorities List (NPL) database files, updated June 1, 1996, were reviewed to identify facilities within an approximate one-mile radius of the site which have been determined to represent a possible threat to public health or the environment. The subject site was not listed nor were any other facilities listed within this radius.

The USEPA Comprehensive Environmental Response, Compensation and Liability Information System (CERCLIS) database listing, updated March 31, 1996, of known, alleged, or potentially hazardous waste sites was reviewed. A site's presence on the CERCLIS list does not imply federal activity at that location, nor does it indicate that hazardous conditions necessarily exist. The subject site was not included on this list nor were any other facilities listed within this radius.

The USEPA Resource Conservation and Recovery Act (RCRA) Notifiers database list, updated October 31, 1996, and the RCRA Administrative Action Tracking System (RAATS) list were

reviewed to identify facilities which generate, treat, transport, store, and dispose of hazardous waste within an approximate quarter-mile radius of the site. More specifically "large quantity generators" and transportation, storage, and disposal facilities (TSDF) were noted. A facility's inclusion on this list does not necessarily indicate that hazardous conditions exist at that location. The subject site was not listed on the RCRIS database, and no large quantity generators (LQG) were listed. However, seven small quantity generators (SQGs) were identified within the quarter-mile radius. Five of these facilities are located south, west, and north of the site in crossgradient and downgradient locations. Therefore, because no spills or releases have been identified for these facilities, they are not considered an environmental concern to the site. The remaining facility, Petroleum Recycling Products, is located approximately 0.25 mile to east of the site. Due to the distance and because no spills or releases have been identified with this facility, it is not considered an environmental concern to the site.

The USEPA's Emergency Response Notification System (ERNS) list includes spills from either CERCLA- or SARA-type chemicals or spills covered by the Clean Water Act. It should be noted that the ERNS database is generally not well maintained by the USEPA. Incomplete or misleading addresses or missing zip codes often makes identification of the location of the spill difficult. Therefore, only spills reported for the target property were researched. Database files from the ERNS list, updated June 30, 1996, were reviewed to identify chemical releases associated with the subject site. The subject site was not listed in the database.

4.3.2 State

The database list of registered USTs maintained by the Arizona Department of Environmental Quality, updated February 7, 1997, was reviewed to identify facilities within an approximate quarter-mile radius of the site. The subject site was listed as formerly having two steel USTs. As previously discussed, the USTs were removed in 1992.

Twenty UST facilities were identified within this search radius. Only one of the facilities is located upgradient from the site. The facility, identified as Arnett Transportation at 830 East Sherman Street had two former 12,000 gallon gasoline USTs and one current 559-gallon used oil UST. This facility is reported to have experienced an unauthorized release and is further discussed in the following section. The remaining nineteen facilities are located downgradient and crossgradient from the site. Due to their distance and direction from the site, these nineteen facilities are not considered an environmental concern to the subject site.

The Leaking Underground Storage Tank (LUST) list maintained by the Arizona Department of Environmental Quality, updated October 7, 1996, was reviewed to identify LUST facilities within a half-mile radius of the subject site. The subject site along with eighteen other facilities were listed within the search radius.

According to a UST Closure and Environmental Assessment conducted at the site by Dominion Environmental Consultants (DEC), a 750-gallon UST was located on the southeastern portion of the site and a 1,200-gallon UST was located on the northwestern portion of the site. Both USTs were removed 1992. The 750 gallon UST was reported to have stored gasoline, and the 1,200-gallon UST was used in conjunction with a oil/water separator system associated with a former wash rack that was located to the west of the current wash rack.

Following the removal of the 750-gallon UST, two soil samples were collected at a depth of approximately eight feet below ground surface (BGS) from the tank excavation. The samples were analyzed for total petroleum hydrocarbons (TPH) and benzene, toluene, ethylbenzene, and xylene (BTEX) in general accordance with ADEQ Method No. BLS-181 and EPA Method No. 8020. Laboratory results were reported to be below detection limits, the excavation was

backfilled, and no further action was recommended by DEC in association with the 750 gallon UST.

Heavy soil staining was noted during the removal of the 1,200 gallon UST and was stockpiled. Two soil sample were collected at a depth of approximately 10 feet BGS from the tank excavation, and another was collected from the soil stockpile. The samples were analyzed for TPH and chlorinated hydrocarbons in general accordance with ADEQ Method No. BLS-181 and EPA Method No. 8010. The sample collected from the north end of the former tank pit was reported to be below detection limits for each analyte. The sample collected from the south end of the former tank pit was reported be below detection limits for chlorinated hydrocarbons, but had a TPH concentration of 320 milligrams per kilogram (mg/kg), in excess of the ADEQ suggested soil clean-up level (SSCL) of 200 mg/kg. The sample collected from the stockpile was reported to have a TPH concentration of 4,600 mg/kg and chlorinated hydrocarbons were not detected. In addition, during removal of the 1,200 gallon UST, a drywell was discovered in the excavation. DEC recommended that the area in the vicinity of the 1,200 gallon UST and drywell be investigated further and the impacted stockpiled soil be remediated or disposed. The unauthorized release was reported to ADEQ on December 16, 1992.

According to a letter from Fruehauf to ADEQ dated January 13, 1993, impacted soil in the vicinity of the 1,200 gallon UST was believed to have originated from the drywell and not the UST. A Apparently, a wash rack had been originally installed in 1945 on the northwestern portion of the site. Rinse water from the wash rack was reported to have been drained into the drywell until 1969. That year, a oil/water separator system, that included a UST, was installed adjacent to the former wash rack. This system was utilized until 1979. At that time, a three chamber oil/water separator and the current covered wash rack were installed on the western end of the building.

The letter further indicated that approximately 100 cubic yards of soil was excavated to a depth of approximately 28 feet BGS in the vicinity of the 1,200 gallon UST, drywell, and former wash rack and a second drywell was found. Fruehauf proposed utilizing electromagnetic offset logs to provide a three dimensional view of the impacted soil and to install three monitoring wells, noted during the site visit, to assess possible groundwater impacts. No monitoring data was on file with ADEQ.

According to information provided by Mr. Rod Reed, Branch Manager with Fruehauf Trailer Corporation, attempts were made to bioremediate the impacted soil at the site. These attempts were reported to be too time consuming and the impacted soil was then transported off-site for disposal. In March 1996, approximately 250 tons of impacted soil was transported off-site by Waste Management for additional bioremediation and subsequently landfilled.

It should be noted that the site has not been granted closure by ADEQ, either for the UST removals or the dry well closure. It is ATC's understanding that Fruehauf had previously been working with ADEQ to close the dry well through the state's underground injection control program.

Of the remaining eighteen LUST facilities, only three are located upgradient from the site and one is located adjacent to the site. The adjacent facility, identified as Road Machinery Co., at 716 South 7th Street, is located to the north of the site, was reported to have experienced an unauthorized waste oil release which impacted only soil. The case was reported to have been closed by ADEQ on September 8, 1994. Based upon this information, this release is not considered an environmental concern to the subject site.

The other two upgradient facilities, identified as Arnett Transportation at 830 East Sherman Street and Dallas Smith Engr Corp at 1102 East Tonto Street, are located approximately 700 feet and 4,000 feet to the east of the site, respectively. According to files reviewed at ADEQ regarding Arnett Transportation, this facility experienced an unauthorized gasoline release in which only the soil was impacted. Based upon this information, this facility is not considered an environmental concern to the subject site.

As mentioned earlier, Dallas Smith Engr Corp is located approximately 4,000 feet from the site. Due to the distance, this facility is not considered an environmental concern to the subject site.

The database files from the Arizona Department of Environmental Quality, Directory of Solid Waste Facilities, updated October 8, 1996, were reviewed regarding state solid waste facilities/landfill sites (SWF/LS) within a half-mile of the subject site. No landfill or solid waste disposal facilities were identified on the subject site or within the specified radius.

The Arizona state hazardous waste sites (SHWS) list was reviewed to identify sites targeted for corrective action by the Arizona Department of Environmental Quality within a one-mile radius of the subject site. The subject site was not listed, however, 30 facilities within the specified radius were listed. Only one facility is located within one-half mile radius and upgradient from the site. The facility, identified as Checker Cab at 8th Place and Sherman, is located approximately 700 feet to the west of the site. According to the database report, this facility was also a CERCLIS facility. However, upon completion of a Preliminary Assessment, no further regulatory action was required at this facility. Based upon this information and the distance of the remaining facilities, these facilities are not considered an immediate environmental concern to the subject site.

The ADEQ Water Quality Assurance Revolving Fund (WQRF) list was reviewed regarding facilities which may have an actual or potential impact upon waters within the State of Arizona. Facilities within a one-mile radius of the subject site were reviewed. The subject site was not listed, however, the entire one-mile radius surrounding the subject site was identified as a WQRF area. Two project areas and one facility, identified as West Van Buren, East Washington, and East Washington Area Fluff were reported. West Van Buren project area includes nine impacted groundwater plumes within an approximate 25 square mile area. Groundwater within this project area was reported to have been impacted by several sources with various volatile organic compounds and petroleum products. In addition, remedial investigations by responsible parties are underway.

The East Washington study area, which includes the East Washington Area Fluff, consists of approximately 24 square miles. Groundwater within this study area was reported to have been impacted with various volatile organic compounds. In addition, remedial investigations by responsible parties are underway.

Based upon this information, it is likely groundwater beneath the site has been impacted by multiple sources. Periodic review of regulatory data pertaining to regional groundwater degradation is recommended..

5.0 CONCLUSIONS AND RECOMMENDATIONS

This Phase I Environmental Site Assessment included a reconnaissance visit to the subject site, a limited survey of suspect asbestos-containing materials (ACMs), a review of the previously listed available environmental database and related agency information for the site and surrounding properties, interviews, prior ownership records, aerial photographs, published geologic information, and other related items. This information was used to evaluate existing or potential environment impairment of the site due to current or past land use disclosed by this study. The findings of this assessment revealed the following:

Our findings indicate that two underground storage tanks (USTs) were removed from the site in 1992. A 750-gallon gasoline UST was located on the southeastern portion of the site. Laboratory results for the soil samples collected from the vicinity of the former UST were reported to be below detection limits for total petroleum hydrocarbons and benzene, toluene, ethylbenzene, and xylene.

A 1,200-gallon UST was located on the northwestern portion of the site and was used in conjunction with a oil/water separator system associated with a former wash rack. During the removal activities, a drywell was found. Apparently, the rinse water from the former wash rack was drained into the drywell from the 1940's until the late 1960, when the 1,200-gallon UST was installed. Petroleum hydrocarbon impacted soil was found in the vicinity of the former 1,200-gallon UST and drywell. The impacted soil was stockpiled and partially bioremediated on-site. In March 1996, the impacted soil was transported off-site by Waste Management for additional bioremedial activities, and eventually lanfilled. Arizona Department of Environmental Quality does not appear to have granted closure for either the UST removals or dry well closure at this time. ATC recommends that Fruehauf take the necessary steps to achieve closure on both these environmental issues.

Four pole-mounted transformers were observed on site. They are located adjacent to the north side of the on-site building, and are owned by Arizona Public Services. Information pertaining to possible polychlorinated biphenyl (PCB) content has been requested from Arizona Public Services, however to date, has not been received. Until PCB content can be verified, these transformers should be considered a potential source of PCBs. However, at the time of this evaluation, evidence of damage or past or present leakage or spills was not apparent. Therefore, they are not considered an immediate concern.

As part of this assessment, a visual screening was conducted to identify suspect asbestos-containing materials (ACMs) and evaluate their general appearance. Suspect ACMs observed in the on-site building include dropped ceiling tiles, vinyl floor sheeting and associated adhesive mastic, wall plaster, gypsum wallboard and joint compound, and roofing materials. The observed suspect ACMs appeared to be in good condition; therefore, the materials may remain at the site if they remain in their present state. The Occupational Safety and Health Administration (OSHA) Asbestos Standards require that thermal systems insulation and vinyl floor tile present in buildings constructed prior to 1981 be presumed to contain asbestos until analytical testing indicates otherwise. Since the building was reportedly constructed in the 1940's, these materials should be presumed to contain asbestos. These suspect ACMs should be placed under an Operations and Maintenance (O&M) plan which will outline procedures, record keeping, and personal protection practices which must be implemented in order to maintain the suspect ACMs within the building. Asbestos content can only be verified by sampling and analysis, through a review of building construction documents, manufacturer's documentation, or a combination of these.

Operations at the site were evaluated with respect to certain environmental regulations. The objective of the cursory review was to identify operations for which the facility has an existing compliance permit to perform a particular operation, manifests, etc. made available to ATC during and subsequent to the site visit. This overview was not a compliance audit. A paint booth located on the western portion of the building was reported to be permitted through Maricopa County.

However, no permit associated with a three stage separator was found. A permit may be required for the operation of this unit.

The entire one-mile radius surrounding the subject site was identified as a Arizona Department of Environmental Quality Water Quality Revolving Fund area. Two project area, identified as West Van Buren and East Washington, were reported. West Van Buren project area includes nine impacted groundwater plumes within an approximately 25 square mile area. Groundwater within this project area was reported to have been impacted with various volatile organic compounds and petroleum products. The East Washington study area consists of approximately 24 square miles. Groundwater within this study area was reported to have been impacted with various volatile organic compounds. It is likely groundwater beneath the site has been impacted by multiple off-site sources. Periodic review of regulatory data pertaining to regional groundwater degradation is recommended..

Pending review of outstanding chain-of-title information, ATC has no additional recommendations for the site at this time.

6.0 QUALIFICATIONS

Our professional services have been performed, our findings obtained, and our recommendations prepared in accordance with customary principles and practices in the fields of environmental science and engineering. This statement is in lieu of other statements either expressed or implied. This company is not responsible for the independent conclusions, opinions or recommendations made by others based on the records review, site observations, field exploration, and laboratory test data presented in this report.

Phase I environmental evaluations are inherently limited in the sense that conclusions are drawn and recommendations developed from information obtained from limited research and site evaluation. For these types of evaluations, it is often necessary to use information prepared by others and ATC cannot be responsible for the accuracy of such information. Additionally, the passage of time may result in a change in the environmental characteristics at this site and surrounding properties. This report does not warrant against future operations or conditions, nor does this warrant operations or conditions present of a type or at a location not investigated. This report is not a regulatory compliance audit.

This assessment was performed on behalf of and solely for the exclusive use of Fruehauf Trailer Corporation. The scope of services performed in execution of this evaluation may not be appropriate to satisfy the needs of other users, and use or re-use of this document or the findings, conclusions, or recommendations is at the risk of said user. Additionally, no other company, entity or person shall have any rights with regard to ATC's contract with the above client, including but not limited to indemnification by ATC, or any rights of reliance on the findings, conclusions and recommendations of this or any subsequent reports regarding the referenced site.

A preliminary screening was made to identify accessible, friable and non-friable, suspect ACM. Should additional suspect ACM be identified in areas not screened, those areas should be treated as asbestos-containing until further evaluation and analysis can be performed during maintenance, renovation, demolition, or other activities. ATC performed this screening only on materials in readily accessible and visible areas. Hidden materials such as inside walls, inaccessible attics, crawl spaces, inside duct work, etc. were not evaluated.

Subsurface conditions were not field investigated as this was outside the scope of this study and may differ from the conditions implied by the surficial observations. This study is not intended to assess or otherwise determine if soil contamination, waste emplacement, or groundwater contamination exists. These data are accessible only by subsurface material and groundwater sampling through the completion of soil borings and the installation of monitoring wells. The scope of work, in accordance with our agreement, did not include these activities.

It must be noted that no evaluation, no matter how thorough, can absolutely rule out the existence of hazardous materials at a given site. This assessment has been based upon prior site history and observable conditions. Although the results of this study suggest that it is unlikely that hazardous materials exist at the site and that no further study is needed, existing hazardous materials and contaminants can escape detection using these methods. Therefore, if a higher level of confidence is required than can be defined by the Phase I scope of work, then additional evaluation would, of course, be required.

Our conclusions regarding the potential environmental impact of nearby, off-site facilities on the subject site are based on readily available information from the environmental databases and the assumed groundwater flow direction. A detailed file review of each facility was beyond the scope of work. Actual groundwater conditions, including direction of flow, can only be determined through the installation of monitoring wells.

Our preliminary asbestos visual screening was non-destructive in nature. Conditions or materials which were not visually observed on the surface were not inspected and may differ from those observed. It was not within the scope of this evaluation to remove surfacing materials or sample building materials beneath the surface. Our selection of sample locations and frequency is based on our observations and the assumption that like materials in the same area are homogeneous. Under no circumstances is this report to be utilized as a bidding or project specification document for abatement purposes.

7.0 REFERENCES

Printed Material:

State of Arizona Department of Water Resources, Groundwater Conditions in Maricopa County, dated July 1986.

Environmental Data Resources, Inc. (EDR) Radius Map with Geocheck, Inquiry Number 0158301.3r, dated February 6, 1997.

UST Closure Report, Dominion Environmental Consultants, dated November 30, 1992.

United States Geologic Survey (USGS), "7.5 Minute Series Topographic Map, Phoenix, Arizona," dated 1952 - revised 1982.

Interviews:

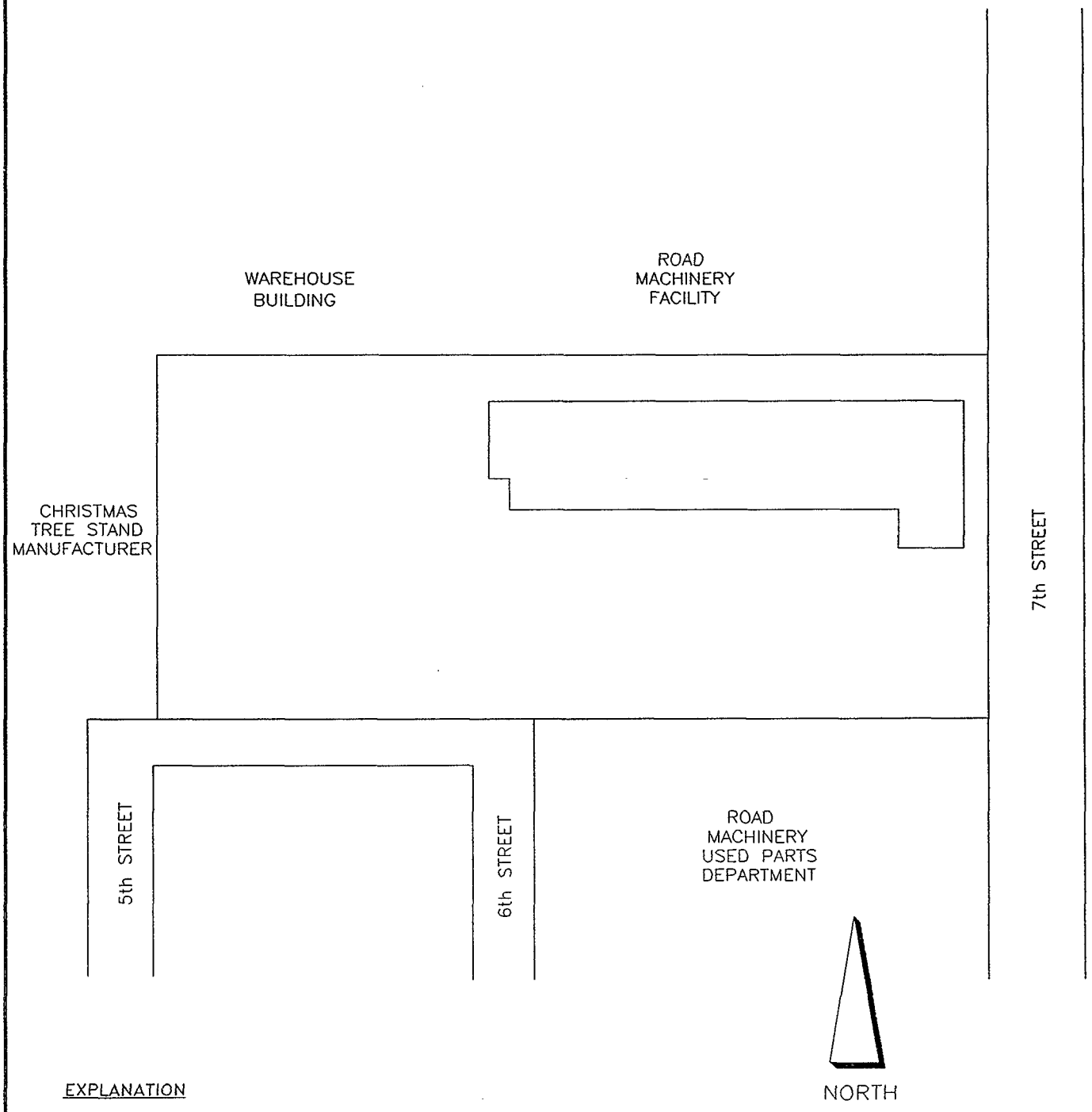
- Mr. Ron Reed ..... (602) 258-6961
  Fruehauf Trailer Corporation

------- ‡ -------

APPENDIX A

SITE LOCATION MAP, AND SITE DIAGRAM

------- ‡ -------



EXPLANATION

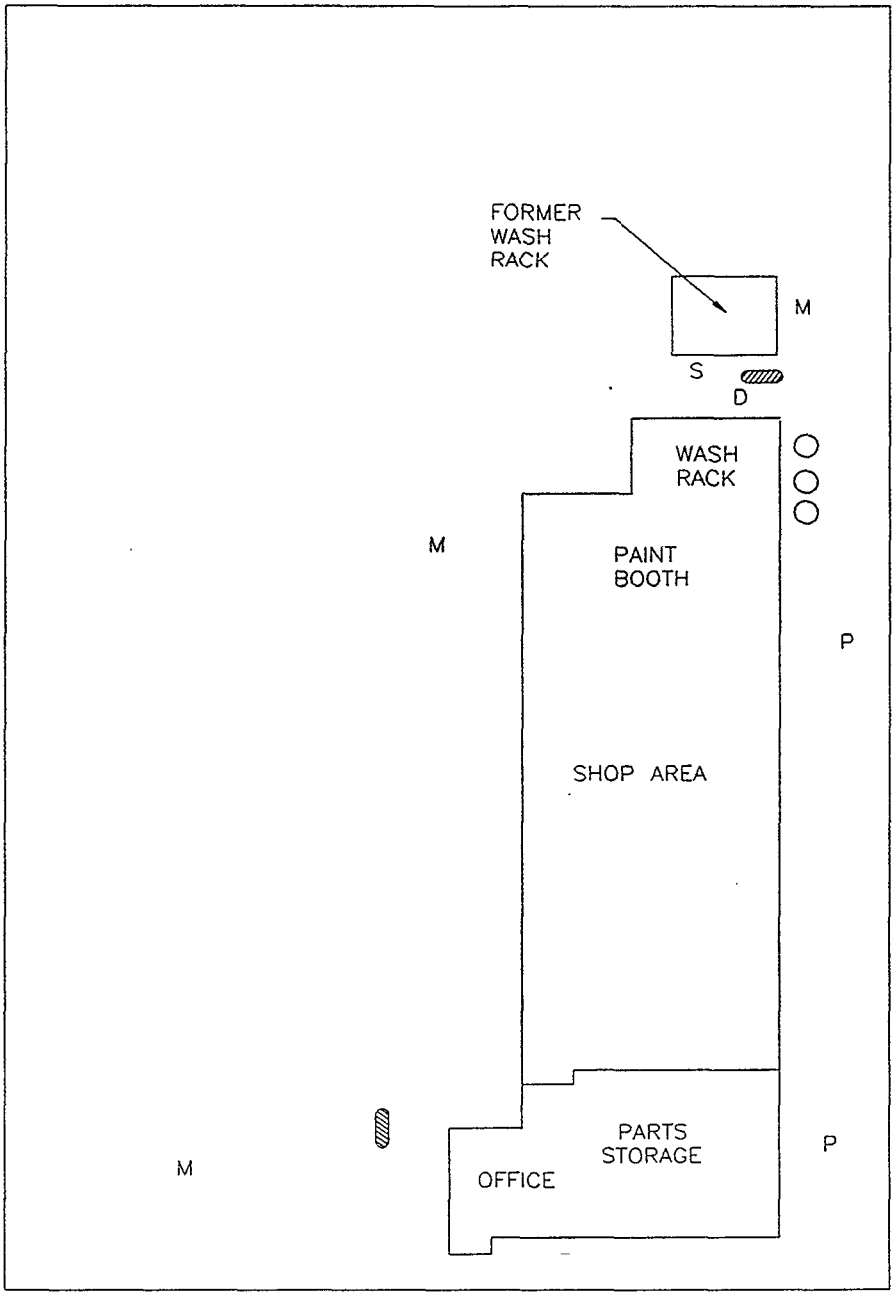
NOTES

1) ALL LOCATIONS AND DIMENSIONS ARE APPROXIMATE
2) NO SCALE IS IMPLIED
3) BASE MAP WAS DEVELOPED FROM A SITE RECONNAISSANCE CONDUCTED BY PERSONNEL FROM ATC ENVIRONMENTAL INC.

ATC ENVIRONMENTAL INC.
Solutions For Environmental Concerns

SITE LOCATION MAP

PROJECT NUMBER 90742.3902 | FIGURE 2



EXPLANATION

○○○ SEPARATOR

FORMER UST LOCATION

D DRYWELL

M MONITORING WELL

S FORMER SEPARATOR

P POLE MOUNTED TRANSFORMERS

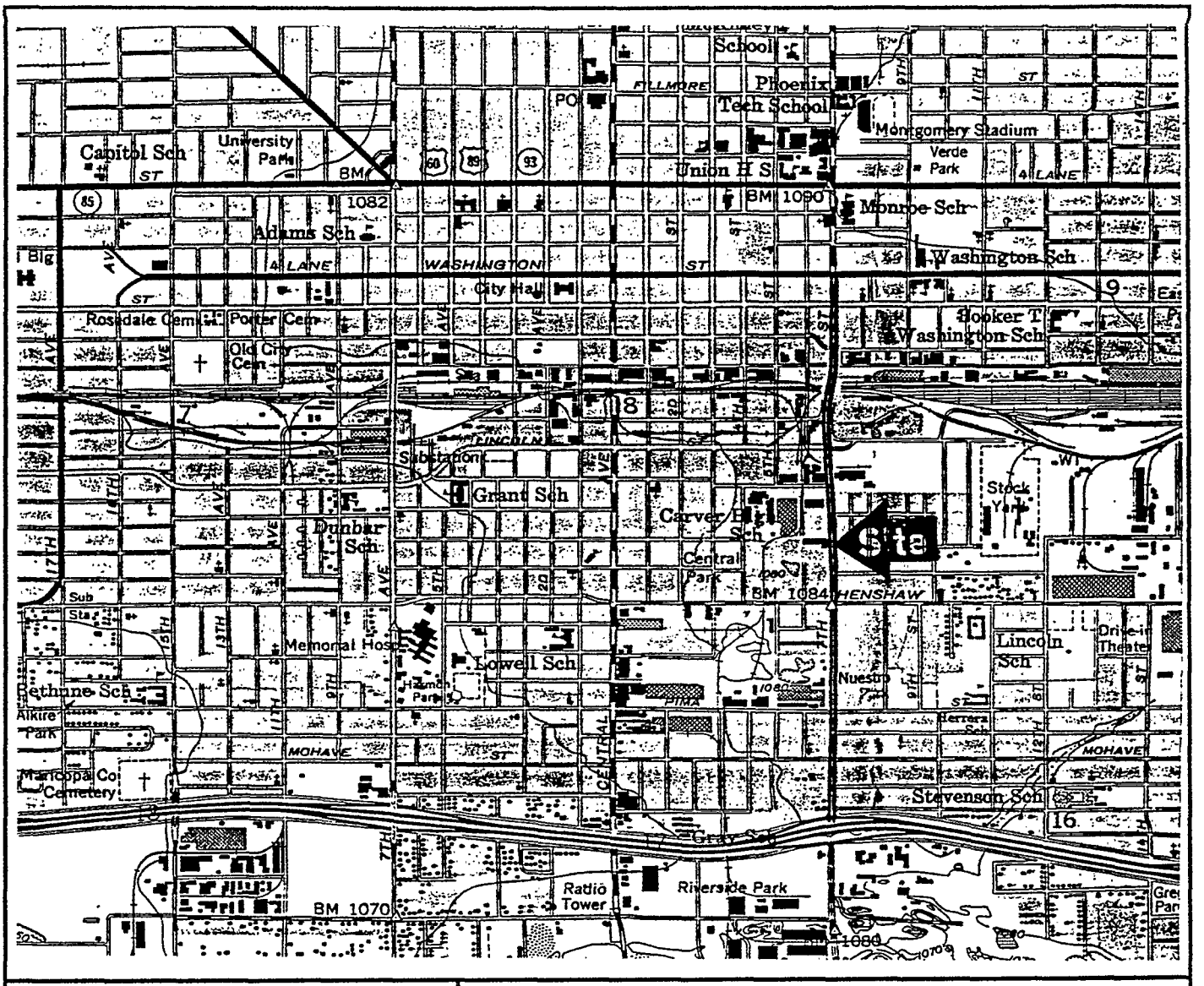
NOTES

1) ALL LOCATIONS AND DIMENSIONS ARE APPROXIMATE
2) NO SCALE IS IMPLIED
3) BASE MAP WAS DEVELOPED FROM A SITE RECONNAISSANCE CONDUCTED BY PERSONNEL FROM ATC ENVIRONMENTAL INC.

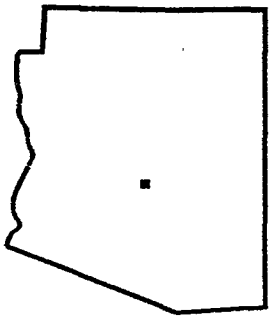
ATC ENVIRONMENTAL INC.
Solutions For Environmental Concerns

SITE DIAGRAM

PROJECT NUMBER 90742.3902 | FIGURE 3



ARIZONA



QUADRANGLE LOCATION

NORTH

0 ½ 1

SCALE, MILES

ATC ENVIRONMENTAL INC.
Solutions For Environmental Concerns

SITE MAP

PROJECT NUMBER 90742.3902 | FIGURE 1

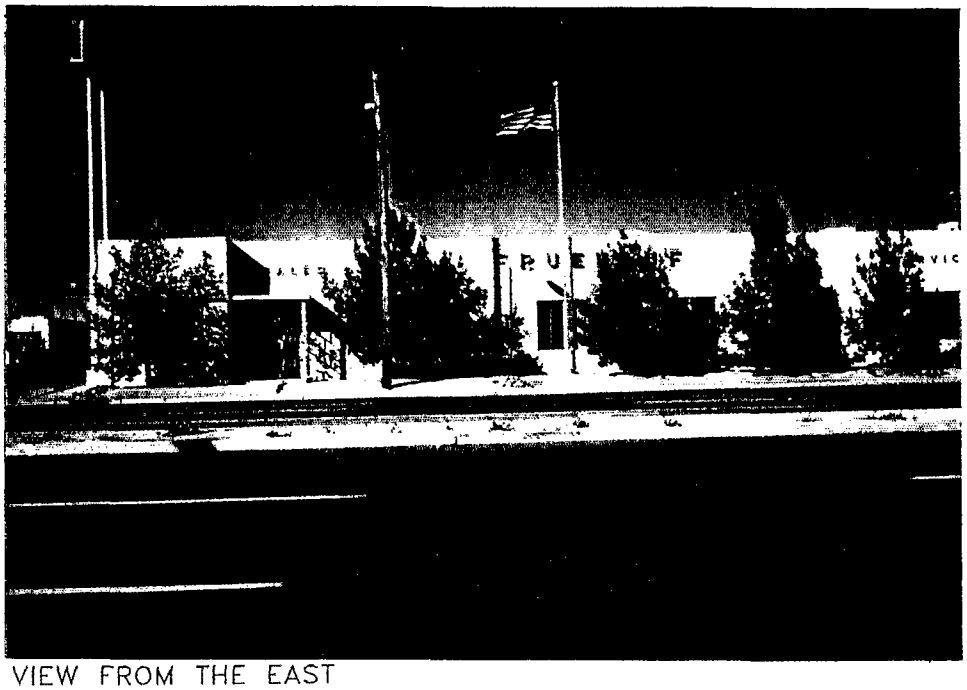
NOTE
BASE MAP IS TAKEN FROM USGS PHOENIX QUADRANGLE, ARIZONA–MARICOPA CO., 7.5–MINUTE SERIES (TOPOGRAPHIC), 1952, PHOTOREVISED 1982

------- ‡ -------

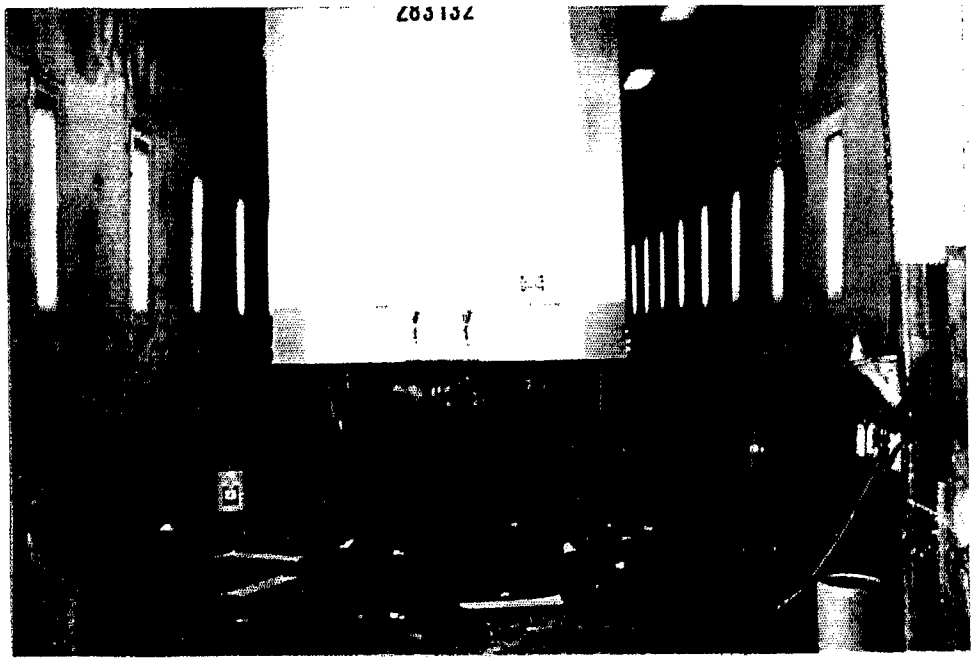
APPENDIX B

SITE PHOTOGRAPHS

------- ‡ -------



VIEW FROM THE EAST

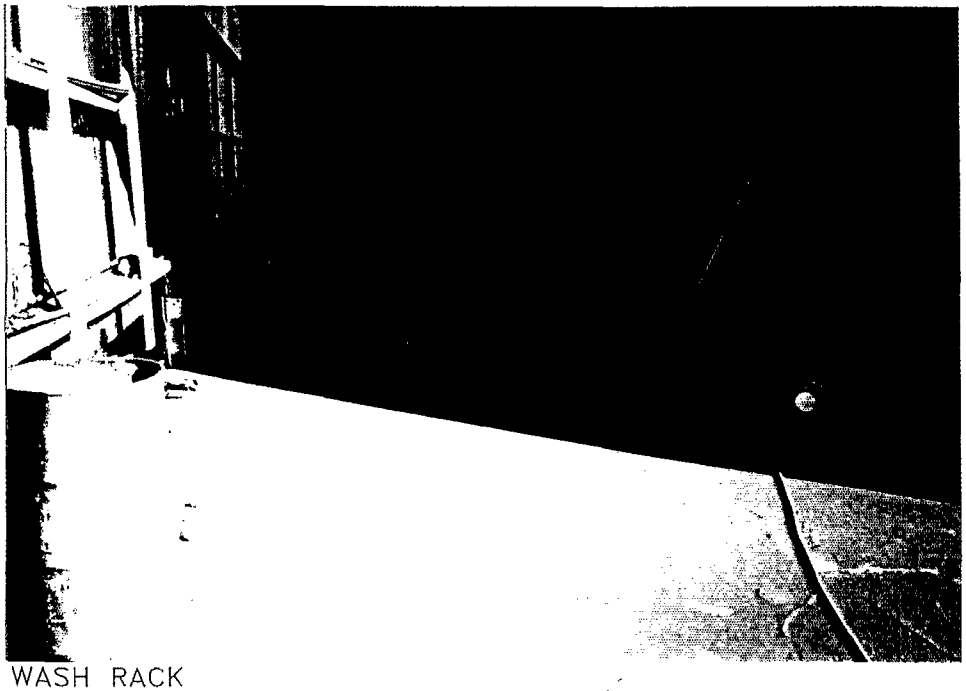


PAINT BOOTH

ATC ENVIRONMENTAL INC.
Solutions For Environmental Concerns

PHOTOGRAPHS

PROJECT NUMBER 90702.3902 | FIGURE 4



WASH RACK

SEPARATOR

ATC ENVIRONMENTAL INC.
Solutions For Environmental Concerns

PHOTOGRAPHS

PROJECT NUMBER 90702.3902 | FIGURE 5

------- ‡ -------

APPENDIX C

RECORDS OF COMMUNICATION

------- ‡ -------

TELEPHONE RECORD

To: Ron Reed	APPLIED GEOSCIENCES INC.	Date: 2/10/97
Of: Fluehaut		Time: 9:30
Phone No.: 602/258-6961		Project: Phoenix
From: Dana Williams		Project Number: 90742.3902
Conference Call: Yes (No)		Recorded by: Dana W.
Participants:		Subject: Site Visit

Site Walk will be on 2/13/97 at 9:00am

Ask for Mr. Reed at front Desk

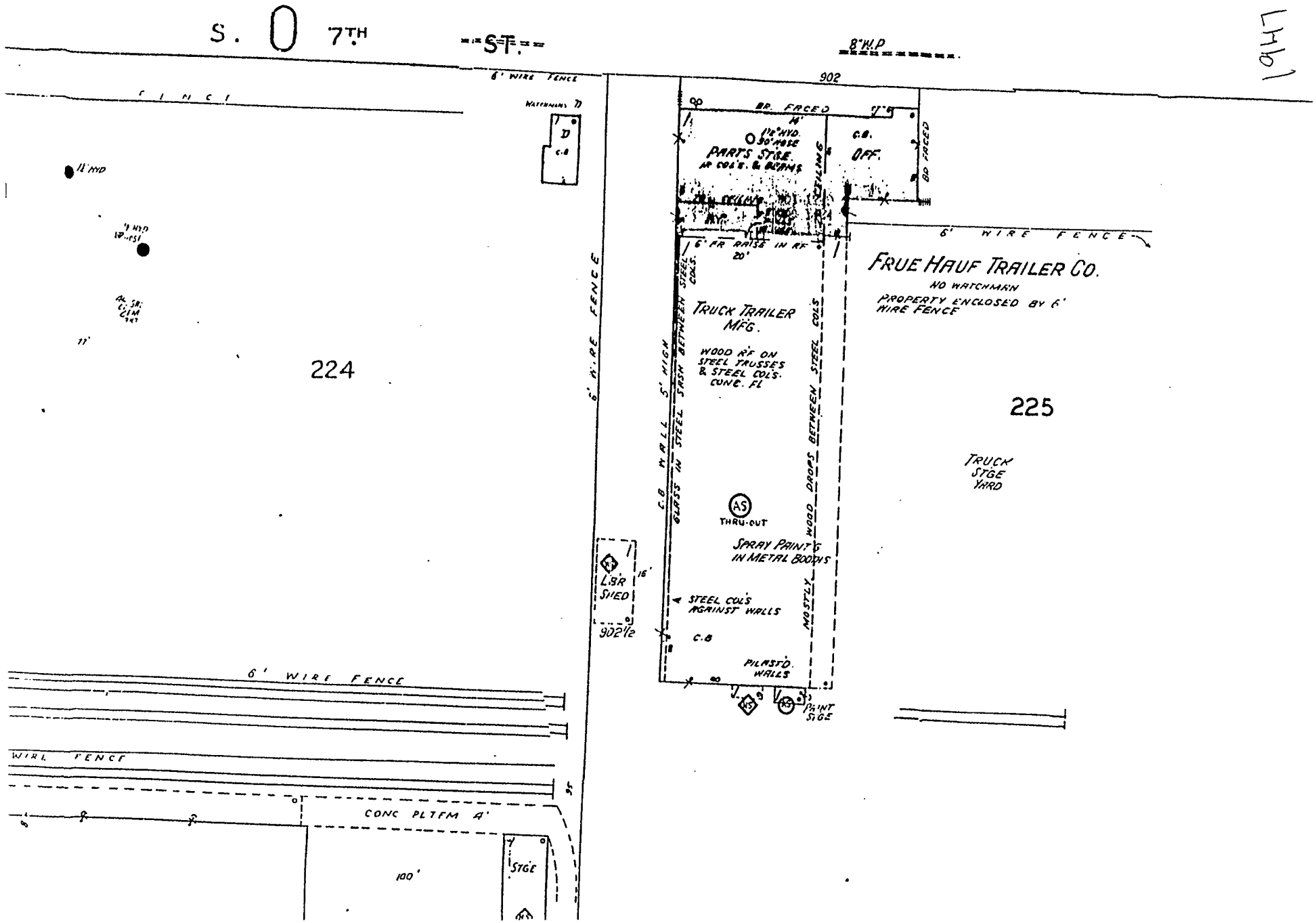
Page __ of __

------- ‡ -------

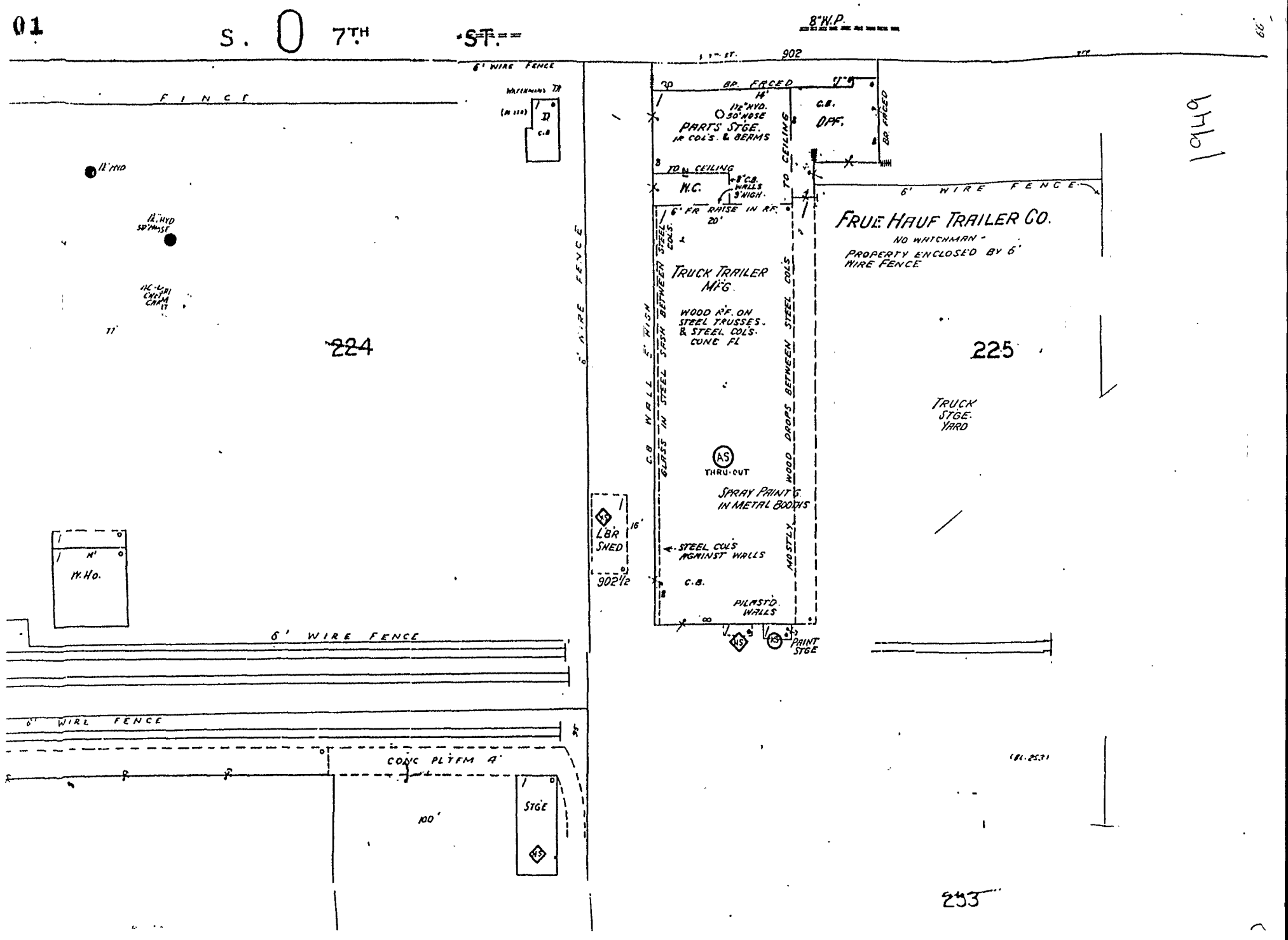
APPENDIX D

SANBORN MAP INFORMATION

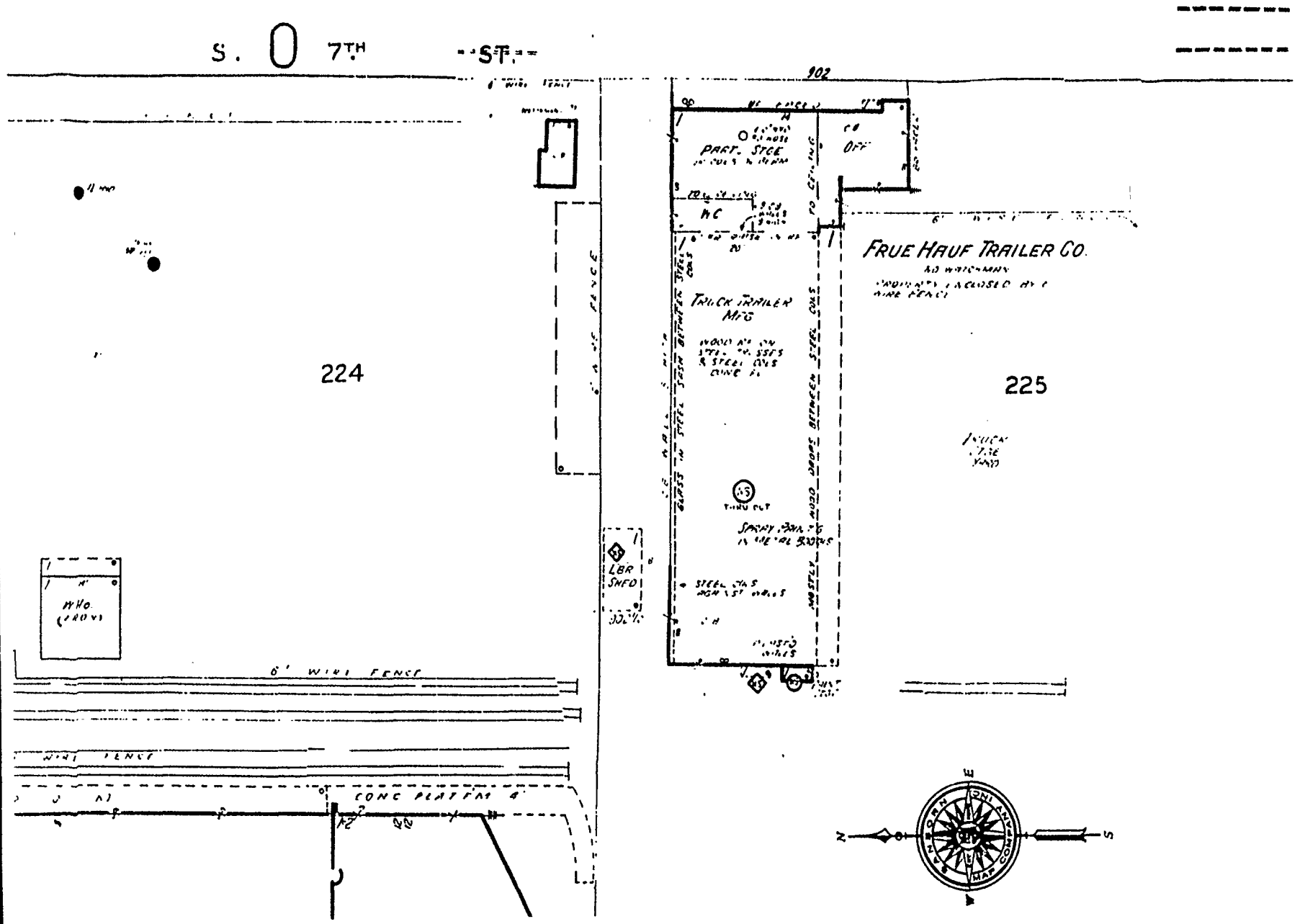
------- ‡ -------


S. 7TH ST.
8" W.P.
902
6' WIRE FENCE
FENCE
WATCHMAN
BR. FACED
PARTS STGE.
OFF.
BR FACED
6' FR RAISE IN RF
20'
FRUE HAUF TRAILER CO.
NO WATCHMAN
PROPERTY ENCLOSED BY 6' WIRE FENCE
TRUCK TRAILER MFG.
WOOD RF ON STEEL TRUSSES & STEEL COLS. CONC. FL
C.B WALL 5' HIGH
GLASS IN STEEL SASH BETWEEN STEEL COLS.
MOSTLY WOOD DROPS BETWEEN STEEL COLS
224
225
TRUCK STGE YARD
THRU-OUT
SPRAY PAINTG IN METAL BOOTHS
STEEL COLS AGAINST WALLS
C.B
PILASTD. WALLS
PAINT STGE
LBR SHED
16'
902½
6' WIRE FENCE
WIRE FENCE
CONC PLTFM 4'
100'
STGE

LHb1


01
S. 7TH ST.
8" W.P.
902
6' WIRE FENCE
FINCE
WATCHMANS TR
D
C.B
12" HYD
12" HYD 50' HOSE
224
6' WIRE FENCE
BR. FACED
14'
1½" HYD. 50' HOSE
PARTS STGE.
IR COL'S. & BEAMS
C.B.
OFF.
BR. FACED
TO CEILING
W.C.
8" C.B. WALLS 3' HIGH
6' FR RAISE IN RF.
20'
TO CEILING
6' WIRE FENCE
FRUE HAUF TRAILER CO.
NO WATCHMAN -
PROPERTY ENCLOSED BY 6' WIRE FENCE
TRUCK TRAILER MFG.
WOOD RF. ON STEEL TRUSSES. & STEEL COL'S. CONC FL
C.B WALL 5' HIGH
GLASS IN STEEL SASH BETWEEN STEEL COLS.
WOOD DROPS BETWEEN STEEL COLS
MOSTLY
225
TRUCK STGE. YARD
AS
THRU-OUT
SPRAY PAINT'G. IN METAL BOOTHS
LBR SHED
16'
902½
STEEL COL'S AGAINST WALLS
C.B.
PILASTD. WALLS
PAINT STGE
W. Ho.
6' WIRE FENCE
6' WIRE FENCE
CONC PLTFM 4'
100'
STGE
233

1969


S. 7TH ST.
902
PART. STGE
OFF
WC
TRUCK TRAILER MFG
FRUE HAUF TRAILER CO.
224
225
LBR SHED
6' WIRE FENCE
CONC PLATFORM
N
S
E

------- ‡ -------

APPENDIX E

REGULATORY RESEARCH DATABASE

------- ‡ -------

The EDR-Radius Map
with GeoCheck™

Fruehauf Trailer Corporation
902 South 7th Street
Phoenix, AZ 85004

Inquiry Number: 0158301.3r

February 06, 1997

Environmental Data Resources, Inc.

Creators of Toxicheck/®

The Source For Environmental Risk Management Data

3530 Post Road
Southport, Connecticut 06490

Nationwide Customer Service

Telephone: 1-800-352-0050
Fax: 1-800-231-6802

TABLE OF CONTENTS

SECTION	PAGE
Executive Summary	ES1
Topographic Map	2
GeoCheck Summary	3
Overview Map	5
Detail Map	6
Map Summary - All Sites	7
Map Summary - Sites with higher or the same elevation as the Target Property	8
Map Findings	9
Orphan Summary	45

APPENDICES

GeoCheck Version 2.1	A1
EPA Waste Codes	A6
Government Records Searched / Data Currency Tracking Addendum	A8

Thank you for your business.
Please contact EDR at 1-800-352-0050
with any questions or comments.

Disclaimer

This Report contains information obtained from a variety of public sources and EDR makes no representation or warranty regarding the accuracy, reliability, quality, or completeness of said information or the information contained in this report. The customer shall assume full responsibility for the use of this report.
No warranty of merchantability or of fitness for a particular purpose, expressed or implied, shall apply and EDR specifically disclaims the making of such warranties. In no event shall EDR be liable to anyone for special, incidental, consequential or exemplary damages. Copyright (c) 1997 by EDR. All rights reserved.

EXECUTIVE SUMMARY

A search of available environmental records was conducted by Environmental Data Resources, Inc. (EDR). The search met the specific requirements of ASTM Standard Practice for Environmental Site Assessments, E 1527-94, or custom distances requested by the user.

The address of the subject property for which the search was intended is:

902 SOUTH 7TH STREET
PHOENIX, AZ 85004

No mapped sites were found in EDR's search of available ("reasonably ascertainable ") government records either on the subject property or within the ASTM E 1527-94 search radius around the subject property for the following Databases:

NPL:..... National Priority List
Delisted NPL:..... NPL Deletions
RCRIS-TSD:..... Resource Conservation and Recovery Information System
CERCLIS:..... Comprehensive Environmental Response, Compensation, and Liability Information System
CERC-NFRAP:..... Comprehensive Environmental Response, Compensation, and Liability Information System
CORRACTS:..... Corrective Action Report
SWF/LF:..... Directory of Solid Waste Facilities
RAATS:..... RCRA Administrative Action Tracking System
RCRIS-LQG:..... Resource Conservation and Recovery Information System
HMIRS:..... Hazardous Materials Information Reporting System
PADS:..... PCB Activity Database System
ERNS:..... Emergency Response Notification System
FINDS:..... Facility Index System
TRIS:..... Toxic Chemical Release Inventory System
NPL Liens:..... Federal Superfund Liens
TSCA:..... Toxic Substances Control Act
MLTS:..... Material Licensing Tracking System
RODS:..... Records Of Decision
CONSENT:..... Superfund (CERCLA) Consent Decrees
Az Dry Wells:..... Drywell Registration
Az Spills:..... Hazardous Material Logbook
Az Aquifers:..... Not reported
Az WQARF:..... Water Quality Assurance Revolving Fund
Az DOD:..... Department of Defense Sites
Az WWFAC:..... Waste Water Treatment Facilities

Unmapped (orphan) sites are not considered in the foregoing analysis.

Search Results:

Search results for the subject property and the search radius, are listed below:

Subject Property:

The subject property was identified in the following government records. For more information on this property see page 9 of the attached EDR Radius Map report:

Site	Database(s)	EPA ID
FRUEHAUF TRAILER CORPORATION 902 S 7TH ST PHOENIX, AZ 85034	UST LUST	N/A

EXECUTIVE SUMMARY

Surrounding Properties:

Elevations have been determined from the USGS 1 degree Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified. EDR's definition of a site with an elevation equal to the subject property includes a tolerance of -10 feet. Sites with an elevation equal to or higher than the subject property have been differentiated below from sites with an elevation lower than the subject property (by more than 10 feet). Page numbers and map identification numbers refer to the EDR Radius Map report where detailed data on individual sites can be reviewed.

Sites listed in ***bold italics*** are in multiple databases.

SHWS: The State Hazardous Waste Sites records are the states' equivalent to CERCLIS. These sites may or may not already by listed on the federal CERCLIS list. Priority sites planned for cleanup using state funds (state equivalent of Superfund) are identified along with sites where cleanup will be paid for by potentially responsible parties. The data comes from the Department of Environmental Quality's ZipAcids database.

A review of the SHWS list, as provided by EDR, and dated 05/09/1996 has revealed that there are 30 SHWS sites within approximately 1 Mile of the subject property.

Equal/Higher Elevation	Address	TP Dist	Map ID	Page
KARLSON MACHINE WORKS	***743 S. 7TH ST.***	***0 - 1/8***	***A2***	***10***
CHECKER CAB	***8TH PLACE & SHERMAN***	***0 - 1/8***	***B6***	***12***
KARLSON MACHINE WORKS INC.	605 E GRANT ST	1/8 - 1/4	8	14
DESERT SPECIALTIES	***1020 S 5TH ST***	***1/8 - 1/4***	***12***	***17***
HAY'S ROOFING AND SUPPLY	747 E. BUCKEYE RD.	1/8 - 1/4	E18	20
EAST WASHINGTON AREA FLUFF	***443 E BUCKEYE RD***	***1/8 - 1/4***	***F24***	***25***
CAPITOL ENGINEERING COMPANY	***724 E SOUTHERN PACIFIC***	***1/8 - 1/4***	***G27***	***26***
RAIL SPUR PESTICIDE GROUP	734 E. SOUTHERN PACIFIC	1/8 - 1/4	G29	27
CHEMONICS LAB DIV MCKENZIE	***734 E SOUTHERN PACIFIC***	***1/8 - 1/4***	***G30***	***27***
BAGDAD PLASTICS CO.	***625 S 5TH ST***	***1/8 - 1/4***	***H33***	***28***
CANYON INDUSTRIES	***234 E SOUTHERN PACIFIC***	***1/4 - 1/2***	***36***	***29***
CYPRUS SPECIALTY STEEL CO.	1500 S 7TH ST	1/4 - 1/2	39	31
APS	501 S 1ST ST	1/2 - 1	46	35
ARIZONA PLATING AND ANODIZING	618 S CENTRAL AVE	1/2 - 1	47	36
INTERSTATE PARTS & MACHINE	1321 S CENTRAL AVE	1/2 - 1	I48	36
BS&W ENERGY	725 S 12TH PL	1/2 - 1	49	36
ARIZONA PUMP AND SUPPLY CO.	1308 S CENTRAL AVE	1/2 - 1	I50	36
LINCOLN LASER CO.	234 E MOHAVE ST	1/2 - 1	51	36
CENTRAL TIRE	1500 S CENTRAL AVE	1/2 - 1	J52	36
MARYATT LAUNDRY	720 W BUCHANAN ST	1/2 - 1	53	36
AXLE TRANSMISSION OF ARIZONA,	1401 S CENTRAL AVE	1/2 - 1	J54	37
MISSION UNIFORM SERVICE	***1606 S 1ST AVE***	***1/2 - 1***	***56***	***37***
TIERNAY MFG CO	***1301 E JACKSON ST A***	***1/2 - 1***	***57***	***37***
QUALITY PRINTED CIRCUITS CORP	***1831 S CENTRAL***	***1/2 - 1***	***58***	***38***
PRECISIONS GRINDING	1411 E. HADLEY	1/2 - 1	59	39
FMC CORP PESTICIDE FORMULATING	1450 E BUCKEYE RD	1/2 - 1	60	39
AMERON PIPE DIV SOUTHWEST	***2325 S 7TH ST***	***1/2 - 1***	***61***	***39***
ARVIN INDUSTRIES INC	***500 S 15TH ST***	***1/2 - 1***	***62***	***41***
PHOENIX NEWSPAPERS INC.	120 E VAN BUREN ST	1/2 - 1	64	44

Lower Elevation	Address	TP Dist	Map ID	Page
11TH ST LDFL	*11TH ST & GIBSON LN*	*1/2 - 1*	*63*	*43*

EXECUTIVE SUMMARY

LUST: The Leaking Underground Storage Tank Incident Reports contain an inventory of reported leaking underground storage tank incidents. The data comes from the Department of Environmental Quality's LUST File Listing by Zip Code.

A review of the LUST list, as provided by EDR, and dated 10/07/1996 has revealed that there are 17 LUST sites within approximately 0.5 Miles of the subject property.

Equal/Higher Elevation	Address	TP Dist	Map ID	Page
ROAD MACHINERY CO	*716 S 7TH ST*	*0 - 1/8*	*A4*	*11*
ARNETT TRANSPORTATION	*830 E SHERMAN ST*	*0 - 1/8*	*B7*	*13*
CIRCLE K # 1569	*699 E BUCKEYE ROAD*	*1/8 - 1/4*	*C10*	*14*
HAYS ROOFING & SUPPLY INC	*747 E BUCKEYE RD*	*1/8 - 1/4*	*14*	*18*
GRANT STREET WAREHOUSE	*515 E GRANT ST*	*1/8 - 1/4*	*15*	*18*
CRISPS	*502 E BUCKEYE RD*	*1/8 - 1/4*	*D19*	*20*
UNIVERSAL ROOFERS INC	*1245 S 7TH STREET*	*1/8 - 1/4*	*20*	*20*
HURLEY TRUCKING CO INC	*1001 S 4TH ST*	*1/8 - 1/4*	*22*	*23*
BAGDAD PLASTICS CO.	*625 S 5TH ST*	*1/8 - 1/4*	*H33*	*28*
DISTRICT SERVICES OFFICE	*415 E GRANT ST*	*1/8 - 1/4*	*35*	*29*
COMMERICAL PIPE INC	*1429 S 7TH ST*	*1/4 - 1/2*	*37*	*30*
DALLAS SMITH ENGR CORP	*1102 E TONTO ST*	*1/4 - 1/2*	*40*	*31*
STERN PRODUCE CO INC	*601 E JACKSON ST*	*1/4 - 1/2*	*41*	*32*
A J BAYLESS MARKETS INC	*111 E BUCKEYE ROAD*	*1/4 - 1/2*	*42*	*32*
TRAILSIDE GENERAL STORE	*1644 S 7TH ST*	*1/4 - 1/2*	*43*	*33*
CORBINS SERVICE ELECTRIC	*901 E JACKSON*	*1/4 - 1/2*	*44*	*34*
CHARLIE CASE TIRE COMPANY	*234 S 7TH ST*	*1/4 - 1/2*	*45*	*35*

UST: The Underground Storage Tank database contains registered USTs. USTs are regulated under Subtitle I of the Resource Conservation and Recovery Act (RCRA). The data comes from the Department of Environmental Quality's Arizona UST-DMS Facility and Tank Data Listing by City database.

A review of the UST list, as provided by EDR, and dated 02/07/1996 has revealed that there are 20 UST sites within approximately 0.25 Miles of the subject property.

Equal/Higher Elevation	Address	TP Dist	Map ID	Page
KARLSON MACHINE WORKS INC	743 S 7TH ST	0 - 1/8	A3	10
ROAD MACHINERY CO	*716 S 7TH ST*	*0 - 1/8*	*A4*	*11*
KARLSON MACHINE WORKS INC	701 S 7TH ST	0 - 1/8	A5	12
ARNETT TRANSPORTATION	*830 E SHERMAN ST*	*0 - 1/8*	*B7*	*13*
UST (CLOSE)	669 E BUCKEYE RD	1/8 - 1/4	C9	14
CIRCLE K # 1569	*699 E BUCKEYE ROAD*	*1/8 - 1/4*	*C10*	*14*
INDUSTRIAL REFRIGERATION & BOI	834 E TONTO ST	1/8 - 1/4	11	16
KUNDE PROPERTY	723 E BUCKEYE RD	1/8 - 1/4	13	17
HAYS ROOFING & SUPPLY INC	*747 E BUCKEYE RD*	*1/8 - 1/4*	*14*	*18*
GRANT STREET WAREHOUSE	*515 E GRANT ST*	*1/8 - 1/4*	*15*	*18*
NAPA	522 E BUCKEYE RD	1/8 - 1/4	D16	19
CRISPS	*502 E BUCKEYE RD*	*1/8 - 1/4*	*D19*	*20*
UNIVERSAL ROOFERS INC	*1245 S 7TH STREET*	*1/8 - 1/4*	*20*	*20*
RALPH HAYS	811 E BUCKEYE RD	1/8 - 1/4	E21	22
HURLEY TRUCKING CO INC	*1001 S 4TH ST*	*1/8 - 1/4*	*22*	*23*
HAYS ROOFING & SUPPLY INC	1217 S 8TH ST	1/8 - 1/4	25	25
CAPITOL ENGINEERING COMPANY	*724 E SOUTHERN PACIFIC*	*1/8 - 1/4*	*G27*	*26*
SOUTHERN PACIFIC TRANSPORTATIO	733 E SOUTHERN PACIFIC	1/8 - 1/4	G32	27
VIKA CORPORATION	625 S 5TH ST	1/8 - 1/4	H34	29
DISTRICT SERVICES OFFICE	*415 E GRANT ST*	*1/8 - 1/4*	*35*	*29*

EXECUTIVE SUMMARY

RCRIS: The Resource Conservation and Recovery Act database includes selected information on sites that generate, store, treat, or dispose of hazardous waste as defined by the Act. The source of this database is the U.S. EPA.

A review of the RCRIS-SQG list, as provided by EDR, and dated 10/31/1996 has revealed that there are 7 RCRIS-SQG sites within approximately 0.25 Miles of the subject property.

Equal/Higher Elevation	Address	TP Dist	Map ID	Page
ROAD MACHINERY CO	*716 S 7TH ST*	*0 - 1/8*	*A4*	*11*
EDEN SALES+MARKETING INC	512 E BUCKEYE RD	1/8 - 1/4	D17	19
HURLEY TRUCKING CO INC	*1001 S 4TH ST*	*1/8 - 1/4*	*22*	*23*
NATIONAL METALS CO PHX	443 E BUCKEYE RD	1/8 - 1/4	F23	25
PETROLEUM RECYCLING PROD INC	*725 E HADLEY*	*1/8 - 1/4*	*26*	*25*
GOVERNMENT INNOVATORS	*734 E SOUTHERN PACIFIC*	*1/8 - 1/4*	*G28*	*26*
GOVERNMENT INNOVATOR INC	*734 E SOUTHERN PACIFIC*	*1/8 - 1/4*	*G31*	*27*

(Coal Gas) Former Manufactured gas (Coal Gas) Sites:

The existence and location of Coal Gas sites is provided exclusively to EDR by Real Property Scan, Inc. Copyright 1993 Real Property Scan, Inc. For a technical description of the types of hazards which may be found at such sites, contact your EDR customer service representative

A review of the Coal Gas list, as provided by EDR, has revealed that there are 2 Coal Gas sites within approximately 1 Mile of the subject property.

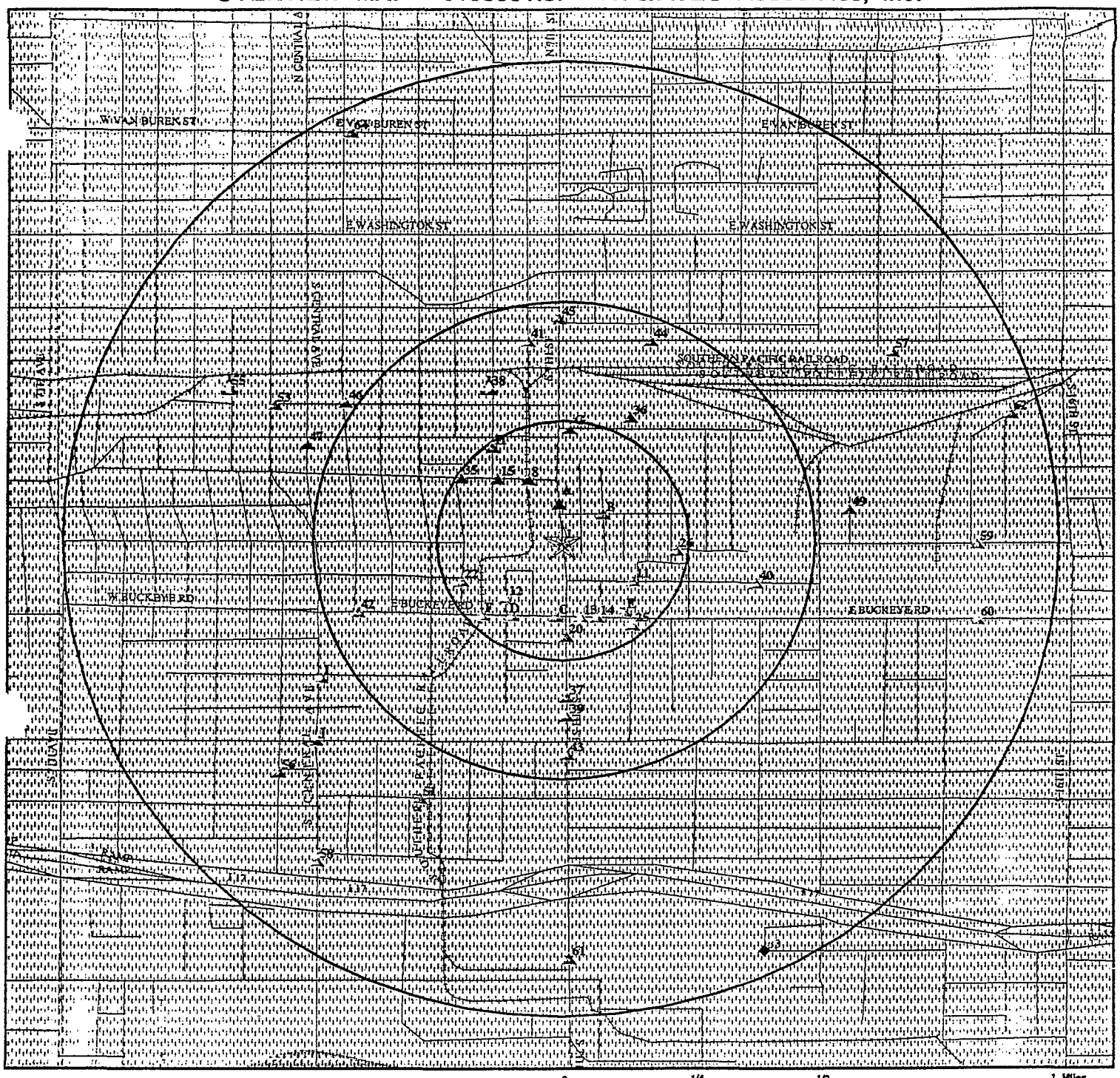
Equal/Higher Elevation	Address	TP Dist	Map ID	Page
CENTRAL ARIZONA LIGHT AND POWE	350 SHERIDAN	1/4 - 1/2	38	31
PHOENIX ELECTRIC LIGHT AND FUE	401-423 S. 2ND AV.	1/2 - 1	55	37

EXECUTIVE SUMMARY

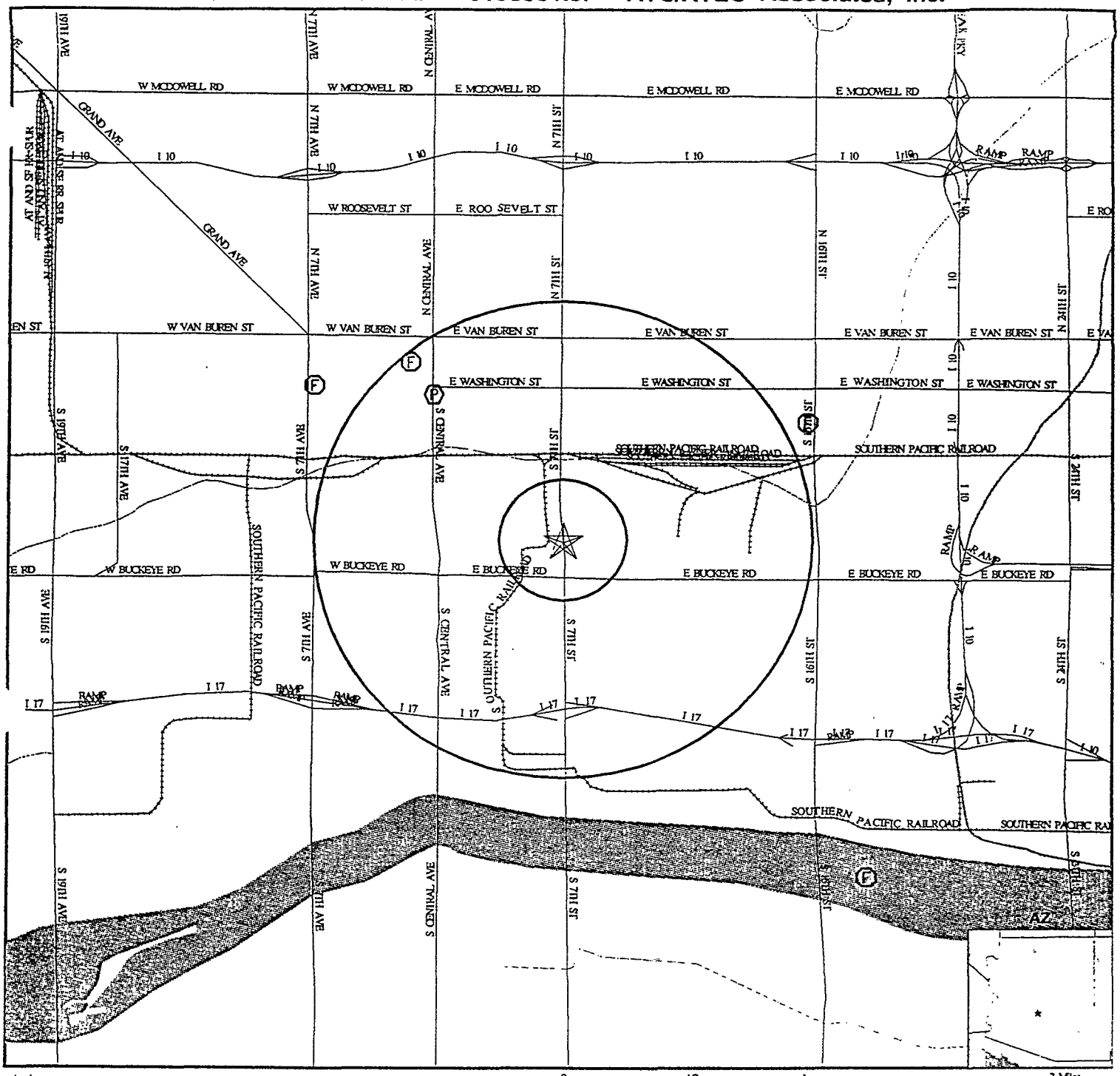
Due to poor or inadequate address information, the following sites were not mapped:

Site Name	Database(s)
LUKE AIR FORCE AUXILIARY FIELD	SHWS
UNITED INDUSTRIAL CONTRACTORS	SHWS
SOUTHERN PACIFIC RAILWAY	SHWS
SOUTHERN PACIFIC TRANSP. CO.	SHWS
14TH ST. LANDFILL	SHWS
HERTZ CORP.	SHWS
ARIZONA BARREL & CAN	SHWS
MARICOPA CO. MATERIAL FACILITY	SHWS
CENTRAL AVENUE LANDFILL	SHWS
WQ-SKY HARBOR STUDY AREA	SHWS
SALT RIVER MSWLF: BILLING ACCT	SWF/LF
TRI CITY: BILLING ACCT FOR	SWF/LF
TRI-CITY: BILLING ACCT FOR	SWF/LF
WICKENBURG: BILLING	SWF/LF
USAF WILLIAMS AFB MSWLF	SWF/LF
KACHINA READY MIX-FIRST STREET	SWF/LF
MESA, CITY OF-MESA CSWLF	SWF/LF
GENERAL MOTORS (GM) PROVING	SWF/LF
MARICOPA COUNTY-AGUILA CSWLF	SWF/LF
SALT RIVER-PIMA TRIBE-TRI CITY	SWF/LF
CALMAT-LITCHFIELD/AVONDALE RLF	SWF/LF
AETS (CHEM WASTE MGMT.)	SWF/LF
CHANDLER, CITY OF-CSWLF	SWF/LF
TERRA QUEST CDLF	SWF/LF
MARICOPA COUNTY-HASSAYAMPA	SWF/LF
40TH STREET LANDFILL	SWF/LF
CHANDLER INT. #2 CSWLF	SWF/LF
PHOENIX, CITY OF-91ST AVENUE	SWF/LF
TEMPE, CITY OF-TEMPE #1 CSWLF	SWF/LF
TEMPE DISPOSAL FEES TO	SWF/LF
WICKENBURG, TOWN OF-WICKENBURG	SWF/LF
MARICOPA COUNTY-PERRYVILLE	SWF/LF
SOUTHERN PACIFIC PROPERTY	UST, LUST
MISSION LINEN SUPPLY	LUST
SUNDANCE BROADCASTING (FORMER	LUST
FORMER PNI WAREHOUSE	UST, LUST
PRODUCE HAULING CO LEASE SPTCO	UST, LUST
FIRST INTERSTATE BANK OF	UST

OVERVIEW MAP - 0158301.3r - ATC/ATEC Associates, Inc.


W VAN BUREN ST
E VAN BUREN ST
E WASHINGTON ST
S CENTRAL AVE
SOUTHERN PACIFIC RAILROAD
W BUCKEYE RD
E BUCKEYE RD
S 7TH ST
S 9TH ST
S 16TH ST
S 19TH ST
S 24TH ST
S 27TH ST
S 32ND ST
S 35TH ST
S 40TH ST
S 43RD ST
S 47TH ST
S 51ST ST
S 55TH ST
S 59TH ST
S 63RD ST
S 67TH ST
S 71ST ST
S 75TH ST
S 79TH ST
S 83RD ST
S 87TH ST
S 91ST ST
S 95TH ST
S 99TH ST
S 103RD ST
S 107TH ST
S 111TH ST
S 115TH ST
S 119TH ST
S 123RD ST
S 127TH ST
S 131ST ST
S 135TH ST
S 139TH ST
S 143RD ST
S 147TH ST
S 151ST ST
S 155TH ST
S 159TH ST
S 163RD ST
S 167TH ST
S 171ST ST
S 175TH ST
S 179TH ST
S 183RD ST
S 187TH ST
S 191ST ST
S 195TH ST
S 199TH ST
S 203RD ST
S 207TH ST
S 211TH ST
S 215TH ST
S 219TH ST
S 223RD ST
S 227TH ST
S 231ST ST
S 235TH ST
S 239TH ST
S 243RD ST
S 247TH ST
S 251ST ST
S 255TH ST
S 259TH ST
S 263RD ST
S 267TH ST
S 271ST ST
S 275TH ST
S 279TH ST
S 283RD ST
S 287TH ST
S 291ST ST
S 295TH ST
S 299TH ST
S 303RD ST
S 307TH ST
S 311TH ST
S 315TH ST
S 319TH ST
S 323RD ST
S 327TH ST
S 331ST ST
S 335TH ST
S 339TH ST
S 343RD ST
S 347TH ST
S 351ST ST
S 355TH ST
S 359TH ST
S 363RD ST
S 367TH ST
S 371ST ST
S 375TH ST
S 379TH ST
S 383RD ST
S 387TH ST
S 391ST ST
S 395TH ST
S 399TH ST
S 403RD ST
S 407TH ST
S 411TH ST
S 415TH ST
S 419TH ST
S 423RD ST
S 427TH ST
S 431ST ST
S 435TH ST
S 439TH ST
S 443RD ST
S 447TH ST
S 451ST ST
S 455TH ST
S 459TH ST
S 463RD ST
S 467TH ST
S 471ST ST
S 475TH ST
S 479TH ST
S 483RD ST
S 487TH ST
S 491ST ST
S 495TH ST
S 499TH ST
S 503RD ST
S 507TH ST
S 511TH ST
S 515TH ST
S 519TH ST
S 523RD ST
S 527TH ST
S 531ST ST
S 535TH ST
S 539TH ST
S 543RD ST
S 547TH ST
S 551ST ST
S 555TH ST
S 559TH ST
S 563RD ST
S 567TH ST
S 571ST ST
S 575TH ST
S 579TH ST
S 583RD ST
S 587TH ST
S 591ST ST
S 595TH ST
S 599TH ST
S 603RD ST
S 607TH ST
S 611TH ST
S 615TH ST
S 619TH ST
S 623RD ST
S 627TH ST
S 631ST ST
S 635TH ST
S 639TH ST
S 643RD ST
S 647TH ST
S 651ST ST
S 655TH ST
S 659TH ST
S 663RD ST
S 667TH ST
S 671ST ST
S 675TH ST
S 679TH ST
S 683RD ST
S 687TH ST
S 691ST ST
S 695TH ST
S 699TH ST
S 703RD ST
S 707TH ST
S 711TH ST
S 715TH ST
S 719TH ST
S 723RD ST
S 727TH ST
S 731ST ST
S 735TH ST
S 739TH ST
S 743RD ST
S 747TH ST
S 751ST ST
S 755TH ST
S 759TH ST
S 763RD ST
S 767TH ST
S 771ST ST
S 775TH ST
S 779TH ST
S 783RD ST
S 787TH ST
S 791ST ST
S 795TH ST
S 799TH ST
S 803RD ST
S 807TH ST
S 811TH ST
S 815TH ST
S 819TH ST
S 823RD ST
S 827TH ST
S 831ST ST
S 835TH ST
S 839TH ST
S 843RD ST
S 847TH ST
S 851ST ST
S 855TH ST
S 859TH ST
S 863RD ST
S 867TH ST
S 871ST ST
S 875TH ST
S 879TH ST
S 883RD ST
S 887TH ST
S 891ST ST
S 895TH ST
S 899TH ST
S 903RD ST
S 907TH ST
S 911TH ST
S 915TH ST
S 919TH ST
S 923RD ST
S 927TH ST
S 931ST ST
S 935TH ST
S 939TH ST
S 943RD ST
S 947TH ST
S 951ST ST
S 955TH ST
S 959TH ST
S 963RD ST
S 967TH ST
S 971ST ST
S 975TH ST
S 979TH ST
S 983RD ST
S 987TH ST
S 991ST ST
S 995TH ST
S 999TH ST
S 1003RD ST
S 1007TH ST
S 1011TH ST
S 1015TH ST
S 1019TH ST
S 1023RD ST
S 1027TH ST
S 1031ST ST
S 1035TH ST
S 1039TH ST
S 1043RD ST
S 1047TH ST
S 1051ST ST
S 1055TH ST
S 1059TH ST
S 1063RD ST
S 1067TH ST
S 1071ST ST
S 1075TH ST
S 1079TH ST
S 1083RD ST
S 1087TH ST
S 1091ST ST
S 1095TH ST
S 1099TH ST
S 1103RD ST
S 1107TH ST
S 1111TH ST
S 1115TH ST
S 1119TH ST
S 1123RD ST
S 1127TH ST
S 1131ST ST
S 1135TH ST
S 1139TH ST
S 1143RD ST
S 1147TH ST
S 1151ST ST
S 1155TH ST
S 1159TH ST
S 1163RD ST
S 1167TH ST
S 1171ST ST
S 1175TH ST
S 1179TH ST
S 1183RD ST
S 1187TH ST
S 1191ST ST
S 1195TH ST
S 1199TH ST
S 1203RD ST
S 1207TH ST
S 1211TH ST
S 1215TH ST
S 1219TH ST
S 1223RD ST
S 1227TH ST
S 1231ST ST
S 1235TH ST
S 1239TH ST
S 1243RD ST
S 1247TH ST
S 1251ST ST
S 1255TH ST
S 1259TH ST
S 1263RD ST
S 1267TH ST
S 1271ST ST
S 1275TH ST
S 1279TH ST
S 1283RD ST
S 1287TH ST
S 1291ST ST
S 1295TH ST
S 1299TH ST
S 1303RD ST
S 1307TH ST
S 1311TH ST
S 1315TH ST
S 1319TH ST
S 1323RD ST
S 1327TH ST
S 1331ST ST
S 1335TH ST
S 1339TH ST
S 1343RD ST
S 1347TH ST
S 1351ST ST
S 1355TH ST
S 1359TH ST
S 1363RD ST
S 1367TH ST
S 1371ST ST
S 1375TH ST
S 1379TH ST
S 1383RD ST
S 1387TH ST
S 1391ST ST
S 1395TH ST
S 1399TH ST
S 1403RD ST
S 1407TH ST
S 1411TH ST
S 1415TH ST
S 1419TH ST
S 1423RD ST
S 1427TH ST
S 1431ST ST
S 1435TH ST
S 1439TH ST
S 1443RD ST
S 1447TH ST
S 1451ST ST
S 1455TH ST
S 1459TH ST
S 1463RD ST
S 1467TH ST
S 1471ST ST
S 1475TH ST
S 1479TH ST
S 1483RD ST
S 1487TH ST
S 1491ST ST
S 1495TH ST
S 1499TH ST
S 1503RD ST
S 1507TH ST
S 1511TH ST
S 1515TH ST
S 1519TH ST
S 1523RD ST
S 1527TH ST
S 1531ST ST
S 1535TH ST
S 1539TH ST
S 1543RD ST
S 1547TH ST
S 1551ST ST
S 1555TH ST
S 1559TH ST
S 1563RD ST
S 1567TH ST
S 1571ST ST
S 1575TH ST
S 1579TH ST
S 1583RD ST
S 1587TH ST
S 1591ST ST
S 1595TH ST
S 1599TH ST
S 1603RD ST
S 1607TH ST
S 1611TH ST
S 1615TH ST
S 1619TH ST
S 1623RD ST
S 1627TH ST
S 1631ST ST
S 1635TH ST
S 1639TH ST
S 1643RD ST
S 1647TH ST
S 1651ST ST
S 1655TH ST
S 1659TH ST
S 1663RD ST
S 1667TH ST
S 1671ST ST
S 1675TH ST
S 1679TH ST
S 1683RD ST
S 1687TH ST
S 1691ST ST
S 1695TH ST
S 1699TH ST
S 1703RD ST
S 1707TH ST
S 1711TH ST
S 1715TH ST
S 1719TH ST
S 1723RD ST
S 1727TH ST
S 1731ST ST
S 1735TH ST
S 1739TH ST
S 1743RD ST
S 1747TH ST
S 1751ST ST
S 1755TH ST
S 1759TH ST
S 1763RD ST
S 1767TH ST
S 1771ST ST
S 1775TH ST
S 1779TH ST
S 1783RD ST
S 1787TH ST
S 1791ST ST
S 1795TH ST
S 1799TH ST
S 1803RD ST
S 1807TH ST
S 1811TH ST
S 1815TH ST
S 1819TH ST
S 1823RD ST
S 1827TH ST
S 1831ST ST
S 1835TH ST
S 1839TH ST
S 1843RD ST
S 1847TH ST
S 1851ST ST
S 1855TH ST
S 1859TH ST
S 1863RD ST
S 1867TH ST
S 1871ST ST
S 1875TH ST
S 1879TH ST
S 1883RD ST
S 1887TH ST
S 1891ST ST
S 1895TH ST
S 1899TH ST
S 1903RD ST
S 1907TH ST
S 1911TH ST
S 1915TH ST
S 1919TH ST
S 1923RD ST
S 1927TH ST
S 1931ST ST
S 1935TH ST
S 1939TH ST
S 1943RD ST
S 1947TH ST
S 1951ST ST
S 1955TH ST
S 1959TH ST
S 1963RD ST
S 1967TH ST
S 1971ST ST
S 1975TH ST
S 1979TH ST
S 1983RD ST
S 1987TH ST
S 1991ST ST
S 1995TH ST
S 1999TH ST
S 2003RD ST
S 2007TH ST
S 2011TH ST
S 2015TH ST
S 2019TH ST
S 2023RD ST
S 2027TH ST
S 2031ST ST
S 2035TH ST
S 2039TH ST
S 2043RD ST
S 2047TH ST
S 2051ST ST
S 2055TH ST
S 2059TH ST
S 2063RD ST
S 2067TH ST
S 2071ST ST
S 2075TH ST
S 2079TH ST
S 2083RD ST
S 2087TH ST
S 2091ST ST
S 2095TH ST
S 2099TH ST
S 2103RD ST
S 2107TH ST
S 2111TH ST
S 2115TH ST
S 2119TH ST
S 2123RD ST
S 2127TH ST
S 2131ST ST
S 2135TH ST
S 2139TH ST
S 2143RD ST
S 2147TH ST
S 2151ST ST
S 2155TH ST
S 2159TH ST
S 2163RD ST
S 2167TH ST
S 2171ST ST
S 2175TH ST
S 2179TH ST
S 2183RD ST
S 2187TH ST
S 2191ST ST
S 2195TH ST
S 2199TH ST
S 2203RD ST
S 2207TH ST
S 2211TH ST
S 2215TH ST
S 2219TH ST
S 2223RD ST
S 2227TH ST
S 2231ST ST
S 2235TH ST
S 2239TH ST
S 2243RD ST
S 2247TH ST
S 2251ST ST
S 2255TH ST
S 2259TH ST
S 2263RD ST
S 2267TH ST
S 2271ST ST
S 2275TH ST
S 2279TH ST
S 2283RD ST
S 2287TH ST
S 2291ST ST
S 2295TH ST
S 2299TH ST
S 2303RD ST
S 2307TH ST
S 2311TH ST
S 2315TH ST
S 2319TH ST
S 2323RD ST
S 2327TH ST
S 2331ST ST
S 2335TH ST
S 2339TH ST
S 2343RD ST
S 2347TH ST
S 2351ST ST
S 2355TH ST
S 2359TH ST
S 2363RD ST
S 2367TH ST
S 2371ST ST
S 2375TH ST
S 2379TH ST
S 2383RD ST
S 2387TH ST
S 2391ST ST
S 2395TH ST
S 2399TH ST
S 2403RD ST
S 2407TH ST
S 2411TH ST
S 2415TH ST
S 2419TH ST
S 2423RD ST
S 2427TH ST
S 2431ST ST
S 2435TH ST
S 2439TH ST
S 2443RD ST
S 2447TH ST
S 2451ST ST
S 2455TH ST
S 2459TH ST
S 2463RD ST
S 2467TH ST
S 2471ST ST
S 2475TH ST
S 2479TH ST
S 2483RD ST
S 2487TH ST
S 2491ST ST
S 2495TH ST
S 2499TH ST
S 2503RD ST
S 2507TH ST
S 2511TH ST
S 2515TH ST
S 2519TH ST
S 2523RD ST
S 2527TH ST
S 2531ST ST
S 2535TH ST
S 2539TH ST
S 2543RD ST
S 2547TH ST
S 2551ST ST
S 2555TH ST
S 2559TH ST
S 2563RD ST
S 2567TH ST
S 2571ST ST
S 2575TH ST
S 2579TH ST
S 2583RD ST
S 2587TH ST
S 2591ST ST
S 2595TH ST
S 2599TH ST
S 2603RD ST
S 2607TH ST
S 2611TH ST
S 2615TH ST
S 2619TH ST
S 2623RD ST
S 2627TH ST
S 2631ST ST
S 2635TH ST
S 2639TH ST
S 2643RD ST
S 2647TH ST
S 2651ST ST
S 2655TH ST
S 2659TH ST
S 2663RD ST
S 2667TH ST
S 2671ST ST
S 2675TH ST
S 2679TH ST
S 2683RD ST
S 2687TH ST
S 2691ST ST
S 2695TH ST
S 2699TH ST
S 2703RD ST
S 2707TH ST
S 2711TH ST
S 2715TH ST
S 2719TH ST
S 2723RD ST
S 2727TH ST
S 2731ST ST
S 2735TH ST
S 2739TH ST
S 2743RD ST
S 2747TH ST
S 2751ST ST
S 2755TH ST
S 2759TH ST
S 2763RD ST
S 2767TH ST
S 2771ST ST
S 2775TH ST
S 2779TH ST
S 2783RD ST
S 2787TH ST
S 2791ST ST
S 2795TH ST
S 2799TH ST
S 2803RD ST
S 2807TH ST
S 2811TH ST
S 2815TH ST
S 2819TH ST
S 2823RD ST
S 2827TH ST
S 2831ST ST
S 2835TH ST
S 2839TH ST
S 2843RD ST
S 2847TH ST
S 2851ST ST
S 2855TH ST
S 2859TH ST
S 2863RD ST
S 2867TH ST
S 2871ST ST
S 2875TH ST
S 2879TH ST
S 2883RD ST
S 2887TH ST
S 2891ST ST
S 2895TH ST
S 2899TH ST
S 2903RD ST
S 2907TH ST
S 2911TH ST
S 2915TH ST
S 2919TH ST
S 2923RD ST
S 2927TH ST
S 2931ST ST
S 2935TH ST
S 2939TH ST
S 2943RD ST
S 2947TH ST
S 2951ST ST
S 2955TH ST
S 2959TH ST
S 2963RD ST
S 2967TH ST
S 2971ST ST
S 2975TH ST
S 2979TH ST
S 2983RD ST
S 2987TH ST
S 2991ST ST
S 2995TH ST
S 2999TH ST
S 3003RD ST
S 3007TH ST
S 3011TH ST
S 3015TH ST
S 3019TH ST
S 3023RD ST
S 3027TH ST
S 3031ST ST
S 3035TH ST
S 3039TH ST
S 3043RD ST
S 3047TH ST
S 3051ST ST
S 3055TH ST
S 3059TH ST
S 3063RD ST
S 3067TH ST
S 3071ST ST
S 3075TH ST
S 3079TH ST
S 3083RD ST
S 3087TH ST
S 3091ST ST
S 3095TH ST
S 3099TH ST
S 3103RD ST
S 3107TH ST
S 3111TH ST
S 3115TH ST
S 3119TH ST
S 3123RD ST
S 3127TH ST
S 3131ST ST
S 3135TH ST
S 3139TH ST
S 3143RD ST
S 3147TH ST
S 3151ST ST
S 3155TH ST
S 3159TH ST
S 3163RD ST
S 3167TH ST
S 3171ST ST
S 3175TH ST
S 3179TH ST
S 3183RD ST
S 3187TH ST
S 3191ST ST
S 3195TH ST
S 3199TH ST
S 3203RD ST
S 3207TH ST
S 3211TH ST
S 3215TH ST
S 3219TH ST
S 3223RD ST
S 3227TH ST
S 3231ST ST
S 3235TH ST
S 3239TH ST
S 3243RD ST
S 3247TH ST
S 3251ST ST
S 3255TH ST
S 3259TH ST
S 3263RD ST
S 3267TH ST
S 3271ST ST
S 3275TH ST
S 3279TH ST
S 3283RD ST
S 3287TH ST
S 3291ST ST
S 3295TH ST
S 3299TH ST
S 3303RD ST
S 3307TH ST
S 3311TH ST
S 3315TH ST
S 3319TH ST
S 3323RD ST
S 3327TH ST
S 3331ST ST
S 3335TH ST
S 3339TH ST
S 3343RD ST
S 3347TH ST
S 3351ST ST
S 3355TH ST
S 3359TH ST
S 3363RD ST
S 3367TH ST
S 3371ST ST
S 3375TH ST
S 3379TH ST
S 3383RD ST
S 3387TH ST
S 3391ST ST
S 3395TH ST
S 3399TH ST
S 3403RD ST
S 3407TH ST
S 3411TH ST
S 3415TH ST
S 3419TH ST
S 3423RD ST
S 3427TH ST
S 3431ST ST
S 3435TH ST
S 3439TH ST
S 3443RD ST
S 3447TH ST
S 3451ST ST
S 3455TH ST
S 3459TH ST
S 3463RD ST
S 3467TH ST
S 3471ST ST
S 3475TH ST
S 3479TH ST
S 3483RD ST
S 3487TH ST
S 3491ST ST
S 3495TH ST
S 3499TH ST
S 3503RD ST
S 3507TH ST
S 3511TH ST
S 3515TH ST
S 3519TH ST
S 3523RD ST
S 3527TH ST
S 3531ST ST
S 3535TH ST
S 3539TH ST
S 3543RD ST
S 3547TH ST
S 3551ST ST
S 3555TH ST
S 3559TH ST
S 3563RD ST
S 3567TH ST
S 3571ST ST
S 3575TH ST
S 3579TH ST
S 3583RD ST
S 3587TH ST
S 3591ST ST
S 3595TH ST
S 3599TH ST
S 3603RD ST
S 3607TH ST
S 3611TH ST
S 3615TH ST
S 3619TH ST
S 3623RD ST
S 3627TH ST
S 3631ST ST
S 3635TH ST
S 3639TH ST
S 3643RD ST
S 3647TH ST
S 3651ST ST
S 3655TH ST
S 3659TH ST
S 3663RD ST
S 3667TH ST
S 3671ST ST
S 3675TH ST
S 3679TH ST
S 3683RD ST
S 3687TH ST
S 3691ST ST
S 3695TH ST
S 3699TH ST
S 3703RD ST
S 3707TH ST
S 3711TH ST
S 3715TH ST
S 3719TH ST
S 3723RD ST
S 3727TH ST
S 3731ST ST
S 3735TH ST
S 3739TH ST
S 3743RD ST
S 3747TH ST
S 3751ST ST
S 3755TH ST
S 3759TH ST
S 3763RD ST
S 3767TH ST
S 3771ST ST
S 3775TH ST
S 3779TH ST
S 3783RD ST
S 3787TH ST
S 3791ST ST
S 3795TH ST
S 3799TH ST
S 3803RD ST
S 3807TH ST
S 3811TH ST
S 3815TH ST
S 3819TH ST
S 3823RD ST
S 3827TH ST
S 3831ST ST
S 3835TH ST
S 3839TH ST
S 3843RD ST
S 3847TH ST
S 3851ST ST
S 3855TH ST
S 3859TH ST
S 3863RD ST
S 3867TH ST
S 3871ST ST
S 3875TH ST
S 3879TH ST
S 3883RD ST
S 3887TH ST
S 3891ST ST
S 3895TH ST
S 3899TH ST
S 3903RD ST
S 3907TH ST
S 3911TH ST
S 3915TH ST
S 3919TH ST
S 3923RD ST
S 3927TH ST
S 3931ST ST
S 3935TH ST
S 3939TH ST
S 3943RD ST
S 3947TH ST
S 3951ST ST
S 3955TH ST
S 3959TH ST
S 3963RD ST
S 3967TH ST
S 3971ST ST
S 3975TH ST
S 3979TH ST
S 3983RD ST
S 3987TH ST
S 3991ST ST
S 3995TH ST
S 3999TH ST
S 4003RD ST
S 4007TH ST
S 4011TH ST
S 4015TH ST
S 4019TH ST
S 4023RD ST
S 4027TH ST
S 4031ST ST
S 4035TH ST
S 4039TH ST
S 4043RD ST
S 4047TH ST
S 4051ST ST
S 4055TH ST
S 4059TH ST
S 4063RD ST
S 4067TH ST
S 4071ST ST
S 4075TH ST
S 4079TH ST
S 4083RD ST
S 4087TH ST
S 4091ST ST
S 4095TH ST
S 4099TH ST
S 4103RD ST
S 4107TH ST
S 4111TH ST
S 4115TH ST
S 4119TH ST
S 4123RD ST
S 4127TH ST
S 4131ST ST
S 4135TH ST
S 4139TH ST
S 4143RD ST
S 4147TH ST
S 4151ST ST
S 4155TH ST
S 4159TH ST
S 4163RD ST
S 4167TH ST
S 4171ST ST
S 4175TH ST
S 4179TH ST
S 4183RD ST
S 4187TH ST
S 4191ST ST
S 4195TH ST
S 4199TH ST
S 4203RD ST
S 4207TH ST
S 4211TH ST
S 4215TH ST
S 4219TH ST
S 4223RD ST
S 4227TH ST
S 4231ST ST
S 4235TH ST
S 4239TH ST
S 4243RD ST
S 4247TH ST
S 4251ST ST
S 4255TH ST
S 4259TH ST
S 4263RD ST
S 4267TH ST
S 4271ST ST
S 4275TH ST
S 4279TH ST
S 4283RD ST
S 4287TH ST
S 4291ST ST
S 4295TH ST
S 4299TH ST
S 4303RD ST
S 4307TH ST
S 4311TH ST
S 4315TH ST
S 4319TH ST
S 4323RD ST
S 4327TH ST
S 4331ST ST
S 4335TH ST
S 4339TH ST
S 4343RD ST
S 4347TH ST
S 4351ST ST
S 4355TH ST
S 4359TH ST
S 4363RD ST
S 4367TH ST
S 4371ST ST
S 4375TH ST
S 4379TH ST
S 4383RD ST
S 4387TH ST
S 4391ST ST
S 4395TH ST
S 4399TH ST
S 4403RD ST
S 4407TH ST
S 4411TH ST
S 4415TH ST
S 4419TH ST
S 4423RD ST
S 4427TH ST
S 4431ST ST
S 4435TH ST
S 4439TH ST
S 4443RD ST
S 4447TH ST
S 4451ST ST
S 4455TH ST
S 4459TH ST
S 4463RD ST
S 4467TH ST
S 4471ST ST
S 4475TH ST
S 4479TH ST
S 4483RD ST
S 4487TH ST
S 4491ST ST
S 4495TH ST
S 4499TH ST
S 4503RD ST
S 4507TH ST
S 4511TH ST
S 4515TH ST
S 4519TH ST
S 4523RD ST
S 4527TH ST
S 4531ST ST
S 4535TH ST
S 4539TH ST
S 4543RD ST
S 4547TH ST
S 4551ST ST
S 4555TH ST
S 4559TH ST
S 4563RD ST
S 4567TH ST
S 4571ST ST
S 4575TH ST
S 4579TH ST
S 4583RD ST
S 4587TH ST
S 4591ST ST
S 4595TH ST
S 4599TH ST
S 4603RD ST
S 4607TH ST
S 4611TH ST
S 4615TH ST
S 4619TH ST
S 4623RD ST
S 4627TH ST
S 4631ST ST
S 4635TH ST
S 4639TH ST
S 4643RD ST
S 4647TH ST
S 4651ST ST
S 4655TH ST
S 4659TH ST
S 4663RD ST
S 4667TH ST
S 4671ST ST
S 4675TH ST
S 4679TH ST
S 4683RD ST
S 4687TH ST
S 4691ST ST
S 4695TH ST
S 4699TH ST
S 4703RD ST
S 4707TH ST
S 4711TH ST
S 4715TH ST
S 4719TH ST
S 4723RD ST
S 4727TH ST
S 4731ST ST
S 4735TH ST
S 4739TH ST
S 4743RD ST
S 4747TH ST
S 4751ST ST
S 4755TH ST
S 4759TH ST
S 4763RD ST
S 4767TH ST
S 4771ST ST
S 4775TH ST
S 4779TH ST
S 4783RD ST
S 4787TH ST
S 4791ST ST
S 4795TH ST
S 4799TH ST
S 4803RD ST
S 4807TH ST
S 4811TH ST
S 4815TH ST
S 4819TH ST
S 4823RD ST
S 4827TH ST
S 4831ST ST
S 4835TH ST
S 4839TH ST
S 4843RD ST
S 4847TH ST
S 4851ST ST
S 4855TH ST
S 4859TH ST
S 4863RD ST
S 4867TH ST
S 4871ST ST
S 4875TH ST
S 4879TH ST
S 4883RD ST
S 4887TH ST
S 4891ST ST
S 4895TH ST
S 4899TH ST
S 4903RD ST
S 4907TH ST
S 4911TH ST
S 4915TH ST
S 4919TH ST
S 4923RD ST
S 4927TH ST
S 4931ST ST
S 4935TH ST
S 4939TH ST
S 4943RD ST
S 4947TH ST
S 4951ST ST
S 4955TH ST
S 4959TH ST
S 4963RD ST
S 4967TH ST
S 4971ST ST
S 4975TH ST
S 4979TH ST
S 4983RD ST
S 4987TH ST
S 4991ST ST
S 4995TH ST
S 4999TH ST
S 5003RD ST
S 5007TH ST
S 5011TH ST
S 5015TH ST
S 5019TH ST
S 5023RD ST
S 5027TH ST
S 5031ST ST
S 5035TH ST
S 5039TH ST
S 5043RD ST
S 5047TH ST
S 5051ST ST
S 5055TH ST
S 5059TH ST
S 5063RD ST
S 5067TH ST
S 5071ST ST
S 5075TH ST
S 5079TH ST
S 5083RD ST
S 5087TH ST
S 5091ST ST
S 5095TH ST
S 5099TH ST
S 5103RD ST
S 5107TH ST
S 5111TH ST
S 5115TH ST
S 5119TH ST
S 5123RD ST
S 5127TH ST
S 5131ST ST
S 5135TH ST
S 5139TH ST
S 5143RD ST
S 5147TH ST
S 5151ST ST
S 5155TH ST
S 5159TH ST
S 5163RD ST
S 5167TH ST
S 5171ST ST
S 5175TH ST
S 5179TH ST
S 5183RD ST
S 5187TH ST
S 5191ST ST
S 5195TH ST
S 5199TH ST
S 5203RD ST
S 5207TH ST
S 5211TH ST
S 5215TH ST
S 5219TH ST
S 5223RD ST
S 5227TH ST
S 5231ST ST
S 5235TH ST
S 5239TH ST
S 5243RD ST
S 5247TH ST
S 5251ST ST
S 5255TH ST
S 5259TH ST
S 5263RD ST
S 5267TH ST
S 5271ST ST
S 5275TH ST
S 5279TH ST
S 5283RD ST
S 5287TH ST
S 5291ST ST
S 5295TH ST
S 5299TH ST
S 5303RD ST
S 5307TH ST
S 5311TH ST
S 5315TH ST
S 5319TH ST
S 5323RD ST
S 5327TH ST
S 5331ST ST
S 5335TH ST
S 5339TH ST
S 5343RD ST
S 5347TH ST
S 5351ST ST
S 5355TH ST
S 5359TH ST
S 5363RD ST
S 5367TH ST
S 5371ST ST
S 5375TH ST
S 5379TH ST
S 5383RD ST
S 5387TH ST
S 5391ST ST
S 5395TH ST
S 5399TH ST
S 5403RD ST
S 5407TH ST
S 5411TH ST
S 5415TH ST
S 5419TH ST
S 5423RD ST
S 5427TH ST
S 5431ST ST
S 5435TH ST
S 5439TH ST
S 5443RD ST
S 5447TH ST
S 5451ST ST
S 5455TH ST
S 5459TH ST
S 5463RD ST
S 5467TH ST
S 5471ST ST
S 5475TH ST
S 5479TH ST
S 5483RD ST
S 5487TH ST
S 5491ST ST
S 5495TH ST
S 5499TH ST
S 5503RD ST
S 5507TH ST
S 5511TH ST
S 5515TH ST
S 5519TH ST
S 5523RD ST
S 5527TH ST
S 5531ST ST
S 5535TH ST
S 5539TH ST
S 5543RD ST
S 5547TH ST
S 5551ST ST
S 5555TH ST
S 5559TH ST
S 5563RD ST
S 5567TH ST
S 5571ST ST
S 5575TH ST
S 5579TH ST
S 5583RD ST
S 5587TH ST
S 5591ST ST
S 5595TH ST
S 5599TH ST
S 5603RD ST
S 5607TH ST
S 5611TH ST
S 5615TH ST
S 5619TH ST
S 5623RD ST
S 5627TH ST
S 5631ST ST
S 5635TH ST
S 5639TH ST
S 5643RD ST
S 5647TH ST
S 5651ST ST
S 5655TH ST
S 5659TH ST
S 5663RD ST
S 5667TH ST
S 5671ST ST
S 5675TH ST
S 5679TH ST
S 5683RD ST
S 5687TH ST
S 5691ST ST
S 5695TH ST
S 5699TH ST
S 5703RD ST
S 5707TH ST
S 5711TH ST
S 5715TH ST
S 5719TH ST
S 5723RD ST
S 5727TH ST
S 5731ST ST
S 5735TH ST
S 5739TH ST
S 5743RD ST
S 5747TH ST
S 5751ST ST
S 5755TH ST
S 5759TH ST
S 5763RD ST
S 5767TH ST
S 5771ST ST
S 5775TH ST
S 5779TH ST
S 5783RD ST
S 5787TH ST
S 5791ST ST
S 5795TH ST
S 5799TH ST
S 5803RD ST
S 5807TH ST
S 5811TH ST
S 5815TH ST
S 5819TH ST
S 5823RD ST
S 5827TH ST
S 5831ST ST
S 5835TH ST
S 5839TH ST
S 5843RD ST
S 5847TH ST
S 5851ST ST
S 5855TH ST
S 5859TH ST
S 5863RD ST
S 5867TH ST
S 5871ST ST
S 5875TH ST
S 5879TH ST
S 5883RD ST
S 5887TH ST
S 5891ST ST
S 5895TH ST
S 5899TH ST
S 5903RD ST
S 5907TH ST
S 5911TH ST
S 5915TH ST
S 5919TH ST
S 5923RD ST
S 5927TH ST
S 5931ST ST
S 5935TH ST
S 5939TH ST
S 5943RD ST
S 5947TH ST
S 5951ST ST
S 5955TH ST
S 5959TH ST
S 5963RD ST
S 5967TH ST
S 5971ST ST
S 5975TH ST
S 5979TH ST
S 5983RD ST
S 5987TH ST
S 5991ST ST
S 5995TH ST
S 5999TH ST
S 6003RD ST
S 6007TH ST
S 6011TH ST
S 6015TH ST
S 6019TH ST
S 6023RD ST
S 6027TH ST
S 6031ST ST
S 6035TH ST
S 6039TH ST
S 6043RD ST
S 6047TH ST
S 6051ST ST
S 6055TH ST
S 6059TH ST
S 6063RD ST
S 6067TH ST
S 6071ST ST
S 6075TH ST
S 6079TH ST
S 6083RD ST
S 6087TH ST
S 6091ST ST
S 6095TH ST
S 6099TH ST
S 6103RD ST
S 6107TH ST
S 6111TH ST
S 6115TH ST
S 6119TH ST
S 6123RD ST
S 6127TH ST
S 6131ST ST
S 6135TH ST
S 6139TH ST
S 6143RD ST
S 6147TH ST
S 6151ST ST
S 6155TH ST
S 6159TH ST
S 6163RD ST
S 6167TH ST
S 6171ST ST
S 6175TH ST
S 6179TH ST
S 6183RD ST
S 6187TH ST
S 6191ST ST
S 6195TH ST
S 6199TH ST
S 6203RD ST
S 6207TH ST
S 6211TH ST
S 6215TH ST
S 6219TH ST
S 6223RD ST
S 6227TH ST
S 6231ST ST
S 6235TH ST
S 6239TH ST
S 6243RD ST
S 6247TH ST
S 6251ST ST
S 6255TH ST
S 6259TH ST
S 6263RD ST
S 6267TH ST
S 6271ST ST
S 6275TH ST
S 6279TH ST
S 6283RD ST
S 6287TH ST
S 6291ST ST
S 6295TH ST
S 6299TH ST
S 6303RD ST
S 6307TH ST
S 6311TH ST
S 6315TH ST
S 6319TH ST
S 6323RD ST
S 6327TH ST
S 6331ST ST
S 6335TH ST
S 6339TH ST
S 6343RD ST
S 6347TH ST
S 6351ST ST
S 6355TH ST
S 6359TH ST
S 6363RD ST
S 6367TH ST
S 6371ST ST
S 6375TH ST
S 6379TH ST
S 6383RD ST
S 6387TH ST
S 6391ST ST
S 6395TH ST
S 6399TH ST
S 6403RD ST
S 6407TH ST
S 6411TH ST
S 6415TH ST
S 6419TH ST
S 6423RD ST
S 6427TH ST
S 6431ST ST
S 6435TH ST
S 6439TH ST
S 6443RD ST
S 6447TH ST
S 6451ST ST
S 6455TH ST
S 6459TH ST
S 6463RD ST
S 6467TH ST
S 6471ST ST
S 6475TH ST
S 6479TH ST
S 6483RD ST
S 6487TH ST
S 6491ST ST
S 6495TH ST
S 6499TH ST
S 6503RD ST
S 6507TH ST
S 6511TH ST
S 6515TH ST
S 6519TH ST
S 6523RD ST
S 6527TH ST
S 6531ST ST
S 6535TH ST
S 6539TH ST
S 6543RD ST
S 6547TH ST
S 6551ST ST
S 6555TH ST
S 6559TH ST
S 6563RD ST
S 6567TH ST
S 6571ST ST
S 6575TH ST
S 6579TH ST
S 6583RD ST
S 6587TH ST
S 6591ST ST
S 6595TH ST
S 6599TH ST
S 6603RD ST
S 6607TH ST
S 6611TH ST
S 6615TH ST
S 6619TH ST
S 6623RD ST
S 6627TH ST
S 6631ST ST
S 6635TH ST
S 6639TH ST
S 6643RD ST
S 6647TH ST
S 6651ST ST
S 6655TH ST
S 6659TH ST
S 6663RD ST
S 6667TH ST
S 6671ST ST
S 6675TH ST
S 6679TH ST
S 6683RD ST
S 6687TH ST
S 6691ST ST
S 6695TH ST
S 6699TH ST
S 6703RD ST
S 6707TH ST
S 6711TH ST
S 6715TH ST
S 6719TH ST
S 6723RD ST
S 6727TH ST
S 6731ST ST
S 6735TH ST
S 6739TH ST
S 6743RD ST
S 6747TH ST
S 6751ST ST
S 6755TH ST
S 6759TH ST
S 6763RD ST
S 6767TH ST
S 6771ST ST
S 6775TH ST
S 6779TH ST
S 6783RD ST
S 6787TH ST
S 6791ST ST
S 6795TH ST
S 6799TH ST
S 6803RD ST
S 6807TH ST
S 6811TH ST
S 6815TH ST
S 6819TH ST
S 6823RD ST
S 6827TH ST
S 6831ST ST
S 6835TH ST
S 6839TH ST
S 6843RD ST
S 6847TH ST
S 6851ST ST
S 6855TH ST
S 6859TH ST
S 6863RD ST
S 6867TH ST
S 6871ST ST
S 6875TH ST
S 6879TH ST
S 6883RD ST
S 6887TH ST
S 6891ST ST
S 6895TH ST
S 6899TH ST
S 6903RD ST
S 6907TH ST
S 6911TH ST
S 6915TH ST
S 6919TH ST
S 6923RD ST
S 6927TH ST
S 6931ST ST
S 6935TH ST
S 6939TH ST
S 6943RD ST
S 6947TH ST
S 6951ST ST
S 6955TH ST
S 6959TH ST
S 6963RD ST
S 6967TH ST
S 6971ST ST
S 6975TH ST
S 6979TH ST
S 6983RD ST
S 6987TH ST
S 6991ST ST
S 6995TH ST
S 6999TH ST
S 7003RD ST
S 7007TH ST
S 7011TH ST
S 7015TH ST
S 7019TH ST
S 7023RD ST
S 7027TH ST
S 7031ST ST
S 7035TH ST
S 7039TH ST
S 7043RD ST
S 7047TH ST
S 7051ST ST
S 7055TH ST
S 7059TH ST
S 7063RD ST
S 7067TH ST
S 7071ST ST
S 7075TH ST
S 7079TH ST
S 7083RD ST
S 7087TH ST
S 7091ST ST
S 7095TH ST
S 7099TH ST
S 7103RD ST
S 7107TH ST
S 7111TH ST
S 7115TH ST
S 7119TH ST
S 7123RD ST
S 7127TH ST
S 7131ST ST
S 7135TH ST
S 7139TH ST
S 7

TOPOGRAPHIC MAP - 0158301.3r - ATC/ATEC Associates, Inc.



0 1/2 1 2 Miles

- Major Roads
- Contour Lines
- Waterways
- Earthquake epicenter, Richter 5 or greater
- Closest Federal Well in quadrant
- Closest State Well in quadrant
- Closest public water supply well

TARGET PROPERTY:	Fruehauf Trailer Corporation	CUSTOMER:	ATC/ATEC Associates. Inc.
ADDRESS:	902 South 7th Street	CONTACT:	Alison Scanlan
CITY/STATE/ZIP:	Phoenix AZ 85004	INQUIRY #:	0158301.3r
LAT/LONG:	33.4393 / 112.0643	DATE:	February 06. 1997 11:24 am

GEOCHECK VERSION 2.1
SUMMARY

GEOLOGIC AGE IDENTIFICATION†

Geologic Code:	Q
Era:	Cenozoic
System:	Quaternary
Series:	Quaternary

ROCK STRATIGRAPHIC UNIT†

Category:	Stratifed Sequence

GROUNDWATER FLOW INFORMATION

Groundwater flow direction for a particular site is best determined by a qualified environmental professional using site-specific well data. If such data is not reasonably ascertainable, it may be necessary to rely on other sources of information, including well data collected on nearby properties, regional groundwater flow information (from deep aquifers), or surface topography.‡

General Topographic Gradient: General South

General Hydrogeologic Gradient: The hydrogeologic gradient for this report has been determined using the depth to water table information provided below. Where available, the closest well in each quadrant has been identified (up to a radius of 5 miles around the target property) and used in the gradient calculation. While an attempt has been made to segregate shallow from deep aquifers, this cannot always be assured. Groundwater flow in the aquifer associated with the wells appears generally to be to the WSW. This would appear to be in conflict with the topographical gradient. The direction of the groundwater flow should be determined by a qualified environmental professional.

USGS TOPOGRAPHIC MAP ASSOCIATED WITH THIS SITE

Target Property: 2433112-D1 PHOENIX, AZ

FEDERAL DATABASE WELL INFORMATION

WELL QUADRANT	DISTANCE FROM TP	LITHOLOGY	DEPTH TO WATER TABLE
Northern	1/2 - 1 Mile	Not Reported	100 ft.
Eastern	1 - 2 Miles	Not Reported	35 ft.
Southern	1 - 2 Miles	Not Reported	77 ft.
Western	1 - 2 Miles	Not Reported	73 ft.

STATE DATABASE WELL INFORMATION

WELL QUADRANT	DISTANCE FROM TP
NO WELLS FOUND	

PUBLIC WATER SUPPLY SYSTEM INFORMATION (EPA-FRDS)

Searched by Nearest Well.
NOTE: PWS System location is not always the same as well location.

PWS Name:	ADOT CEDAR POCKETS R/A 206 S 17TH AVE 176A PHOENIX, AZ 85007
Location Relative to TP:	1/2 - 1 Mile North
Well currently has or has had major violation(s):	Yes

† Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - A Digital Representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994)
‡ U.S. EPA Ground Water Handbook, Vol. I: Ground Water and Contamination, Office of Research and Development, EPA/625/6-90/016a Chapter 4, page 78, September 1990

GEOCHECK VERSION 2.1
SUMMARY

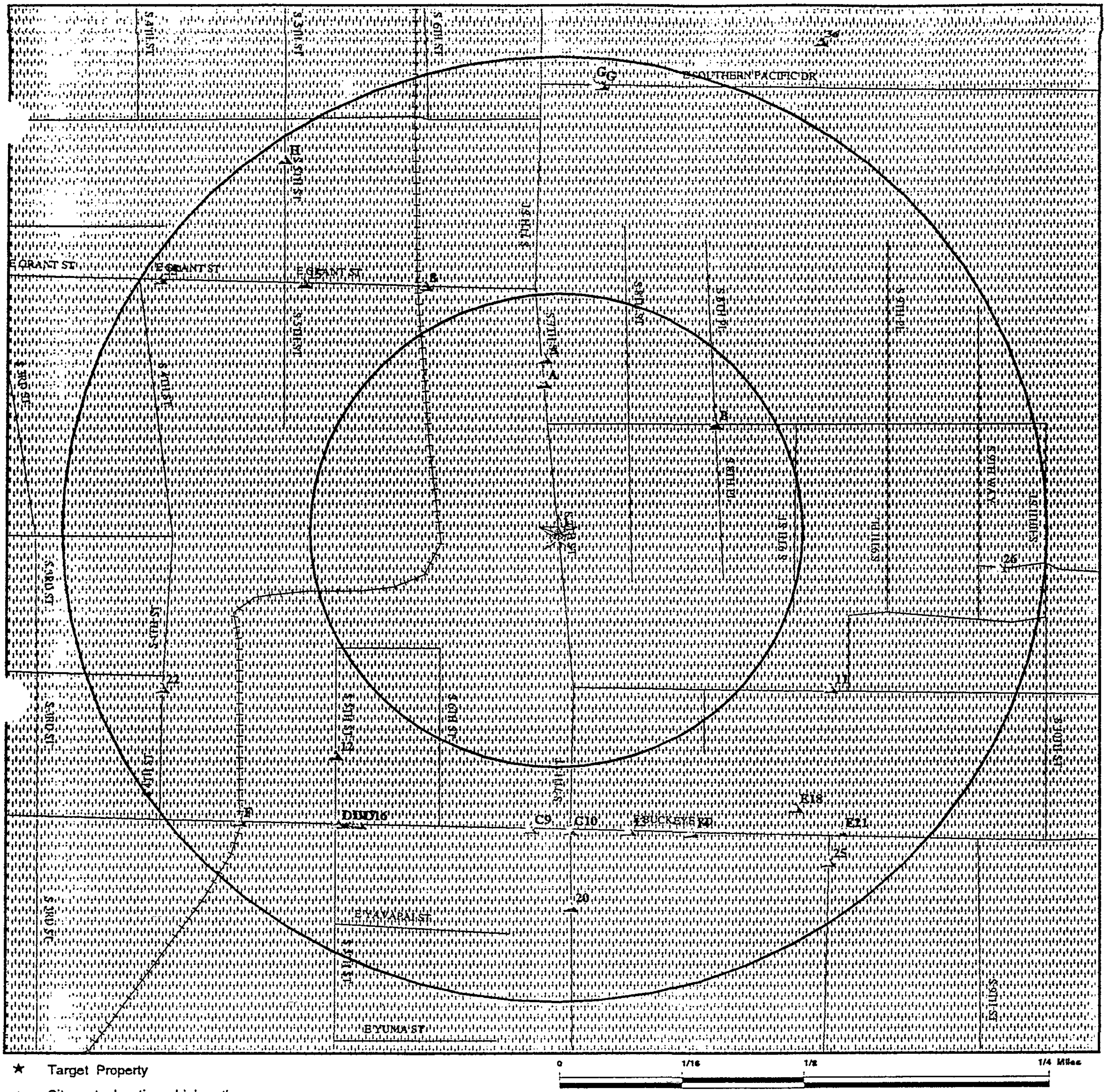
AREA RADON INFORMATION

MARICOPA COUNTY, AZ

Number of sites tested: 695

Area	Average Activity	% <4 pCi/L	% 4-20 pCi/L	% >20 pCi/L
Living Area - 1st Floor	1.697 pCi/L	93%	7%	0%
Living Area - 2nd Floor	3.640 pCi/L	80%	20%	0%
Basement	2.242 pCi/L	79%	21%	0%

DETAIL MAP - 0158301.3r - ATC/ATEC Associates, Inc.



- ★ Target Property
- ▲ Sites at elevations higher than or equal to the target property
- ◆ Sites at elevations lower than the target property
- Coal Gasification Sites (if requested)
- Sensitive Receptors
- National Priority List Sites
- Landfill Sites
- Power transmission lines
- Oil & Gas pipelines
- Dept. of Defense Sites
- Water Quality Assurance Revolving Fund Areas

TARGET PROPERTY:	Fruehauf Trailer Corporation	CUSTOMER:	ATC/ATEC Associates. Inc.
ADDRESS:	902 South 7th Street	CONTACT:	Alison Scanlan
CITY/STATE/ZIP:	Phoenix AZ 85004	INQUIRY #:	0158301.3r
LAT/LONG:	33.4393 / 112.0643	DATE:	February 06, 1997 11:21 am

MAP FINDINGS SUMMARY SHOWING
ALL SITES

Database	Target Property	Search Distance (Miles)	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
NPL		1.000	0	0	0	0	NR	0
Delisted NPL		TP	NR	NR	NR	NR	NR	0
RCRIS-TSD		1.000	0	0	0	0	NR	0
State Haz. Waste		1.000	2	8	2	18	NR	30
CERCLIS		0.500	0	0	0	NR	NR	0
CERC-NFRAP		TP	NR	NR	NR	NR	NR	0
CORRACTS		1.000	0	0	0	0	NR	0
State Landfill		0.500	0	0	0	NR	NR	0
Az Wqarf		TP	NR	NR	NR	NR	NR	0
Az DOD		TP	NR	NR	NR	NR	NR	0
Az WWFAC		TP	NR	NR	NR	NR	NR	0
LUST	X	0.500	2	8	7	NR	NR	17
UST	X	0.250	4	16	NR	NR	NR	20
RAATS		TP	NR	NR	NR	NR	NR	0
RCRIS Sm. Quan. Gen.		0.250	1	6	NR	NR	NR	7
RCRIS Lg. Quan. Gen.		0.250	0	0	NR	NR	NR	0
HMIRS		TP	NR	NR	NR	NR	NR	0
PADS		TP	NR	NR	NR	NR	NR	0
ERNS		TP	NR	NR	NR	NR	NR	0
FINDS		TP	NR	NR	NR	NR	NR	0
TRIS		TP	NR	NR	NR	NR	NR	0
NPL Liens		TP	NR	NR	NR	NR	NR	0
TSCA		TP	NR	NR	NR	NR	NR	0
MLTS		TP	NR	NR	NR	NR	NR	0
Az. Dry Well		TP	NR	NR	NR	NR	NR	0
Arizona Spills		TP	NR	NR	NR	NR	NR	0
Az Aquifers		1.000	0	0	0	0	NR	0
ROD		1.000	0	0	0	0	NR	0
CONSENT		1.000	0	0	0	0	NR	0
Coal Gas		1.000	0	0	1	1	NR	2

TP = Target Property

NR = Not Requested at this Search Distance

* Sites may be listed in more than one database

MAP FINDINGS SUMMARY SHOWING
ONLY SITES HIGHER THAN OR THE SAME ELEVATION AS TP

Database	Target Property	Search Distance (Miles)	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
NPL		1.000	0	0	0	0	NR	0
Delisted NPL		TP	NR	NR	NR	NR	NR	0
RCRIS-TSD		1.000	0	0	0	0	NR	0
State Haz. Waste		1.000	2	8	2	17	NR	29
CERCLIS		0.500	0	0	0	NR	NR	0
CERC-NFRAP		TP	NR	NR	NR	NR	NR	0
CORRACTS		1.000	0	0	0	0	NR	0
State Landfill		0.500	0	0	0	NR	NR	0
Az Wqarf		TP	NR	NR	NR	NR	NR	0
Az DOD		TP	NR	NR	NR	NR	NR	0
Az WWFAC		TP	NR	NR	NR	NR	NR	0
LUST	X	0.500	2	8	7	NR	NR	17
UST	X	0.250	4	16	NR	NR	NR	20
RAATS		TP	NR	NR	NR	NR	NR	0
RCRIS Sm. Quan. Gen.		0.250	1	6	NR	NR	NR	7
RCRIS Lg. Quan. Gen.		0.250	0	0	NR	NR	NR	0
HMIRS		TP	NR	NR	NR	NR	NR	0
PADS		TP	NR	NR	NR	NR	NR	0
ERNS		TP	NR	NR	NR	NR	NR	0
FINDS		TP	NR	NR	NR	NR	NR	0
TRIS		TP	NR	NR	NR	NR	NR	0
NPL Liens		TP	NR	NR	NR	NR	NR	0
TSCA		TP	NR	NR	NR	NR	NR	0
MLTS		TP	NR	NR	NR	NR	NR	0
Az. Dry Well		TP	NR	NR	NR	NR	NR	0
Arizona Spills		TP	NR	NR	NR	NR	NR	0
Az Aquifers		1.000	0	0	0	0	NR	0
ROD		1.000	0	0	0	0	NR	0
CONSENT		1.000	0	0	0	0	NR	0
Coal Gas		1.000	0	0	1	1	NR	2

TP = Target Property

NR = Not Requested at this Search Distance

* Sites may be listed in more than one database

Map ID Direction Distance Elevation	Site	Database(s)	EDR ID Number EPA ID Number
1 Target Property	FRUEHAUF TRAILER CORPORATION 902 S 7TH ST PHOENIX, AZ 85034	UST LUST	U001625828 N/A

LUST:

Facility ID:	0-002191	Leak ID:	2620.01
Date Reported:	12/16/1992	Date Closed:	Not reported
Owner ID:	1462		
Owner:	FRUEHAUF TRAILER CORPORATION		
Address:	902 S 7TH STREET PHOENIX, AZ 85034		

UST:

Facility ID:	0-002191	Tank ID:	1
Product:	Gasoline	Tank Status:	Remv
Capacity:	750	Construction Mat:	Bare Steel
Age:	29	Piping Mat:	Bare Steel
Piping Type:	Gravity Fed		
Tank Remed Design:	Not reported		
Piping Remed Design:	Not reported		
Owner:	FRUEHAUF TRAILER CORPORATION		
Owner Address:	902 S 7TH STREET PHOENIX, AZ 85030		

Facility ID:	0-002191	Tank ID:	2
Product:	Used Oil	Tank Status:	Remv
Capacity:	1,200	Construction Mat:	Bare Steel
Age:	15	Piping Mat:	Bare Steel
Piping Type:	Not Marked		
Tank Remed Design:	Not reported		
Piping Remed Design:	Not reported		
Owner:	FRUEHAUF TRAILER CORPORATION		
Owner Address:	902 S 7TH STREET PHOENIX, AZ 85030		

WQARF Region	WEST VAN BUREN PHOENIX, AZ	Az Wqarf	S102019149 N/A

AZ WQARF:

Name:	WEST VAN BUREN		
ID:	25	Name Abbreviation:	WVB
Northern Boundary:	MCDOWELL RD.	Southern Boundary:	SALT RIVER
Western Boundary:	75TH AVE.	Eastern Boundary:	7TH AVE.
File #:	5350	Status:	ACTIVE
County:	MARICOPA	City:	PHOENIX
Type:	WQARF	Acres:	13461

Remark: The West Van Buren project area covers approximatley 25 square miles bounded by McDowell Road from 7th Avenue west to 75th Avenue, south on 75th Avenue to the Roosevelt Canal, to 43rd Avenue and south to the Salt River. Contaminants found in nine plumes of groundwater contamination include trichloroethylene (TCE), 1,1-dichloroethylene (DCE), perchloroethylene (PCE), and petroleum products. Over 100 wells have been installed by ADEQ and potentially responsible parties. Eight voluntary remedialinvestigations are underway. Two partial remediations are taking place. Two groups of interested parties were formed at ADEQ's requst. Negotiations with these groups are taking place.

WQARF Region	EAST WASHINGTON PHOENIX, AZ	Az Wqarf	S102019148 N/A

EAST WASHINGTON (Continued) **S102019148**

AZ WQARF:

Name:	EAST WASHINGTON		
ID:	23	Name Abbreviation:	EW
Northern Boundary:	THOMAS RD.	*Southern Boundary:*	LOWER BUCKEYE RD.
Western Boundary:	7TH AVE.	Eastern Boundary:	48TH ST.
File #:	5160.61	Status:	ACTIVE
County:	MARICOPA	City:	PHOENIX
Type:	WQARF	Acres:	12236

Remark: East Washington, formerly called Eastlake Park, consists of approximately 24 square miles. It is bounded by Thomas Road on the north, 48th Street on the east, Lower Buckeye Road on the south and 7th Avenue on the west. A federal superfund site. Motorola 52nd Street is located immediately east of the East Washington WQARF Project Area. The dept to groundwater ranges from approximately 40 feet along the Salt River and in the eastern part of the site to greater than 80 feet in the northwestern portion of the project area. Groundwater is contaminated with volatile organic compounds including trichloroethylene, perchloroethylene, 1,1,1-trichloroethane, 1,1-dichloroethylene and vinyl chloride. ADEQ has completed the preliminary assessment, site inspection and Phase 1 of the remedial investigation. Phase II of the remedial investigation is being implemented with the installation of additional monitor wells to further define the plume and to locate responsible parties. Motorola is required by a consent decree to identify the portion of the Motorola 52nd Street plume that extends into the East Washington area. There are other major companies who are voluntarily conducting remedial investigations of their property at ADEQ's request.Motorola has already conducted extensive remedial investigation work in the area.

A2 North < 1/8 Higher

KARLSON MACHINE WORKS
743 S. 7TH ST.
PHOENIX, AZ 85034

FINDS 1000482945
CERC-NFRAP AZD983471467
SHWS

CERCLIS-NFRAP Classification Data:

Site Incident Category:	Not reported	Federal Facility:	NO
Ownership Status:	PRIVATE	NPL Status:	NOT ON NPL
EPA Notes:	Not reported		

CERCLIS-NFRAP Assessment History:

Assessment:	DISCOVERY	Completed:	08/02/91
Assessment:	PRELIMINARY ASSESSMENT	Completed:	01/14/93

SHWS:

Facility ID:	871	EPA ID:	AZD983471467
File location:	PA/SI		

A3 North < 1/8 Higher

KARLSON MACHINE WORKS INC
743 S 7TH ST
PHOENIX, AZ 85034

UST U001626151
N/A

KARLSON MACHINE WORKS INC (Continued) **U001626151**

UST:

Facility ID:	0-002815	Tank ID:	1
Product:	Gasoline	Tank Status:	Remv
Capacity:	1,500	Construction Mat:	Bare Steel
Age:	19	Piping Mat:	Bare Steel
Piping Type:	Suction -- No Valve		
Tank Remed Design:	Not reported		
Piping Remed Design:	Not reported		
Owner:	KARLSON MACHINE WORKS INC		
Owner Address:	605 E GRANT STREET PHOENIX, AZ 85004		

Facility ID:	0-002815	Tank ID:	2
Product:	Gasoline	Tank Status:	Remv
Capacity:	2,500	Construction Mat:	Bare Steel
Age:	19	Piping Mat:	Bare Steel
Piping Type:	Pressure		
Tank Remed Design:	Not reported		
Piping Remed Design:	Not reported		
Owner:	KARLSON MACHINE WORKS INC		
Owner Address:	605 E GRANT STREET PHOENIX, AZ 85004		

A4 North < 1/8 Higher | **ROAD MACHINERY CO**
716 S 7TH ST
PHOENIX, AZ 85036 | **RCRIS-SQG**
FINDS
UST
LUST | **1000183486**
AZD009011644

RCRIS:

Owner: ROAD MACHINERY COMPANY
(415) 555-1212

Contact: ENVIRONMENTAL MANAGER
(602) 252-7121

Classification: Small Quantity Generator

Waste	Quantity	Waste	Quantity
D002	0.000 (N)	D004	0.000 (N)

(P) = Pounds , (K) = Kilograms , (M) = Metric Tons , (T) = Tons , (N) = Not Reported

Used Oil Recyc: No

Violation Status: No violations found

LUST:

Facility ID:	0-004163	Leak ID:	3283.01
Date Reported:	01/05/1994	Date Closed:	09/08/1994
Owner ID:	2899		
Owner:	ROAD MACHINERY CO		
Address:	716 S 7TH STR PHOENIX, AZ 85030		

ROAD MACHINERY CO (Continued) **1000183486**

UST:

Facility ID:	0-004163	Tank ID:	1
Product:	Diesel	Tank Status:	Remv
Capacity:	12,000	Construction Mat:	Bare Steel
Age:	14	Piping Mat:	Galvanized Steel
Piping Type:	Not reported		
Tank Remed Design:	Not reported		
Piping Remed Design:	Not reported		
Owner:	ROAD MACHINERY CO		
Owner Address:	716 S 7TH STR PHOENIX, AZ 85030		

Facility ID:	0-004163	Tank ID:	2
Product:	Used Oil	Tank Status:	Remv
Capacity:	1,000	Construction Mat:	Bare Steel
Age:	14	Piping Mat:	Galvanized Steel
Piping Type:	Not reported		
Tank Remed Design:	Not reported		
Piping Remed Design:	Not reported		
Owner:	ROAD MACHINERY CO		
Owner Address:	716 S 7TH STR PHOENIX, AZ 85030		

A5 North < 1/8 Higher

KARLSON MACHINE WORKS INC **UST** **U001626150**
701 S 7TH ST **N/A**
PHOENIX, AZ 85004

UST:

Facility ID:	0-002814	Tank ID:	1
Product:	Gasoline	Tank Status:	Remv
Capacity:	550	Construction Mat:	Unknown
Age:	Unk	Piping Mat:	Unknown
Piping Type:	Not reported		
Tank Remed Design:	Not reported		
Piping Remed Design:	Not reported		
Owner:	KARLSON MACHINE WORKS INC		
Owner Address:	605 E GRANT STREET PHOENIX, AZ 85004		

B6 NE < 1/8 Higher

CHECKER CAB **FINDS** **1000173200**
8TH PLACE & SHERMAN **CERC-NFRAP** **AZD982006900**
PHOENIX, AZ 85034 **SHWS**

CERCLIS-NFRAP Classification Data:

Site Incident Category:	Not reported	Federal Facility:	NO
Ownership Status:	UNKNOWN	NPL Status:	NOT ON NPL
EPA Notes:	Not reported		

CERCLIS-NFRAP Assessment History:

Assessment:	DISCOVERY	Completed:	06/01/87
Assessment:	PRELIMINARY ASSESSMENT	Completed:	09/01/88

SHWS:

Facility ID:	373	EPA ID:	AZD982006900
File location:	PA/SI		

Map ID Direction Distance Elevation	Site	Database(s)	EDR ID Number EPA ID Number
B7 ENE < 1/8 Higher	**ARNETT TRANSPORTATION 830 E SHERMAN ST PHOENIX, AZ 85034**	**UST LUST**	**U003050697 N/A**

LUST:

Facility ID:	0-007059	Leak ID:	1629.01
Date Reported:	01/13/1995	Date Closed:	Not reported
Owner ID:	985		
Owner:	ARNETT TRANSPORTATION		
Address:	156 E MOHAVE PHOENIX, AZ 85004		

Facility ID:	0-007059	Leak ID:	1629.03
Date Reported:	01/13/1995	Date Closed:	Not reported
Owner ID:	985		
Owner:	ARNETT TRANSPORTATION		
Address:	156 E MOHAVE PHOENIX, AZ 85004		

Facility ID:	0-007059	Leak ID:	1629.02
Date Reported:	01/13/1995	Date Closed:	Not reported
Owner ID:	985		
Owner:	ARNETT TRANSPORTATION		
Address:	156 E MOHAVE PHOENIX, AZ 85004		

Facility ID:	0-007059	Leak ID:	1629.04
Date Reported:	06/28/1996	Date Closed:	Not reported
Owner ID:	985		
Owner:	ARNETT TRANSPORTATION		
Address:	156 E MOHAVE PHOENIX, AZ 85004		

UST:

Facility ID:	0-007059	Tank ID:	1
Product:	Gasoline	Tank Status:	Remv
Capacity:	12,000	Construction Mat:	Bare Steel
Age:	24	Piping Mat:	Galvanized Steel
Piping Type:	Pressure		
Tank Remed Design:	Not reported		
Piping Remed Design:	Not reported		
Owner:	ARNETT TRANSPORTATION		
Owner Address:	156 E MOHAVE PHOENIX, AZ 85004		

Facility ID:	0-007059	Tank ID:	2
Product:	Gasoline	Tank Status:	Remv
Capacity:	12,000	Construction Mat:	Bare Steel
Age:	24	Piping Mat:	Galvanized Steel
Piping Type:	Pressure		
Tank Remed Design:	Not reported		
Piping Remed Design:	Not reported		
Owner:	ARNETT TRANSPORTATION		
Owner Address:	156 E MOHAVE PHOENIX, AZ 85004		

Map ID Direction Distance Elevation	Site	Database(s)	EDR ID Number EPA ID Number

ARNETT TRANSPORTATION (Continued) — **U003050697**

Facility ID:	0-007059	Tank ID:	3
Product:	Used Oil	Tank Status:	Temp
Capacity:	559	Construction Mat:	Bare Steel
Age:	24	Piping Mat:	Bare Steel
Piping Type:	Gravity Fed		
Tank Remed Design:	Not reported		
Piping Remed Design:	Not reported		
Owner:	ARNETT TRANSPORTATION		
Owner Address:	156 E MOHAVE PHOENIX, AZ 85004		

---

8 NNW 1/8-1/4 Higher — **KARLSON MACHINE WORKS INC.**, **605 E GRANT ST**, **PHOENIX, AZ 85004** — SHWS — **S101570036** / **N/A**

SHWS:

Facility ID:	368	EPA ID:	AZD982006975
File location:	PA/SI		

C9 South 1/8-1/4 Higher — **UST (CLOSE)**, **669 E BUCKEYE RD**, **PHOENIX, AZ 85004** — UST — **U003052297** / **N/A**

UST:

Facility ID:	0-008752	Tank ID:	1
Product:	Gasoline	Tank Status:	Temp
Capacity:	1,000	Construction Mat:	Bare Steel
Age:	56	Piping Mat:	Bare Steel
Piping Type:	Not reported		
Tank Remed Design:	Not reported		
Piping Remed Design:	Not reported		
Owner:	FRANCES ZELLER		
Owner Address:	612 E BUCKEYE RD PHOENIX, AZ 85004		

Facility ID:	0-008752	Tank ID:	2
Product:	Gasoline	Tank Status:	Temp
Capacity:	1,000	Construction Mat:	Bare Steel
Age:	56	Piping Mat:	Bare Steel
Piping Type:	Not reported		
Tank Remed Design:	Not reported		
Piping Remed Design:	Not reported		
Owner:	FRANCES ZELLER		
Owner Address:	612 E BUCKEYE RD PHOENIX, AZ 85004		

C10 South 1/8-1/4 Higher — **CIRCLE K # 1569**, **699 E BUCKEYE ROAD**, **PHOENIX, AZ 85004** — UST, LUST — **U001155201** / **N/A**

CIRCLE K # 1569 (Continued) **U001155201**

LUST:

Facility ID:	0-001432	Leak ID:	2210.03
Date Reported:	03/02/1992	Date Closed:	Not reported
Owner ID:	787		
Owner:	CIRCLE K CORPORATION		
Address:	3003 N CENTRAL AVE 18TH FLOOR PHOENIX, AZ 85012		

Facility ID:	0-001432	Leak ID:	2210.01
Date Reported:	03/02/1992	Date Closed:	Not reported
Owner ID:	787		
Owner:	CIRCLE K CORPORATION		
Address:	3003 N CENTRAL AVE 18TH FLOOR PHOENIX, AZ 85012		

Facility ID:	0-001432	Leak ID:	2210.02
Date Reported:	03/02/1992	Date Closed:	Not reported
Owner ID:	787		
Owner:	CIRCLE K CORPORATION		
Address:	3003 N CENTRAL AVE 18TH FLOOR PHOENIX, AZ 85012		

UST:

Facility ID:	0-001432	Tank ID:	1
Product:	Gasoline	Tank Status:	Remv
Capacity:	8,000	Construction Mat:	Bare Steel
Age:	27	Piping Mat:	Fiberglass
Piping Type:	Pressure		
Tank Remed Design:	Tightness Testing		
Piping Remed Design:	Leak Detector		
Owner:	CIRCLE K CORPORATION		
Owner Address:	3003 N CENTRAL AVE 18TH FLOOR PHOENIX, AZ 85012		

Facility ID:	0-001432	Tank ID:	2
Product:	Gasoline	Tank Status:	Remv
Capacity:	8,000	Construction Mat:	Bare Steel
Age:	27	Piping Mat:	Fiberglass
Piping Type:	Pressure		
Tank Remed Design:	Tightness Testing		
Piping Remed Design:	Leak Detector		
Owner:	CIRCLE K CORPORATION		
Owner Address:	3003 N CENTRAL AVE 18TH FLOOR PHOENIX, AZ 85012		

Facility ID:	0-001432	Tank ID:	3
Product:	Gasoline	Tank Status:	Remv
Capacity:	15,000	Construction Mat:	Bare Steel
Age:	14	Piping Mat:	Fiberglass
Piping Type:	Pressure		
Tank Remed Design:	Tightness Testing		
Piping Remed Design:	Leak Detector		
Owner:	CIRCLE K CORPORATION		
Owner Address:	3003 N CENTRAL AVE 18TH FLOOR PHOENIX, AZ 85012		

CIRCLE K # 1569 (Continued) **U001155201**

Facility ID: 0-001432
Product: Gasoline
Capacity: 10,000
Age: 17
Piping Type: Pressure
Tank Remed Design: Tightness Testing
Piping Remed Design: Leak Detector
Owner: CIRCLE K CORPORATION
Owner Address: 3003 N CENTRAL AVE 18TH FLOOR
PHOENIX, AZ 85012
Tank ID: 4
Tank Status: Remv
Construction Mat: Bare Steel
Piping Mat: Fiberglass

Facility ID: 0-001432
Product: Gasoline
Capacity: 10,000
Age: 3
Piping Type: Pressure
Tank Remed Design: Tightness Testing
Piping Remed Design: Leak Detector
Owner: CIRCLE K CORPORATION
Owner Address: 3003 N CENTRAL AVE 18TH FLOOR
PHOENIX, AZ 85012
Tank ID: 5
Tank Status: Curr
Construction Mat: Fiberglass
Piping Mat: Fiberglass

Facility ID: 0-001432
Product: Gasoline
Capacity: 10,000
Age: 3
Piping Type: Pressure
Tank Remed Design: Tightness Testing
Piping Remed Design: Leak Detector
Owner: CIRCLE K CORPORATION
Owner Address: 3003 N CENTRAL AVE 18TH FLOOR
PHOENIX, AZ 85012
Tank ID: 6
Tank Status: Curr
Construction Mat: Fiberglass
Piping Mat: Fiberglass

Facility ID: 0-001432
Product: Gasoline
Capacity: 10,000
Age: 3
Piping Type: Pressure
Tank Remed Design: Tightness Testing
Piping Remed Design: Leak Detector
Owner: CIRCLE K CORPORATION
Owner Address: 3003 N CENTRAL AVE 18TH FLOOR
PHOENIX, AZ 85012
Tank ID: 7
Tank Status: Curr
Construction Mat: Fiberglass
Piping Mat: Fiberglass

11
ESE
1/8-1/4
Higher

INDUSTRIAL REFRIGERATION & BOILE
834 E TONTO ST
PHOENIX, AZ 85034

UST

U001000967
N/A

INDUSTRIAL REFRIGERATION & BOILE (Continued) **U001000967**

UST:

Facility ID:	0-002566	Tank ID:	1
Product:	Gasoline	Tank Status:	Remv
Capacity:	3,000	Construction Mat:	Bare Steel
Age:	18	Piping Mat:	Galvanized Steel
Piping Type:	Not reported		
Tank Remed Design:	Not reported		
Piping Remed Design:	Not reported		
Owner:	INDUSTRIAL REFRIGERATION & BOILE		
Owner Address:	834 E TONTO STREET PHOENIX, AZ 85034		

---

12 SW 1/8-1/4 Higher

DESERT SPECIALTIES
1020 S 5TH ST
PHOENIX, AZ 85004

FINDS 1000219299
CERC-NFRAP AZD982007148
SHWS

CERCLIS-NFRAP Classification Data:

Site Incident Category:	Not reported	Federal Facility:	NO
Ownership Status:	UNKNOWN	NPL Status:	NOT ON NPL
EPA Notes:	Not reported		

CERCLIS-NFRAP Assessment History:

Assessment:	DISCOVERY	Completed:	06/01/87
Assessment:	PRELIMINARY ASSESSMENT	Completed:	09/01/88

SHWS:

Facility ID:	351	EPA ID:	AZD982007148
File location:	PA/SI		

---

13 SSE 1/8-1/4 Higher

KUNDE PROPERTY
723 E BUCKEYE RD
PHOENIX, AZ 85034

UST U003051049
N/A

UST:

Facility ID:	0-008623	Tank ID:	1
Product:	Diesel	Tank Status:	Temp
Capacity:	10,000	Construction Mat:	Bare Steel
Age:	Unk	Piping Mat:	Bare Steel
Piping Type:	Pressure		
Tank Remed Design:	Not reported		
Piping Remed Design:	Not reported		
Owner:	MIKE KUNDE		
Owner Address:	851 S 27TH AVE PHOENIX, AZ 85009		

Facility ID:	0-008623	Tank ID:	2
Product:	Diesel	Tank Status:	Temp
Capacity:	10,000	Construction Mat:	Bare Steel
Age:	Unk	Piping Mat:	Bare Steel
Piping Type:	Pressure		
Tank Remed Design:	Not reported		
Piping Remed Design:	Not reported		
Owner:	MIKE KUNDE		
Owner Address:	851 S 27TH AVE PHOENIX, AZ 85009		

Map ID Direction Distance Elevation	Site	Database(s)	EDR ID Number EPA ID Number

KUNDE PROPERTY (Continued) **U003051049**

Facility ID:	0-008623	Tank ID:	3
Product:	Gasoline	Tank Status:	Temp
Capacity:	10,000	Construction Mat:	Bare Steel
Age:	Unk	Piping Mat:	Bare Steel
Piping Type:	Suction -- No Valve		
Tank Remed Design:	Not reported		
Piping Remed Design:	Not reported		
Owner:	MIKE KUNDE		
Owner Address:	851 S 27TH AVE PHOENIX, AZ 85009		

---

14 SSE 1/8-1/4 Higher	**HAYS ROOFING & SUPPLY INC 747 E BUCKEYE RD PHOENIX, AZ 85034**	**UST LUST**	**U001625965 N/A**

LUST:

Facility ID:	0-002452	Leak ID:	2437.01
Date Reported:	05/22/1992	Date Closed:	Not reported
Owner ID:	1819		
Owner:	J R & LOIS HAYS		
Address:	8027 N 58TH AVE GLENDALE, AZ 85302		

UST:

Facility ID:	0-002452	Tank ID:	1
Product:	Gasoline	Tank Status:	Remv
Capacity:	1,000	Construction Mat:	Bare Steel
Age:	39	Piping Mat:	Unknown
Piping Type:	Suction -- Valve		
Tank Remed Design:	Manual Gauging		
Piping Remed Design:	Line Tightness		
Owner:	J R & LOIS HAYS		
Owner Address:	8027 N 58TH AVE GLENDALE, AZ 85302		

Facility ID:	0-002452	Tank ID:	2
Product:	Gasoline	Tank Status:	Remv
Capacity:	1,000	Construction Mat:	Bare Steel
Age:	39	Piping Mat:	Unknown
Piping Type:	Suction -- Valve		
Tank Remed Design:	Manual Gauging		
Piping Remed Design:	Line Tightness		
Owner:	J R & LOIS HAYS		
Owner Address:	8027 N 58TH AVE GLENDALE, AZ 85302		

---

15 NW 1/8-1/4 Higher	GRANT STREET WAREHOUSE 515 E GRANT ST PHOENIX, AZ 85004	UST Dry Well LUST	U001628911 N/A

GRANT STREET WAREHOUSE (Continued) **U001628911**

LUST:

Facility ID:	0-007566	Leak ID:	0375.01
Date Reported:	11/11/1987	Date Closed:	Not reported
Owner ID:	2410		
Owner:	MOTOROLA INC		
Address:	POST OFFICE BOX 2953 PHOENIX, AZ 85062		

UST:

Facility ID:	8-007566	Tank ID:	1
Product:	Gasoline	Tank Status:	Remv
Capacity:	Unknown	Construction Mat:	Not Marked
Age:	Unk	Piping Mat:	Not Marked
Piping Type:	Not Marked		
Tank Remed Design:	Not reported		
Piping Remed Design:	Not reported		
Owner:	MOTOROLA INC		
Owner Address:	5005 E MCDOWELL ROAD PHOENIX, AZ 85008		

D16 SSW 1/8-1/4 Higher — **NAPA**, 522 E BUCKEYE RD, PHOENIX, AZ 85004 — **UST** — **U003052097**, **N/A**

UST:

Facility ID:	0-007266	Tank ID:	1
Product:	Gasoline	Tank Status:	Remv
Capacity:	1,000	Construction Mat:	Bare Steel
Age:	Unk	Piping Mat:	Bare Steel
Piping Type:	Gravity Fed		
Tank Remed Design:	Not reported		
Piping Remed Design:	Not reported		
Owner:	MRS ZEITLIN/MR DALE ZEITLIN		
Owner Address:	41 WEST VERNON PHOENIX, AZ 85003		

Facility ID:	0-007266	Tank ID:	2
Product:	Used Oil	Tank Status:	Remv
Capacity:	500	Construction Mat:	Bare Steel
Age:	Unk	Piping Mat:	Bare Steel
Piping Type:	Gravity Fed		
Tank Remed Design:	Not reported		
Piping Remed Design:	Not reported		
Owner:	MRS ZEITLIN/MR DALE ZEITLIN		
Owner Address:	41 WEST VERNON PHOENIX, AZ 85003		

D17 SW 1/8-1/4 Higher — **EDEN SALES+MARKETING INC**, 512 E BUCKEYE RD, PHOENIX, AZ 85004 — **RCRIS-SQG** — **1001111557**, **AZR000003780**

Map ID Direction Distance Elevation	Site	Database(s)	EDR ID Number EPA ID Number

EDEN SALES+MARKETING INC (Continued) **1001111557**

RCRIS:
Owner: JAMES R EDEN
(602) 253-5001

Contact: JIM EDEN
(602) 253-5001

Classification: Small Quantity Generator

Waste	Quantity
D002	0.000 (N)

(P) = Pounds , (K) = Kilograms , (M) = Metric Tons , (T) = Tons , (N) = Not Reported

Used Oil Recyc: No

Violation Status: No violations found

E18 SE 1/8-1/4 Higher	**HAY'S ROOFING AND SUPPLY 747 E. BUCKEYE RD. PHOENIX, AZ 85034**	**SHWS**	**S101570317 N/A**

SHWS:
Facility ID: 540 EPA ID: Not reported
File location: WQARF

D19 SW 1/8-1/4 Higher	**CRISPS 502 E BUCKEYE RD PHOENIX, AZ 85004**	**UST LUST**	**U003051955 N/A**

LUST:
Facility ID: 0-005738 Leak ID: 2290.01
Date Reported: 05/01/1992 Date Closed: Not reported
Owner ID: 911
Owner: MRS ZEITLIN/MR DALE ZEITLIN
Address: 41 WEST VERNON
PHOENIX, AZ 85003

UST:
Facility ID: 0-005738 Tank ID: 1
Product: Gasoline Tank Status: Remv
Capacity: 1,000 Construction Mat: Bare Steel
Age: Unk Piping Mat: Bare Steel
Piping Type: Gravity Fed
Tank Remed Design: Not reported
Piping Remed Design: Not reported
Owner: MRS ZEITLIN/MR DALE ZEITLIN
Owner Address: 41 WEST VERNON
PHOENIX, AZ 85003

---

20 South 1/8-1/4 Higher	UNIVERSAL ROOFERS INC 1245 S 7TH STREET PHOENIX, AZ 85034	UST LUST	U001625112 N/A

UNIVERSAL ROOFERS INC (Continued) **U001625112**

LUST:

Facility ID: 0-000797
Date Reported: 01/31/1996
Owner ID: 3638
Owner: UNIVERSAL ROOFERS INC
Address: 1245 S 7TH STREET
PHOENIX, AZ 85034
Leak ID: 4215.03
Date Closed: Not reported

Facility ID: 0-000797
Date Reported: 09/18/1995
Owner ID: 3638
Owner: UNIVERSAL ROOFERS INC
Address: 1245 S 7TH STREET
PHOENIX, AZ 85034
Leak ID: 4215.01
Date Closed: Not reported

Facility ID: 0-000797
Date Reported: 09/18/1995
Owner ID: 3638
Owner: UNIVERSAL ROOFERS INC
Address: 1245 S 7TH STREET
PHOENIX, AZ 85034
Leak ID: 4215.02
Date Closed: Not reported

UST:

Facility ID: 0-000797
Product: Gasoline
Capacity: 2,000
Age: 6
Piping Type: Suction -- No Valve
Tank Remed Design: Manual Gauging
Piping Remed Design: Line Tightness
Owner: UNIVERSAL ROOFERS INC
Owner Address: 1245 S 7TH STREET
PHOENIX, AZ 85034
Tank ID: 1
Tank Status: Curr
Construction Mat: Composite
Piping Mat: Galvanized Steel

Facility ID: 0-000797
Product: Gasoline
Capacity: 2,000
Age: 7
Piping Type: Suction -- No Valve
Tank Remed Design: Manual Gauging
Piping Remed Design: Line Tightness
Owner: UNIVERSAL ROOFERS INC
Owner Address: 1245 S 7TH STREET
PHOENIX, AZ 85034
Tank ID: 2
Tank Status: Curr
Construction Mat: Composite
Piping Mat: Galvanized Steel

Facility ID: 0-000797
Product: Diesel
Capacity: 4,000
Age: 7
Piping Type: Suction -- No Valve
Tank Remed Design: Manual Gauging
Piping Remed Design: Line Tightness
Owner: UNIVERSAL ROOFERS INC
Owner Address: 1245 S 7TH STREET
PHOENIX, AZ 85034
Tank ID: 3
Tank Status: Curr
Construction Mat: Composite
Piping Mat: Galvanized Steel

UNIVERSAL ROOFERS INC (Continued) **U001625112**

Facility ID: 0-000797
Product: Gasoline
Capacity: 2,000
Age: 16
Piping Type: Not reported
Tank Remed Design: Not reported
Piping Remed Design: Not reported
Owner: UNIVERSAL ROOFERS INC
Owner Address: 1245 S 7TH STREET
PHOENIX, AZ 85034
Tank ID: 4
Tank Status: Remv
Construction Mat: Bare Steel
Piping Mat: Unknown

Facility ID: 0-000797
Product: Diesel
Capacity: 1,000
Age: 16
Piping Type: Not reported
Tank Remed Design: Not reported
Piping Remed Design: Not reported
Owner: UNIVERSAL ROOFERS INC
Owner Address: 1245 S 7TH STREET
PHOENIX, AZ 85034
Tank ID: 5
Tank Status: Remv
Construction Mat: Bare Steel
Piping Mat: Unknown

Facility ID: 0-000797
Product: Diesel
Capacity: 2,000
Age: 16
Piping Type: Not reported
Tank Remed Design: Not reported
Piping Remed Design: Not reported
Owner: UNIVERSAL ROOFERS INC
Owner Address: 1245 S 7TH STREET
PHOENIX, AZ 85034
Tank ID: 6
Tank Status: Remv
Construction Mat: Bare Steel
Piping Mat: Unknown

Facility ID: 0-000797
Product: Gasoline
Capacity: 2,000
Age: 26
Piping Type: Not reported
Tank Remed Design: Not reported
Piping Remed Design: Not reported
Owner: UNIVERSAL ROOFERS INC
Owner Address: 1245 S 7TH STREET
PHOENIX, AZ 85034
Tank ID: 7
Tank Status: Remv
Construction Mat: Bare Steel
Piping Mat: Unknown

E21 | RALPH HAYS | UST | U001628549
SE | 811 E BUCKEYE RD | N/A
1/8-1/4 | PHOENIX, AZ 85034
Higher

RALPH HAYS (Continued) **U001628549**

UST:

Facility ID:	0-007665	Tank ID:	1
Product:	Gasoline	Tank Status:	Remv
Capacity:	1,000	Construction Mat:	Bare Steel
Age:	Unk	Piping Mat:	Bare Steel
Piping Type:	Suction -- Valve		
Tank Remed Design:	Not reported		
Piping Remed Design:	Not reported		
Owner:	RALPH HAYS		
Owner Address:	2550 W POPPY TUCSON, AZ 85705		

---

22 WSW 1/8-1/4 Higher | **HURLEY TRUCKING CO INC**
1001 S 4TH ST
PHOENIX, AZ 85004 | **RCRIS-SQG FINDS UST LUST** | **1000283223 AZD980638217**

RCRIS:

Owner: NOT REQUIRED
(415) 555-1212

Contact: ENVIRONMENTAL MANAGER
(602) 258-7188

Classification: Hazardous Waste Transporter

Waste	Quantity
D002	0.000 (N)

(P) = Pounds , (K) = Kilograms , (M) = Metric Tons , (T) = Tons , (N) = Not Reported

Used Oil Recyc: No

Violation Status: No violations found

LUST:

Facility ID:	0-002552	Leak ID:	2410.01
Date Reported:	07/31/1992	Date Closed:	Not reported
Owner ID:	1762		
Owner:	HURLEY TRUCKING CO INC		
Address:	1001 S 4TH STREET PHOENIX, AZ 85004		

Facility ID:	0-002552	Leak ID:	2410.02
Date Reported:	05/11/1995	Date Closed:	05/21/1996
Owner ID:	1762		
Owner:	HURLEY TRUCKING CO INC		
Address:	1001 S 4TH STREET PHOENIX, AZ 85004		

HURLEY TRUCKING CO INC (Continued) **1000283223**

UST:

Facility ID: 0-002552
Product: Diesel
Capacity: 10,000
Age: 13
Piping Type: Pressure
Tank Remed Design: Auto. Gauging
Piping Remed Design: Leak Detector
Owner: HURLEY TRUCKING CO INC
Owner Address: 1001 S 4TH STREET
PHOENIX, AZ 85004
Tank ID: 1
Tank Status: Curr
Construction Mat: Bare Steel
Piping Mat: Galvanized Steel

Facility ID: 0-002552
Product: Diesel
Capacity: 10,000
Age: 13
Piping Type: Pressure
Tank Remed Design: Auto. Gauging
Piping Remed Design: Leak Detector
Owner: HURLEY TRUCKING CO INC
Owner Address: 1001 S 4TH STREET
PHOENIX, AZ 85004
Tank ID: 2
Tank Status: Curr
Construction Mat: Bare Steel
Piping Mat: Galvanized Steel

Facility ID: 0-002552
Product: Gasoline
Capacity: 10,000
Age: 13
Piping Type: Pressure
Tank Remed Design: Auto. Gauging
Piping Remed Design: Leak Detector
Owner: HURLEY TRUCKING CO INC
Owner Address: 1001 S 4TH STREET
PHOENIX, AZ 85004
Tank ID: 3
Tank Status: Curr
Construction Mat: Bare Steel
Piping Mat: Galvanized Steel

Facility ID: 0-002552
Product: Gasoline
Capacity: 10,000
Age: 13
Piping Type: Pressure
Tank Remed Design: Manual Gauging
Piping Remed Design: Leak Detector
Owner: HURLEY TRUCKING CO INC
Owner Address: 1001 S 4TH STREET
PHOENIX, AZ 85004
Tank ID: 4
Tank Status: Curr
Construction Mat: Bare Steel
Piping Mat: Galvanized Steel

Facility ID: 0-002552
Product: Used Oil
Capacity: 1,000
Age: 13
Piping Type: Not reported
Tank Remed Design: Manual Gauging
Piping Remed Design: Not reported
Owner: HURLEY TRUCKING CO INC
Owner Address: 1001 S 4TH STREET
PHOENIX, AZ 85004
Tank ID: 5
Tank Status: Curr
Construction Mat: Bare Steel
Piping Mat: Galvanized Steel

Map ID Direction Distance Elevation	Site	Database(s)	EDR ID Number EPA ID Number
F23 SW 1/8-1/4 Higher	NATIONAL METALS CO PHX 443 E BUCKEYE RD PHOENIX, AZ 85005	RCRIS-SQG	1000260450 AZD980696066

Used Oil Recyc: No

Violation Status: Violations exist

There are 1 compliance/violation record(s) reported at this site:

Evaluation	Area of Violation	Date of Compliance
Compliance Evaluation Inspection (CEI)	Generator-All Requirements	06/30/1987

F24 SW 1/8-1/4 Higher	EAST WASHINGTON AREA FLUFF 443 E BUCKEYE RD PHOENIX, AZ 85004	SHWS Az Wqarf	S101860987 N/A

SHWS:

Facility ID:	1390	EPA ID:	Not reported
File location:	WQARF		

25 SE 1/8-1/4 Higher	HAYS ROOFING & SUPPLY INC 1217 S 8TH ST PHOENIX, AZ 85034	UST	U003091290 N/A

UST:

Facility ID:	0-002451	Tank ID:	1
Product:	Gasoline	Tank Status:	Remv
Capacity:	2,000	Construction Mat:	Bare Steel
Age:	24	Piping Mat:	Unknown
Piping Type:	Not reported		
Tank Remed Design:	Not reported		
Piping Remed Design:	Not reported		
Owner:	RALPH HAYS		
Owner Address:	2550 W POPPY TUCSON, AZ 85705		

Facility ID:	0-002451	Tank ID:	2
Product:	Gasoline	Tank Status:	Remv
Capacity:	1,000	Construction Mat:	Bare Steel
Age:	24	Piping Mat:	Unknown
Piping Type:	Not reported		
Tank Remed Design:	Not reported		
Piping Remed Design:	Not reported		
Owner:	RALPH HAYS		
Owner Address:	2550 W POPPY TUCSON, AZ 85705		

26 East 1/8-1/4 Higher	PETROLEUM RECYCLING PROD INC 725 E HADLEY PHOENIX, AZ 85007	RCRIS-SQG FINDS	1000367254 AZD014281448

PETROLEUM RECYCLING PROD INC (Continued) **1000367254**

RCRIS:
Owner: PETROLEUM RECYCLING PROD INC
(415) 555-1212

Contact: ENVIRONMENTAL MANAGER
(602) 992-4307

Classification: Hazardous Waste Transporter

Waste	Quantity
D001	0.000 (N)

(P) = Pounds , (K) = Kilograms , (M) = Metric Tons , (T) = Tons , (N) = Not Reported

Used Oil Recyc: No

Violation Status: No violations found

G27 North 1/8-1/4 Higher | **CAPITOL ENGINEERING COMPANY**
724 E SOUTHERN PACIFIC DR
PHOENIX, AZ 85034 | **UST** | **U000737430**
SHWS | **N/A**

SHWS:
Facility ID: 796 EPA ID: Not reported
File location: WQARF

UST:
Facility ID: 0-006105 Tank ID: 1
Product: Gasoline Tank Status: Remv
Capacity: 250 Construction Mat: Bare Steel
Age: 27 Piping Mat: Galvanized Steel
Piping Type: Not reported
Tank Remed Design: Not reported
Piping Remed Design: Not reported
Owner: CAPITOL ENGINEERING COMPANY
Owner Address: 724 E SOUTHERN PACIFIC DRIVE
PHOENIX, AZ 85034

G28 North 1/8-1/4 Higher | **GOVERNMENT INNOVATORS**
734 E SOUTHERN PACIFIC DR
PHOENIX, AZ 85034 | **RCRIS-SQG** | **1000217121**
FINDS | **AZD981673544**

RCRIS:
Owner: GOVERNMENT INNOVATORS
(415) 555-1212

Contact: ENVIRONMENTAL MANAGER
(602) 252-6031

Classification: Conditionally Exempt Small Quantity Generator

Waste	Quantity	Waste	Quantity
D001	0.000 (N)	D002	0.000 (N)
F001	0.000 (N)	F002	0.000 (N)
F003	0.000 (N)	F004	0.000 (N)
F005	0.000 (N)		

(P) = Pounds , (K) = Kilograms , (M) = Metric Tons , (T) = Tons , (N) = Not Reported

Used Oil Recyc: No

Violation Status: Violations exist

Map ID Direction Distance Elevation	Site	Database(s)	EDR ID Number EPA ID Number

GOVERNMENT INNOVATORS (Continued) **1000217121**

There are 2 compliance/violation record(s) reported at this site:

Evaluation	Area of Violation	Date of Compliance
Compliance Schedule Evaluation (CSE)	Generator-All Requirements	05/19/1987
Compliance Evaluation Inspection (CEI)	Generator-All Requirements	06/10/1986

G29 North 1/8-1/4 Higher

RAIL SPUR PESTICIDE GROUP
734 E. SOUTHERN PACIFIC DR.
PHOENIX, AZ 85034

SHWS **S101570345**
N/A

SHWS:
Facility ID: 832 EPA ID: Not reported
File location: WQARF

G30 North 1/8-1/4 Higher

CHEMONICS LAB DIV MCKENZIE
734 E SOUTHERN PACIFIC
PHOENIX, AZ 85034

FINDS **1000301542**
CERC-NFRAP **AZD057907883**
SHWS

CERCLIS-NFRAP Classification Data:
Site Incident Category: Not reported
Federal Facility: NO
Ownership Status: UNKNOWN
NPL Status: NOT ON NPL
EPA Notes: Not reported
CERCLIS-NFRAP Assessment History:
Assessment: DISCOVERY Completed: 06/01/87
Assessment: PRELIMINARY ASSESSMENT Completed: 05/25/91
Assessment: SCREENING SITE INSPECTION Completed: 09/24/93

SHWS:
Facility ID: 376 EPA ID: AZD057907883
File location: PA/SI

G31 North 1/8-1/4 Higher

GOVERNMENT INNOVATOR INC
734 E SOUTHERN PACIFIC DR
PHOENIX, AZ 85034

RCRIS-SQG **1000217120**
FINDS **AZD072460819**

Used Oil Recyc: No

Violation Status: No violations found

G32 North 1/8-1/4 Higher

SOUTHERN PACIFIC TRANSPORTATION
733 E SOUTHERN PACIFIC DR
PHOENIX, AZ 85034

UST **U001001276**
N/A

SOUTHERN PACIFIC TRANSPORTATION (Continued) **U001001276**

UST:

Facility ID:	0-006775	Tank ID:	1
Product:	Diesel	Tank Status:	Remv
Capacity:	10,000	Construction Mat:	Bare Steel
Age:	26	Piping Mat:	Unknown
Piping Type:	Not reported		
Tank Remed Design:	Not reported		
Piping Remed Design:	Not reported		
Owner:	SOUTHERN PACIFIC TRANSPORTATION		
Owner Address:	ONE MARKET STREET SAN FRANCISCO, CA 94105		

Facility ID:	0-006775	Tank ID:	2
Product:	Diesel	Tank Status:	Remv
Capacity:	10,000	Construction Mat:	Bare Steel
Age:	26	Piping Mat:	Unknown
Piping Type:	Not reported		
Tank Remed Design:	Not reported		
Piping Remed Design:	Not reported		
Owner:	SOUTHERN PACIFIC TRANSPORTATION		
Owner Address:	ONE MARKET STREET SAN FRANCISCO, CA 94105		

Facility ID:	0-006775	Tank ID:	3
Product:	Gasoline	Tank Status:	Remv
Capacity:	2,000	Construction Mat:	Bare Steel
Age:	26	Piping Mat:	Unknown
Piping Type:	Not reported		
Tank Remed Design:	Not reported		
Piping Remed Design:	Not reported		
Owner:	SOUTHERN PACIFIC TRANSPORTATION		
Owner Address:	ONE MARKET STREET SAN FRANCISCO, CA 94105		

H33 **BAGDAD PLASTICS CO.** **SHWS** **S101570032**
NW **625 S 5TH ST** **LUST** **N/A**
1/8-1/4 **PHOENIX, AZ 85004**
Higher

SHWS:

Facility ID:	344	EPA ID:	AZD982006785
File location:	PA/SI		

LUST:

Facility ID:	0-005544	Leak ID:	4566.02
Date Reported:	07/26/1996	Date Closed:	Not reported
Owner ID:	5683		
Owner:	WESTERN CHEMICAL CORP.		
Address:	POST OFFICE BOX 1645 RANCHO CORDOVA, CA 95741		

Facility ID:	0-005544	Leak ID:	4566.01
Date Reported:	07/26/1996	Date Closed:	Not reported
Owner ID:	5683		
Owner:	WESTERN CHEMICAL CORP.		
Address:	POST OFFICE BOX 1645 RANCHO CORDOVA, CA 95741		

Map ID Direction Distance Elevation	Site	Database(s)	EDR ID Number EPA ID Number

BAGDAD PLASTICS CO. (Continued) **S101570032**

Facility ID:	0-005544	Leak ID:	4566.03
Date Reported:	07/26/1996	Date Closed:	Not reported
Owner ID:	5683		
Owner:	WESTERN CHEMICAL CORP.		
Address:	POST OFFICE BOX 1645 RANCHO CORDOVA, CA 95741		

H34 NW 1/8-1/4 Higher — **VIKA CORPORATION**, **625 S 5TH ST**, **PHOENIX, AZ 85004** — **UST** — **U001155223**, **N/A**

UST:

Facility ID:	0-005544	Tank ID:	1
Product:	Gasoline	Tank Status:	Perm
Capacity:	20,000	Construction Mat:	Bare Steel
Age:	21	Piping Mat:	Unknown
Piping Type:	Not reported		
Tank Remed Design:	Not reported		
Piping Remed Design:	Not reported		
Owner:	MAURICE & MARGARET HOFFMAN		
Owner Address:	625 S 5TH ST PHOENIX, AZ 85004		

---

35 WNW 1/8-1/4 Higher — **DISTRICT SERVICES OFFICE**, **415 E GRANT ST**, **PHOENIX, AZ 85004** — **UST**, **LUST** — **U003050948**, **N/A**

LUST:

Facility ID:	0-008403	Leak ID:	3584.01
Date Reported:	06/28/1994	Date Closed:	03/20/1995
Owner ID:	2672		
Owner:	PHOENIX UNION HIGH SCHOOL DIST		
Address:	4502 N CENTRAL AVE PHOENIX, AZ 85012		

UST:

Facility ID:	0-008403	Tank ID:	1
Product:	Used Oil	Tank Status:	Remv
Capacity:	350	Construction Mat:	Not Marked
Age:	31	Piping Mat:	Not Marked
Piping Type:	Not Marked		
Tank Remed Design:	Not reported		
Piping Remed Design:	Not reported		
Owner:	PHOENIX UNION HIGH SCHOOL DIST		
Owner Address:	4502 N CENTRAL AVE PHOENIX, AZ 85012		

---

36 NNE 1/4-1/2 Higher — **CANYON INDUSTRIES**, **234 E SOUTHERN PACIFIC DR.**, **PHOENIX, AZ 85034** — **FINDS**, **CERC-NFRAP**, **SHWS** — **1000441897**, **AZD089995856**

CANYON INDUSTRIES (Continued) **1000441897**

CERCLIS-NFRAP Classification Data:
Site Incident Category: Not reported
Ownership Status: UNKNOWN
EPA Notes: Not reported
Federal Facility: NO
NPL Status: NOT ON NPL

CERCLIS-NFRAP Assessment History:
Assessment: DISCOVERY — Completed: 06/01/87
Assessment: PRELIMINARY ASSESSMENT — Completed: 10/01/88

SHWS:
Facility ID: 360
File location: PA/SI
EPA ID: AZD089995856

---

37 South 1/4-1/2 Higher

COMMERICAL PIPE INC — UST / LUST — **U001628481** / **N/A**
1429 S 7TH ST
PHOENIX, AZ 85034

LUST:
Facility ID: 0-007456
Date Reported: 12/08/1992
Owner ID: 2638
Owner: UNITED CULCO
Address: P.O. BOX 350
MASON, MI 48854
Leak ID: 2629.01
Date Closed: 08/19/1993

UST:
Facility ID: 0-007456
Product: Gasoline
Capacity: 1,000
Age: Unk
Piping Type: Suction -- Valve
Tank Remed Design: Not reported
Piping Remed Design: Not reported
Owner: UNITED CULCO
Owner Address: PO BOX 350
MASON, MI 48854
Tank ID: 1
Tank Status: Remv
Construction Mat: Bare Steel
Piping Mat: Bare Steel

Facility ID: 0-007456
Product: Gasoline
Capacity: 1,000
Age: Unk
Piping Type: Suction -- Valve
Tank Remed Design: Not reported
Piping Remed Design: Not reported
Owner: UNITED CULCO
Owner Address: PO BOX 350
MASON, MI 48854
Tank ID: 2
Tank Status: Remv
Construction Mat: Bare Steel
Piping Mat: Bare Steel

COMMERICAL PIPE INC (Continued) **U001628481**

Facility ID:	0-007456	Tank ID:	3
Product:	Gasoline	Tank Status:	Remv
Capacity:	1,000	Construction Mat:	Bare Steel
Age:	Unk	Piping Mat:	Bare Steel
Piping Type:	Suction -- Valve		
Tank Remed Design:	Not reported		
Piping Remed Design:	Not reported		
Owner:	UNITED CULCO		
Owner Address:	PO BOX 350 MASON, MI 48854		

---

38 NNW 1/4-1/2 Higher | **CENTRAL ARIZONA LIGHT AND POWER**
350 SHERIDAN
PHOENIX, AZ 85004 | **Coal Gas** | **G000001214**
N/A

COAL GAS SITE DESCRIPTION:
1946 Site is on the north side of Sheridan, east of N. 3rd Street and west of N.

©Copyright 1993 Real Property Scan, Inc.

---

39 South 1/4-1/2 Higher | **CYPRUS SPECIALTY STEEL CO.**
1500 S 7TH ST
PHOENIX, AZ 85034 | **SHWS** | **S101570306**
N/A

SHWS:

Facility ID:	356	EPA ID:	AZD982007023
File location:	PA/SI		

---

40 ESE 1/4-1/2 Higher | **DALLAS SMITH ENGR CORP**
1102 E TONTO ST
PHOENIX, AZ 85034 | **UST**
LUST | **U001155863**
N/A

LUST:

Facility ID:	0-004559	Leak ID:	0327.01
Date Reported:	08/04/1987	Date Closed:	Not reported
Owner ID:	1088		
Owner:	DALLAS SMITH ENGR CORP		
Address:	1102 E TONTO ST PHOENIX, AZ 85034		

UST:

Facility ID:	0-004559	Tank ID:	1
Product:	Diesel	Tank Status:	Remv
Capacity:	10,000	Construction Mat:	Bare Steel
Age:	15	Piping Mat:	Galvanized Steel
Piping Type:	Not reported		
Tank Remed Design:	Not reported		
Piping Remed Design:	Not reported		
Owner:	DALLAS SMITH ENGR CORP		
Owner Address:	1102 E TONTO ST PHOENIX, AZ 85034		

Map ID Direction Distance Elevation	Site	Database(s)	EDR ID Number EPA ID Number
41 North 1/4-1/2 Higher	**STERN PRODUCE CO INC** **601 E JACKSON ST** **PHOENIX, AZ 85004**	**UST** **LUST**	**U001627146** **N/A**

LUST:

Facility ID:	0-004748	Leak ID:	4230.01
Date Reported:	10/06/1995	Date Closed:	Not reported
Owner ID:	3324		
Owner:	STERN PRODUCE		
Address:	4317 N 43RD AVE PHOENIX, AZ 85031		

UST:

Facility ID:	0-004748	Tank ID:	1
Product:	Gasoline	Tank Status:	Curr
Capacity:	5,000	Construction Mat:	Bare Steel
Age:	20	Piping Mat:	Galvanized Steel
Piping Type:	Not reported		
Tank Remed Design:	Tightness Testing		
Piping Remed Design:	Line Tightness		
Owner:	STERN PRODUCE CO INC		
Owner Address:	601 E JACKSON PHOENIX, AZ 85004		

Facility ID:	0-004748	Tank ID:	2
Product:	UNKNOWN	Tank Status:	Perm
Capacity:	Unknown	Construction Mat:	Bare Steel
Age:	Unk	Piping Mat:	Galvanized Steel
Piping Type:	Not reported		
Tank Remed Design:	Tightness Testing		
Piping Remed Design:	Line Tightness		
Owner:	STERN PRODUCE CO INC		
Owner Address:	601 E JACKSON PHOENIX, AZ 85004		

---

42 WSW 1/4-1/2 Higher	**A J BAYLESS MARKETS INC** **111 E BUCKEYE ROAD** **PHOENIX, AZ 85004**	**UST** **LUST**	**U001625036** **N/A**

LUST:

Facility ID:	0-000651	Leak ID:	0557.01
Date Reported:	10/26/1988	Date Closed:	Not reported
Owner ID:	11		
Owner:	A J BAYLESS MARKETS INC		
Address:	P.O. BOX 9215 PHOENIX, AZ 85068		

A J BAYLESS MARKETS INC (Continued) **U001625036**

UST:

Facility ID:	0-000651	Tank ID:	1
Product:	Diesel	Tank Status:	Curr
Capacity:	10,000	Construction Mat:	Bare Steel
Age:	15	Piping Mat:	Unknown
Piping Type:	Not reported		
Tank Remed Design:	Not reported		
Piping Remed Design:	Not reported		
Owner:	A J BAYLESS MARKETS INC		
Owner Address:	PO BOX 9215 PHOENIX, AZ 85068		

Facility ID:	0-000651	Tank ID:	2
Product:	Diesel	Tank Status:	Curr
Capacity:	10,000	Construction Mat:	Bare Steel
Age:	15	Piping Mat:	Unknown
Piping Type:	Not reported		
Tank Remed Design:	Not reported		
Piping Remed Design:	Not reported		
Owner:	A J BAYLESS MARKETS INC		
Owner Address:	PO BOX 9215 PHOENIX, AZ 85068		

Facility ID:	0-000651	Tank ID:	3
Product:	Diesel	Tank Status:	Curr
Capacity:	10,000	Construction Mat:	Bare Steel
Age:	15	Piping Mat:	Unknown
Piping Type:	Not reported		
Tank Remed Design:	Not reported		
Piping Remed Design:	Not reported		
Owner:	A J BAYLESS MARKETS INC		
Owner Address:	PO BOX 9215 PHOENIX, AZ 85068		

Facility ID:	0-000651	Tank ID:	4
Product:	Gasoline	Tank Status:	Curr
Capacity:	6,000	Construction Mat:	Bare Steel
Age:	23	Piping Mat:	Unknown
Piping Type:	Not reported		
Tank Remed Design:	Not reported		
Piping Remed Design:	Not reported		
Owner:	A J BAYLESS MARKETS INC		
Owner Address:	PO BOX 9215 PHOENIX, AZ 85068		

---

43 South 1/4-1/2 Higher

TRAILSIDE GENERAL STORE UST **U001627643**
1644 S 7TH ST LUST **N/A**
PHOENIX, AZ 85034

LUST:

Facility ID:	0-005713	Leak ID:	1159.01
Date Reported:	03/12/1990	Date Closed:	Not reported
Owner ID:	3930		
Owner:	TRAILSIDE GENERAL STORE		
Address:	P.O. BOX 667 CENTERVILLE, UT 84014		

TRAILSIDE GENERAL STORE (Continued) **U001627643**

UST:

Facility ID:	0-005713	Tank ID:	1
Product:	Gasoline	Tank Status:	Curr
Capacity:	12,000	Construction Mat:	Bare Steel
Age:	19	Piping Mat:	Galvanized Steel
Piping Type:	Pressure		
Tank Remed Design:	Tightness Testing		
Piping Remed Design:	Vapor Monitorin		
Owner:	TRAILSIDE GENERAL STORE		
Owner Address:	PO BOX 667 CENTERVILLE, UT 84014		

Facility ID:	0-005713	Tank ID:	2
Product:	Gasoline	Tank Status:	Curr
Capacity:	12,000	Construction Mat:	Bare Steel
Age:	19	Piping Mat:	Galvanized Steel
Piping Type:	Pressure		
Tank Remed Design:	Tightness Testing		
Piping Remed Design:	Vapor Monitorin		
Owner:	TRAILSIDE GENERAL STORE		
Owner Address:	PO BOX 667 CENTERVILLE, UT 84014		

Facility ID:	0-005713	Tank ID:	3
Product:	Gasoline	Tank Status:	Curr
Capacity:	12,000	Construction Mat:	Bare Steel
Age:	19	Piping Mat:	Galvanized Steel
Piping Type:	Pressure		
Tank Remed Design:	Tightness Testing		
Piping Remed Design:	Vapor Monitorin		
Owner:	TRAILSIDE GENERAL STORE		
Owner Address:	PO BOX 667 CENTERVILLE, UT 84014		

---

44 NNE 1/4-1/2 Higher | **CORBINS SERVICE ELECTRIC**
901 E JACKSON
PHOENIX, AZ 85034 | **UST** **U001625553**
LUST **N/A**

LUST:

Facility ID:	0-001657	Leak ID:	2013.01
Date Reported:	10/18/1991	Date Closed:	10/21/1994
Owner ID:	1020		
Owner:	CORBINS SERVICE ELECTRIC		
Address:	901 E JACKSON PHOENIX, AZ 85034		

CORBINS SERVICE ELECTRIC (Continued) **U001625553**

UST:

Facility ID:	0-001657	Tank ID:	1
Product:	Gasoline	Tank Status:	Remv
Capacity:	4,000	Construction Mat:	Bare Steel
Age:	16	Piping Mat:	Galvanized Steel
Piping Type:	Not reported		
Tank Remed Design:	Not reported		
Piping Remed Design:	Not reported		
Owner:	CORBINS SERVICE ELECTRIC		
Owner Address:	901 E JACKSON PHOENIX, AZ 85034		

Facility ID:	0-001657	Tank ID:	2
Product:	Gasoline	Tank Status:	Remv
Capacity:	750	Construction Mat:	Bare Steel
Age:	16	Piping Mat:	Galvanized Steel
Piping Type:	Not reported		
Tank Remed Design:	Not reported		
Piping Remed Design:	Not reported		
Owner:	CORBINS SERVICE ELECTRIC		
Owner Address:	901 E JACKSON PHOENIX, AZ 85034		

---

45 North 1/4-1/2 Higher

CHARLIE CASE TIRE COMPANY UST U003052285
234 S 7TH ST LUST N/A
PHOENIX, AZ 85034

LUST:

Facility ID:	0-008712	Leak ID:	4218.01
Date Reported:	09/22/1995	Date Closed:	08/05/1996
Owner ID:	5378		
Owner:	CHARLIE CASE TIRE COMPANY		
Address:	234 SOUTH 7TH STREET PHOENIX, AZ 85034		

UST:

Facility ID:	0-008712	Tank ID:	1
Product:	Used Oil	Tank Status:	Curr
Capacity:	550	Construction Mat:	Bare Steel
Age:	Unk	Piping Mat:	Bare Steel
Piping Type:	Gravity Fed		
Tank Remed Design:	Not reported		
Piping Remed Design:	Not reported		
Owner:	CHARLIE CASE TIRE COMPANY		
Owner Address:	234 S 7TH ST PHOENIX, AZ 85034		

---

46 WNW 1/2-1 Higher

APS SHWS S101570021
501 S 1ST ST N/A
PHOENIX, AZ 85003

SHWS:

Facility ID:	480	EPA ID:	Not reported
File location:	WQARF		

Map ID Direction Distance Elevation	Site	Database(s)	EDR ID Number EPA ID Number
47 WNW 1/2-1 Higher	ARIZONA PLATING AND ANODIZING 618 S CENTRAL AVE PHOENIX, AZ 85004	SHWS	S101570029 N/A

SHWS:
Facility ID: 205 EPA ID: AZD009002908
File location: PA/SI

I48 WSW 1/2-1 Higher	INTERSTATE PARTS & MACHINE 1321 S CENTRAL AVE PHOENIX, AZ 85003	SHWS	S101570025 N/A

SHWS:
Facility ID: 544 EPA ID: Not reported
File location: WQARF

49 East 1/2-1 Higher	BS&W ENERGY 725 S 12TH PL PHOENIX, AZ 85043	SHWS	S101570390 N/A

SHWS:
Facility ID: 492 EPA ID: Not reported
File location: WQARF

I50 WSW 1/2-1 Higher	ARIZONA PUMP AND SUPPLY CO. 1308 S CENTRAL AVE PHOENIX, AZ 85004	SHWS	S101570030 N/A

SHWS:
Facility ID: 483 EPA ID: Not reported
File location: WQARF

51 SSW 1/2-1 Higher	LINCOLN LASER CO. 234 E MOHAVE ST PHOENIX, AZ 85004	SHWS	S101570037 N/A

SHWS:
Facility ID: 872 EPA ID: AZD078994126
File location: PA/SI

J52 SW 1/2-1 Higher	CENTRAL TIRE 1500 S CENTRAL AVE PHOENIX, AZ 85003	SHWS	S101570024 N/A

SHWS:
Facility ID: 501 EPA ID: Not reported
File location: WQARF

53 WNW 1/2-1 Higher	MARYATT LAUNDRY 720 W BUCHANAN ST PHOENIX, AZ 85007	SHWS	S101570050 N/A

Map ID Direction Distance Elevation	Site	Database(s)	EDR ID Number EPA ID Number
	MARYATT LAUNDRY (Continued)		**S101570050**

SHWS:
Facility ID: 913 EPA ID: Not reported
File location: WQARF

J54 SW 1/2-1 Higher	**AXLE TRANSMISSION OF ARIZONA, INC** **1401 S CENTRAL AVE** **PHOENIX, AZ 85004**	SHWS	S101570031 N/A

SHWS:
Facility ID: 491 EPA ID: Not reported
File location: WQARF

---

55 WNW 1/2-1 Higher	**PHOENIX ELECTRIC LIGHT AND FUEL** **401-423 S. 2ND AV.** **PHOENIX, AZ 85003**	Coal Gas	G000001213 N/A

COAL GAS SITE DESCRIPTION:
1901 Site is on the east side of S. 1st Ave. north of Buchanan, and east of S. e is bordered on the north by railroad lines. 1911, site called Pacific Gas and called Central Arizona Light and Power.

©Copyright 1993 Real Property Scan, Inc.

---

56 SW 1/2-1 Higher	**MISSION UNIFORM SERVICE** **1606 S 1ST AVE** **PHOENIX, AZ 85003**	UST SHWS	U001626337 N/A

SHWS:
Facility ID: 560 EPA ID: Not reported
File location: WQARF

UST:
Facility ID: 0-003180 Tank ID: 1
Product: Gasoline Tank Status: Remv
Capacity: 10,000 Construction Mat: Bare Steel
Age: 13 Piping Mat: Unknown
Piping Type: Not reported
Tank Remed Design: Not reported
Piping Remed Design: Not reported
Owner: MISSION UNIFORM SERVICE
Owner Address: 1606 S FIRST AVE
PHOENIX, AZ 85003

---

57 ENE 1/2-1 Higher	TIERNAY MFG CO 1301 E JACKSON ST A PHOENIX, AZ 85034	RCRIS-SQG FINDS SHWS	1000365240 AZD063276000

TIERNAY MFG CO (Continued) **1000365240**

RCRIS:
Owner: TIERNAY METALS INC
(415) 555-1212

Contact: ENVIRONMENTAL MANAGER
(602) 257-8505

Classification: Small Quantity Generator

Waste	Quantity
D001	0.000 (N)

(P) = Pounds , (K) = Kilograms , (M) = Metric Tons , (T) = Tons . (N) = Not Reported

Used Oil Recyc: No

Violation Status: Violations exist

There are 7 compliance/violation record(s) reported at this site:

Evaluation	Area of Violation	Date of Compliance
Compliance Groundwater Monitoring Evaluation (CME)	Generator-All Requirements	01/15/1988
	TSD-Groundwater Monitoring Requirements	01/15/1988
Sampling Inspection	Generator-All Requirements	05/27/1987
Other Evaluation	Generator-All Requirements	05/27/1987
Compliance Evaluation Inspection (CEI)	Generator-All Requirements	06/05/1986
Compliance Evaluation Inspection (CEI)	Generator-All Requirements	06/05/1986
Compliance Schedule Evaluation (CSE)	Formal Enforcement Agreement	09/18/1984
	Generator-All Requirements	09/18/1984
Compliance Evaluation Inspection (CEI)	Generator-All Requirements	01/23/1984

SHWS:
Facility ID: 798 EPA ID: Not reported
File location: WQARF

---

58 SW 1/2-1 Higher

QUALITY PRINTED CIRCUITS CORP
1831 S CENTRAL
PHOENIX, AZ 85004

RCRIS-SQG 1000287325
FINDS AZD074440470
CERC-NFRAP
SHWS

CERCLIS-NFRAP Classification Data:
Site Incident Category: Not reported
Ownership Status: UNKNOWN
EPA Notes: Not reported
Federal Facility: NO
NPL Status: NOT ON NPL

CERCLIS-NFRAP Assessment History:

Assessment:	DISCOVERY	Completed:	11/01/19
Assessment:	PRELIMINARY ASSESSMENT	Completed:	09/01/19
Assessment:	SCREENING SITE INSPECTION	Completed:	09/01/19

QUALITY PRINTED CIRCUITS CORP (Continued) **1000287325**

RCRIS:
Owner: STEVE DUTTON
(602) 252-4689

Contact: ENVIRONMENTAL MANAGER
(602) 257-8809

Classification: Small Quantity Generator

Waste	Quantity	Waste	Quantity
D000	0.000 (N)	D002	0.000 (N)
D004	0.000 (N)	D008	0.000 (N)
F006	0.000 (N)		

(P) = Pounds , (K) = Kilograms , (M) = Metric Tons , (T) = Tons , (N) = Not Reported

Used Oil Recyc: No

Violation Status: Violations exist

There are 1 compliance/violation record(s) reported at this site:

Evaluation	Area of Violation	Date of Compliance
Compliance Evaluation Inspection (CEI)	Generator-All Requirements	08/24/1990

SHWS:
Facility ID: 256 EPA ID: AZD074440470
File location: PA/SI

---

59 East 1/2-1 Higher
PRECISIONS GRINDING
1411 E. HADLEY
PHOENIX, AZ 85034
SHWS **S101570344** **N/A**

SHWS:
Facility ID: 578 EPA ID: Not reported
File location: WQARF

---

60 East 1/2-1 Higher
FMC CORP PESTICIDE FORMULATING PLT
1450 E BUCKEYE RD
PHOENIX, AZ 85034
SHWS **S101570311** **N/A**

SHWS:
Facility ID: 89 EPA ID: AZD980637664
File location: PA/SI

---

61 South 1/2-1 Same
AMERON PIPE DIV SOUTHWEST
2325 S 7TH ST
PHOENIX, AZ 85034
RCRIS-SQG FINDS UST SHWS LUST Az WWFAC
1000367599 **AZD058789272**

Used Oil Recyc: No

Violation Status: No violations found

AMERON PIPE DIV SOUTHWEST (Continued) **1000367599**

FINDS:
Other Pertinent Environmental Activity Identified at Site:
- Facility is monitored or permitted for air emissions under the Clean Air Act (under AFS/AIRS)

SHWS:

Facility ID:	466	EPA ID:	Not reported
File location:	WQARF		

LUST:

Facility ID:	0-000130	Leak ID:	1556.01
Date Reported:	12/03/1990	Date Closed:	Not reported
Owner ID:	121		
Owner:	AMERON		
Address:	P.O. BOX 20505 PHOENIX, AZ 85036		

UST:

Facility ID:	0-000130	Tank ID:	1
Product:	Diesel	Tank Status:	Remv
Capacity:	10,000	Construction Mat:	Unknown
Age:	34	Piping Mat:	Unknown
Piping Type:	Not reported		
Tank Remed Design:	Not reported		
Piping Remed Design:	Not reported		
Owner:	AMERON		
Owner Address:	PO BOX 20505 PHOENIX, AZ 85036		

Facility ID:	0-000130	Tank ID:	2
Product:	Gasoline	Tank Status:	Remv
Capacity:	7,500	Construction Mat:	Unknown
Age:	34	Piping Mat:	Unknown
Piping Type:	Not reported		
Tank Remed Design:	Not reported		
Piping Remed Design:	Not reported		
Owner:	AMERON		
Owner Address:	PO BOX 20505 PHOENIX, AZ 85036		

Facility ID:	0-000130	Tank ID:	3
Product:	Gasoline	Tank Status:	Remv
Capacity:	550	Construction Mat:	Unknown
Age:	34	Piping Mat:	Unknown
Piping Type:	Not reported		
Tank Remed Design:	Not reported		
Piping Remed Design:	Not reported		
Owner:	AMERON		
Owner Address:	PO BOX 20505 PHOENIX, AZ 85036		

AMERON PIPE DIV SOUTHWEST (Continued) **1000367599**

Facility ID: 0-000130
Product: Diesel
Capacity: 5,000
Age: 34
Piping Type: Not reported
Tank Remed Design: Not reported
Piping Remed Design: Not reported
Owner: AMERON
Owner Address: PO BOX 20505
PHOENIX, AZ 85036

Tank ID: 4
Tank Status: Remv
Construction Mat: Unknown
Piping Mat: Unknown

Facility ID: 0-000130
Product: Diesel
Capacity: 5,000
Age: 34
Piping Type: Not reported
Tank Remed Design: Not reported
Piping Remed Design: Not reported
Owner: AMERON
Owner Address: PO BOX 20505
PHOENIX, AZ 85036

Tank ID: 5
Tank Status: Remv
Construction Mat: Unknown
Piping Mat: Unknown

Facility ID: 0-000130
Product: HAZ-NORCRETE
Capacity: 12,000
Age: 19
Piping Type: Not reported
Tank Remed Design: Not reported
Piping Remed Design: Not reported
Owner: AMERON
Owner Address: PO BOX 20505
PHOENIX, AZ 85036

Tank ID: 6
Tank Status: Remv
Construction Mat: Bare Steel
Piping Mat: Unknown

Facility ID: 0-000130
Product: Diesel
Capacity: 12,000
Age: 19
Piping Type: Not reported
Tank Remed Design: Not reported
Piping Remed Design: Not reported
Owner: AMERON
Owner Address: PO BOX 20505
PHOENIX, AZ 85036

Tank ID: 7
Tank Status: Remv
Construction Mat: Bare Steel
Piping Mat: Unknown

62
ENE
1/2-1
Higher

ARVIN INDUSTRIES INC
500 S 15TH ST
PHOENIX, AZ 85034

RCRIS-SQG **1000983377**
UST **AZD008395998**
SHWS

ARVIN INDUSTRIES INC (Continued) **1000983377**

RCRIS:

Owner: ARVIN INDUSTRIES INC
(812) 379-3325

Contact: ENVIRONMENTAL MANAGER
(602) 949-9717

Classification: Small Quantity Generator

Waste	Quantity	Waste	Quantity
D000	0.000 (N)	D040	0.000 (N)
D043	0.000 (N)		

(P) = Pounds , (K) = Kilograms , (M) = Metric Tons , (T) = Tons , (N) = Not Reported

Used Oil Recyc: No

Violation Status: Violations exist

There are 1 compliance/violation record(s) reported at this site:

Evaluation	Area of Violation	Date of Compliance
Compliance Evaluation Inspection (CEI)	Generator-All Requirements	02/18/1988

SHWS:

Facility ID: 355
File location: PA/SI
EPA ID: AZD008395998

UST:

Facility ID: 0-000607
Product: PAINT THINNER
Capacity: 1,000
Age: 35
Piping Type: Not reported
Tank Remed Design: Not reported
Piping Remed Design: Not reported
Owner: ARVIN INDUSTRIES INC
Owner Address: 500 S 15TH ST
PHOENIX, AZ 85034
Tank ID: 1
Tank Status: Remv
Construction Mat: Bare Steel
Piping Mat: Unknown

Facility ID: 0-000607
Product: PAINT THINNER
Capacity: 1,000
Age: 35
Piping Type: Not reported
Tank Remed Design: Not reported
Piping Remed Design: Not reported
Owner: ARVIN INDUSTRIES INC
Owner Address: 500 S 15TH ST
PHOENIX, AZ 85034
Tank ID: 2
Tank Status: Clos
Construction Mat: Bare Steel
Piping Mat: Unknown

ARVIN INDUSTRIES INC (Continued) **1000983377**

Facility ID: 0-000607
Product: Gasoline
Capacity: 500
Age: 33
Piping Type: Not reported
Tank Remed Design: Not reported
Piping Remed Design: Not reported
Owner: ARVIN INDUSTRIES INC
Owner Address: 500 S 15TH ST
PHOENIX, AZ 85034

Tank ID: 3
Tank Status: Remv
Construction Mat: Bare Steel
Piping Mat: Galvanized Steel

Facility ID: 0-000607
Product: Gasoline
Capacity: 1,000
Age: 33
Piping Type: Not reported
Tank Remed Design: Not reported
Piping Remed Design: Not reported
Owner: ARVIN INDUSTRIES INC
Owner Address: 500 S 15TH ST
PHOENIX, AZ 85034

Tank ID: 4
Tank Status: Remv
Construction Mat: Bare Steel
Piping Mat: Galvanized Steel

Facility ID: 0-000607
Product: Gasoline
Capacity: 500
Age: 35
Piping Type: Not reported
Tank Remed Design: Not reported
Piping Remed Design: Not reported
Owner: ARVIN INDUSTRIES INC
Owner Address: 500 S 15TH ST
PHOENIX, AZ 85034

Tank ID: 5
Tank Status: Remv
Construction Mat: Bare Steel
Piping Mat: Galvanized Steel

Facility ID: 0-000607
Product: Gasoline
Capacity: 1,000
Age: 35
Piping Type: Not reported
Tank Remed Design: Not reported
Piping Remed Design: Not reported
Owner: ARVIN INDUSTRIES INC
Owner Address: 500 S 15TH ST
PHOENIX, AZ 85034

Tank ID: 6
Tank Status: Remv
Construction Mat: Bare Steel
Piping Mat: Galvanized Steel

---

63 SSE 1/2-1 Lower

11TH ST LDFL
11TH ST & GIBSON LN
PHOENIX, AZ 85034

FINDS 1000238603
CERC-NFRAP AZD980883433
SHWS

CERCLIS-NFRAP Classification Data:
Site Incident Category: Not reported
Ownership Status: UNKNOWN
EPA Notes: Not reported

Federal Facility: NO
NPL Status: NOT ON NPL

CERCLIS-NFRAP Assessment History:
Assessment: DISCOVERY — Completed: 07/01/84
Assessment: PRELIMINARY ASSESSMENT — Completed: 12/01/87

CERCLIS-NFRAP Alias Name(s):
ELEVENTH ST LDFL

Map ID Direction Distance Elevation	Site	Database(s)	EDR ID Number EPA ID Number
	11TH ST LDFL (Continued)		**1000238603**
	SHWS: Facility ID: 6 EPA ID: AZD980883433 File location: PA/SI		
64 NNW 1/2-1 Higher	**PHOENIX NEWSPAPERS INC.** **120 E VAN BUREN ST** **PHOENIX, AZ 85004**	SHWS	**S101570038** **N/A**
	SHWS: Facility ID: 359 EPA ID: AZD008398539 File location: PA/SI		

GEOCHECK VERSION 2.1 ADDENDUM
FEDERAL DATABASE WELL INFORMATION

Well Closest to Target Property (Northern Quadrant)

BASIC WELL DATA

Site ID:	332700112042901	Distance from TP:	1/2 - 1 Mile
Site Type:	Single well, other than collector or Ranney type		
Year Constructed:	1964	County:	Maricopa
Altitude:	1085.00 ft.	State:	Arizona
Well Depth:	200.00 ft.	Topographic Setting:	Not Reported
Depth to Water Table:	100.00 ft.	Prim. Use of Site:	Not Reported
Date Measured:	Not Reported	Prim. Use of Water:	Not Reported

LITHOLOGIC DATA

Not Reported

WATER LEVEL VARIABILITY

Not Reported

GEOCHECK VERSION 2.1
FEDERAL DATABASE WELL INFORMATION

Well Closest to Target Property (Eastern Quadrant)

BASIC WELL DATA

Site ID:	332647112025101	Distance from TP:	1 - 2 Miles
Site Type:	Single well, other than collector or Ranney type		
Year Constructed:	1947	County:	Maricopa
Altitude:	1090.00 ft.	State:	Arizona
Well Depth:	302.00 ft.	Topographic Setting:	Not Reported
Depth to Water Table:	35.00 ft.	Prim. Use of Site:	Withdrawal of water
Date Measured:	08011947	Prim. Use of Water:	Irrigation

LITHOLOGIC DATA

Not Reported

WATER LEVEL VARIABILITY

Not Reported

GEOCHECK VERSION 2.1
FEDERAL DATABASE WELL INFORMATION

Well Closest to Target Property (Southern Quadrant)

BASIC WELL DATA

Site ID:	332508112023601	Distance from TP:	1 - 2 Miles
Site Type:	Single well, other than collector or Ranney type		
Year Constructed:	1964	County:	Maricopa
Altitude:	1080.00 ft.	State:	Arizona
Well Depth:	230.00 ft.	Topographic Setting:	Flood plain
Depth to Water Table:	77.00 ft.	Prim. Use of Site:	Withdrawal of water
Date Measured:	10271964	Prim. Use of Water:	Industrial

LITHOLOGIC DATA

Not Reported

WATER LEVEL VARIABILITY

Not Reported

GEOCHECK VERSION 2.1
FEDERAL DATABASE WELL INFORMATION

Well Closest to Target Property (Western Quadrant)

BASIC WELL DATA

Site ID:	332655112045301	Distance from TP:	1 - 2 Miles
Site Type:	Single well, other than collector or Ranney type		
Year Constructed:	1973	County:	Maricopa
Altitude:	1082.00 ft.	State:	Arizona
Well Depth:	252.00 ft.	Topographic Setting:	Valley flat
Depth to Water Table:	73.00 ft.	Prim. Use of Site:	Withdrawal of water
Date Measured:	07151973	Prim. Use of Water:	Public supply

LITHOLOGIC DATA

Not Reported

WATER LEVEL VARIABILITY

Not Reported

GEOCHECK VERSION 2.1
PUBLIC WATER SUPPLY SYSTEM INFORMATION

Searched by Nearest Well.

PWS SUMMARY:

PWS ID:	AZ0408007	PWS Status:	Active	Distance from TP:	1/2 - 1 Mile
Date Initiated:	June / 1977	Date Deactivated:	Not Reported	Dir relative to TP:	North
PWS Name:	ADOT CEDAR POCKETS R/A 206 S 17TH AVE 176A PHOENIX, AZ 85007				
Addressee / Facility:	System Owner/Responsible Party ARIZONA DEPT OF TRANSPORTATION 206 S 17TH AVE 176A PHOENIX, AZ 85007				
Facility Latitude:	33 26 53		Facility Longitude:	112 04 23	
Facility Latitude:	36 57 15		Facility Longitude:	113 54 15	
City Served:	REST AREA				
Treatment Class:	Untreated		Population Served:	Under 101 Persons	

Well currently has or has had major violation(s): Yes

VIOLATIONS INFORMATION:

Violation ID:	9416919	Source ID:	Not Reported	PWS Phone:	Not Reported
Vio. beginning Date:	02/01/94	Vio. end Date:	02/28/94	Vio. Period:	1 Month
Num of required Samples:	Not Reported	Number of Samples Taken:		Not Reported	
Analysis Result:	Not Reported	Maximum Contaminant Level:		Not Reported	
Analysis Method:	Not Reported				
Violation Type:	Monitoring, Routine Major (TCR)				
Contaminant:	COLIFORM (TCR)				
Vio. Awareness Date:	031494				
Violation ID:	9416920	Source ID:	Not Reported	PWS Phone:	Not Reported
Vio. beginning Date:	05/01/94	Vio. end Date:	05/31/94	Vio. Period:	1 Month
Num of required Samples:	Not Reported	Number of Samples Taken:		Not Reported	
Analysis Result:	Not Reported	Maximum Contaminant Level:		Not Reported	
Analysis Method:	Not Reported				
Violation Type:	Monitoring, Routine Major (TCR)				
Contaminant:	COLIFORM (TCR)				
Vio. Awareness Date:	061694				
Violation ID:	9406326	Source ID:	Not Reported	PWS Phone:	Not Reported
Vio. beginning Date:	10/01/93	Vio. end Date:	10/31/93	Vio. Period:	1 Month
Num of required Samples:	Not Reported	Number of Samples Taken:		Not Reported	
Analysis Result:	Not Reported	Maximum Contaminant Level:		Not Reported	
Analysis Method:	Not Reported				
Violation Type:	Monitoring, Routine Major (TCR)				
Contaminant:	COLIFORM (TCR)				
Vio. Awareness Date:	121793				

ENFORCEMENT INFORMATION:

Enforcement ID	Enforcement Action Date	Enforcement Follow-up Action
8079320	09/11/79	State Other

EPA Waste Codes Addendum

Code	Description
D000	NOT DEFINED
D001	IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKY-MARTENS CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET, WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.
D002	A WASTE WHICH HAS A PH OF LESS THAN 2 OR GREATER THAN 12.5 IS CONSIDERED TO BE A CORROSIVE HAZARDOUS WASTE. SODIUM HYDROXIDE, A CAUSTIC SOLUTION WITH A HIGH PH, IS OFTEN USED BY INDUSTRIES TO CLEAN OR DEGREASE PARTS. HYDROCHLORIC ACID, A SOLUTION WITH A LOW PH, IS USED BY MANY INDUSTRIES TO CLEAN METAL PARTS PRIOR TO PAINTING. WHEN THESE CAUSTIC OR ACID SOLUTIONS BECOME CONTAMINATED AND MUST BE DISPOSED, THE.WASTE WOULD BE A CORROSIVE HAZARDOUS WASTE.
D004	ARSENIC
D008	LEAD
D040	TRICHLOROETHYLENE
D043	VINYL CHLORIDE
F001	THE FOLLOWING SPENT HALOGENATED SOLVENTS USED IN DEGREASING: TETRACHLOROETHYLENE, TRICHLOROETHYLENE, METHYLENE CHLORIDE, 1,1,1-TRICHLOROETHANE, CARBON TETRACHLORIDE, AND CHLORINATED FLUOROCARBONS; ALL SPENT SOLVENT MIXTURES/BLENDS USED IN DEGREASING CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE HALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F002, F004, AND F005, AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.
F002	THE FOLLOWING SPENT HALOGENATED SOLVENTS: TETRACHLOROETHYLENE, METHYLENE CHLORIDE, TRICHLOROETHYLENE, 1,1,1-TRICHLOROETHANE, CHLOROBENZENE, 1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE, ORTHO-DICHLOROBENZENE, TRICHLOROFLUOROMETHANE, AND 1,1,2-TRICHLOROETHANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE HALOGENATED SOLVENTS OR THOSE LISTED IN F001, F004, OR F005, AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.
F003	THE FOLLOWING SPENT NON-HALOGENATED SOLVENTS: XYLENE, ACETONE, ETHYL ACETATE, ETHYL BENZENE, ETHYL ETHER, METHYL ISOBUTYL KETONE, N-BUTYL ALCOHOL, CYCLOHEXANONE, AND METHANOL; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONLY THE ABOVE SPENT NON-HALOGENATED SOLVENTS; AND ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONE OR MORE OF THE ABOVE NON-HALOGENATED SOLVENTS, AND, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THOSE SOLVENTS LISTED IN F001, F002, F004, AND F005, AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

EPA Waste Codes Addendum

Code	Description
F004	THE FOLLOWING SPENT NON-HALOGENATED SOLVENTS: CRESOLS AND CRESYLIC ACID, AND NITROBENZENE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE NON-HALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001, F002, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.
F005	THE FOLLOWING SPENT NON-HALOGENATED SOLVENTS: TOLUENE, METHYL ETHYL KETONE, CARBON DISULFIDE, ISOBUTANOL, PYRIDINE, BENZENE, 2-ETHOXYETHANOL, AND 2-NITROPROPANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE NON-HALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001, F002, OR F004; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.
F006	WASTEWATER TREATMENT SLUDGES FROM ELECTROPLATING OPERATIONS EXCEPT FROM THE FOLLOWING PROCESSES: (1) SULFURIC ACID ANODIZING OF ALUMINUM; (2) TIN PLATING ON CARBON STEEL; (3) ZINC PLATING (SEGREGATED BASIS) ON CARBON STEEL; (4) ALUMINUM OR ZINC-ALUMINUM PLATING ON CARBON STEEL; (5) CLEANING/STRIPPING ASSOCIATED WITH TIN, ZINC AND ALUMINUM PLATING ON CARBON STEEL; AND (6) CHEMICAL ETCHING AND MILLING OF ALUMINUM.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

To maintain currency of the following federal and state databases, EDR contacts the appropriate governmental agency on a monthly or quarterly basis, as required.

Elapsed ASTM days: Provides confirmation that this EDR report meets or exceeds the 90-day updating requirement of the ASTM standard.

FEDERAL ASTM RECORDS:

CERCLIS: Comprehensive Environmental Response, Compensation, and Liability Information System
Source: EPA/NTIS
Telephone: 703-603-8904
CERCLIS: CERCLIS contains data on potentially hazardous waste sites that have been reported to the USEPA by states, municipalities, private companies and private persons, pursuant to Section 103 of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). CERCLIS contains sites which are either proposed to or on the National Priorities List (NPL) and sites which are in the screening and assessment phase for possible inclusion on the NPL.

Date of Government Version: 03/31/96
Date Made Active at EDR: 06/03/96
Database Release Frequency: Monthly
Date of Data Arrival at EDR: 04/23/96
Elapsed ASTM days: 41
Date of Last EDR Contact: 01/13/97

ERNS: Emergency Response Notification System
Source: EPA/NTIS
Telephone: 202-260-2342
ERNS: Emergency Response Notification System. ERNS records and stores information on reported releases of oil and hazardous substances.

Date of Government Version: 06/30/96
Date Made Active at EDR: 11/05/96
Database Release Frequency: Quarterly
Date of Data Arrival at EDR: 08/19/96
Elapsed ASTM days: 78
Date of Last EDR Contact: 11/27/96

NPL: National Priority List
Source: EPA
Telephone: 703-603-8852
NPL: National Priorities List (Superfund). The NPL is a subset of CERCLIS and identifies over 1,200 sites for priority cleanup under the Superfund Program. NPL sites may encompass relatively large areas. As such, EDR provides polygon coverage for over 1,000 NPL site boundaries produced by EPA's Environmental Photographic Interpretation Center (EPIC).

Date of Government Version: 06/01/96
Date Made Active at EDR: 07/17/96
Database Release Frequency: Semi-Annually
Date of Data Arrival at EDR: 06/25/96
Elapsed ASTM days: 22
Date of Last EDR Contact: 12/23/96

RCRIS: Resource Conservation and Recovery Information System
Source: EPA/NTIS
Telephone: 703-308-7907
RCRIS: Resource Conservation and Recovery Information System. RCRIS includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA).

Date of Government Version: 10/31/96
Date Made Active at EDR: 02/06/97
Database Release Frequency: Semi-Annually
Date of Data Arrival at EDR: 01/09/97
Elapsed ASTM days: 28
Date of Last EDR Contact: 12/04/96

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

FEDERAL NON-ASTM RECORDS:

CONSENT: Superfund (CERCLA) Consent Decrees
Source: EPA Regional Offices
Telephone: Varies
Major legal settlements that establish responsibility and standards for cleanup at NPL (Superfund) sites. Released periodically by United States District Courts after settlement by parties to litigation matters.

Date of Government Version: Varies
Database Release Frequency: Varies
Date of Last EDR Contact: Varies
Date of Next Scheduled EDR Contact: 09/01/95

CORRACTS: Corrective Action Report
Source: EPA
Telephone: 703-308-7907
CORRACTS: CORRACTS identifies hazardous waste handlers with RCRA corrective action activity.

Date of Government Version: 04/10/95
Database Release Frequency: Semi-Annually
Date of Last EDR Contact: 12/18/96
Date of Next Scheduled EDR Contact: 03/17/97

FINDS: Facility Index System
Source: EPA/NTIS
Telephone: 703-908-2493
FINDS: Facility Index System. FINDS contains both facility information and "pointers" to other sources that contain more detail. EDR includes the following FINDS databases in this report: PCS (Permit Compliance System), AIRS (Aerometric Information Retrieval System), DOCKET (Enforcement Docket used to manage and track information on civil judicial enforcement cases for all environmental statutes), FURS (Federal Underground Injection Control), C-DOCKET (Criminal Docket System used to track criminal enforcement actions for all environmental statutes), FFIS (Federal Facilities Information System), STATE (State Environmental Laws and Statutes), and PADS (PCB Activity Data System).

Date of Government Version: 09/30/95
Database Release Frequency: Quarterly
Date of Last EDR Contact: 12/30/96
Date of Next Scheduled EDR Contact: 04/07/97

HMIRS: Hazardous Materials Information Reporting System
Source: U.S. Department of Transportation
Telephone: 202-366-4555
HMIRS: Hazardous Materials Incident Report System. HMIRS contains hazardous material spill incidents reported to DOT.

Date of Government Version: 12/31/95
Database Release Frequency: Annually
Date of Last EDR Contact: 01/27/97
Date of Next Scheduled EDR Contact: 04/28/97

MLTS: Material Licensing Tracking System
Source: Nuclear Regulatory Commission
Telephone: 301-415-7169
MLTS is maintained by the Nuclear Regulatory Commission and contains a list of approximately 8,100 sites which possess or use radioactive materials and which are subject to NRC licensing requirements. To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 02/13/96
Database Release Frequency: Quarterly
Date of Last EDR Contact: 01/14/97
Date of Next Scheduled EDR Contact: 04/14/97

NPL LIENS: Federal Superfund Liens
Source: EPA
Telephone: 205-564-4267
NPL LIENS: Federal Superfund Liens. Under the authority granted the USEPA by the Comprehensive Environmental Response, Compensation and Liability Act (CERCLA) of 1980, the USEPA has the authority to file liens against real property in order to recover remedial action expenditures or when the property owner receives notification of potential liability. USEPA compiles a listing of filed notices of Superfund Liens.

Date of Government Version: 10/15/91
Database Release Frequency: No Update Planned
Date of Last EDR Contact: 11/25/96
Date of Next Scheduled EDR Contact: 02/24/97

PADS: PCB Activity Database System
Source: EPA
Telephone: 202-260-3992
PADS: PCB Activity Database. PADS Identifies generators, transporters, commercial storers and/or brokers and disposers of PCB's who are required to notify the EPA of such activities.

Date of Government Version: 08/26/96
Database Release Frequency: Semi-Annually
Date of Last EDR Contact: 11/18/96
Date of Next Scheduled EDR Contact: 02/17/97

RAATS: RCRA Administrative Action Tracking System
Source: EPA
Telephone: 202-564-4104
RAATS: RCRA Administration Action Tracking System. RAATS contains records based on enforcement actions issued under RCRA pertaining to major violators and includes administrative and civil actions brought by the EPA.

Date of Government Version: 04/17/95
Database Release Frequency: N/A
Date of Last EDR Contact: 12/16/96
Date of Next Scheduled EDR Contact: 03/17/97

ROD: Records Of Decision
Source: NTIS
Telephone: 703-416-0703
Record of Decision. ROD documents mandate a permanent remedy at an NPL (Superfund) site containing technical and health information to aid in the cleanup.

Date of Government Version: 03/31/95
Database Release Frequency: No Update Planned
Date of Last EDR Contact: 12/02/96
Date of Next Scheduled EDR Contact: 03/03/97

TRIS: Toxic Chemical Release Inventory System
Source: EPA/NTIS
Telephone: 202-260-2320
TRIS: Toxic Release Inventory System. TRIS identifies facilities which release toxic chemicals to the air, water and land in reportable quantities under SARA Title III Section 313.

Date of Government Version: 12/31/92
Database Release Frequency: Annually
Date of Last EDR Contact: 12/30/96
Date of Next Scheduled EDR Contact: 03/31/97

TSCA: Toxic Substances Control Act
Source: EPA/NTIS
Telephone: 202-260-1444
TSCA: Toxic Substances Control Act. TSCA identifies manufacturers and importers of chemical substances included on the TSCA Chemical Substance Inventory list. It includes data on the production volume of these substances by plant site. USEPA has no current plan to update and/or re-issue this database.

Date of Government Version: 01/31/95
Database Release Frequency: Annually
Date of Last EDR Contact: 12/18/96
Date of Next Scheduled EDR Contact: 03/17/97

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

STATE OF ARIZONA ASTM RECORDS:

LUST: Leaking Tank Listing
Source: Department of Environmental Quality
Telephone: 602-207-4345
LUST: Leaking Underground Storage Tank Incident Reports. LUST records contain an inventory of reported leaking underground storage tank incidents. Not all states maintain these records, and the information stored varies by state.

Date of Government Version: 10/07/96
Date Made Active at EDR: 12/13/96
Database Release Frequency: Semi-Annually
Date of Data Arrival at EDR: 11/12/96
Elapsed ASTM days: 31
Date of Last EDR Contact: 01/27/97

SHWS: ZipAcids
Source: Department of Environmental Quality
Telephone: 602-207-2202
ACIDS: The ACIDS list consists of more than 750 locations subject to investigation under the State Water Quality Assurance Revolving Fund (WQARF) and Federal CERCLA programs.

Date of Government Version: 05/09/96
Date Made Active at EDR: 09/30/96
Database Release Frequency: Semi-Annually
Date of Data Arrival at EDR: 08/27/96
Elapsed ASTM days: 34
Date of Last EDR Contact: 01/27/97

SWF/LF: Directory of Solid Waste Facilities
Source: Department of Environmental Quality
Telephone: 602-207-4132
SWF/LF: Solid Waste Facilities/Landfill Sites. SWF/LF type records typically contain an inventory of solid waste disposal facilities or landfills in a particular state. Depending on the state, these may be active or inactive facilities or open dumps that failed to meet RCRA Section 2004 criteria for solid waste landfills or disposal sites.

Date of Government Version: 10/08/96
Date Made Active at EDR: 11/21/96
Database Release Frequency: Annually
Date of Data Arrival at EDR: 10/25/96
Elapsed ASTM days: 27
Date of Last EDR Contact: 01/06/97

UST: Arizona UST - DMS Facility and Tank Data Listing By City
Source: Department of Environmental Quality
Telephone: 602-207-4345
UST: Registered Underground Storage Tanks. UST's are regulated under Subtitle I of the Resource Conservation and Recovery Act (RCRA) and must be registered with the state department responsible for administering the UST program. Available information varies by state program.

Date of Government Version: 02/07/96
Date Made Active at EDR: 05/20/96
Database Release Frequency: Semi-Annually
Date of Data Arrival at EDR: 04/22/96
Elapsed ASTM days: 28
Date of Last EDR Contact: 01/21/97

WQARF: Water Quality Assurance Revolving Fund
Source: Department of Environmnetal Quality
Telephone: 602-207-2202
WQARF: The State of Arizona has established a program under A.R.S. 49-282 to remedy sites which may have an actual or potential impact upon waters of the State, caused by hazardous substances. In the WQARF program, the state takes actions to identify the extent and impact of the contamination and to identify the parties responsible for remediation of the site. The WQARF program provides matching funds to political subdivisions and other state agencies for clean-up activities.

Date of Government Version: 10/01/96
Date Made Active at EDR: 01/07/97
Database Release Frequency: Annually
Date of Data Arrival at EDR: 12/23/96
Elapsed ASTM days: 15
Date of Last EDR Contact: 01/06/97

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

STATE OF ARIZONA NON-ASTM RECORDS:

AQUIFER: Waste Water Treatment Facilities
Source: Department of Environmental Quality
Telephone: 602-207-4688
AQUIFER: Waste Water Treatment Facilities with APP (Aquifer Protection Permits.)

Date of Government Version: 02/09/96
Database Release Frequency: Semi-Annually
Date of Last EDR Contact: 11/08/96
Date of Next Scheduled EDR Contact: 02/03/97

DRY WELLS: Drywell Registration
Source: Department of Environmental Quality
Telephone: 602-207-2202
DRY WELLS: Arizona Dry Well List. Constructed solely for the disposal of storm water, more than 3,400 dry wells have been registered with the state under A.R.S. 49-331 through 336.

Date of Government Version: 07/18/96
Database Release Frequency: Semi-Annually
Date of Last EDR Contact: 11/18/96
Date of Next Scheduled EDR Contact: 06/16/97

DOD: Department of Defense Sites
Source: Department of Environmental Quality
Telephone: 602-207-2202
DOD: In addition to the NPL and WQARF Priority List sites, the Arizona Department of Environmental Quality (ADEQ) Remedial Projects program also manages ten non-priority list Department of Defense sites. These DOD sites are funded by the U.S. Department of Defense for cleanup.

Date of Government Version: 10/01/96
Database Release Frequency: Annually
Date of Last EDR Contact: 01/06/97
Date of Next Scheduled EDR Contact: 04/07/97

SPILLS: Hazardous Material Logbook
Source: Department of Environmental Quality
Telephone: 602-207-2202
SPILLS: ADEQ Emergency Response Unit. The ADEQ Emergency Response Unit documents chemical spills and incidents which are referred to the Unit. The logbook information for 1984-1986 consists of handwritten entries of the date, incident number and name of facility if known. Current logbooks are computerized and can be sorted by date, incident number, name, city (zip codes are not included), county, chemical and quantity.

Date of Government Version: 06/30/96
Database Release Frequency: Semi-Annually
Date of Last EDR Contact: 01/06/97
Date of Next Scheduled EDR Contact: 04/07/97

WWFAC: Waste Water Treatment Facilities
Source: Department of Environmental Quality
Telephone: 602-207-4623
WWFAC: Statewide list of waste water treatment facilities.

Date of Government Version: 12/03/96
Database Release Frequency: Semi-Annually
Date of Last EDR Contact: 12/02/96
Date of Next Scheduled EDR Contact: 03/03/97

Historical and Other Database(s)

Depending on the geographic area covered by this report, the data provided in these specialty databases may or may not be complete. For example, the existence of wetlands information data in a specific report does not mean that all wetlands in the area covered by the report are included. Moreover, the absence of any reported wetlands information does not necessarily mean that wetlands do not exist in the area covered by the report.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Former Manufactured Gas (Coal Gas) Sites: The existence and location of Coal Gas sites is provided exclusively to EDR by Real Property Scan, Inc. ©Copyright 1993 Real Property Scan, Inc. For a technical description of the types of hazards which may be found at such sites, contact your EDR customer service representative.

Disclaimer Provided by Real Property Scan, Inc.

The information contained in this report has predominantly been obtained from publicly available sources produced by entities other than Real Property Scan. While reasonable steps have been taken to insure the accuracy of this report, Real Property Scan does not guarantee the accuracy of this report. Any liability on the part of Real Property Scan is strictly limited to a refund of the amount paid. No claim is made for the actual existence of toxins at any site. This report does not constitute a legal opinion.

DELISTED NPL: Delisted NPL Sites
Source: EPA
Telephone: 703-603-8769
DELISTED NPL: The National Oil and Hazardous Substances Pollution Contingency Plan (NCP) establishes the criteria that the EPA uses to delete sites from the NPL. In accordance with 40 CFR 300.425.(e), sites may be deleted from the NPL where no further response is appropriate.

NFRAP: No Further Remedial Action Planned
Source: EPA/NTIS
Telephone: 703-416-0702
NFRAP: As of February 1995, CERCLIS sites designated "No Further Remedial Action Planned" (NFRAP) have been removed from CERCLIS. NFRAP sites may be sites where, following an initial investigation, no contamination was found, contamination was removed quickly without the need for the site to be placed on the NPL, or the contamination was not serious enough to require Federal Superfund action or NPL consideration. EPA has removed approximately 25,000 NFRAP sites to lift the unintended barriers to the redevelopment of these properties and has archived them as historical records so EPA does not needlessly repeat the investigations in the future. This policy change is part of the EPA's Brownfields Redevelopment Program to help cities, states, private investors and affected citizens to promote economic redevelopment of unproductive urban sites.

FRDS: Federal Reporting Data System
Source: EPA/Office of Drinking Water
Telephone: 202-260-2805
FRDS provides information regarding public water supplies and their compliance with monitoring requirements, maximum contaminant levels (MCL's), and other requirements of the Safe Drinking Water Act of 1986.

Area Radon Information: The National Radon Database has been developed by the U.S. Environmental Protection Agency (USEPA) and is a compilation of the EPA/State Residential Radon Survey and the National Residential Radon Survey. The study covers the years 1986 - 1992. Where necessary data has been supplemented by information collected at private sources such as universities and research institutions.

Oil/Gas Pipelines/Electrical Transmission Lines: This data was obtained by EDR from the USGS in 1994. It is referred to by USGS as GeoData Digital Line Graphs from 1:100,000-Scale Maps. It was extracted from the transportation category including some oil, but primarily gas pipelines and electrical transmission lines.

Sensitive Receptors: There are individuals who, due to their fragile immune systems, are deemed to be especially sensitive to environmental discharges. These typically include the elderly, the sick, and children. While the exact location of these sensitive receptors cannot be determined, EDR indicates those facilities, such as schools, hospitals, day care centers, and nursing homes, where sensitive receptors are likely to be located.

USGS Water Wells: In November 1971 the United States Geological Survey (USGS) implemented a national water resource information tracking system. This database contains descriptive information on sites where the USGS collects or has collected data on surface water and/or groundwater. The groundwater data includes information on more than 900,000 wells, springs, and other sources of groundwater.

Flood Zone Data: This data, available in select counties across the country, was obtained by EDR in 1994 from the Federal Emergency Management Agency (FEMA). Data depicts 100-year and 500-year flood zones as defined by FEMA.

Epicenters: World earthquake epicenters, Richter 5 or greater
Source: Department of Commerce, National Oceanic and Atmospheric Administration

Water Dams: National Inventory of Dams
Source: Federal Emergency Management Agency
Telephone: 202-646-2801
WATER DAMS: National computer database of more than 74,000 dams maintained by the Federal Emergency Management Agency.

Well Registration Database
Source: Department of Water Resources
Telephone: 602-542-1586
Contains information provided to ADWR's Operations Division by well drillers and/or owners.

PHOENIX - Supplemental
Env. Site Investigation 12/17/01

KERAMIDA
ENVIRONMENTAL, INC.
ENGINEERING • CONSULTING • REMEDIATION
AIR • LAND • WATER • WASTE

330 North College Avenue
Indianapolis, Indiana 46202
(317) 685-6600 • Fax (317) 685-6610
1-800-508-8034
email: keramida@keramida.com
web page: www.keramida.com

SUPPLEMENTAL ENVIRONMENTAL SITE INVESTIGATION
FORMER FRUEHAUF TRAILER FACILITY
902 SOUTH 7th STREET
PHOENIX, ARIZONA
KERAMIDA PROJECT NO. 2961B

Submitted To:

WABASH NATIONAL LLC
Mr. Rick Bossingham
Corporate Environmental Manager
1000 Sagamore Parkway South
P.O. Box 6129
Lafayette, Indiana 47903

Submitted By:

KERAMIDA ENVIRONMENTAL, INC.
330 North College Avenue
Indianapolis, Indiana 46202
317/685-6600

Gregory L. Heuer
Staff Chemist

Reviewed By:

Christina Haviland
Senior Project Manager

Andrew A. Gremos, L.P.G., C.H.M.M.
Vice President, Investigation and Remediation Services

December 17, 2001

SUPPLEMENTAL ENVIRONMENTAL SITE INVESTIGATION
FORMER FRUEHAUF TRAILER FACILITY
902 SOUTH 7th STREET
PHOENIX, ARIZONA
KERAMIDA PROJECT NO. 2961B

Submitted To:

WABASH NATIONAL LLC
Mr. Rick Bossingham
Corporate Environmental Manager
1000 Sagamore Parkway South
P.O. Box 6129
Lafayette, Indiana 47903

Submitted By:

KERAMIDA ENVIRONMENTAL, INC.
330 North College Avenue
Indianapolis, Indiana 46202
317/685-6600

December 17, 2001

EXECUTIVE SUMMARY

KERAMIDA Environmental, Inc. (KERAMIDA) has completed a Supplemental Environmental Site Investigation (Investigation) of the former Fruehauf Trailer Facility located at 902 South 7th Street in Phoenix, Maricopa County, Arizona (Site). The Investigation was completed in November of 2001 for Wabash National LLC (Client). The purpose of the Investigation was to delineate areas of environmental concern previously identified at the Site during a Phase II Environmental Site Assessment (Phase II) completed by KERAMIDA in May of 2001.

Results of the Phase II investigation showed that soil samples collected from around the former waste oil underground storage tank (UST), the existing oil-water separator, and the former paint spray booth contained arsenic and/or lead at concentrations exceeding the Arizona Department of Environmental Quality (ADEQ) Soil Remediation Standards for non-residential sites. Results of the Phase II investigation also showed the possibility for groundwater contamination due to off-Site source(s). The scope of work for this Supplemental Site Investigation was developed using the findings of the Phase II investigation.

Criteria used during the Investigation were based on the ADEQ Voluntary Remediation Program (VRP) remedial action standards. The Site and surrounding areas are considered to be non-residential land use scenarios, therefore, non-residential cleanup goals apply.

A total of eleven soil borings were advanced at the site. Soil samples were collected from each boring and submitted for laboratory analysis for arsenic, lead and/or chromium depending upon the results of the previous Phase II Investigation. Soil from one of the borings near the oil-water separator was also analyzed for organic compounds based on observations of heavy staining at that location during the Investigation. Four monitoring wells had been previously installed on the Site. Two additional monitoring wells were installed during the Investigation. One groundwater sample was collected from each of the 4 existing monitoring wells and the 2 new wells and analyzed for arsenic, lead, and chromium.

Based on the findings of the Investigation, soil samples collected from around the former waste oil UST, the existing oil-water separator, and the paint spray booth indicate the presence of arsenic in concentrations exceeding the ADEQ Soil Remediation Standards for non-residential

sites. However, the detected arsenic concentrations fall within the naturally occurring background range for arsenic in soils in the Phoenix and Tucson area. The analytical results also indicate that the lead-impacted surface soils previously identified in the spray paint booth area are limited in extent. The detected metals concentrations in groundwater are below the ADEQ Aquifer Water Quality Standards.

TABLE OF CONTENTS

1.0 INTRODUCTION 1
1.1 SITE DESCRIPTION 2
2.0 BACKGROUND 2
3.0 SUPPLEMENTAL SITE INVESTIGATION METHODS 5
3.1 ADEQ SUPERFUND FILE RESEARCH 5
3.2 SOIL BORING AND MONITORING WELL INSTALLATION 6
4.0 INVESTIGATION RESULTS 10
4.1 SOIL SAMPLES 10
4.2 GROUNDWATER SAMPLES 14
5.0 CONCLUSIONS 16
6.0 USE OF REPORT 17
7.0 LIMITATIONS 17
8.0 REFERENCES 18

ATTACHMENTS

1 Figure 1: Vicinity Map
Figure 2: Site Map
Figure 3: Site Detail Map
Figure 4: Soil Boring Location Map
Figure 5: Monitoring Well Location Map
Figure 6a: Soil Analytical Results Map (KB-9 through KB-17)
Figure 6b: Soil Analytical Results Map (MW-E and MW-F)
Figure 7: Groundwater Analytical Results Map
Figure 8: Potentiometric Surface Map

2 KERAMIDA Standard Operating Procedures

3 Boring Logs and Well Diagrams

4 Groundwater Sample Information Sheets

5 ADEQ UST Program: UST Corrective Action Section, 1,200-gallon Waste Oil UST Closure Letter

6 Analytical Report and Chain-of-Custody Documentation

SUPPLEMENTAL ENVIRONMENTAL SITE INVESTIGATION
FORMER FRUEHAUF TRAILER FACILITY
902 SOUTH 7th STREET
PHOENIX, ARIZONA
KERAMIDA PROJECT NO. 2961B

1.0 INTRODUCTION

KERAMIDA Environmental, Inc. (KERAMIDA) completed a Supplemental Environmental Site Investigation (Investigation) of the Former Fruehauf Facility located at 902 South 7th Street in Phoenix, Maricopa County, Arizona (Site). The Investigation was completed in November of 2001 for Mr. Rick Bossingham, Wabash National LLC (Client). The purpose of the Investigation was to delineate areas of environmental concern previously identified at the Site during a Phase II Environmental Site Assessment (Phase II) completed by KERAMIDA in May of 2001. The general location of the Site is identified on the vicinity map in Attachment 1 as Figure 1.

The Site consists of a single-story building and parking lot area along South 7th Street. Figure 2 of Attachment 1 presents a Site map. The purpose of the Investigation was to delineate potential areas of environmental concern previously identified at the Site during the Phase II. The following areas of focus were identified during the Phase II Investigation: soil contamination due to arsenic and lead levels in the Phase II soil samples in the areas of the former waste oil UST, existing oil/water separator and the area around a former hole in the floor of the former paint spray booth; and possible groundwater contamination due to off-Site source(s). The scope of work for this Supplemental Environmental Site Investigation was developed using the findings of the Phase II Investigation.

For the purpose of this preliminary evaluation, the Arizona Department of Environmental Quality (ADEQ) Remedial Action Title 18 Environmental Quality, Chapter 7 Article 2: Soil Remediation Standards, March 31, 2001 and the ADEQ Chapter 11 Article 4: Aquifer Water Quality Standards, March 31, 2001 were used to establish the degree of contamination in the areas of environmental concern. These standards are human-health risk based and, therefore, provide a good basis for determining the significance of the analytical results. This report documents the activities conducted during the Supplemental Environmental Site Investigation and presents the findings generated.

1.1 SITE DESCRIPTION

The Site is located on the west side of South 7th Street between East Sherman and East Tonto Streets. A one-story building is located at the northeast corner of the rectangular-shaped property. An asphalt parking lot covers most of the remaining area of the Site. The one-story building, comprising approximately 22,500 square feet, is built on a concrete slab and is of concrete block construction. The exact age of the structure is not known; it is estimated, however, to be approximately 56 years old, based on the dates obtained from the As-built maps drawn by Harry L. Wagner – Architect, from Kansas City, Missouri. The Site is surrounded on all sides by commercial/industrial properties, and is located in a predominantly industrial area approximately two miles southeast of downtown Phoenix. A Vicinity Map and a Site Map are included as Figures 1 and 2, respectively in Attachment 1.

2.0 BACKGROUND

Previous environmental issues addressed and investigations completed at the Site include the following:

- One 1,200-gallon waste oil underground storage tank (UST) along with an on-Site drywell were removed along with any existing contaminated soil related to the release. Release discovery and UST/drywell removal are thought to have occurred on October 29, 1992 based on ADEQ Site data.

- The 1,200-gallon waste oil UST was reported as having a release at the Site on December 16, 1992.

- The release related to the 1,200-gallon waste oil UST received closure from the ADEQ Underground Storage Tank (UST) Program UST Corrective Action Section Project Manager, Quinn Thacker on December 17, 1999.

- A Phase I Environmental Site Assessment was completed by KERAMIDA in August of 1999.

- A Phase II Environmental Site Investigation was completed by KERAMIDA in May of 2001.

The previous environmental issues and investigations resulted in the following findings regarding soil and groundwater contamination at the Site:

1. Upon discussions with the former Fruehauf/Wabash Service Manager, Mr. Bruce Kasmer, it was determined that dry well removal was conducted concurrent with the removal of the former UST. Contaminated soils that were found at the time were also removed to at least the depth of excavation of a trackhoe (approximately 20 feet). The excavation was then backfilled with clean, non-native materials (sand and gravel). Some of the contaminated soils that were removed were properly disposed of off-site at a landfill and some of the contaminated soil was treated on site using microbes for a period of several years. Mr. Kasmer did not know the details of the on-site treatment activities, but stated that he recalled that the microbe treatments did not achieve the cleanup goals desired, and the soils were then removed from the site and sent for incineration. He was not aware of any reports related to the on-site treatment. There was no evidence of a dry well at the Site at the time of the Phase II Investigation and boring KB-2 was installed within the former excavation area related to the dry well and waste oil UST. None of the compounds analyzed from the deep soil sample at KB-2, advanced during the Phase II, exceeded the ADEQ soil standards for non-residential sites.

2. A Leaking Underground Storage Tank (LUST) Case Closure letter was issued on December 17, 1999. This letter was issued based on the following facts stated by the ADEQ:

    a. The release had been adequately investigated and vertically and horizontally defined to 10 feet below ground surface (bgs).

    b. Depth to groundwater was approximately 60 feet bgs.

    c. Based upon the laboratory analytical results of the investigation, the release was adequately defined and all soils related to the release had been removed. The results of soil testing after soil removal indicated that contaminant concentrations remaining in the subsurface soil meet the residential Health Based Guidance Level as specified in Arizona Administrative Code (A.A.C.) R18-7-201 et seq. for the identified contaminants.

d. The highest soil contaminant concentration that remained in the subsurface soil included 320 mg/kg petroleum hydrocarbons at or about 10 feet bgs.

A copy of the 1,200-gallon waste oil UST closure letter is included as Attachment 5 for review.

3. The following areas of focus were identified during the Phase I Investigation completed by KERAMIDA in August of 1999: Possible soil and groundwater contamination due to operation as a trailer sales and service business at the Site, and possible groundwater contamination due to off-Site source(s) in the area. Specific areas of concern included: a waste oil underground storage tank (UST) that had been removed from a location near the former truck wash; an existing oil/water separator near the northwest corner of the building; the former and existing truck wash areas and an associated dry well; the paint spray booth; and the paint waste storage shed. Based on the findings of the Phase I Site Assessment, a Phase II Investigation was proposed to investigate the areas of environmental concern.

4. Based on the findings of the Phase II Investigation, the following environmental issues were noted:

   a. Soil samples collected from around the former waste oil UST, the existing oil/water separator, and the paint spray booth indicated the presence of arsenic and lead in concentrations that exceeded the ADEQ Soil Remediation Standards for Non-Residential Sites. Further investigation was recommended to determine the nature, magnitude and extent of these metals' occurrence in order to determine an appropriate remedial strategy.

   b. The concentration of arsenic and chromium exceeded the ADEQ Aquifer Water Quality Standards in the four wells (MW-A through MW-D) sampled at the Site. The concentration of lead in the water samples collected from MW-B and C exceeded the ADEQ Aquifer Water Quality Standards.

   c. Chromium was present in the groundwater samples (MW-A through MW-D) in high concentrations. However, chromium concentrations in soil samples from the Site did not exceed soil remediation standards. This may imply that chromium in the groundwater is from an off-site source(s).

d. KERAMIDA recommended that a detailed file search related to the "East Washington WQARF Project Area" be conducted. The goal of this file search would be to obtain public information related to the work that has been conducted by the ADEQ in assessing groundwater conditions within the area. The ADEQ information should have defined groundwater flow directions, contaminants and concentrations of concern, and potential or known source areas. The information would be evaluated by KERAMIDA to assess the potential that the groundwater at the Site has been impacted by off-site sources rather than by the past activities on the Site.

e. KERAMIDA also recommended that an elevation survey be conducted for the existing monitoring wells at the Site so that an accurate groundwater flow direction beneath the Site could be determined.

3.0 SUPPLEMENTAL SITE INVESTIGATION METHODS

3.1 ADEQ SUPERFUND FILE RESEARCH

Detailed research was conducted by KERAMIDA to obtain information related to the ongoing ADEQ investigations being conducted on Superfund sites in the area of the Site. The major goal of the research was to determine whether these Superfund sites were contributing to any of the groundwater contaminants of concern for the Site.

The "East Washington WQARF Project Area" is a Superfund site located southwest of the Site. In a phone conversation with the East Washington site project manager, Samantha Roberts of ADEQ, on September 24, 2001, it was stated that there is currently no groundwater contamination in any of the three (3) wells that are located on the East Washington site. It was further stated that only soil contaminated with PCBs, lead and cadmium has been found. Chromium levels were tested at the East Washington site and were found to be below the Arizona action levels. It was stated that additional investigation was to be conducted in October of 2001.

Further research conducted on the Superfund sites revealed a second area of concern for contribution of off-site contamination to the Site. A Superfund site called the "Motorola 52nd Street Site" was found to be contributing to a trichloroethylene (TCE) plume in the groundwater

in the vicinity of the Site. In a phone conversation with the project manager, Chris Kommalan of ADEQ, on October 4, 2001, it was stated that the two major contributors to this plume were Motorola and Honeywell located to the northwest of the Site. Groundwater flow for the "Motorola 52nd Street Site", was indicated to be from east to west. From the information that was gathered, the Site is located on the boundary of the TCE plume in the area. This could be a potential contributor for future groundwater impact to the Site.

3.2 SOIL BORING AND MONITORING WELL INSTALLATION

Prior to the initiation of the field activities, KERAMIDA contacted 1-800-STAKE-IT and local utility companies and requested that they mark the locations of underground utilities at the Site. A site safety meeting, including a review of the health and safety plan, was performed at the beginning of field activities.

KERAMIDA performed the Supplemental Environmental Site Investigation field activities between November 12 and November 17, 2001. Soil and groundwater samples were collected during the Investigation. Nine soil borings (KB-9 to KB-17) were advanced at the Site using hollow-stem auger (HSA) technology. Two soil borings, converted into monitoring wells MW-E and MW-F, were advanced at the Site using a Stratex 132® forward air rotary drilling rig. The soil boring locations are depicted on the Soil Boring Location Map provided as Figure 4 in Attachment 1. All borings were completed by Yellow Jacket Drilling Company under the direct supervision of Greg Heuer, Site Manager with KERAMIDA. The borings were advanced following KERAMIDA's Standard Operating Procedures located in Attachment 2. The borings were continuously sampled every 1.5 feet and logged.

Following collection of soil samples, permanent monitoring wells were installed in borings MW-E and MW-F. The wells extended from ground surface to 95 feet bgs and contained thirty feet of screen from 65 to 95 feet bgs. A detailed description of the well installation procedures used at the Site are included in the KERAMIDA Standard Operating Procedures (SOPs) presented in Attachment 2 A. The boring logs for borings KB-9 through KB-17 and boring logs with monitoring well diagrams for MW-E and MW-F are included in Attachment 3.

The rationale for the selected locations of the borings and monitoring wells, boring depths from which samples were collected and the analyses performed are given in Table 1. The selected boring locations and analyses run on each soil and groundwater sample were determined by the results of the Phase II performed in May 2001. In general, borings were placed in or around the areas of concern identified in the Phase II Investigation. Table 1 also includes the depths of the borings and whether groundwater was encountered. Soil and groundwater samples were collected according to KERAMIDA's SOPs located in Attachment 2. Collected samples were submitted to Test America Laboratories of Nashville, Tennessee, for analyses of: volatile organic compounds (VOCs) by EPA SW-846 Method 8260; semivolatile organic compounds (SVOCs) by EPA SW-846 Method 8270; polychlorinated biphenyls (PCBs) by EPA SW-846 Method 8080/8081; and the eight (8) RCRA metals by EPA SW-846 Methods 6010 and 7471. Not all samples were analyzed for all parameters.

Table 1
Former Fruehauf Trailer Facility
902 South 7th Street
Phoenix, Arizona
KERAMIDA PROJECT NO. 2961B

SOIL SAMPLING							
Boring Number	**Location Rationale**	**Method**	**Date**	**Total Depth (ft)**	**Sample Depth (ft)**	**Sampling Rationale**	**Lab Testing**
KB-9	Step-off boring from KB-7	HSA	11/12/01	10.0	2.5-3.0 and 7.5-8.0	delineation	Arsenic and lead
KB-10	Step-off boring from KB-7	HSA	11/12/01	2.0	1.5-2.0	delineation	Arsenic and lead
KB-10A	Step-off boring from KB-7	HSA	11/12/01	2.0	No sample obtained	delineation	None
KB-11	Step-off boring from KB-7	HSA	11/12/01	8.5	2.5-3.0 and 8.0-8.5	delineation	Arsenic and lead
KB-12	Step-off boring from KB-7	HSA	11/12/01	10.5	2.5-3.0 and 8.0-8.5	delineation	Arsenic and lead
KB-13	Arsenic delineation	HSA	11/13/01	10.5	2.5-3.0 and 10.0-10.5	delineation	Arsenic
KB-14	Arsenic delineation	HSA	11/13/01	10.5	*2.5-3.0, **4.0-4.5, *10.0-10.5	delineation	*Arsenic **VOCs, SVOCs, PCBs, and RCRA 8 metals
KB-15	Arsenic delineation	HSA	11/13/01	10.5	2.5-3.0 and 10.0-10.5	delineation	Arsenic
KB-16	Arsenic delineation	HSA	11/13/01	10.5	2.5-3.0 and 10.0-10.5	delineation	Arsenic
KB-17	Arsenic delineation	HSA	11/13/01	10.5	2.5-3.0 and 10.0-10.5	delineation	Arsenic

HSA = hollow stem auger
VOCs = volatile organic compounds
PCBs = polychlorinated biphenyls
GW = groundwater
SVOCs = semi-volatile organic compounds
RCRA = Resource Conservation and Recovery Act
RCRA 8 metals = arsenic, barium, cadmium, chromium, lead, mercury, selenium, silver

* Only arsenic was sampled for analysis at these depths.
** VOCs, SVOCs, PCBs and RCRA 8 metals were sampled for analysis due to heavily stained soils.

Table 1 continued
Former Fruehauf Trailer Facility
902 South 7th Street
Phoenix, Arizona
KERAMIDA PROJECT NO. 2961B

GROUNDWATER SAMPLING							
Monitoring Well	**Location Rationale**	**Installation Method**	**Date**	**Total Depth (ft)**	**Static Groundwater Depth (ft)**	**Sampling Rationale**	**Lab Testing**
MW-A	Existing well	Unknown	11/16/01	89.06	80.20	Based on Results of Phase II	Arsenic, chromium, lead
MW-B	Existing well	Unknown	11/16/01	88.03	80.87	Based on Results of Phase II	Arsenic, chromium, lead
MW-C	Existing well	Unknown	11/16/01	87.79	81.09	Based on Results of Phase II	Arsenic, chromium, lead
MW-D	Existing well	Unknown	11/16/01	89.42	81.16	Based on Results of Phase II	Arsenic, chromium, lead
MW-E	Groundwater flow direction	Forward Air Rotary	11/16/01	95.08	80.92	Based on Results of Phase II	Arsenic, chromium, lead
MW-F	Groundwater flow direction	Forward Air Rotary	11/16/01	94.81	81.47	Based on Results of Phase II	Arsenic, chromium, lead

MW = Monitoring Well

4.0 INVESTIGATION RESULTS

The topography of the Site is flat with an average ground surface elevation of 1080 feet above mean sea level. The subsurface material encountered in the soil borings completed at the Site during this Investigation consists of a layer of concrete and/or fill material to approximately three feet bgs overlying silt with clay to a depth of approximately 10 feet bgs. Underlying the silt with clay were cobbles mixed with interbedded layers of sand that were encountered to a maximum depth of boring exploration (95 feet). For a complete description of the materials encountered in the borings, please refer to the boring logs provided in Attachment 3.

4.1 SOIL SAMPLES

The VOCs and metals detected in the soil samples are summarized in Tables 2 and 3 respectively. The analytical results for these samples are also provided on Figures 6a and 6b of Attachment 1. The ADEQ Soil Remediation Standards for the respective compounds are provided at the bottom of each table. The average concentrations of the metals analyzed from ADEQ data obtained from the Phoenix/Tucson area are also presented at the bottom of Table 3. SVOCs and PCBs for the soil sample from KB-14, 4.0-4.5 feet bgs, were below laboratory detection limits; therefore, these results are not displayed in tabular format. All results were evaluated against the ADEQ Non-residential Soil Remediation Levels. Copies of the laboratory reports are included in Attachment 6.

The analytical results for VOCs, SVOCs, and PCBs for soil samples from boring KB-14 were below the respective ADEQ Soil Remediation Standard for non-residential sites. Some constituents that were detected at the Site do not have standards developed for them under the ADEQ guidelines; therefore, the U.S. EPA Region IX, Risk Based Concentration Table, Updated November 1999 is used for comparison as footnoted in the tables.

As illustrated in Table 3, soil samples collected from borings KB-9 (2.5-3.0'); KB-12 (2.5-3.0'); KB-16 (2.5-3.0') and KB-17 (2.5-3.0') exceed their respective ADEQ Non-residential Soil Remediation Levels for arsenic. These results were only slightly above the soil remediation levels established for non-residential scenarios. The analytical results for arsenic levels in soil for this Investigation have a range similar to the analytical results found for arsenic levels in the Phase II Investigation.

KERAMIDA has researched the background arsenic levels in Arizona soils, specifically, the published paper, "Evaluation of Background Metals Concentrations in Arizona Soils" written by The Earth Technology Corporation for ADEQ in 1991. The government agencies that provided samples of Arizona soils from which background concentrations of arsenic were established in Arizona soil were the ADEQ and the USGS. A set of 47 USGS soil sampling sites and 62 ADEQ soil sampling sites were evaluated. Specifically, the ADEQ samples were taken from the greater Phoenix and Tucson areas and may be representative of the arsenic concentrations found at the Site. According to The Earth Technology Corporation report, the 62 ADEQ samples had a maximum background arsenic level concentration of 24 mg/kg, a minimum of 3.1 mg/kg and an average background level of 9.4 mg/kg. All of the arsenic levels from the soil samples obtained at the Site fall within the range of 3.1 – 24 mg/kg. After consideration of this research, KERAMIDA believes that the levels of arsenic found in the Site soils are well within the common background ranges established for the region within which the Site is located.

Table 2
Soil VOC Results (mg/kg)
Fruehauf Trailers
Phoenix, Arizona
KERAMIDA Project No. 2961B

Sample No.	Date Sampled	Sample Depth (feet)	Lab Sample No.	Acetone	Benzene	Ethylbenzene	Isopropylbenzene	n-Propylbenzene	Tetrachloroethene	Toluene	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	Xylenes, Total	All Other VOCs
KB-14	11/13/01	4-4.5	01-A163524	**0.0822**	**0.0165**	**0.0065**	**0.0046**	**0.0020**	**0.0045**	**0.0240**	**0.0054**	**0.0046**	**0.0128**	ND
ADEQ Residential Soil Remediation Levels[1]				2,100.0	0.62	1,500	19.0	140[2]	53.0	790.0	52[2]	21[2]	2,800.0	NA
ADEQ Non-Residential Soil Remediation Levels[1]				8,800.0	1.4	2,700	62.0	560[2]	170.0	2,700.0	170[2]	70[2]	2,800.0	NA

VOCs = Volatile Organic Compounds
Samples analyzed using EPA SW-846 Method 8270
mg/kg = milligrams per kilogram
NA = Not Applicable
[1] Arizona Administrative Code Department of Environmental Quality - Remedial Action Title 18, Chapter 7, Article 2: Soil Remediation Standards, March 31, 2001.
[2] U.S. EPA Region IX, Risk Based Concentration Table, Updated November 1999
* no standards developed

Table 3
Soil Metal Analytical Results (mg/kg)
Fruehauf Trailers
Phoenix, Arizona
KERAMIDA Project No. 2961B

Sample No.	Date Sampled	Sample Depth (feet)	Lab Sample No.	Total Arsenic	Total Barium	Total Cadmium	Total Chromium	Total Lead	Total Mercury	Total Selenium	Total Silver
MW-E	11/14/01	10-10.5	01-A166153	**7.35**	NA	NA	**23.6**	**8.51**	NA	NA	NA
MW-F	11/16/01	10-10.5	01-A166154	**5.07**	NA	NA	**10.9**	**4.29**	NA	NA	NA
KB-9	11/12/01	2.5-3	01-A163514	**10.6**	NA	NA	NA	**5.22**	NA	NA	NA
KB-9	11/12/01	7.5-8	01-A163515	**9.86**	NA	NA	NA	**4.45**	NA	NA	NA
KB-10	11/12/01	1.5-2	01-A163516	**7.62**	NA	NA	NA	**177**	NA	NA	NA
KB-11	11/12/01	2.5-3	01-A163517	**9.26**	NA	NA	NA	**6.04**	NA	NA	NA
KB-11	11/12/01	8-8.5	01-A163518	**9.07**	NA	NA	NA	**4.05**	NA	NA	NA
KB-12	11/12/01	2.5-3	01-A163519	**10.7**	NA	NA	NA	**4.59**	NA	NA	NA
KB-12	11/12/01	8-8.5	01-A163520	**9.88**	NA	NA	NA	**4.07**	NA	NA	NA
KB-13	11/13/01	2.5-3	01-A163521	**7.85**	NA	NA	NA	NA	NA	NA	NA
KB-13	11/13/01	10-10.5	01-A163522	**6.69**	NA	NA	NA	NA	NA	NA	NA
KB-14	11/13/01	2.5-3	01-A163523	**8.52**	NA	NA	NA	NA	NA	NA	NA
KB-14	11/13/01	4-4.5	01-A163524	**9.62**	**132**	<0.962	**26.7**	**17.9**	**0.157**	<0.962	<0.962
KB-14	11/13/01	10-10.5	01-A163525	**5.71**	NA	NA	NA	NA	NA	NA	NA
KB-15	11/13/01	2.5-3	01-A163526	**6.67**	NA	NA	NA	NA	NA	NA	NA
KB-15	11/13/01	10-10.5	01-A163527	**8.43**	NA	NA	NA	NA	NA	NA	NA
KB-16	11/31/01	2.5-3	01-A163528	**10.2**	NA	NA	NA	NA	NA	NA	NA
KB-16	11/13/01	10-10.5	01-A163529	**6.48**	NA	NA	NA	NA	NA	NA	NA
KB-17	11/13/01	2.5-3	01-A163530	**10.9**	NA	NA	NA	NA	NA	NA	NA
KB-17	11/13/01	10-10.5	01-A163531	**7.02**	NA	NA	NA	NA	NA	NA	NA
ADEQ Residential Soil Remediation Levels[1]				10	5,300	38	2,100	400	6.7	380	380
ADEQ Non-Residential Soil Remediation Levels[1]				10	110,000	850	4,500	2,000	180	8,500	8,500
ADEQ Common Background Ranges-Phoenix/Tucson Areas [2]				3.1-24	72.6-230	ND-1.7	5.4-34	ND-24.5	ND-0.25	<0.4-1.0	<0.05-0.8

Samples analyzed using EPA Method Series 6000/7000
mg/kg = milligrams per kilogram
NA = Not Analyzed
[1] Arizona Administrative Code Department of Environmental Quality - Remedial Action Title 18, Chapter 7, Article 2: Soil Remediation Standards, March 31, 2001.
[2] Source: The Earth Technology Corporation, 1991. Evaluation of Background Metals Concentrations in Arizona Soils, Table B-2. Concentrations of Selected Metals Detected in ADEQ Samples, June 1991. Prepared for Arizona Department of Environmental Quality, 2005 North Central Avenue, Phoenix, Arizona. Groundwater Hydrology Section.

4.2 GROUNDWATER SAMPLES

KERAMIDA installed two additional groundwater-monitoring wells (MW-E and MW-F) at the Site on November 14-16, 2001. Surv Net, Inc. of Mesa, AZ, surveyed the monitoring wells to a City of Phoenix benchmark on November 19, 2001 (elevations based on City of Phoenix benchmark = 1081.08). The locations of the monitoring wells are presented on the Monitoring Well Location Map provided as Figure 5 of Attachment 1. Boring logs along with well construction diagrams are found in Attachment 3. Static groundwater levels were measured on November 15-16, 2001 before the wells were purged for sampling. The monitoring wells were sampled by KERAMIDA on November 16, 2001. Elevations and static groundwater levels for each monitoring well are summarized in Table 4.

All of the groundwater samples were analyzed for total arsenic, total lead and total chromium. Metals detected in the groundwater samples are summarized in Table 5, and are also depicted on Figure 7 of Attachment 1. The ADEQ Chapter 11 Article 4: Aquifer Water Quality Standards March 31, 2001 are provided at the bottom of the table. The results were evaluated against these standards.

The results for total arsenic, total lead and total chromium for all water samples collected were below the respective ADEQ Aquifer Water Quality Standards. Groundwater metal analytical results for this sampling event are summarized in Table 5. During the Phase II Investigation groundwater sampling event, five metals were detected in the groundwater. Of these metals, arsenic, chromium, and lead were detected at concentrations above their ADEQ Water Quality Standards at MW-B and MW-C, while only arsenic and chromium were exceeded in MW-A and MW-D. Water samples were not filtered during either the Phase II or the Supplemental Site Investigation sampling events. During the Supplemental Site Investigation, field parameter measurements for groundwater within the wells were allowed to equilibrate prior to collection of groundwater samples. Each of the groundwater samples obtained were clear. Allowing the wells to equilibrate limited the amount of turbidity in each groundwater sample. A reduction in turbidity is a reduction in the amount of suspended solids in solution. Typically, metals adsorb to the surface of these suspended solids. By reducing the amount of suspended solids in solution, the concentration of total metals adsorbed to these solids is also reduced. The ADEQ is interested in the amount of dissolved metals concentrations in the groundwater, not the metals that are adsorbed to suspended solids in the groundwater. Therefore, the groundwater analytical

results of this Supplemental Site Investigation are representative of Site groundwater conditions due to the clarity of the samples obtained.

Table 4
Groundwater Monitoring Well Elevation Data
Former Fruehauf Trailer Facility
902 South 7th Street
Phoenix, Arizona
KERAMIDA Project No. 2961B
(All measurements in feet)

Monitoring Well	Top PVC Elevation*	Depth to Groundwater	Static Groundwater Elevation
MW-A	1081.47	80.20	1001.27
MW-B	1081.89	80.87	1001.02
MW-C	1081.80	81.09	1000.71
MW-D	1081.88	81.16	1000.72
MW-E	1081.37	80.92	1000.45
MW-F	1082.30	81.47	1000.83

*** Elevations based on City of Phoenix benchmark = 1081.08.**

Static water level measurements ranged from 80.20 to 81.47 feet below ground surface (bgs). From this information, general groundwater flow direction was determined to be in a southwesterly direction. The location of the monitoring wells and the groundwater flow direction are depicted on the Potentiometric Surface Map included as Figure 8 of Attachment 1.

Table 5
Groundwater Metal Analytical Results (µg/L)
Fruehauf Trailers
Phoenix, Arizona
KERAMIDA Project No. 2961B

Sample No.	Date Sampled	Lab Sample No.	Total Arsenic	Total Chromium	Total Lead
MW-A	11/16/01	01-A166155	**8.00**	<5.000	<3.000
MW-A dup	11/16/01	01-A166156	**9.00**	<5.000	<3.000
MW-B	11/16/01	01-A166157	**10.0**	**8.000**	<3.000
MW-C	11/16/01	01-A166158	**7.00**	<5.000	<3.000
MW-D	11/16/01	01-A166159	**10.0**	**8.000**	<3.000
MW-E	11/16/01	01-A166160	**10.0**	**13.00**	<3.000
MW-F	11/16/01	01-A166161	**7.00**	**7.000**	<3.000
ADEQ Aquifer Water Quality Standards[1]			50	100	50

Samples analyzed using EPA Method Series 6000/7000
µg/L = micrograms per liter
[1] Arizona Administrative Code Department of Environmental Quality - Remedial Action Title 18, Chapter 11, Article 4: Aquifer Water Quality Standards, March 31, 2001

5.0 CONCLUSIONS

The results of this Supplemental Site Investigation point to one area where site activities have had an impact on surface soils. This area is located in the former paint spray booth and is restricted in area to the surface soils in and around a former hole in the floor. This observation is supported by laboratory analytical results of the soil samples collected from "step-off" borings KB-9 through KB-12, located around boring KB-7 which was advanced during the Phase II. The laboratory analytical results for soil borings KB-9 through KB-12 indicate that lead levels are well below the ADEQ Remedial Action Non-residential Remediation Standards for lead at a radius of approximately 10 feet from KB-7.

This Supplemental Environmental Site Investigation focused on several areas of environmental concern identified by KERAMIDA's Phase II Environmental Site Assessment. Arsenic and lead are the only compounds of concern at the Site that exceed the ADEQ Soil Remediation Standards. Soil samples collected during this Supplemental Site Investigation show only four surface soil samples that exceed the ADEQ Soil Remediation Standard for arsenic. These results were only slightly above the soil remediation levels established for non-residential scenarios. The analytical results for arsenic levels in soil for this Supplemental Site Investigation have a

range similar to the analytical results found for arsenic levels during the Phase II Investigation. KERAMIDA has researched the background arsenic levels in Arizona soils, specifically, the published paper, "Evaluation of Background Metals Concentrations in Arizona Soils". After consideration of this research, we believe that the levels of arsenic found in the Site soils are well within the common background ranges established for the region where the Site is located.

The groundwater samples collected from the six existing monitoring well locations (MW-A through MW-F) were analyzed for arsenic, chromium and lead. None of the metals that were detected in the groundwater samples (arsenic and chromium) exceed the ADEQ Aquifer Water Quality Standards.

6.0 USE OF REPORT

This report has been prepared for the exclusive use of the Client and persons or organizations to which the Client wishes to make this report available. This report and the findings, conclusions and recommendations contained herein shall not, in whole or in part, be disseminated or conveyed to any other party, or used by or relied upon by any other party, without the prior written consent of KERAMIDA.

7.0 LIMITATIONS

This Investigation was conducted in accordance with KERAMIDA contractual guidelines set for subsurface investigations. KERAMIDA's professional opinions contained herein are based upon the sampling conducted by KERAMIDA personnel during the subsurface Investigation. No other warranty is given or implied by this report.

8.0 REFERENCES

Arizona Department of Environmental Quality (ADEQ). 2001. Office of Remedial Action, Title 18, Chapter 7, Article 2 Soil Remediation Standards. March 31.

ADEQ. 2001. Title 18, Chapter 11, Article 4: Aquifer Water Quality Standards. Office of Remedial Action. March 31.

KERAMIDA Environmental Inc. (KERAMIDA). 1999. *Environmental Site Assessment Inspection and Environmental Fact Sheet – Fruehauf Trailers Sales, Phoenix, Arizona.* August 5.

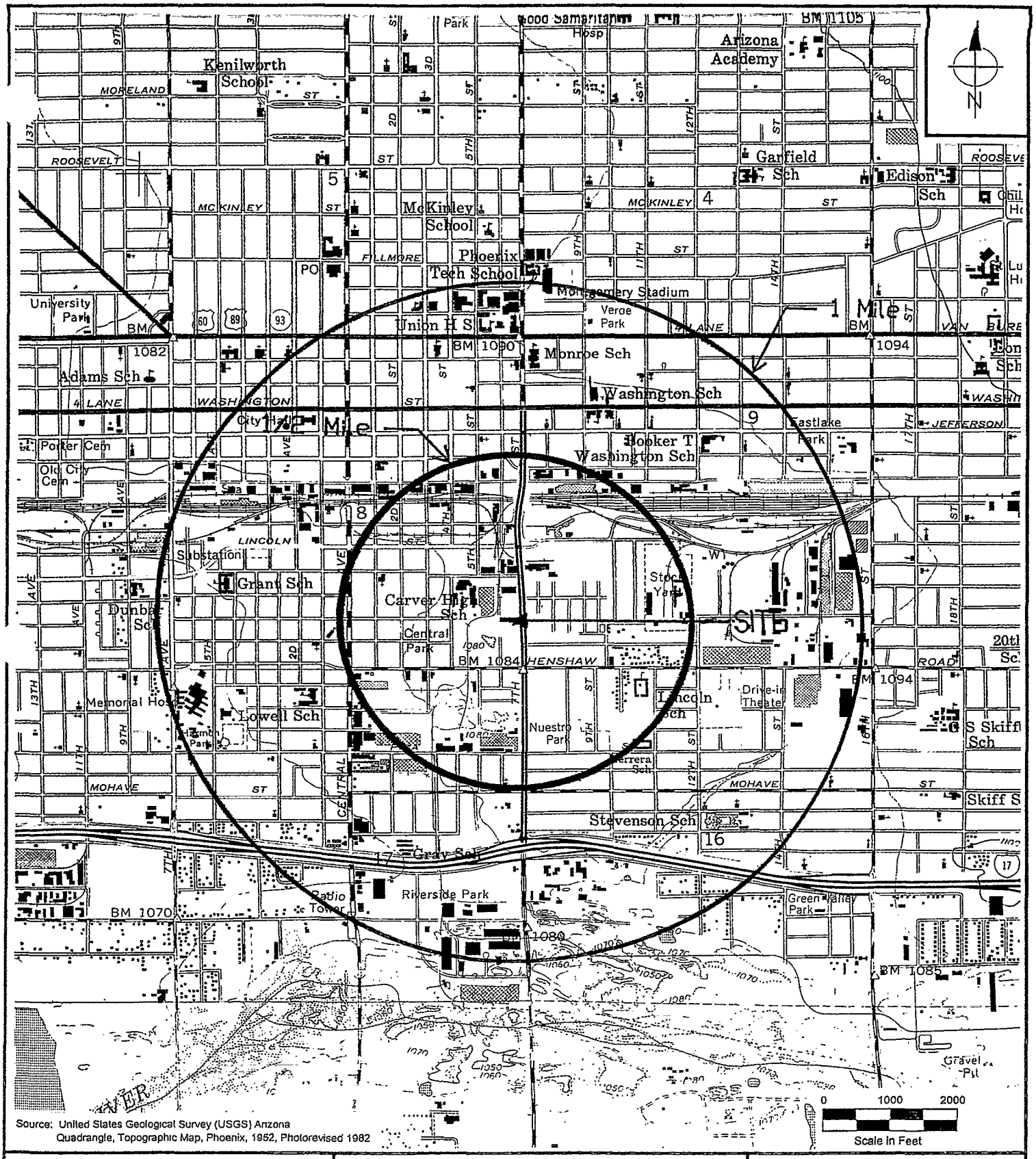
KERAMIDA. 2001. *Phase II Environmental Site Investigation, Fruehauf Trailers, Phoenix, Arizona.* Prepared for Wabash National, LLC. June 14.

United States Geological Survey (USGS). 1952. Arizona Quadrangle, Topographic Map, Phoenix, Photorevised 1982.

The Earth Technology Corporation, 1991. *Evaluation of Background Metals Concentrations in Arizona Soils.* Prepared for Arizona Department of Environmental Quality, Groundwater Hydrology Section. June.

U.S. Environmental Protection Agency. 2001. *Region 9 Preliminary Remediation Goals (PRG).* On-line address: http://www.epa.gov/Region9/waste/sfund/prg. November.

1

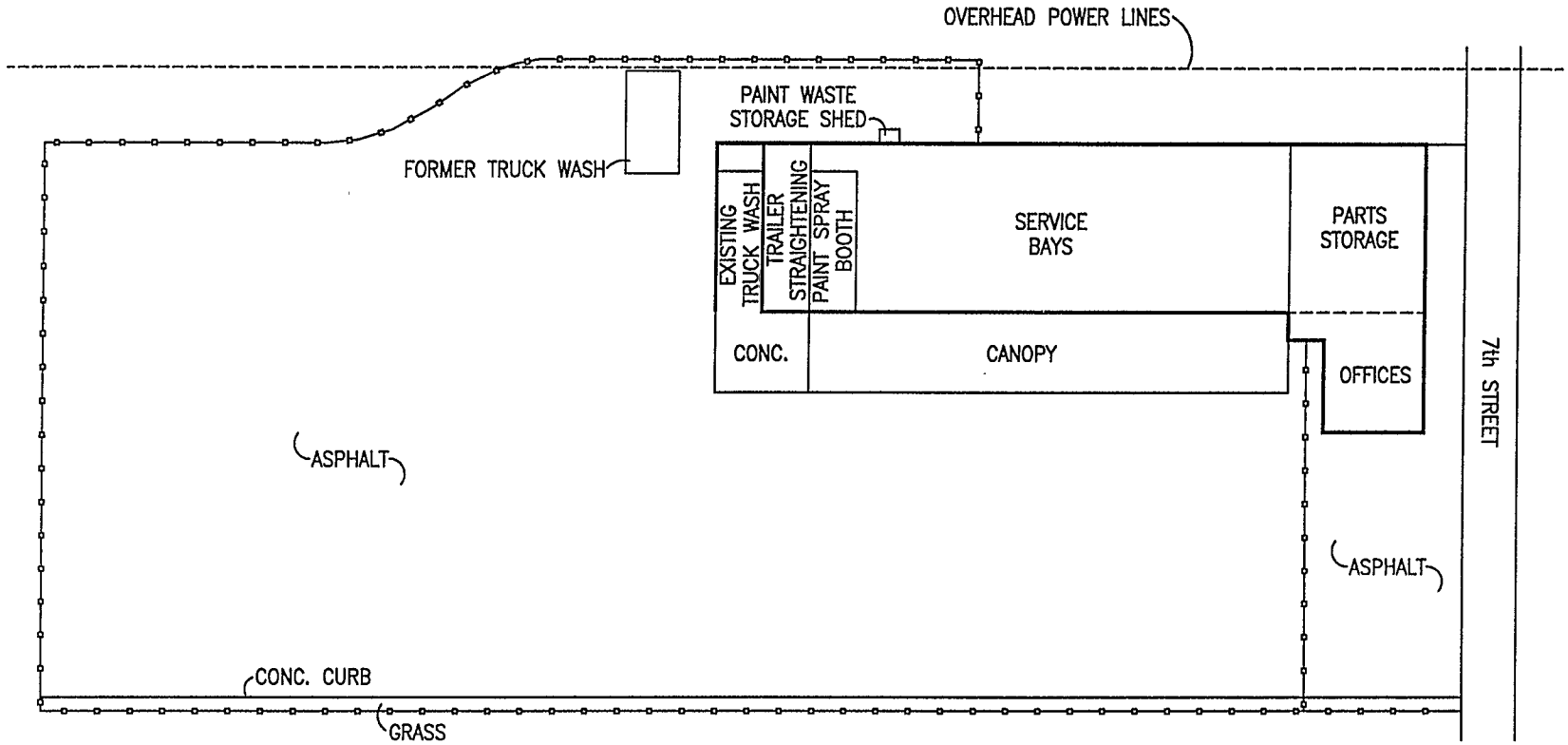


Source: United States Geological Survey (USGS) Arizona Quadrangle, Topographic Map, Phoenix, 1952, Photorevised 1982

CERAMIDA Environmental, Inc.

Figure 1
Vicinity Map
Fruehauf Trailer Facility
902 South 7th Street
Phoenix, Arizona

Prepared by :	*BEH*
Approved by :	
Date :	06/08/01
Project Number :	2961A



LEGEND

- Fence Line
- Monitoring Well Location
- MW-A Monitoring Well ID

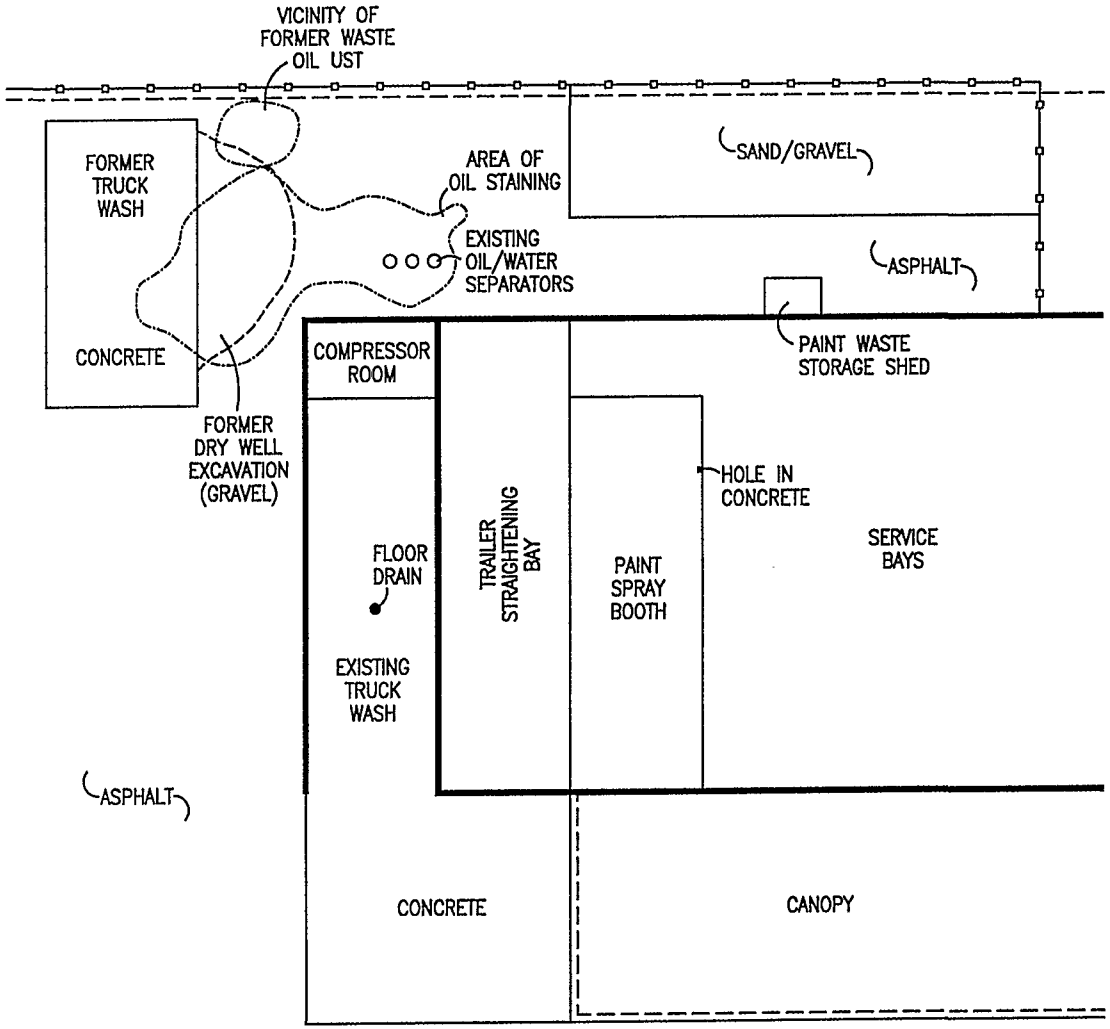
0' 40' 80'

Approximate Scale

KERAMIDA Environmental, Inc.

Figure 2
Site Map
Fruehauf Trailer Facility
902 South 7th Street
Phoenix, Arizona

DRAWN BY:	MJ
APPROVED BY:	
FILE #:	2961B
DATE DRAWN:	12.12.01
DATE APPROVED:	



LEGEND

Fence Line

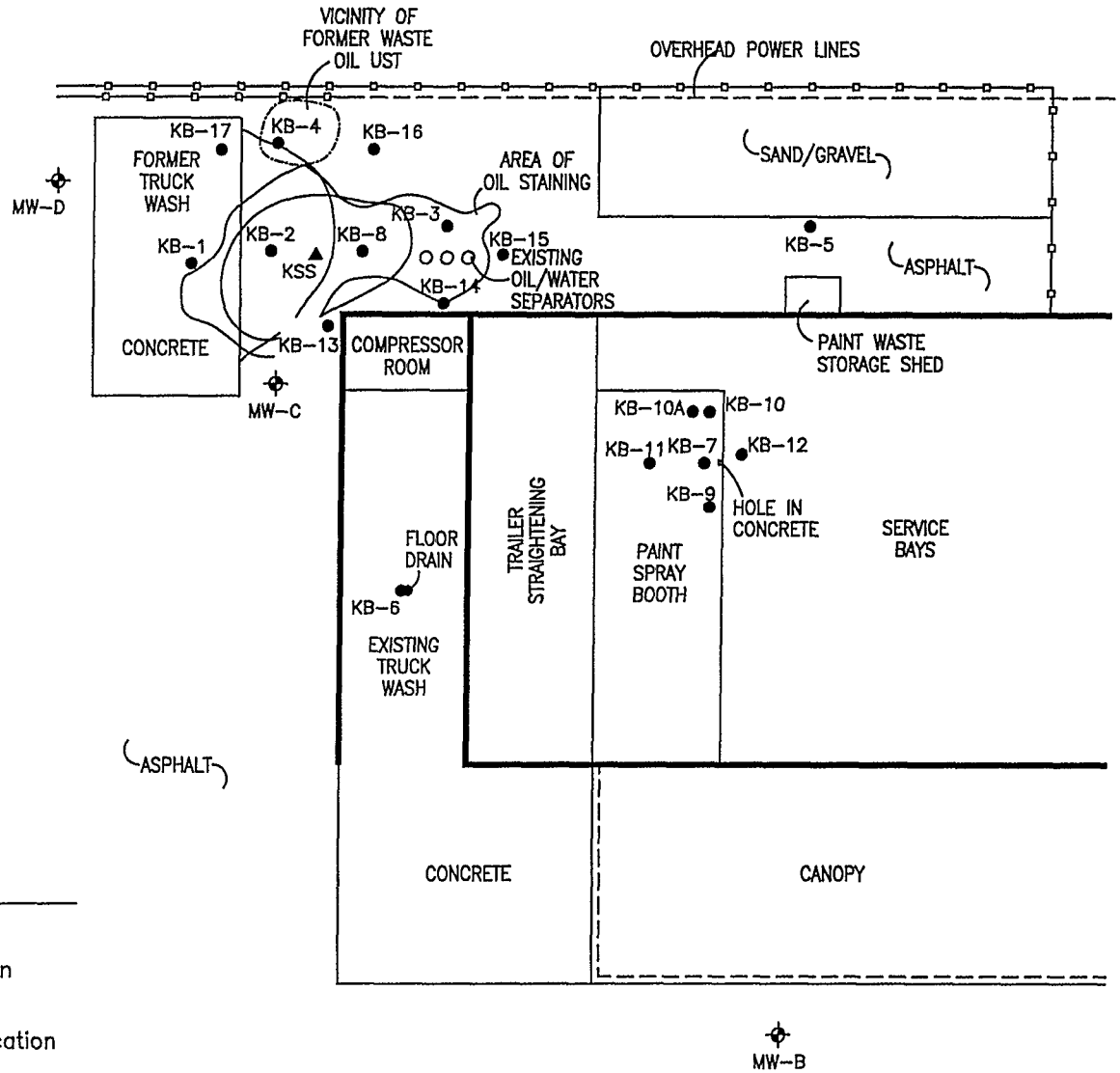
0' 15' 30'

Approximate Scale

KERAMIDA Environmental, Inc.

Figure 3
Site Detail Map
Fruehauf Trailer Facility
902 South 7th Street
Phoenix, Arizona

DRAWN BY: CADD Research, Inc.
APPROVED BY:
FILE #: 2961A
DATE DRAWN: 6/06/01
DATE APPROVED:



LEGEND

- Fence Line
- ● Soil Boring Location
- KB-1 Soil Boring ID
- ⌖ Monitoring Well Location
- MW-A Monitoring Well ID
- ▲ Surface Soil Sample (0–6")
- KSS Surface Soil ID

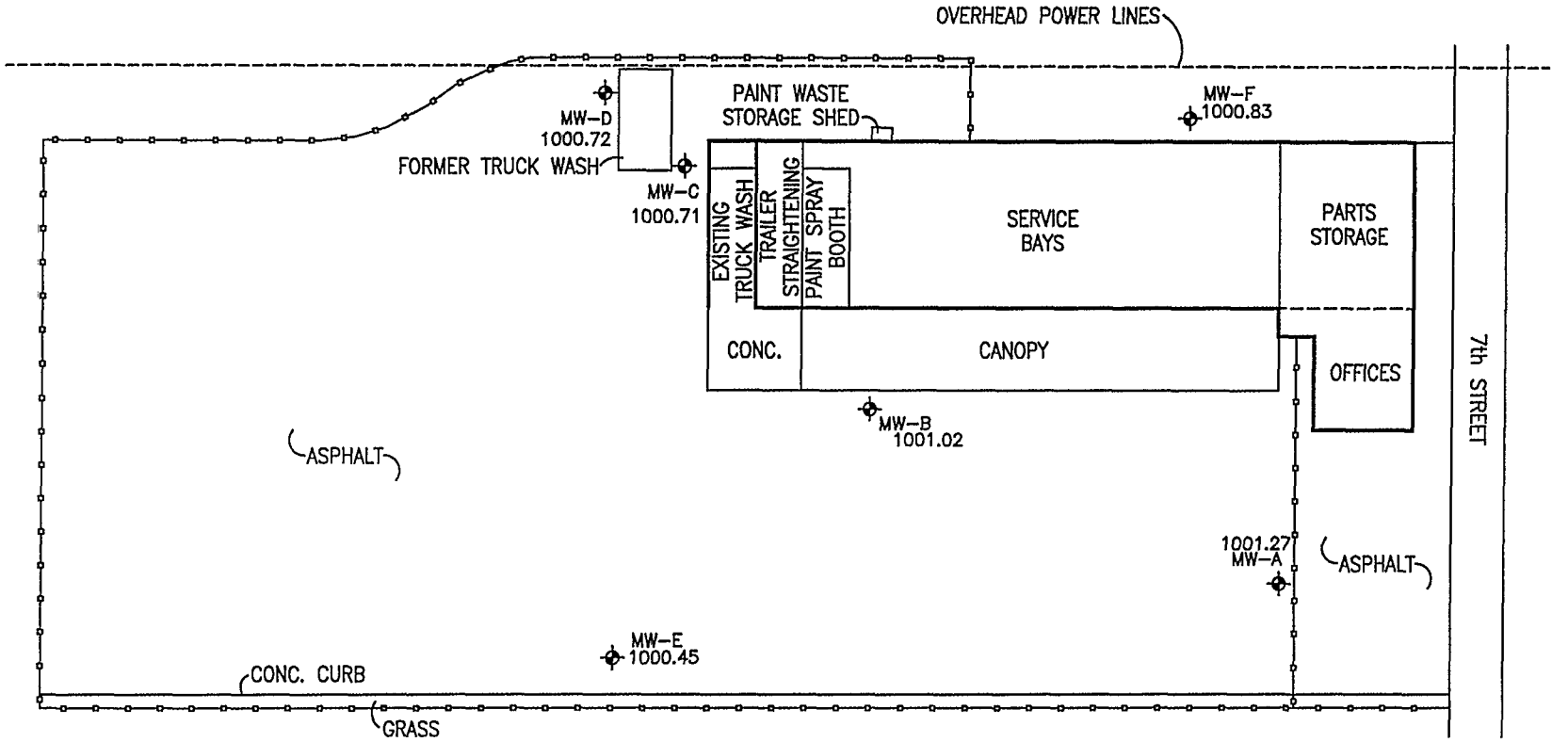
0' 15' 30'

Approximate Scale

KERAMIDA Environmental, Inc.

Figure 4
Soil Boring Location Map
Fruehauf Trailer Facility
902 South 7th Street
Phoenix, Arizona

DRAWN BY:	MJ
APPROVED BY:	
FILE #:	2961B
DATE DRAWN:	11.30.01
DATE APPROVED:	



LEGEND

Fence Line

Monitoring Well Location

MW-A Monitoring Well ID

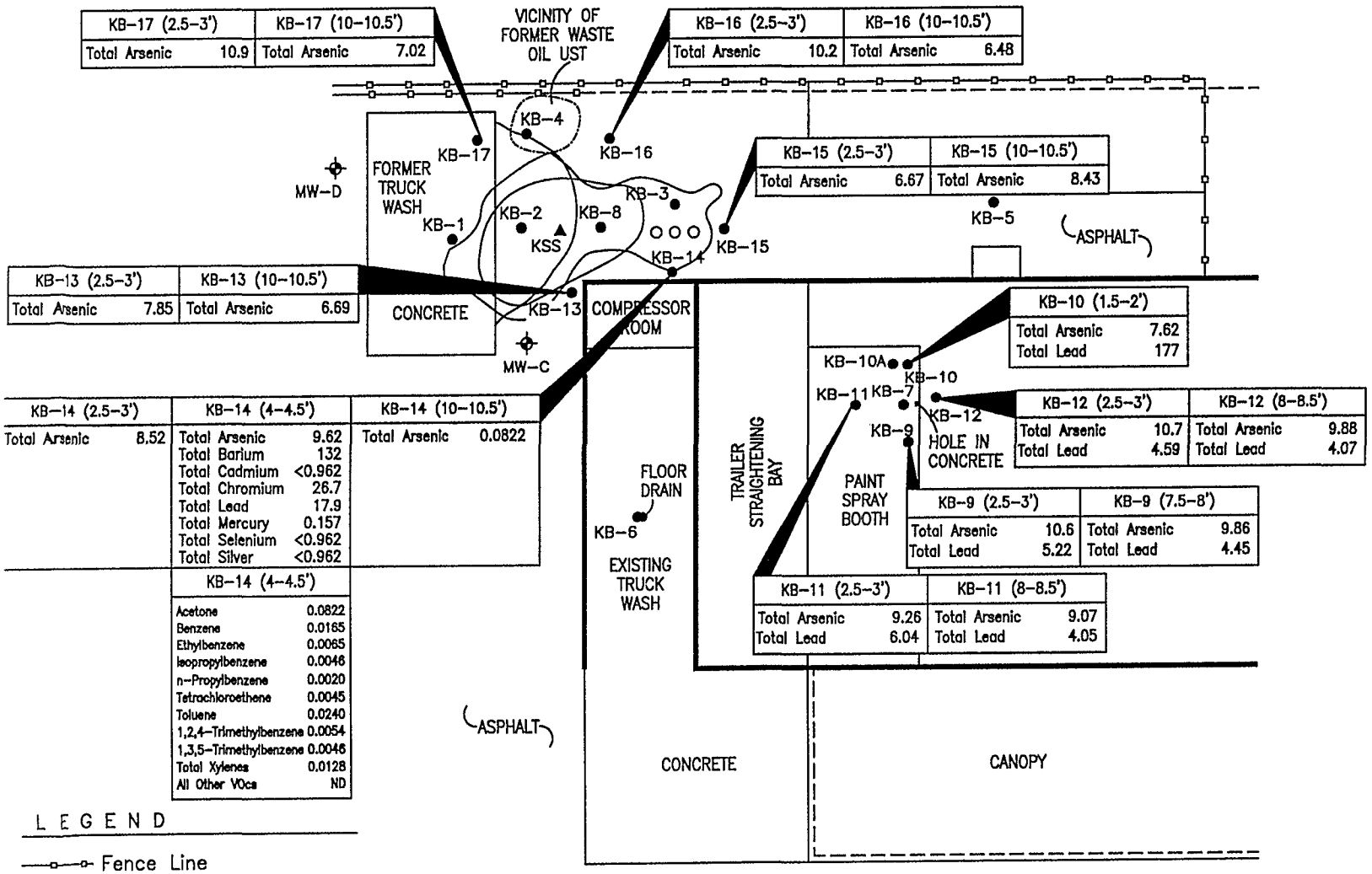
0' 40' 80'

Approximate Scale

KERAMIDA Environmental, Inc.

Figure 5
Monitoring Well Location Map
Fruehauf Trailer Facility
902 South 7th Street
Phoenix, Arizona

DRAWN BY:	MJ
APPROVED BY:	
FILE #:	2961B
DATE DRAWN:	12.12.01
DATE APPROVED:	

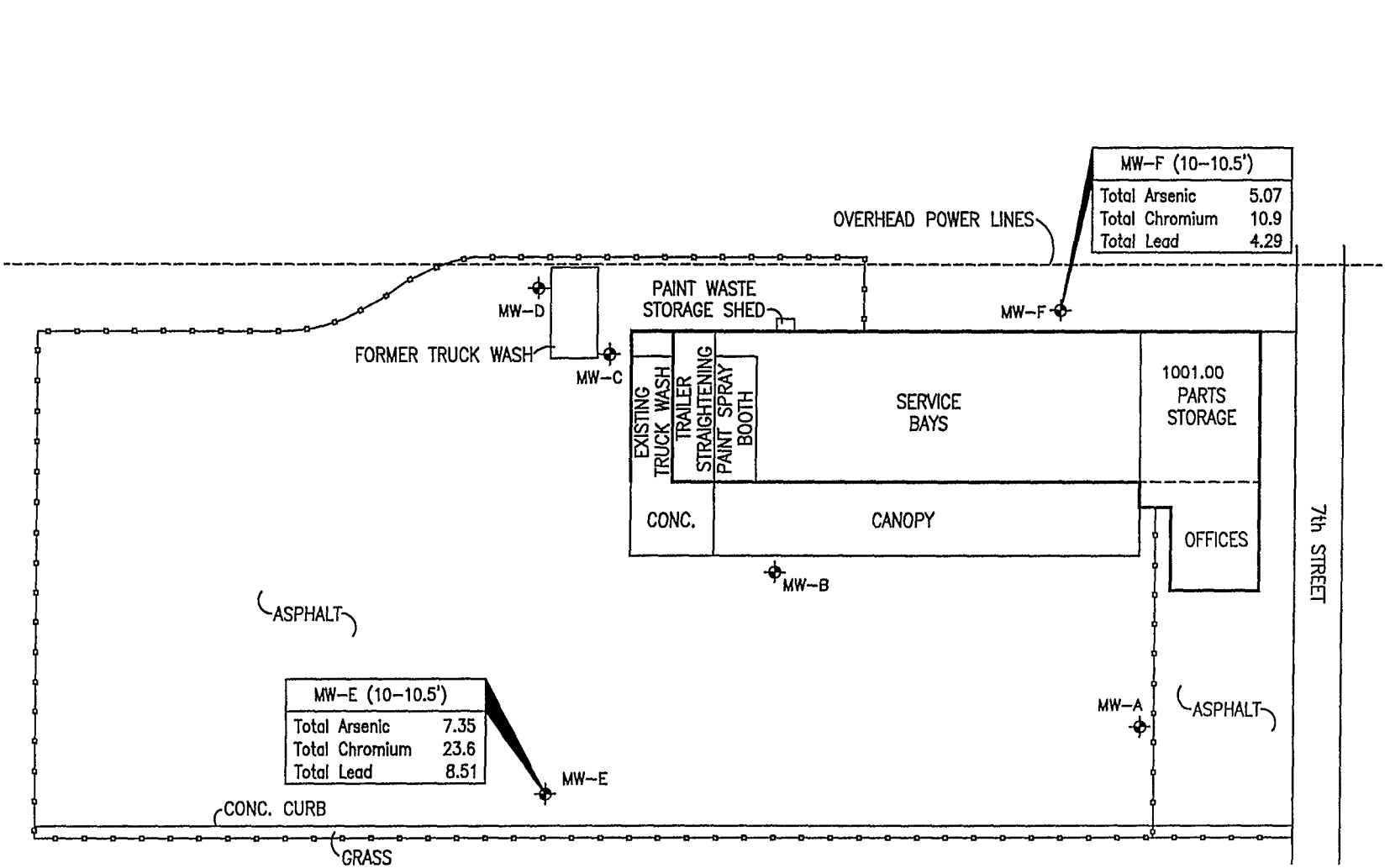


Note: Results are presented in milligrams per kilogram (mg/kg)

KERAMIDA Environmental, Inc.

Figure 6A
Soil Analytical Results Map (mg/kg)
Fruehauf Trailer Facility
902 South 7th Street
Phoenix, Arizona

DRAWN BY: MJ
APPROVED BY:
FILE #: 2961B
DATE DRAWN: 12.12.01
DATE APPROVED:



LEGEND

Fence Line

Monitoring Well Location

MW-A Monitoring Well ID

Note: results presented in milligrams per kilogram (mg/kg)

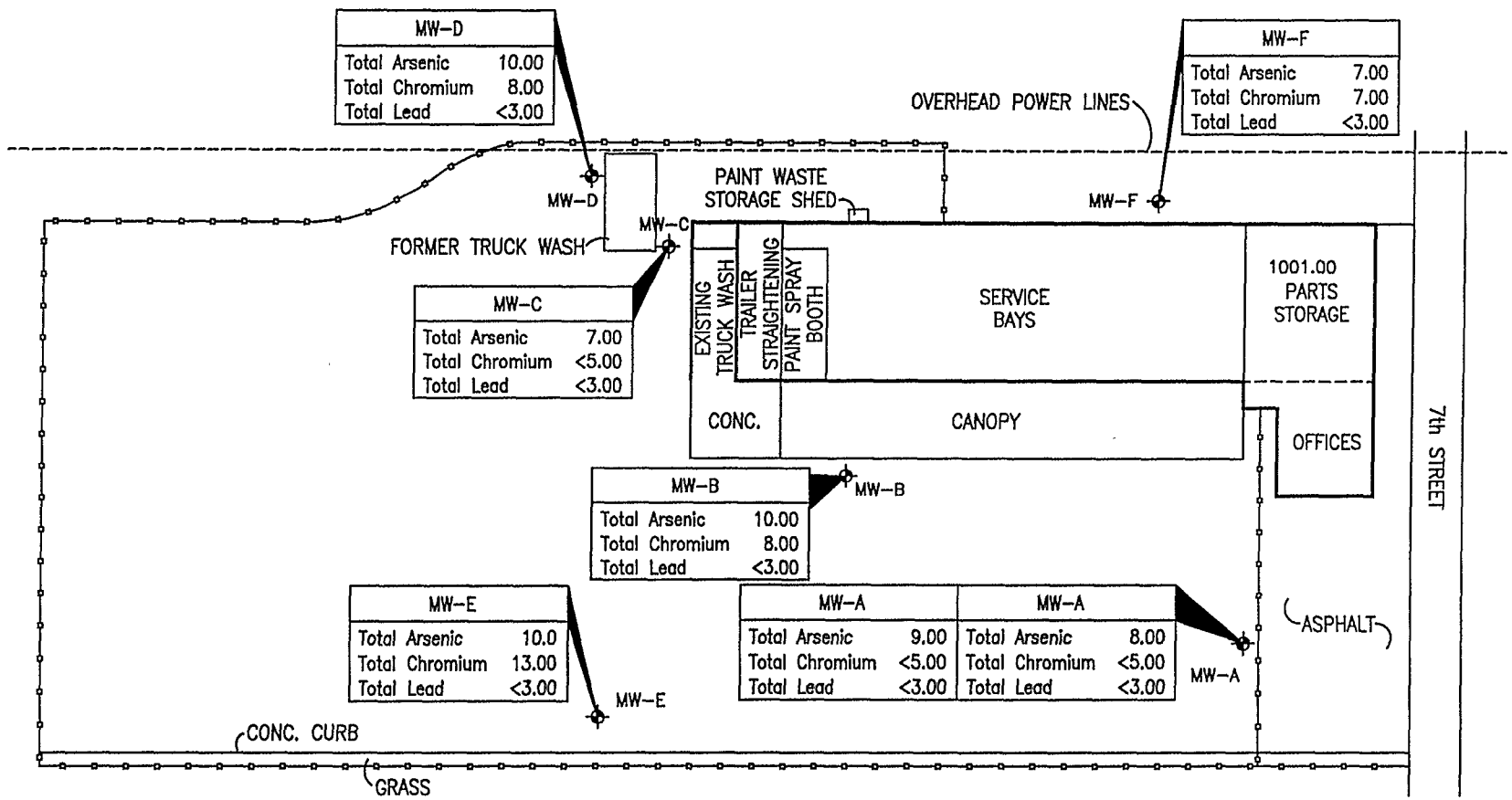
0' 40' 80'

Approximate Scale

KERAMIDA Environmental, Inc.

Figure 6b
Soil Analytical Results Map (mg/kg)
Fruehauf Trailer Facility
902 South 7th Street
Phoenix, Arizona

DRAWN BY:	MJ
APPROVED BY:	
FILE #:	2961B
DATE DRAWN:	12.12.01
DATE APPROVED:	



LEGEND

Fence Line

Monitoring Well Location

MW-A Monitoring Well ID

Note: results presented in micrograms per liter (ug/L)

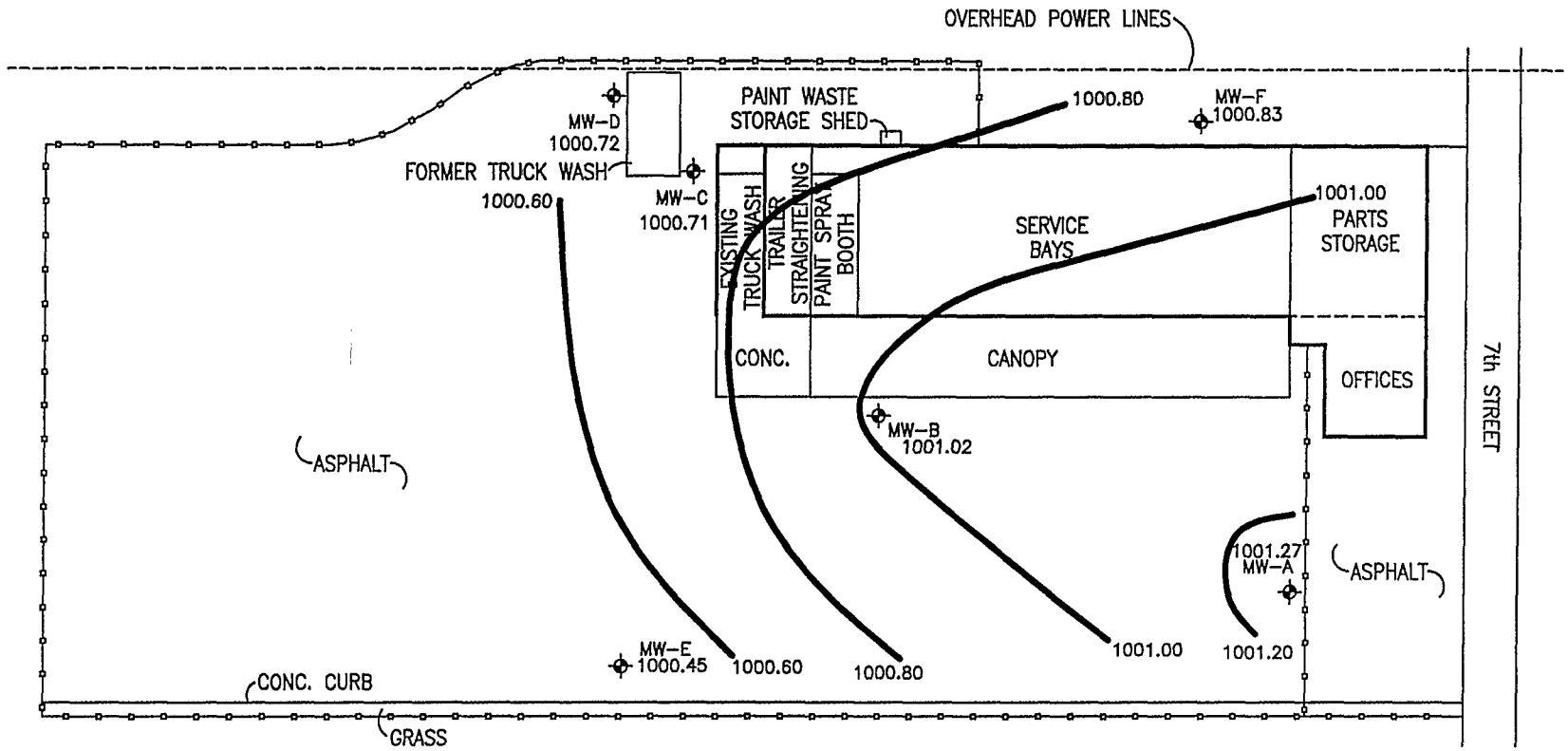
0' 40' 80'

Approximate Scale

CERAMIDA Environmental, Inc.

Figure 7
Groundwater Analytical Results Map (ug/L)
Fruehauf Trailer Facility
902 South 7th Street
Phoenix, Arizona

DRAWN BY: MJ
APPROVED BY:
FILE #: 2961B
DATE DRAWN: 12.12.01
DATE APPROVED:



LEGEND

Fence Line

Monitoring Well Location

MW-A Monitoring Well ID

0' 40' 80'

Approximate Scale

KERAMIDA Environmental, Inc.

Figure 8
Potentiometric Surface Map
Fruehauf Trailer Facility
902 South 7th Street
Phoenix, Arizona

DRAWN BY:	MJ
APPROVED BY:	
FILE #:	2961B
DATE DRAWN:	12.12.01
DATE APPROVED:	

2

STANDARD OPERATING PROCEDURES
FOR
FIELD SCREENING OF SOIL SAMPLES

REVISED: November 13, 2001

PREPARED BY:

KERAMIDA ENVIRONMENTAL, INC.
330 North College Avenue
Indianapolis, Indiana 46202
317/685-6600

FIELD SCREENING OF SOIL SAMPLES

The soil samples collected for field screening and possible laboratory consideration should be classified in the field for lithology, moisture content, odor, staining and any other significant characteristics upon collection. Once the sample is classified, split the sample longitudinally into two equal portions: place one portion of the sample into a new, clean, sealed, and labeled plastic bag for field screening; place the other portion of the sample into a new, clean, sealed, and labeled sample container obtained from the laboratory.

Immediately place the laboratory container sample on ice in a cooler. Allow the field screening sample to sit for 10 to 15 minutes to allow organic vapors to equilibrate in the air space of the bag. All field screening samples must be treated identically to ensure accurate comparisons. For example, if one field screening sample is placed in the sun to warm then all are placed in the sun.

The samples are field screened using a photoionization detector (PID) or a flame-ionization detector (FID) depending on the suspected contaminants. FID instruments are more sensitive to the presence of heavier organic compounds such a polynuclear aromatic hydrocarbons. The selected instrument is properly calibrated in accordance with the methods presented in its respective operations manual. At a minimum, the instrument should be "bump checked" once per day. The samples are field screened by inserting the PID or FID's probe into the plastic bag, while the bag remains closed. The readings are recorded in the field log book.

At the completion of the field screening process, determine which, if any, of the sample intervals will be sent to the laboratory for analysis. All samples that are not sent to the laboratory will be disposed of in accordance with the site-specific SAP or QAPP.

The samples selected for laboratory analyses should remain in the cooler, maintaining a temperature of 4°C, until delivery to the selected laboratory with all proper chain-of-custody documentation. Detailed project notes are entered in the field logbook per KERAMIDA's Field Logbook SOP.

STANDARD OPERATING PROCEDURES
FOR
DECONTAMINATION OF DRILLING EQUIPMENT

REVISED: November 26, 2001

PREPARED BY:

KERAMIDA ENVIRONMENTAL, INC.
330 North College Avenue
Indianapolis, Indiana 46202
317/685-6600

MATERIALS

Canvas or plastic tarp(s)
4-mil polyethylene liner
Pressurized steam cleaner (steam jenny)
55-gallon steel drums with bung (closed) tops
55-gallon steel drums with open tops, rings, lids, ring-nut and ring-bolt
Hammer, nails, duct tape, extension cord(s)
Wood boards - 4"x4", 2"x4" or 2"x6"
Portable wet/dry vacuum
Shovel, funnel, squeegee

CONSTRUCTION OF DECONTAMINATION BASIN

1. Place tarp(s) on flat, firm surface in an accessible area of site away from areas of surface contamination. Use enough tarp to accommodate the rear of the drilling rig and hollow stem augers and to prevent overspray from the hot water pressure washer from falling onto adjacent soil surfaces. If necessary, place more than one tarp on the ground. Overlap tarp edges and secure with duct tape. Area should be slightly inclined toward one corner so that the decontamination water will pool in one corner for easier pumping to the containment drums.

2. Place a layer of polyethylene liner on top of the tarp(s). If one sheet cannot completely cover the tarp use another one. Overlap the sheets at the edges and secure with duct tape.

3. Place 4"x4" boards along the tarp's outer edges to form a square or rectangular basin. Roll each 4"x4" board toward the center so the tarp and polyethylene wrap completely around it at least once. Secure the tarp and liner to the top of the boards with nails, tacks or heavy-duty staples.

4. Place the drums, steam cleaner, and wet/dry vacuum adjacent to one side of the basin on the outside.

DECONTAMINATION PROCEDURE

1. Unload drilling equipment from the drilling rig and place in one side of the basin.

2. Activate the hot water cleaner. Personnel performing hot water cleaning should don rubber boots, Tyvek or Saranex suites, rubber gloves, and a hard hat with a face shield for splash protection.

3. Clean each piece of drilling equipment, including auger bits, drill bits, portable power augers, hollow stem augers, auger holders, split spoons, rod lifters, and drilling rods, by holding the nozzle of the steam cleaner a few inches away. Wood 2"x4"s can be placed on the basin floor to prevent drilling equipment from coming into contact with solids that will build up beneath it as it is being steam cleaned.

4. After each piece is cleaned, place it on rows of 2"x4" boards in a separate area of the basin.

5. If space allows, position the rear of the drill rig in the basin and use the steam cleaner to clean off rig surfaces and the hoist and derrick as needed.

6. Reload drilling equipment onto rig and drive it out of the basin.

7. Vacuum up liquids on the basin floor with the flexible hose of the portable wet/dry vacuum. A long-handled squeegee can be used to pool liquid together to aid vacuuming.

8. Remove accumulated solids from the basin floor with a shovel and place in open-top drums. During removal of the accumulated solids, be careful so that the polyethylene liner is not torn, cut, or punctured with the shovel.

9. Empty the canister of the wet/dry vacuum into a bung-top drum using a funnel.

10. Secure and tighten tops of drums and apply appropriate hazardous waste or nonhazardous waste labels to each drum. The accumulation date should be placed on each drum. An inventory of all on-site drums should be entered into the field log book by field personnel. All drums should be marked, numbered, or labeled with an indelible marker for future reference.

11. On completion of on-site work, the property labeled and inventoried drums should be stored until disposal is arranged.

12. Materials used in construction of the decontamination basin or pad should be disassembled and placed into a properly labeled drum for future disposal.

13. All drilling equipment and the drill rig should be decontaminated upon arrival on-site and before the start of any drilling activity. Upon completion of site work, the drilling equipment and rig should be decontaminated by the drilling contractor before departure from the site.

STANDARD OPERATING PROCEDURES
FOR
DECONTAMINATION OF SAMPLING EQUIPMENT

REVISED: September 21, 2001

PREPARED BY:

KERAMIDA ENVIRONMENTAL, INC.
330 North College Avenue
Indianapolis, Indiana 46202
317/685-6600

MATERIALS

Tap water
Deionized or distilled water
10% nitric acid solution (mixed in squirt bottle)
Scrub brushes (short- and long-handled)
buckets or trash cans
Nonphosphate detergent (Liquinox or Alquinox)
Pesticide-grade solvent (isopropanol, acetone, or hexane in spray bottle)
Aluminum foil
Polyethylene plastic sheeting, plastic garbage bags, and Ziploc® plastic bags
Paper towels or Kimwipes®
Nalgene squirt bottles
Wire brush
Duct tape
Personal protective equipment (e.g., nitrile gloves, eye protection, skin protection)

Note: All sampling equipment must be decontaminated before shipment to the office.

LABORATORY DECONTAMINATION PROCEDURES

Equipment Used for Sampling Environmental Media Containing Organic or Inorganic Compounds and Metals.

1. Place polyethylene sheeting on firm, flat surface to collect spillage during decontamination. Mix solution of nonphosphate detergent and tap water in bucket.

2. Wear appropriate personal protective equipment to prevent exposure to skin, eyes, and respiratory system.

3. Wipe contaminated sampling equipment with paper towels to remove residual soils or gross contamination. Heavy oils or grease may be removed with paper towels soaked with solvent (acetone or methanol).

4. Disassemble sampling equipment (e.g., split-spoon samplers, bailers). Wash equipment thoroughly with nonphosphate soap and hot tap water solution. Teflon bailers must be disassembled and the inside washed with long-handled bottle brush or short-handled brush pulled through the bailer with rope.

5. Rinse the equipment with hot tap water.

6. If the equipment will be used to collect samples for metals analysis, follow tap water rinse with a 10% nitric acid solution rinse. Metal equipment (e.g., bucket augers) should not be rinsed with nitric acid solution because of problems with oxidizing the metal surfaces. Collect the nitric acid rinse in a separate bucket. Rinse the equipment with tap water.

7. Thoroughly rinse the equipment with deionized water.

8. Spray the equipment with solvents (acetone or methanol followed by hexane) and allow to completely air dry. The solvent equipment rinse must be collected in a separate bucket.

9. Rinse the equipment with analyte-free water using at least five times the volume of solvent used in the previous step.

10. After the equipment has been allowed to completely air dry, each piece must be individually wrapped with aluminum foil (shiny side out), and then wrapped in plastic. **Note: Decontamination solvents may introduce contaminants to environmental samples.** It is very important to ensure that the equipment has completely dried before wrapping the equipment for storage.

11. Label each piece of equipment with the date of decontamination, the initials of decontamination personnel, and the type of decontamination solutions used. This will allow other personnel to select the correct piece of sampling equipment for future use.

FIELD DECONTAMINATION

1. Field sampling equipment should be decontaminated prior to and after each use to minimize the potential for cross-contamination.

2. Place polyethylene sheeting on firm, flat surface (if available) to collect spillage during decontamination (when required). Mix solution of liquinox and distilled water in bucket. A liquinox and tap water solution can be used for push-probe sampling equipment.

3. Wear appropriate personal protective equipment to prevent exposure to skin, eyes, and respiratory system.

4. Wipe contaminated sampling equipment with paper towels to remove residual soils or gross contamination. If necessary, heavy oils or grease may be removed with paper towels soaked with solvent (acetone or methanol).

5. Disassemble sampling equipment (e.g., push-probe samplers, bailers). Wash equipment thoroughly with nonphosphate soap and distilled water (the water for push-probe

equipment) solution. Teflon bailers must be disassembled and the inside washed with long-handled bottle brush or short-handled brush pulled through the bailer with rope.

6. Double rinse the equipment with distilled water (tap water for push-probe equipment).

7. Note any discrepancies from standard decontamination procedures in the project field notebook.

DISPOSAL OF DECONTAMINATION SOLUTIONS

Laboratory Solutions

Decontamination solutions (e.g., washwater, nitric acid rinsewater, and solvent rinsewater) must be handled appropriately. Nonphosphate wash water can be disposed of directly to the municipal sanitary sewer. Nitric acid rinsewater solution must be neutralized with baking soda, diluted to normal pH (i.e., 6.0 to 8.0) and disposed of in the sanitary sewer. Solvent rinsewater should be negligible because of the use of small amounts. Solvents should be allowed to evaporate in a well-ventilated area or under a laboratory hood. Paper towels soaked with solvent should be allowed to dry and be disposed of in a general waste container.

Field Solutions

Field decontamination presents unique problems in disposal of decontamination solutions. Nonphosphate wash water must be containerized and properly disposed of in the facility wastewater treatment system or otherwise in accordance with state and federal laws. The generation of solvent rinsewaters should be minimal in field decontamination. Solvents should be collected in separate buckets and allowed to evaporate.

Paper towels soaked with cleaning solvent should be allowed to air dry and be disposed of with solid waste. Under no circumstances should any decontamination solution be disposed of by pouring it on soil surfaces.

STANDARD OPERATING PROCEDURES
FOR
DECONTAMINATION OF WATER LEVEL INDICATORS

REVISED: September 21, 2001

PREPARED BY:

KERAMIDA ENVIRONMENTAL, INC.
330 North College Avenue
Indianapolis, Indiana 46202
317/685-6600

MATERIALS

Distilled water
Paper towels
(2) 5-gallon buckets
isopropanol
non-phosphate detergent

DECONTAMINATION PROCEDURE

Field sampling equipment should be decontaminated prior to and after each use to minimize the potential for cross-contamination.

1. Mix solution of nonphosphatic detergent and distilled water in a one bucket and fill a second bucket with distilled water.

2. Wipe tape and probe with a wet paper towel to remove gross contamination. If necessary use solvents (isopropanol) to remove gross contamination.

3. Completely submerge the tape and probe in the nonphosphatic detergent and distilled water solution. Aggegate for best results. If necessary, repeat the procedure or replace the paper towels as they become soiled.

4. Remove the tape and probe and submerge into the second bucket of distilled water. Wind tape directly on the spool from the distilled water.

5. If persistent stains or oily films are present on the tape, apply pesticide-grade isopropanol to a paper towel and wipe tape until clean. Because solvents can damage the water level indicator tape, the type must be thoroughly rinsed with deionized water and wiped dry with a clean paper towel. Allow tape to completely air dry. If step 5 is necessary, repeat steps 1 through 4. If step 5 is necessary, report steps 1 through 4.

6. Place water level indicator in the clean carrying case or in a clean plastic bag to prevent contamination during transportation to the next location.

7. Place used towels in the designated field trash container for proper disposal.

\kei\forms\sop\dowli.doc

STANDARD OPERATING PROCEDURES
FOR
MONITORING WELL SAMPLING

REVISED: November 26, 2001

PREPARED BY:

KERAMIDA ENVIRONMENTAL, INC.
330 North College Avenue
Indianapolis, Indiana 46202
317/685-6600

MATERIALS LIST

Sampling notebook
Groundwater monitoring data log forms
Well key
Adjustable wrench or manhole wrench
Plastic sheeting
Photoionization detector (PID) or Flame-ionization detector (FID)
Flashlight or mirror
Electronic water level indicator and oil/water interface probe
Bailer(s)
Pump (for purging), polyethylene tubing, and battery
Buckets
Nylon or polyethylene rope or monofilament
pH, conductivity, and temperature meters
Sample bottles, labels, indelible markers, and clear tape
Ice and coolers
Geopump
0.45-micron filters (for dissolved metals analysis)
Teflon and polyethylene tubing
Pocketknife or scissors
Proper personal protective equipment (PPE)
Nitrile gloves
Vinyl gloves
Decontamination supplies (Deionized water, Alconox, brushes, bucket, and paper towels)
Toolbox (Wrenches, screwdrivers, and hammer)

SAMPLE COLLECTION

1. Verify locations of wells and parameters to be analyzed as specified in the sampling plan.

2. Prepare field log book in accordance with SOP for Note Taking and Log Book Entries, and include a description of site, weather, participants, and other relevant observations.

3. Complete the groundwater monitoring data log (Figure 1) for each monitoring well or sampling point.

4. Using Level C protection, unless historical data allow downgrading to Level D protection equipment, survey around the base of the well and wellhead with a PID; remove well cap, place probe of PID in wellhead, and record PID response in field book. Survey the breathing zone to ensure that the level of personal protection is appropriate. Note observations in the groundwater monitoring data log.

5. Inspect water surface in the well, using a flashlight if necessary. Note any observable floating contaminants and record observations in the field book.

6. Measure and record the extent of protrusion of the top of the well casing above the ground. If well is a flush mount, measure and record the depth of the top of the well casing below the ground. Measure the casing inside diameter (CID) and record in inches.

WATER LEVEL MEASURMENTS

7. Liquid-level measurements and well sampling should start with the upgradient (or clean wells) and proceed downgradient (in the order from least to most contaminated) for the remaining monitoring wells.

8. From the top of the casing, measure the depth (in feet) to water (DTW) with an electronic water level indicator and record on the groundwater monitoring data log. Static water level measurements must be recorded from the surveyor's mark at the top of the casing, if present. If no mark is present, mark a location with a metal file or indelible marker on the casing for future reference. Measure and record in feet the total depth (TD) to the bottom of the well (TD). All well depth measurements should be taken to the nearest hundredth (0.01) of a foot.

9. Check for the presence and thickness of light non-aqueous phase liquids (LNAPLs) and dense non-aqueous phase liquids (DNAPLs) using a free product/water interface probe in accordance with the RCRA Groundwater Monitoring Technical Enforcement Guidance Document (September 1986).

10. Calculate the volume of water in gallons in one well casing:

    For a 2-inch well:

    vol = [(TD - DTW) * 0.16]

    For a 4-inch well:

    vol = [(TD - DTW) * 0.65]

    For a 6-inch well:

    vol = [(TD - DTW) * 1.47]

    or calculate the volume using the formula:

    $vol = 0.04\ d^2h$

    where:

    h = TD – DTW in feet

    d = diameter of well in inches

WELL PURGING

11. Remove at least three well volumes to purge the well before sampling. To determine the number of gallons required to purge the well, multiply the number of gallons in one well volume (calculations above) by three. Record the minimum purge volume on the groundwater monitoring data log.

12. Assess for the presence of LNAPL by carefully lowering the bailer into the well taking care to prevent the bailer from sinking below the water surface. Remove bailer and inspect it for LNAPL. If required by the sampling plan, secure samples of the LNAPL for analysis and put the samples on ice.

13. Continue bailing at a uniform rate. Each time, empty the bailer into a calibrated container for measurement. After removing the minimum purge volume (at least three well volumes), dispose of the contents in an appropriate container for later disposal in compliance with federal and state laws.

14. A pump may be used in place of a bailer to purge wells when the situation warrants (see Table 1).

Table 4-1
Well Evacuation Equipment and its Uses

Method	Best Use
Peristaltic Pump (e.g., Geopump)	Water table within suction lift. Used on wells that require less than approximately 4 gallons of water for adequate evacuation. Good for slow recovery wells. Not recommended for volatile organic compound analysis.
Centrifugal Pump	Water table within suction lift on wells that have moderate to high recovery rates. Cannot be used for sampling.
Bailer (Teflon, PVC, polyethylene, or stainless steel)	On slow recovery wells and on wells where access is difficult.
4-inch Electric Submersible Pump	On wells where pump is permanently installed or deep, large diameter wells where use of low yield pumps not practical.
Bladder Type (e.g., Geotech, Well Wizard)	May be used to sample for volatile organic compound analysis. Water table below suction lift. Used when water level recovery rates are moderate to high.

15. If a well is bailed dry before removing three well volumes, allow well to recharge and proceed to sample. Wells will not be bailed dry if doing so will cause recharge water to enter the well in a cascading fashion, but instead will be bailed at a rate which will minimize the agitation of recharged water. If full recovery exceeds 2 hours, sample as soon as sufficient volume is available.

SAMPLE COLLECTION

16. All samples should be collected using a bailer unless an alternate method (i.e., bladder pump) is specified in the SAP or QAPP.

17. While collecting samples, lower the bailer slowly to avoid agitating the water. Sample first for VOCs, taking care to remove all air bubbles from the vial and minimize agitation. Collect remaining organic samples then inorganic samples.

19. The recommended order of sample collection is as follows:

    In-situ measurements (e.g., temperature, pH, specific conductance)
    Field test kits (e.g., ferrous iron, hydrogen sulfide)
    Volatile organic analytes (VOA)
    Total organic halides (TOX)
    Total organic carbon (TOC)
    Semi-volatile organic analytes (SVOA)
    Total metals
    Dissolved metals
    Phenols
    Cyanide
    Sulfate and chloride
    Turbidity
    Nitrate and ammonia
    Radionuclides

20. Affix a sample label to each sample container and complete all required information (sample no., date, time, sampler's initials, analysis, preservatives). Record sample number, well number, date, time, and the sampler's initials on the sample tracking form and in the field book. Complete chain-of-custody forms with appropriate sampling information.

21. Inspect the well for soundness of protective casing and surface ground seal. Record water color, suspended particulates, discoloration of casing, casing diameter and material, any unusual occurrences during sampling, and any pertinent weather details on the groundwater monitoring data log.

22. Thoroughly decontaminate all non-dedicated and non-disposable equipment using the SOP for Decontamination of Sampling Equipment. Discard used bailer cord, disposable bailer, plastic sheeting, towels, gloves, etc., in a plastic bag.

FILTERING OF METAL SAMPLES

A. Assemble Geopump peristaltic pump per operating manual instructions, which accompany pump.

B. Silicon tubing is to be used only through the head of the peristaltic pump.

C. At the pump intake, attach polyethylene tubing to the silicon tubing. The polyethylene tubing should be long enough to extend to the bottom of the bailer. At the pump discharge end of the pump, attach the 0.45-micron filter to the Silicon tubing.

D. Turn on the pump and draw the water from the bailer, through the pump and filter, and into the sample container.

E. Disassemble the pump head and discard the polyethylene and silicon tubing in a plastic bag.

STANDARD OPERATING PROCEDURES
FOR
SAMPLE CONTAINER, PRESERVATIVES, & HOLDING TIMES

REVISED: November 26, 2001

PREPARED BY:

KERAMIDA ENVIRONMENTAL, INC.
330 North College Avenue
Indianapolis, Indiana 46202
317/685-6600

SCOPE

This operating procedure describes the ways and means of selecting the appropriate sampling containers for environmental sampling.

APPLICATION

The purpose of this procedure is to ensure that sample volumes and preservatives are sufficient for analytical services required under EPA-approved protocols.

MATERIALS

Sample containers
Sample container labels
Indelible (waterproof) markers or pens
Clear tape
Ice and cooler

PROCEDURES

1. Refer to Table 1 for minimum sample volume and glassware types required for sampling a particular matrix and compound class.

2. Select the appropriate glassware (i.e., bottles or jars) from those provided by the analytical laboratory. Verify that the analytical laboratory has provided the correct number of sample containers and the correct preservatives for the project per the sampling plan requirements.

3. The analytical laboratory should always provide extra sample containers for all analytical parameters in case of breakage or other problems encountered in the field. This is particularly true for VOC sample containers (i.e., 40-ml vials).

4. Report any discrepancies or non-receipt of specific types of sample containers to the Quality Assurance Officer immediately. Arrangements should be made with the laboratory to immediately ship the missing or additional sampling containers to the project site.

5. Apply sample labels to the sample containers.

6. Information on the sample labels should contain the following data:

Site/Project name
Project/Task number
Unique sample identification number
Sample date
Time of sample collection (military system, e.g., 0000 to 2400 hours)
Analytical parameters
Preservative
Sampling personnel

Table 1
Sample Containers, Preservatives, and Holding Times

Analytical Parameter	Matrix	Required Volume (mls)	Sampling Container Size and Type	Preservatives	Maximum Holding Time
Bacteria:					
Coliform, fecal		100	Sterile	Cool, 4 C	6 hours
Inorganics:					
Acidity		100	P, G	Cool, 4 C	14 days
Alkalinity		100	P, G	Cool, 4 C	14 days
Ammonia		500	P, G	4 C, H2SO4 pH <2	28 days
BOC		1000	P, G	Cool, 4 C	48 hours
CBOD		1000	P, G	Cool, 4 C	48 hours
COD		50	P, G	4 C, H2SO4 pH <2	28 days
Chloride		100	P, G	Cool, 4 C	28 days
Chlorine, Residual**		50	P, G	Cool, 4 C	24 hours
Color		100	P, G	Cool, 4 C	48 hours
Cyanide, Total & Amen.		1000	P, G	4 C, NaOH pH >12	14 days
Fluoride		100	P only	Cool, 4 C	28 days
Hardness, Total & Ca		50	P, G	HNO3 pH <2	6 months
pH		100	P, G	Cool, 4 C	24 hours
TKN		200	P, G	4 C, H2SO4 pH <2	28 days
Nitrate		50	P, G	Cool, 4 C	48 hours
Nitrate+Nitrite		50	P, G	4 C, H2SO4 pH <2	28 days
Nitrite		50	P, G	Cool, 4 C	48 hours
Odor		500	G only	Cool, 4 C	24 hours
Oil & Grease		1000	G only	4 C, H2SO4 pH <2	28 days
Ortho Phosphorus		250	P, G	Cool, 4 C	48 hours
Oxygen, Dissolved		no headspace	P, G	Cool, 4 C	24 hours
Phenol		500	P, G	4 C, H2SO4 pH <2	28 days

P = Plastic G = Glass Teflon = Teflon-lined Cap

Table 1 (continued)
Sample Containers, Preservatives, and Holding Times

Analytical Parameter	Matrix	Required Volume (mls)	Sampling Container Size and Type	Preservatives	Maximum Holding Time
Phosphorus, Total		100	P, G	4 C, H2SO4 pH <2	28 days
Solids, Total		100	P, G	Cool, 4 C	7 days
Solids, Dissolved		100	P, G	Cool, 4 C	7 days
Solids, Suspended		100	P, G	Cool, 4 C	7 days
Solids, Settleable		1000	P, G	Cool, 4 C	48 hours
Solids, Volatile		1000	P, G	Cool, 4 C	7 days
Silica		100	P only	Cool, 4 C	28 days
Specific Conductance		200	P, G	Cool, 4 C	28 days
Sulfate		200	P, G	Cool, 4 C	28 days
Sulfide		200	P, G	NaOH + ZnAc	7 days
Surfactants (MBAS)		500	P, G	Cool, 4 C	48 hours
Turbidity		100	P, G	Cool, 4 C	48 hours
Metals:					
Hex. Chromium		100	P, G	Cool, 4 C	24 hours
Mercury		100	P, G	HNO3 pH <2	28 days
All Other Metals		200	P, G	HNO3 pH <2	6 months
Organics:					
*Acrolein/Acrylonitrile		no headspace	3 G vials	Cool, 4 C pH 4-5	14 days
Acid Extractables		1000	G Teflon	Cool, 4 C	7 day extension
Base Neutrals		1000	G Teflon	Cool, 4 C	7 day extension
PCBs		1000	G Teflon	Cool, 4 C	7 day extension
Pesticides		1000	G Teflon	Cool, 4 C	7 day extension
Herbicides		1000	G Teflon	Cool, 4 C	7 day extension
Volatiles		no headspace	3 G vials	4 C, HCl pH <2	14 days
Volatiles		no headspace	3 G vials	Cool, 4 C, no pres.	7 days

P = Plastic G = Glass Teflon = Teflon-lined Cap

7. Once sample containers are properly labeled, the sample labels should be wrapped with clear tape to prevent deterioration of sample level.

8. Proceed with the sample collection per the sampling plan requirements.

9. Collected samples should be immediately placed in an iced cooler to maintain as close as possible a 4°C atmosphere for shipment to the analytical laboratory. Follow sample shipping procedures detailed in Sample Shipping Standard Operating Procedures.

10. Recommended order of sample collection:

    In-situ measurements (e.g., temperature, pH, specific conductance)
    Volatile organic analytes (VOA)
    Purgeable organic carbon (POC)
    Purgeable organic halogens (POX)
    Total organic carbon (TOC)
    Extractable organics
    Total petroleum hydrocarbons (TPH)
    Total metals
    Dissolved metals
    Microbiologicals
    Phenols
    Cyanide
    Sulfate and chloride
    Turbidity
    Nitriate and ammonia
    Radionuclides

STANDARD OPERATING PROCEDURES
FOR
SAMPLE SHIPPING PROCEDURES

REVISED: January 4, 2001

PREPARED BY:

KERAMIDA ENVIRONMENTAL, INC.
330 North College Avenue
Indianapolis, Indiana 46202
317/685-6600

MATERIALS

Sturdy plastic or metal ice cooler
Chain-of-custody forms
Custody seals
ESC mailing labels
Strapping, clear packing, and duct tape
Ziploc® plastic bags (or equivalent)
Knife or scissors
Tape and dispenser
Extra labels, custody seals
Permanent marker
Surgical gloves on nitrile gloves (only for hazardous waste)
Large plastic bag (garbage can size)
Arrow labels or "This End Up" labels
Minimum eight pounds of ice
Wet ice packs (frozen)
Bubble wrap or other packing material
Federal Express form (with ESC account number)
Vermiculite (or commercially available cat liner)

PROCEDURES

For shipping purposes, samples are segregated into two classes; environmental samples and restricted articles (i.e., hazardous materials). Environmental samples can also be categorized based on expected or historical analyte levels (i.e., low or high). An environmental sample is one that is not defined as a hazardous material by the Department of Transportation (DOT, 49 CFR Part 171.8). The DOT defines a "hazardous material" as a substance which has been determined by the Secretary of Transportation to be capable of posing an unreasonable risk to health, safety, and property when transported in commerce, and which has been so designated. Any material of a suspected hazardous nature, previously characterized as hazardous, or known to be hazardous is considered a restricted article.

In general, the two major concerns in shipping samples are protecting the samples from incidental breakage during shipment and complying with applicable DOT and courier requirements for restricted article shipments.

Protecting the samples from incidental breakage can be achieved by following "common sense." All samples should be packed in a manner that will not allow them to freely move about in the cooler or shipping container. Glass surfaces should not be allowed to contact each other. When possible, repack the samples in the same materials that they were originally received in from the laboratory. Each container should be cushioned with plastic bubble wrap, styrofoam, or other

nonreactive cushioning material. Shipping restricted articles should conform to the packaging, marking, labeling and shipping instructions identified in 49 CFR Part 172.101.

Environmental samples shall be packed for shipment using the following procedures:

1. Select a sturdy cooler in good condition. Secure and tape the drain plug with fiber tape. Line the cooler with a large, heavy-duty plastic bag.

2. Place 2-4 inches of bubble wrap or other packing material in the bottom of the cooler.

3. The sample packer should wear eye protection and protective gloves when handling the samples during the packing process.

4. After ensuring that sample container lids are secure, place the bottles in separate and appropriately size Ziploc® polyethylene bags. Seal the bags with tape.

5. Wrap duplicate volatile organic (VOA) vials in one piece of bubble wrap or other packing material as a "VOA sandwich."

6. Place the bottles in the cooler with sufficient space to allow for the addition of more bubble wrap or other packing material between the bottles. Large or heavy sample containers should be placed on the bottom of the cooler with lighter samples (i.e., VOAs) placed on top to eliminate breakage.

7. Put "wet ice" (i.e., ice packs) or ice that has been placed in sealed heavy-duty polyethylene bags on top of or between the samples. Pack enough ice in the cooler to chill the samples during transit. If the cooler is shipped on a Friday or Saturday for Monday delivery, double the amount of ice placed in the cooler. Fill all remaining space with bubble wrap or other packing material. Securely fasten the top of the cooler with tape.

8. Place chain-of-custody form (and, if applicable, CLP traffic reports) into Ziploc® plastic bag and affix to the cooler's inside lid, then close the cooler. Securely fasten the top of the cooler shut with fiber tape. Place two signed and dated chain-of-custody seals on the top and sides of the cooler so that the cooler cannot be opened without breaking the seals.

9. Once cooler is sealed, shake test cooler to make sure that there are no loose sample containers in the cooler. If loose samples are detected, open the cooler and repack the samples.

10. Using clear tape, affix a mailing label and KERAMIDA's return address to the top of the cooler.

11. Mark the cooler with "This End Up" and arrow labels that indicate the proper upward position of the cooler.

12. Ship samples via priority overnight express to the contracted analytical laboratory for next morning delivery. If applicable, check for Saturday delivery.

13. Declare value of samples on the shipping form for insurance purposes. Note this declared value should reflect the cost to recollect the samples.

14. Record the tracking numbers from the express courier forms in the field notebook. Also, retain the customer's copy of the express courier airbill.

Restricted articles should be packed according to the above procedures with the following additions:

1. Place samples in individual Ziploc® plastic bags and secure with a plastic tie.

2. Place samples in paint cans in a manner which would prevent bottle breakage (i.e., do not place glass against glass).

3. Place vermiculite or other absorbent packing material in the paint can around the samples. The amount of packing material used should be sufficient to absorb the entire contents of the sample if the container is broken during shipment.

4. Secure a lid to the paint can with can clips and label the outside of the can with sample numbers and quantity. Mark the paint can with "This End Up" and arrow labels that indicate the property upward position of the paint can.

5. Package the paint cans in DOT boxes or coolers, with appropriate DOT shipping labels and markings on two adjacent sides of the box or cooler.

6. Ship the restricted articles via overnight courier following the courier's documentation requirements. A special airbill must be completed for each shipment. Retain a copy of the airbill for ESC records and tracking purposes, if necessary.

g:\sop\ssp.doc

3

KERAMIDA Environmental	LOG OF BORING KB-9 (Page 1 of 1)

Fruehauf Trailer Facility
902 South 7th Street
Phoenix, Arizona
KERAMIDA Project No. 2961B

Project ID	: 2961B	General Location	: 11 ft south of hole
Date Drilled	: 11/12/01		: in floor
Drilling Method	: HSA		
Scientist	: Greg Heuer		
Drilling Co.	: Yellow Jacket		

Depth in feet	USCS	GRAPHIC	DESCRIPTION	Samples	Rec %	REMARKS
0			Concrete			
			FILL Sand, brown			
			Asphalt			
			Silt FILL with caly and brick fragments, dark brown			
	FL			1	80	
						Soil sample collected for lab analysis (2.5-3.0')
			SILT with trace clay, brown			
				2	80	
5						
			reddish brown			
	ML					
				3	80	Soil sample collected for lab analysis (7.5-8.0')
			increasing sand content			
				4	50	
10						

12-10-2001 G:\CLIENTS\WWABASHNA\2961PHOE\2961BDEL\2961BBOR\KB-9.BOR

KERAMIDA Environmental	LOG OF BORING KB-10 (Page 1 of 1)

Fruehauf Trailer Facility
902 South 7th Street
Phoenix, Arizona
KERAMIDA Project No. 2961B

Project ID	: 2961B	General Location	: 4.5' north, 2' west
Date Drilled	: 11/12/01		: of hole in floor
Drilling Method	: HSA		
Scientist	: Greg Heuer		
Drilling Co.	: Yellow Jacket		

Depth in feet	USCS	GRAPHIC	DESCRIPTION	Samples	Rec %	REMARKS
0	FL		Concrete FILL Sand Asphalt			
	ML		SILT with trace clay, dark brown	1	30	Soil sample collected for lab analysis (1.5-2.0') large cobble at 2' resulted in auger refusal
5						
10						

12-04-2001 G:\CLIENTS\WWABASH\A\2961PHOE\2961BDEL\BORINGLO\KB-10.BOR

KERAMIDA Environmental	LOG OF BORING KB-10A (Page 1 of 1)

Fruehauf Trailer Facility
902 South 7th Street
Phoenix, Arizona
KERAMIDA Project No. 2961B

Project ID	: 2961B	General Location	: 2' west of KB-10
Date Drilled	: 11/12/01		
Drilling Method	: HSA		
Scientist	: Greg Heuer		
Drilling Co.	: Yellow Jacket		

Depth in feet	USCS	GRAPHIC	DESCRIPTION	Samples	Rec %	REMARKS
0	FL		Concrete FILL Sand Asphalt			
	ML		SILT with cobbles, brown	1	NA	auger refusal at 2'
5						
10						

12-10-2001 G:\CLIENTS\WWABASHNA\2961PHOE\2961BDEL\2961BBOR\KB-10A.BOR

KERAMIDA Environmental	LOG OF BORING KB-11 (Page 1 of 1)

Fruehauf Trailer Facility
902 South 7th Street
Phoenix, Arizona
KERAMIDA Project No. 2961B

Project ID	: 2961B	General Location	: 11 ft south of hole
Date Drilled	: 11/12/01		: in floor
Drilling Method	: HSA		
Scientist	: Greg Heuer		
Drilling Co.	: Yellow Jacket		

Depth in feet	USCS	GRAPHIC	DESCRIPTION	Samples	Rec %	REMARKS
0	FL		Concrete FILL Sand Asphalt Silt FILL with trace clay and coal, brown	1	70	Soil sample collected for lab analysis (2.5-3.0')
	ML		SILT with trace clay, brown	2	75	
5				3	80	Soil sample collected for lab analysis (8.0-8.5')
10						

12-10-2001 G:\CLIENTS\WWABASHNA\2961PHOE\2961BDEL\2961BBOR\KB-11.BOR

KERAMIDA Environmental	LOG OF BORING KB-12 (Page 1 of 1)

Fruehauf Trailer Facility
902 South 7th Street
Phoenix, Arizona
KERAMIDA Project No. 2961B

Project ID	: 2961B	General Location	: 8' east of hole
Date Drilled	: 11/12/01		: in floor
Drilling Method	: HSA		
Scientist	: Greg Heuer		
Drilling Co.	: Yellow Jacket		

Depth in feet	USCS	GRAPHIC	DESCRIPTION	Samples	Rec %	REMARKS
0	FL		Concrete FILL Sand Asphalt			
	ML		SILT with trace clay, brown	1	75	Soil sample collected for lab analysis (2.5-3.0')
				2	75	
5				3	60	
			increasing clay content	4	65	Soil sample collected for lab analysis (8.0-8.5')
10						

12-04-2001 G:\CLIENTS\WWABASHNA\2961PHOE\2961BDEL\BORINGLOI\KB-12.BOR

KERAMIDA Environmental	LOG OF BORING KB-13 (Page 1 of 1)

Fruehauf Trailer Facility
902 South 7th Street
Phoenix, Arizona
KERAMIDA Project No. 2961B

Project ID	: 2961B	General Location	: 4.5' due west of
Date Drilled	: 11/13/01		: NW corner
Drilling Method	: HSA		
Scientist	: Greg Heuer		
Drilling Co.	: Yellow Jacket		

Depth in feet	USCS	GRAPHIC	DESCRIPTION	Samples	Rec %	REMARKS
0	FL		Asphalt with gravel base			
	ML		SILT with clay, 10YR 4/4 (dark yellowish brown)	1	75	Soil sample collected for lab analysis (2.5-3.0')
	CL		Silty CLAY	2	60	
5				3	75	
	ML		SILT with clay	4	75	
			decreasing clay content	5	75	
			SILT with trace sand and trace clay	6	75	Soil sample collected for lab analysis (10-10.5')
10						
15						

12-04-2001 G:\CLIENTS\WWABASHNA\2961PHOE2961BDEL\BORINGLO\KB-13.BOR

KERAMIDA Environmental	LOG OF BORING KB-14 (Page 1 of 1)

Fruehauf Trailer Facility
902 South 7th Street
Phoenix, Arizona
KERAMIDA Project No. 2961B

Project ID	: 2961B	General Location	: 18.5' east and 5' north
Date Drilled	: 11/13/01		: of NW corner of building
Drilling Method	: HSA		
Scientist	: Greg Heuer		
Drilling Co.	: Yellow Jacket		

Depth in feet	USCS	GRAPHIC	DESCRIPTION	Samples	Rec %	REMARKS
0	FL		Gravel			
	ML		SILT with clay, 10YR 4/4 (dark yellowish brown)	1	NA	
				2	75	Soil sample collected for lab analysis (2.5-3.0')
			SILT with clay, wet, gray and black, petro odor and staining	3	75	Soil sample collected for lab analysis (4.0-4.5')
5	CL		Silty CLAY, 10YR 4/4 (dark yellowish brown)	4	100	
	ML		SILT with sand and trace clay	5	75	
				6	75	
			increasing sand content	7	75	Soil sample collected for lab analysis (10-10.5')
10						
15						

12-04-2001 G:\CLIENTS\WWABASHNA\2961PHOE\2961BDEL\BORINGLOI\KB-14.BOR

KERAMIDA Environmental	LOG OF BORING KB-15 (Page 1 of 1)

Fruehauf Trailer Facility
902 South 7th Street
Phoenix, Arizona
KERAMIDA Project No. 2961B

Project ID	: 2961B	General Location	: 28' east and 11' north
Date Drilled	: 11/13/01		: of NW corner of building
Drilling Method	: HSA		
Scientist	: Greg Heuer		
Drilling Co.	: Yellow Jacket		

Depth in feet	USCS	GRAPHIC	DESCRIPTION	Samples	Rec %	REMARKS
0	FL		Gravel			
	ML		SILT with clay, 10YR 4/4 (dark yellowish brown)	1	NA	
				2	75	Soil sample collected for lab analysis (2.5-3.0')
	CL		Silty CLAY	3	60	
5				4	60	
	ML		SILT with clay	5	60	
			trace clay	6	75	
			SILT with trace clay and trace sand	7	75	Soil sample collected for lab analysis (10-10.5')
10						
15						

12-10-2001 G:\CLIENTS\WWABASHNA\2961PHOE\2961BDEL\2961BBOR\KB-15.BOR

KERAMIDA Environmental	LOG OF BORING KB-16 (Page 1 of 1)

Fruehauf Trailer Facility
902 South 7th Street
Phoenix, Arizona
KERAMIDA Project No. 2961B

Project ID	: 2961B	General Location	: 16.5' east and 14' north
Date Drilled	: 11/13/01		: of NW corner of building
Drilling Method	: HSA		
Scientist	: Greg Heuer		
Drilling Co.	: Yellow Jacket		

Depth in feet	USCS	GRAPHIC	DESCRIPTION	Samples	Rec %	REMARKS
0	FL		Gravel			
	ML		SILT with clay, 10YR 4/4 (dark yellowish brown)	1	NA	
				2	60	Soil sample collected for lab analysis (2.5-3.0')
	CL		Silty CLAY	3	75	
5	ML		SILT with clay	4	75	
			trace clay	5	75	
			SILT with trace sand	6	75	
			increasing sand content	7	100	Soil sample collected for lab analysis (10-10.5')
10						
15						

12-04-2001 G:\CLIENTS\WWABASHNA\2961PHOE2961BDEL\BORINGLO\KB-16.BOR

KERAMIDA Environmental	LOG OF BORING KB-17 (Page 1 of 1)

Fruehauf Trailer Facility
902 South 7th Street
Phoenix, Arizona
KERAMIDA Project No. 2961B

Project ID	: 2961B	General Location	: 21' east and 24' north
Date Drilled	: 11/13/01		: of NW corner of building
Drilling Method	: HSA		
Scientist	: Greg Heuer		
Drilling Co.	: Yellow Jacket		

Depth in feet	USCS	GRAPHIC	DESCRIPTION	Samples	Rec %	REMARKS
0	FL		Concrete			
	CL		Silty CLAY, 10YR 4/4 (dark yellowish brown)	1	NA	
			decreasing clay content	2	75	Soil sample collected for lab analysis (2.5-3.0')
				3	75	
5	ML		SILT with clay	4	75	
			trace clay	5	75	
			SILT with trace sand	6	75	
10				7	75	Soil sample collected for lab analysis (10-10.5')
15						

12-04-2001 G:\CLIENTS\WWABASH\A\2961PHOE\2961BDEL\BORINGLOI\KB-17.BOR

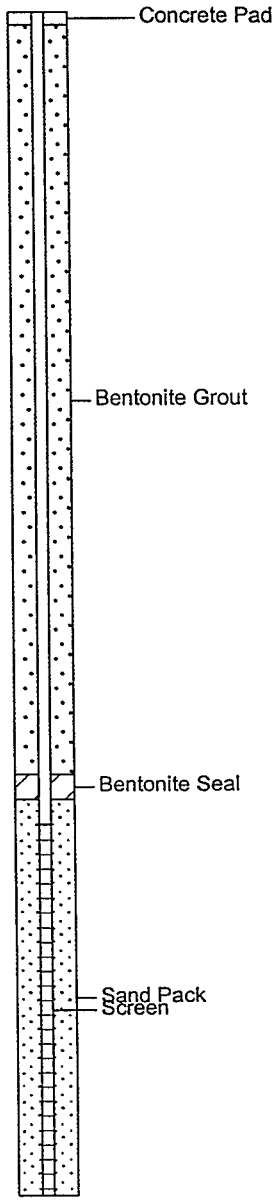
KERAMIDA Environmental	LOG OF BORING MW-E (Page 1 of 1)

Fruehauf Trailer Facility
902 South 7th Street
Phoenix, Arizona
KERAMIDA Project No. 2961B

Project ID : 2961B
Date Drilled : 11/14/01
Drilling Method : Stratex 132 forward air rotary
Scientist : Greg Heuer
Drilling Co. : Yellow Jacket
General Location : Straight south of MW-D

Depth in feet	USCS	GRAPHIC	DESCRIPTION	Samples	Rec %	REMARKS
0			Asphalt			
5	ML		SILT with clay			Sediment descriptions are based on observation of material pressure air driven out of top of metal drive casing
10	CG		COBBLES			
15						
20						Soil sample collected for lab analysis (11.0-11.5')
25						
30						
35						
40						
45						
50						
55						
60						
65						
70						
75						
80						
	SP		SAND			
85	CG		COBBLES with interbedded sand seams			
90						
95						
100						

Well:
Elev.:



12-10-2001 G:\CLIENTS\WWABASHNA\2961PHOE\2961BDEL\2961BBOR\MW-E.BOR

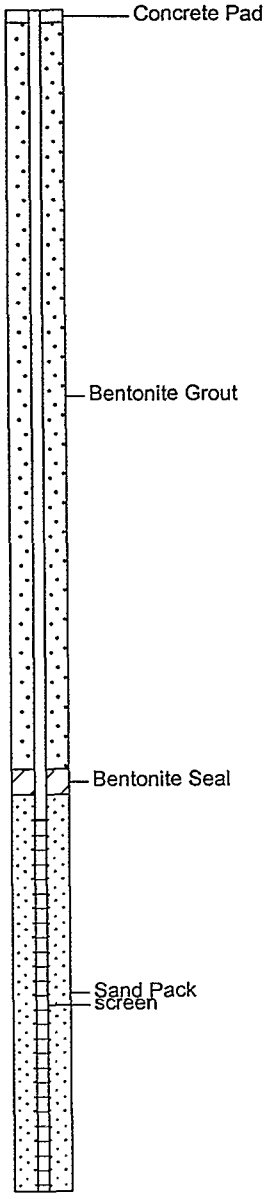
KERAMIDA Environmental	LOG OF BORING MW-F (Page 1 of 1)

Fruehauf Trailer Facility
902 South 7th Street
Phoenix, Arizona
KERAMIDA Project No. 2961B

Project ID	: 2961B	General Location	: Northern property line,
Date Drilled	: 11/16/01		: in between property
Drilling Method	: Stratex 132 forward air rotary		: building and off site
Scientist	: Greg Heuer		: building north of site
Drilling Co.	: Yellow Jacket		

Depth in feet	USCS	GRAPHIC	DESCRIPTION	Samples	Rec %	REMARKS
0	FL		Asphalt and Gravel Silt FILL to 2.5'; Brick & Cinder FILL mixed w/ clayey silt			Sediment descriptions are based on observation of material pressure air driven out of top of metal drive casing
5	ML		SILT with sand			
15	CG		COBBLES interbedded sand seams from 55'-82', moist to wet			Soil sample collected for lab analysis (10.0-10.5')

Well:
Elev.:



12-10-2001 G:\CLIENTS\WWABASHNA\2961PHOE\2961BDEL\2961BBOR\MW-F.BOR

4

KERAMIDA ENVIRONMENTAL, INC.
GROUNDWATER SAMPLE INFORMATION SHEET

Facility Name: Former Fruehauf-Phoenix, AZ KEI Project #: 2961B
Sample I.D.: MW-A Well Location: Southeast side of property

Monitoring Well Data
Well Material (PVC/SS/Teflon)
Inside Diam., in. (1 2 4 6)

Stick up or stick down height	0.00 ft
Total depth of well (TD)	89.06 ft
Depth to product	-- ft
Depth to water (DTW)	80.20 ft
Height of water column (H = TD-DTW)	8.86 ft
Conversion value (CV)	x 0.65
1 Well volume = H x CV	= 5.76 gal
3 Well volumes =	17.28 gal
Actual volume purged =	55 gal

Time Purged: 08:55 to 09:30
Purge date: 11/15/01

Purge method: bold type the method used
BAILER: polyethylene (3' length, 1.5" dia.)
Other: 10' long 3 1/2" dia. 5 gal. bailer
12V Downwell centrifugal pump
Geopump© peristaltic pump
Other: No pumping; using smeal truck with large bailer (see above)

*Also surging with surge block

⇒ Conversion values (bold type applicable value)
1" diameter well = 0.04 gal/ft
2" diameter well = 0.16 gal/ft
X 4" diameter well = 0.65 gal/ft
6" diameter well = 1.47 gal/ft

Field Test(s) Performed	Result
Temperature (°C)	
Spec. Cond (µmhos)	
D.O. (mg/L)	
PH	
ORP (mV)	
Turbidity (NTU)	
H_2S (mg/L)	
Fe^{2+} (mg/L)	

Sample Types (bold type all applicable)
X Monitoring Well
Split Sample
X Duplicate (Duplicate ID: MW-A dup.)
MS/MSD
Other_____

Containers	HCl	HNO_3	H_2SO_4	NaOH	ZnAc	No Treat
1 L plastic						
1 L glass						
500 ml plastic						
250 ml plastic		X				
40 ml vial						
Other						

Observations:
Sample Date: 11/16/01 Sample Time: 16:30 (military time) MW-A Sample Time: 16:40 (military time) MW-A dup
Was metals sample filtered prior to preservation? YES **NO** method: 0.45 µm cartridge / other:_____
Color of water before filtration: clear
Reaction upon addition of preservatives? YES **NO** explain :_____
Appearance of Water: (**Clear**/Slightly Turbid/Turbid/Very Turbid)
Well condition: good

Signature: Gregory L. Heuer Date: 11/16/01

KERAMIDA ENVIRONMENTAL, INC.
GROUNDWATER SAMPLE INFORMATION SHEET

Facility Name: Former Fruehauf-Phoenix, AZ KEI Project #: 2961B
Sample I.D.: MW-B Well Location: Southwest side of canopy area

Monitoring Well Data
Well Material (PVC/SS/Teflon)
Inside Diam., in. (1 2 4 6)

Stick up or stick down height	0.00 ft
Total depth of well (TD)	88.03 ft
Depth to product	-- ft
Depth to water (DTW)	80.87 ft
Height of water column (H = TD-DTW)	7.16 ft
Conversion value (CV)	x 0.65
1 Well volume = H x CV	= 4.65 gal
3 Well volumes =	13.96 gal
Actual volume purged =	55 gal

Time Purged: 09:45 to 10:45
Purge date: 11/15/01

Purge method: bold type the method used
BAILER: polyethylene (3' length, 1.5" dia.)
Other: 10' long 3 1/2" dia. 5 gal. bailer
12V Downwell centrifugal pump
Geopump© peristaltic pump
Other: No pumping; using smeal truck with large bailer (see above)

*Also surging with surge block

⇒ Conversion values (bold type applicable value)
1" diameter well = 0.04 gal/ft
2" diameter well = 0.16 gal/ft
X 4" diameter well = 0.65 gal/ft
6" diameter well = 1.47 gal/ft

Field Test(s) Performed	Result
Temperature (°C)	
Spec. Cond (μmhos)	
D.O. (mg/L)	
PH	
ORP (mV)	
Turbidity (NTU)	
H_2S (mg/L)	
Fe^{2+} (mg/L)	

Sample Types (bold type all applicable)
X Monitoring Well
Split Sample
Duplicate (Duplicate ID: MW-A dup.)
MS/MSD
Other_____

Containers	HCl	HNO_3	H_2SO_4	NaOH	ZnAc	No Treat
1 L plastic						
1 L glass						
500 ml plastic						
250 ml plastic		X				
40 ml vial						
Other						

Observations:
Sample Date: 11/16/01 Sample Time: 16:50 (military time)
Was metals sample filtered prior to preservation? YES **NO** method: 0.45 μm cartridge / other:_____
Color of water before filtration: clear
Reaction upon addition of preservatives? YES **NO** explain :_____
Appearance of Water: (**Clear**/Slightly Turbid/Turbid/Very Turbid)
Well condition: good

Signature: Gregory L. Heuer Date: 11/16/01

KERAMIDA ENVIRONMENTAL, INC.
GROUNDWATER SAMPLE INFORMATION SHEET

Facility Name: Former Fruehauf-Phoenix, AZ
KEI Project #: 2961B
Sample I.D.: MW-C
Well Location: In between existing truck wash bay & former truck wash bay

Monitoring Well Data
Well Material (PVC/SS/Teflon)
Inside Diam., in. (1 2 4 6)

Stick up or stick down height	0.00 ft
Total depth of well (TD)	87.79 ft
Depth to product	-- ft
Depth to water (DTW)	81.09 ft
Height of water column (H = TD-DTW)	6.70ft
Conversion value (CV)	x 0.65
1 Well volume = H x CV	= 4.36 gal
3 Well volumes =	13.07 gal
Actual volume purged =	55 gal

Time Purged: 13:40 to 14:30
Purge date: 11/15/01

Purge method: bold type the method used
BAILER: polyethylene (3' length, 1.5" dia.)
Other: 10' long 3 1/2" dia. 5 gal. bailer
12V Downwell centrifugal pump
Geopump© peristaltic pump
Other: No pumping; using smeal truck with large bailer (see above)

*Also surging with surge block

⇒ Conversion values (bold type applicable value)
1" diameter well = 0.04 gal/ft
2" diameter well = 0.16 gal/ft
X 4" diameter well = 0.65 gal/ft
6" diameter well = 1.47 gal/ft

Field Test(s) Performed	Result
Temperature (°C)	
Spec. Cond (µmhos)	
D.O. (mg/L)	
PH	
ORP (mV)	
Turbidity (NTU)	
H_2S (mg/L)	
Fe^{2+} (mg/L)	

Sample Types (bold type all applicable)
X Monitoring Well
Split Sample
Duplicate (Duplicate ID: MW-A dup.)
MS/MSD
Other_____

Containers	HCl	HNO_3	H_2SO_4	NaOH	ZnAc	No Treat
1 L plastic						
1 L glass						
500 ml plastic						
250 ml plastic		X				
40 ml vial						
Other						

Observations:
Sample Date: 11/16/01
Sample Time: 16:59 (military time)
Was metals sample filtered prior to preservation? YES **NO** method: 0.45 µm cartridge / other:_____
Color of water before filtration: clear
Reaction upon addition of preservatives? YES **NO** explain :_____
Appearance of Water: (**Clear**/Slightly Turbid/Turbid/Very Turbid)
Well condition: good

Signature: Gregory L. Heuer
Date: 11/16/01

KERAMIDA ENVIRONMENTAL, INC.
GROUNDWATER SAMPLE INFORMATION SHEET

Facility Name: Former Fruehauf-Phoenix, AZ KEI Project #: 2961B
Sample I.D.: MW-D Well Location: Northwest side of former truck wash area

Monitoring Well Data
Well Material (PVC/SS/Teflon)
Inside Diam., in. (1 2 4 6)

Stick up or stick down height	0.00 ft
Total depth of well (TD)	89.42 ft
Depth to product	-- ft
Depth to water (DTW)	81.16 ft
Height of water column (H = TD-DTW)	8.26 ft
Conversion value (CV)	x 0.65
1 Well volume = H x CV	= 5.37 gal
3 Well volumes =	16.11 gal
Actual volume purged =	55 gal

Time Purged: 14:40 to 15:30
Purge date: 11/15/01

Purge method: bold type the method used
BAILER: polyethylene (3' length, 1.5" dia.)
Other: 10' long 3 1/2" dia. 5 gal. bailer
12V Downwell centrifugal pump
Geopump© peristaltic pump
Other: No pumping; using smeal truck with large bailer (see above)

*Also surging with surge block

⇒ Conversion values (bold type applicable value)
1" diameter well = 0.04 gal/ft
2" diameter well = 0.16 gal/ft
X 4" diameter well = 0.65 gal/ft
6" diameter well = 1.47 gal/ft

Field Test(s) Performed	Result
Temperature (°C)	
Spec. Cond (μmhos)	
D.O. (mg/L)	
PH	
ORP (mV)	
Turbidity (NTU)	
H_2S (mg/L)	
Fe^{2+} (mg/L)	

Sample Types (bold type all applicable)
X Monitoring Well
Split Sample
Duplicate (Duplicate ID: MW-A dup.)
MS/MSD
Other_____

Containers	HCl	HNO_3	H_2SO_4	NaOH	ZnAc	No Treat
1 L plastic						
1 L glass						
500 ml plastic						
250 ml plastic		X				
40 ml vial						
Other						

Observations:
Sample Date: 11/16/01 Sample Time: 17:15 (military time)
Was metals sample filtered prior to preservation? YES **NO** method: 0.45 μm cartridge / other:_____
Color of water before filtration: clear
Reaction upon addition of preservatives? YES **NO** explain :_____
Appearance of Water: (**Clear**/Slightly Turbid/Turbid/Very Turbid)
Well condition: good

Signature: Gregory L. Hever Date: 11/16/01

KERAMIDA ENVIRONMENTAL, INC.
GROUNDWATER SAMPLE INFORMATION SHEET

Facility Name: Former Fruehauf-Phoenix, AZ
KEI Project #: 2961B
Sample I.D.: MW-E
Well Location: Straight south of MW-D along southern fence line

Monitoring Well Data

Well Material (PVC/SS/Teflon)	
Inside Diam., in. (1 2 4 6)	
Stick up or stick down height	0.00 ft
Total depth of well (TD)	95.08 ft
Depth to product	-- ft
Depth to water (DTW)	80.92 ft
Height of water column (H = TD-DTW)	14.16 ft
Conversion value (CV)	x 0.65
1 Well volume = H x CV	= 9.20 gal
3 Well volumes =	27.61 gal
Actual volume purged =	110 gal

Time Purged: 07:00 to 07:55
Purge date: 11/16/01

Purge method: bold type the method used
BAILER: polyethylene (3' length, 1.5" dia.)
Other: 10' long 3 1/2" dia. 5 gal. bailer
12V Downwell centrifugal pump
Geopump© peristaltic pump
Other: No pumping; using smeal truck with large bailer (see above)

*Also surging with surge block

⇒ Conversion values (bold type applicable value)
1" diameter well = 0.04 gal/ft
2" diameter well = 0.16 gal/ft
X 4" diameter well = 0.65 gal/ft
6" diameter well = 1.47 gal/ft

Field Test(s) Performed	Result
Temperature (°C)	
Spec. Cond (μmhos)	
D.O. (mg/L)	
PH	
ORP (mV)	
Turbidity (NTU)	
H_2S (mg/L)	
Fe^{2+} (mg/L)	

Sample Types (bold type all applicable)
X Monitoring Well
Split Sample
Duplicate (Duplicate ID: MW-A dup.)
MS/MSD
Other_____

Containers	HCl	HNO_3	H_2SO_4	NaOH	ZnAc	No Treat
1 L plastic						
1 L glass						
500 ml plastic						
250 ml plastic		X				
40 ml vial						
Other						

Observations:
Sample Date: 11/16/01
Sample Time: 17:22 (military time)
Was metals sample filtered prior to preservation? YES **NO** method: 0.45 μm cartridge / other:_____
Color of water before filtration: clear
Reaction upon addition of preservatives? YES **NO** explain :_____
Appearance of Water: (**Clear**/Slightly Turbid/Turbid/Very Turbid)
Well condition: good

Signature: Gregory L. Heuer
Date: 11/16/01

KERAMIDA ENVIRONMENTAL, INC.
GROUNDWATER SAMPLE INFORMATION SHEET

Facility Name: Former Fruehauf-Phoenix, AZ KEI Project #: 2961B
Sample I.D.: MW-F Well Location: North side of property in parking area

Monitoring Well Data
Well Material (PVC/SS/Teflon)
Inside Diam., in. (1 2 4 6)

Stick up or stick down height	0.00 ft
Total depth of well (TD)	94.81 ft
Depth to product	-- ft
Depth to water (DTW)	81.47 ft
Height of water column (H = TD-DTW)	13.34 ft
Conversion value (CV)	x 0.65
1 Well volume = H x CV	= 8.67 gal
3 Well volumes =	26.01 gal
Actual volume purged =	110 gal

Time Purged: 15:30 to 16:30
Purge date: 11/16/01

Purge method: bold type the method used
BAILER: polyethylene (3' length, 1.5" dia.)
Other: 10' long 3 1/2" dia. 5 gal. bailer
12V Downwell centrifugal pump
Geopump© peristaltic pump
Other: No pumping; using smeal truck with large bailer (see above)

*Also surging with surge block

⇒ Conversion values (bold type applicable value)
1" diameter well = 0.04 gal/ft
2" diameter well = 0.16 gal/ft
X 4" diameter well = 0.65 gal/ft
6" diameter well = 1.47 gal/ft

Field Test(s) Performed	Result
Temperature (°C)	
Spec. Cond (µmhos)	
D.O. (mg/L)	
PH	
ORP (mV)	
Turbidity (NTU)	
H_2S (mg/L)	
Fe^{2+} (mg/L)	

Sample Types (bold type all applicable)
X Monitoring Well
Split Sample
Duplicate (Duplicate ID: MW-A dup.)
MS/MSD
Other_____

Containers	HCl	HNO_3	H_2SO_4	NaOH	ZnAc	No Treat
1 L plastic						
1 L glass						
500 ml plastic						
250 ml plastic		X				
40 ml vial						
Other						

Observations:
Sample Date: 11/16/01 Sample Time: 17:005(military time)
Was metals sample filtered prior to preservation? YES **NO** method: 0.45 µm cartridge / other:_____
Color of water before filtration: clear
Reaction upon addition of preservatives? YES **NO** explain :_____
Appearance of Water: (Clear/Slightly Turbid/Turbid/Very Turbid)
Well condition: good

Signature: Gregory L. Hever Date: 11/16/01

5

ARIZONA DEPARTMENT OF ENVIRONMENTAL QUALITY

Governor Jane Dee Hull Jacqueline E. Schafer, Director

CERTIFIED MAIL
Return Receipt Request
UST Ref. #99-0025580
December 17, 1999

Fruehauf Trailer Corporation
902 South 7th Street
Phoenix, Arizona 85034

RE: CASE CLOSURE AND INFORMATION ON UST JURISDICTION ISSUES

LUST File #2620.01	1.2K used oil UST
Facility ID #0-002191	Fruehauf Trailer UST Facility
Maricopa County	902 South 7th Street
	Phoenix, Arizona 85034

Dear Sir or Madam:

The Arizona Department of Environmental Quality (ADEQ) Underground Storage Tank (UST) Program staff have reviewed the referenced case file. Based on this review, it has been determined that UST Program's investigative and remedial requirements have been satisfied. The referenced UST release discovered on or about October 29, 1992 at this facility does not appear to be a significant threat to groundwater quality. This letter concerns the referenced used oil release reported to the ADEQ on December 16, 1992. Further response concerning the referenced release is, therefore, not required at this time.

This LUST case file has been closed for the following reasons:

1. The referenced UST system release location was adequately investigated. The vertical extent of laboratory detectable soil contamination was adequately defined to less than 10 feet below the ground surface (bgs). The horizontal extent of soil contamination was adequately defined to a radius of approximately four fee around the release location.

2. Depth to groundwater beneath this facility has been estimated or measured to be 60 feet bgs. The source of this information is the Arizona Department of Water Resources, 1992.

3. Based upon laboratory analytical results and supporting documentation within the referenced LUST case file(s) provided to ADEQ, UST Program staff have determined that the extent of contamination has been adequately defined as of October 29, 1992. This date is based upon laboratory analysis date information for data which adequately characterized the soil portion of the referenced contamination. The results to date of soil testing of the referenced UST release as documented within the referenced case indicate that contaminant concentration remaining in the subsurface soil meets the residential Health Based Guidance Level as specified in Arizona Administrative Code (A.A.C.) R18-7-201 et seq. for the identified contaminant(s).

4. The highest soil contaminant concentration remaining in the subsurface soil included 320 mg/kg petroleum hydrocarbons at or about 10 feet bgs.

The ADEQ is not requiring additional work for the referenced UST release(s) at this facility at this time. However if, in the future, evidence of previously undocumented contamination is discovered at, or emanating from, this facility, the ADEQ will require additional investigation including any necessary additional remediation.

The ADEQ informs you that, pursuant to A.R.S. §49-1052 (M), you have **one year from the date of receiving this case closure letter to submit final applications to the State Assurance Fund (SAF). You may wish to contact your environmental consultant regarding this SAF claim submission deadline.** Failure to submit a claim by this deadline will forfeit your rights, if release(s) and/or tank(s) are eligible, for SAF assistance.

If you anticipate or desire SAF coverage for costs associated with decommissioning any well(s), you should decommission any soil vapor and/or groundwater well(s), in accordance with Arizona Department of Water Resources' requirements. For these costs to be eligible for SAF, they must meet reasonable and necessary criteria and you must conduct any such work within a time frame to submit the final report and invoices concerning this work so as to comply with the **one year deadline for submitting any SAF claims**, if eligible or as applicable.

Informal and Formal Appeal Rights

Pursuant to A.R.S. §49-1091, you have 30 days after receipt of this letter to request an informal appeal to this interim decision. Any informal appeal should contain specific portions of this interim decision with which you disagree. The informal appeal process also allows you to request a meeting with ADEQ. **Because ADEQ staff have completed its review of all available data relating to the referenced UST release(s) and unless you disagree by filing an informal appeal, the ADEQ will adopt this interim decision as a final decision 31 calendar days after you receive this letter.** When this decision becomes final, you have the right to appeal this decision in accordance with A.A.C. R18-12-610 and A.R.S. §41-1092.02 et. seq.

Information on UST Jurisdiction

The ADEQ has determined that the contamination corresponding to areas of the site including at least the dry wel and oil-water separator tank is not within jurisdiction of the UST Program. If you have any questions about Solic Waste Section requirements or need further assistance concerning these contamination areas, contact ADEQ Solic Waste Section Inspection & Compliance Unit staff at (602) 207-4141. For the dry well contamination issues tha are apparently already being coordinated with ADEQ, please continue to work with the ADEQ Aquifer Protectio Program.

The ADEQ appreciates the efforts that you have made to protect human health and Arizona's environment. Thi letter shall not be construed as a determination by ADEQ of the referenced facility's compliance with any othe applicable laws and requirements. This letter does not affect the status of any other ADEQ program or ADEQ US Program case file for this facility. The ADEQ may revoke or amend this letter if any of the submitted informatio is determined to be inaccurate or if any condition was unknown to ADEQ when this letter was issued. Please contac me with questions at (602) 207-4292.

Sincerely,

Quinn Thacker, RES
Closure & Ranking Team Supervisor
Technical Support Unit
UST Corrective Action Section

Sincerely,

Joseph Karl Drosendahl
Manager
Technical Support Unit
UST Corrective Action Section

QRT:lsr

cc: ADEQ SAF Claims Contractor

m:\wpdocs\closures\26202191.01

6

TestAmerica
INCORPORATED

ANALYTICAL REPORT

KERAMIDA ENVIRONMENTAL 6028
KRISTEN BELLCREDI
330 N. COLLEGE AVENUE
INDIANAPOLIS, IN 46202

RECEIVED
DEC 06 2001
KERAMIDA

Project: 2961B
Project Name: WabashNational-PheonixAZ
Sampler: GREG HEUER

Lab Number: 01-A166153
Sample ID: MW-E 10.0-10.5
Sample Type: Soil
Site ID:

Date Collected: 11/14/01
Time Collected: 9:15
Date Received: 11/17/01
Time Received: 9:00
Page: 1

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Date	Time	Analyst	Method	Batch
METALS										
Arsenic	7.35	mg/kg	0.967	0.967	1	11/20/01	22:35	C.Johnson	6010B	3138
Chromium	23.6	mg/kg	0.967	0.967	1	11/20/01	22:35	C.Johnson	6010B	3138
Lead	8.51	mg/kg	0.967	0.967	1	11/20/01	22:35	C.Johnson	6010B	3138

All metals analysis are total.

LABORATORY COMMENTS:

ND = Not detected at the report limit.

= Recovery outside Laboratory historical or method prescribed limits.

All results reported on a wet weight basis.

End of Sample Report.

TestAmerica
INCORPORATED

ANALYTICAL REPORT

KERAMIDA ENVIRONMENTAL 6028
KRISTEN BELLCREDI
330 N. COLLEGE AVENUE
INDIANAPOLIS, IN 46202

Project: 2961B
Project Name: WabashNational-PheonixAZ
Sampler: GREG HEUER

Lab Number: 01-A166154
Sample ID: MW-F 10.0-10.5
Sample Type: Soil
Site ID:

Date Collected: 11/16/01
Time Collected: 9:05
Date Received: 11/17/01
Time Received: 9:00
Page: 1

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Date	Time	Analyst	Method	Batch
METALS										
Arsenic	5.07	mg/kg	0.975	0.975	1	11/20/01	22:35	C.Johnson	6010B	3138
Chromium	10.9	mg/kg	0.975	0.975	1	11/20/01	22:35	C.Johnson	6010B	3138
Lead	4.29	mg/kg	0.975	0.975	1	11/20/01	22:35	C.Johnson	6010B	3138

All metals analysis are total

LABORATORY COMMENTS:

ND = Not detected at the report limit.

= Recovery outside Laboratory historical or method prescribed limits.

All results reported on a wet weight basis.

End of Sample Report.

TestAmerica
INCORPORATED

ANALYTICAL REPORT

KERAMIDA ENVIRONMENTAL 6028
KRISTEN BELLCREDI
330 N. COLLEGE AVENUE
INDIANAPOLIS, IN 46202

Project: 2961B
Project Name: WabashNational-PheonixAZ
Sampler: GREG HEUER

Lab Number: 01-A166155
Sample ID: MW-A
Sample Type: Ground water
Site ID:

Date Collected: 11/16/01
Time Collected: 16:30
Date Received: 11/17/01
Time Received: 9:00
Page: 1

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
METALS										
Arsenic	8.00	ug/l	5.00	5.00	1	11/20/01	19:47	C.Johnson	6010B	3537
Chromium	ND	ug/l	5.000	5.000	1	11/20/01	19:47	C.Johnson	6010B	3537
Lead	ND	ug/l	3.000	3.000	1	11/20/01	19:47	C.Johnson	6010B	3537

All metals analysis are total

LABORATORY COMMENTS:

ND = Not detected at the report limit.

= Recovery outside Laboratory historical or method prescribed limits.

End of Sample Report.

TestAmerica
INCORPORATED

ANALYTICAL REPORT

KERAMIDA ENVIRONMENTAL 6028
KRISTEN BELLCREDI
330 N. COLLEGE AVENUE
INDIANAPOLIS, IN 46202

Project: 2961B
Project Name: WabashNational-PheonixAZ
Sampler: GREG HEUER

Lab Number: 01-A166156
Sample ID: MW-A DUP
Sample Type: Ground water
Site ID:

Date Collected: 11/16/01
Time Collected: 16:40
Date Received: 11/17/01
Time Received: 9:00
Page: 1

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
METALS										
Arsenic	9.00	ug/l	5.00	5.00	1	11/20/01	19:47	C.Johnson	6010B	3537
Chromium	ND	ug/l	5.000	5.000	1	11/20/01	19:47	C.Johnson	6010B	3537
Lead	ND	ug/l	3.000	3.000	1	11/20/01	19:47	C.Johnson	6010B	3537

All metals analysis are total.

LABORATORY COMMENTS:

ND = Not detected at the report limit.

= Recovery outside Laboratory historical or method prescribed limits.

End of Sample Report.

TestAmerica
INCORPORATED

ANALYTICAL REPORT

KERAMIDA ENVIRONMENTAL 6028
KRISTEN BELLCREDI
330 N. COLLEGE AVENUE
INDIANAPOLIS, IN 46202

Project: 2961B
Project Name: WabashNational-PheonixAZ
Sampler: GREG HEUER

Lab Number: 01-A166157
Sample ID: MW-B
Sample Type: Ground water
Site ID:

Date Collected: 11/16/01
Time Collected: 16:50
Date Received: 11/17/01
Time Received: 9:00
Page: 1

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
METALS										
Arsenic	10.0	ug/l	5.00	5.00	1	11/20/01	19:47	C.Johnson	6010B	3537
Chromium	8.000	ug/l	5.000	5.000	1	11/20/01	19:47	C.Johnson	6010B	3537
Lead	ND	ug/l	3.000	3.000	1	11/20/01	19:47	C.Johnson	6010B	3537

All metals analysis are total.

LABORATORY COMMENTS:

ND = Not detected at the report limit.

= Recovery outside Laboratory historical or method prescribed limits.

End of Sample Report.

TestAmerica
INCORPORATED

ANALYTICAL REPORT

KERAMIDA ENVIRONMENTAL 6028
KRISTEN BELLCREDI
330 N. COLLEGE AVENUE
INDIANAPOLIS, IN 46202

Project: 2961B
Project Name: WabashNational-PheonixAZ
Sampler: GREG HEUER

Lab Number: 01-A166158
Sample ID: MW-C
Sample Type: Ground water
Site ID:

Date Collected: 11/16/01
Time Collected: 16:59
Date Received: 11/17/01
Time Received: 9:00
Page: 1

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
METALS										
Arsenic	7.00	ug/l	5.00	5.00	1	11/20/01	19:47	C.Johnson	6010B	3537
Chromium	ND	ug/l	5.000	5.000	1	11/20/01	19:47	C.Johnson	6010B	3537
Lead	ND	ug/l	3.000	3.000	1	11/20/01	19:47	C.Johnson	6010B	3537

All metals analysis are total.

LABORATORY COMMENTS:

ND = Not detected at the report limit.

= Recovery outside Laboratory historical or method prescribed limits.

End of Sample Report.

TestAmerica
INCORPORATED

ANALYTICAL REPORT

KERAMIDA ENVIRONMENTAL 6028
KRISTEN BELLCREDI
330 N. COLLEGE AVENUE
INDIANAPOLIS, IN 46202

Lab Number: 01-A166159
Sample ID: MW-D
Sample Type: Ground water
Site ID:

Project: 2961B
Project Name: WabashNational-PheonixAZ
Sampler: GREG HEUER

Date Collected: 11/16/01
Time Collected: 17:15
Date Received: 11/17/01
Time Received: 9:00
Page: 1

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
METALS										
Arsenic	10.0	ug/l	5.00	5.00	1	11/20/01	19:47	C.Johnson	6010B	3537
Chromium	8.000	ug/l	5.000	5.000	1	11/20/01	19:47	C.Johnson	6010B	3537
Lead	ND	ug/l	3.000	3.000	1	11/20/01	19:47	C.Johnson	6010B	3537

All metals analysis are total.

LABORATORY COMMENTS:

ND = Not detected at the report limit.

= Recovery outside Laboratory historical or method prescribed limits.

End of Sample Report.

TestAmerica
INCORPORATED

ANALYTICAL REPORT

KERAMIDA ENVIRONMENTAL 6028
KRISTEN BELLCREDI
330 N. COLLEGE AVENUE
INDIANAPOLIS, IN 46202

Project: 2961B
Project Name: WabashNational-PheonixAZ
Sampler: GREG HEUER

Lab Number: 01-A166160
Sample ID: MW-E
Sample Type: Ground water
Site ID:

Date Collected: 11/16/01
Time Collected: 17:22
Date Received: 11/17/01
Time Received: 9:00
Page: 1

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
METALS										
Arsenic	10.0	ug/l	5.00	5.00	1	11/20/01	19:47	C.Johnson	6010B	3537
Chromium	13.00	ug/l	5.000	5.000	1	11/20/01	19:47	C.Johnson	6010B	3537
Lead	ND	ug/l	3.000	3.000	1	11/20/01	19:47	C.Johnson	6010B	3537

All metals analysis are total.

LABORATORY COMMENTS:

ND = Not detected at the report limit.

= Recovery outside Laboratory historical or method prescribed limits.

End of Sample Report.

TestAmerica
INCORPORATED

ANALYTICAL REPORT

KERAMIDA ENVIRONMENTAL 6028
KRISTEN BELLCREDI
330 N. COLLEGE AVENUE
INDIANAPOLIS, IN 46202

Lab Number: 01-A166161
Sample ID: MW-F
Sample Type: Ground water
Site ID:

Project: 2961B
Project Name: WabashNational-PheonixAZ
Sampler: GREG HEUER

Date Collected: 11/16/01
Time Collected: 17:05
Date Received: 11/17/01
Time Received: 9:00
Page: 1

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
METALS										
Arsenic	7.00	ug/l	5.00	5.00	1	11/20/01	19:47	C.Johnson	6010B	3537
Chromium	7.000	ug/l	5.000	5.000	1	11/20/01	19:47	C.Johnson	6010B	3537
Lead	ND	ug/l	3.000	3.000	1	11/20/01	19:47	C.Johnson	6010B	3537

All metals analysis are total.

LABORATORY COMMENTS:

ND = Not detected at the report limit.

= Recovery outside Laboratory historical or method prescribed limits.

End of Sample Report.

TestAmerica
INCORPORATED

PROJECT QUALITY CONTROL DATA
Project Number: 2961B
Page: 1

Matrix Spike Recovery

Analyte	units	Orig. Val.	MS Val	Spike Conc	Recovery	Target Range	Q.C. Batch	Spike Sample
METALS								
Arsenic	mg/l	0.0250	0.0770	0.0500	104	80 - 120	3537	01-A165588
Chromium	mg/l	0.0710	0.2570	0.2000	93	80 - 120	3537	01-A165588
Lead	mg/l	0.0360	0.0850	0.0500	98	80 - 120	3537	01-A165588
Arsenic	mg/kg	< 0.984	18.343	20.000	92	80 - 120	3138	01-A165576
Chromium	mg/kg	4.331	40.828	40.000	91	80 - 120	3138	01-A165576
Lead	mg/kg	1.968	89.546	100.000	88	80 - 120	3138	01-A165576

Matrix Spike Duplicate

Analyte	units	Orig. Val.	Duplicate	RPD	Limit	Q.C. Batch
METALS						
Arsenic	mg/l	0.0770	0.0790	2.56	20	3537
Chromium	mg/l	0.2570	0.2570	0.00	20	3537
Lead	mg/l	0.0850	0.0860	1.17	20	3537
Arsenic	mg/kg	18.343	17.624	4.00	20	3138
Chromium	mg/kg	40.828	40.198	1.56	20	3138
Lead	mg/kg	89.546	88.515	1.16	20	3138

Laboratory Control Data

Analyte	units	Known Val.	Analyzed Val	% Recovery	Target Range	Q.C. Batch
METALS						
Arsenic	mg/l	0.0500	0.0540	108	80 - 120	3537
Chromium	mg/l	0.2000	0.2100	105	80 - 120	3537
Lead	mg/l	0.0500	0.0490	98	80 - 120	3537
Arsenic	mg/kg	20.000	19.400	97	75 - 125	3138

Project QC continued . . .

TestAmerica
INCORPORATED

PROJECT QUALITY CONTROL DATA
Project Number: 2961B
Page: 2

Laboratory Control Data

Analyte	units	Known Val.	Analyzed Val	% Recovery	Target Range	Q.C. Batch
Chromium	mg/kg	40.000	38.400	96	75 - 125	3138
Lead	mg/kg	100.000	93.200	93	75 - 125	3138

Continuing Calibration Verification

Analyte	units	Known Val.	Analyzed Val	% Recovery	Target Range	Q.C. Batch

METALS

Blank Data

Analyte	Blank Value	Units	Q.C. Batch	Date Analyzed	Time Analyzed
METALS					
Arsenic	< 0.0050	mg/l	3537	11/20/01	19:47
Chromium	< 0.0050	mg/l	3537	11/20/01	19:47
Lead	< 0.0030	mg/l	3537	11/20/01	19:47
Arsenic	< 1.000	mg/kg	3138	11/20/01	22:35
Chromium	< 1.000	mg/kg	3138	11/20/01	22:35
Lead	< 1.000	mg/kg	3138	11/20/01	22:35

= Value outside Laboratory historical or method prescribed QC limits.

'nd of Report for Project 260858

TestAmerica
INCORPORATED

12/ 4/01

KERAMIDA ENVIRONMENTAL
KRISTEN BELLCREDI
INDIANAPOLIS, IN 46202

This report includes the analytical certificates of analysis for all samples listed below. These samples relate to your project 2961B WabashNational-PheonixAZ.
An executed copy of the chain of custody and the sample receipt form are also included as an addendum to this report.

Sample Identification	Lab Number	Collection Date
MW-E 10.0-10.5	01-A166153	11/14/01
MW-F 10.0-10.5	01-A166154	11/16/01
MW-A	01-A166155	11/16/01
MW-A DUP	01-A166156	11/16/01
MW-B	01-A166157	11/16/01
MW-C	01-A166158	11/16/01
MW-D	01-A166159	11/16/01
MW-E	01-A166160	11/16/01
MW-F	01-A166161	11/16/01

These results relate only to the items tested.
This report shall not be reproduced except in full and with permission of the laboratory. This is a re-issued report.

Report Approved By: Michael D. Dunn

Report Date: 12/ 4/01
Revised Report Date

Paul E. Lane, Jr., Lab Director
Michael H. Dunn, M.S., Technical Director
Johnny A. Mitchell, Dir. Technical Serv.
Eric S. Smith, Assistant Technical Director
Gail A. Lage, Technical Serv.
Glenn L. Norton, Technical Serv.
Kelly S. Comstock, Technical Serv.
Pamela A. Langford, Technical Serv.

Laboratory Certification Number: AZ0473

2960 Foster Creighton Drive / Nashville,TN 37204 / 615-726-0177 / Fax: 615-726-0954 / 800-765-0980

TestAmerica
INCORPORATED

A copy of this report (signed) must be maintained
in the project folder

2960 Foster Creighton Drive / Nashville,TN 37204 / 615-726-0177 / Fax: 615-726-0954 / 800-765-0980

TestAmerica
INCORPORATED

ANALYTICAL REPORT

KERAMIDA ENVIRONMENTAL 6028
KRISTEN BELLCREDI
330 N. COLLEGE AVENUE
INDIANAPOLIS, IN 46202

Project: 2961B
Project Name: WABASH NATIONAL
Sampler: GREG HEUER

Lab Number: 01-A163514
Sample ID: KB-9 2.5-3.0'
Sample Type: Soil
Site ID:

Date Collected: 11/12/01
Time Collected: 9:20
Date Received: 11/14/01
Time Received: 9:00
Page: 1

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Date	Time	Analyst	Method	Batch
METALS										
Arsenic	10.6	mg/kg	1.00	1.00	1	11/18/01	17:03	C.Johnson	6010B	804
Lead	5.22	mg/kg	1.00	1.00	1	11/18/01	17:03	C.Johnson	6010B	804

All metals analysis are total.

RECEIVED
DEC 06 2001
KERAMIDA

LABORATORY COMMENTS:

ND = Not detected at the report limit.

= Recovery outside Laboratory historical or method prescribed limits.

All results reported on a wet weight basis.

End of Sample Report.

TestAmerica
INCORPORATED

ANALYTICAL REPORT

KERAMIDA ENVIRONMENTAL 6028
KRISTEN BELLCREDI
330 N. COLLEGE AVENUE
INDIANAPOLIS, IN 46202

Project: 2961B
Project Name: WABASH NATIONAL
Sampler: GREG HEUER

Lab Number: 01-A163515
Sample ID: KB-9 7.5-8.0'
Sample Type: Soil
Site ID:

Date Collected: 11/12/01
Time Collected: 10:15
Date Received: 11/14/01
Time Received: 9:00
Page: 1

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Date	Time	Analyst	Method	Batch
METALS										
Arsenic	9.86	mg/kg	0.967	0.967	1	11/18/01	17:03	C.Johnson	6010B	804
Lead	4.45	mg/kg	0.967	0.967	1	11/18/01	17:03	C.Johnson	6010B	804

All metals analysis are total.

LABORATORY COMMENTS:

ND = Not detected at the report limit.

= Recovery outside Laboratory historical or method prescribed limits.

All results reported on a wet weight basis.

End of Sample Report.

TestAmerica
INCORPORATED

ANALYTICAL REPORT

KERAMIDA ENVIRONMENTAL 6028
KRISTEN BELLCREDI
330 N. COLLEGE AVENUE
INDIANAPOLIS, IN 46202

Project: 2961B
Project Name: WABASH NATIONAL
Sampler: GREG HEUER

Lab Number: 01-A163516
Sample ID: KB-10 1.5-2.0'
Sample Type: Soil
Site ID:

Date Collected: 11/12/01
Time Collected: 11:00
Date Received: 11/14/01
Time Received: 9:00
Page: 1

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Date	Time	Analyst	Method	Batch
METALS										
Arsenic	7.62	mg/kg	1.00	1.00	1	11/18/01	17:03	C.Johnson	6010B	804
Lead	177.	mg/kg	1.00	1.00	1	11/18/01	17:03	C.Johnson	6010B	804

All metals analysis are total.

LABORATORY COMMENTS:

ND = Not detected at the report limit.

= Recovery outside Laboratory historical or method prescribed limits.

All results reported on a wet weight basis.

End of Sample Report.

TestAmerica
INCORPORATED

ANALYTICAL REPORT

KERAMIDA ENVIRONMENTAL 6028
KRISTEN BELLCREDI
330 N. COLLEGE AVENUE
INDIANAPOLIS, IN 46202

Project: 2961B
Project Name: WABASH NATIONAL
Sampler: GREG HEUER

Lab Number: 01-A163517
Sample ID: KB-11 2.5-3.0'
Sample Type: Soil
Site ID:

Date Collected: 11/12/01
Time Collected: 11:39
Date Received: 11/14/01
Time Received: 9:00
Page: 1

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Date	Time	Analyst	Method	Batch
METALS										
Arsenic	9.26	mg/kg	1.01	1.00	1	11/18/01	17:03	C.Johnson	6010B	804
Lead	6.04	mg/kg	1.01	1.00	1	11/18/01	17:03	C.Johnson	6010B	804

All metals analysis are total.

LABORATORY COMMENTS:

ND = Not detected at the report limit.

= Recovery outside Laboratory historical or method prescribed limits.

All results reported on a wet weight basis.

End of Sample Report.

TestAmerica
INCORPORATED

ANALYTICAL REPORT

KERAMIDA ENVIRONMENTAL 6028
KRISTEN BELLCREDI
330 N. COLLEGE AVENUE
INDIANAPOLIS, IN 46202

Project: 2961B
Project Name: WABASH NATIONAL
Sampler: GREG HEUER

Lab Number: 01-A163518
Sample ID: KB-11 8.0-8.5'
Sample Type: Soil
Site ID:

Date Collected: 11/12/01
Time Collected: 12:00
Date Received: 11/14/01
Time Received: 9:00
Page: 1

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Date	Time	Analyst	Method	Batch
METALS										
Arsenic	9.07	mg/kg	0.965	0.965	1	11/18/01	17:03	C.Johnson	6010B	804
Lead	4.05	mg/kg	0.965	0.965	1	11/18/01	17:03	C.Johnson	6010B	804

All metals analysis are total.

LABORATORY COMMENTS:

ND = Not detected at the report limit.

= Recovery outside Laboratory historical or method prescribed limits.

All results reported on a wet weight basis.

End of Sample Report.

TestAmerica
INCORPORATED

ANALYTICAL REPORT

KERAMIDA ENVIRONMENTAL 6028
KRISTEN BELLCREDI
330 N. COLLEGE AVENUE
INDIANAPOLIS, IN 46202

Project: 2961B
Project Name: WABASH NATIONAL
Sampler: GREG HEUER

Lab Number: 01-A163519
Sample ID: KB-12-2.5-3.0'
Sample Type: Soil
Site ID:

Date Collected: 11/12/01
Time Collected: 14:20
Date Received: 11/14/01
Time Received: 9:00
Page: 1

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Date	Time	Analyst	Method	Batch
METALS										
Arsenic	10.7	mg/kg	0.956	0.956	1	11/18/01	17:03	C.Johnson	6010B	804
Lead	4.59	mg/kg	0.956	0.956	1	11/18/01	17:03	C.Johnson	6010B	804

All metals analysis are total.

LABORATORY COMMENTS:

ND = Not detected at the report limit.

= Recovery outside Laboratory historical or method prescribed limits.

All results reported on a wet weight basis.

End of Sample Report.

TestAmerica
INCORPORATED

ANALYTICAL REPORT

KERAMIDA ENVIRONMENTAL 6028
KRISTEN BELLCREDI
330 N. COLLEGE AVENUE
INDIANAPOLIS, IN 46202

Project: 2961B
Project Name: WABASH NATIONAL
Sampler: GREG HEUER

Lab Number: 01-A163520
Sample ID: KB-12 8.0-8.5'
Sample Type: Soil
Site ID:

Date Collected: 11/12/01
Time Collected: 14:45
Date Received: 11/14/01
Time Received: 9:00
Page: 1

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Date	Time	Analyst	Method	Batch
METALS										
Arsenic	9.88	mg/kg	0.969	0.969	1	11/18/01	17:03	C.Johnson	6010B	804
Lead	4.07	mg/kg	0.969	0.969	1	11/18/01	17:03	C.Johnson	6010B	804

All metals analysis are total.

LABORATORY COMMENTS:

ND = Not detected at the report limit.

= Recovery outside Laboratory historical or method prescribed limits.

All results reported on a wet weight basis.

End of Sample Report.

TestAmerica
INCORPORATED

ANALYTICAL REPORT

KERAMIDA ENVIRONMENTAL 6028
KRISTEN BELLCREDI
330 N. COLLEGE AVENUE
INDIANAPOLIS, IN 46202

Project: 2961B
Project Name: WABASH NATIONAL
Sampler: GREG HEUER

Lab Number: 01-A163521
Sample ID: KB-13 2.5-3.0'
Sample Type: Soil
Site ID:

Date Collected: 11/13/01
Time Collected: 8:40
Date Received: 11/14/01
Time Received: 9:00
Page: 1

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Date	Time	Analyst	Method	Batch
METALS										
Arsenic	7.85	mg/kg	1.01	1.00	1	11/18/01	17:03	C.Johnson	6010B	804

All metals analysis are total.

LABORATORY COMMENTS:

ND = Not detected at the report limit.

= Recovery outside Laboratory historical or method prescribed limits.

All results reported on a wet weight basis.

End of Sample Report.

TestAmerica
INCORPORATED

ANALYTICAL REPORT

KERAMIDA ENVIRONMENTAL 6028
KRISTEN BELLCREDI
330 N. COLLEGE AVENUE
INDIANAPOLIS, IN 46202

Project: 2961B
Project Name: WABASH NATIONAL
Sampler: GREG HEUER

Lab Number: 01-A163522
Sample ID: KB-13 10.0-10.5'
Sample Type: Soil
Site ID:

Date Collected: 11/13/01
Time Collected: 9:00
Date Received: 11/14/01
Time Received: 9:00
Page: 1

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Date	Time	Analyst	Method	Batch
METALS										
Arsenic	6.69	mg/kg	0.984	0.984	1	11/18/01	17:03	C.Johnson	6010B	804

All metals ananlysis are total.

LABORATORY COMMENTS:

ND = Not detected at the report limit.

= Recovery outside Laboratory historical or method prescribed limits.

All results reported on a wet weight basis.

End of Sample Report.

TestAmerica
INCORPORATED

ANALYTICAL REPORT

KERAMIDA ENVIRONMENTAL 6028
KRISTEN BELLCREDI
330 N. COLLEGE AVENUE
INDIANAPOLIS, IN 46202

Project: 2961B
Project Name: WABASH NATIONAL
Sampler: GREG HEUER

Lab Number: 01-A163523
Sample ID: KB-14 2.5-3.0'
Sample Type: Soil
Site ID:

Date Collected: 11/13/01
Time Collected: 9:13
Date Received: 11/14/01
Time Received: 9:00
Page: 1

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Date	Time	Analyst	Method	Batch
METALS										
Arsenic	8.52	mg/kg	0.990	0.990	1	11/18/01	17:03	C.Johnson	6010B	804

All metals analysis are total.

LABORATORY COMMENTS:

ND = Not detected at the report limit.

= Recovery outside Laboratory historical or method prescribed limits.

All results reported on a wet weight basis.

End of Sample Report.

TestAmerica
INCORPORATED

ANALYTICAL REPORT

KERAMIDA ENVIRONMENTAL 6028
KRISTEN BELLCREDI
330 N. COLLEGE AVENUE
INDIANAPOLIS, IN 46202

Project: 2961B
Project Name: WABASH NATIONAL
Sampler: GREG HEUER

Lab Number: 01-A163524
Sample ID: KB-14 4.0-4.5'
Sample Type: Soil
Site ID:

Date Collected: 11/13/01
Time Collected: 9:20
Date Received: 11/14/01
Time Received: 9:00
Page: 1

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Date	Time	Analyst	Method	Batch
EXTRACTABLE ORGANICS										
Acenaphthene	ND	mg/kg	0.330	0.330	1	11/18/01	3:54	T McCollum	8270C	2420
Acenaphthylene	ND	mg/kg	0.330	0.330	1	11/18/01	3:54	T McCollum	8270C	2420
Anthracene	ND	mg/kg	0.330	0.330	1	11/18/01	3:54	T McCollum	8270C	2420
Benzo(a)anthracene	ND	mg/kg	0.330	0.330	1	11/18/01	3:54	T McCollum	8270C	2420
Benzo(a)pyrene	ND	mg/kg	0.330	0.330	1	11/18/01	3:54	T McCollum	8270C	2420
Benzo(b)fluoranthene	ND	mg/kg	0.330	0.330	1	11/18/01	3:54	T McCollum	8270C	2420
Benzo(g,h,i)perylene	ND	mg/kg	0.330	0.330	1	11/18/01	3:54	T McCollum	8270C	2420
Benzo(k)fluoranthene	ND	mg/kg	0.330	0.330	1	11/18/01	3:54	T McCollum	8270C	2420
4-Bromophenylphenylether	ND	mg/kg	0.330	0.330	1	11/18/01	3:54	T McCollum	8270C	2420
Butylbenzylphthalate	ND	mg/kg	0.330	0.330	1	11/18/01	3:54	T McCollum	8270C	2420
Carbazole	ND	mg/kg	0.330	0.330	1	11/18/01	3:54	T McCollum	8270C	2420
4-Chloro-3-methylphenol	ND	mg/kg	0.330	0.330	1	11/18/01	3:54	T McCollum	8270C	2420
4-Chloroaniline	ND	mg/kg	0.330	0.330	1	11/18/01	3:54	T McCollum	8270C	2420
bis(2-Chloroethoxy)methane	ND	mg/kg	0.330	0.330	1	11/18/01	3:54	T McCollum	8270C	2420
bis(2-Chloroethyl)ether	ND	mg/kg	0.330	0.330	1	11/18/01	3:54	T McCollum	8270C	2420
bis(2-Chloroisopropyl)ether	ND	mg/kg	0.330	0.330	1	11/18/01	3:54	T McCollum	8270C	2420
2-Chloronaphthalene	ND	mg/kg	0.330	0.330	1	11/18/01	3:54	T McCollum	8270C	2420
2-Chlorophenol	ND	mg/kg	0.330	0.330	1	11/18/01	3:54	T McCollum	8270C	2420
4-Chlorophenylphenylether	ND	mg/kg	0.330	0.330	1	11/18/01	3:54	T McCollum	8270C	2420
Chrysene	ND	mg/kg	0.330	0.330	1	11/18/01	3:54	T McCollum	8270C	2420
Dibenzofuran	ND	mg/kg	0.330	0.330	1	11/18/01	3:54	T McCollum	8270C	2420
Dibenz(a,h)anthracene	ND	mg/kg	0.330	0.330	1	11/18/01	3:54	T McCollum	8270C	2420
1,2-Dichlorobenzene	ND	mg/kg	0.330	0.330	1	11/18/01	3:54	T McCollum	8270C	2420
1,3-Dichlorobenzene	ND	mg/kg	0.330	0.330	1	11/18/01	3:54	T McCollum	8270C	2420

Sample report continued . . .

TestAmerica
INCORPORATED

ANALYTICAL REPORT

Laboratory Number: 01-A163524
Sample ID: KB-14 4.0-4.5'
Project: 2961B
Page 2

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Date	Time	Analyst	Method	Batch
1,4-Dichlorobenzene	ND	mg/kg	0.330	0.330	1	11/18/01	3:54	T McCollum	8270C	2420
3,3'-Dichlorobenzidine	ND	mg/kg	0.330	0.330	1	11/18/01	3:54	T McCollum	8270C	2420
2,4-Dichlorophenol	ND	mg/kg	0.330	0.330	1	11/18/01	3:54	T McCollum	8270C	2420
Diethylphthalate	ND	mg/kg	0.330	0.330	1	11/18/01	3:54	T McCollum	8270C	2420
2,4-Dimethylphenol	ND	mg/kg	0.330	0.330	1	11/18/01	3:54	T McCollum	8270C	2420
Dimethylphthalate	ND	mg/kg	0.330	0.330	1	11/18/01	3:54	T McCollum	8270C	2420
Di-n-butylphthalate	ND	mg/kg	0.330	0.330	1	11/18/01	3:54	T McCollum	8270C	2420
4,6-Dinitro-2-methylphenol	ND	mg/kg	0.330	0.330	1	11/18/01	3:54	T McCollum	8270C	2420
2,4-Dinitrophenol	ND	mg/kg	0.330	0.330	1	11/18/01	3:54	T McCollum	8270C	2420
2,4-dinitrotoluene	ND	mg/kg	0.330	0.330	1	11/18/01	3:54	T McCollum	8270C	2420
2,6-Dinitrotoluene	ND	mg/kg	0.330	0.330	1	11/18/01	3:54	T McCollum	8270C	2420
Di-n-octylphthalate	ND	mg/kg	0.330	0.330	1	11/18/01	3:54	T McCollum	8270C	2420
Fluoranthene	ND	mg/kg	0.330	0.330	1	11/18/01	3:54	T McCollum	8270C	2420
Fluorene	ND	mg/kg	0.330	0.330	1	11/18/01	3:54	T McCollum	8270C	2420
Hexachlorobenzene	ND	mg/kg	0.330	0.330	1	11/18/01	3:54	T McCollum	8270C	2420
Hexachlorobutadiene	ND	mg/kg	0.330	0.330	1	11/18/01	3:54	T McCollum	8270C	2420
Hexachlorocyclopentadiene	ND	mg/kg	0.330	0.330	1	11/18/01	3:54	T McCollum	8270C	2420
Hexachloroethane	ND	mg/kg	0.330	0.330	1	11/18/01	3:54	T McCollum	8270C	2420
Indeno(1,2,3-cd)pyrene	ND	mg/kg	0.330	0.330	1	11/18/01	3:54	T McCollum	8270C	2420
Isophorone	ND	mg/kg	0.330	0.330	1	11/18/01	3:54	T McCollum	8270C	2420
2-Methylnaphthalene	ND	mg/kg	0.330	0.330	1	11/18/01	3:54	T McCollum	8270C	2420
2-Methylphenol	ND	mg/kg	0.330	0.330	1	11/18/01	3:54	T McCollum	8270C	2420
m,p-Methylphenol	ND	mg/kg	0.330	0.330	1	11/18/01	3:54	T McCollum	8270C	2420
Naphthalene	ND	mg/kg	0.330	0.330	1	11/18/01	3:54	T McCollum	8270C	2420
2-Nitroaniline	ND	mg/kg	0.330	0.330	1	11/18/01	3:54	T McCollum	8270C	2420
3-Nitroaniline	ND	mg/kg	0.330	0.330	1	11/18/01	3:54	T McCollum	8270C	2420
4-Nitroaniline	ND	mg/kg	0.330	0.330	1	11/18/01	3:54	T McCollum	8270C	2420
Nitrobenzene	ND	mg/kg	0.330	0.330	1	11/18/01	3:54	T McCollum	8270C	2420
2-Nitrophenol	ND	mg/kg	0.330	0.330	1	11/18/01	3:54	T McCollum	8270C	2420
4-Nitrophenol	ND	mg/kg	0.330	0.330	1	11/18/01	3:54	T McCollum	8270C	2420
N-nitrosodi-n-propylamine	ND	mg/kg	0.330	0.330	1	11/18/01	3:54	T McCollum	8270C	2420
N-nitrosodiphenylamine	ND	mg/kg	0.330	0.330	1	11/18/01	3:54	T McCollum	8270C	2420
Pentachlorophenol	ND	mg/kg	0.330	0.330	1	11/18/01	3:54	T McCollum	8270C	2420
Phenanthrene	ND	mg/kg	0.330	0.330	1	11/18/01	3:54	T McCollum	8270C	2420

Sample report continued . . .

TestAmerica
INCORPORATED

ANALYTICAL REPORT

Laboratory Number: 01-A163524
Sample ID: KB-14 4.0-4.5'
Project: 2961B
Page 3

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Date	Time	Analyst	Method	Batch
Phenol	ND	mg/kg	0.330	0.330	1	11/18/01	3:54	T McCollum	8270C	2420
Pyrene	ND	mg/kg	0.330	0.330	1	11/18/01	3:54	T McCollum	8270C	2420
Bis(2-ethylhexyl)phthalate	ND	mg/kg	0.330	0.330	1	11/18/01	3:54	T McCollum	8270C	2420
1,2,4-Trichlorobenzene	ND	mg/kg	0.330	0.330	1	11/18/01	3:54	T McCollum	8270C	2420
2,4,5-Trichlorophenol	ND	mg/kg	0.330	0.330	1	11/18/01	3:54	T McCollum	8270C	2420
2,4,6-Trichlorophenol	ND	mg/kg	0.330	0.330	1	11/18/01	3:54	T McCollum	8270C	2420
VOLATILE ORGANICS										
Acetone	0.0822	mg/kg	0.0500	0.0500	1	11/21/01	10:38	J.Gott	8260B	3381
Benzene	0.0165	mg/kg	0.0020	0.0020	1	11/21/01	10:38	J.Gott	8260B	3381
Bromobenzene	ND	mg/kg	0.0020	0.0020	1	11/21/01	10:38	J.Gott	8260B	3381
Bromochloromethane	ND	mg/kg	0.0020	0.0020	1	11/21/01	10:38	J.Gott	8260B	3381
Bromoform	ND	mg/kg	0.0020	0.0020	1	11/21/01	10:38	J.Gott	8260B	3381
Bromomethane	ND	mg/kg	0.0020	0.0020	1	11/21/01	10:38	J.Gott	8260B	3381
2-Butanone	ND	mg/kg	0.0500	0.0500	1	11/21/01	10:38	J.Gott	8260B	3381
n-Butylbenzene	ND	mg/kg	0.0020	0.0020	1	11/21/01	10:38	J.Gott	8260B	3381
sec-Butylbenzene	ND	mg/kg	0.0020	0.0020	1	11/21/01	10:38	J.Gott	8260B	3381
t-Butylbenzene	ND	mg/kg	0.0020	0.0020	1	11/21/01	10:38	J.Gott	8260B	3381
Carbon disulfide	ND	mg/kg	0.0020	0.0020	1	11/21/01	10:38	J.Gott	8260B	3381
Carbon tetrachloride	ND	mg/kg	0.0020	0.0020	1	11/21/01	10:38	J.Gott	8260B	3381
Chlorobenzene	ND	mg/kg	0.0020	0.0020	1	11/21/01	10:38	J.Gott	8260B	3381
Chloroethane	ND	mg/kg	0.0020	0.0020	1	11/21/01	10:38	J.Gott	8260B	3381
Chloroform	ND	mg/kg	0.0020	0.0020	1	11/21/01	10:38	J.Gott	8260B	3381
Chloromethane	ND	mg/kg	0.0020	0.0020	1	11/21/01	10:38	J.Gott	8260B	3381
2-Chlorotoluene	ND	mg/kg	0.0020	0.0020	1	11/21/01	10:38	J.Gott	8260B	3381
4-Chlorotoluene	ND	mg/kg	0.0020	0.0020	1	11/21/01	10:38	J.Gott	8260B	3381
1,2-Dibromo-3-chloropropane	ND	mg/kg	0.0100	0.0100	1	11/21/01	10:38	J.Gott	8260B	3381
Dibromochloromethane	ND	mg/kg	0.0020	0.0020	1	11/21/01	10:38	J.Gott	8260B	3381
1,2-Dibromoethane	ND	mg/kg	0.0020	0.0020	1	11/21/01	10:38	J.Gott	8260B	3381
Dibromomethane	ND	mg/kg	0.0020	0.0020	1	11/21/01	10:38	J.Gott	8260B	3381
1,2-Dichlorobenzene	ND	mg/kg	0.0020	0.0020	1	11/21/01	10:38	J.Gott	8260B	3381
1,3-Dichlorobenzene	ND	mg/kg	0.0020	0.0020	1	11/21/01	10:38	J.Gott	8260B	3381
1,4-Dichlorobenzene	ND	mg/kg	0.0020	0.0020	1	11/21/01	10:38	J.Gott	8260B	3381
Dichlorodifluoromethane	ND	mg/kg	0.0020	0.0020	1	11/21/01	10:38	J.Gott	8260B	3381

Sample report continued . . .

TestAmerica
INCORPORATED

ANALYTICAL REPORT

Laboratory Number: 01-A163524
Sample ID: KB-14 4.0-4.5'
Project: 2961B
Page 4

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Date	Time	Analyst	Method	Batch
1,1-Dichloroethane	ND	mg/kg	0.0020	0.0020	1	11/21/01	10:38	J.Gott	8260B	3381
1,2-Dichloroethane	ND	mg/kg	0.0020	0.0020	1	11/21/01	10:38	J.Gott	8260B	3381
1,1-Dichloroethene	ND	mg/kg	0.0020	0.0020	1	11/21/01	10:38	J.Gott	8260B	3381
cis-1,2-Dichloroethene	ND	mg/kg	0.0020	0.0020	1	11/21/01	10:38	J.Gott	8260B	3381
trans-1,2-Dichloroethene	ND	mg/kg	0.0020	0.0020	1	11/21/01	10:38	J.Gott	8260B	3381
1,2-Dichloropropane	ND	mg/kg	0.0020	0.0020	1	11/21/01	10:38	J.Gott	8260B	3381
1,3-Dichloropropane	ND	mg/kg	0.0020	0.0020	1	11/21/01	10:38	J.Gott	8260B	3381
2,2-Dichloropropane	ND	mg/kg	0.0020	0.0020	1	11/21/01	10:38	J.Gott	8260B	3381
1,1-Dichloropropene	ND	mg/kg	0.0020	0.0020	1	11/21/01	10:38	J.Gott	8260B	3381
cis-1,3-Dichloropropene	ND	mg/kg	0.0020	0.0020	1	11/21/01	10:38	J.Gott	8260B	3381
trans-1,3-Dichloropropene	ND	mg/kg	0.0020	0.0020	1	11/21/01	10:38	J.Gott	8260B	3381
Ethylbenzene	0.0065	mg/kg	0.0020	0.0020	1	11/21/01	10:38	J.Gott	8260B	3381
Hexachlorobutadiene	ND	mg/kg	0.0020	0.0020	1	11/21/01	10:38	J.Gott	8260B	3381
2-Hexanone	ND	mg/kg	0.0100	0.0100	1	11/21/01	10:38	J.Gott	8260B	3381
Isopropylbenzene	0.0046	mg/kg	0.0020	0.0020	1	11/21/01	10:38	J.Gott	8260B	3381
4-Isopropyltoluene	ND	mg/kg	0.0020	0.0020	1	11/21/01	10:38	J.Gott	8260B	3381
4-Methyl-2-pentanone	ND	mg/kg	0.0100	0.0100	1	11/21/01	10:38	J.Gott	8260B	3381
Methylene chloride	ND	mg/kg	0.0050	0.0050	1	11/21/01	10:38	J.Gott	8260B	3381
Naphthalene	ND	mg/kg	0.0050	0.0050	1	11/21/01	10:38	J.Gott	8260B	3381
n-Propylbenzene	0.0020	mg/kg	0.0020	0.0020	1	11/21/01	10:38	J.Gott	8260B	3381
Styrene	ND	mg/kg	0.0020	0.0020	1	11/21/01	10:38	J.Gott	8260B	3381
1,1,1,2-Tetrachloroethane	ND	mg/kg	0.0020	0.0020	1	11/21/01	10:38	J.Gott	8260B	3381
1,1,2,2-Tetrachloroethane	ND	mg/kg	0.0020	0.0020	1	11/21/01	10:38	J.Gott	8260B	3381
Tetrachloroethene	0.0045	mg/kg	0.0020	0.0020	1	11/21/01	10:38	J.Gott	8260B	3381
Toluene	0.0240	mg/kg	0.0020	0.0020	1	11/21/01	10:38	J.Gott	8260B	3381
1,2,3-Trichlorobenzene	ND	mg/kg	0.0020	0.0020	1	11/21/01	10:38	J.Gott	8260B	3381
1,2,4-Trichlorobenzene	ND	mg/kg	0.0020	0.0020	1	11/21/01	10:38	J.Gott	8260B	3381
1,1,1-Trichloroethane	ND	mg/kg	0.0020	0.0020	1	11/21/01	10:38	J.Gott	8260B	3381
1,1,2-Trichloroethane	ND	mg/kg	0.0020	0.0020	1	11/21/01	10:38	J.Gott	8260B	3381
Trichloroethene	ND	mg/kg	0.0020	0.0020	1	11/21/01	10:38	J.Gott	8260B	3381
1,2,3-Trichloropropane	ND	mg/kg	0.0020	0.0020	1	11/21/01	10:38	J.Gott	8260B	3381
1,2,4-Trimethylbenzene	0.0054	mg/kg	0.0020	0.0020	1	11/21/01	10:38	J.Gott	8260B	3381
1,3,5-Trimethylbenzene	0.0046	mg/kg	0.0020	0.0020	1	11/21/01	10:38	J.Gott	8260B	3381
Vinyl chloride	ND	mg/kg	0.0020	0.0020	1	11/21/01	10:38	J.Gott	8260B	3381

Sample report continued . . .

TestAmerica
INCORPORATED

ANALYTICAL REPORT

Laboratory Number: 01-A163524
Sample ID: KB-14 4.0-4.5'
Project: 2961B

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Date	Time	Analyst	Method	Batch
Xylenes, Total	0.0128	mg/kg	0.0020	0.0020	1	11/21/01	10:38	J.Gott	8260B	3381
Bromodichloromethane	ND	mg/kg	0.0020	0.0020	1	11/21/01	10:38	J.Gott	8260B	3381
Trichlorofluoromethane	ND	mg/kg	0.0020	0.0020	1	11/21/01	10:38	J.Gott	8260B	3381
PESTICIDE/PCB's/HERBICIDES										
Aroclor 1016	ND	mg/kg	0.0200	0.0200	1	11/17/01	19:52	M. Cauthen	8082	1594
Aroclor 1221	ND	mg/kg	0.0200	0.0200	1	11/17/01	19:52	M. Cauthen	8082	1594
Aroclor 1232	ND	mg/kg	0.0200	0.0200	1	11/17/01	19:52	M. Cauthen	8082	1594
Aroclor 1242	ND	mg/kg	0.0200	0.0200	1	11/17/01	19:52	M. Cauthen	8082	1594
Aroclor 1248	ND	mg/kg	0.0200	0.0200	1	11/17/01	19:52	M. Cauthen	8082	1594
Aroclor 1254	ND	mg/kg	0.0200	0.0200	1	11/17/01	19:52	M. Cauthen	8082	1594
Aroclor 1260	ND	mg/kg	0.0200	0.0200	1	11/17/01	19:52	M. Cauthen	8082	1594
METALS										
Arsenic	9.62	mg/kg	0.962	0.962	1	11/18/01	17:03	C.Johnson	6010B	804
Barium	132.	mg/kg	0.962	0.962	1	11/18/01	17:03	C.Johnson	6010B	804
Cadmium	ND	mg/kg	0.962	0.962	1	11/18/01	17:03	C.Johnson	6010B	804
Chromium	26.7	mg/kg	0.962	0.962	1	11/18/01	17:03	C.Johnson	6010B	804
Lead	17.9	mg/kg	0.962	0.962	1	11/18/01	17:03	C.Johnson	6010B	804
Mercury	0.157	mg/kg	0.096	0.096	1	11/20/01	10:52	W. Choate	7471A	2265
Selenium	ND	mg/kg	0.962	0.962	1	11/18/01	17:03	C.Johnson	6010B	804
Silver	ND	mg/kg	0.962	0.962	1	11/18/01	17:03	C.Johnson	6010B	804

All metals analysis are total.

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Time	Analyst	Method
BNA's	30.2 gm	1.0 ml	11/15/01		D.Yeager	3550

Sample report continued . . .

TestAmerica
INCORPORATED

ANALYTICAL REPORT

Laboratory Number: 01-A163524
Sample ID: KB-14 4.0-4.5'
Project: 2961B
Page 6

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Time	Analyst	Method
PCB's	30.1 gm	10.0 ml	11/15/01		D. Harris	3550

Surrogate	% Recovery	Target Range
VOA Surr 1,2-DCA-d4	114.	56. - 145.
VOA Surr Toluene-d8	93.	71. - 137.
VOA Surr, 4-BFB	117.	72. - 141.
VOA Surr, DBFM	110.	69. - 134.
BNA Surr-Nitrobenzene-d5	61.	15. - 126.
BNA Surr-2-Fluorobiphenyl	68.	22. - 119.
BNA Surr-Terphenyl-d14	67.	25. - 147.
BNA Surr-Phenol-d5	66.	10. - 130.
BNA Surr-2-Fluorophenol	62.	2. - 159.
BNA Surr-2,4,6-Tribromophenol	80.	22. - 152.
pcb surr-TCMX	114.	49. - 132.
8082 Surr DCB,s	100.	10. - 110.

LABORATORY COMMENTS:

ND = Not detected at the report limit.

= Recovery outside Laboratory historical or method prescribed limits.

All results reported on a wet weight basis.

End of Sample Report.

TestAmerica
INCORPORATED

ANALYTICAL REPORT

KERAMIDA ENVIRONMENTAL 6028
KRISTEN BELLCREDI
330 N. COLLEGE AVENUE
INDIANAPOLIS, IN 46202

Project: 2961B
Project Name: WABASH NATIONAL
Sampler: GREG HEUER

Lab Number: 01-A163525
Sample ID: KB-14 10.0-10.5'
Sample Type: Soil
Site ID:

Date Collected: 11/13/01
Time Collected: 9:55
Date Received: 11/14/01
Time Received: 9:00
Page: 1

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Date	Time	Analyst	Method	Batch
METALS										
Arsenic	5.71	mg/kg	0.984	0.984	1	11/18/01	17:03	C.Johnson	6010B	804

All metals analysis are total.

LABORATORY COMMENTS:

ND = Not detected at the report limit.

= Recovery outside Laboratory historical or method prescribed limits.

All results reported on a wet weight basis.

End of Sample Report.

TestAmerica
INCORPORATED

ANALYTICAL REPORT

KERAMIDA ENVIRONMENTAL 6028
KRISTEN BELLCREDI
330 N. COLLEGE AVENUE
INDIANAPOLIS, IN 46202

Project: 2961B
Project Name: WABASH NATIONAL
Sampler: GREG HEUER

Lab Number: 01-A163526
Sample ID: KB-15 2.5-3.0'
Sample Type: Soil
Site ID:

Date Collected: 11/13/01
Time Collected: 10:10
Date Received: 11/14/01
Time Received: 9:00
Page: 1

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Date	Time	Analyst	Method	Batch
METALS										
Arsenic	6.67	mg/kg	0.980	0.980	1	11/18/01	17:03	C.Johnson	6010B	804

All metals analysis are total.

LABORATORY COMMENTS:

ND = Not detected at the report limit.

= Recovery outside Laboratory historical or method prescribed limits.

All results reported on a wet weight basis.

End of Sample Report.

TestAmerica
INCORPORATED

ANALYTICAL REPORT

KERAMIDA ENVIRONMENTAL 6028
KRISTEN BELLCREDI
330 N. COLLEGE AVENUE
INDIANAPOLIS, IN 46202

Project: 2961B
Project Name: WABASH NATIONAL
Sampler: GREG HEUER

Lab Number: 01-A163527
Sample ID: KB-15 10.0-10.5'
Sample Type: Soil
Site ID:

Date Collected: 11/13/01
Time Collected: 10:25
Date Received: 11/14/01
Time Received: 9:00
Page: 1

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Date	Time	Analyst	Method	Batch
METALS										
Arsenic	8.43	mg/kg	1.00	1.00	1	11/18/01	17:03	C.Johnson	6010B	804

All metals analysis are total.

LABORATORY COMMENTS:

ND = Not detected at the report limit.

= Recovery outside Laboratory historical or method prescribed limits.

All results reported on a wet weight basis.

End of Sample Report.

TestAmerica
INCORPORATED

ANALYTICAL REPORT

KERAMIDA ENVIRONMENTAL 6028
KRISTEN BELLCREDI
330 N. COLLEGE AVENUE
INDIANAPOLIS, IN 46202

Project: 2961B
Project Name: WABASH NATIONAL
Sampler: GREG HEUER

Lab Number: 01-A163528
Sample ID: KB-16 2.5-3.0'
Sample Type: Soil
Site ID:

Date Collected: 11/13/01
Time Collected: 10:35
Date Received: 11/14/01
Time Received: 9:00
Page: 1

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Date	Time	Analyst	Method	Batch
METALS										
Arsenic	10.2	mg/kg	1.00	1.00	1	11/18/01	17:03	C.Johnson	6010B	804

All metals analysis are total.

LABORATORY COMMENTS:

ND = Not detected at the report limit.

= Recovery outside Laboratory historical or method prescribed limits.

All results reported on a wet weight basis.

End of Sample Report.

TestAmerica
INCORPORATED

ANALYTICAL REPORT

KERAMIDA ENVIRONMENTAL 6028
KRISTEN BELLCREDI
330 N. COLLEGE AVENUE
INDIANAPOLIS, IN 46202

Project: 2961B
Project Name: WABASH NATIONAL
Sampler: GREG HEUER

Lab Number: 01-A163529
Sample ID: KB-16 10.0-10.5'
Sample Type: Soil
Site ID:

Date Collected: 11/13/01
Time Collected: 10:49
Date Received: 11/14/01
Time Received: 9:00
Page: 1

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Date	Time	Analyst	Method	Batch
METALS										
Arsenic	6.48	mg/kg	0.982	0.982	1	11/18/01	17:03	C.Johnson	6010B	804

All metals analysis are total.

LABORATORY COMMENTS:

ND = Not detected at the report limit.

= Recovery outside Laboratory historical or method prescribed limits.

All results reported on a wet weight basis.

End of Sample Report.

TestAmerica
INCORPORATED

ANALYTICAL REPORT

KERAMIDA ENVIRONMENTAL 6028
KRISTEN BELLCREDI
330 N. COLLEGE AVENUE
INDIANAPOLIS, IN 46202

Project: 2961B
Project Name: WABASH NATIONAL
Sampler: GREG HEUER

Lab Number: 01-A163530
Sample ID: KB-17 2.5-3.0'
Sample Type: Soil
Site ID:

Date Collected: 11/13/01
Time Collected: 11:10
Date Received: 11/14/01
Time Received: 9:00
Page: 1

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Date	Time	Analyst	Method	Batch
METALS										
Arsenic	10.9	mg/kg	0.960	0.960	1	11/18/01	17:03	C.Johnson	6010B	804

All metals analysis are total.

LABORATORY COMMENTS:

ND = Not detected at the report limit.

= Recovery outside Laboratory historical or method prescribed limits.

All results reported on a wet weight basis.

End of Sample Report.

TestAmerica
INCORPORATED

ANALYTICAL REPORT

KERAMIDA ENVIRONMENTAL 6028
KRISTEN BELLCREDI
330 N. COLLEGE AVENUE
INDIANAPOLIS, IN 46202

Project: 2961B
Project Name: WABASH NATIONAL
Sampler: GREG HEUER

Lab Number: 01-A163531
Sample ID: KB-17 10.0-10.5'
Sample Type: Soil
Site ID:

Date Collected: 11/13/01
Time Collected: 11:22
Date Received: 11/14/01
Time Received: 9:00
Page: 1

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Date	Time	Analyst	Method	Batch
METALS										
Arsenic	7.02	mg/kg	0.975	0.975	1	11/18/01	17:03	C.Johnson	6010B	804

All metals analysis are total.

LABORATORY COMMENTS:

ND = Not detected at the report limit.

= Recovery outside Laboratory historical or method prescribed limits.

All results reported on a wet weight basis.

End of Sample Report.

TestAmerica
INCORPORATED

PROJECT QUALITY CONTROL DATA
Project Number: 2961B
Page: 1

Matrix Spike Recovery

Analyte	units	Orig. Val.	MS Val	Spike Conc	Recovery	Target Range	Q.C. Batch	Spike Sample
VOA PARAMETERS								
Benzene	mg/kg	< 0.0020	0.0438	0.0500	88	58. - 136.	3381	blank
Chlorobenzene	mg/kg	< 0.0020	0.0240	0.0500	48	43. - 140.	3381	blank
1,1-Dichloroethene	mg/kg	< 0.0020	0.0417	0.0500	83	62. - 134.	3381	blank
Toluene	mg/kg	< 0.0020	0.0438	0.0500	88	54. - 139.	3381	blank
Trichloroethene	mg/kg	< 0.0020	0.0486	0.0500	97	51. - 142.	3381	blank

Matrix Spike Recovery

Analyte	units	Orig. Val.	MS Val	Spike Conc	Recovery	Target Range	Q.C. Batch	Spike Sample
EXTRACTABLE PARAMETERS								
Acenaphthene	mg/kg	< 0.330	1.22	1.67	73	29. - 125.	2420	blank
Acenaphthylene	mg/kg	< 0.330	1.35	1.67	81	31. - 122.	2420	blank
Anthracene	mg/kg	< 0.330	1.32	1.67	79	30. - 127.	2420	blank
Benzo(a)anthracene	mg/kg	< 0.330	1.25	1.67	75	34. - 125.	2420	blank
Benzo(a)pyrene	mg/kg	< 0.330	1.32	1.67	79	34. - 129.	2420	blank
Benzo(b)fluoranthene	mg/kg	< 0.330	1.12	1.67	67	33. - 127.	2420	blank
Benzo(g,h,i)perylene	mg/kg	< 0.330	1.22	1.67	73	5. - 146.	2420	blank
Benzo(k)fluoranthene	mg/kg	< 0.330	1.35	1.67	81	31. - 143.	2420	blank
4-Bromophenylphenylether	mg/kg	< 0.330	1.22	1.67	73	25. - 126.	2420	blank
Butylbenzylphthalate	mg/kg	< 0.330	1.22	1.67	73	31. - 136.	2420	blank
Carbazole	mg/kg	< 0.330	1.29	1.67	77	37. - 130.	2420	blank
4-Chloro-3-methylphenol	mg/kg	< 0.330	1.35	1.67	81	29. - 135.	2420	blank
4-Chloroaniline	mg/kg	< 0.330	1.48	1.67	89	24. - 134.	2420	blank
bis(2-Chloroethoxy)methane	mg/kg	< 0.330	1.32	1.67	79	27. - 122.	2420	blank
bis(2-Chloroethyl)ether	mg/kg	< 0.330	1.02	1.67	61	24. - 125.	2420	blank
bis(2-Chloroisopropyl)ether	mg/kg	< 0.330	1.25	1.67	75	24. - 122.	2420	blank
2-Chloronaphthalene	mg/kg	< 0.330	1.25	1.67	75	26. - 119.	2420	blank

Project QC continued . . .

TestAmerica
INCORPORATED

PROJECT QUALITY CONTROL DATA
Project Number: 2961B
Page: 2

Matrix Spike Recovery

Analyte	units	Orig. Val.	MS Val	Spike Conc	Recovery	Target Range	Q.C. Batch	Spike Sample
2-Chlorophenol	mg/kg	< 0.330	1.22	1.67	73	25. - 120.	2420	blank
4-Chlorophenylphenylether	mg/kg	< 0.330	1.35	1.67	81	31. - 125.	2420	blank
Chrysene	mg/kg	< 0.330	1.19	1.67	71	34. - 131.	2420	blank
Dibenzofuran	mg/kg	< 0.330	1.29	1.67	77	29. - 121.	2420	blank
Dibenz(a,h)anthracene	mg/kg	< 0.330	1.12	1.67	67	8. - 138.	2420	blank
1,2-Dichlorobenzene	mg/kg	< 0.330	1.35	1.67	81	23. - 117.	2420	blank
1,3-Dichlorobenzene	mg/kg	< 0.330	1.29	1.67	77	22. - 113.	2420	blank
1,4-Dichlorobenzene	mg/kg	< 0.330	1.35	1.67	81	22. - 117.	2420	blank
3,3'-Dichlorobenzidine	mg/kg	< 0.330	1.25	1.67	75	1. - 174.	2420	blank
2,4-Dichlorophenol	mg/kg	< 0.330	1.35	1.67	81	22. - 128.	2420	blank
Diethylphthalate	mg/kg	< 0.330	1.25	1.67	75	38. - 123.	2420	blank
2,4-Dimethylphenol	mg/kg	< 0.330	1.39	1.67	83	16. - 126.	2420	blank
Dimethylphthalate	mg/kg	< 0.330	1.35	1.67	81	37. - 124.	2420	blank
Di-n-butylphthalate	mg/kg	< 0.330	1.35	1.67	81	41. - 127.	2420	blank
4,6-Dinitro-2-methylphenol	mg/kg	< 0.330	1.48	1.67	89	6. - 149.	2420	blank
2,4-Dinitrophenol	mg/kg	< 0.330	1.39	1.67	83	1. - 153.	2420	blank
2,4-dinitrotoluene	mg/kg	< 0.330	1.39	1.67	83	17. - 140.	2420	blank
2,6-Dinitrotoluene	mg/kg	< 0.330	1.39	1.67	83	21. - 140.	2420	blank
Di-n-octylphthalate	mg/kg	< 0.330	1.22	1.67	73	23. - 162.	2420	blank
Fluoranthene	mg/kg	< 0.330	1.39	1.67	83	37. - 127.	2420	blank
Fluorene	mg/kg	< 0.330	1.29	1.67	77	32. - 126.	2420	blank
Hexachlorobenzene	mg/kg	< 0.330	1.45	1.67	87	30. - 127.	2420	blank
Hexachlorobutadiene	mg/kg	< 0.330	1.55	1.67	93	15. - 127.	2420	blank
Hexachlorocyclopentadiene	mg/kg	< 0.330	1.35	1.67	81	1. - 117.	2420	blank
Hexachloroethane	mg/kg	< 0.330	1.19	1.67	71	1. - 133.	2420	blank
Indeno(1,2,3-cd)pyrene	mg/kg	< 0.330	1.22	1.67	73	7. - 138.	2420	blank
Isophorone	mg/kg	< 0.330	1.32	1.67	79	25. - 123.	2420	blank
2-Methylnaphthalene	mg/kg	< 0.330	1.29	1.67	77	8. - 135.	2420	blank
2-Methylphenol	mg/kg	< 0.330	1.29	1.67	77	25. - 128.	2420	blank
m,p-Methylphenol	mg/kg	< 0.330	1.12	1.67	67	28. - 127.	2420	blank
Naphthalene	mg/kg	< 0.330	1.22	1.67	73	18. - 121.	2420	blank
2-Nitroaniline	mg/kg	< 0.330	1.42	1.67	85	13. - 138.	2420	blank
3-Nitroaniline	mg/kg	< 0.330	1.29	1.67	77	17. - 151.	2420	blank

Project QC continued . . .

TestAmerica
INCORPORATED

PROJECT QUALITY CONTROL DATA
Project Number: 2961B
Page: 3

Matrix Spike Recovery

Analyte	units	Orig. Val.	MS Val	Spike Conc	Recovery	Target Range	Q.C. Batch	Spike Sample
4-Nitroaniline	mg/kg	< 0.330	1.48	1.67	89	13. - 153.	2420	blank
Nitrobenzene	mg/kg	< 0.330	1.29	1.67	77	15. - 128.	2420	blank
2-Nitrophenol	mg/kg	< 0.330	1.35	1.67	81	25. - 128.	2420	blank
4-Nitrophenol	mg/kg	< 0.330	1.39	1.67	83	4. - 140.	2420	blank
N-nitrosodi-n-propylamine	mg/kg	< 0.330	1.16	1.67	69	27. - 126.	2420	blank
N-nitrosodiphenylamine	mg/kg	< 0.330	1.29	1.67	77	17. - 133.	2420	blank
Pentachlorophenol	mg/kg	< 0.330	1.52	1.67	91	9. - 139.	2420	blank
Phenanthrene	mg/kg	< 0.330	1.25	1.67	75	30. - 127.	2420	blank
Phenol	mg/kg	< 0.330	1.16	1.67	69	26. - 124.	2420	blank
Pyrene	mg/kg	< 0.330	1.25	1.67	75	27. - 129.	2420	blank
Bis(2-ethylhexyl)phthalate	mg/kg	< 0.330	1.19	1.67	71	27. - 143.	2420	blank
1,2,4-Trichlorobenzene	mg/kg	< 0.330	1.35	1.67	81	17. - 125.	2420	blank
2,4,5-Trichlorophenol	mg/kg	< 0.330	1.45	1.67	87	30. - 128.	2420	blank
2,4,6-Trichlorophenol	mg/kg	< 0.330	1.32	1.67	79	28. - 129.	2420	blank

Matrix Spike Recovery

Analyte	units	Orig. Val.	MS Val	Spike Conc	Recovery	Target Range	Q.C. Batch	Spike Sample
METALS								
Arsenic	mg/kg	9.615	26.772	20.000	86	80 - 120	804	01-A163524
Barium	mg/kg	131.731	500.000	400.000	92	80 - 120	804	01-A163524
Cadmium	mg/kg	< 0.962	17.520	20.000	88	80 - 120	804	01-A163524
Chromium	mg/kg	26.731	57.874	40.000	78#	80 - 120	804	01-A163524
Lead	mg/kg	17.885	110.630	100.000	93	80 - 120	804	01-A163524
Selenium	mg/kg	< 0.962	18.110	20.000	91	80 - 120	804	01-A163524
Silver	mg/kg	< 0.962	6.890	10.000	69#	80 - 120	804	01-A163524

Project QC continued . . .

TestAmerica
INCORPORATED

PROJECT QUALITY CONTROL DATA
Project Number: 2961B
Page: 4

Matrix Spike Recovery

Analyte	units	Orig. Val.	MS Val	Spike Conc	Recovery	Target Range	Q.C. Batch	Spike Sample
MISC PARAMETERS								
Aroclor 1016	mg/kg	< 0.0200	0.2148	0.1667	129	40 - 140	1594	blank
Aroclor 1260	mg/kg	< 0.0200	0.2145	0.1667	129	40 - 140	1594	blank

Matrix Spike Duplicate

Analyte	units	Orig. Val.	Duplicate	RPD	Limit	Q.C. Batch
VOA PARAMETERS						
Benzene	mg/kg	0.0438	0.0435	0.69	30.	3381
Chlorobenzene	mg/kg	0.0240	0.0245	2.06	38.	3381
1,1-Dichloroethene	mg/kg	0.0417	0.0428	2.60	38.	3381
Toluene	mg/kg	0.0438	0.0456	4.03	32.	3381
Trichloroethene	mg/kg	0.0486	0.0473	2.71	35.	3381

Matrix Spike Duplicate

Analyte	units	Orig. Val.	Duplicate	RPD	Limit	Q.C. Batch
EXTRACTABLE PARAMETERS						
Acenaphthene	mg/kg	1.22	1.25	2.43	36.	2420
4-Chloro-3-methylphenol	mg/kg	1.35	1.35	0.00	35.	2420
2-Chlorophenol	mg/kg	1.22	1.32	7.87	39.	2420
1,4-Dichlorobenzene	mg/kg	1.35	1.39	2.92	41.	2420
2,4-dinitrotoluene	mg/kg	1.39	1.39	0.00	41.	2420
4-Nitrophenol	mg/kg	1.39	1.55	10.88	43.	2420
N-nitrosodi-n-propylamine	mg/kg	1.16	1.19	2.55	35.	2420
Pentachlorophenol	mg/kg	1.52	1.52	0.00	61.	2420

Project QC continued . . .

TestAmerica
INCORPORATED

PROJECT QUALITY CONTROL DATA
Project Number: 2961B
Page: 5

Matrix Spike Duplicate

Analyte	units	Orig. Val.	Duplicate	RPD	Limit	Q.C. Batch
Phenol	mg/kg	1.16	1.22	5.04	38.	2420
Pyrene	mg/kg	1.25	1.19	4.92	39.	2420
1,2,4-Trichlorobenzene	mg/kg	1.35	1.35	0.00	42.	2420

Matrix Spike Duplicate

Analyte	units	Orig. Val.	Duplicate	RPD	Limit	Q.C. Batch
METALS						
Arsenic	mg/kg	26.772	27.219	1.66	20	804
Barium	mg/kg	500.000	508.876	1.76	20	804
Cadmium	mg/kg	17.520	17.752	1.32	20	804
Chromium	mg/kg	57.874	53.846	7.21	20	804
Lead	mg/kg	110.630	108.284	2.14	20	804
Mercury	mg/kg	0.810	0.851	4.94	20	2265
Selenium	mg/kg	18.110	16.765	7.71	20	804
Silver	mg/kg	6.890	7.101	3.02	20	804

Matrix Spike Duplicate

Analyte	units	Orig. Val.	Duplicate	RPD	Limit	Q.C. Batch
MISC PARAMETERS						
Aroclor 1016	mg/kg	0.2148	0.2214	3.03	50	1594
Aroclor 1260	mg/kg	0.2145	0.2135	0.47	50	1594

Project QC continued . . .

TestAmerica
INCORPORATED

PROJECT QUALITY CONTROL DATA
Project Number: 2961B
Page: 6

Laboratory Control Data

Analyte	units	Known Val.	Analyzed Val	% Recovery	Target Range	Q.C. Batch

Laboratory Control Data

Analyte	units	Known Val.	Analyzed Val	% Recovery	Target Range	Q.C. Batch
VOA PARAMETERS						
Acetone	mg/kg	0.2500	0.2210	88	45 - 154	3381
Benzene	mg/kg	0.0500	0.0472	94	79 - 127	3381
Bromobenzene	mg/kg	0.0500	0.0462	92	75 - 121	3381
Bromochloromethane	mg/kg	0.0500	0.0490	98	75 - 137	3381
Bromoform	mg/kg	0.0500	0.0516	103	65 - 142	3381
Bromomethane	mg/kg	0.0500	0.0608	122	57 - 139	3381
2-Butanone	mg/kg	0.2500	0.2200	88	57 - 150	3381
n-Butylbenzene	mg/kg	0.0500	0.0326	65	58 - 131	3381
sec-Butylbenzene	mg/kg	0.0500	0.0477	95	72 - 130	3381
t-Butylbenzene	mg/kg	0.0500	0.0429	86	73 - 127	3381
Carbon disulfide	mg/kg	0.0500	0.0466	93	73 - 133	3381
Carbon tetrachloride	mg/kg	0.0500	0.0437	87	79 - 126	3381
Chlorobenzene	mg/kg	0.0500	0.0516	103	78 - 123	3381
Chloroethane	mg/kg	0.0500	0.0488	98	64 - 140	3381
Chloroform	mg/kg	0.0500	0.0452	90	77 - 127	3381
Chloromethane	mg/kg	0.0500	0.0435	87	54 - 146	3381
2-Chlorotoluene	mg/kg	0.0500	0.0452	90	71 - 125	3381
4-Chlorotoluene	mg/kg	0.0500	0.0450	90	67 - 127	3381
1,2-Dibromo-3-chloropropane	mg/kg	0.0500	0.0481	96	57 - 142	3381
Dibromochloromethane	mg/kg	0.0500	0.0502	100	74 - 132	3381
1,2-Dibromoethane	mg/kg	0.0500	0.0500	100	76 - 135	3381
Dibromomethane	mg/kg	0.0500	0.0461	92	77 - 130	3381
1,2-Dichlorobenzene	mg/kg	0.0500	0.0483	97	71 - 126	3381
1,3-Dichlorobenzene	mg/kg	0.0500	0.0459	92	64 - 128	3381
1,4-Dichlorobenzene	mg/kg	0.0500	0.0459	92	62 - 127	3381
Dichlorodifluoromethane	mg/kg	0.0500	0.0399	80	57 - 147	3381

Project QC continued . . .

TestAmerica
INCORPORATED

PROJECT QUALITY CONTROL DATA
Project Number: 2961B
Page: 7

Laboratory Control Data

Analyte	units	Known Val.	Analyzed Val	% Recovery	Target Range	Q.C. Batch
1,1-Dichloroethane	mg/kg	0.0500	0.0480	96	76 - 129	3381
1,2-Dichloroethane	mg/kg	0.0500	0.0423	85	75 - 127	3381
1,1-Dichloroethene	mg/kg	0.0500	0.0453	91	78 - 130	3381
cis-1,2-Dichloroethene	mg/kg	0.0500	0.0461	92	80 - 124	3381
trans-1,2-Dichloroethene	mg/kg	0.0500	0.0447	89	77 - 125	3381
1,2-Dichloropropane	mg/kg	0.0500	0.0516	103	79 - 124	3381
1,3-Dichloropropane	mg/kg	0.0500	0.0445	89	77 - 128	3381
2,2-Dichloropropane	mg/kg	0.0500	0.0426	85	64 - 137	3381
1,1-Dichloropropene	mg/kg	0.0500	0.0458	92	77 - 129	3381
cis-1,3-Dichloropropene	mg/kg	0.0500	0.0485	97	75 - 126	3381
trans-1,3-Dichloropropene	mg/kg	0.0500	0.0485	97	75 - 125	3381
Ethylbenzene	mg/kg	0.0500	0.0495	99	78 - 126	3381
Hexachlorobutadiene	mg/kg	0.0500	0.0465	93	58 - 135	3381
2-Hexanone	mg/kg	0.2500	0.2200	88	59 - 147	3381
Isopropylbenzene	mg/kg	0.0500	0.0449	90	75 - 127	3381
4-Isopropyltoluene	mg/kg	0.0500	0.0429	86	67 - 113	3381
4-Methyl-2-pentanone	mg/kg	0.2500	0.2230	89	60 - 149	3381
Methylene chloride	mg/kg	0.0500	0.0398	80	74 - 134	3381
Naphthalene	mg/kg	0.0500	0.0224	45 #	62 - 139	3381
n-Propylbenzene	mg/kg	0.0500	0.0469	94	71 - 127	3381
Styrene	mg/kg	0.0500	0.0510	102	75 - 128	3381
1,1,1,2-Tetrachloroethane	mg/kg	0.0500	0.0518	104	77 - 128	3381
1,1,2,2-Tetrachloroethane	mg/kg	0.0500	0.0487	97	69 - 134	3381
Tetrachloroethene	mg/kg	0.0500	0.0511	102	73 - 127	3381
Toluene	mg/kg	0.0500	0.0461	92	79 - 126	3381
1,2,3-Trichlorobenzene	mg/kg	0.0500	0.0285	57	52 - 140	3381
1,2,4-Trichlorobenzene	mg/kg	0.0500	0.0267	53	39 - 144	3381
1,1,1-Trichloroethane	mg/kg	0.0500	0.0447	89	78 - 129	3381
1,1,2-Trichloroethane	mg/kg	0.0500	0.0473	95	76 - 131	3381
Trichloroethene	mg/kg	0.0500	0.0502	100	79 - 127	3381
1,2,3-Trichloropropane	mg/kg	0.0500	0.0526	105	64 - 142	3381
1,2,4-Trimethylbenzene	mg/kg	0.0500	0.0413	83	69 - 126	3381
1,3,5-Trimethylbenzene	mg/kg	0.0500	0.0449	90	31 - 148	3381

Project QC continued . . .

TestAmerica
INCORPORATED

PROJECT QUALITY CONTROL DATA
Project Number: 2961B
Page: 8

Laboratory Control Data

Analyte	units	Known Val.	Analyzed Val	% Recovery	Target Range	Q.C. Batch
Vinyl chloride	mg/kg	0.0500	0.0436	87	70 - 140	3381
Xylenes, Total	mg/kg	0.1500	0.1475	98	77 - 123	3381
Bromodichloromethane	mg/kg	0.0500	0.0455	91	78 - 126	3381
Trichlorofluoromethane	mg/kg	0.0500	0.0457	91	72 - 131	3381

Laboratory Control Data

Analyte	units	Known Val.	Analyzed Val	% Recovery	Target Range	Q.C. Batch
EXTRACTABLE PARAMETERS						
Acenaphthene	mg/kg	1.67	1.25	75	47 - 122	2420
Acenaphthylene	mg/kg	1.67	1.42	85	48 - 122	2420
Anthracene	mg/kg	1.67	1.42	85	49 - 127	2420
Benzo(a)anthracene	mg/kg	1.67	1.32	79	49 - 125	2420
Benzo(a)pyrene	mg/kg	1.67	1.35	81	51 - 129	2420
Benzo(b)fluoranthene	mg/kg	1.67	1.22	73	47 - 127	2420
Benzo(g,h,i)perylene	mg/kg	1.67	1.25	75	17 - 146	2420
Benzo(k)fluoranthene	mg/kg	1.67	1.35	81	46 - 143	2420
4-Bromophenylphenylether	mg/kg	1.67	1.42	85	42 - 126	2420
Butylbenzylphthalate	mg/kg	1.67	1.35	81	49 - 136	2420
Carbazole	mg/kg	1.67	1.42	85	50 - 130	2420
4-Chloro-3-methylphenol	mg/kg	1.67	1.25	75	45 - 135	2420
4-Chloroaniline	mg/kg	1.67	1.48	89	46 - 134	2420
bis(2-Chloroethoxy)methane	mg/kg	1.67	1.25	75	44 - 122	2420
bis(2-Chloroethyl)ether	mg/kg	1.67	1.12	67	38 - 125	2420
bis(2-Chloroisopropyl)ether	mg/kg	1.67	1.29	77	39 - 122	2420
2-Chloronaphthalene	mg/kg	1.67	1.39	83	42 - 119	2420
2-Chlorophenol	mg/kg	1.67	1.32	79	43 - 120	2420
4-Chlorophenylphenylether	mg/kg	1.67	1.39	83	46 - 125	2420
Chrysene	mg/kg	1.67	1.32	79	48 - 131	2420
Dibenzofuran	mg/kg	1.67	1.42	85	45 - 121	2420
Dibenz(a,h)anthracene	mg/kg	1.67	1.12	67	19 - 138	2420

Project QC continued . . .

TestAmerica
INCORPORATED

PROJECT QUALITY CONTROL DATA
Project Number: 2961B
Page: 9

Laboratory Control Data

Analyte	units	Known Val.	Analyzed Val	% Recovery	Target Range	Q.C. Batch
1,2-Dichlorobenzene	mg/kg	1.67	1.42	85	39 - 117	2420
1,3-Dichlorobenzene	mg/kg	1.67	1.29	77	39 - 113	2420
1,4-Dichlorobenzene	mg/kg	1.67	1.35	81	40 - 117	2420
3,3'-Dichlorobenzidine	mg/kg	1.67	1.39	83	22 - 174	2420
2,4-Dichlorophenol	mg/kg	1.67	1.35	81	41 - 128	2420
Diethylphthalate	mg/kg	1.67	1.35	81	52 - 123	2420
2,4-Dimethylphenol	mg/kg	1.67	1.29	77	39 - 126	2420
Dimethylphthalate	mg/kg	1.67	1.42	85	50 - 124	2420
Di-n-butylphthalate	mg/kg	1.67	1.45	87	55 - 127	2420
4,6-Dinitro-2-methylphenol	mg/kg	1.67	1.65	99	20 - 149	2420
2,4-Dinitrophenol	mg/kg	1.67	1.52	91	0 - 153	2420
2,4-dinitrotoluene	mg/kg	1.67	1.42	85	32 - 140	2420
2,6-Dinitrotoluene	mg/kg	1.67	1.52	91	33 - 140	2420
Di-n-octylphthalate	mg/kg	1.67	1.25	75	45 - 158	2420
Fluoranthene	mg/kg	1.67	1.48	89	54 - 127	2420
Fluorene	mg/kg	1.67	1.39	83	48 - 126	2420
Hexachlorobenzene	mg/kg	1.67	1.58	95	45 - 127	2420
Hexachlorobutadiene	mg/kg	1.67	1.45	87	37 - 127	2420
Hexachlorocyclopentadiene	mg/kg	1.67	1.39	83	15 - 117	2420
Hexachloroethane	mg/kg	1.67	1.25	75	27 - 130	2420
Indeno(1,2,3-cd)pyrene	mg/kg	1.67	1.32	79	20 - 138	2420
Isophorone	mg/kg	1.67	1.32	79	44 - 123	2420
2-Methylnaphthalene	mg/kg	1.67	1.22	73	43 - 118	2420
2-Methylphenol	mg/kg	1.67	1.32	79	39 - 127	2420
m,p-Methylphenol	mg/kg	1.67	1.16	69	41 - 127	2420
Naphthalene	mg/kg	1.67	1.16	69	41 - 121	2420
2-Nitroaniline	mg/kg	1.67	1.45	87	37 - 138	2420
3-Nitroaniline	mg/kg	1.67	1.35	81	40 - 151	2420
4-Nitroaniline	mg/kg	1.67	1.55	93	27 - 153	2420
Nitrobenzene	mg/kg	1.67	1.19	71	32 - 128	2420
2-Nitrophenol	mg/kg	1.67	1.35	81	41 - 128	2420
4-Nitrophenol	mg/kg	1.67	1.58	95	33 - 140	2420
N-nitrosodi-n-propylamine	mg/kg	1.67	1.22	73	44 - 126	2420

Project QC continued . . .

TestAmerica
INCORPORATED

PROJECT QUALITY CONTROL DATA
Project Number: 2961B
Page: 10

Laboratory Control Data

Analyte	units	Known Val.	Analyzed Val	% Recovery	Target Range	Q.C. Batch
N-nitrosodiphenylamine	mg/kg	1.67	1.45	87	48 - 127	2420
Pentachlorophenol	mg/kg	1.67	1.68	101	23 - 139	2420
Phenanthrene	mg/kg	1.67	1.35	81	47 - 127	2420
Phenol	mg/kg	1.67	1.25	75	41 - 123	2420
Pyrene	mg/kg	1.67	1.35	81	46 - 129	2420
Bis(2-ethylhexyl)phthalate	mg/kg	1.67	1.32	79	46 - 143	2420
1,2,4-Trichlorobenzene	mg/kg	1.67	1.32	79	33 - 125	2420
2,4,5-Trichlorophenol	mg/kg	1.67	1.52	91	45 - 128	2420
2,4,6-Trichlorophenol	mg/kg	1.67	1.32	79	46 - 129	2420

Laboratory Control Data

Analyte	units	Known Val.	Analyzed Val	% Recovery	Target Range	Q.C. Batch
PEST/PCB/HERB PARAMETERS						
Aroclor 1016	mg/kg	0.1667	0.2101	126	63 - 176	1594
Aroclor 1260	mg/kg	0.1667	0.1995	120	66 - 168	1594

Laboratory Control Data

Analyte	units	Known Val.	Analyzed Val	% Recovery	Target Range	Q.C. Batch
METALS						
Arsenic	mg/kg	20.000	19.200	96	75 - 125	804
Barium	mg/kg	400.000	408.000	102	75 - 125	804
Cadmium	mg/kg	20.000	19.000	95	75 - 125	804
Chromium	mg/kg	40.000	39.800	100	75 - 125	804
Lead	mg/kg	100.000	93.200	93	75 - 125	804
Mercury	mg/kg	0.170	0.160	94	80 - 120	2265
Selenium	mg/kg	20.000	18.400	92	80 - 120	804
Silver	mg/kg	10.000	8.400	84	75 - 125	804

Project QC continued . . .

TestAmerica
INCORPORATED

PROJECT QUALITY CONTROL DATA
Project Number: 2961B
Page: 11

Continuing Calibration Verification

Analyte	units	Known Val.	Analyzed Val	% Recovery	Target Range	Q.C. Batch
METALS						

Blank Data

Analyte	Blank Value	Units	Q.C. Batch	Date Analyzed	Time Analyzed
VOA PARAMETERS					
Acetone	< 0.0500	mg/kg	3381	11/21/01	9:34
Benzene	< 0.0020	mg/kg	3381	11/21/01	9:34
Bromobenzene	< 0.0020	mg/kg	3381	11/21/01	9:34
Bromochloromethane	< 0.0020	mg/kg	3381	11/21/01	9:34
Bromoform	< 0.0020	mg/kg	3381	11/21/01	9:34
Bromomethane	< 0.0020	mg/kg	3381	11/21/01	9:34
2-Butanone	< 0.0500	mg/kg	3381	11/21/01	9:34
n-Butylbenzene	< 0.0020	mg/kg	3381	11/21/01	9:34
sec-Butylbenzene	< 0.0020	mg/kg	3381	11/21/01	9:34
t-Butylbenzene	< 0.0020	mg/kg	3381	11/21/01	9:34
Carbon disulfide	< 0.0020	mg/kg	3381	11/21/01	9:34
Carbon tetrachloride	< 0.0020	mg/kg	3381	11/21/01	9:34
Chlorobenzene	< 0.0020	mg/kg	3381	11/21/01	9:34
Chloroethane	< 0.0020	mg/kg	3381	11/21/01	9:34
Chloroform	< 0.0020	mg/kg	3381	11/21/01	9:34
Chloromethane	< 0.0020	mg/kg	3381	11/21/01	9:34
2-Chlorotoluene	< 0.0020	mg/kg	3381	11/21/01	9:34
4-Chlorotoluene	< 0.0020	mg/kg	3381	11/21/01	9:34
1,2-Dibromo-3-chloropropane	< 0.0100	mg/kg	3381	11/21/01	9:34
Dibromochloromethane	< 0.0020	mg/kg	3381	11/21/01	9:34
1,2-Dibromoethane	< 0.0020	mg/kg	3381	11/21/01	9:34
Dibromomethane	< 0.0020	mg/kg	3381	11/21/01	9:34
1,2-Dichlorobenzene	< 0.0020	mg/kg	3381	11/21/01	9:34
1,3-Dichlorobenzene	< 0.0020	mg/kg	3381	11/21/01	9:34

Project QC continued . . .

TestAmerica
INCORPORATED

PROJECT QUALITY CONTROL DATA
Project Number: 2961B
Page: 12

Blank Data

Analyte	Blank Value	Units	Q.C. Batch	Analysis Date	Analysis Time
1,4-Dichlorobenzene	< 0.0020	mg/kg	3381	11/21/01	9:34
Dichlorodifluoromethane	< 0.0020	mg/kg	3381	11/21/01	9:34
1,1-Dichloroethane	< 0.0020	mg/kg	3381	11/21/01	9:34
1,2-Dichloroethane	< 0.0020	mg/kg	3381	11/21/01	9:34
1,1-Dichloroethene	< 0.0020	mg/kg	3381	11/21/01	9:34
cis-1,2-Dichloroethene	< 0.0020	mg/kg	3381	11/21/01	9:34
trans-1,2-Dichloroethene	< 0.0020	mg/kg	3381	11/21/01	9:34
1,2-Dichloropropane	< 0.0020	mg/kg	3381	11/21/01	9:34
1,3-Dichloropropane	< 0.0020	mg/kg	3381	11/21/01	9:34
2,2-Dichloropropane	< 0.0020	mg/kg	3381	11/21/01	9:34
1,1-Dichloropropene	< 0.0020	mg/kg	3381	11/21/01	9:34
cis-1,3-Dichloropropene	< 0.0020	mg/kg	3381	11/21/01	9:34
trans-1,3-Dichloropropene	< 0.0020	mg/kg	3381	11/21/01	9:34
Ethylbenzene	< 0.0020	mg/kg	3381	11/21/01	9:34
Hexachlorobutadiene	< 0.0020	mg/kg	3381	11/21/01	9:34
2-Hexanone	< 0.0100	mg/kg	3381	11/21/01	9:34
Isopropylbenzene	< 0.0020	mg/kg	3381	11/21/01	9:34
4-Isopropyltoluene	< 0.0020	mg/kg	3381	11/21/01	9:34
4-Methyl-2-pentanone	< 0.0100	mg/kg	3381	11/21/01	9:34
Methylene chloride	< 0.0020	mg/kg	3381	11/21/01	9:34
Naphthalene	< 0.0050	mg/kg	3381	11/21/01	9:34
n-Propylbenzene	< 0.0020	mg/kg	3381	11/21/01	9:34
Styrene	< 0.0020	mg/kg	3381	11/21/01	9:34
1,1,1,2-Tetrachloroethane	< 0.0020	mg/kg	3381	11/21/01	9:34
1,1,2,2-Tetrachloroethane	< 0.0020	mg/kg	3381	11/21/01	9:34
Tetrachloroethene	< 0.0020	mg/kg	3381	11/21/01	9:34
Toluene	< 0.0020	mg/kg	3381	11/21/01	9:34
1,2,3-Trichlorobenzene	< 0.0020	mg/kg	3381	11/21/01	9:34
1,2,4-Trichlorobenzene	< 0.0020	mg/kg	3381	11/21/01	9:34
1,1,1-Trichloroethane	< 0.0020	mg/kg	3381	11/21/01	9:34
1,1,2-Trichloroethane	< 0.0020	mg/kg	3381	11/21/01	9:34
Trichloroethene	< 0.0020	mg/kg	3381	11/21/01	9:34
1,2,3-Trichloropropane	< 0.0020	mg/kg	3381	11/21/01	9:34

Project QC continued . . .

TestAmerica
INCORPORATED

PROJECT QUALITY CONTROL DATA
Project Number: 2961B
Page: 13

Blank Data

Analyte	Blank Value	Units	Q.C. Batch	Analysis Date	Analysis Time
1,2,4-Trimethylbenzene	< 0.0020	mg/kg	3381	11/21/01	9:34
1,3,5-Trimethylbenzene	< 0.0020	mg/kg	3381	11/21/01	9:34
Vinyl chloride	< 0.0020	mg/kg	3381	11/21/01	9:34
Xylenes, Total	< 0.0020	mg/kg	3381	11/21/01	9:34
Bromodichloromethane	< 0.0020	mg/kg	3381	11/21/01	9:34
Trichlorofluoromethane	< 0.0020	mg/kg	3381	11/21/01	9:34
VOA Surr 1,2-DCA-d4	98.	% Rec	3381	11/21/01	9:34
VOA Surr Toluene-d8	93.	% Rec	3381	11/21/01	9:34
VOA Surr, 4-BFB	104.	% Rec	3381	11/21/01	9:34
VOA Surr, DBFM	105.	% Rec	3381	11/21/01	9:34

Blank Data

Analyte	Blank Value	Units	Q.C. Batch	Date Analyzed	Time Analyzed
EXTRACTABLE PARAMETERS					
Acenaphthene	< 0.330	mg/kg	2420	11/17/01	13:27
Acenaphthylene	< 0.330	mg/kg	2420	11/17/01	13:27
Anthracene	< 0.330	mg/kg	2420	11/17/01	13:27
Benzo(a)anthracene	< 0.330	mg/kg	2420	11/17/01	13:27
Benzo(a)pyrene	< 0.330	mg/kg	2420	11/17/01	13:27
Benzo(b)fluoranthene	< 0.330	mg/kg	2420	11/17/01	13:27
Benzo(g,h,i)perylene	< 0.330	mg/kg	2420	11/17/01	13:27
Benzo(k)fluoranthene	< 0.330	mg/kg	2420	11/17/01	13:27
4-Bromophenylphenylether	< 0.330	mg/kg	2420	11/17/01	13:27
Butylbenzylphthalate	< 0.330	mg/kg	2420	11/17/01	13:27
Carbazole	< 0.330	mg/kg	2420	11/17/01	13:27
4-Chloro-3-methylphenol	< 0.330	mg/kg	2420	11/17/01	13:27
4-Chloroaniline	< 0.330	mg/kg	2420	11/17/01	13:27
bis(2-Chloroethoxy)methane	< 0.330	mg/kg	2420	11/17/01	13:27
bis(2-Chloroethyl)ether	< 0.330	mg/kg	2420	11/17/01	13:27
bis(2-Chloroisopropyl)ether	< 0.330	mg/kg	2420	11/17/01	13:27

Project QC continued . . .

TestAmerica
INCORPORATED

PROJECT QUALITY CONTROL DATA
Project Number: 2961B
Page: 14

Blank Data

Analyte	Blank Value	Units	Q.C. Batch	Analysis Date	Analysis Time
2-Chloronaphthalene	< 0.330	mg/kg	2420	11/17/01	13:27
2-Chlorophenol	< 0.330	mg/kg	2420	11/17/01	13:27
4-Chlorophenylphenylether	< 0.330	mg/kg	2420	11/17/01	13:27
Chrysene	< 0.330	mg/kg	2420	11/17/01	13:27
Dibenzofuran	< 0.330	mg/kg	2420	11/17/01	13:27
Dibenz(a,h)anthracene	< 0.330	mg/kg	2420	11/17/01	13:27
1,2-Dichlorobenzene	< 0.330	mg/kg	2420	11/17/01	13:27
1,3-Dichlorobenzene	< 0.330	mg/kg	2420	11/17/01	13:27
1,4-Dichlorobenzene	< 0.330	mg/kg	2420	11/17/01	13:27
3,3'-Dichlorobenzidine	< 0.330	mg/kg	2420	11/17/01	13:27
2,4-Dichlorophenol	< 0.330	mg/kg	2420	11/17/01	13:27
Diethylphthalate	< 0.330	mg/kg	2420	11/17/01	13:27
2,4-Dimethylphenol	< 0.330	mg/kg	2420	11/17/01	13:27
Dimethylphthalate	< 0.330	mg/kg	2420	11/17/01	13:27
Di-n-butylphthalate	< 0.330	mg/kg	2420	11/17/01	13:27
4,6-Dinitro-2-methylphenol	< 0.330	mg/kg	2420	11/17/01	13:27
2,4-Dinitrophenol	< 0.330	mg/kg	2420	11/17/01	13:27
2,4-dinitrotoluene	< 0.330	mg/kg	2420	11/17/01	13:27
2,6-Dinitrotoluene	< 0.330	mg/kg	2420	11/17/01	13:27
Di-n-octylphthalate	< 0.330	mg/kg	2420	11/17/01	13:27
Fluoranthene	< 0.330	mg/kg	2420	11/17/01	13:27
Fluorene	< 0.330	mg/kg	2420	11/17/01	13:27
Hexachlorobenzene	< 0.330	mg/kg	2420	11/17/01	13:27
Hexachlorobutadiene	< 0.330	mg/kg	2420	11/17/01	13:27
Hexachlorocyclopentadiene	< 0.330	mg/kg	2420	11/17/01	13:27
Hexachloroethane	< 0.330	mg/kg	2420	11/17/01	13:27
Indeno(1,2,3-cd)pyrene	< 0.330	mg/kg	2420	11/17/01	13:27
Isophorone	< 0.330	mg/kg	2420	11/17/01	13:27
2-Methylnaphthalene	< 0.330	mg/kg	2420	11/17/01	13:27
2-Methylphenol	< 0.330	mg/kg	2420	11/17/01	13:27
m,p-Methylphenol	< 0.330	mg/kg	2420	11/17/01	13:27
Naphthalene	< 0.330	mg/kg	2420	11/17/01	13:27
2-Nitroaniline	< 0.330	mg/kg	2420	11/17/01	13:27

Project QC continued . . .

TestAmerica
INCORPORATED

PROJECT QUALITY CONTROL DATA
Project Number: 2961B
Page: 15

Blank Data

Analyte	Blank Value	Units	Q.C. Batch	Analysis Date	Analysis Time
3-Nitroaniline	< 0.330	mg/kg	2420	11/17/01	13:27
4-Nitroaniline	< 0.330	mg/kg	2420	11/17/01	13:27
Nitrobenzene	< 0.330	mg/kg	2420	11/17/01	13:27
2-Nitrophenol	< 0.330	mg/kg	2420	11/17/01	13:27
4-Nitrophenol	< 0.330	mg/kg	2420	11/17/01	13:27
N-nitrosodi-n-propylamine	< 0.330	mg/kg	2420	11/17/01	13:27
N-nitrosodiphenylamine	< 0.330	mg/kg	2420	11/17/01	13:27
Pentachlorophenol	< 0.330	mg/kg	2420	11/17/01	13:27
Phenanthrene	< 0.330	mg/kg	2420	11/17/01	13:27
Phenol	< 0.330	mg/kg	2420	11/17/01	13:27
Pyrene	< 0.330	mg/kg	2420	11/17/01	13:27
Bis(2-ethylhexyl)phthalate	< 0.330	mg/kg	2420	11/17/01	13:27
1,2,4-Trichlorobenzene	< 0.330	mg/kg	2420	11/17/01	13:27
2,4,5-Trichlorophenol	< 0.330	mg/kg	2420	11/17/01	13:27
2,4,6-Trichlorophenol	< 0.330	mg/kg	2420	11/17/01	13:27

Blank Data

Analyte	Blank Value	Units	Q.C. Batch	Date Analyzed	Time Analyzed
PEST/PCB/HERB PARAMETERS					
Aroclor 1016	< 0.0200	mg/kg	1594	11/17/01	18:16
Aroclor 1221	< 0.0200	mg/kg	1594	11/17/01	18:16
Aroclor 1232	< 0.0200	mg/kg	1594	11/17/01	18:16
Aroclor 1242	< 0.0200	mg/kg	1594	11/17/01	18:16
Aroclor 1248	< 0.0200	mg/kg	1594	11/17/01	18:16
Aroclor 1254	< 0.0200	mg/kg	1594	11/17/01	18:16
Aroclor 1260	< 0.0200	mg/kg	1594	11/17/01	18:16

Project QC continued . . .

TestAmerica
INCORPORATED

PROJECT QUALITY CONTROL DATA
Project Number: 2961B
Page: 16

pcb surr-TCMX	122.	% Rec	1594	11/17/01	18:16
8082 Surr DCB,s	108.	% Rec	1594	11/17/01	18:16

Blank Data

Analyte	Blank Value	Units	Q.C. Batch	Date Analyzed	Time Analyzed
METALS					
Arsenic	< 1.000	mg/kg	804	11/18/01	17:03
Barium	< 1.000	mg/kg	804	11/18/01	17:03
Cadmium	< 1.000	mg/kg	804	11/18/01	17:03
Chromium	< 1.000	mg/kg	804	11/18/01	17:03
Lead	< 1.000	mg/kg	804	11/18/01	17:03
Mercury	< 0.100	mg/kg	2265	11/20/01	10:52
Selenium	< 1.000	mg/kg	804	11/18/01	17:03
Silver	< 1.000	mg/kg	804	11/18/01	17:03

= Value outside Laboratory historical or method prescribed QC limits.

'-d of Report for Project 260413

TestAmerica
INCORPORATED

12/ 4/01

KERAMIDA ENVIRONMENTAL
KRISTEN BELLCREDI
INDIANAPOLIS, IN 46202

This report includes the analytical certificates of analysis for all samples listed below. These samples relate to your project 2961B WABASH NATIONAL.
An executed copy of the chain of custody and the sample receipt form are also included as an addendum to this report.

Sample Identification	Lab Number	Collection Date
KB-9 2.5-3.0'	01-A163514	11/12/01
KB-9 7.5-8.0'	01-A163515	11/12/01
KB-10 1.5-2.0'	01-A163516	11/12/01
KB-11 2.5-3.0'	01-A163517	11/12/01
KB-11 8.0-8.5'	01-A163518	11/12/01
KB-12-2.5-3.0'	01-A163519	11/12/01
KB-12 8.0-8.5'	01-A163520	11/12/01
KB-13 2.5-3.0'	01-A163521	11/13/01
KB-13 10.0-10.5'	01-A163522	11/13/01
KB-14 2.5-3.0'	01-A163523	11/13/01
KB-14 4.0-4.5'	01-A163524	11/13/01
KB-14 10.0-10.5'	01-A163525	11/13/01
KB-15 2.5-3.0'	01-A163526	11/13/01
KB-15 10.0-10.5'	01-A163527	11/13/01
KB-16 2.5-3.0'	01-A163528	11/13/01
KB-16 10.0-10.5'	01-A163529	11/13/01
KB-17 2.5-3.0'	01-A163530	11/13/01
KB-17 10.0-10.5'	01-A163531	11/13/01

2960 Foster Creighton Drive / Nashville,TN 37204 / 615-726-0177 / Fax: 615-726-0954 / 800-765-0980

TestAmerica
INCORPORATED

Sample Identification	Lab Number	Collection Date

These results relate only to the items tested.
This report shall not be reproduced except in full and with permission of the laboratory. This is a re-issued report.

Report Approved By: Michael H. Dunn

Report Date: 12/ 4/01
Revised Report Date

Paul E. Lane, Jr., Lab Director
Michael H. Dunn, M.S., Technical Director
Johnny A. Mitchell, Dir. Technical Serv.
Eric S. Smith, Assistant Technical Director
Gail A. Lage, Technical Serv.
Glenn L. Norton, Technical Serv.
Kelly S. Comstock, Technical Serv.
Pamela A. Langford, Technical Serv.

Laboratory Certification Number: AZ0473

2960 Foster Creighton Drive / Nashville,TN 37204 / 615-726-0177 / Fax: 615-726-0954 / 800-765-0980

TestAmerica
INCORPORATED

A copy of this report (signed) must be maintained in the project folder

2960 Foster Creighton Drive / Nashville,TN 37204 / 615-726-0177 / Fax: 615-726-0954 / 800-765-0980

PHOENIX - Corrective Action
Completion Report 3/12/02

KERAMIDA
ENVIRONMENTAL, INC.
ENGINEERING • CONSULTING • REMEDIATION
AIR • LAND • WATER • WASTE

330 North College Avenue
Indianapolis, Indiana 46202
(317) 685-6600 • Fax (317) 685-6610
1-800-508-8034
email: keramida@keramida.com
web page: www.keramida.com

CORRECTIVE ACTION COMPLETION REPORT
FORMER FRUEHAUF TRAILER FACILITY
902 SOUTH 7TH STREET
PHOENIX, ARIZONA
KERAMIDA PROJECT NO. 2961C

Submitted To: **WABASH NATIONAL, LLC**
Mr. Rick Bossingham
Environmental Manager
1000 Sagamore Parkway South
Lafayette, Indiana 47903

Submitted By: **KERAMIDA ENVIRONMENTAL, INC.**
330 North College Avenue
Indianapolis, Indiana 46202
317/685-6600

Gregory L. Heuer
Gregory L. Heuer
Staff Chemist

Reviewed By: Andrew Gremos / gh
Andrew Gremos, L.P.G., C.H.M.M.
Vice President of Investigation and Remediation Services

March 12, 2002

CORRECTIVE ACTION COMPLETION REPORT
FORMER FRUEHAUF TRAILER FACILITY
902 SOUTH 7TH STREET
PHOENIX, ARIZONA
KERAMIDA PROJECT NO. 2961C

Submitted To:

WABASH NATIONAL, LLC
Mr. Rick Bossingham
Environmental Manager
1000 Sagamore Parkway South
Lafayette, Indiana 47903

Submitted by:

KERAMIDA ENVIRONMENTAL, INC.
330 North College Avenue
Indianapolis, Indiana 46202
317/685-6600

March 12, 2002

EXECUTIVE SUMMARY

KERAMIDA Environmental, Inc. (KERAMIDA) has performed soil remediation activities for Wabash National, LLC at the Former Fruehauf Trailer Facility located at 902 South 7th Street in Phoenix, Maricopa County, Arizona (Site). The remedial activities addressed the source area of lead occurrence in surface soil that was identified and defined by previous investigations conducted by KERAMIDA at the Site. The source area was near a former hole in the floor along the eastern wall of the existing paint spray booth. Although the Site has not entered into any Arizona Department of Environmental Quality (ADEQ) remediation program, soil analytical results were compared to the ADEQ Residential and Non-residential Soil Remediation Levels for lead (400 and 2,000 milligrams per kilogram (mg/kg), respectively).

During the period of February 25 – March 1, 2002, a total of 65.64 tons of lead impacted material was removed from the source area of contamination at the Site. The material was disposed at Allied Waste's Southwest Regional Landfill located in Buckeye, Arizona. KERAMIDA collected confirmatory soil samples from the excavation sidewalls and floor. All laboratory analytical results for the confirmatory soil samples exhibited levels of total lead in the soil well below the ADEQ Residential Soil Remediation Level of 400 mg/kg. Based on these results, KERAMIDA concludes that all lead-impacted material in the identified source area has been removed. No further action is needed and remediation of lead contamination in the soil at the Site is complete.

TABLE OF CONTENTS

1.0 INTRODUCTION 1
2.0 BACKGROUND 1
3.0 SITE REMEDIATION 5
3.1 Field Activities 6
3.1.1 Waste Characterization 8
3.1.2 Confirmation Sampling and Laboratory Analytical Results 8
4.0 CONCLUSIONS AND RECOMMENDATIONS 9
5.0 USE OF REPORT 9
6.0 LIMITATIONS 9

ATTACHMENTS

1 Figure 1: Vicinity Map
Figure 2: Site Map
Figure 3: Detailed Work Area Map
Figure 4: Excavation and Confirmation Soil Sampling Location Map

2 Table A: Roll-Off Soil Samples Analytical Results
Table B: Confirmation Soil Samples Analytical Results

3 Starling & Associates, Inc. Shoring Calculations and CAD Drawings

4 Wabash National, LLC Waste Profile Sheet
Waste Manifests and Weight Tickets

5 AMEC Compaction Testing Report

6 Confirmation Sample Analytical Reports and Chain-of-Custody Documentation
Quality Assurance/Quality Control Documentation

7 Photographs

CORRECTIVE ACTION COMPLETION REPORT
FORMER FRUEHAUF TRAILER FACILITY
902 SOUTH 7TH STREET
PHOENIX, ARIZONA
KERAMIDA PROJECT NO. 2961C

1.0 INTRODUCTION

KERAMIDA Environmental, Inc. (KERAMIDA) was contracted by Mr. Rick Bossingham, Environmental Manager with Wabash National, LLC (Client) to remove lead contaminated soil from the Former Fruehauf Trailer Facility located at 902 South 7th Street in Phoenix, Maricopa County, Arizona (Site). The Site location and local topography are shown on Figure 1 in Attachment 1. A site overview map and a detailed work area map are provided as Figures 2 and 3 of Attachment 1, respectively. This closure report provides background information on the project, a summary of the confirmation soil sampling, and documents soil lead remediation activities.

2.0 BACKGROUND

Previous environmental issues addressed and investigations completed at the Site include the following:

- One 1,200-gallon waste oil underground storage tank (UST) along with an on-Site drywell were removed along with any existing contaminated soil related to the release. Release discovery and UST/drywell removal are reported to have occurred on October 29, 1992 based on ADEQ Site data.

- The 1,200-gallon waste oil UST was reported as having a release at the Site on December 16, 1992. The release related to the 1,200-gallon waste oil UST received closure from the ADEQ Underground Storage Tank (UST) Program UST Corrective Action Section Project Manager, Quinn Thacker on December 17, 1999.

- A Phase I Environmental Site Assessment was completed by KERAMIDA in August of 1999.

- A Phase II Environmental Site Investigation was completed by KERAMIDA in May of 2001.

- A Supplemental Site Investigation was completed by KERAMIDA in November of 2001.

The previous environmental issues and investigations resulted in the following findings regarding possible soil and groundwater contamination at the Site:

1. Upon discussions with the former Fruehauf/Wabash Service Manager, Mr. Bruce Kasmer, it was determined that dry well removal was conducted concurrent with the removal of the former UST in 1992. Contaminated soils that were found at the time were also removed to at least the depth of excavation of a trackhoe (approximately 20 feet). The excavation was then backfilled with clean, non-native materials (sand and gravel). Some of the contaminated soils that were removed were properly disposed of off-site at a landfill and some of the contaminated soil was treated on site using microbes for a period of several years. Mr. Kasmer did not know the details of the on-site treatment activities, but stated that he recalled that the microbe treatments did not achieve the cleanup goals desired, and the soils were then removed from the site and sent for incineration. He was not aware of any reports related to the on-site treatment. There was no evidence of a dry well at the Site at the time of the Phase II Investigation. A boring (KB-2) was installed within the former excavation area related to the dry well and waste oil UST. None of the compounds analyzed from the deep soil sample at KB-2, advanced during the Phase II, exceeded the ADEQ soil standards for non-residential sites.

2. A Leaking Underground Storage Tank (LUST) Case Closure letter was issued on December 17, 1999. This letter was issued based on the following facts stated by the ADEQ:

    a. The release had been adequately investigated and vertically and horizontally defined to 10 feet below ground surface (bgs).

    b. Depth to groundwater was approximately 60 feet bgs.

c. Based upon the laboratory analytical results of the investigation, the release was adequately defined and all soils related to the release had been removed. The results of soil testing after soil removal indicated that contaminant concentrations remaining in the subsurface soil meet the residential Health Based Guidance Level as specified in Arizona Administrative Code (A.A.C.) R18-7-201 et seq. for the identified contaminants.

d. The highest soil contaminant concentration that remained in the subsurface soil was 320 milligrams per kilogram (mg/kg) petroleum hydrocarbons at or about 10 feet bgs.

3. The following environmental concerns were identified during the Phase I Investigation completed by KERAMIDA in August of 1999:

   a. Possible soil and groundwater contamination due to operation as a trailer sales and service business at the Site, and

   b. Possible groundwater contamination due to off-Site source(s) in the area.

   Specific areas of concern included:

   a. a waste oil underground storage tank (UST) that had been removed from a location near the former truck wash;

   b. an existing oil/water separator near the northwest corner of the building,

   c. the former and existing truck wash areas and an associated dry well,

   d. a paint spray booth, and

   e. a paint waste storage shed.

Based on the findings of the Phase I Site Assessment, a Phase II Investigation was proposed to investigate the areas of environmental concern.

4. Based on the findings of the Phase II Investigation, the following environmental issues were noted:

   a. Soil samples collected from around the former waste oil UST, the existing oil/water separator, and the paint spray booth indicated the presence of arsenic and lead in concentrations that exceeded the ADEQ Soil Remediation Standards for Non-Residential Sites. Further investigation was recommended to determine the nature, magnitude and extent of these metals. These data would be used to develop an appropriate remediation strategy,

   b. The concentration of arsenic and chromium exceeded the ADEQ Aquifer Water Quality Standards in the four wells (MW-A through MW-D) sampled at the Site. The concentration of lead in the water samples collected from MW-B and C exceeded the ADEQ Aquifer Water Quality Standards,

   c. Chromium was present in the groundwater samples (MW-A through MW-D) in high concentrations. However, chromium concentrations in soil samples from the Site did not exceed soil remediation standards. This implied that chromium in the groundwater may be from an off-site source(s),

   d. KERAMIDA recommended that a detailed file search related to the "East Washington WQARF Project Area" be conducted. The goal of this file search would be to obtain public information related to the work that had been conducted by the ADEQ in assessing groundwater conditions within the area. It was thought that ADEQ information would have defined groundwater flow directions, contaminants and concentrations of concern, and potential or known source areas. The information would be evaluated by KERAMIDA to assess the potential that groundwater at the Site has been impacted by off-site sources rather than by the past activities on the Site, and

e. KERAMIDA also recommended that an elevation survey of the existing monitoring wells at the Site be conducted so that an accurate groundwater flow direction beneath the Site could be determined.

Based on the findings of the Phase II Investigation, a Supplemental Site Investigation was proposed to investigate the areas of environmental concern.

5. The following environmental issues were noted in the Supplemental Site Investigation:

   a. Groundwater samples collected from the wells on-Site and analyzed for arsenic, chromium and lead did not exceed the ADEQ Aquifer Water Quality Standards,

   b. Concentrations of arsenic and lead in soils at the Site exceeded the ADEQ Soil Remediation Standards,

   c. Arsenic levels in Site soils were found to be well within the common background range established for soils in the region where the Site is located, and

   d. Lead levels above the ADEQ Soil Remediation Standard, in and around a hole in the floor of the paint spray booth, are restricted to an area to an approximately 20' X 20' X 3'. This determination of area is based on the analytical results of samples collected from "step-off" borings around the hole.

The following site remediation activities detail the actions taken to remediate the 20' X 20' X 3' area of lead contaminated surface soil in and around the paint spray booth.

3.0 SITE REMEDIATION

Lead contamination in soil under the paint spray booth area was found during a Phase II Investigation conducted by KERAMIDA in May of 2001. The nature and extent of the lead-contaminated soil was investigated during a Supplemental Site Investigation conducted during November of 2001. The extent of soil removal was determined based on the analytical results of the samples taken from "step-off" borings advanced during Supplemental Site Investigation field

activities. Based on the soil analyses results, KERAMIDA determined that the lead contamination, above the ADEQ Soil Remediation Standard, was limited to an approximate 20' X 20' X 3' area.

Due to the nature of the excavation activities, structural shoring of the east wall of the paint spray booth was needed to remove the contaminated material. KERAMIDA contracted Starling & Associates, Inc., a structural engineering firm out of Tempe, Arizona, to develop calculations and CAD drawings detailing the construction of the shoring. Calculations and CAD drawings detailing the appropriate shoring technique are located in Attachment 3.

3.1 Field Activities

KERAMIDA provided field oversight of the remediation activities and performed confirmation-sampling activities during the period of February 25 through March 1 of 2002. Photographs depicting relevant field activities throughout the week are located in Attachment 7. Lead contaminated material (fill, asphalt, and native soils) in the area of the paint spray booth was excavated, loaded into plastic lined 20-ton roll-off bins and disposed of at Allied Waste's Southwest Regional Landfill located in Buckeye, Arizona. A total of 65.64 tons of lead impacted fill, asphalt and soil were removed from the source area of contamination at the Site.

Chemical Transportation, Inc. (CTI), the subcontracted environmental construction contractor, performed demolition, remediation and construction field activities. At least 48 hours prior to the initiation of the field activities, KERAMIDA requested Arizona Blue Stake to mark underground utilities at the Site. A site safety meeting, including a review of the site health and safety plan, was performed at the beginning of field activities on Monday, February 25, 2002.

CTI performed shoring of the east wall of the paint spray booth before demolition and excavation activities began. CTI followed Starling & Associates, Inc. structural shoring specifications when constructing the shoring and welding it to the existing east wall structure of the paint spray booth. Once shoring of the east wall was complete, demolition of the cut area of concrete began.

CTI subcontracted Concrete Coring Company to cut the approximate 20' X 20' X 3' area of concrete to be removed from above the lead-impacted material. A John Deere® 310E backhoe/endloader was fitted with a hydraulic hammer and utilized to break up the concrete.

The concrete was then placed into a roll-off bin for later disposal at a certified Construction and Demolition Debris (CDD) landfill.

CTI used a John Deere 310E backhoe/endloader to excavate the contaminated asphalt, fill, and native soil from the excavation. The excavated material was placed into 20-ton capacity roll-off bins and held on-Site until manifested as "non-hazardous lead contaminated soil". The roll-offs were then transported offsite by CTI for disposal of the soil at the Southwest Regional Landfill located in Buckeye, Arizona. The waste manifests along with weight tickets for the disposal of the excavated soil and waste material are located in Attachment 4.

Four (4) concrete encased piping lines originating from an unknown source and traversing the excavation area from north to south were removed. Each pipe was 1.5 inches in diameter. A four (4) inch diameter drain was found under a depression in the concrete along the west side of the paint booth's east wall. The 4-inch drain is thought to be the source area of the lead contamination due to discolored soil located in and around it as well as it's proximity to the Phase II boring where high lead levels were detected in surface soils. The discolored soil was limited in extent to the immediate area around the drain. The piping for the 4-inch drain ran through the excavation from northeast to southwest. It is assumed that this former drain and associated piping were part of the drainage system that runs beneath the existing building.

After the completion of excavation activities, confirmation sampling of the floors and sidewalls of the excavation for total lead was performed. The excavation was then backfilled with engineered grade backfill material. A joystick controlled Wacker® RT 820 "sheep's foot" roller/compactor was used to compact the backfill to a 95% compaction rating. The backfill was placed in the excavation in a total of three (3) separate lifts. Each lift was tested by AMEC, a subcontracted geophysical material testing and inspections company, for at least a 95% compaction rating. A copy of the compaction testing report is located in Attachment 5.

After compacted backfill was brought to eight inches below grade, a new eight-inch concrete slab was poured. Three thousand (3,000) pounds per square inch (psi) concrete was poured over 3/8" rebar that was doweled into the existing concrete. The concrete was shaped, formed and allowed to cure. After curing the concrete, the top and edges were formed and finished.

3.1.1 Waste Characterization

On March 1, 2002, KERAMIDA sent a generator's waste profile sheet for waste characterization and disposal profiling to Allied Waste's Special Waste Review Office in Lake Havasu City, Arizona. After excavated soils were loaded into the four (4) roll-off bins for disposal, waste characterization composite samples were obtained from each of the 4 roll-off bins. A composite sample was obtained by grabbing three (3) samples from different areas of a roll-off bin, mixing the three (3) samples together, and then obtaining a composite sample from the mixture of the three (3) grabs. Each composite sample was then placed into a sample container for shipment to the laboratory for analysis. Based on analytical results of these composite samples the waste stream was profiled as a "non-hazardous lead contaminated soil" for disposal at the Southwest Regional Landfill in Buckeye, Arizona (see Table A in Attachment 2). On March 7, 2002, the roll-offs were transported offsite for disposal of the soil at the Southwest Regional Landfill. The waste manifests along with weight tickets for the disposal of the excavated soil and waste material are located in Attachment 4.

3.1.2 Confirmation Sampling and Laboratory Analytical Results

Six (6) confirmation soil samples were collected for total lead analyses using SW-846 EPA Method 6010B. Two (2) confirmation soil samples (EF-1 and EF-2) were collected from the floor of the excavation. Four (4) confirmation soil samples (NEW-1, SEW-1, WEW-1 and EEW-1) were collected from the sidewalls at a depth of two-thirds the total depth of the excavation. All six (6) confirmation soil samples collected were reported as being below the ADEQ Residential Soil Remediation Levels (400 mg/kg) for total lead. Precision Analytical Laboratories, Inc. (Precision) of Tempe, Arizona analyzed all samples.

Total lead analytical results for the confirmation soil samples are presented in Table B of Attachment 2. The analytical laboratory report containing quality assurance/quality control documentation along with chain-of-custody documentation is located in Attachment 6. Sample locations are depicted on the scaled Excavation and Confirmation Soil Sample Location Map that is presented as Figure 4 in Attachment 1.

4.0 CONCLUSIONS AND RECOMMENDATIONS

The confirmation soil analytical laboratory results demonstrate that over-excavation was successful in removing the lead-impacted soil from the area of lead impact. The default closure goals for lead from the ADEQ Remediation Program were used for this incident. All confirmation soil sample results demonstrate that lead concentrations were below the ADEQ Residential Soil Remediation Level of 400 milligrams per kilogram (mg/kg). Since over-excavation successfully remediated the contamination, KERAMIDA concludes that no further action is needed and remediation of lead contamination in the soil in the identified source area is complete.

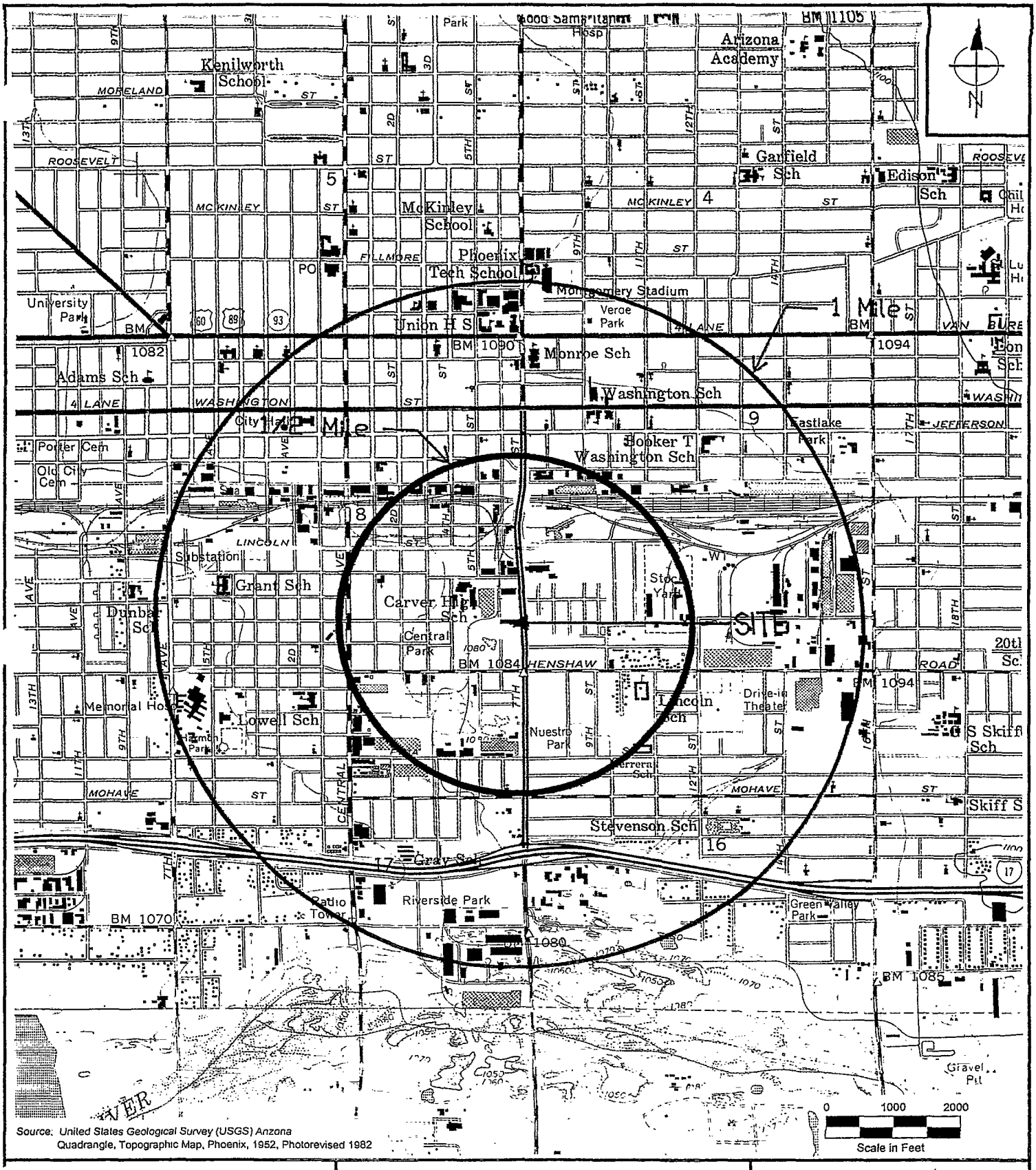
5.0 USE OF REPORT

This report has been prepared for the exclusive use of the Client and persons or organizations to which the Client wishes to make this report available. This report and the findings, conclusions and recommendations contained herein shall not, in whole or in part, be disseminated or conveyed to any other party, or used by or relied upon by any other party, without the prior written consent of KERAMIDA.

6.0 LIMITATIONS

This Corrective Action Completion Report was conducted in accordance with KERAMIDA contractual guidelines set for remediation. KERAMIDA's professional opinions contained herein are based upon the sampling conducted by KERAMIDA personnel during the remediation activities. No other warranty is given or implied by this report.

1

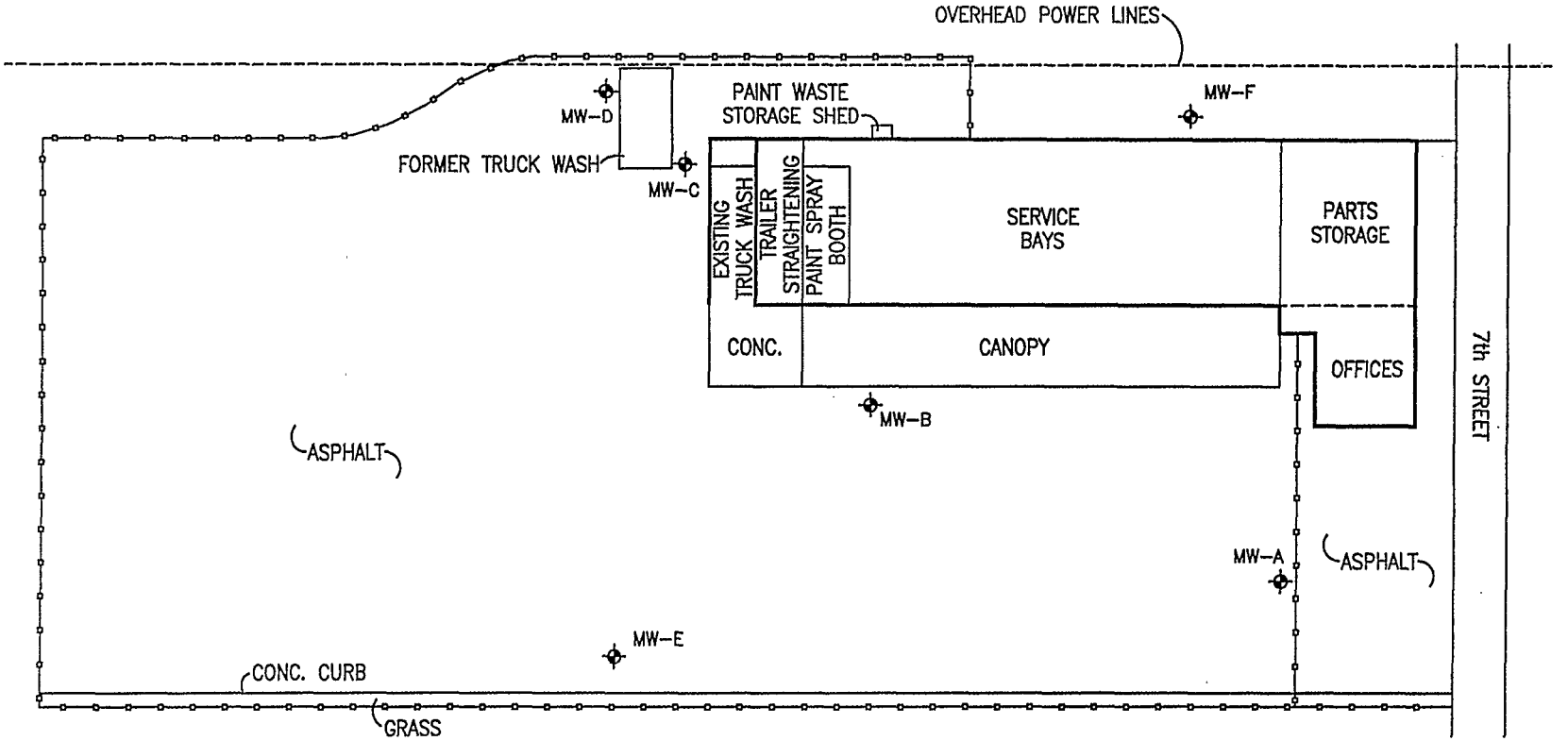


Source: United States Geological Survey (USGS) Arizona Quadrangle, Topographic Map, Phoenix, 1952, Photorevised 1982

KERAMIDA Environmental, Inc.

Figure 1
Vicinity Map
Fruehauf Trailer Facility
902 South 7th Street
Phoenix, Arizona

Prepared by :	BEH
Approved by :	CEH
Date :	06/08/01
Project Number :	2961A



LEGEND

Fence Line

Monitoring Well Location

MW-A Monitoring Well ID

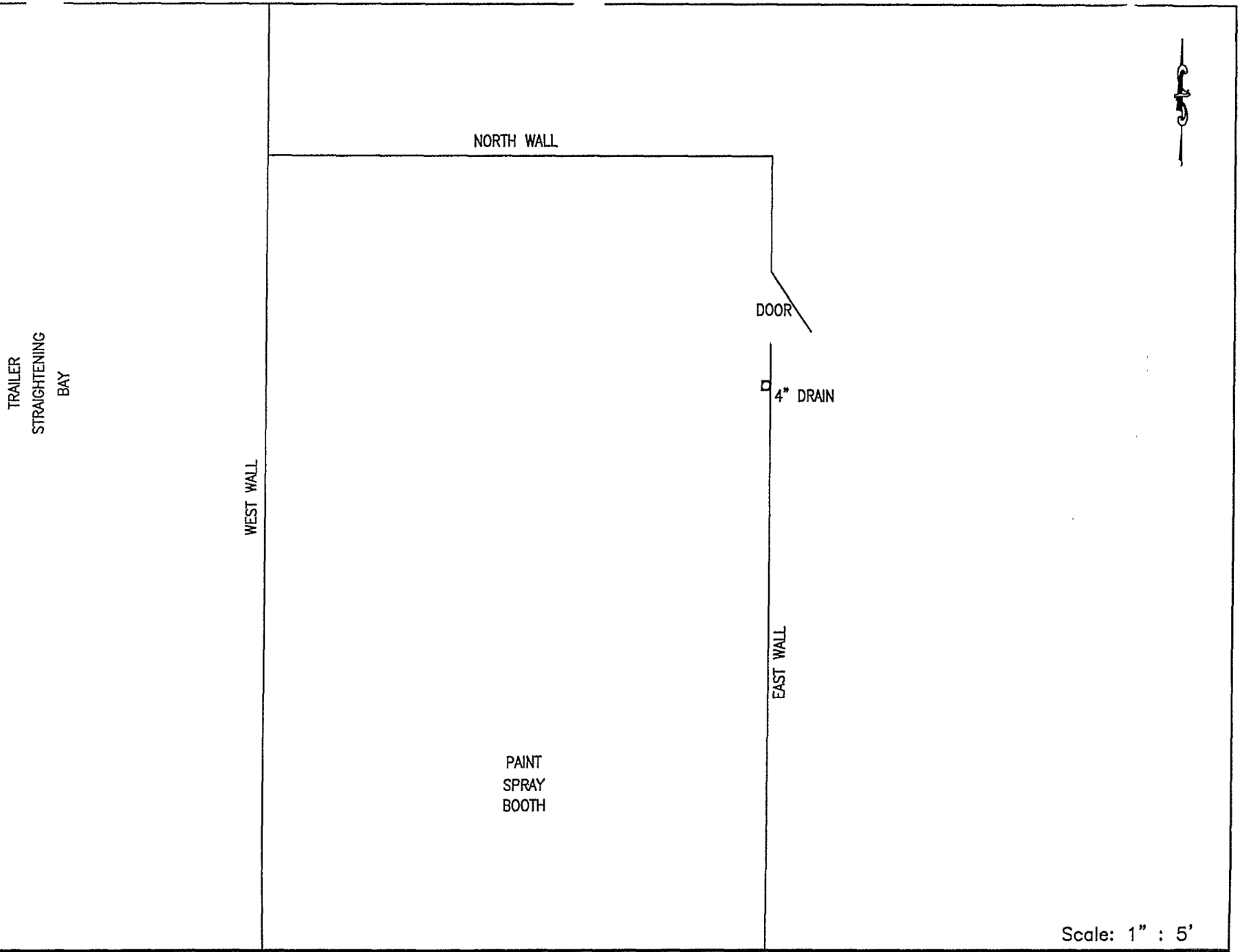
0' 40' 80'

Approximate Scale

KERAMIDA Environmental, Inc.

Figure 2
Site Map
Fruehauf Trailer Facility
902 South 7th Street
Phoenix, Arizona

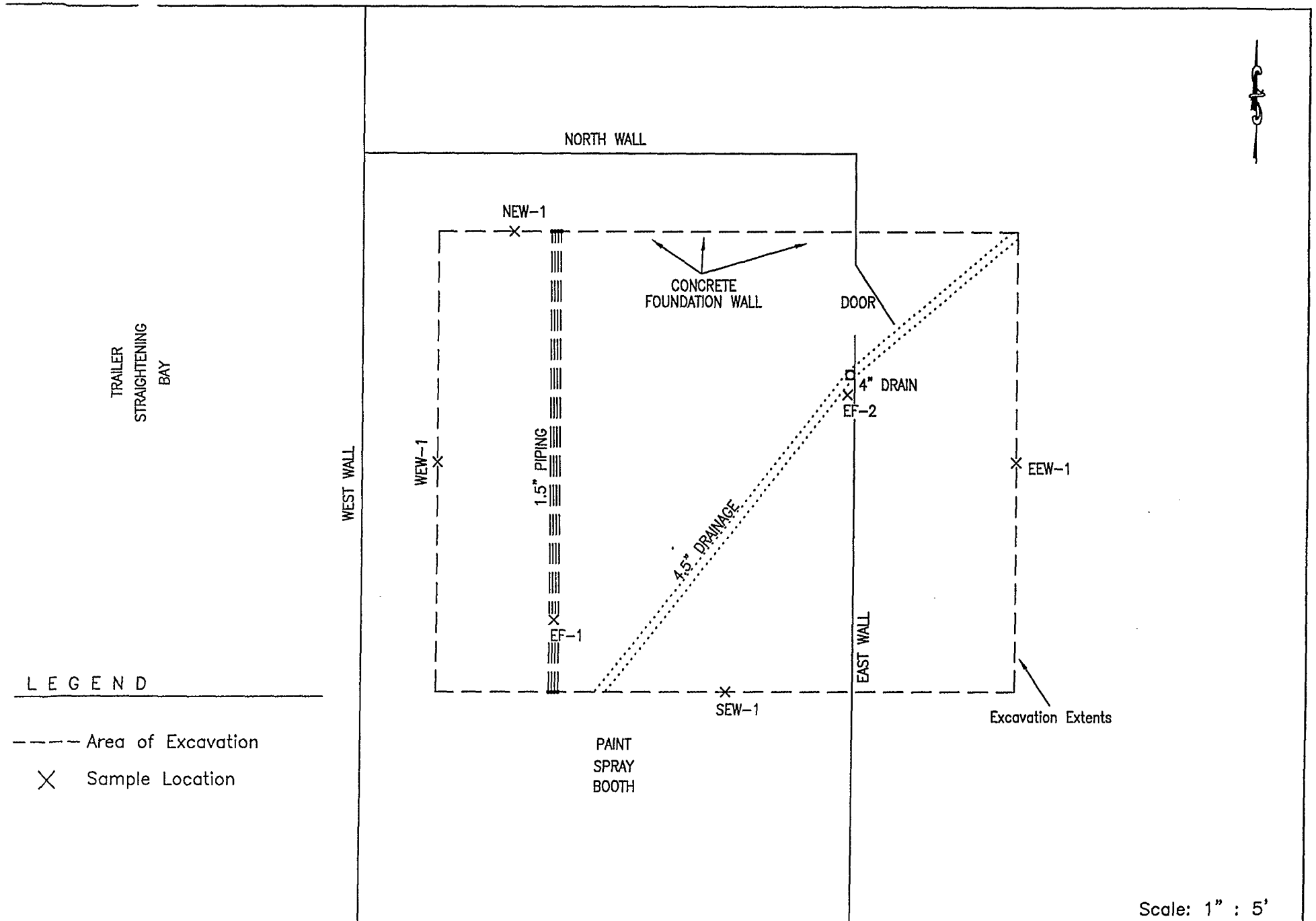
DRAWN BY:	MJ
APPROVED BY:	
FILE #:	2961B
DATE DRAWN:	03.07.02
DATE APPROVED:	



KERAMIDA ENVIRONMENTAL. INC.

Figure 3
Detailed Work Area Map
Freuhauf Trailer Facility
902 South 7th Street
Phoenix, AZ

Drawn By:	MHJ
APPROVED BY:	GH
FILE #:	
DATE APPROVED:	03.07.02



KERAMIDA ENVIRONMENTAL. INC.

Figure 4
Excavation and Confirmation Soil Sampling Location Map
Freuhauf Trailer Facility
902 South 7th Street
Phoenix, AZ

Drawn By:	MHJ
APPROVED BY:	GH
FILE #:	
DATE APPROVED:	03.07.02

2

Table A

Roll-Off Soil Samples Analytical Results (mg/kg)
Former Fruehauf Trailer Facility
Phoenix, Arizona
KERAMIDA Project No. 2961C

Sample No.	Date Sampled	Sample Location	Lab Sample No.	Total Lead
RO-1	2/27/2002	roll-off #1	02020922-01A	120
RO-2	2/27/2002	roll-off #2	02020922-02A	57
RO-3	2/27/2002	roll-off #3	02020922-03A	31
RO-4	2/27/2002	roll-off #4	02020922-10A	65
Arizona DEQ Residential Soil Remediation Levels[1]				400
Arizona DEQ Non-Residential Soil Remediation Levels[1]				2,000
Arizona DEQ Common Background Ranges-Phoenix/Tucson Areas [2]				ND-24.5

Samples analyzed using EPA Method Series 6000/7000

mg/kg = milligrams per kilogram

[1] Arizona Administrative Code
Department of Environmental Quality - Remedial Action
Title 18, Chapter 7, Article 2: Soil Remediation Standards, March 31, 2001

[2] Source Use: The Earth Technology Corporation, 1991.
Evaluation of Background Metals Concentrations in Arizona Soils, Table B-2.
Concentrations of Selected Metals Detected in ADEQ Samples, June 1991.
Prepared for Arizona Department of Environmental Quality,
2005 North Central Avenue, Phoenix, Arizona. Groundwater Hydrology Section.

Table B
Confirmation Soil Samples Analytical Results (mg/kg)
Former Fruehauf Trailer Facility
Phoenix, Arizona
KERAMIDA Project No. 2961C

Sample No.	Date Sampled	Sample Location	Lab Sample No.	Total Lead
EF-1	2/27/2002	excavation floor	02020922-04A	**46**
EF-2	2/27/2002	excavation floor	02020922-05A	<5.0
NEW-1	2/27/2002	north excavation sidewall	02020922-06A	**16**
SEW-1	2/27/2002	south excavation sidewall	02020922-07A	**7.8**
WEW-1	2/27/2002	west excavation sidewall	02020922-08A	<5.0
EEW-1	2/27/2002	east excavation sidewall	02020922-09A	<5.0
Arizona DEQ Residential Soil Remediation Levels[1]				400
Arizona DEQ Non-Residential Soil Remediation Levels[1]				2,000
Arizona DEQ Common Background Ranges-Phoenix/Tucson Areas [2]				ND-24.5

Samples analyzed using EPA Method Series 6000/7000
mg/kg = milligrams per kilogram
[1] Arizona Administrative Code
Department of Environmental Quality - Remedial Action
Title 18, Chapter 7, Article 2: Soil Remediation Standards, March 31, 2001
[2] Source Use: The Earth Technology Corporation, 1991.
Evaluation of Background Metals Concentrations in Arizona Soils, Table B-2.
Concentrations of Selected Metals Detected in ADEQ Samples, June 1991.
Prepared for Arizona Department of Environmental Quality,
2005 North Central Avenue, Phoenix, Arizona. Groundwater Hydrology Section.

3

STARLING & ASSOCIATES, INC.

1220 SOUTH PARK LANE, SUITE 4
TEMPE, ARIZONA 85281
PHONE 480-517-9803
FAX 480-517-9857

consulting civil & structural engineers

Subject: Shoring at 902 S. 7th St.
Phoenix, AZ

Date: 2/19/02 **Job No:** 034-05. **By:** T.W.H.

Code ---------- 1997 UBC

Structural Steel ---------- A572

Reinforcing Steel ---------- N/A

Masonry ---------- N/A

Wood ---------- N/A

Concrete ---------- N/A

Soil Bearing ---------- 1500 psf

Index:

Calculations 1- 3

Registered Professional Engineer (Structural)
CERTIFIED
35974
THOMAS W.
HADLEY
Date Signed 2-19-02
ARIZONA U.S.A.

Starling & Associates, Inc.
1220 S. Park Lane, #4
Tempe, AZ 85281
PH 480/517-9803 FX 480/517-9857
www.starlingengineering.com

Title :
Dsgnr:
Description :
Scope :

Job #
Date: 3:54PM, 19 FEB 02

Rev: 550100
User: KW-0604077, Ver 5.5.0, 25-Sep-2001
(c)1983-2001 ENERCALC Engineering Software

Steel Beam Design

Description

General Information

Calculations are designed to AISC 9th Edition ASD and 1997 UBC Requirements

Steel Section : C12X20.7

		Pinned-Pinned	Fy	50.00 ksi
Center Span	24.00 ft	Bm Wt. Added to Loads	Load Duration Factor	1.00
Left Cant.	0.00 ft	LL & ST Don't Act Together	Elastic Modulus	29,000.0 ksi
Right Cant	0.00 ft			
Lu : Unbraced Length	12.00 ft			

Distributed Loads

	#1	#2	#3	#4	#5	#6	#7	
DL	0.220							k/ft
LL								k/ft
ST								k/ft
Start Location								ft
End Location	24.000							ft

Summary

Beam OK
Static Load Case Governs Stress

Using: C12X20.7 section, Span = 24.00ft, Fy = 50.0ksi
End Fixity :: Pinned-Pinned, Lu = 12.00ft, LDF = 1.000

	Actual	Allowable
Moment	17.329 k-ft	18.339 k-ft
fb : Bending Stress	9.672 ksi	10.236 ksi
fb / Fb	**0.945 : 1**	
Shear	2.888 k	67.680 k
fv : Shear Stres	0.853 ksi	20.000 ksi
fv / Fv	**0.043 : 1**	

Max. Deflection	-0.480 in
Length/DL Defl	599.7 : 1
Length/(DL+LL Defl)	599.7 : 1

Force & Stress Summary

<<– These columns are Dead + Live Load placed as noted –>>

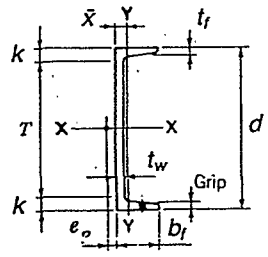
	Maximum	DL Only	LL @ Center	LL+ST @ Center	LL @ Cants	LL+ST @ Cants	
Max. M +	17.33 k-ft	17.33					k-ft
Max. M -							k-ft
Max. M @ Left							k-ft
Max. M @ Right							k-ft
Shear @ Left	2.89 k	2.89					k
Shear @ Right	2.89 k	2.89					k
Center Defl.	-0.480 in	-0.480	0.000	-0.480	0.000	0.000	in
Left Cant Defl	0.000 in	0.000	0.000	0.000	0.000	0.000	in
Right Cant Defl	0.000 in	0.000	0.000	0.000	0.000	0.000	in
...Query Defl @	0.000 ft	0.000	0.000	0.000	0.000	0.000	in
Reaction @ Left	2.89	2.89		2.89			k
Reaction @ Rt	2.89	2.89		2.89			k

Fa calc'd per 1.5-2, K*L/r > Cc

I Beam, Major Axis, Fb using 1.5-7 Governs, Fb = 12,000 Cb Af / (l * d)

Section Properties C12X20.7

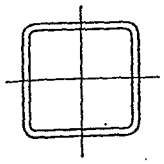
Depth	12.000 in	Weight	20.69 #/ft	r-xx	4.602 in
Width	2.942 in	I-xx	129.00 in4	r-yy	0.798 in
Web Thick	0.282 in	I-yy	3.88 in4		
Flange Thickness	0.501 in	S-xx	21.500 in3		
Area	6.09 in2	S-yy	1.729 in3		



CHANNELS
AMERICAN STANDARD
Dimensions

Designation	Area A	Depth d	Web Thickness t_w		Web $\frac{t_w}{2}$	Flange Width b_f		Flange Average thickness t_f		Distance T	Distance k	Grip	Max. Flge. Fastener
	In.^{2}	In.	In.		In.	In.		In.		In.	In.	In.	In.
C 15×50	14.7	15.00	0.716	11/16	3/8	3.716	3¾	0.650	5/8	12⅛	1 7/16	5/8	1
×40	11.8	15.00	0.520	½	¼	3.520	3½	0.650	5/8	12⅛	1 7/16	5/8	1
×33.9	9.96	15.00	0.400	3/8	3/16	3.400	3⅜	0.650	5/8	12⅛	1 7/16	5/8	1
C 12×30	8.82	12.00	0.510	½	¼	3.170	3⅛	0.501	½	9¾	1⅛	½	7/8
×25	7.35	12.00	0.387	3/8	3/16	3.047	3	0.501	½	9¾	1⅛	½	7/8
×20.7	6.09	12.00	0.282	5/16	⅛	2.942	3	0.501	½	9¾	1⅛	½	7/8
C 10×30	8.82	10.00	0.673	11/16	5/16	3.033	3	0.436	7/16	8	1	7/16	¾
×25	7.35	10.00	0.526	½	¼	2.886	2⅞	0.436	7/16	8	1	7/16	¾
×20	5.88	10.00	0.379	3/8	3/16	2.739	2¾	0.436	7/16	8	1	7/16	¾
×15.3	4.49	10.00	0.240	¼	⅛	2.600	2⅝	0.436	7/16	8	1	7/16	¾
C 9×20	5.88	9.00	0.448	7/16	¼	2.648	2⅝	0.413	7/16	7⅛	15/16	7/16	¾
×15	4.41	9.00	0.285	5/16	⅛	2.485	2½	0.413	7/16	7⅛	15/16	7/16	¾
×13.4	3.94	9.00	0.233	¼	⅛	2.433	2⅜	0.413	7/16	7⅛	15/16	7/16	¾
C 8×18.75	5.51	8.00	0.487	½	¼	2.527	2½	0.390	3/8	6⅛	15/16	3/8	¾
×13.75	4.04	8.00	0.303	5/16	⅛	2.343	2⅜	0.390	3/8	6⅛	15/16	3/8	¾
×11.5	3.38	8.00	0.220	¼	⅛	2.260	2¼	0.390	3/8	6⅛	15/16	3/8	¾
C 7×14.75	4.33	7.00	0.419	7/16	3/16	2.299	2¼	0.366	3/8	5¼	7/8	3/8	5/8
×12.25	3.60	7.00	0.314	5/16	3/16	2.194	2¼	0.366	3/8	5¼	7/8	3/8	5/8
× 9.8	2.87	7.00	0.210	3/16	⅛	2.090	2⅛	0.366	3/8	5¼	7/8	3/8	5/8
C 6×13	3.83	6.00	0.437	7/16	3/16	2.157	2⅛	0.343	5/16	4⅜	13/16	5/16	5/8
×10.5	3.09	6.00	0.314	5/16	3/16	2.034	2	0.343	5/16	4⅜	13/16	3/8	5/8
× 8.2	2.40	6.00	0.200	3/16	⅛	1.920	1⅞	0.343	5/16	4⅜	13/16	5/16	5/8
C 5× 9	2.64	5.00	0.325	5/16	3/16	1.885	1⅞	0.320	5/16	3½	¾	5/16	5/8
× 6.7	1.97	5.00	0.190	3/16	⅛	1.750	1¾	0.320	5/16	3½	¾	—	—
C 4× 7.25	2.13	4.00	0.321	5/16	3/16	1.721	1¾	0.296	5/16	2⅝	11/16	5/16	5/8
× 5.4	1.59	4.00	0.184	3/16	1/16	1.584	1⅝	0.296	5/16	2⅝	11/16	—	—
C 3× 6	1.76	3.00	0.356	3/8	3/16	1.596	1⅝	0.273	¼	1⅝	11/16	—	—
× 5	1.47	3.00	0.258	¼	⅛	1.498	1½	0.273	¼	1⅝	11/16	—	—
× 4.1	1.21	3.00	0.170	3/16	1/16	1.410	1⅜	0.273	¼	1⅝	11/16	—	—

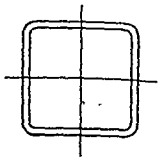
F_y = 46 ksi



COLUMNS
Square structural tubing
Allowable concentric loads in kips

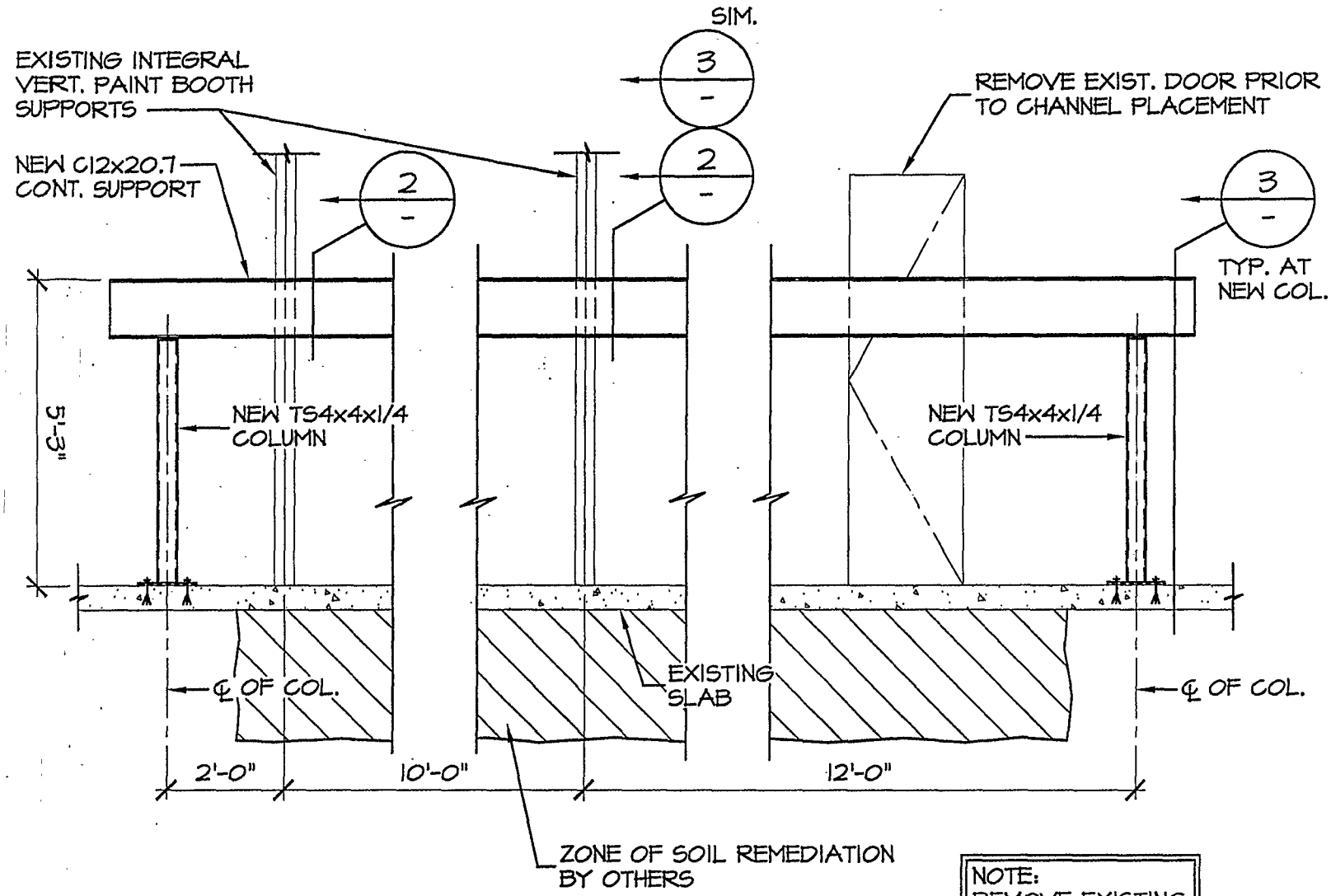
Nominal Size	4 × 4					3 × 3		
Thickness	½	⅜	5/16	¼	3/16	5/16	¼	3/16
Wt./ft	21.63	17.27	14.83	12.21	9.42	10.58	8.81	6.87
F_y	46 ksi							
Effective length in ft KL with respect to radius of gyration 0	176	140	120	99	76	86	71	56
2	168	134	115	95	73	80	67	53
3	162	130	112	92	71	77	64	50
4	156	126	108	89	69	73	61	48
5	150	121	104	86	67	68	57	45
6	143	115	100	83	64	63	53	42
7	135	110	95	79	61	57	49	39
8	126	103	90	75	58	51	44	35
9	117	97	84	70	55	44	38	31
10	108	89	78	65	51	37	33	27
11	98	82	72	60	47	31	27	22
12	87	74	65	55	43	26	23	19
13	75	65	58	49	39	22	19	16
14	65	57	51	43	35	19	17	14
15	57	49	44	38	30	16	15	12
16	50	43	39	33	27	14	13	11
17	44	38	34	29	24	13	11	9
18	39	34	31	26	21		10	8
19	35	31	28	24	19			
20	32	28	25	21	17			
21	29	25	23	19	16			
22	26	23	21	18	14			
23	24	21	19	16	13			
24		19	17	15	12			
25				14	11			
Properties								
A (in.^{2})	6.36	5.08	4.36	3.59	2.77	3.11	2.59	2.02
I (in.^{4})	12.3	10.7	9.58	8.22	6.59	3.58	3.16	2.60
r (in.)	1.39	1.45	1.48	1.51	1.54	1.07	1.10	1.13
B } Bending factor	1.04	0.949	0.910	0.874	0.840	1.30	1.23	1.17
$a/10^6$	1.83	1.59	1.43	1.22	0.983	0.533	0.470	0.387

Note: Heavy line indicates Kl/r of 200.



.l IS
uctural tubing
entric loads in kips

		5 × 5				
¼	3/16	½	⅜	5/16	¼	3/16
19.02	14.53	28.43	22.37	19.08	15.62	11.97
46 ksi						
154	118	231	182	155	127	97
140	107	200	159	136	111	86
137	105	193	153	131	108	83
133	102	186	148	127	104	80
130	99	178	142	122	100	77
126	96	169	135	116	96	74
122	93	160	129	111	92	71
117	90	151	122	105	87	67
113	87	141	115	99	82	64
108	83	131	107	93	77	60
104	80	120	99	86	72	56
99	76	109	90	79	66	52
94	72	97	82	72	60	47
88	68	87	73	64	54	43
83	64	78	65	58	49	39
77	60	70	59	52	44	35
[illegible]	56	64	54	47	40	32
[illegible]	51	58	49	43	36	29
[illegible]	43	49	41	36	31	24
[illegible]	36	41	35	31	26	21
[illegible]	31	36	30	27	22	18
[illegible]	27	31	26	23	20	15
[illegible]	26		25	22	18	14
[illegible]	24				17	14
[illegible]	21					
[illegible]	19					
[illegible]	18					
[illegible]	17					
[illegible]	16					
Properties						
[illegible]	4.27	8.36	6.58	5.61	4.59	3.52
[illegible]	23.8	27.0	22.8	20.1	16.9	13.4
[illegible]	2.36	1.80	1.86	1.89	1.92	1.95
[illegible]	0.539	0.773	0.722	0.699	0.677	0.656
[illegible]	3.54	4.03	3.39	2.99	2.52	2.00



NOTE:
REMOVE EXISTING ANGLE BRACKETS

1 ELEVATION

NO SCALE

Registered Professional Engineer (Structural)
CERTIFICATE NO. 35974
THOMAS W. HADLEY
Date Signed 2-19-02
ARIZONA, U.S.A.

SHORING AT:
902 S. 7TH STREET
PHOENIX, ARIZONA

KERAMIDA ENVIROMENTAL
330 N. COLLEGE AVE.
INDIANAPOLIS, IN. 46202

S&A
STARLING & ASSOCIATES, INC.
1220 S. PARK LANE, SUITE #4
TEMPE, ARIZONA 85281
(480) 517-9803
FAX (480) 517-9857

DRAWN BY:	AEG	DATE:	2-18-02
DESIGNED BY:	T.H.	JOB NO:	034-02

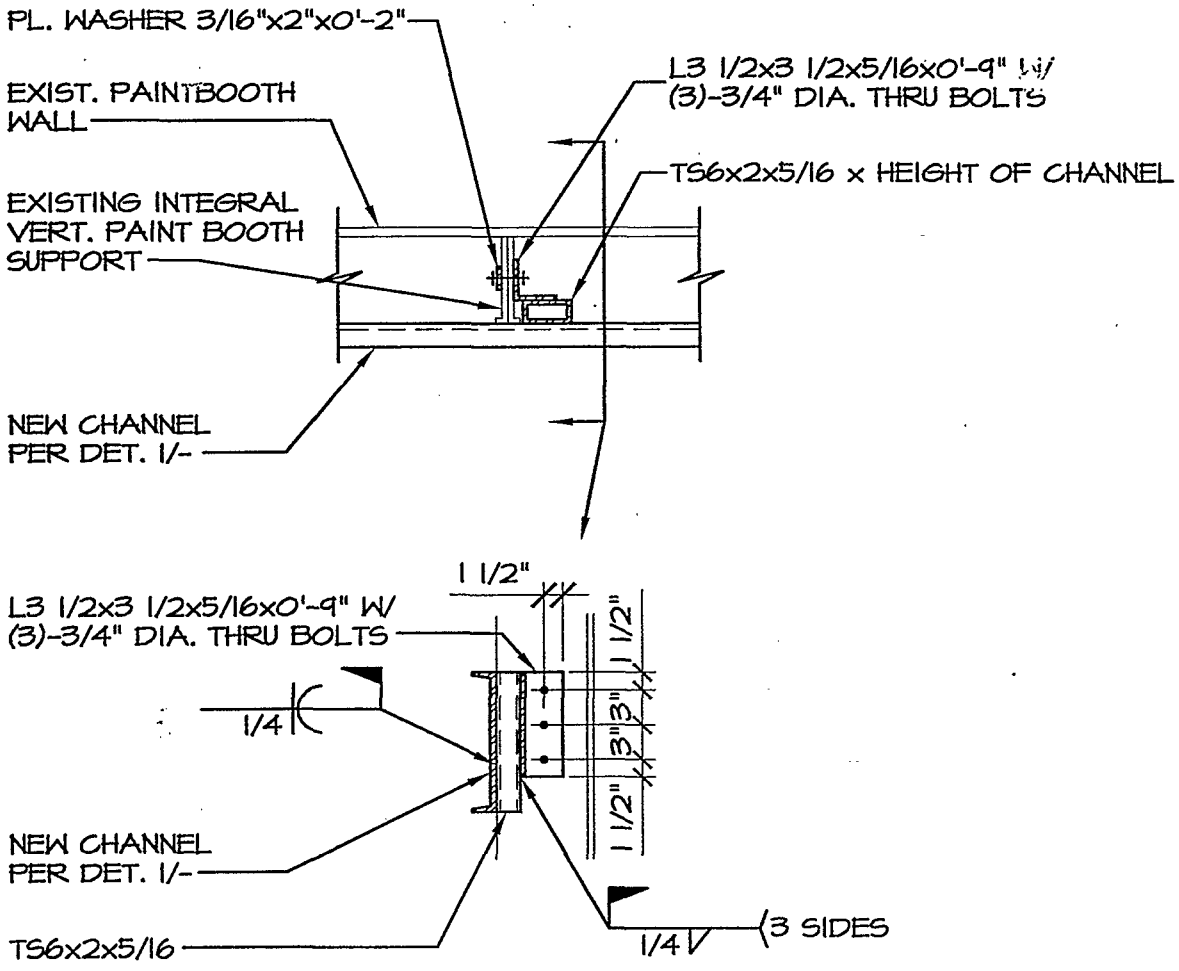
S&A
STARLING & ASSOCIATES, INC.
1220 S. PARK LANE, SUITE #4
TEMPE, ARIZONA 85281
(480) 517-9803
FAX (480) 517-9857

SHORING AT:
902 S. 7TH STREET
PHOENIX, ARIZONA

KERAMIDA ENVIROMENTAL
330 N. COLLEGE AVE.
INDIANAPOLIS, IN. 46202

Registered Professional Engineer (Structural)
CERTIFICATE NO. 35974
THOMAS W. HADLEY
Date Signed 2-19-02
ARIZONA, U.S.A.

DRAWN BY:	AEG	DATE:	2-18-02
DESIGNED BY:	T.H.	JOB NO:	034-02



2 DETAIL

SCALE: 3/4"=1'-0"

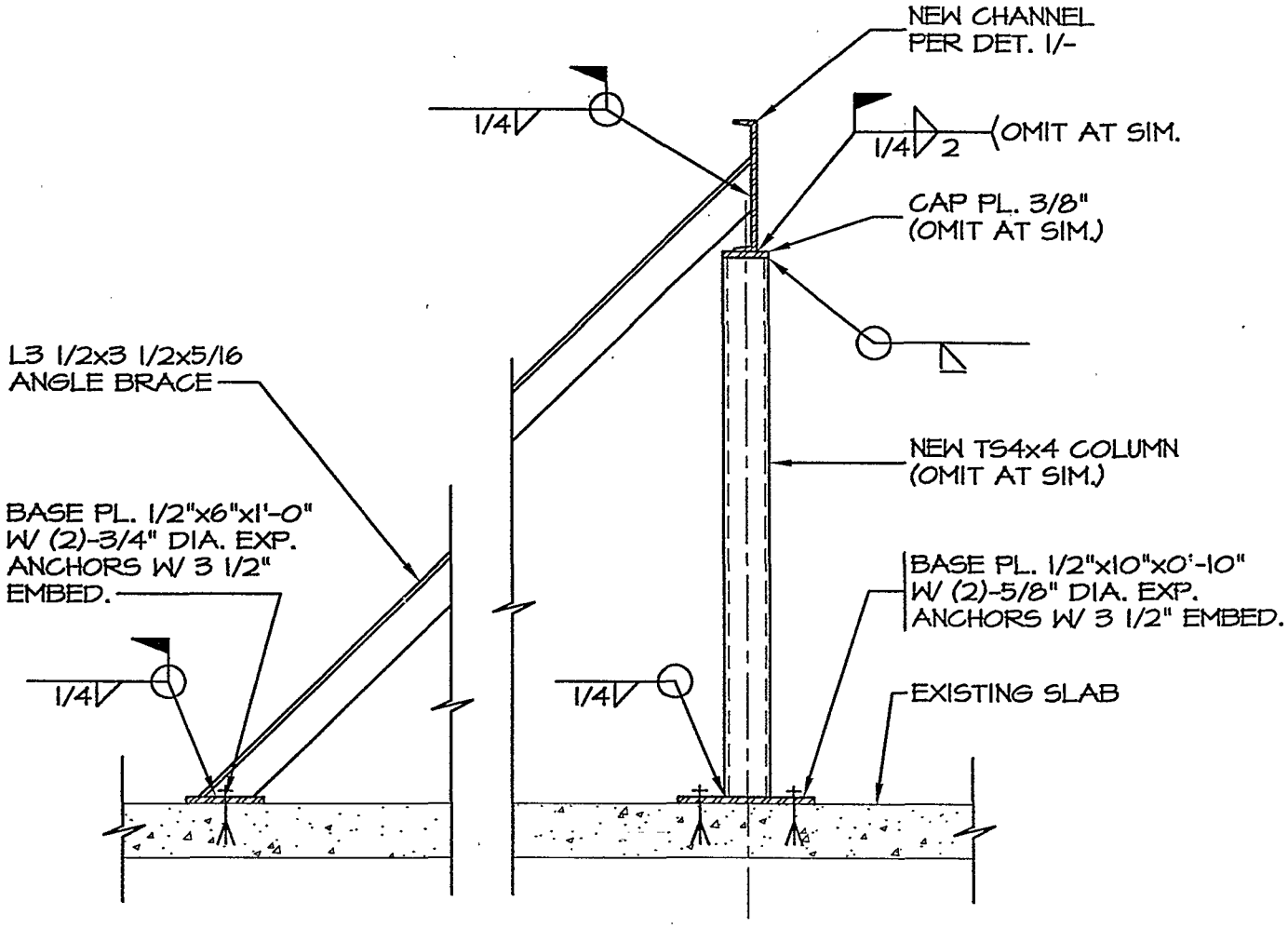
S&A
STARLING & ASSOCIATES, INC.
1220 S. PARK LANE, SUITE #4
TEMPE, ARIZONA 85281
(480) 517-9803
FAX (480) 517-9857

SHORING AT:
902 S. 7TH STREET
PHOENIX, ARIZONA

KERAMIDA ENVIROMENTAL
330 N. COLLEGE AVE.
INDIANAPOLIS, IN. 46202

Registered Professional Engineer (Structural)
CERTIFICATE NO. 35974
THOMAS W. HADLEY
Date Signed 2-19-02
ARIZONA, U.S.A.

DRAWN BY:	AEG	DATE:	2-18-02
DESIGNED BY:	T.H.	JOB NO:	034-02



3 SECTION

SCALE: 3/4"=1'-0"

h

ALLIED WASTE

GENERATOR WASTE PROFILE SHEET

Requested Disposal Facility: Southwest Regional
an Allied Waste Company

Waste Profile #
AWI Sales Rep:
Date:

I. Generator Information

Generator Name: Wabash National, LLC			
Generator Site Address: 902 South 7th Street			
City: Phoenix	County: Maricopa	State: AZ	Zip: 85034
State ID/Reg No:	State Approval/Waste Code: (If applicable)		SIC Code:
Generator Mailing Address (if different): 1000 Sagamore Parkway South			
City: Lafayette	County:	State: IN	Zip: 47903
Generator Contact Name: Rick Bossingham			
Phone Number: (765) 771-5443		Fax Number: (765) 771-5607	

IIa. Transporter Information

Transporter Name: Chemical Transportation, Inc.		Contact Name: Kyle Wilcox	
Transporter Address: 1945 East Jackson Street			
City: Phoenix	County: Maricopa	State: AZ	Zip: 85034
Phone Number: (888) 444-7077	Fax Number: (602) 275-1666	State Transportation Number: 300040	

IIb. Billing Information

Bill To: Keramida Environmental, Inc.		Contact Name: Chris Haviland	
Billing Address: 330 N. College Avenue			
City: Indianapolis	State: IN	Zip: 46202	Phone Number: (317) 685-6622

III. Waste Stream Information

Name of Waste: lead contaminated soil

Process Generating Waste: Excavation of floor & soils under former spray paint booth at facility

Type of Waste: ☐ INDUSTRIAL PROCESS WASTE or ☒ POLLUTION CONTROL WASTE

Physical State: ☒ SOLID ☐ SEMI-SOLID ☐ POWDER ☐ LIQUID ☐ OTHER: ____

Method of Shipment: ☒ BULK ☐ DRUM ☐ BAGGED ☐ OTHER: ____

Estimated Annual Volume: ☐ CUBIC YARDS: ____ ☒ TONS: 70 ☐ GALLONS ____ ☐ OTHER: ____

Frequency: ☒ ONE TIME ☐ DAILY ☐ WEEKLY ☐ MONTHLY ☐ OTHER:

Special Handling Instructions:

IV. Representative Sample Certification

Is the representative sample collected to prepare this profile and laboratory analysis, collected in accordance with U.S. EPA 40 CFR 261.20(c) guidelines or equivalent rules? ☒ YES or ☐ NO

Sample Date: 2/27/02	Type of Sample: ☒ COMPOSITE SAMPLE ☐ GRAB SAMPLE	
Laboratory: Precision Analytical Laboratories, Inc.	Sample ID Numbers: 02020922-01A, 02A, 03A, 10A	
Sampler's Employer: Keramida Environmental, Inc.		
Sampler's Name (printed): Gregory L. Heuer	Signature: Gregory L. Heuer	

© Allied Waste Industries, February 2001

ALLIED WASTE

GENERATOR WASTE PROFILE SHEET (continued)

Waste Profile #

V. Physical Characteristics of Waste

Characteristic Components						
Soil w/ lead				100 % by Weight (range)		
1.						
2.						
3.						
4.						
5.						
Color	Odor (describe)	Free Liquids	% Solids	pH:	Flash Point	Phenol
brown	none	☐ YES or ☒ NO Content ___ %	100	N/A	N/A °F	N/A ppm

Attach Laboratory Analytical Report (and/or Material Safety Data Sheet) Including Required Parameters Provided for this Profile

Does this waste or generating process contain regulated concentrations of the following Pesticides and/or Herbicides: Chlordane, Endrin, Heptachlor (and it epoxides), Lindane, Methoxychlor, Toxaphene, 2,4-D, or 2,4,5-TP Silvex as defined in 40 CFR 261.33?	☐ Yes or ☒ No
Does this waste or generating process cause it to exceed OSHA exposure limits from high levels of Hydrogen Sulfide or Hydrogen Cyanide as defined in 40 CFR 261.23?	☐ Yes or ☒ No
Does this waste contain regulated concentrations of Polychlorinated Biphenyls (PCBs) as defined in 40 CFR Part 761?	☐ Yes or ☒ No
Does this waste contain regulated concentrations of listed hazardous wastes defined in 40 CFR 261.31, 261.32, 261.33, including RCRA F-Listed Solvents?	☐ Yes or ☒ No
Does this waste contain regulated concentrations of 2,3,7,8-Tetrachlorodibenzodioxin (2,3,7,8-TCDD), or any other dioxin as defined in 40 CFR 261.31?	☐ Yes or ☒ No
Is this a regulated Toxic Material as defined by Federal and/or State regulations?	☐ Yes or ☒ No
Is this a regulated Radioactive Waste as defined by Federal and/or State regulations?	☐ Yes or ☒ No
Is this a regulated Medical or Infectious Waste as defined by Federal and/or State regulations?	☐ Yes or ☒ No
Is this waste generated at a Federal Superfund Clean Up Site?	☐ Yes or ☒ No

VI. Generator Certification

I hereby certify that to the best of my knowledge and belief, the information contained herein is a true, complete and accurate description of the waste material being offered for disposal and all known or suspected hazards have been disclosed. All Analytical Results/Material Safety Data Sheets submitted are truthful and complete and are representative of the waste. I further certify that by utilizing this profile, neither myself nor any other employee of the company will deliver for disposal or attempt to deliver for disposal any waste which is classified as toxic waste, hazardous waste or infectious waste, or any other waste material this facility is prohibited from accepting by law. I shall immediately give written notice of any change or condition pertaining to the waste not provided herein. Our company hereby agrees to fully indemnify this disposal facility against any damages resulting from this certification being inaccurate or untrue. I further certify that the company has not altered the form or content of this profile sheet as provided by Allied Waste Industries, Inc. The undersigned individual warrants that he/she is authorized to sign this document on behalf of the Generator.

RICK BOSSINGHAM, DIRECTOR, ENV.	WABASH NATIONAL, LLC
Authorized Representative Name And Title (Printed)	Company Name
Rick B	3/1/02
Authorized Representative Signature	Date

VII. Allied Waste Decision

☐ Approved ☐ Rejected Expiration: _____

Conditions:

Name, Title	Signature	Date

© Allied Waste Industries, February 2001

STRAIGHT BILL OF LADING
ORIGINAL - NOT NEGOTIABLE

Shipper's No. 19752

CARRIER: CHEMICAL TRANSPORTATION, INC.
P.O. BOX 397 – Rillito, AZ 85654

SCAC

Carrier's No.
Date

TO:
Consignee
Destination Zip

FROM:
Shipper
Street
Origin Zip

Route:

Vehicle Number 497-9500

No. Packages	HM	Kind of Packages, Description of Articles (IF HAZARDOUS MATERIALS - PROPER SHIPPING NAME)	Hazard Class	I.D. Number	Packing Group	Weight (Subject to Correction)	Rate	Labels Required (If Applicable)
		Ben 963						

Remit C.O.D. to:
Address:
City: State: Zip:

COD Amt: $

C.O.D. FEE:
Prepaid ☐
Collect ☐ $

NOTE – Where the rate is dependent on value, shippers are required to state specifically in writ... the agreed or declared value of the property. The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding $ Per

FREIGHT CHARGES
☐ PREPAID ☐ COLLECT

RECEIVED, subject to the classifications and lawfully filed tariffs in effect on the date of issue of this Bill of Lading, the property described above in apparent good order, except as noted (contents and condition of contents of packages unknown), marked, consigned, and destined as indicated above which said carrier (the word carrier being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery at said destination, if on its route, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed, as to each carrier of all or any said property over all or any portion of said route to destination and as to each party at any time interested in all or any said property, that every service to be performed hereunder shall be subject to all the terms and conditions of the Bill of Lading terms and conditions in the governing classification on the date of shipment.
Shipper hereby certifies that he is familiar with all the bill of lading terms and conditions in the governing classification and the said terms and conditions are hereby agreed to by the shipper and accepted for himself and his assigns.

This is to certify that the above-named materials are properly classified, described, packaged, marked and labeled and are in proper condition for transportation according to the applicable regulations of the Department of Transportation.
Per

PLACARDS SUPPLIED

PLACARDS REQUIRED ☐ YES ☐ NO – FURNISHED BY CARRIER
DRIVER SIGNATURE

SHIPPER:
PER:
DATE:

CARRIER: CHEMICAL TRANSPORTATION, INC.
PER:
DATE: 3-11-02

EMERGENCY RESPONSE TELEPHONE NUMBER: ( )

Monitored at all times the Hazardous Material is in transportation including storage incidental to transportation (172.604).

Post-it™ brand fax transmittal memo 7671 | # of pages ▸ 2

To	From
Co. BRIDGER	Co. DEBRA
Dept.	Phone #
Fax #	Fax #

Southwest Regional Landfill
24427 S. Highway 85
Buckeye, AZ 85326
Tel: (623) 393-0085
An Allied Waste Industries Operation

001072
CHEMICAL TRANSPORATION, INC.
KYLE WILCOX
P.O. DRAWER 397
RILLITO AZ 85654

SITE	TICKET	GRID
20	121707	
WEIGHMASTER: JOY		
DATE IN: 03/07/02		TIME IN: 16:12
DATE OUT: 03/07/02		TIME OUT: 16:13
VEHICLE: CTI 497		ROLL OFF
REFERENCE: 006	ORIGIN	

Manual Gross Weight 91920 LB
Stored Tare Weight 35240 LB
Net Weight 56680 LB

Inbound - Charge ticket

QTY	UNIT	DESCRIPTION	RATE	EXTENSION	TAX	TOTAL
28.34	TON	SOIL 1	22.00	623.48	7.09	630.57

SW 755Y21735

NET AMOUNT
630.57
TENDERED
CHANGE
CHECK NO.

SIGNATURE Cliff May

Received Time Mar.11. 12:31PM

THE MILES LABEL CO., INC. – (520) 724-0598

STRAIGHT BILL OF LADING
ORIGINAL - NOT NEGOTIABLE

19758

Shipper's No. 19753

CARRIER: CHEMICAL TRANSPORTATION, INC.
P.O. BOX 397 – Rillito, AZ 85654

SCAC

Carrier's No. 271698
Date 03-07-02

TO: SW Regional Landfill
Consignee
Street 24427 S. Hwy 85
Destination Buckeye, AZ Zip 85326

FROM: Fruehauf
Shipper 902 S. 7th St
Street
Origin Phoenix, AZ Zip 85034

Route:

Vehicle Number

No. Shipping Units	HM	Kind of Packages, Description of Articles (IF HAZARDOUS MATERIALS - PROPER SHIPPING NAME)	HAZARD CLASS	ID Number	PACKING GROUP	WEIGHT	RATE	WEIGHT REQUIRED
1		Lead ~~Petroleum~~ Contaminated Soil	Na	Na	Na	20yd	—	—
		profile #755y21735						
		Bin # 794						

Remit C.O.D. to:
Address:
City: State: Zip:

COD Amt: $

C.O.D. FEE:
Prepaid ☐
Collect ☐ $

NOTE — Where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property. The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding $ Per

Subject to Section 7 of the conditions, if this shipment is to be delivered to the consignee without recourse on the consignor, the consignor shall sign the following statement: The carrier shall not make delivery of this shipment without payment of freight and all other lawful charges. (Signature of Consignor)

FREIGHT CHARGES
☐ PREPAID ☐ COLLECT

RECEIVED, subject to the classifications and lawfully filed tariffs in effect on the date of issue of this Bill of Lading, the property described above in apparent good order, except as noted (contents and condition of contents of packages unknown), marked, consigned, and destined as indicated above which said carrier (the word carrier being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery at said destination, if on its route, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed as to each carrier of all or any of said property over all or any portion of said route to destination and as to each party at any time interested in all or any said property, that every service to be performed hereunder shall be subject to all the bill of lading terms and conditions in the governing classification on the date of shipment.
Shipper hereby certifies that he is familiar with all the bill of lading terms and conditions in the governing classification and the said terms and conditions are hereby agreed to by the shipper and accepted for himself and his assigns.

This is to certify that the above-named materials are properly classified, described, packaged, marked and labeled and are in proper condition for transportation according to the applicable regulations of the Department of Transportation.
Per

PLACARDS REQUIRED

PLACARDS SUPPLIED ☐ YES ☐ NO — FURNISHED BY CARRIER
DRIVER SIGNATURE:

SHIPPER: Fruehauf
PER:
DATE: 03-07-02

CARRIER: CHEMICAL TRANSPORTATION, INC.
PER: 6655
DATE: 03-07-02

EMERGENCY RESPONSE TELEPHONE NUMBER: ( )

Monitored at all times the Hazardous Material is in transportation including storage incidental to transportation (172.604).

Southwest Regional Landfill
24427 S. Highway 85
Buckeye, AZ 85326
Tel: (623) 393-0085
(An Allied Waste Industries Operation)

SITE 20	TICKET [illegible]	GRID
WEIGHMASTER KATHY		
DATE IN 03/08/02		TIME IN 13:38
DATE OUT 03/08/02		TIME OUT 13:39
VEHICLE CTI 499 20		ROLL OFF
REFERENCE 006	ORIGIN 25167	

001072
CHEMICAL TRANSPORATION, INC.
KYLE WILCOX
P.O. DRAWER 397
RILLITO AZ 85654

Manual Gross Weight 62240 LB
Stored Tare Weight 34940 LB
Net Weight 27300 LB

Inbound - Charge ticket

13.65	TON	SOIL 1	22.00	300.30	3.41	303.7

SW 755Y21735

NET AMOUNT	303.7
TENDERED	
CHANGE	
CHECK NO.	

SIGNATURE

THE MILES LABEL CO., INC. (520) 744-0696

STRAIGHT BILL OF LADING
ORIGINAL - NOT NEGOTIABLE

Shipper's No. 16501

CARRIER: CHEMICAL TRANSPORTATION, INC.
P.O. BOX 397 – Rillito, AZ 85654

SCAC

Carrier's No.
Date

TO: SW REGIONAL
Consignee 24427 S HWY 85
Street
Destination BUCKEYE AZ Zip

FROM: FRUCHAUF
Shipper 902 S. 7TH ST
Street
Origin PHX AZ Zip

Route:

Vehicle Number

No. Shipping Units	HM	Kind of Packages, Description of Articles (IF HAZARDOUS MATERIALS - PROPER SHIPPING NAME)	HAZARD CLASS	I.D. Number	PACKING GROUP	WEIGHT (subject to correction)	RATE	LABELS REQUIRED (or exemption)
1		CONTAMINATED Soil	NA	NA	NA	20 YARD		
		Prof. #755 Y 21735						
		905						
		BINS	K Tango					

Remit C.O.D. to:
Address:
City: State: Zip:

COD Amt: $

C.O.D. FEE:
Prepaid ☐
Collect ☐ $

NOTE — Where the rate is dependent on value, shippers are required to state specifically in writ the agreed or declared value of the property. The agreed or declared value of the property hereby specifically stated by the shipper to be not exceeding $ Per

Subject to Section 7 of the conditions, if this shipment is to be delivered to the consignee without recourse on the consignor, the consignor shall sign the following statement:
The carrier shall not make delivery of this shipment without payment of freight and all other lawful charges.
(Signature of Consignor)

FREIGHT CHARGES
☐ PREPAID ☐ COLLECT

RECEIVED, subject to the classifications and lawfully filed tariffs in effect on the date of issue of this Bill of Lading, the property described above in apparent good order, except as noted (contents and condition of contents of packages unknown), marked, consigned, and destined as indicated above which said carrier (the word carrier being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery at said destination, if on its route, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed as to each carrier of all or any of, said property over all or any portion of said route to destination and as to each party at any time interested in all or any said property, that every service to be performed hereunder shall be subject to all the bill of lading terms and conditions in the governing classification on the date of shipment.
Shipper hereby certifies that he is familiar with all the bill of lading terms and conditions in the governing classification and the said terms and conditions are hereby agreed to by the shipper and accepted for himself and his assigns.

This is to certify that the above-named materials are properly classified, described, packaged, marked and labeled and are in proper condition for transportation according to the applicable regulations of the Department of Transportation.

PLACARDS REQUIRED

PLACARDS SUPPLIED ☐ YES ☐ NO — FURNISHED BY CARRIER
DRIVER SIGNATURE:

SHIPPER: FRUCHAUF
PER:
DATE: 3-7-02

CARRIER: CHEMICAL TRANSPORTATION, INC.
PER: [illegible]
DATE: 3-7-02

EMERGENCY RESPONSE TELEPHONE NUMBER: ( )

Monitored at all times the Hazardous Material is in transportation including storage incidental to transportation (172.604).

Southwest Regional Landfill
24427 S. Highway 85
Buckeye, AZ 85326
Tel: (623) 393-0085
(An Allied Waste Industries Operation)

SITE	TICKET	GRID
19	[illegible]	

WEIGHMASTER: KATHY

DATE IN	TIME IN
03/08/02	10:30

DATE OUT	TIME OUT
03/08/02	10:32

VEHICLE	ROLL OFF
CTI 499 20	

REFERENCE	ORIGIN
006	

001072
CHEMICAL TRANSPORATION, INC.
KYLE WILCOX
P.O. DRAWER 397
RILLITO AZ 85654

Manual Gross Weight 60420 LB
Stored Tare Weight 34940 LB
Net Weight 25480 LB

Inbound - Charge ticket

12.74	TON	SOIL 1	22.00	280.28	3.15	283.4

SW 755X21735

NET AMOUNT
283.4
TENDERED
CHANGE
CHECK NO.

SIGNATURE

THE MILES LABEL CO., INC. – (520) 744-0696

STRAIGHT BILL OF LADING
ORIGINAL - NOT NEGOTIABLE

Shipper's No. 19754

CARRIER: CHEMICAL TRANSPORTATION, INC. P.O. BOX 397 – Rillito, AZ 85654

SCAC

Carrier's No.
Date

TO: SW Regional landfill
Consignee 24427 S Hwy 85
Street
Destination Buckeye, AZ Zip 85326

FROM: Fredkauf
Shipper 402 S. 7th ST.
Street
Origin Phoenix AZ Zip 85034

Route:

Vehicle Number

No. Shipping Units	HM	Kind of Packages, Description of Articles (IF HAZARDOUS MATERIALS - PROPER SHIPPING NAME)	HAZARD CLASS	I.D. Number	PACKING GROUP	WEIGHT (Subject to Correction)	RATE	LABELS REQUIRED (If Applicable)
1		Lead ~~Petroleum~~ Contaminated Soil	NA	NA	NA	20 yd	–	—
		profile # 755 y 21735						
		BM 1065						

Remit C.O.D. to:
Address:
City: State: Zip:

COD Amt: $

C.O.D. FEE:
Prepaid ☐
Collect ☐ $

NOTE — Where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property. The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding $ Per

Subject to Section 7 of the conditions, if this shipment is to be delivered to the consignee without recourse on the consignor, the consignor shall sign the following statement:
The carrier shall not make delivery of this shipment without payment of freight and all other lawful charges.
(Signature of Consignor)

FREIGHT CHARGES
☐ PREPAID ☐ COLLECT

RECEIVED, subject to the classifications and lawfully filed tariffs in effect on the date of issue of this Bill of Lading, the property described above in apparent good order, except as noted (contents and condition of contents of packages unknown), marked, consigned, and destined as indicated above which said carrier (the word carrier being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery at said destination, if on its route, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed as to each carrier of all or any of, said property over all or any portion of said route to destination and as to each party at any time interested in all or any said property, that every service to be performed hereunder shall be subject to all the bill of lading terms and conditions in the governing classification on the date of shipment.
Shipper hereby certified that he is familiar with all the bill of lading terms and conditions in the governing classification and the said terms and conditions are hereby agreed to by the shipper and accepted for himself and his assigns.

This is to certify that the above-named materials are properly classified, described, packaged, marked and labeled and are in proper condition for transportation according to the applicable regulations of the Department of Transportation.
Per

PLACARDS REQUIRED

PLACARDS SUPPLIED ☐ YES ☐ NO — FURNISHED BY CARRIER
DRIVER SIGNATURE:

SHIPPER:
PER:
DATE:

CARRIER: CHEMICAL TRANSPORTATION, INC.
PER: Gerardo Perez
DATE: 3-7-02

EMERGENCY RESPONSE TELEPHONE NUMBER: ( )

Monitored at all times the Hazardous Material is in transportation including storage incidental to transportation (172.604).

Southwest Regional Landfill
24427 S. Highway 85
Buckeye, AZ 85326
Tel: (623) 393-0085
(An Allied Waste Industries Operation)

SITE	TICKET	GRID
2%	221735	

WEIGHMASTER: KATHY

DATE IN	TIME IN
03/08/02	07:40

DATE OUT	TIME OUT
03/06/02	07:41

VEHICLE	ROLL OFF
CTI 499 20	2760

REFERENCE	ORIGIN
006	

001072
CHEMICAL TRANSPORATION, INC.
KYLE WILCOX
P.O. DRAWER 397
RILLITO AZ 85654

Manual Gross Weight 56760 LB
Stored Tare Weight 34940 LB
Net Weight 21820 LB

Inbound - Charge ticket

10.91	TON	SOIL 1	22.00	240.02	2.73	242.7

SW 755Y21735

NET AMOUNT 242.7
TENDERED
CHANGE
CHECK NO.

SIGNATURE

5

amec

March 5, 2002
AMEC Job No. 2-119-000041
Report No.1

Chemical Transportation, Inc.
1945 East Jackson Street
Phoenix, Arizona 85034

Attention: **Mr. Paul Runyon**

RE: **FRUEHAUF WAREHOUSE**
7TH STREET & BUCKEYE ROAD
PHOENIX, ARIZONA

Transmitted herewith is a Special Inspection/Daily Progress Report and results of compaction testing performed at the above referenced project on February 28, 2002. Also included are results of sieve analysis, plasticity index and moisture-density relations tests performed in our laboratory.

Should any questions arise concerning this report, please do not hesitate to call.

Respectfully submitted,
AMEC Earth & Environmental, Inc.

Marty D. Verquer
Field Supervisor

Materials/projects/2002/21190041/Report No. 1

AMEC Earth & Environmental, Inc.
3232 West Virginia Avenue
Phoenix, Arizona 85009-1502
Tel +1 (602) 272-6848
Fax +1 (602) 272-7239 www.amec.com

amec

SPECIAL INSPECTION / DAILY PROGRESS REPORT

SERVICES SCHEDULED

Project number	2-119-000041		Report	1	
Project name	Fruehauf Warehouse	Date	02/28/02	Time	1:00pm
Project location	7th Street & Buckeye Road				
Services requested	Compaction Testing/ABC Sampling	By:	Paul Runyon		

SERVICES PERFORMED

SOIL/ABC		CONCRETE		ASPHALT		MASONRY	
Sandcone tests		Concr. volume		AC placement (tons)		# of grout prisms	
Nuclear tests	6	Sets of cyl.		Nuclear tests		# of mortar specimens	
Spec. insp		# of cylinders		# of samples		# of masonry prisms	
Testing Only		# of cores		# of cores		Special inspection	
Footing insp		Spec. insp.		Observation & testing		Testing only	
Caisson insp.		Testing only		Testing only		Sample pickup	
Sample pickup	x	Monitor slump		Other			
		Sample pickup					

SPECIFICATIONS: 95% minimum compaction (ASTM D698).

STRUCTURE: Slab, Bays 13 and 14.

PRODUCT: Cemex ID #601401 MAG ABC, Curve A, 119.2 pcf at 13.3% moisture.

SCOPE: Performed 6 nuclear density tests. Sampled material for lab analysis.

RESULTS: Five tests indicated passing results; one test at 94%.

NOTIFICATION: Paul/Chemical Transportation

Notes/Comments: Obtained one ABC sample for lab analysis.

AMEC Representative: Harold Deverger-Painter

amec

Project	Fruehauf Warehouse	Job Number	2-119-000041
Location	7th Street & Buckeye Road	Date	02/28/02
		Report Number	1

DENSITY OF SOIL IN PLACE BY THE SAND CONE METHOD (ASTM D1556, AAHSTO T217 & T224)
DENSITY OF SOIL IN PLACE BY THE NUCLEAR METHOD (ASTM D2922 & D3017)

CURVES:		DESCRIPTION:	DENS. (PCF)	MOIST (%)
	A	ABC Backfill On Site	119.2	13.3

SAND CONE TESTS:

Test #	Location	El. *	Rock %	Dry Dens. (PCF)	Moist. (%)	Comp. (%)	Req. Comp. (%)	Curve

NUCLEAR TESTS:

Test #	Location	El. *	Rock %	Dry Dens. (PCF)	Moist. (%)	Comp. (%)	Req. Comp. (%)	Curve
1	Bay 13	-18"	51.5	129.0	6.5	96	95	A
2	Bay 13	-18"	51.5	126.0	6.0	94	95	A
3	Bay 14	-18"	51.5	130.0	6.0	97	95	A
4	Bay 14	-18"	51.5	129.7	5.5	96	95	A
5	Bay 13	-8"	51.5	128.7	8.1	96	95	A
6	Bay 14	-8"	51.5	128.8	6.8	96	95	A

* DEPTH OF REFERENCE POINT: Finished Floor

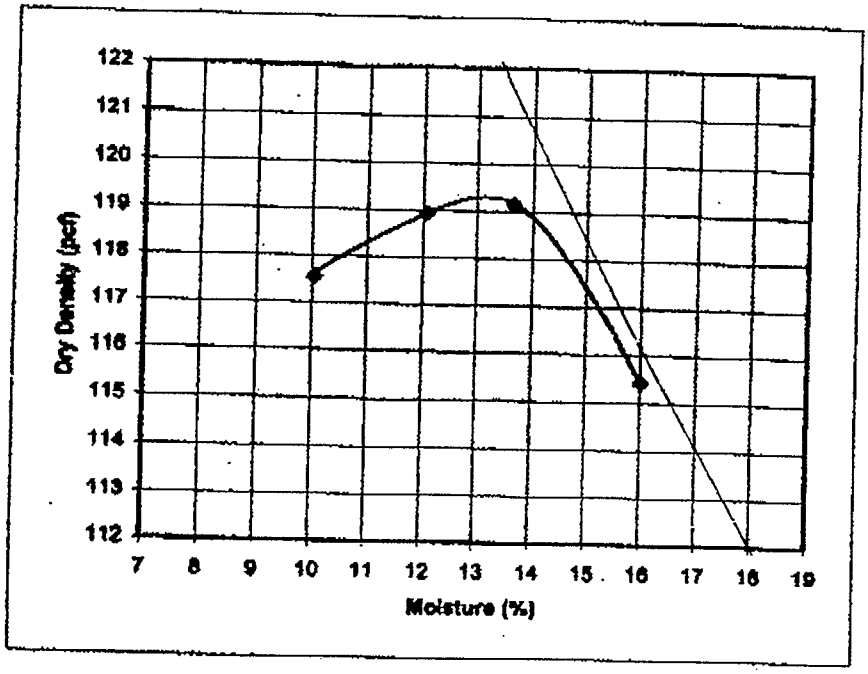
Received Time Mar.11. 10:58AM

amec

PROJECT:	FRUEHAUF WAREHOUSE	JOB NO:	2-119-000041
LOCATION:	7TH STREET AND BUCKEYE ROAD	WORK ORDER NO:	1
MATERIAL:	ABC	LAB NO:	1
SAMPLE SOURCE:	ON-SITE	SAMPLE DATE:	2/28/02

LABORATORY COMPACTION CHARACTERISTICS OF SOILS USING STANDARD EFFORTS (12,400ft-lb-ft/cu.ft) (ASTMD698A)
SIEVE ANALYSIS OF FINE AND COARSE AGGREGATES (ASTM C136/C117)
LIQUID LIMIT, PLASTIC LIMIT, AND PLASTICITY INDEX OF SOILS (ASTM D4318)
WET PREPARATION OF DISTURBED SOIL SAMPLES FOR TEST (AASHTO T146)

CURVE:	A
MAXIMUM DRY DENSITY (pcf):	119.2
OPTIMUM MOISTURE (%):	13.3



SIEVE SIZE	PERCENT PASSING	SPECS.**
6"	100	
4"	100	
3"	100	
2"	100	
1 1/2"	100	
1 1/4"	100	100
1"	99	
3/4"	93	
1/2"	78	
3/8"	72	
1/4"	65	
#4	61	35-65
#8	54	25-60
#10	52	
#16	44	
#30	29	10-40
#40	20	
#50	14	
#100	7	
#200	5.2	3-12
LL:	21	
PL:	17	
PI:	4	5 MAX
USCS:		

NOTE: THE ZERO AIR VOIDS CURVE REPRESENTS A SPECIFIC GRAVITY OF: 2.651 ASSUMED.

THIS IS A SUMMARIZED REPORT OF THE REFERENCED PROCEDURES AND DOES NOT INCLUDE ALL REPORTING REQUIREMENTS. ADDITIONAL DATA CAN BE PROVIDED AT CLIENT'S REQUEST.

6

Precision Analytical Laboratories, Inc.

A Division of Aerotech Laboratories, Inc.

March 07, 2002

Gregory L. Heuer
Keramida Environmental, Inc.
330 N. College Ave.
Indianapolis, Indiana 46202

RECEIVED
MAR 0 8 2002
KERAMIDA

RE: Wabash Nat'l-Phx 902 S 7th St/2961C

Dear Gregory L. Heuer:

Order No.: 02020922

Precision Analytical Laboratories, Inc. received 10 samples on 2/27/2002 for the analyses presented in the following report.

This report includes the following information:
- Case Narrative.
- Analytical Report: includes test results, report limit (Limit), any applicable data qualifier (Qual), units, dilution factor (DF), and date analyzed.
- QC Summary Report.

This communication is intended only for the individual or entity to whom it is directed. It may contain information that is privileged, confidential, or otherwise exempt from disclosure under applicable law. Dissemination, distribution, or copying of this communication by anyone other than the intended recipient, or a duly designated employee or agent of such recipient, is prohibited. If you have received this communication in error, please notify us immediately and destroy this message and all attachments thereto. If you have any questions regarding these test results, please do not hesitate to call.

Sincerely,

Tandy Nash

Tandy Nash

1725 W. 17th St. • Tempe, AZ 85281 • Toll Free 866 772-5227 • 480 967-1310 • Fax 480 967-1019
4455 S. Park Ave., Ste. 110 • Tucson, AZ 85714 • 520 807-3801 • Fax 520 807-3803 • www.palabs.com

Precision Analytical Laboratories, Inc.

A Division of Aerotech Laboratories, Inc.

Precision Analytical Laboratories, Inc. **Date:** *07-Mar-02*

CLIENT: Keramida Environmental, Inc.
Project: Wabash Nat'l-Phx 902 S 7th St/2961C
Lab Order: 02020922

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Tag Number	Collection Date	Date Received
02020922-01A	RO-1		2/27/2002 12:00:00 PM	2/27/2002
02020922-02A	RO-2		2/27/2002 12:15:00 PM	2/27/2002
02020922-03A	RO-3		2/27/2002 12:35:00 PM	2/27/2002
02020922-04A	EF-1		2/27/2002 1:05:00 PM	2/27/2002
02020922-05A	EF-2		2/27/2002 1:10:00 PM	2/27/2002
02020922-06A	NEW-1		2/27/2002 1:35:00 PM	2/27/2002
02020922-07A	SEW-1		2/27/2002 1:40:00 PM	2/27/2002
02020922-08A	WEW-1		2/27/2002 1:45:00 PM	2/27/2002
02020922-09A	EEW-1		2/27/2002 1:50:00 PM	2/27/2002
02020922-10A	RO-4		2/27/2002 4:00:00 PM	2/27/2002

1725 W. 17th St. • Tempe, AZ 85281 • Toll Free 866 772-5227 • 480 967-1310 • Fax 480 967-1019
4455 S. Park Ave., Ste. 110 • Tucson, AZ 85714 • 520 807-3801 • Fax 520 807-3803 • www.palabs.com

Precision Analytical Laboratories, Inc. **Date:** *07-Mar-02*

CLIENT: Keramida Environmental, Inc.
Project: Wabash Nat'l-Phx 902 S 7th St/2961C
Lab Order: 02020922

CASE NARRATIVE

Data Qualifiers:

Listed below are data qualifiers which may be used in your analytical report to explain any analytical or quality control issues. If one or more of the following data qualifiers is associated with your analytical or quality control data it will be noted in your report under the column header "QUAL". Any quality control deficiencies that cannot be adequately described by these qualifiers will be addressed in the analytical comments section of this case narrative.

B1 Target analyte detected in method blank at or above the method reporting limit.
D1 Sample required dilution due to matrix interference.
D2 Sample required dilution due to high concentration of target analyte.
D3 Sample dilution required due to insufficient sample.
D4 Minimum reporting level (MRL) adjusted to reflect sample amount received and analyzed.
E1 Concentration estimated. Analyte exceeded calibration range. Reanalysis not possible due to insufficient sample.
E2 Concentration estimated. Analyte exceeded calibration range. Reanalysis not performed due to sample matrix.
E3 Concentration estimated. Analyte exceeded calibration range. Reanalysis not performed due to holding time requirements.
E4 Concentration estimated. Analyte was detected below laboratory minimum reporting level (MRL).
E6 Concentration estimated. Internal standard recoveries did not meet method acceptance criteria.
E7 Concentration estimated. Internal standard recoveries did not meet laboratory acceptance criteria.
H1 Sample analysis performed past holding time. See case narrative.
H2 Initial analysis within holding time. Reanalysis for the required dilution was past holding time.
H3 Sample was received and analyzed past holding time.
H4 Sample was extracted past required extraction holding time, but analyzed within analysis holding time. See case narrative.
K1 The sample dilutions set-up for the BOD analysis did not meet the oxygen depletion criteria of at least 2 mg/L. The reported result is an estimated value.
K2 The sample dilutions set up for the BOD analysis failed to meet the criteria of a residual dissolved oxygen of at least 1 mg/L. The reported result is estimated.
L1 The associated blank spike recovery was above laboratory acceptance limits. See case narrative.
L2 The associated blank spike recovery was below laboratory acceptance limits. See case narrative.

1725 W. 17th St. • Tempe, AZ 85281 • Toll Free 866 772-5227 • 480 967-1310 • Fax 480 967-1019

CLIENT: Keramida Environmental, Inc.
Project: Wabash Nat'l-Phx 902 S 7th St/2961C
Lab Order: 02020922

CASE NARRATIVE

M1 Matrix spike recovery was high, the method control sample recovery was acceptable.
M2 Matrix spike recovery was low, the method control sample recovery was acceptable.
M3 The accuracy of the spike recovery value is reduced since the analyte concentration in the sample is disproportionate to spike level. The method control sample recovery was acceptable.
M4 The analysis of the spiked sample required a dilution such that the spike concentration was diluted below the reporting limit. The method control sample recovery was acceptable.
M5 Analyte concentration was determined by the method of standard addition (MSA).
N1 See case narrative.
Q1 Sample integrity was not maintained. See case narrative.
Q2 Sample received with head space.
Q3 Sample received with improper chemical preservation.
Q5 Sample received without chemical preservation, but preserved by the laboratory.
Q6 Sample was received above recommended temperature.
Q7 Sample inadequately dechlorinated.
Q8 Insufficient sample received to meet method QC requirements. QC requirements satisfy ADEQ policies 0154 and 0155.
Q10 Sample received in inappropriate sample container.
Q11 Sample is heterogeneous. Sample homogeneity could not be readily achieved using routine laboratory practices.
R2 RPD exceeded the laboratory control limit. See case narrative.
R3 Sample RPD between the primary and confirmatory analysis exceeded 40%. Per EPA Method 8000B, the higher value was reported.
R4 RPD exceeded the method control limit. Recovery met acceptance criteria.
R5 MS/MSD RPD exceeded the laboratory control limit. Recovery met acceptance criteria.
R9 Sample RPD exceeded the laboratory control limit.
S2 Surrogate recovery was above laboratory and method acceptance limits.
S4 Surrogate recovery was above laboratory and method acceptance limits. No target analytes were detected in the sample.
S6 Surrogate recovery was below laboratory and method acceptance limits. Reextraction and/or reanalysis confirms low recovery caused by matrix effect.
S7 Surrogate recovery was below laboratory and method acceptance limits. Unable to confirm matrix effect.
S9 The analysis of the sample required a dilution such that the surrogate concentration was diluted below the laboratory acceptance criteria. The method control sample recovery was acceptable.
S10 Surrogate recovery was above laboratory and method acceptance limits. See case narrative (N1).
T2 Cited ADHS licensed method does not contain this analyte as part of method

1725 W. 17th St. • Tempe, AZ 85281 • Toll Free 866 772-5227 • 480 967-1310 • Fax 480 967-1019
4455 S. Park Ave., Ste. 110 • Tucson, AZ 85714 • 520 807-3801 • Fax 520 807-3803 • www.palabs.com

compound list.

T4 Tentatively identified compound. Concentration is estimated and based on the closest internal standard.

V1 CCV recovery was above method acceptance limits. This target analyte was not detected in the sample.

V2 CCV recovery was above method acceptance limits. This target analyte was detected in the sample. The sample could not be reanalyzed due to insufficient sample.

V5 CCV recovery after a group of samples was above acceptance limits. This target analyte was not detected in the sample. Acceptable per EPA Method 8000B.

Samples were analyzed using methods outlined in references such as:

Standard Methods for the Examination of Water and Wastewater, 18th Edition, 1992, and 19th Edition, 1995.

Methods for Chemical Analysis of Water and Wastes, EPA-600/4-79-020, Revised March 1983.

Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, SW846, 3rd Edition.

40 CFR, Part 136, Revised 1995. Appendix A to Part 136 - Methods for Organic Chemical Analysis of Municipal and Industrial Wastewater.

NIOSH Manual of Analytical Methods, Fourth Edition, 1994.

Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air, Second Edition, 1999.

Precision Analytical Laboratories, Inc (PAL) holds the following certifications:
Arizona (certification no. AZ0610).
PAL - Tucson laboratory, Arizona certification number: AZ0609.

PAL participates in the AIHA Proficiency Analytical Testing (PAT) program for metals, solvents, and formaldehyde.

Analytical Comments:

All method blanks and laboratory control spikes met EPA method and/or laboratory quality control objectives for the analyses included in this report.

1725 W. 17th St. • Tempe, AZ 85281 • Toll Free 866 772-5227 • 480 967-1310 • Fax 480 967-1019
4455 S. Park Ave., Ste. 110 • Tucson, AZ 85714 • 520 807-3801 • Fax 520 807-3803 • www.palabs.com

Precision Analytical Laboratories, Inc.

A Division of Aerotech Laboratories, Inc.

Precision Analytical Laboratories, Inc. **Date:** *07-Mar-02*

CLIENT:	Keramida Environmental, Inc.	**Client Sample ID:**	RO-1
Lab Order:	02020922	**Tag Number:**	
Project:	Wabash Nat'l-Phx 902 S 7th St/2961C	**Collection Date:**	2/27/2002 12:00:00 PM
Lab ID:	02020922-01A	**Matrix:**	SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
ICP METALS		**SW6010B**				Analyst: **MK**
Lead	120	5.0		mg/Kg	1	2/28/2002

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

1725 W. 17th St. • Tempe, AZ 85281 • Toll Free 866 772-5227 • 480 967-1310 • Fax 480 967-1019

Precision Analytical Laboratories, Inc.

A Division of Aerotech Laboratories, Inc.

Precision Analytical Laboratories, Inc.

Date: *07-Mar-02*

CLIENT:	Keramida Environmental, Inc.	**Client Sample ID:**	RO-2
Lab Order:	02020922	**Tag Number:**	
Project:	Wabash Nat'l-Phx 902 S 7th St/2961C	**Collection Date:**	2/27/2002 12:15:00 PM
Lab ID:	02020922-02A	**Matrix:**	SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
ICP METALS		**SW6010B**				Analyst: **MK**
Lead	57	5.0		mg/Kg	1	2/28/2002

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

1725 W. 17th St. • Tempe, AZ 85281 • Toll Free 866 772-5227 • 480 967-1310 • Fax 480 967-1019
4455 S. Park Ave., Ste. 110 • Tucson, AZ 85714 • 520 807-3801 • Fax 520 807-3803 • www.palabs.com

Precision Analytical Laboratories, Inc.

A Division of Aerotech Laboratories, Inc.

Precision Analytical Laboratories, Inc.

Date: *07-Mar-02*

CLIENT:	Keramida Environmental, Inc.	**Client Sample ID:**	RO-3
Lab Order:	02020922	**Tag Number:**	
Project:	Wabash Nat'l-Phx 902 S 7th St/2961C	**Collection Date:**	2/27/2002 12:35:00 PM
Lab ID:	02020922-03A	**Matrix:**	SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
ICP METALS		**SW6010B**				Analyst: **MK**
Lead	31	5.0		mg/Kg	1	2/28/2002

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

1725 W. 17th St. • Tempe, AZ 85281 • Toll Free 866 772-5227 • 480 967-1310 • Fax 480 967-1019
4455 S. Park Ave., Ste. 110 • Tucson, AZ 85714 • 520 807-3801 • Fax 520 807-3803 • www.palabs.com

Precision Analytical Laboratories, Inc. **Date:** *07-Mar-02*

CLIENT:	Keramida Environmental, Inc.	**Client Sample ID:**	EF-1
Lab Order:	02020922	**Tag Number:**	
Project:	Wabash Nat'l-Phx 902 S 7th St/2961C	**Collection Date:**	2/27/2002 1:05:00 PM
Lab ID:	02020922-04A	**Matrix:**	SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
ICP METALS		**SW6010B**				Analyst: **MK**
Lead	46	5.0		mg/Kg	1	2/28/2002

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range

1725 W. 17th St. • Tempe, AZ 85281 • Toll Free 866 772-5227 • 480 967-1310 • Fax 480 967-1019

Precision Analytical Laboratories, Inc.

A Division of Aerotech Laboratories, Inc.

Precision Analytical Laboratories, Inc.

Date: *07-Mar-02*

CLIENT:	Keramida Environmental, Inc.	**Client Sample ID:**	EF-2
Lab Order:	02020922	**Tag Number:**	
Project:	Wabash Nat'l-Phx 902 S 7th St/2961C	**Collection Date:**	2/27/2002 1:10:00 PM
Lab ID:	02020922-05A	**Matrix:**	SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
ICP METALS		**SW6010B**				Analyst: **MK**
Lead	< 5.0	5.0		mg/Kg	1	2/28/2002

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

1725 W. 17th St. • Tempe, AZ 85281 • Toll Free 866 772-5227 • 480 967-1310 • Fax 480 967-1019
4455 S. Park Ave., Ste. 110 • Tucson, AZ 85714 • 520 807-3801 • Fax 520 807-3803

Precision Analytical Laboratories, Inc.

Date: *07-Mar-02*

CLIENT:	Keramida Environmental, Inc.	**Client Sample ID:**	NEW-1
Lab Order:	02020922	**Tag Number:**	
Project:	Wabash Nat'l-Phx 902 S 7th St/2961C	**Collection Date:**	2/27/2002 1:35:00 PM
Lab ID:	02020922-06A	**Matrix:**	SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
ICP METALS		**SW6010B**				Analyst: **MK**
Lead	16	5.0		mg/Kg	1	2/28/2002

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range

1725 W. 17th St. • Tempe, AZ 85281 • Toll Free 866 772-5227 • 480 967-1310 • Fax 480 967-1019
4455 S. Park Ave., Ste. 110 • Tucson, AZ 85714 • 520 807-3801 • Fax 520 807-3803 • www.palabs.com

Precision Analytical Laboratories, Inc. **Date:** *07-Mar-02*

CLIENT:	Keramida Environmental, Inc.	**Client Sample ID:**	SEW-1
Lab Order:	02020922	**Tag Number:**	
Project:	Wabash Nat'l-Phx 902 S 7th St/2961C	**Collection Date:**	2/27/2002 1:40:00 PM
Lab ID:	02020922-07A	**Matrix:**	SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
ICP METALS		**SW6010B**				Analyst: **MK**
Lead	7.8	5.0		mg/Kg	1	2/28/2002

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range

1725 W. 17th St. • Tempe, AZ 85281 • Toll Free 866 772-5227 • 480 967-1310 • Fax 480 967-1019
4455 S. Park Ave., Ste. 110 • Tucson, AZ 85714 • 520 807-3801 • Fax 520 807-3803 • www.palabs.com

Precision Analytical Laboratories, Inc.

A Division of Aerotech Laboratories, Inc.

Precision Analytical Laboratories, Inc.

Date: *07-Mar-02*

CLIENT:	Keramida Environmental, Inc.	**Client Sample ID:**	WEW-1
Lab Order:	02020922	**Tag Number:**	
Project:	Wabash Nat'l-Phx 902 S 7th St/2961C	**Collection Date:**	2/27/2002 1:45:00 PM
Lab ID:	02020922-08A	**Matrix:**	SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
ICP METALS		**SW6010B**				Analyst: **MK**
Lead	< 5.0	5.0		mg/Kg	1	2/28/2002

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

1725 W. 17th St. • Tempe, AZ 85281 • Toll Free 866 772-5227 • 480 967-1310 • Fax 480 967-1019
4455 S. Park Ave., Ste. 110 • Tucson, AZ 85714 • 520 807-3801 • Fax 520 807-3803 • www.palabs.com

Precision Analytical Laboratories, Inc.

A Division of Aerotech Laboratories, Inc.

Precision Analytical Laboratories, Inc. Date: *07-Mar-02*

CLIENT:	Keramida Environmental, Inc.	**Client Sample ID:**	EEW-1
Lab Order:	02020922	**Tag Number:**	
Project:	Wabash Nat'l-Phx 902 S 7th St/2961C	**Collection Date:**	2/27/2002 1:50:00 PM
Lab ID:	02020922-09A	**Matrix:**	SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
ICP METALS		**SW6010B**				Analyst: MK
Lead	< 5.0	5.0		mg/Kg	1	2/28/2002

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

1725 W. 17th St. • Tempe, AZ 85281 • Toll Free 866 772-5227 • 480 967-1310 • Fax 480 967-1019
4455 S. Park Ave., Ste. 110 • Tucson, AZ 85714 • 520 807-3801 • Fax 520 807-3803 • www.palabs.com

Precision Analytical Laboratories, Inc.

A Division of Aerotech Laboratories, Inc.

Precision Analytical Laboratories, Inc. **Date:** *07-Mar-02*

CLIENT:	Keramida Environmental, Inc.	**Client Sample ID:**	RO-4
Lab Order:	02020922	**Tag Number:**	
Project:	Wabash Nat'l-Phx 902 S 7th St/2961C	**Collection Date:**	2/27/2002 4:00:00 PM
Lab ID:	02020922-10A	**Matrix:**	SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
ICP METALS		**SW6010B**				Analyst: **MK**
Lead	65	5.0		mg/Kg	1	2/28/2002

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

1725 W. 17th St. • Tempe, AZ 85281 • Toll Free 866 772-5227 • 480 967-1310 • Fax 480 967-1019
4455 S. Park Ave., Ste. 110 • Tucson, AZ 85714 • 520 807-3801 • Fax 520 807-3803 • www.palabs.com

Precision Analytical Laboratories, Inc.

Date: *07-Mar-02*

CLIENT: Keramida Environmental, Inc.
Work Order: 02020922
Project: Wabash Nat'l-Phx 902 S 7th St/2961C

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010B_S

Sample ID **MB-7424** SampType: **MBLK** TestCode: **6010B_S** Units: **mg/Kg** Prep Date: **2/27/2002** Run ID: **ICP001_020228A**
Client ID: **ZZZZZ** Batch ID: **7424** TestNo: **sw6010B** Analysis Date: **2/28/2002** SeqNo: **216215**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	< 5.0	5.0	0	0	0	0	0	0	0		

Sample ID **LCS-7424** SampType: **LCS** TestCode: **6010B_S** Units: **mg/Kg** Prep Date: **2/27/2002** Run ID: **ICP001_020228A**
Client ID: **ZZZZZ** Batch ID: **7424** TestNo: **sw6010B** Analysis Date: **2/28/2002** SeqNo: **216216**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	43.45	5.0	50	0	86.9	80	120	0	0		

Sample ID **02020922-01A MS** SampType: **MS** TestCode: **6010B_S** Units: **mg/Kg** Prep Date: **2/27/2002** Run ID: **ICP001_020228A**
Client ID: **RO-1** Batch ID: **7424** TestNo: **sw6010B** Analysis Date: **2/28/2002** SeqNo: **216218**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	254.5	5.0	50	123	263	75	125	0	0		M1

Sample ID **02020922-01A MSD** SampType: **MSD** TestCode: **6010B_S** Units: **mg/Kg** Prep Date: **2/27/2002** Run ID: **ICP001_020228A**
Client ID: **RO-1** Batch ID: **7424** TestNo: **sw6010B** Analysis Date: **2/28/2002** SeqNo: **216219**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	153.5	5.0	50	123	61	75	125	254.5	49.5	20	M2,R9

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

Precision Analytical Laboratories, Inc.

[✓] Main Lab- 1725 West 17th Street, Tempe, AZ 85281 (480) 967-1310 FAX (480) 967-1019
[ ] North Phoenix- 2020 West Lone Cactus Drive, Phoenix, AZ 85027 (623) 780-4800 FAX (623) 780-7695
[ ] Tucson- 4455 South Park Avenue, Ste.110, Tucson, AZ 85714 (520) 807-3801 FAX (520) 807-3803
www.palabs.com or call toll-free 1-866-7PALABS (1-866-772-5227)

LAB ID NUMBER: 0-202-0922

Page 1 of 1

Client: Keramida Environmental, Inc.	E-Mail Address: gheuer@keramida.com
Address: 330 N. College Avenue	Fax Results: (Y) N
City, State, Zip: Indianapolis IN 46202	E-Mail Results: Y (N)
Contact: Gregory L. Heuer	**TAT Request**
Phone: (317)370-4344(cell#) (317)685-6600	(24 Hours) 48 Hours
Fax: (317)685-6610 ← office	72 Hours 5 Day
Sampler: Gregory L. Heuer	Laboratory Approval Required for RUSH Analyses
P.O. Number: 2961C	Surcharges May Apply
	Standard 10 Day

Sample Information

Lab #	Sample Type	Sample Identification	Date	Time	Qty	Total Lead	*TCLP Lead-possible	← see instructions
01	1	RO-1	2/27/02	12:00pm	2	✓	✓	
02	2	RO-2	2/27/02	12:15pm	2	✓	✓	
03	3	RO-3	2/27/02	12:35pm	2	✓	✓	
04	4	EF-1	2/27/02	1:05pm	1	✓		
05	5	EF-2	2/27/02	1:10pm	1	✓		
06	6	NEW-1	2/27/02	1:35pm	1	✓		
07	7	SEW-1	2/27/02	1:40pm	1	✓		
08	8	WEW-1	2/27/02	1:45pm	1	✓		
09	9	EEW-1	2/27/02	1:50pm	1	✓		
10	10	RO-4	2/27/02	11:00	2	✓	✓	

Project Name: Wabash National - Phoenix
902 S. 7th Street
Project Number: 2961C

Instructions/Special Requirements:
24 hr. turn!
*If total lead is above 90 ppm, then run for TCLP lead.
*Give me a call before you run the TCLP lead (317)370-4344

Date	Time	Relinquished By:	Company	Relinquished By:	Company
2/27/02	3:10pm	Gregory L. Heuer	Keramida	R. Simmons	PAL
2/27/02	11:00	Gregory L. Heuer (sample 10)	Keramida	R. Simmons (sample 10)	PAL

7

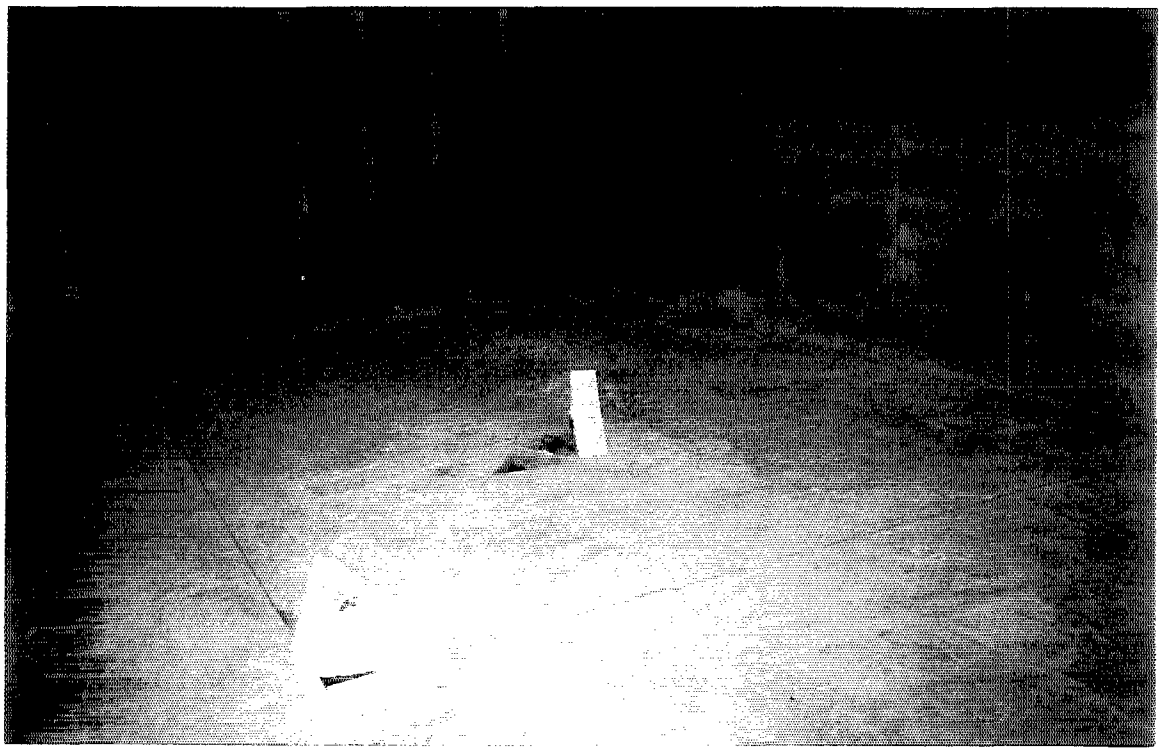


Photo 1. View of cut concrete.

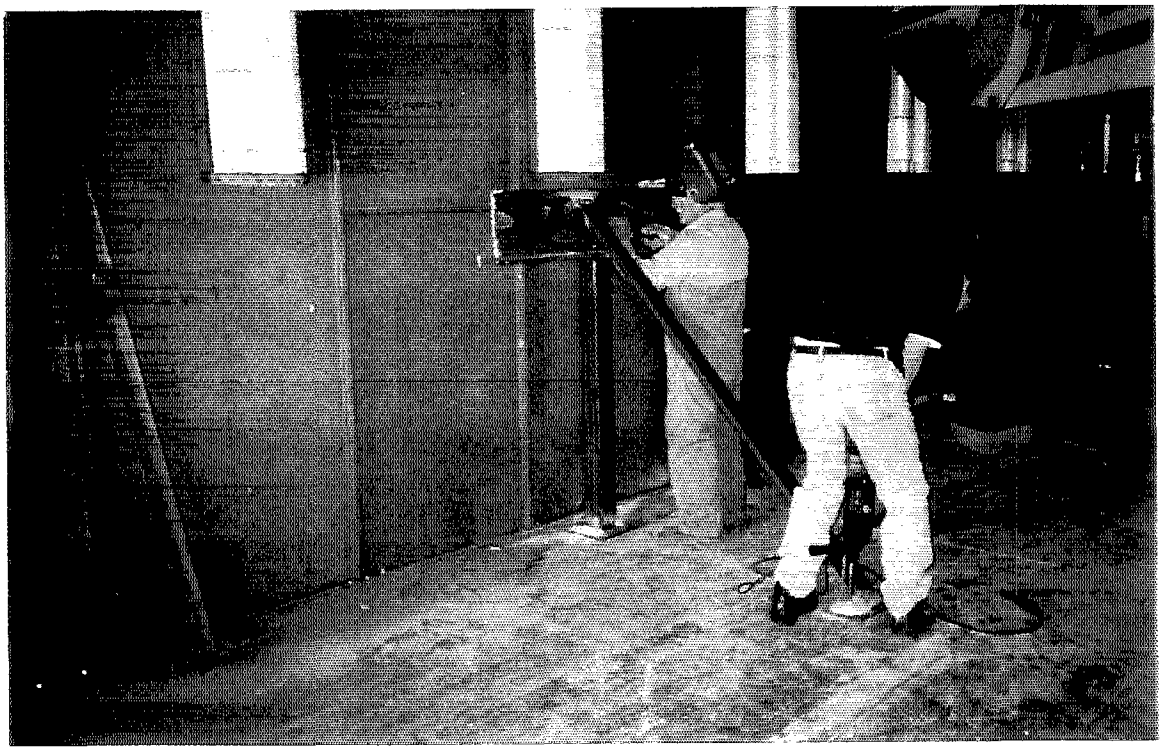


Photo 2. Placing shoring on east wall of paint spray booth.

Photo 3. Anchoring of shoring into undisturbed concrete for support.

Photo 4. Complete shoring of east wall of paint spray booth.

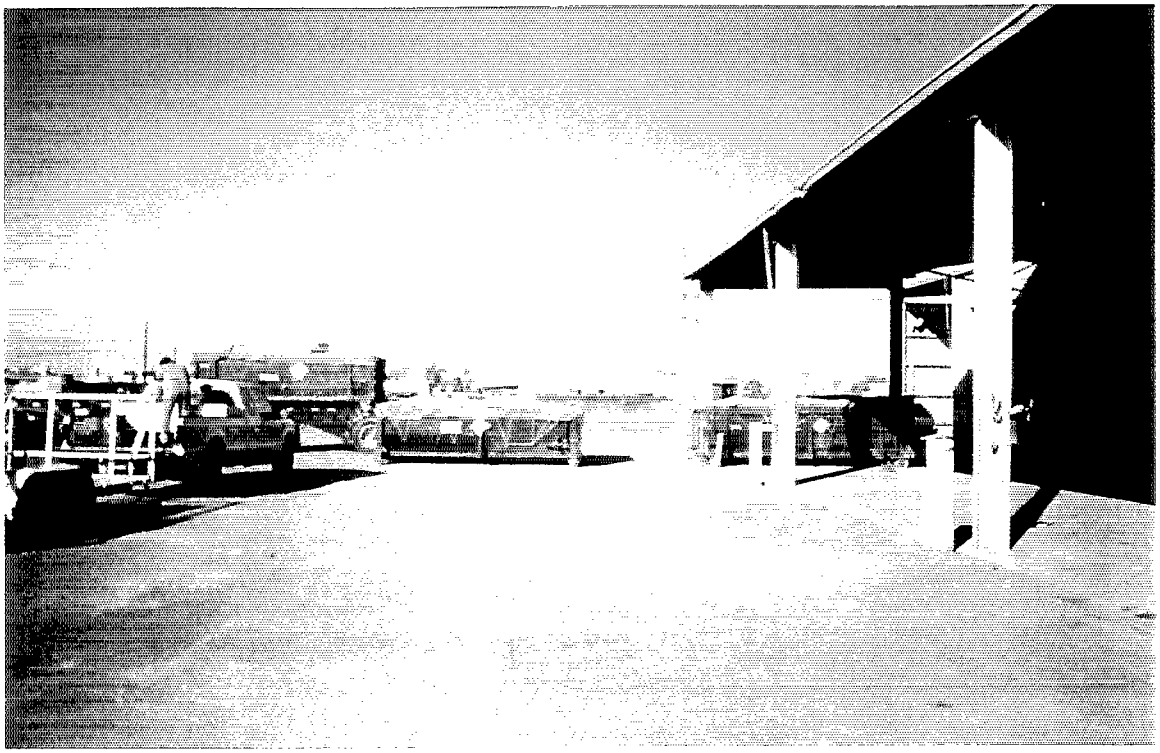


Photo 5. Drop off of 20-ton roll-off bins.

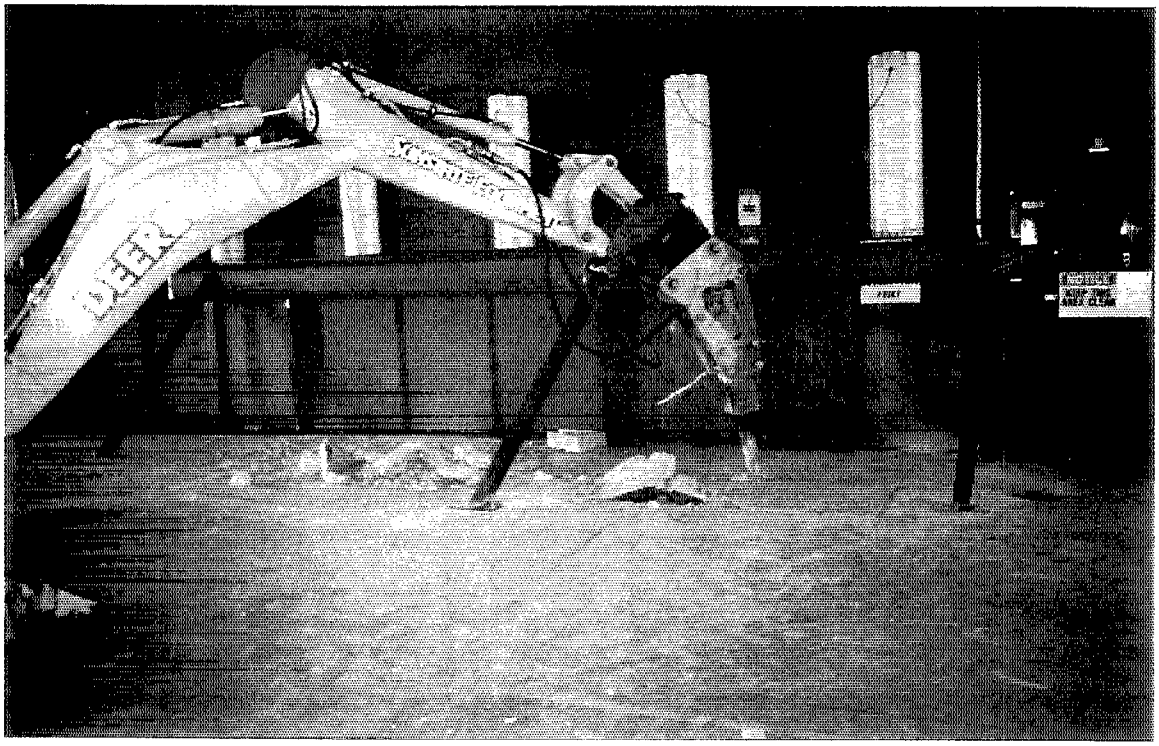


Photo 6. Hammering of cut concrete on east side of wall to break into small pieces for disposal.

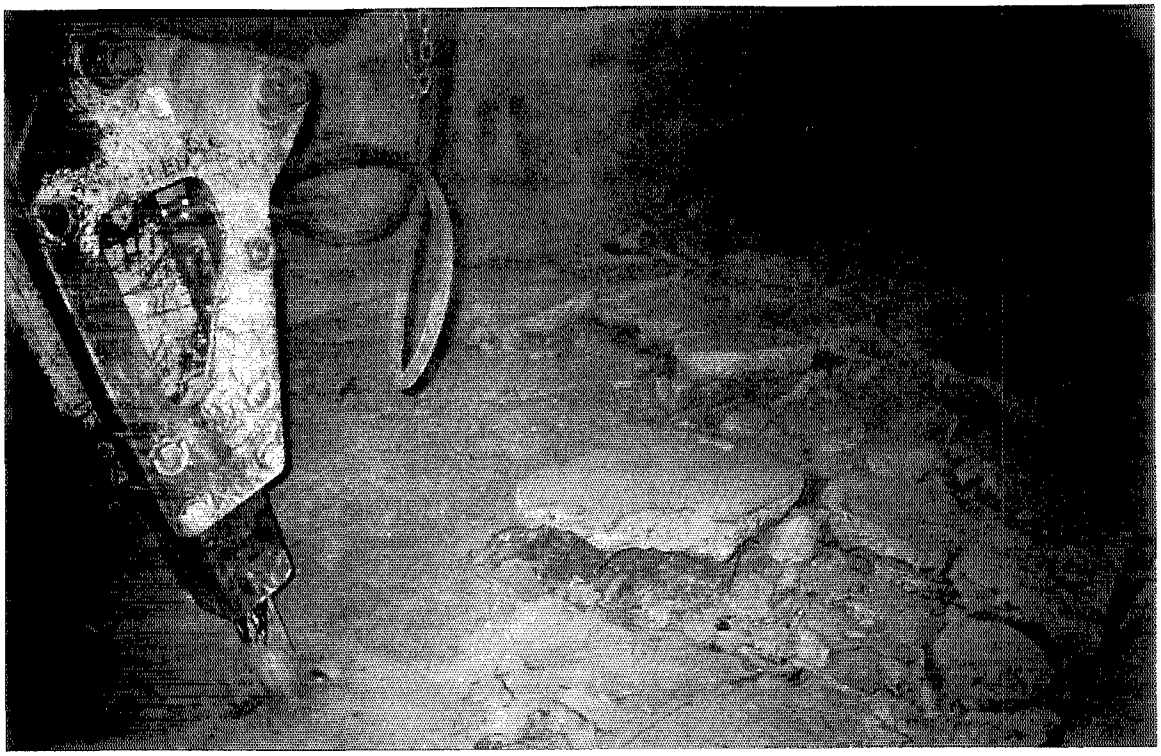


Photo 7. Hammering of cut concrete on west side of wall to break into small pieces for disposal.

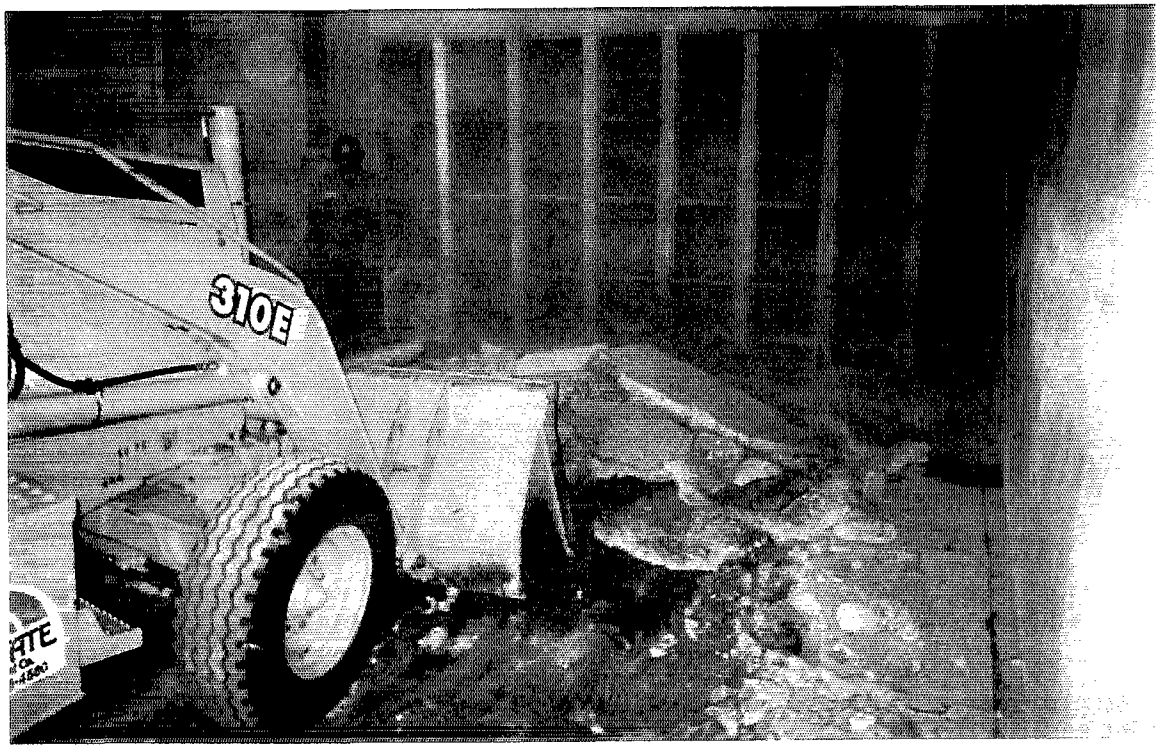


Photo 8. Loading of broken concrete to be placed into roll-off bin.

Photo 9. Loading of broken concrete into roll-off bin.

Photo 10. Excavation of soil on east side of paint spray booth wall.

Photo 11. Excavation of concrete encased piping in excavation in paint spray booth.

Photo 12. View of excavated piping running through excavation from north to south.

Photo 13. View of 4" floor drain on west side of east wall showing discolored soil.

Photo 14. View of 4" floor drain on west side of east wall showing discolored soil.

Photo 15. Excavation of 4" floor drain on west side of east wall.

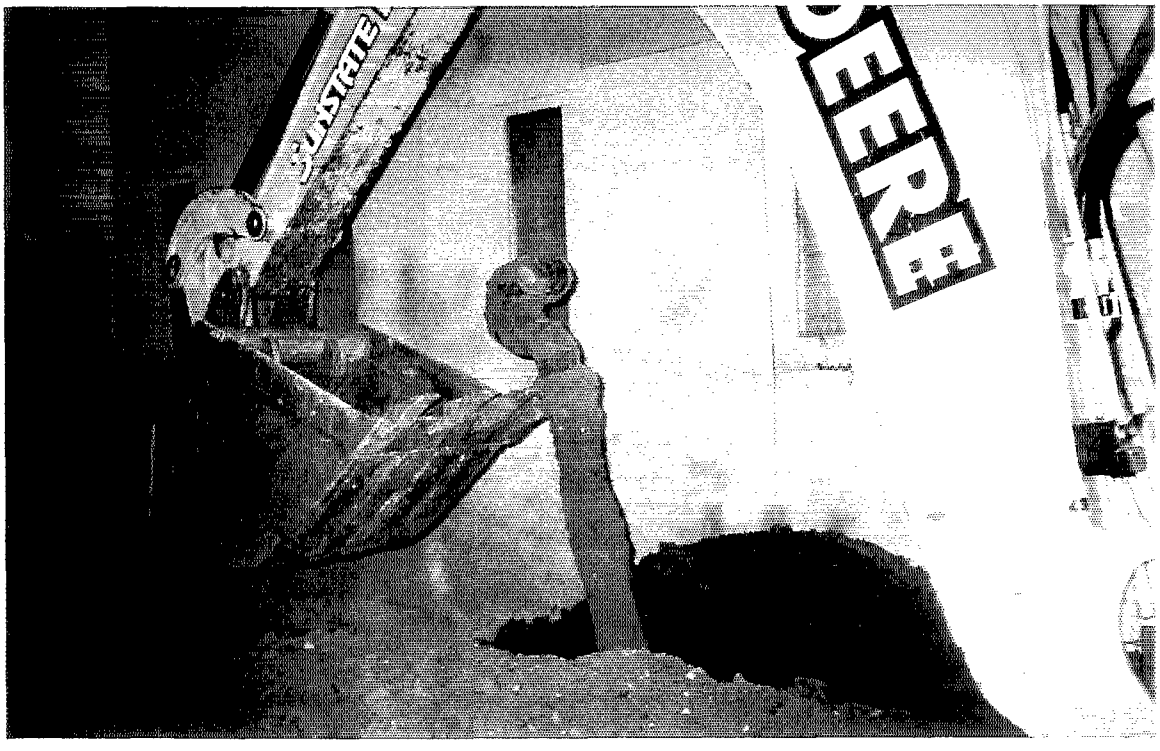


Photo 16. Excavation of 4" floor drain piping running from drain through excavation.

Photo 17. Loading of excavated soil on east side of wall to be placed into roll-off bin.

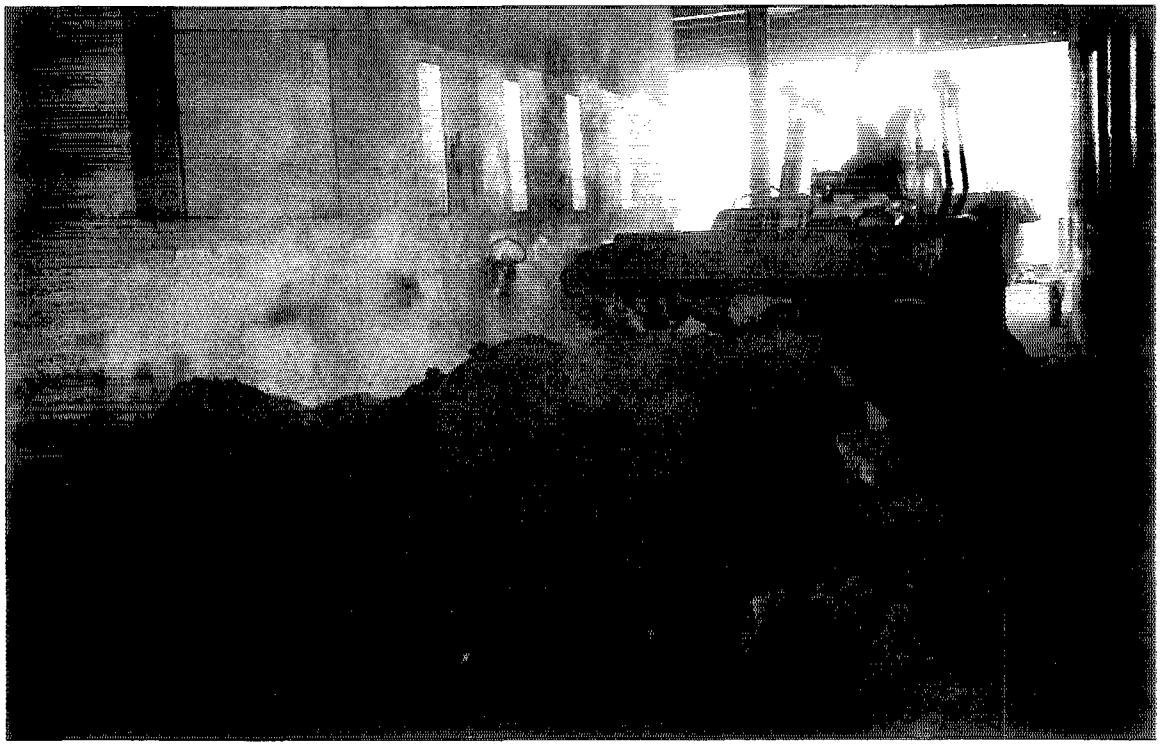


Photo 18. Loading of excavated soil on west side of wall to be placed into roll-off bin.

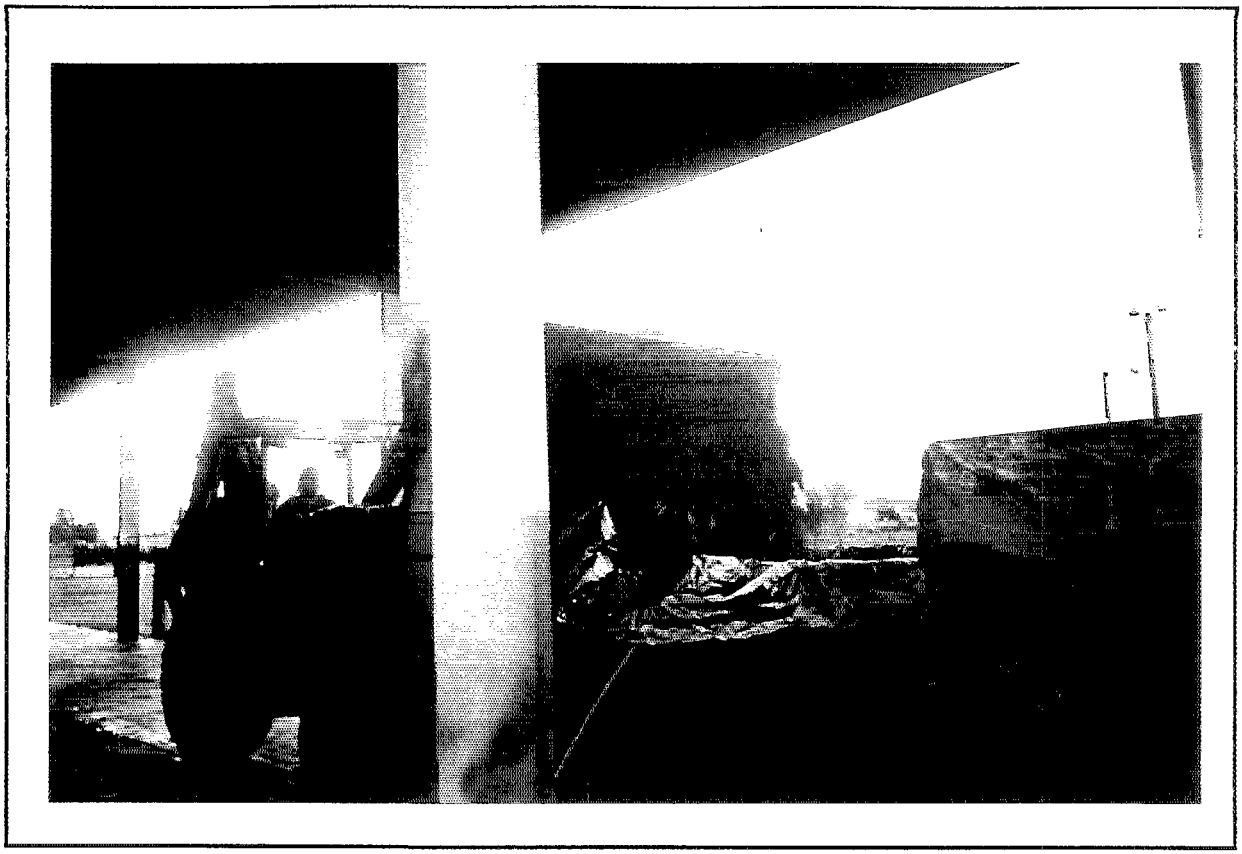


Photo 19. Loading of excavated soil into roll-off bin for disposal.

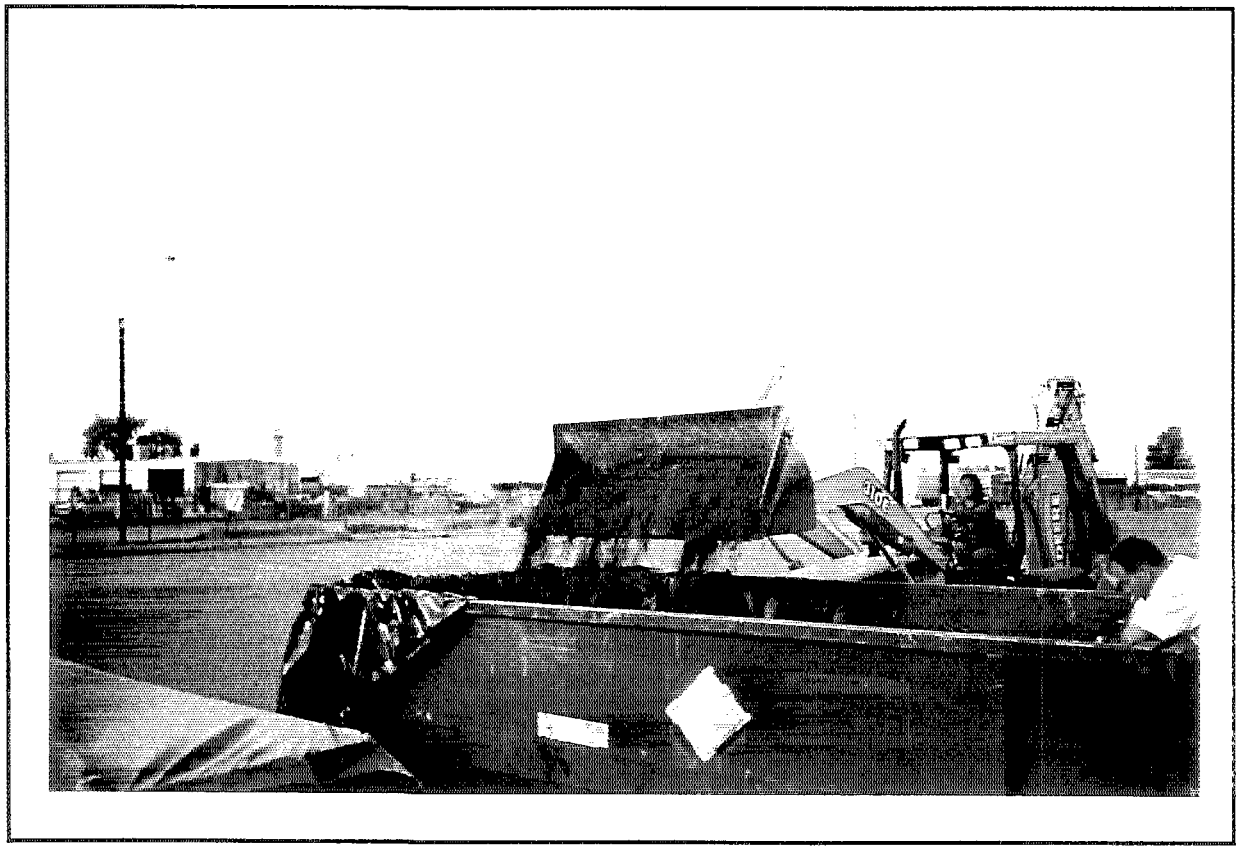


Photo 20. Loading of excavated soil into roll-off bin for disposal.

Photo 21. Excavated soil in roll-off bin awaiting disposal.

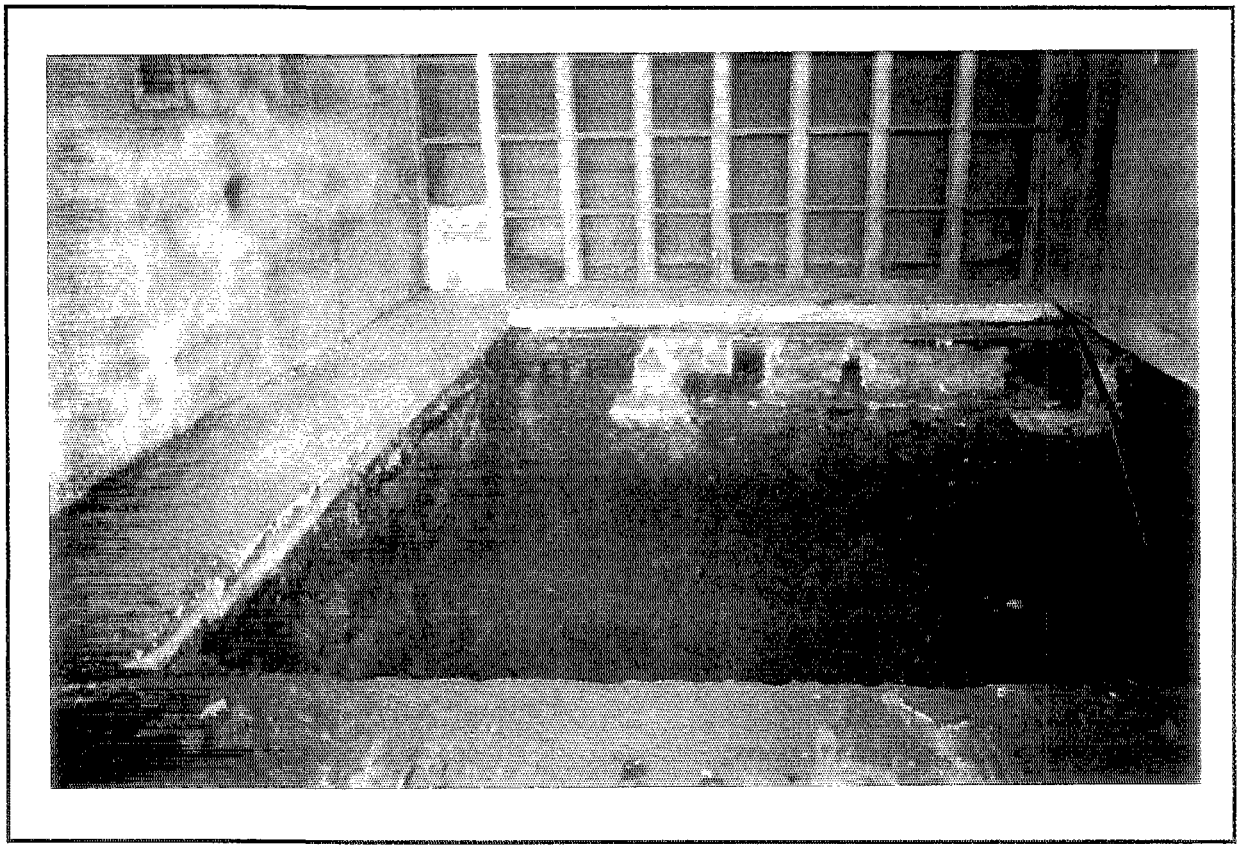


Photo 22. View of completed excavation inside paint spray booth.

Photo 23. View of completed excavation from east side of paint spray booth.

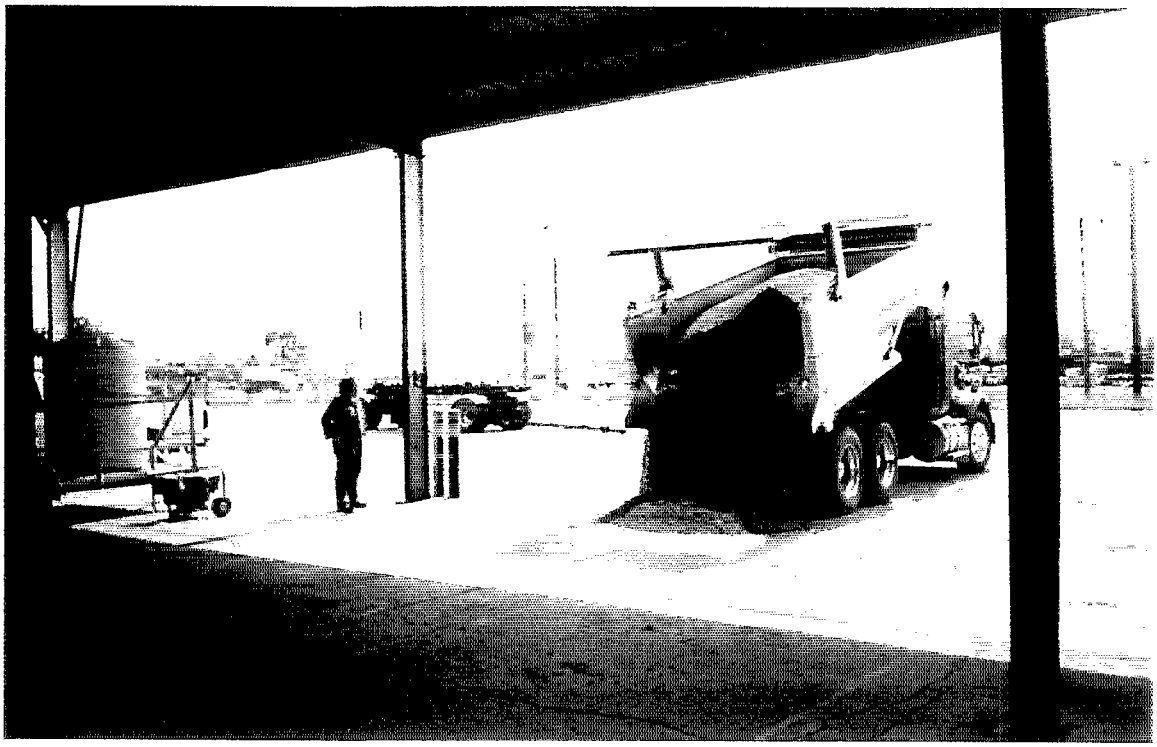


Photo 24. Drop off of engineered backfill material for filling of excavation.

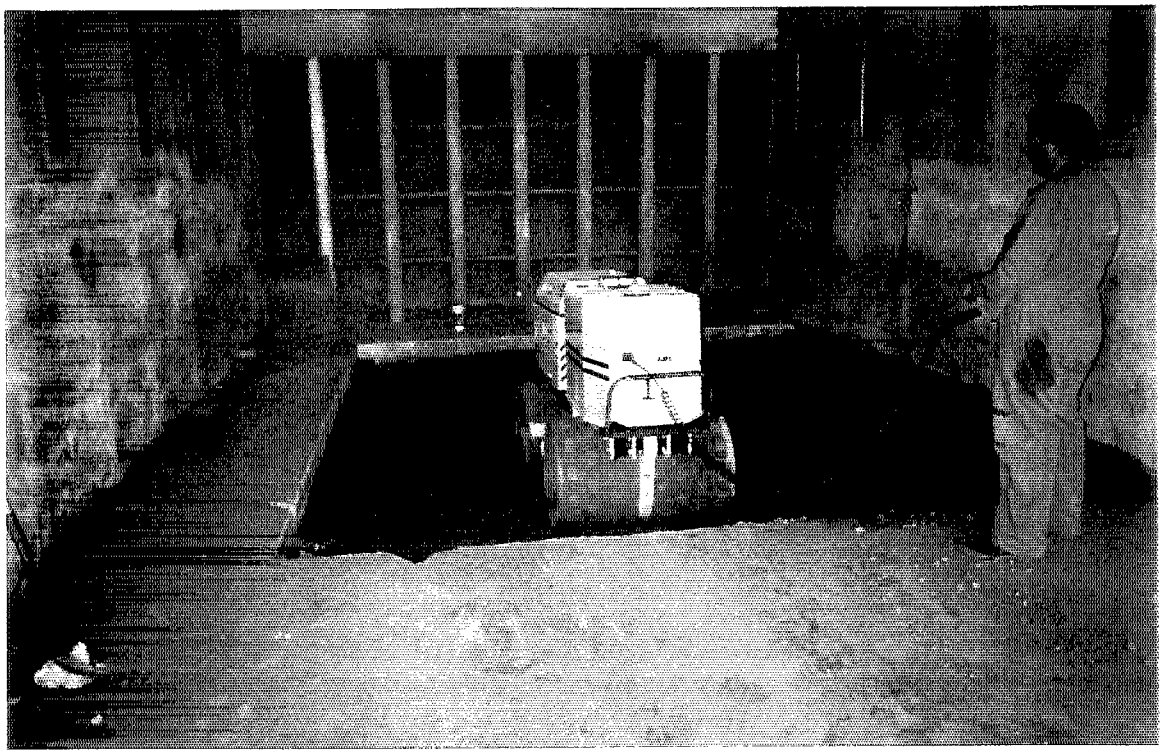


Photo 25. Compaction of backfill in excavation on west side of wall with "sheep's foot" compactor.

Photo 26. Compaction of backfill in excavation on east side of wall with "jumping jack" compactor.

Photo 27. Drilling of holes into existing concrete for doweling of reinforcing rebar.

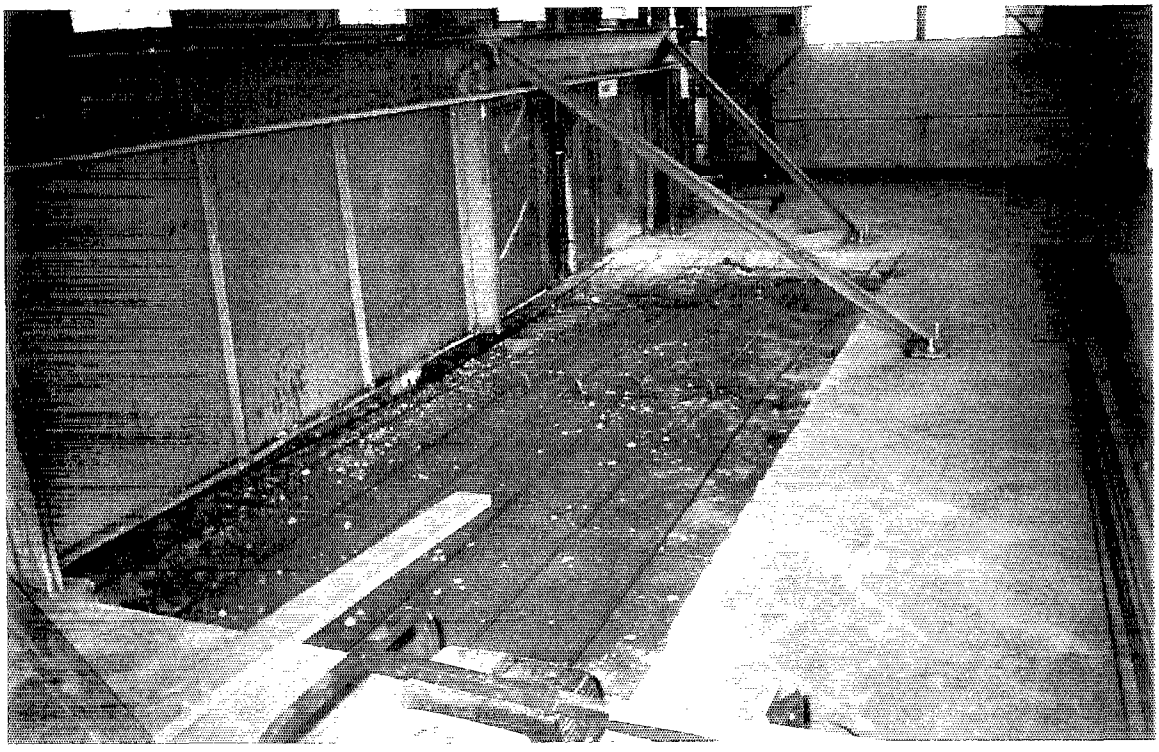


Photo 28. View of rebar placed in eastern portion of excavation for reinforcement of concrete.

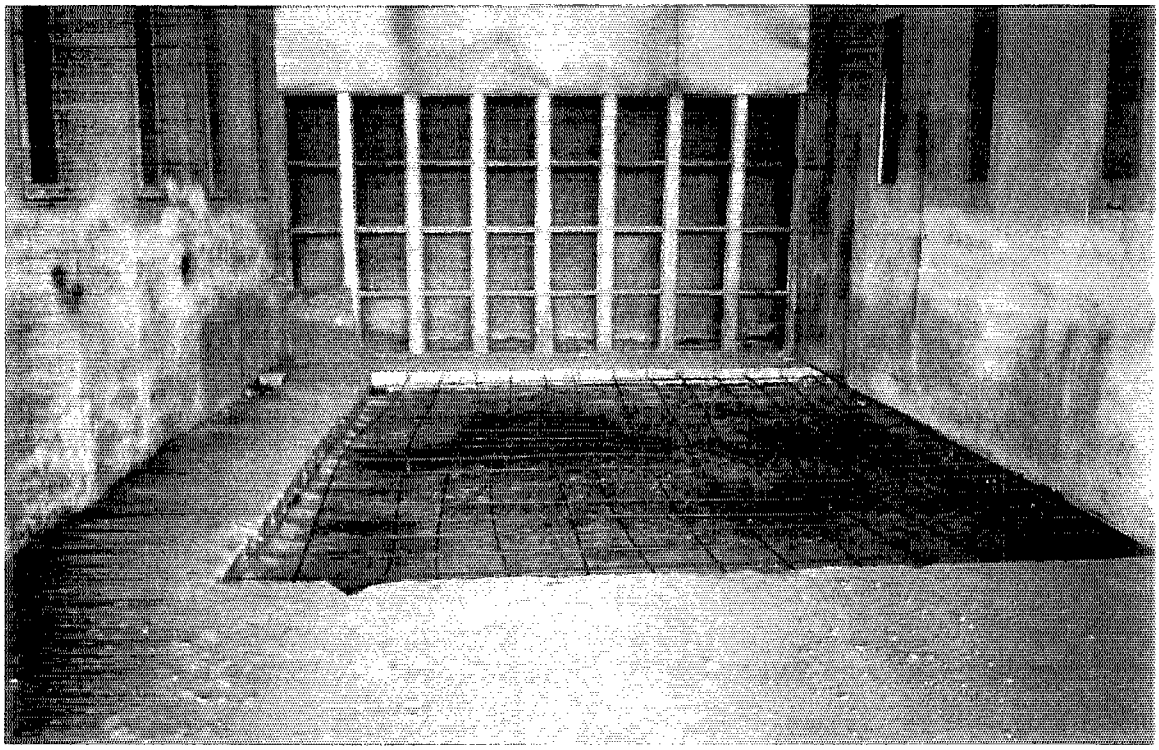


Photo 29. View of rebar placed in western portion of excavation for reinforcement of concrete.

Photo 30. View of newly finished concrete over former excavation area on east side of paint booth.

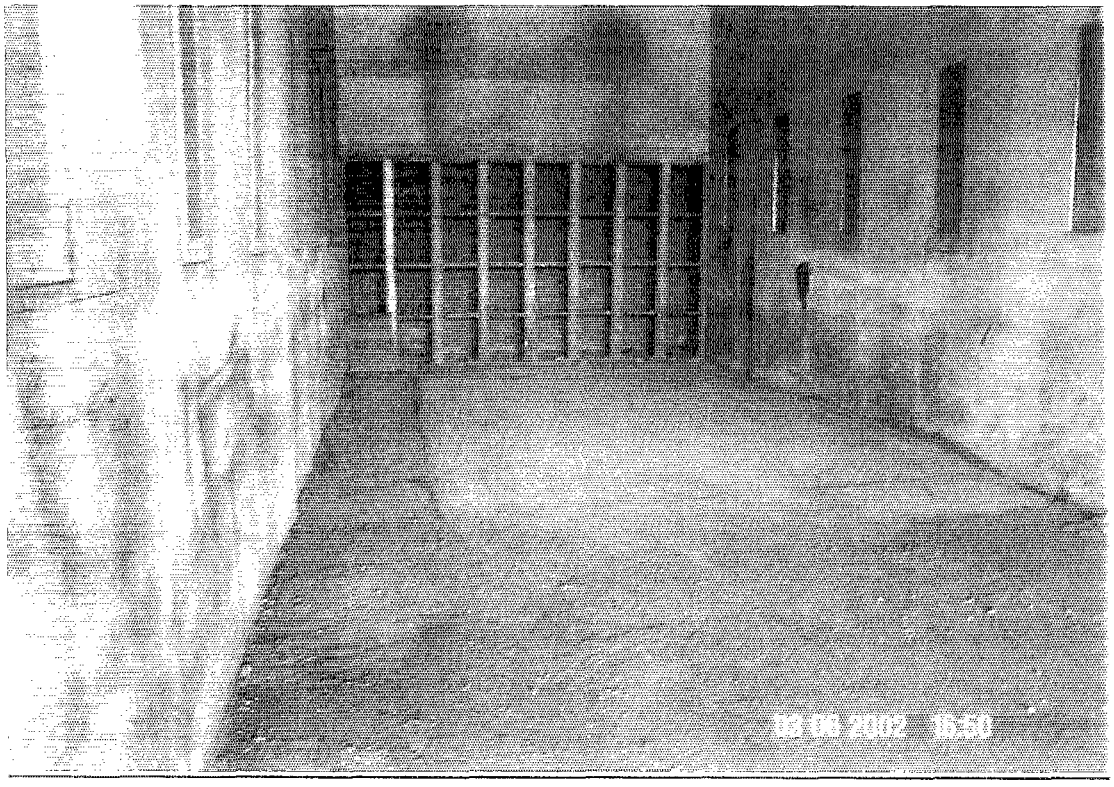


Photo 31. View of newly finished concrete over former excavation area from inside of paint booth.

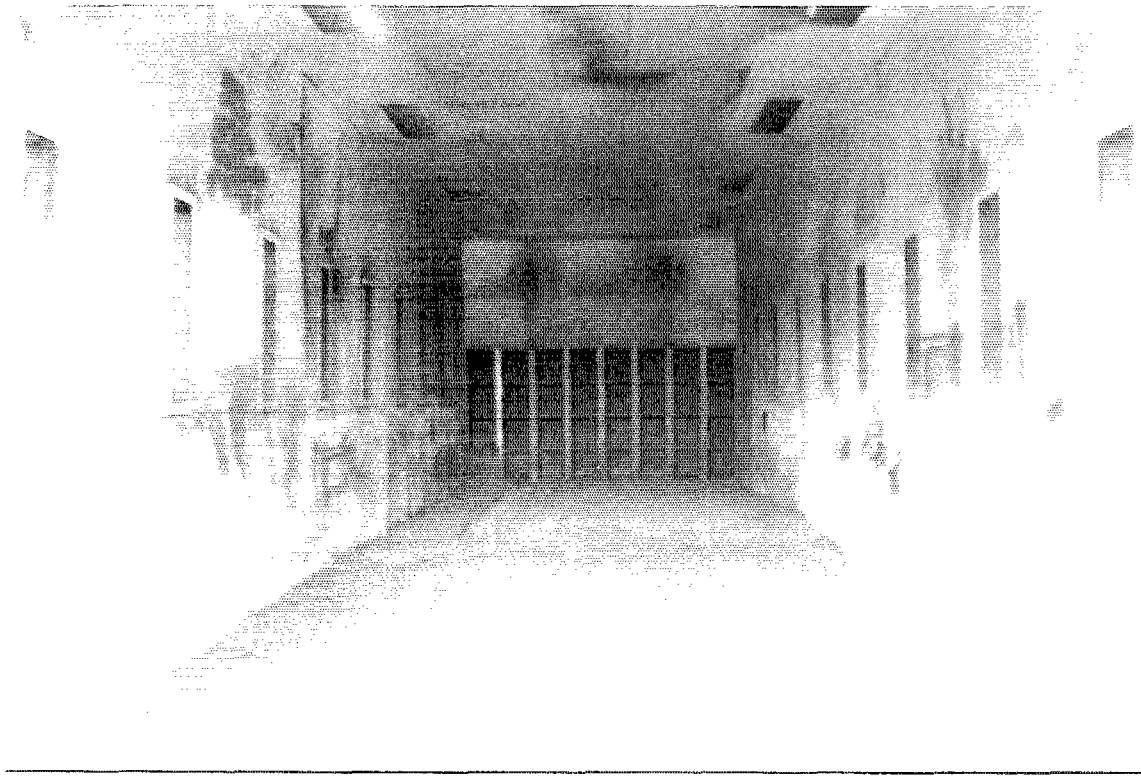


Photo 32. View of inside of paint spray booth after completion of remediation activities.

PHOENIX - Phase II Keramida Env. 6/14/01

KERAMIDA
ENVIRONMENTAL, INC.
ENGINEERING • CONSULTING • REMEDIATION
AIR • LAND • WATER • WASTE

330 North College Avenue
Indianapolis, Indiana 46202
(317) 685-6600 • Fax (317) 685-6610
1-800-508-8034
email: keramida@keramida.com
web page: www.keramida.com

PHASE II ENVIRONMENTAL SITE INVESTIGATION
FORMER FRUEHAUF TRAILER FACILITY
902 SOUTH 7th STREET
PHOENIX, ARIZONA
KERAMIDA PROJECT NO. 2961A

Submitted To:

WABASH NATIONAL LLC
Mr. Rick Bossingham
1000 Sagamore Parkway South
P.O. Box 6129
Lafayette, Indiana 47903

Submitted By:

KERAMIDA ENVIRONMENTAL, INC.
330 North College Avenue
Indianapolis, Indiana 46202
317/685-6600

Rita Rae Boje
Senior Project Manager

Reviewed By:

Andrew A. Gremos, L.P.G., C.H.M.M.
Vice President, Investigation and Remediation Services

June 14, 2001

PHASE II ENVIRONMENTAL SITE INVESTIGATION
FORMER FRUEHAUF TRAILER FACILITY
902 SOUTH 7th STREET
PHOENIX, ARIZONA
KERAMIDA PROJECT NO. 2961A

Submitted To:

WABASH NATIONAL LLC
Mr. Rick Bossingham
1000 Sagamore Parkway South
P.O. Box 6129
Lafayette, Indiana 47903

Submitted By:

KERAMIDA ENVIRONMENTAL, INC.
330 North College Avenue
Indianapolis, Indiana 46202
317/685-6600

June 14, 2001

EXECUTIVE SUMMARY

KERAMIDA Environmental, Inc. (KERAMIDA) completed a Phase II Environmental Site Investigation (Phase II) of the Former Fruehauf Facility located at 902 South 7th Street in Phoenix, Maricopa County, Arizona (Site) for Mr. Rick Bossingham, Wabash National LLC (Client), in May of 2001. The purpose of the project was to investigate areas of environmental concern identified during a Phase I Environmental Site Assessment (Phase I) completed by KERAMIDA in August of 1999.

The Site consists of a single-story building and parking lot area along South 7th Street. The following areas of focus were identified during the Phase I Investigation: possible soil and groundwater contamination due to operation as a trailer sales and service business at the Site and possible groundwater contamination due to off-Site source(s). Specific areas of concern include: a waste oil underground storage tank (UST) that had been removed from a location near the former truck wash; an existing oil/water separator near the northwest corner of the building; the former and existing truck wash areas and an associated dry well; the paint spray booth; and the paint waste storage shed. The scope of work for this Phase II was developed using the findings of the Phase I Investigation.

A total of nine soil sample locations were investigated at the site. Eight soil borings were advanced at the Site using hollow-stem auger technology. Two soil samples per borehole were collected to investigate the focus areas. All of the borings were advanced until the point of auger refusal. One additional surface soil sample (0 – 0.5') was collected from a stained surface soil area near the existing oil/water separator. There are four existing monitoring wells that had been previously installed by consultants on the site property. One groundwater sample was collected from each of the four monitoring wells during this investigation.

Soil and groundwater samples were analyzed for volatile organic compounds (VOCs) and semivolatile organic compounds (SVOCs), eight (8) RCRA metals (+ copper near the former truck wash only), and polychlorinated biphenyls (PCBs). The parameter of pH was also analyzed in the soil samples. The results of these analyses were evaluated against the Arizona Department of Environmental Quality (ADEQ) Remedial Action Title 18 Environmental Quality, Chapter 7 Article 2: Soil Remediation Standards, March 31, 2001 and the ADEQ

Chapter 11 Article 4: Aquifer Water Quality Standards, March 31, 2001. The comparison with these standards is used to provide a preliminary evaluation of the Site's environmental status.

Results and Conclusions

The results of this Phase II Investigation identify six areas, including a stained surface soil area, where site activities may have had potential impact to the subsurface soils and/or groundwater. Soil samples were collected from these areas of concern in order to assess subsurface soil conditions in those areas, and groundwater samples were collected from four existing monitoring wells at the Site to assess the existing groundwater conditions.

Shallow soil samples were collected from depths ranging between zero to 4.5 feet below the ground surface (bgs) and deeper soil samples were collected from depths ranging from nine to 12 feet bgs. One deep soil sample was collected from a depth of 21.5 feet bgs since backfill from a former excavation was present in that area of drilling and auger refusal was not encountered until the bottom of the former excavation. VOCs, SVOCs and PCBs were detected in various soil samples collected from the site; however, their concentrations were below the ADEQ Soil Remediation Standards for Non-Residential sites. Metals were also detected in all soil samples collected from the site; however, arsenic and lead are the only metals that exceed the ADEQ Soil Remediation Standards at four of the nine soil sampling locations. Three of the soil sampling locations (KB-4 (0-1.5'); KB-8 (0.5-1.5') and (9-10'); and KSS (0-0.5')) were focused around the former waste oil UST and the stained surface soil around the oil/water separator. The soil samples from these locations only exceed the arsenic standard. The fourth soil sampling at KB-7 (1.5-3') focused around the paint spray booth. The soil sample from this location exceeded the arsenic and lead standards.

The groundwater sample results collected from the four existing monitoring well locations (MW-A, MW-B, MW-C, and MW-D) indicate the presence of metals only. Three of the nine metals that were detected in the groundwater samples (arsenic, chromium, and total lead), exceed the ADEQ Aquifer Water Quality Standards.

Recommendations

Based on the findings of this Phase II Investigation, soil samples collected from around the former waste oil UST, the existing oil/water separator, and the paint spray booth indicate the presence of arsenic and lead in concentrations that exceed the ADEQ Soil Remediation

Standards for Non-Residential Sites. Further investigation is recommended to determine the nature, magnitude and extent of these metals' occurrence in order to determine an appropriate remedial strategy.

The concentration of arsenic and chromium exceed the ADEQ Aquifer Water Quality Standards in all the wells sampled at the Site. The concentration of lead in the water samples collected from MW-B and C exceed the ADEQ Aquifer Water Quality Standards.

The recommendation for addressing groundwater remediation at the site cannot be fully developed at this time. KERAMIDA was unable to obtain previous reports documenting the elevation of the existing monitoring wells. As a result, accurate groundwater flow direction maps could be prepared, and upgradient and downgradient water directions could not be determined. In addition, as found in the Phase I investigation, the Site is located within an area referred to by ADEQ as the "East Washington Water Quality Assurance Revolving Fund (WQARF) Project Area" – a regionally contaminated groundwater zone. At the time of the Phase I, Fruehauf had not been named as an alleged contributor to the contamination of the groundwater of the area. The fact that the Site is located in an area that has known regional groundwater contamination may imply that the groundwater beneath the site has been impacted by off-site sources. Observations noted from this sampling event that support this statement include:

- Metals will be mobile through soil environments with acidic pH values (i.e. values at the lower end of the pH scale - below 7.0). Only one surface soil sample (KSS) had even a slightly acidic pH value (6.4.standard units). The remainder of the samples had pH values ranging between 7.4 to 9.6 standard units. Since the pH at the Site is mostly basic (i.e. not acidic) in nature, metals will likely not be as mobile through these soils.

- Chromium is present in the water samples in high concentrations. However, chromium concentrations in soil samples from the Site do not exceed soil remediation standards. This may imply that chromium in the groundwater is from an off-site source(s).

- Only the shallow soil sample at borehole KB-7 indicates that lead exceeds the soil remediation standards. The deep soil sample from this location indicates that the lead concentration is below the respective soil remediation standard. This may imply that lead in the Site soil at KB-7 is binding with the soil materials and not reaching the groundwater table.

The arsenic standard is exceeded in the shallow and deep soil samples from KB-8, and only in the shallow soils at KB-4 and KB-7. The arsenic concentrations from both depths at KB-8 and the shallow depths at KB-4 and KB-7 are very similar and only slightly over the soil remediation standard. Since arsenic is found in the deeper soil sample at KB-8 it may be implied that arsenic found at the Site may be reaching greater depths and possibly impacting the groundwater. It is not possible to make a conclusive statement without deeper soil results from that location and without further investigation as to other potential off-site sources.

KERAMIDA recommends that a detailed file search related to the "East Washington WQARF Project Area" be conducted. The goal of this file search would be to obtain public information related to the work that has been conducted by the ADEQ in assessing groundwater conditions within the area. The ADEQ information should have defined groundwater flow directions, contaminants and concentrations of concern, and potential or known source areas. The information will be evaluated by KERAMIDA to assess if there is a potential that the groundwater at the Site has been impacted by off-site sources rather than by the past activities on the Site.

KERAMIDA also recommends that an elevation survey be conducted of the existing monitoring wells at the Site so that accurate groundwater flow direction beneath the Site can be determined.

TABLE OF CONTENTS

EXECUTIVE SUMMARY i
Results and Conclusions ii
Recommendations ii
1.0 INTRODUCTION 1
1.1 SITE DESCRIPTION 2
2.0 INVESTIGATIVE METHODS 2
3.0 INVESTIGATIVE RESULTS 5
3.1 SOIL RESULTS 5
3.2 GROUNDWATER RESULTS 12
4.0 CONCLUSIONS AND RECOMMENDATIONS 14
5.0 USE OF REPORT 16
6.0 LIMITATIONS 16
REFERENCES 17

ATTACHMENTS

1 Figure 1: Vicinity Map
Figure 2: Site Map
Figure 3: Site Detail Map
Figure 4: Soil Boring Location Map
Figure 5: Soil Analytical Results Map
Figure 6 Groundwater Analytical Results Map

2 KERAMIDA's Standard Operating Procedures

3 Boring Logs

4 Analytical Report
Chain-of-Custody Documentation

PHASE II ENVIRONMENTAL SITE INVESTIGATION
FORMER FRUEHAUF TRAILER FACILITY
902 SOUTH 7th STREET
PHOENIX, ARIZONA
KERAMIDA PROJECT NO. 2961A

1.0 INTRODUCTION

KERAMIDA Environmental, Inc. (KERAMIDA) completed a Phase II Environmental Site Investigation (Phase II) of the Former Fruehauf Facility located at 902 South 7th Street in Phoenix, Maricopa County, Arizona (Site) for Mr. Rick Bossingham, Wabash National LLC (Client), in May of 2001. The purpose of the project was to investigate areas of environmental concern identified during a Phase I Environmental Site Assessment (Phase I) completed by KERAMIDA in August of 1999.

The Site consists of a single-story building and parking lot area along South 7th Street. The following areas of focus were identified during the Phase I Investigation: possible soil and groundwater contamination due to operation as a trailer sales and service business at the Site, and possible groundwater contamination due to off-Site source(s). Specific areas of concern include: a waste oil underground storage tank (UST) that had been removed from a location near the former truck wash; an existing oil/water separator near the northwest corner of the building; the former and existing truck wash areas and an associated dry well; the paint spray booth; and the paint waste storage shed. The scope of work for this Phase II was developed using the findings of the Phase I Investigation.

For the purpose of this preliminary evaluation, the Arizona Department of Environmental Quality (ADEQ) Remedial Action Title 18 Environmental Quality, Chapter 7 Article 2: Soil Remediation Standards, March 31, 2001 and the ADEQ Chapter 11 Article 4: Aquifer Water Quality Standards, March 31, 2001 were used to establish the degree of contamination in the areas of environmental concern. These standards are human-health risk based and, therefore, provide a good starting point to determine the significance of the analytical results. This report documents the activities conducted during the Phase II Investigation and presents the findings generated.

1.1 SITE DESCRIPTION

The Site is located on the west side of South 7th Street between East Sherman and East Tonto Streets. A one-story building is located at the northeast corner of the rectangular-shaped property with an asphalt parking lot over most of the remaining area of the Site. The one-story building, comprising approximately 22,500 square feet, is built on a concrete slab with concrete block construction. The exact age of the structure is not known; it is expected, however, to be at least 50 years old, based on information obtained from the Sanborn maps.Concrete pads form the base of an existing and former truckwash area. The Site is surrounded on all sides by commercial/industrial properties, and is located in a predominantly industrial area within two miles southeast of downtown Phoenix. A Vicinity Map and a Site Map are included as Figures 1 and 2, respectively in Attachment 1.

Initially, the dry well that was allegedly located near the former truck wash area and former waste oil UST was of concern for this investigation. Upon discussions with the current Fruehauf/Wabash Service Manager, Mr. Bruce Kasmer, it was determined that dry well removal was conducted concurrent with the removal of the former UST. Contaminated soils that were found at the time were also removed to at least the depth of excavation of a trackhoe (approximately 20 feet). The excavation was then backfilled with clean, non-native materials (sand and gravel). Some of the contaminated soils that were removed were properly disposed of off-site at a landfill and some of the contaminated soil was treated on site using microbes for a period of several years. Mr. Kasmer did not know the details of the on-site treatment activities, but stated that he recalled that the microbe treatments did not achieve the cleanup goals desired, and the soils were then removed from the site and sent for incineration. He was not aware of any reports related to the on-site treatment. There was no evidence of a dry well at the Site at the time of this investigation and boring KB-2 was installed within the former excavation area related to the dry well and waste oil UST. None of the compounds analyzed from the deep soil sample at KB-2 exceed the ADEQ soil standards for non-residential sites.

2.0 INVESTIGATIVE METHODS

KERAMIDA performed field activities between May 21 and May 25, 2001 in order to collect soil and groundwater samples from the Site. Prior to the initiation of the field activities, all pertinent utility companies were notified to mark underground utilities at the Site. A site safety

meeting, including a review of the health and safety plan, was performed at the beginning of field activities.

Eight soil borings (KB-1 to KB-8) were advanced at the Site using hollow-stem auger (HSA) technology. One hand boring was conducted from 0 to six inches deep in a stained soil area (KSS). Specific Site features and areas of concern are noted on the Site Detail Map of Figure 3 in Attachment 1. The soil boring locations are depicted on the Soil Boring Location Map provided as Figure 4 in Attachment 1. The HSA borings were completed by Yellow Jacket Drilling Company under the direct supervision of Brian Harrington, Site Manager with KERAMIDA. The borings were advanced following KERAMIDA's Standard Operating Procedures (Attachment 2). The borings were continuously sampled every three feet and logged. The boring logs are included in Attachment 3.

The rationale for the selected locations of the borings, boring depths from which samples were collected and the analyses performed are given in Table 1 below. In general, borings were placed in or around the areas of concern identified in the Phase I Investigation. Table 1 also includes the depths of the borings and whether groundwater was encountered. Soil and groundwater samples were collected according to KERAMIDA's Procedures (Attachment 2). Collected samples were submitted to Test America Laboratories of Nashville, Tennessee, for analyses of: volatile organic compounds (VOCs) by EPA SW-846 Method 8260; semivolatile organic compounds (SVOCs) by EPA SW-846 Method 8270; polychlorinated biphenyls (PCBs) by EPA SW-846 Method 8080/8081; eight (8) RCRA Metals + copper by EPA Methods; and pH by EPA Method 150.1/9040. Table 1 shows which samples were analyzed and the parameters for which they were analyzed.

Table 1
Former Fruehauf Trailer Facility
902 South 7th Street
Phoenix, Arizona
KERAMIDA PROJECT NO. 2961A

SOIL SAMPLING							
Boring/Well Number	**Location Rationale**	**Method**	**Date**	**Total Depth (ft)**	**Sample Depth (ft)**	**Sampling Rationale**	**Lab Testing**
KB-1	Former Truck Wash Area,	HSA®	5/21/01	13.5	1.5-3.0 and 12-13.5	No GW encountered	VOCs,SVOCs,Metals, pH
KB-2	Former Truck Wash Area,	HSA®	5/21/01	21.5	4.0-4.5 and 21-21.5	No GW encountered; w/n stain area	VOCs, SVOCs, Metals, pH
KB-3	Near Oil/water Separator	HSA®	5/21/01	12.5	0.5-1.5 and 10.5-12.0	No GW encountered; w/n stain area	VOCs, SVOCs, Metals, pH, PCBs
KB-4	Former Waste Oil UST area	HSA®	5/22/01	11.5	0.5-1.5 and 10.5-11.5	No GW encountered	VOCs, SVOCs, Metals, pH, PCBs
KB-5	Paint Waste Storage Shed	HSA®	5/22/01	11.25	1.0-1.5 and 10.5-11.0	No GW encountered	VOCs, SVOCs, Metals, pH
KB-6	Floor Drain at existing Truck Wash	HSA®	5/24/01	10	1.5-3.0 and 9.0-10.0	No GW encountered	VOCs, SVOCs, Metals, pH, PCBs
KB-7	Paint Spray Booth	HSA®	5/24/01	11.5	1.5-3.0 and 10.5-11.5	No GW encountered	VOCs, SVOCs, Metals, pH
KB-8	Betw..Former Truck Wash and Oil/water separator	HSA®	5/22/01	11.0	0.5-1.5 and 9.0-10.0	No GW encountered; w/n stain area	VOCs, SVOCs, Metals, pH, PCBs
KSS	Stained Soil	Hand Auger	5/24/01	0.50	0.0-0.50	Stained Soil	VOCs, SVOCs, Metals, pH, PCBs
GROUNDWATER SAMPLING							
MW-A	Existing well	Unknown	Unknown		NA	Existing	VOCs, SVOCs, Metals, PCBs
MW-B	Existing well	Unknown	Unknown		NA	Existing	VOCs, SVOCs, Metals, PCBs
MW-C	Existing well	Unknown	Unknown		NA	Existing	VOCs, SVOCs, Metals, PCBs
MW-D	Existing well	Unknown	Unknown		NA	Existing	VOCs, SVOCs, Metals, PCBs

GW = Groundwater VOCs = Volatile Organic Compounds SVOCs = Semivolatile Organic Compounds
HSA® = Hollow-Stem Auger

3.0 INVESTIGATIVE RESULTS

The topography of the Site is flat with an average ground surface elevation of 1080 feet above mean sea level. The subsurface material encountered in the soil borings completed at the Site during this Phase II Investigation consists of a layer of fill material and/or sandy, silty clay to approximately six or seven feet below ground surface (bgs) overlying mixtures of fine sand and gravel to the maximum depth of soil exploration (21 feet). Seven of the eight borings encountered refusal at depths between 11 and 13 feet bgs. Boring KB- 2 was drilled in a location that had previously been backfilled with loose non-native material (sand and gravel) and therefore, did not encounter refusal until 21 bgs. For a complete description of the materials encountered in the borings, please refer to the boring logs provided in Attachment 3.

Without conducting an elevation survey of the existing monitoring wells, the direction of groundwater flow could not be precisely determined. The Salt River is located less than a quarter mile south of the Site, and in general, in an environment such as Arizona, the groundwater flow would likely be away from surface water sources (ie from south to north at the site). The Salt River was dry at the time of sampling. The monitoring wells were installed in a general straight line from northwest to southeast. Groundwater was observed at a depth of approximately 75 feet bgs.

3.1 SOIL RESULTS

The VOCs, SVOCs, PCBs and Metals detected in the soil samples are summarized in Tables 2, 3, 4, and 5, respectively. The analytical results for these samples are also provided on Figure 4 of Attachment 1. The ADEQ Soil Remediation Standards are provided at the bottom of each table. The results were evaluated against Non-residential Standards due to the location of the Site being in an industrial area. Copies of the laboratory reports are included in Attachment 4.

The analytical results for VOCs, SVOCs, and PCBs for all soil samples were below the respective ADEQ Soil Remediation Standard. Some constituents that were detected at the Site do not have standards developed for them so no comparison has been made regarding the significance of their on-site concentrations.

As illustrated in Table 5, metals constituents in the soil samples collected from borings KB-4 (0-1.5'); KB-8 (0.5-1.5') and (9-10'); KSS (0-0.5') and KB-7 (1.5-3') exceed their respective ADEQ Non-residential Standards.

Table 2
Soil VOC Results (mg/kg)
Fruehauf Trailers
Phoenix, Arizona
KERAMIDA Project No. 2961A

Sample No.	Date Sampled	Sample Depth (feet)	Lab Sample No.	Acetone	sec-Butylbenzene	Carbon disulfide	Ethylbenzene	Isopropylbenzene	4-Isopropyltoluene	Naphthalene	n-Propylbenzene	Tetrachloroethene	Toluene	1,2,4-Trimethyl-benzene	1,3,5-Trimethyl-benzene	Xylenes, Total	All Other VOCs
KB-1	5/21/01	0.5-1.5	01-A68595	**0.082**	**0.0153**	**0.0069**	**0.0232**	**0.0074**	**0.0191**	**0.0983**	**0.0211**	**0.0093**	**0.0025**	**0.0148**	**0.0031**	**0.0079**	ND
KB-1	5/21/01	12-13.5	01-A68596	< 0.0500	< 0.0020	< 0.0020	< 0.0020	< 0.0020	< 0.0020	< 0.0050	< 0.0020	< 0.0020	< 0.0020	< 0.0020	< 0.0020	< 0.0020	ND
KB-2	5/21/01	4-4.5	01-A68597	< 0.0500	< 0.0020	< 0.0020	< 0.0020	< 0.0020	< 0.0020	< 0.0050	< 0.0020	< 0.0020	< 0.0020	< 0.0020	< 0.0020	< 0.0020	ND
KB-2	5/21/01	21-21.5	01-A68598	< 0.0500	< 0.0020	< 0.0020	< 0.0020	< 0.0020	< 0.0020	< 0.0050	< 0.0020	< 0.0020	< 0.0020	< 0.0020	< 0.0020	< 0.0020	ND
KB-3	5/21/01	0.5-1.5	01-A68599	< 0.0500	< 0.0020	< 0.0020	< 0.0020	< 0.0020	< 0.0020	< 0.0050	< 0.0020	< 0.0020	< 0.0020	< 0.0020	< 0.0020	< 0.0020	ND
KB-3	5/21/01	10.5-12	01-A68600	< 0.0500	< 0.0020	< 0.0020	< 0.0020	< 0.0020	< 0.0020	< 0.0050	< 0.0020	< 0.0020	< 0.0020	< 0.0020	< 0.0020	< 0.0020	ND
KB-4	5/22/01	0-1.5	01-A68601	**0.0846**	< 0.0020	< 0.0020	< 0.0020	< 0.0020	< 0.0020	< 0.0050	< 0.0020	< 0.0020	< 0.0020	< 0.0020	< 0.0020	< 0.0020	ND
KB-4	5/22/01	10.5-11.5	01-A68602	< 0.0500	< 0.0020	< 0.0020	< 0.0020	< 0.0020	< 0.0020	< 0.0050	< 0.0020	< 0.0020	< 0.0020	< 0.0020	< 0.0020	< 0.0020	ND
KB-5	5/22/01	0-1.5	01-A68603	< 0.0500	< 0.0020	< 0.0020	< 0.0020	< 0.0020	< 0.0020	< 0.0050	< 0.0020	< 0.0020	< 0.0020	< 0.0020	< 0.0020	< 0.0020	ND
KB-5	5/22/01	10.5-11.5	01-A68604	< 0.0500	< 0.0020	< 0.0020	< 0.0020	< 0.0020	< 0.0020	< 0.0050	< 0.0020	< 0.0020	< 0.0020	< 0.0020	< 0.0020	< 0.0020	ND
KB-6	5/24/01	1.5-3	01-A70084	< 0.0500	< 0.0020	< 0.0020	< 0.0020	< 0.0020	< 0.0020	< 0.0050	< 0.0020	< 0.0020	< 0.0020	< 0.0020	< 0.0020	< 0.0020	ND
Arizona DEQ Residential Soil Remediation Levels[1]				2,100	110[2]	7.5	1,500	19	*	2,600	140[2]	53	790	52[2]	21[2]	2,800	NA
Arizona DEQ Non-Residential Soil Remediation Levels[1]				8,800	420[2]	24	2,700	62	*	27,000	560[2]	170	2,700	170[2]	70[2]	2,800	NA

VOCs = Volatile Organic Compounds
Samples analyzed using EPA SW-846 Method 8270
mg/kg = milligrams per kilogram
NA = Not Applicable
[1] Arizona Administrative Code
Department of Environmental Quality - Remedial Action
Title 18, Chapter 7, Article 2: Soil Remediation Standards, March 31, 2001
[2] U.S. EPA Region IX, Risk Based Concentration Table, Updated November 1999
* no standards developed

Table 2
Soil VOC Results (mg/kg)
Fruehauf Trailers
Phoenix, Arizona
KERAMIDA Project No. 2961A

Sample No.	Date Sampled	Sample Depth (feet)	Lab Sample No.	Acetone	sec-Butylbenzene	Carbon disulfide	Ethylbenzene	Isopropylbenzene	4-Isopropyltoluene	Naphthalene	n-Propylbenzene	Tetrachloroethene	Toluene	1,2,4-Trimethyl-benzene	1,3,5-Trimethyl-benzene	Xylenes, Total	All Other VOCs
KB-6	5/24/01	9-10	01-A70085	< 0.0500	< 0.0020	< 0.0020	< 0.0020	< 0.0020	< 0.0020	< 0.0050	< 0.0020	< 0.0020	**0.0038**	< 0.0020	< 0.0020	< 0.0020	ND
KB-7	5/24/01	1.5-3	01-A70086	< 0.0500	< 0.0020	< 0.0020	< 0.0020	< 0.0020	< 0.0020	< 0.0050	< 0.0020	< 0.0020	< 0.0020	< 0.0020	< 0.0020	< 0.0020	ND
KB-7	5/24/01	10.5-11.5	01-A70087	< 0.0500	< 0.0020	< 0.0020	< 0.0020	< 0.0020	< 0.0020	< 0.0050	< 0.0020	< 0.0020	< 0.0020	< 0.0020	< 0.0020	< 0.0020	ND
KB-8	5/22/01	0.5-1.5	01-A68605	< 0.0500	< 0.0020	< 0.0020	< 0.0020	< 0.0020	< 0.0020	< 0.0050	< 0.0020	< 0.0020	< 0.0020	< 0.0020	< 0.0020	< 0.0020	ND
KB-8	5/22/01	9-10	01-A68606	< 0.0500	< 0.0020	< 0.0020	< 0.0020	< 0.0020	< 0.0020	< 0.0050	< 0.0020	< 0.0020	< 0.0020	< 0.0020	< 0.0020	< 0.0020	ND
KSS	5/24/01	0-.5	01-A70083	< 2.500	< 0.1000	< 0.1000	< 0.1000	< 0.1000	<0.1000	< 0.2500	< 0.1000	< 0.1000	< 0.1000	**0.94**	**0.51**	< 0.1000	ND
Arizona DEQ Residential Soil Remediation Levels[1]				2,100	110[2]	7.5	1,500	19	*	2,600	140[2]	53	790	52[2]	21[2]	2,800	NA
Arizona DEQ Non-Residential Soil Remediation Levels[1]				8,800	420[2]	24	2,700	62	*	27,000	560[2]	170	2,700	170[2]	70[2]	2,800	NA

VOCs = Volatile Organic Compounds
Samples analyzed using EPA SW-846 Method 8270
mg/kg = milligrams per kilogram
NA = Not Applicable
[1] Arizona Administrative Code
Department of Environmental Quality - Remedial Action
Title 18, Chapter 7, Article 2: Soil Remediation Standards, March 31, 2001
[2] U.S. EPA Region IX, Risk Based Concentration Table,
Updated November 1999
* no standards developed

Table 4
Soil PCB Analytical Results (mg/kg)
Fruehauf Trailers
Phoenix, Arizona
KERAMIDA Project No. 2961A

Sample No.	Date Sampled	Sample Depth (feet)	Lab Sample No.	PCB-1016	PCB-1221	PCB-1232	PCB-1242	PCB-1248	PCB-1254	PCB-1260
KB-1	5/21/01	0.5-1.5	01-A68595	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	**0.1562**
KB-1	5/21/01	12-13.5	01-A68596	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200
KB-2	5/21/01	4-4.5	01-A68597	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200
KB-2	5/21/01	21-21.5	01-A68598	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200
KB-3	5/21/01	0.5-1.5	01-A68599	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	**0.045**
KB-3	5/21/01	10.5-12	01-A68600	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200
KB-4	5/22/01	0-1.5	01-A68601	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200
KB-4	5/22/01	10.5-11.5	01-A68602	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200
KB-8	5/22/01	0.5-1.5	01-A68605	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	**0.0513**
KB-8	5/22/01	9-10	01-A68606	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200
KSS	5/24/01	0-6	01-A70083	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200
Arizona DEQ Residential Soil Remediation Levels[1]				2.5						
Arizona DEQ Non-Residential Soil Remediation Levels[1]				13						

PCBs = Polychlorinated Biphenyls
Samples analyzed using EPA SW-846 Method 8082
mg/kg = milligrams per kilogram
[1] Arizona Administrative Code
Department of Environmental Quality - Remedial Action
Title 18, Chapter 7, Article 2: Soil Remediation Standards, March 31, 2001

Table 5
Soil Metal Analytical Results (mg/kg)
Fruehauf Trailers
Phoenix, Arizona
KERAMIDA Project No. 2961A

Sample No.	Date Sampled	Sample Depth (feet)	Lab Sample No.	Total Arsenic	Total Barium	Total Cadmium	Total Chromium	Copper	Lead	Total Mercury	Total Selenium	Total Silver	pH	All Other Metals
KB-1	5/21/01	0.5-1.5	01-A68595	4	66	< 1.000	3	16.8	32.2	< 0.099	< 1.000	< 1.000	9.2	ND
KB-1	5/21/01	12-13.5	01-A68596	2.72	49.9	< 0.971	2.14	1.55	3.11	< 0.099	< 0.971	< 0.971	7.8	ND
KB-2	5/21/01	4-4.5	01-A68597	2.57	54.5	< 0.952	3.05	276	9.33	< 0.098	< 0.952	< 0.952	7.4	ND
KB-2	5/21/01	21-21.5	01-A68598	< 0.990	23.4	< 0.990	1.98	23.8	2.57	< 0.096	< 0.990	< 0.990	7.5	ND
KB-3	5/21/01	0.5-1.5	01-A68599	2.37	40.7	< 0.988	1.38	7.9	23.7	0.122	< 0.988	< 0.988	7.9	ND
KB-3	5/21/01	10.5-12	01-A68600	8.95	68.1	< 0.973	16.9	7.98	4.09	< 0.099	2.72	< 0.973	8	ND
KB-4	5/22/01	0-1.5	01-A68601	13.7	167	< 0.963	30.1	31.6	18.5	< 0.099	3.28	< 0.963	8.2	ND
KB-4	5/22/01	10.5-11.5	01-A68602	6.16	77.7	< 0.994	16.3	7.95	4.18	< 0.099	0.994	< 0.994	7.9	ND
KB-5	5/22/01	0-1.5	01-A68603	9.22	110	< 0.980	34.5	NA	4.12	< 0.980	< 0.980	<0.980	7.9	ND
KB-5	5/22/01	10.5-11.5	01-A68604	8.09	74.4	< 0.963	30.4	NA	3.47	< 0.963	< 0.963	<0.963	9.1	ND
KB-6	5/24/01	1.5-3	01-A70084	3.48	97.7	< 0.965	14.3	NA	17	< 0.965	< 0.965	<0.965	9	ND
KB-6	5/24/01	9-10	01-A70085	2.36	84.9	< 0.958	18.2	NA	7.09	< 0.958	< 0.958	<0.958	8.1	ND
KB-7	5/24/01	1.5-3	01-A70086	10.9	515	< 0.975	43.7	NA	4870	< 0.975	< 0.975	<0.975	8.5	ND
KB-7	5/24/01	10.5-11.5	01-A70087	8.22	71.4	< 0.978	30.7	NA	6.46	< 0.978	< 0.978	<0.978	9.6	ND
KB-8	5/22/2001	0.5-1.5	01-A68605	11.4	187	<0.996	28.1	24.3	41.6	<0.098	2.19	<0.996	7.6	ND
KB-8	5/22/01	9-10	01-A68606	11.8	146	< 0.986	28.2	49.7	29.6	< 0.098	2.56	< 0.986	8.6	ND
KSS	5/24/01	0-6	01-A70083	16.9	176	3.8	33.8	6640	87.1	< 0.100	3.8	2.6	6.4	ND
Arizona DEQ Residential Soil Remediation Levels[1]				10	5,300	38	2,100	2,800	400	6.7	380	380		NA
Arizona DEQ Non-Residential Soil Remediation Levels[1]				10	110,000	850	4,500	63,000	2,000	180	8,500	8,500		NA
Common Background Ranges [2]				20	5,900	77	10,000		230	32	53	87		

mg/kg = milligrams per kilogram
Samples analyzed using EPA Method Series 6000/7000
[1] Arizona Administrative Code, Department of Environmental Quality, Remedial Action, Title 18, Chapter 7, Article 2: Soil Remediation Standards, March 31, 2001
[2] Source: James Dragun. The Soil Chemistry of Hazardous Materials Table 3.1 Native Soil Concentration of Various Elements: p.229, 1988

3.2 GROUNDWATER RESULTS

The VOCs, SVOCs, and PCBs were not detected in levels above their respective detection limits, and Metals detected in the groundwater samples are summarized in Table 6, and are also depicted on Figure 5 of Attachment 1. The ADEQ Chapter 11 Article 4: Aquifer Water Quality Standards March 31, 2001 are provided at the bottom of the table. The results were evaluated against these standards.

The results for VOCs, SVOCs, and PCBs for all water samples collected were below the respective ADEQ Aquifer Water Quality Standards. As illustrated in Table 6, five metals were detected in the groundwater beneath the site. Of these metals, arsenic, chromium, and lead were detected at concentrations above their ADEQ Water Quality Standards at MW-B and MW-C and only arsenic and chromium were exceeded in MW-A and MW-D.

Water levels were generally at 75 feet bgs; however, without surveyed elevations of the monitoring wells, accurate groundwater flow direction could not be made. The Salt River is less than ¼ mile from the Site and in general, in arid environments such as Arizona, groundwater flow would likely be away from surface water sources (i.e. from south to north at the site). The Salt River was dry at the time these water samples were collected.

Table 6
Groundwater Metal Analytical Results (ug/L)
Fruehauf Trailers
Phoenix, Arizona
KERAMIDA Project No. 2961A

Sample No.	Date Sampled	Sample Depth (feet)	Lab Sample No.	Total Arsenic	Total Barium	Total Cadmium	Total Chromium	Total Lead	Total Mercury	Total Nickel	Total Selenium	All Other Metals
MW-A	5/24/01		01-A70077	98	778	< 1.0	133	36	<.20	< 5.0	< 5.0	ND
MW-B	5/24/01		01-A70078	113	1170	< 1.0	130	57	0.27	< 5.0	< 5.0	ND
MW-C	5/24/01		01-A70079	129	1270	< 1.0	122	57	0.37	< 5.0	< 5.0	ND
MW-D	5/24/01		01-A70080	122	932	< 1.0	163	49	0.26	< 5.0	< 5.0	ND
MW-D-D	5/24/01		01-A70081	74	729	< 1.0	77	29	0.27	< 5.0	< 5.0	ND
Arizona DEQ Aquifer Water Quality Standards[1]				50	2,000	5.0	100	50	2.0	100	50	NA

Samples analyzed using EPA Method Series 6000/7000
ug/L = micrograms per liter
ND = Not Detected
NA = Not Applicable
[1] Arizona Administrative Code
Department of Environmental Quality - Remedial Action
Title 18, Chapter 11, Article 4: Aquifer Water Quality Standards, March 31, 2001
* no standards developed

4.0 CONCLUSIONS AND RECOMMENDATIONS

Conclusions

This Phase II Investigation focused on several areas of environmental concern identified by KERAMIDA's Phase I Environmental Site Assessment. Metals are the only compounds of concern that exceed the ADEQ Soil Remediation and Aquifer Water Quality Standards. The metals that exceed the ADEQ Soil Remediation Standards are arsenic and lead. The metals that exceed the ADEQ Aquifer Water Quality Standards are arsenic, chromium, and lead.

Recommendations

Based on the findings of this Phase II Investigation, soil samples collected from around the former waste oil UST, the existing oil/water separator, and the paint spray booth indicate the presence of arsenic and lead in concentrations that exceed the ADEQ Soil Remediation Standards for Non-Residential Sites. Further investigation is recommended to determine the nature, magnitude and extent of these metals' occurrence in order to determine an appropriate remedial strategy.

The concentration of arsenic and chromium exceed the ADEQ Aquifer Water Quality Standards in all the wells sampled at the Site. The concentration of lead in the water samples collected from MW-B and C exceed the ADEQ Aquifer Water Quality Standards.

The recommendation for addressing groundwater remediation at the site cannot be fully developed at this time. KERAMIDA was unable to obtain previous reports documenting the elevation of the existing monitoring wells. As a result, accurate groundwater flow direction maps could be prepared, and upgradient and downgradient water directions could not be determined. In addition, as found in the Phase I investigation, the Site is located within an area referred to by ADEQ as the "East Washington Water Quality Assurance Revolving Fund (WQARF) Project Area" – a regionally contaminated groundwater zone. At the time of the Phase I, Fruehauf had not been named as an alleged contributor to the contamination of the groundwater of the area. The fact that the Site is located in an area that has known regional groundwater contamination may imply that the groundwater beneath the site has been impacted by off-site sources. Observations noted from this sampling event that support this statement include:

- Metals will be mobile through soil environments with acidic pH values (i.e. values at the lower end of the pH scale - below 7.0). Only one surface soil sample (KSS) had even a slightly acidic pH value (6.4.standard units). The remainder of the samples had pH values ranging between 7.4 to 9.6 standard units. Since the pH at the Site is mostly basic (i.e. not acidic) in nature, metals will likely not be as mobile through these soils.

- Chromium is present in the water samples in high concentrations. However, chromium concentrations in soil samples from the Site do not exceed soil remediation standards. This may imply that chromium in the groundwater is from an off-site source(s).

- Only the shallow soil sample at borehole KB-7 indicates that lead exceeds the soil remediation standards. The deep soil sample from this location indicates that the lead concentration is below the respective soil remediation standard. This may imply that lead in the Site soil at KB-7 is binding with the soil materials and not reaching the groundwater table.

The arsenic standard is exceeded in the shallow and deep soil samples from KB-8, and only in the shallow soils at KB-4 and KB-7. The arsenic concentrations from both depths at KB-8 and the shallow depths at KB-4 and KB-7 are very similar and only slightly over the soil remediation standard. Since arsenic is found in the deeper soil sample at KB-8 it may be implied that arsenic found at the Site may be reaching greater depths and possibly impacting the groundwater. It is not possible to make a conclusive statement without deeper soil results from that location and without further investigation as to other potential off-site sources.

KERAMIDA recommends that a detailed file search related to the "East Washington WQARF Project Area" be conducted. The goal of this file search would be to obtain public information related to the work that has been conducted by the ADEQ in assessing groundwater conditions within the area. The ADEQ information should have defined groundwater flow directions, contaminants and concentrations of concern, and potential or known source areas. The information will be evaluated by KERAMIDA to assess if there is a potential that the groundwater at the Site has been impacted by off-site sources rather than by the past activities on the Site.

KERAMIDA also recommends that an elevation survey be conducted of the existing monitoring wells at the Site so that accurate groundwater flow direction beneath the Site can be determined.

5.0 USE OF REPORT

This report has been prepared for the exclusive use of the Client and persons or organizations to which the Client wishes to make this report available. This report and the findings, conclusions and recommendations contained herein shall not, in whole or in part, be disseminated or conveyed to any other party, or used by or relied upon by any other party, without the prior written consent of KERAMIDA.

6.0 LIMITATIONS

This Investigation was conducted in accordance with KERAMIDA contractual guidelines set for subsurface investigations. KERAMIDA's professional opinions contained herein are based upon the sampling conducted by KERAMIDA personnel during the subsurface Investigation. No other warranty is given or implied by this report.

\kei\clients\Wabash LLC\3691A

REFERENCES

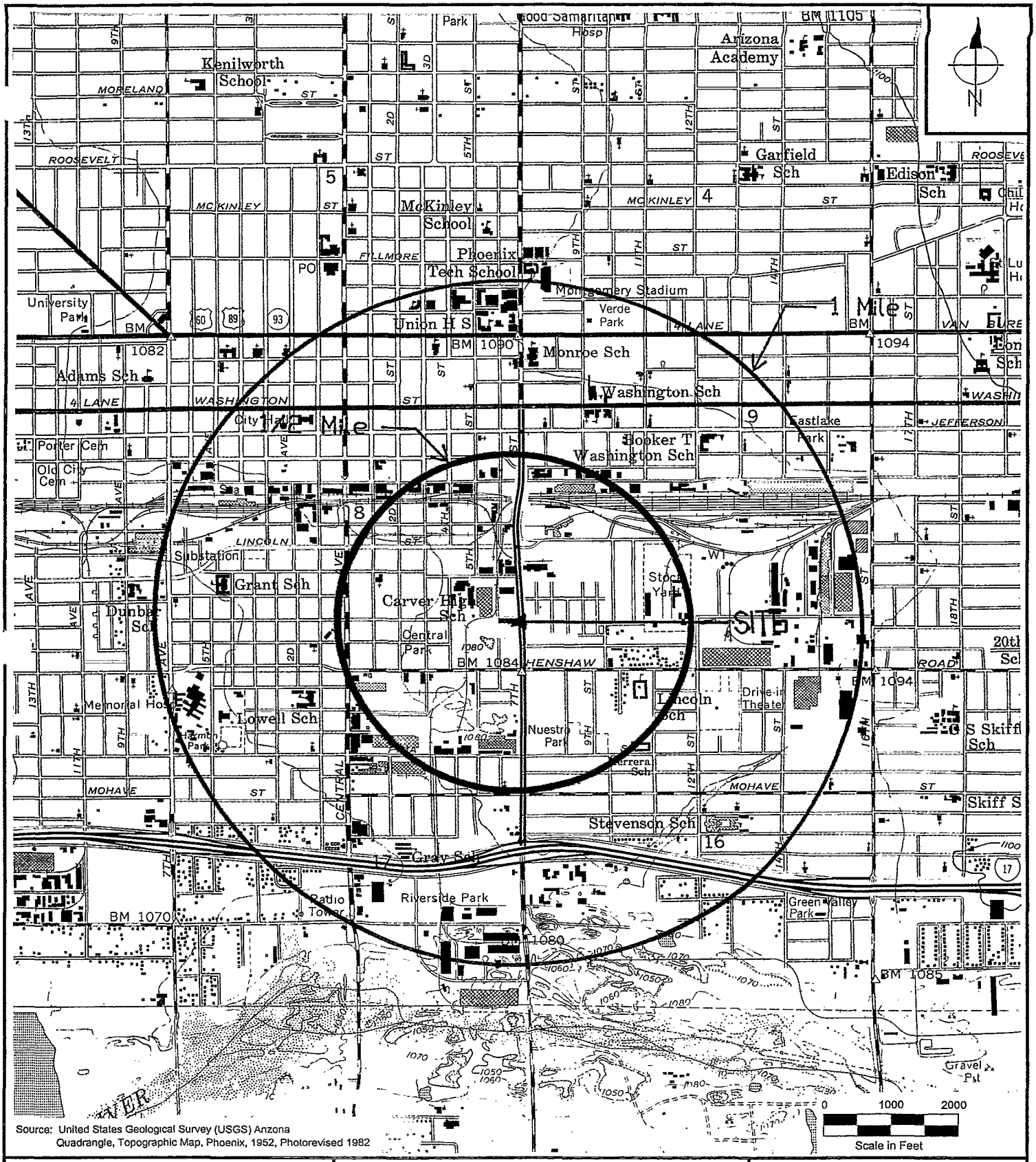
Arizona Department of Environmental Quality (ADEQ), Office of Remedial Action (March 31, 2001), Title 18, Chapter 7, Article 2 Soil Remediation Standards.

Arizona Department of Environmental Quality (ADEQ), Office of Remedial Action (March 31, 2001), Title 18, Chapter 11, Article 4 Aquifer Water Quality Standards.

KERAMIDA Environmental Inc. (August 5, 1999) Environmental Site Assessment Inspection and Environmental Fact Sheet – Fruehauf Trailers Sales, KERAMIDA Project No. 2961

United States Geological Survey (USGS) Arizona Quadrangle, Topographic Map, Phoenix, (1952; Photorevised 1982)

1

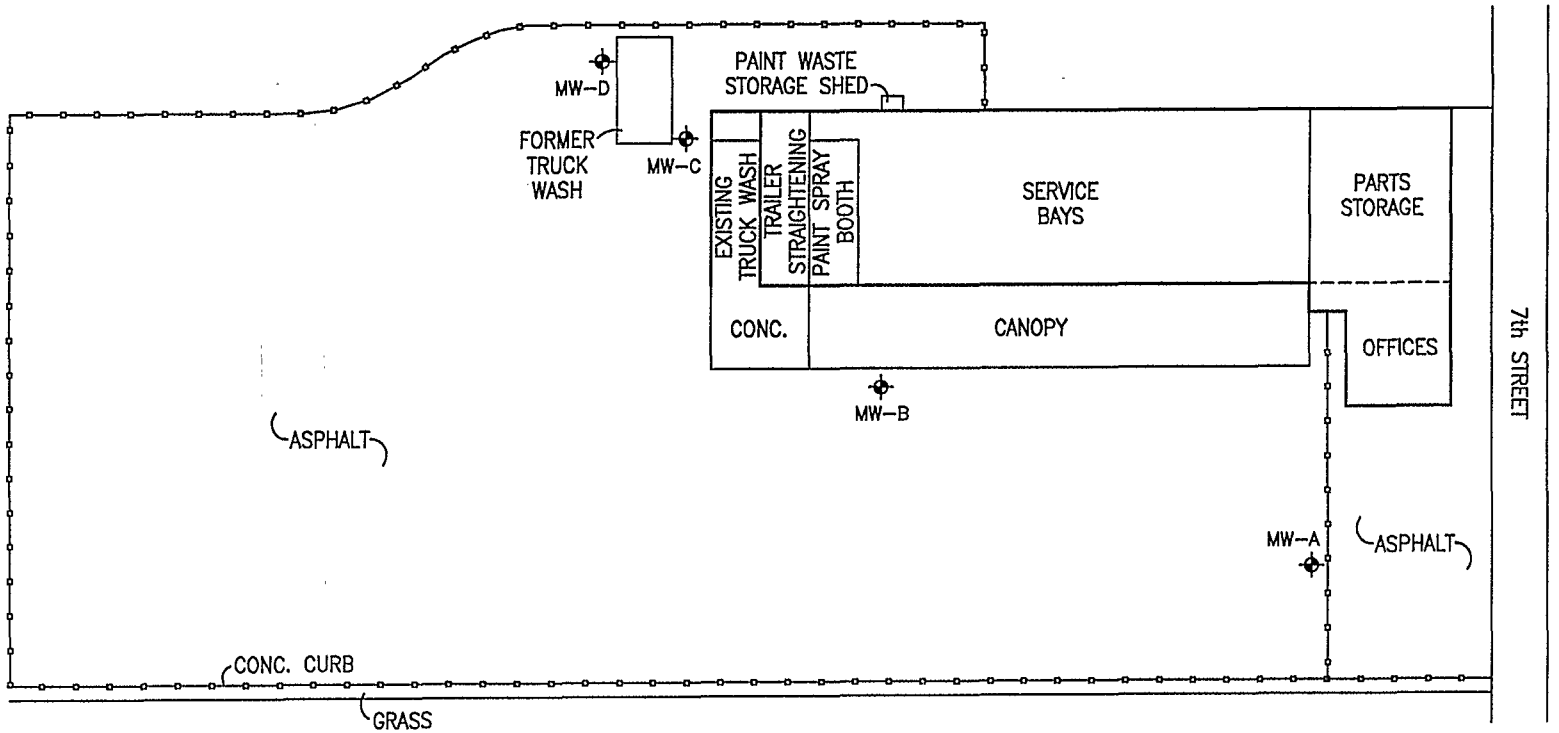


Source: United States Geological Survey (USGS) Arizona Quadrangle, Topographic Map, Phoenix, 1952, Photorevised 1982

KERAMIDA Environmental, Inc.

Figure 1
Vicinity Map
Fruehauf Trailer Facility
902 South 7th Street
Phoenix, Arizona

Prepared by :	*BEH*
Approved by :	
Date :	06/08/01
Project Number :	2961A



LEGEND

Fence Line

Monitoring Well Location

MW-A Monitoring Well ID

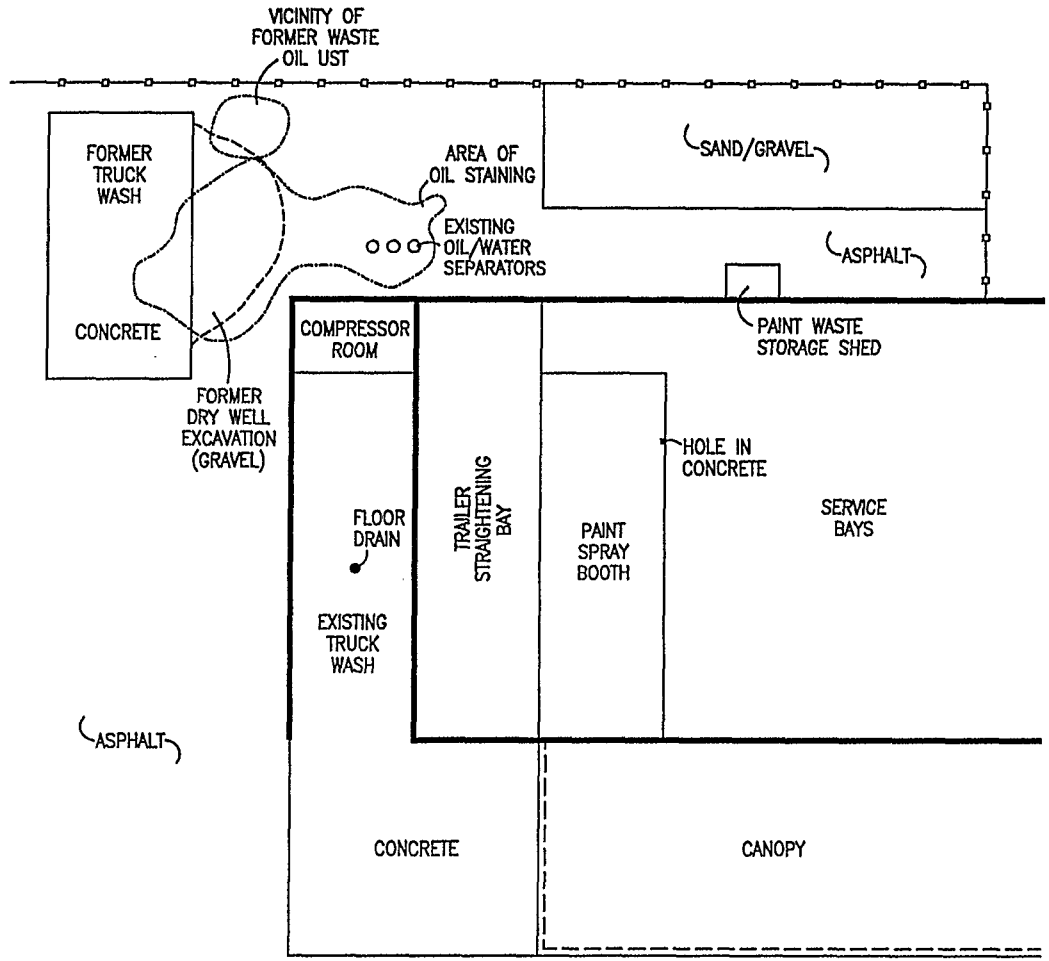
0' 40' 80'

Approximate Scale

KERAMIDA Environmental, Inc.

Figure 2
Site Map
Fruehauf Trailer Facility
902 South 7th Street
Phoenix, Arizona

DRAWN BY: CADD Research, Inc.
APPROVED BY:
FILE #: 2961A
DATE DRAWN: 6/06/01
DATE APPROVED:



LEGEND

Fence Line

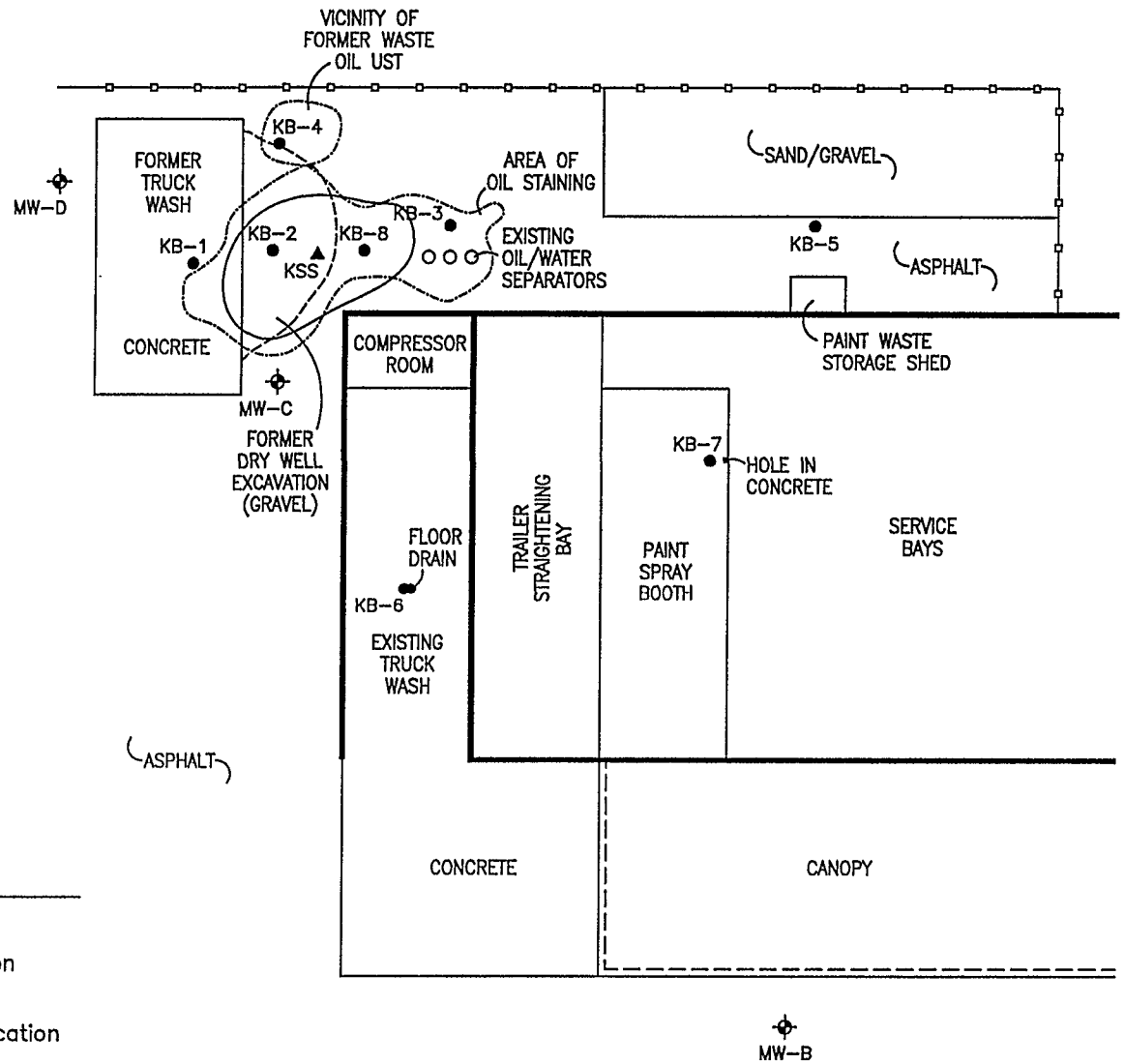
0' 15' 30'

Approximate Scale

KERAMIDA Environmental, Inc.

Figure 3
Site Detail Map
Fruehauf Trailer Facility
902 South 7th Street
Phoenix, Arizona

DRAWN BY: CADD Research, Inc.
APPROVED BY:
FILE #: 2961A
DATE DRAWN: 6/06/01
DATE APPROVED:



LEGEND

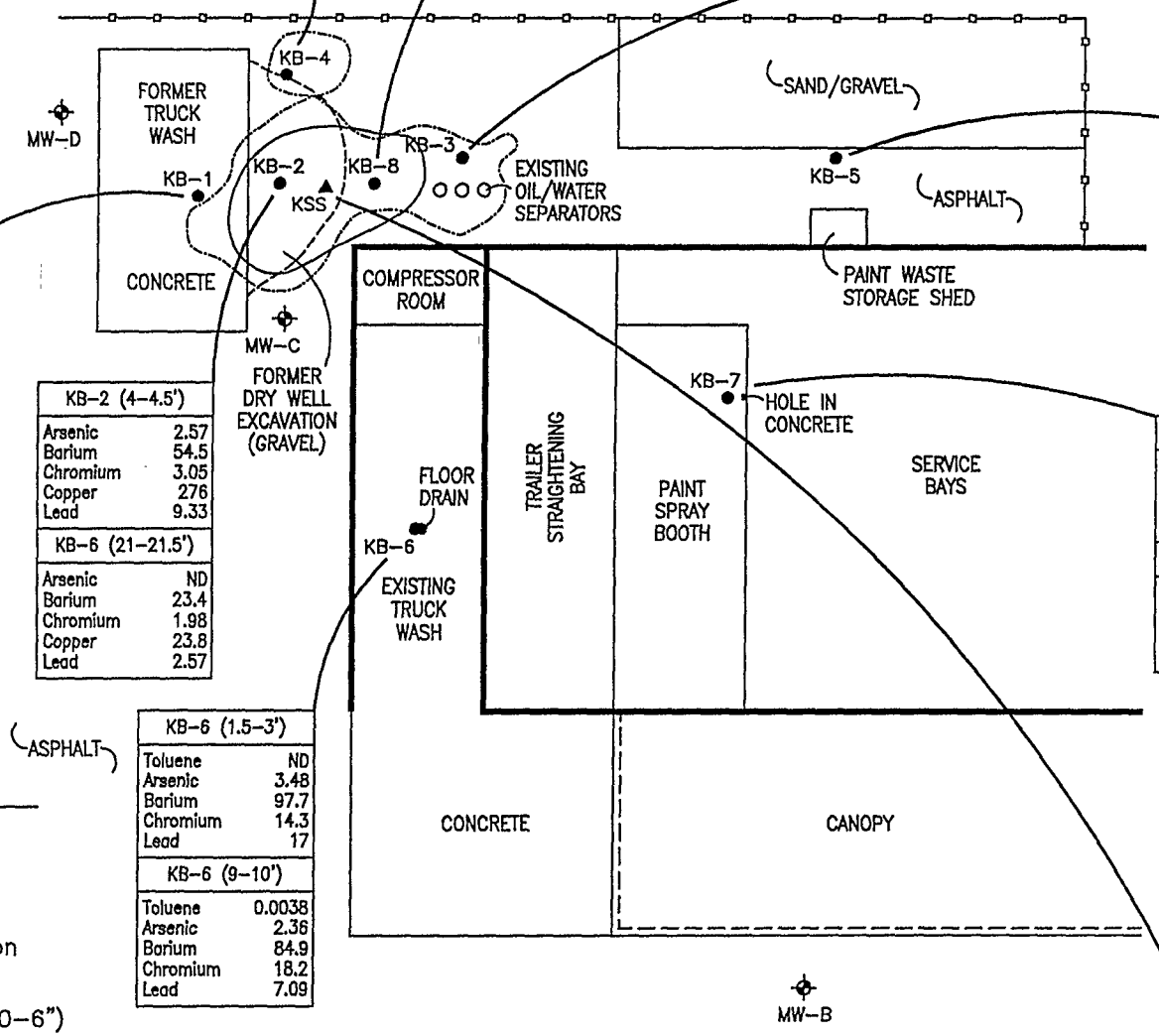
- Fence Line
- ● Soil Boring Location
- KB-1 Soil Boring ID
- ⌖ Monitoring Well Location
- MW-A Monitoring Well ID
- ▲ Surface Soil Sample (0-6")
- KSS Surface Soil ID

0' 15' 30'
Approximate Scale

KERAMIDA Environmental, Inc.

Figure 4
Soil Boring Location Map
Fruehauf Trailer Facility
902 South 7th Street
Phoenix, Arizona

DRAWN BY: CADD Research, Inc.
APPROVED BY:
FILE #: 2961A
DATE DRAWN: 6/06/01
DATE APPROVED:



KB-1 (0.5–1.5')	
2, Methylnaphthalene	9.24
Acetone	0.082
sec-Butylbenzene	0.0153
Carbon Disulfide	0.0069
Ethylbenzene	0.0232
Isopropylbenzene	0.0074
4, Isopropyltoluene	0.0191
Naphthalene	0.0983
n-Propylbenzene	0.0211
Tetrachloroethene	0.0093
Toluene	0.0025
1,2,4 Trimethyl-benzene	0.0148
1,3,5 Trimethyl-benzene	0.0031
Xylenes	0.0079
PCB 1260	0.1562
Arsenic	4
Barium	66
Chromium	3
Copper	16.8
Lead	32.2

KB-1 (12–13.5')	
2, Methylnaphthalene	ND
Acetone	ND
sec-Butylbenzene	ND
Carbon Disulfide	ND
Ethylbenzene	ND
Isopropylbenzene	ND
4, Isopropyltoluene	ND
Naphthalene	ND
n-Propylbenzene	ND
Tetrachloroethene	ND
Toluene	ND
1,2,4 Trimethyl-benzene	ND
1,3,5 Trimethyl-benzene	ND
Xylenes	ND
PCB 1260	ND
Arsenic	2.72
Barium	49.9
Chromium	2.14
Copper	1.55
Lead	3.11

KB-4 (0–1.5')	
Acetone	0.0846
Arsenic	13.7
Barium	167
Chromium	30.1
Copper	31.6
Lead	18.5
Selenium	3.28

KB-4 (10.5–11.5')	
Acetone	ND
Arsenic	6.16
Barium	77.7
Chromium	16.3
Copper	7.95
Lead	4.18
Selenium	0.994

KB-8 (0.5–1.5')	
PCB 1260	0.0513
Arsenic	11.4
Barium	187
Chromium	28.1
Copper	24.3
Lead	41.6
Selenium	2.19

KB-8 (9–10')	
PCB 1260	ND
Arsenic	11.8
Barium	146
Chromium	28.2
Copper	49.7
Lead	29.6
Selenium	2.56

KB-3 (0.5–1.5')	
PCB 1260	0.045
Arsenic	2.37
Barium	40.7
Chromium	1.38
Copper	7.9
Lead	23.7
Selenium	0.122

KB-3 (10.5–12')	
PCB 1260	ND
Arsenic	8.95
Barium	68.1
Chromium	16.9
Copper	7.98
Lead	4.09
Selenium	ND

KB-5 (0–1.5')	
Arsenic	9.22
Barium	110
Chromium	34.5
Lead	4.12

KB-5 (10.5–11.5')	
Arsenic	8.09
Barium	74.4
Chromium	30.4
Lead	3.47

KB-2 (4–4.5')	
Arsenic	2.57
Barium	54.5
Chromium	3.05
Copper	276
Lead	9.33

KB-6 (21–21.5')	
Arsenic	ND
Barium	23.4
Chromium	1.98
Copper	23.8
Lead	2.57

KB-7 (1.5–3')	
Arsenic	10.9
Barium	515
Chromium	43.7
Lead	4,870

KB-7 (10.5–11.5')	
Arsenic	8.22
Barium	71.4
Chromium	30.7
Lead	6.46

KB-6 (1.5–3')	
Toluene	ND
Arsenic	3.48
Barium	97.7
Chromium	14.3
Lead	17

KB-6 (9–10')	
Toluene	0.0038
Arsenic	2.36
Barium	84.9
Chromium	18.2
Lead	7.09

KSS (0–6")	
1,2,4 Trimethylbenzene	0.94
1,3,5 Trimethylbenzene	0.51
Arsenic	16.9
Barium	176
Cadmium	3.78
Chromium	33.8
Copper	6640
Lead	87.1
Selenium	3.78
Silver	2.58

LEGEND

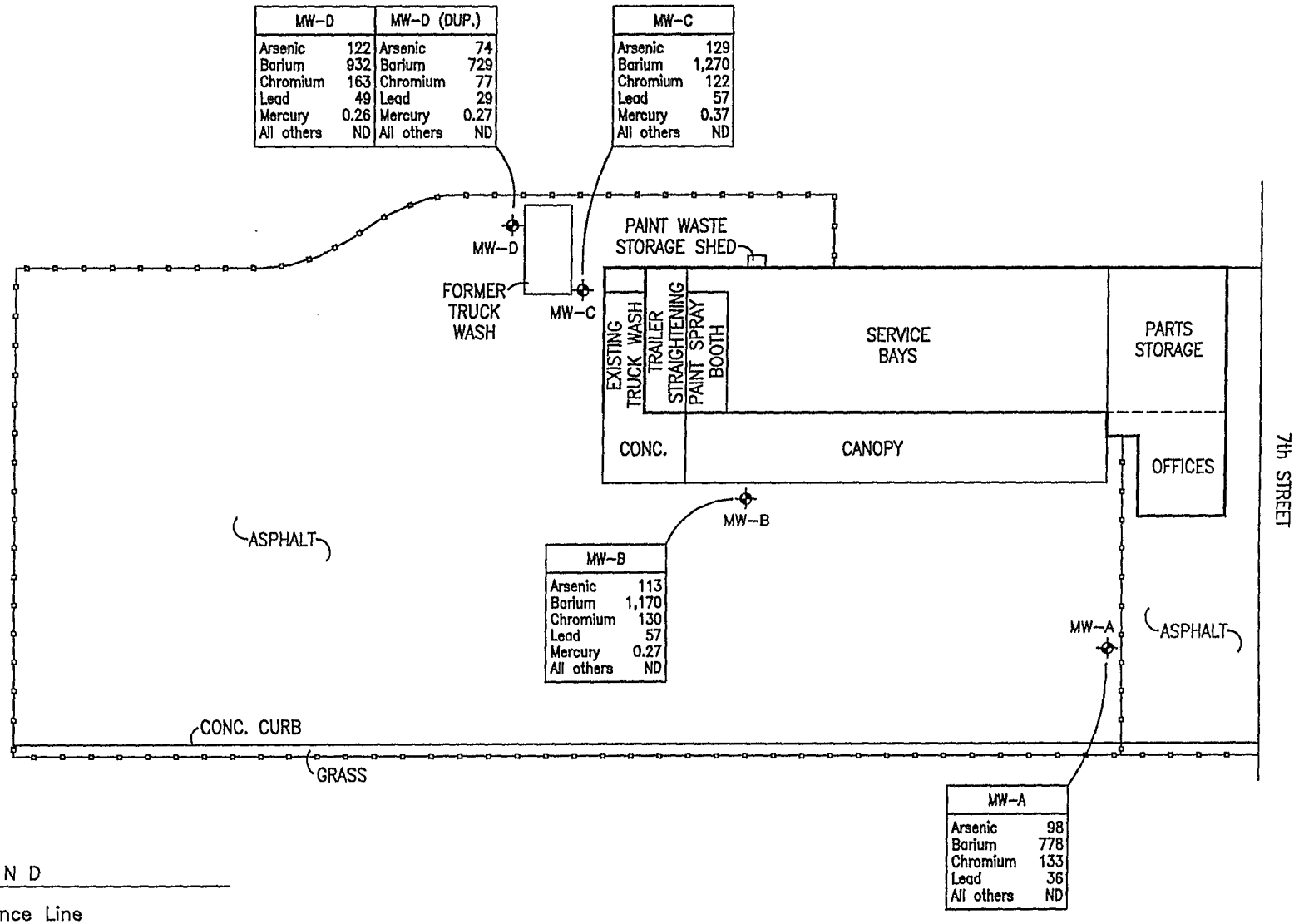
- Fence Line
- ● Soil Boring Location
- KB-1 Soil Boring ID
- Monitoring Well Location
- MW-A Monitoring Well ID
- ▲ Surface Soil Sample (0–6")
- KSS Surface Soil ID

Results in milligrams per kilogram (mg/kg)

KERAMIDA Environmental, Inc.

Figure 5
Soil Sample Analytical Results Map
Fruehauf Trailer Facility
902 South 7th Street
Phoenix, Arizona

DRAWN BY: CADD Research, Inc.
APPROVED BY:
FILE #: 2961A
DATE DRAWN: 6/08/01
DATE APPROVED:



LEGEND

Fence Line

Monitoring Well Location

MW-A Monitoring Well ID

Results in micrograms per liter (µg/L)

0' 40' 80'

Approximate Scale

KERAMIDA Environmental, Inc.

Figure 6
Groundwater Analytical Results Map
Fruehauf Trailer Facility
902 South 7th Street
Phoenix, Arizona

DRAWN BY: CADD Research, Inc.
APPROVED BY:
FILE #: 2961A
DATE DRAWN: 6/08/01
DATE APPROVED:

2

STANDARD OPERATING PROCEDURES
FOR
NOTE TAKING AND LOG BOOK ENTRIES

REVISED: June 12, 2001

PREPARED BY:

KERAMIDA ENVIRONMENTAL, INC.
330 North College Avenue
Indianapolis, Indiana 46202
317/685-6600

MATERIALS

Permanently bound log book (no spiral-bound log books)
Black ballpoint pen (waterproof ink)

PROCEDURES

1. Use black ballpoint pen with waterproof ink. Felt-tip pens should not be used. If weather conditions do not allow use of ballpoint pen, use pencil but note reason.

2. Reserve the inside front cover for business cards from key personnel who visit the site (including the person in charge of the log book).

3. On the first page of the log book, place a return for reward notice, KERAMIDA's phone number, and the project manager's name.

4. Enter the following information on the second page of the log book: project name, project number, project manager's name, on-site contacts, on-site telephone number and address; telephone numbers for all key personnel, and emergency fire and medical telephone numbers.

5. Number each page, initial each page, and put the date at the top of each page. Start a new page for each day. At the end of a day, summarize the day's activities, sign the page, and put a slash through the rest of the blank lines. Start the next day on a new page.

6. Enter the time (in military time, e.g., 0830) in the left column of each page when an entry is recorded in the field notebook.

7. If a mistake is made in an entry, cross out the mistake with one line and initial the end of the line.

8. At all times, maintain the chain of custody on the field log book.

CONTENT

1. Be sure that log book entries are LEGIBLE and contain accurate and inclusive documentation of project field activities.

2. Provide sufficient detail to enable others to reconstruct the activities observed.

3. Thoroughly describe all field activities while on-site. Be objective, factual and thorough. *Language should be free of personal feelings or other terminology that might prove inappropriate.*

4. Describe problems, delays, any unusual occurrences such as wrong equipment or breakdowns along with the resolutions and recommendations that resulted.

5. Fully document any deviations from or changes in the workplan.

6. Describe the weather and changes in the weather, particularly during sampling events.

7. Sketch a map of the facility or area on-site where activities are occurring, especially the location of sampling points.

8. During sampling activities, record all information pertaining to the sampling event. Include descriptive locations and diagrams of the sample locations, time, sample media, analysis, sampling procedure, equipment used, sizes and types of containers, preservation and any resulting reactions, sampling ID (especially for duplicate samples), shipping procedures (record airbill numbers), and addresses.

9. Note documentation or disposal procedures for all equipment, samples and protective clothing and how effectively each is performed.

10. If possible, photograph all sample locations and areas of interest. Maintain a photographic log in the field log book and include:

    Date, time, photographer, name of site, general direction faced, description of the subject taken, and sequential number of the photograph and the roll number.

11. Record the names and affiliations of key personnel on-site each day.

12. List all field equipment used and record field measurements, including distances, monitoring and testing instrument readings (e.g., PID, OVA, pH, conductivity, model numbers, etc.), and calibration activities.

13. Record proposed work schedules and changes in current schedules in the log book.

14. Describe site security measures.

\kei\forms\sop\ntlbe.doc

STANDARD OPERATING PROCEDURES
FOR
PERCUSSIVE DRILLING SAMPLE RETRIEVAL

REVISED: August 1, 2000

PREPARED BY:

KERAMIDA ENVIRONMENTAL, INC.
330 North College Avenue
Indianapolis, Indiana 46202
317/685-6600

KERAMIDA ENVIRONMENTAL, INC.
STANDARD OPERATING PROCEDURES
FOR
PERCUSSIVE DRILLING SAMPLE RETRIEVAL

Sampling Procedures and Techniques

Soil borings are emplaced using Geoprobe® or similar percussive-type drilling technology. Soil from the borings is discretely sampled using either a 2-inch diameter, 4-foot long or a 1.5-inch diameter, 2-foot long stainless steel sampler equipped with dedicated, disposal plastic liners. Encountered groundwater is sampled using a 2-inch diameter tool equipped with a 1-inch diameter, 41-inch lens, stainless steel screen. A temporary 1-inch diameter, 5-feet, PVC screen within PVC riser may be used in soils where sample volume may be limited.

Upon completion of the sampling activities, the boreholes are filled with bentonite chips to prevent the migration of surface materials into the subsurface, and the surfaces of the borings are capped with concrete or asphalt patch (if necessary).

\kei\forms\sop\pdsr

STANDARD OPERATING PROCEDURES
FOR
DECONTAMINATION OF WATER LEVEL INDICATORS

REVISED: August 4, 2000

PREPARED BY:

KERAMIDA ENVIRONMENTAL, INC.
330 North College Avenue
Indianapolis, Indiana 46202
317/685-6600

MATERIALS

Distilled water
Paper towels
(2) 5-gallon buckets

DECONTAMINATION PROCEDURE

Field sampling equipment should be decontaminated prior to and after each use to minimize the potential for cross-contamination.

1. Mix solution of nonphosphatic detergent and distilled water in a one bucket and fill a second bucket with distilled water.

2. Wipe tape and probe with a wet paper towel to remove gross contamination. If necessary use solvents (isopropanol) to remove gross contamination.

3. Completely submerge the tape and probe in the nonphosphatic detergent and distilled water solution. Aggegate for best results. If necessary, repeat the procedure or replace the paper towels as they become soiled.

4. Remove the tape and probe and submerge into the second bucket of distilled water. Wind tape directly on the spool from the distilled water.

5. If persistent stains or oily films are present on the tape, apply pesticide-grade isopropanol to a paper towel and wipe tape until clean. Because solvents can damage the water level indicator tape, the type must be thoroughly rinsed with deionized water and wiped dry with a clean paper towel. Allow tape to completely air dry. If step 5 is necessary, repeat steps 1 through 4. If step 5 is necessary, report steps 1 through 4.

6. Place water level indicator in the clean carrying case or in a clean plastic bag to prevent contamination during transportation to the next location.

7. Place used towels in the designated field trash container for proper disposal.

\kei\forms\sop\dowli.doc

STANDARD OPERATING PROCEDURES
FOR
FIELD SCREENING OF SOIL SAMPLES

REVISED: February 19, 2001

PREPARED BY:

KERAMIDA ENVIRONMENTAL, INC.
330 North College Avenue
Indianapolis, Indiana 46202
317/685-6600

FIELD STANDARD OPERATING PROCEDURES
FIELD SCREENING OF SOIL SAMPLES

The soil samples collected for field screening and possible laboratory consideration should be classified in the field for lithology, moisture content, odor, staining and any other significant characteristics upon collection. After classification, soil samples collected for contaminant screening are split into two equal portions in sealed plastic bags. If organic compounds are suspected, one plastic bag is allowed to volatilize for approximately ten minutes. If the air temperature is below approximately 40°F, the bag is placed under the heater of the field vehicle. The second bag is immediately placed on ice in a cooler for potential lab analysis.

The samples are field screened using a photoionization detector (PID) or a flame-ionization detector (FID) depending on the suspected contaminants. FID instruments are more sensitive to the presence of heavier organic compounds such a polynuclear aromatic hydrocarbons. The selected instrument is properly calibrated in accordance with the methods presented in its respective operations manual. At a minimum, the instrument should be "bump checked" once per day. The samples are field screened by inserting the PID or FID's probe into the plastic bag, while the bag remains closed. The readings are recorded in the field log book.

Samples selected for lab analysis based on field screening, are transferred to appropriate, labeled, lab-provided containers. The samples selected for laboratory analyses should remain in the cooler, maintaining a temperature of 4°C., until delivery to the selected laboratory with all proper chain-of-custody documentation. Detailed project notes are entered in the field logbook per KERAMIDA's Field Logbook SOP.

STANDARD OPERATING PROCEDURES
FOR
THERMO ENVIRONMENTAL 580B PHOTOIONIZATION DETECTOR
CALIBRATION PROCEDURE

REVISED: June 12, 2001

PREPARED BY:

KERAMIDA ENVIRONMENTAL, INC.
330 North College Avenue
Indianapolis, Indiana 46202
317/685-6600

Thermo Environmental 580B Photoionization Detector
Calibration Procedure

The PID must be calibrated on a daily basis prior to use, and at any time during the day if the field readings are suspect. The calibration information must be noted in the field logbook per KERAMIDA's Field Logbook SOP.

The procedures listed below are valid for both cylinder and bag standards. The sequence requires both zero gas and span gas to be used. Span gas can be either contained as a cylinder or bag, in either case the exact concentration used must be known. This concentration will be entered to the 580 when the program provides its entry. With respect to zero gas, there are several choices. Either a certified zero air standard in a cylinder or a charcoal scrubber can be used. Another approach which could be used in an emergency is to use room air unscrubbed. Caution must exercised when room air is used.

Prior to calibration or using the equipment in the field, ensure that the battery is fully charged and in good condition. In the event the batteries are leaking, please return to the manufacturer for maintainence.

Calibration Routine

1. Power-up instrument. In the field use battery power and in the office use the power plug.

2. Depress ON/OFF key to ignite the lamp and initiate the sample pump.

3. Depress Mode/Store key.

4. Depress -/CRSR key in response to Log this value? prompt.

5. Depress -/CRSR key to select Parameters Mode from the Main Menu.

6. Depress +/INC key to advance thru the Run Mode selection parameter prompt.

7. Depress +/INC key to advance thru the Auto Logging Mode selection parameter prompt.

8. Depress +/INC key to advance thru the Average Time selection parameter prompt.

9. Depress +/INC key to advance thru the Alarm Setting paramater prompt.

10. Depress +/INC key to advance thru Lamp Selection parameter prompt.

11. Depress +/INC key to advance thru Response Factor Setting parameter prompt.

12. Depress Response key to initiate calibration sequence.

13. Depress Reset -/CRSR key to decline restoration of the backup calibration.

Connect outlet of calibration tubing assembly to the Model 580B Detector Inlet.

14. Introduce zero air to Model 580B by opening flow regulator or attaching the carbon scrubber unit.

15. Depress Reset key to "zero" Model 580B.

16. Close flow regulator or remove the carbon scrubber unit.

17. Span calibration assumes that a span gas of 250 ppm isobutlyene is being used.

18. Simultaneously depress Reset and -/CRSR keys to activate the movable cursor.

19. Repeat step 18 until the cursor is at the ones place.

20. Simultaneously depress Reset and +/INC keys to increment the ones place value.

21. Repeat step 20 until the ones place value reads 0.

22. Repeat step 18 to move cursor to the tens place.

23. Repeat step 20 until the tens place value reads 5.

24. Repeat step 18 to move cursor to the hundreds place.

25. Repeat step 20 until the ones place value reads 2.

26. Repeat step 18 to move cursor to the thousands place.

27. Repeat step 20 until the ones place value reads 0.

28. The LCD should now read:

29. Span PPM = 0250
" + " to Continue

30. Depress +/INC to accept the span concentration value.

31. Connect isobutylene cylinder (250 ppm) to calibration tubing assembly.

32. Connect outlet of calibration tubing assembly to the Model 580B detector inlet.

33. Introduce isobutylene standard to Model 580B by opening flow regulator.

34. Reset key to "calibrate" Model 580B.

35. Depress +/INC key in response to "Reset" to calibrate message.

36. Depress Mode/Store to return to the Run Mode.

The instrument is now calibrated and ready to take measurements. Additional information on the 580B PID is available in the manufacturers service manual.

\kei\forms\sop\pidsop.doc

STANDARD OPERATING PROCEDURES
FOR
MONITORING WELL SAMPLING

REVISED: June 12, 2001

PREPARED BY:

KERAMIDA ENVIRONMENTAL, INC.
330 North College Avenue
Indianapolis, Indiana 46202
317/685-6600

MATERIALS LIST

Sampling notebook
Groundwater monitoring data log forms
Well key
Adjustable wrench or manhole wrench
Plastic sheeting
Photoionization detector (PID) of Flame-ionization detector (FID)
Flashlight or mirror
Electronic water level indicator and oil/water interface probe
Bailer(s)
Pump (for purging), polyethylene tubing, and battery
Buckets
Nylon or polyethylene rope or monofilament
pH, conductivity, and temperature meters
Sample bottles, labels, indelible markers, and clear tape
Ice and coolers
Geopump
0.45-micron filters (for dissolved metals analysis)
Teflon and polyethylene tubing
Pocketknife or scissors
Proper personal protective equipment (PPE)
Nitrile gloves
Vinyl gloves
Decontamination supplies (Deionized water, Alconox, brushes, bucket, and paper towels)
Toolbox (Wrenches, screwdrivers, and hammer)

SAMPLE COLLECTION

1. Verify locations of wells and parameters to be analyzed as specified in the sampling plan.

2. Prepare field log book in accordance with SOP for Note Taking and Log Book Entries, and include a description of site, weather, participants, and other relevant observations.

3. Complete the groundwater monitoring data log (Figure 1) for each monitoring well or sampling point.

4. Using Level C protection, unless historical data allows downgrading to Level D protection equipment, survey around the base of the well and wellhead with a PID; remove well cap, place probe of PID in wellhead, and record PID response in field book.

Survey breathing zone to ensure that the level of personal protection is appropriate. Note observations on the groundwater monitoring data log.

5. Inspect water surface in the well, using a flashlight if necessary. Note any observable floating contaminants and record observations in the field book.

6. Measure and record the extent of protrusion of the top of the well casing above the ground. If well is a flush mount, measure and record the depth of the top of the well casing below the ground. Measure the casing inside diameter (CID) and record in inches.

WATER LEVEL MEASURMENTS

7. Liquid-level measurements and well sampling should start with the upgradient (or clean wells) and proceed downgradient (in the order from least to most contaminated) for the remaining monitoring wells.

8. From the top of the casing, measure the depth (in feet) to water (DTW) with an electronic water level indicator and record on the groundwater monitoring data log. Static water level measurements must be recorded from the surveyor's mark at the top of the casing, if present. If no mark is present, mark a location with a metal file or indelible marker on the casing for future reference. Measure and record in feet the total depth (TD) to the bottom of the well (TD). All well depth measurements should be taken to the nearest hundredth (0.01) of a foot.

9. Check for the presence and thickness of light non-aqueous phase liquids (LNAPLs) and dense non-aqueous phase liquids (DNAPLs) using a free product/water interface probe in accordance with the RCRA Groundwater Monitoring Technical Enforcement Guidance Document (September 1986).

10. Calculate the volume of water in gallons in one well casing:

    For a 2-inch well:

    $$vol = [(TD - DTW) * 0.16]$$

    For a 4-inch well:

    $$vol = [(TD - DTW) * 0.65]$$

    For a 6-inch well:

    $$vol = [(TD - DTW) * 1.47]$$

    or calculate the volume using the formula:

    $$vol = 0.04\ d^2h$$

    where:

    $h = TD - DTW$ in feet

    d = diameter of well in inches

WELL PURGING

11. Remove at least three well volumes to purge the well before sampling. To determine the number of gallons required to purge the well, multiply the number of gallons in one well volume (calculations above) by three. Record the minimum purge volume on the groundwater monitoring data log.

12. Assess for the presence of LNAPL by carefully lowering the bailer into the well taking care to prevent the bailer from sinking below the water surface. Remove bailer and inspect it for LNAPL. If required by the sampling plan, secure samples of the LNAPL for analysis and put the samples on ice.

13. Continue bailing at a uniform rate. Each time, empty the bailer into a calibrated container for measurement. After removing the minimum purge volume (at least three well volumes), dispose of the contents in an appropriate container for later disposal in compliance with federal and state laws.

14. A pump may be used in place of a bailer to purge wells when the situation warrants (see Table 1).

Table 4-1
Well Evacuation Equipment and its Uses

Method	Best Use
Peristaltic Pump (e.g., Geopump)	Water table within suction lift. Used on wells that require less than approximately 4 gallons of water for adequate evacuation. Good for slow recovery wells. Not recommended for volatile organic compound analysis.
Centrifugal Pump	Water table within suction lift on wells that have moderate to high recovery rates. Cannot be used for sampling.
Bailer (Teflon, PVC, polyethylene, or stainless steel)	On slow recovery wells and on wells where access is difficult.
4-inch Electric Submersible Pump	On wells where pump is permanently installed or deep, large diameter wells where use of low yield pumps not practical.
Bladder Type (e.g., Geotech, Well Wizard)	May be used to sample for volatile organic compound analysis. Water table below suction lift. Used when water level recovery rates are moderate to high.

15. If a well is bailed dry before removing three well volumes, allow well to recharge and proceed to sample. Wells will not be bailed dry if doing so will cause recharge water to enter the well in a cascading fashion, but instead will be bailed at a rate which will minimize the agitation of recharged water. If full recovery exceeds 2 hours, sample as soon as sufficient volume is available.

SAMPLE COLLECTION

16. All samples should be collected using a bailer unless an alternate method (i.e., bladder pump) is specified in the SAP or QAPP.

17. While collecting samples, lower the bailer slowly to avoid agitating the water. Sample first for VOCs, taking care to remove all air bubbles from the vial and minimize agitation. Collect remaining organic samples then inorganic samples.

19. The recommended order of sample collection is as follows:

    In-situ measurements (e.g., temperature, pH, specific conductance)
    Field test kits (e.g., ferrous iron, hydrogen sulfide)
    Volatile organic analytes (VOA)
    Total organic halides (TOX)
    Total organic carbon (TOC)
    Semi-volatile organic analytes (SVOA)
    Total metals
    Dissolved metals
    Phenols
    Cyanide
    Sulfate and chloride
    Turbidity
    Nitrate and ammonia
    Radionuclides

20. Affix a sample label to each sample container and complete all required information (sample no., date, time, sampler's initials, analysis, preservatives). Record sample number, well number, date, time, and the sampler's initials on the sample tracking form and in the field book. Complete chain-of-custody forms with appropriate sampling information.

21. Inspect the well for soundness of protective casing and surface ground seal. Record water color, suspended particulates, discoloration of casing, casing diameter and material, any unusual occurrences during sampling, and any pertinent weather details on the groundwater monitoring data log.

22. Thoroughly decontaminate all non-dedicated and non-disposable equipment using the SOP for Decontamination of Sampling Equipment. Discard used bailer cord, disposable bailer, plastic sheeting, towels, gloves, etc., in a plastic bag.

FILTERING OF METAL SAMPLES

A. Assemble Geopump peristaltic pump per operating manual instructions, which accompany pump.

B. Silicon tubing is to be used only through the head of the peristaltic pump.

C. At the pump intake, attach polyethylene tubing to the silicon tubing. The polyethylene tubing should be long enough to extend to the bottom of the bailer. At the pump discharge end of the pump, attach the 0.45-micron filter to the Silicon tubing.

D. Turn on the pump and draw the water from the bailer, through the pump and filter, and into the sample container.

E. Disassemble the pump head and discard the polyethylene and silicon tubing in a plastic bag.

STANDARD OPERATING PROCEDURES
FOR
DECONTAMINATION OF SAMPLING EQUIPMENT

REVISED: January 4, 2001

PREPARED BY:

KERAMIDA ENVIRONMENTAL, INC.
330 North College Avenue
Indianapolis, Indiana 46202
317/685-6600

MATERIALS

Tap water
Deionized or distilled water
10% nitric acid solution (mixed in squirt bottle)
Scrub brushes (short- and long-handled)
buckets or trash cans
Nonphosphate detergent (Liquinox or Alquinox)
Pesticide-grade solvent (isopropanol, acetone, or hexane in spray bottle)
Aluminum foil
Polyethylene plastic sheeting, plastic garbage bags, and Ziploc® plastic bags
Paper towels or Kimwipes®
Nalgene squirt bottles
Wire brush
Duct tape
Personal protective equipment (e.g., nitrile gloves, eye protection, skin protection)

Note: All sampling equipment must be decontaminated before shipment to the office.

LABORATORY DECONTAMINATION PROCEDURES

Equipment Used for Sampling Environmental Media Containing Organic or Inorganic Compounds and Metals.

1. Place polyethylene sheeting on firm, flat surface to collect spillage during decontamination. Mix solution of nonphosphate detergent and tap water in bucket.

2. Wear appropriate personal protective equipment to present exposure to skin, eyes, and respiratory system.

3. Wipe contaminated sampling equipment with paper towels to remove residual soils or gross contamination. Heavy oils or grease may be removed with paper towels soaked with solvent (acetone or methanol).

4. Disassemble sampling equipment (e.g., split-spoon samplers, bailers). Wash equipment thoroughly with nonphosphate soap and hot tap water solution. Teflon bailers must be disassembled and the inside washed with long-handled bottle brush or short-handled brush pulled through the bailer with rope.

5. Rinse the equipment with hot tap water.

6. If the equipment will be used to collect samples for metals analysis, follow tap water rinse with a 10% nitric acid solution rinse. Metal equipment (e.g., bucket augers) should not be rinsed with nitric acid solution because of problems with oxidizing the metal

surfaces. Collect the nitric acid rinse in a separate bucket. Rinse the equipment with tap water.

7. Thoroughly rinse the equipment with deionized water.

8. Spray the equipment with solvents (acetone or methanol followed by hexane) and allow to completely air dry. The solvent equipment rinse must be collected in a separate bucket.

9. Rinse the equipment with analyte-free water using at least five times the volume of solvent used in the previous step.

10. After the equipment has been allowed to completely air dry, each piece must be individually wrapped with aluminum foil (shiny side out), and then wrapped in plastic. **Note: Decontamination solvents may introduce contaminants to environmental samples.** It is very important to ensure that the equipment has completely dried before wrapping the equipment for storage.

11. Label each piece of equipment with the date of decontamination, the initials of decontamination personnel, and the type of decontamination solutions used. This will allow other personnel to select the correct piece of sampling equipment for future use.

FIELD DECONTAMINATION

1. Field sampling equipment should be decontaminated prior to and after each use to minimize the potential for cross-contamination.

2. Place polyethylene sheeting on firm, flat surface (if available) to collect spillage during decontamination (when required). Mix solution of liquinox and distilled water in bucket. A liquinox and tap water solution can be used for push-probe sampling equipment.

3. Wear appropriate personal protective equipment to prevent exposure to skin, eyes, and respiratory system.

4. Wipe contaminated sampling equipment with paper towels to remove residual soils or gross contamination. If necessary, heavy oils or grease may be removed with paper towels soaked with solvent (acetone or methanol).

5. Disassemble sampling equipment (e.g., push-probe samplers, bailers). Wash equipment thoroughly with nonphosphate soap and distilled water (the water for push-probe equipment) solution. Teflon bailers must be disassembled and the inside washed with long-handled bottle brush or short-handled brush pulled through the bailer with rope.

6. Double rinse the equipment with distilled water (tap water for push-probe equipment).

7. Note any discrepancies from standard decontamination procedures in the project field notebook.

DISPOSAL OF DECONTAMINATION SOLUTIONS

Laboratory Solutions

Decontamination solutions (e.g., washwater, nitric acid rinsewater, and solvent rinsewater) must be handled appropriately. Nonphosphate wash water can be disposed of directly to the municipal sanitary sewer. Nitric acid rinsewater solution must be neutralized with baking soda, diluted to normal pH (i.e., 6.0 to 8.0) and disposed of in the sanitary sewer. Solvent rinsewater should be negligible because of the use of small amounts. Solvents should be allowed to evaporate in a well-ventilated area or under a laboratory hood. Paper towels soaked with solvent should be allowed to dry and be disposed of in a general waste container.

Field Solutions

Field decontamination presents unique problems in disposal of decontamination solutions. Nonphosphate wash water must be containerized and properly disposed of in the facility wastewater treatment system or otherwise in accordance with state and federal laws. The generation of solvent rinsewaters should be minimal in field decontamination. Solvents should be collected in separate buckets and allowed to evaporate.

Paper towels soaked with cleaning solvent should be allowed to air dry and be disposed of with solid waste. Under no circumstances should any decontamination solution be disposed of by pouring it on soil surfaces.

g:\sop\dose.doc

STANDARD OPERATING PROCEDURES
FOR
FIELD QUALITY ASSURANCE/QUALITY CONTROL SAMPLES

REVISED: January 4, 2001

PREPARED BY:

KERAMIDA ENVIRONMENTAL, INC.
330 North College Avenue
Indianapolis, Indiana 46202
317/685-6600

MATERIALS

Ice and cooler
Sample containers
Sample container labels
Indelible marker or pen
Clear tape
Laboratory deionized water
Non-phosphate detergent (Liquinox or Alconox)
Pesticide grade solvent (isopropanol, acetone, or hexane) in a spray bottle (optional, reference QAPP)
Clean sampling equipment
Chain-of-custody forms
Custody seals

PROCEDURES

1. Select the appropriate glassware for the field Quality Assurance/Quality Control (QA/QC) samples from those provided by the analytical laboratory. Refer to the KERAMIDA Standard Operating Procedure for Sample Container, Preservatives, and Holding Times to determine the appropriate bottles to use. As an alternative, contact the analytical laboratory for this information.

2. Field QA/QC samples can include the following:

trip blanks	field blanks
duplicate samples	matrix spike/matrix spike duplicates
equipment blanks	

3. Pre-prepared volatile organic compound (VOC) trip blanks should be provided by the analytical laboratory for all projects where VOCs are analytes. Trip blanks should accompany the sample bottles from the analytical laboratory to the site and accompany the sample containers at all times during the sampling event. One trip blank for each batch of samples, or for each day of sampling activities, should be submitted to the analytical laboratory for analysis of VOCs only.

4. One set of duplicate samples should be collected for every 10 samples of each matrix (e.g., soil and groundwater) collected during each independent sampling event. Duplicates should be collected by equally dividing the material (e.g., soil, sediment, ground water) into the two sample aliquots. Solids (e.g., soil) sample bottles should be filled by alternating between the two sample bottle sets. The procedures outlined in KERAMIDA's Standard Operating Procedure for collection of solids (e.g., soil) samples

should be followed. Groundwater duplicates should be collected by alternately filling the two sample bottle sets from the same sampling vessel (e.g., bailer). The procedures outlined in KERAMIDA's Standard Operating Procedure for collection of groundwater samples should be followed. Field duplicate samples should be analyzed for all the analytes that are being analyzed for during the sampling event. Reference the Sampling and Analysis Plan for a complete list of analytical parameters.

5. One equipment blank should be collected in the field at a rate of one per type of equipment per decontamination event not to exceed one per day. If dedicated sampling equipment is used, reference the QAPP for any site-specific equipment blank requirements. Typically equipment blanks are not necessary for this type of sampling. If field decontamination of sampling equipment is required, the equipment blanks should be prepared after the equipment has been used and field-decontaminated at least once. Equipment blanks should be prepared by filling or rinsing the precleaned equipment with analyte-free water (deionized) and collecting the rinsate in the appropriate sample containers. The samples should be labeled, preserved, and filtered (if required) in the same manner as the collected environmental samples. Equipment blanks should be analyzed for all the analytes that the environmental samples are being analyzed for. Decontamination of the equipment following equipment blank procurement is not required.

6. One field blank should be collected in the field at a rate of one per every 20 samples. Field blanks should be prepared by filling the appropriate sample container with deionized water. The samples should be analyzed for all the analytes that the environmental samples are being analyzed for. Reference the QAPP to determine the need for field equipment blanks.

7. All QA/QC samples should be submitted to the analytical laboratory with unique sample numbers. Therefore, the QA/QC samples and duplicate samples should be labeled as separate environmental samples following the same numbering scheme used during that particular sampling event. However, on KERAMIDA's copy of the chain-of-custody form and in the field notebook the QA/QC samples should be clearly identified. Reference the QAPP for the proper sample numbering scheme.

NOTE: These procedures may not be applicable for all circumstances. For instance, some states or EPA regions may have more stringent or different QA/QC requirements, which should be followed in those cases. Also, always check the QA/QC requirements for the specific program of interest (e.g., VRP, LUST). Reference the QAPP for any site-specific requirements.

g:\sop\fqaqcs.doc

STANDARD OPERATING PROCEDURES
FOR
SAMPLE CONTAINER, PRESERVATIVES, & HOLDING TIMES

REVISED: January 4, 2001

PREPARED BY:

KERAMIDA ENVIRONMENTAL, INC.
330 North College Avenue
Indianapolis, Indiana 46202
317/685-6600

SCOPE

This operating procedure describes the ways and means of selecting the appropriate sampling containers for environmental sampling.

APPLICATION

The purpose of this procedure is to assure that sample volumes and preservatives are sufficient for analytical services required under EPA-approved protocols.

MATERIALS

Sample containers
Sample container labels
Indelible (waterproof) markers or pens
Clear tape
Ice and cooler

PROCEDURES

1. Refer to Table 1 for minimum sample volume and glassware types required for sampling a particular matrix and compound class.

2. Select the appropriate glassware (i.e., bottles or jars) from those provided by the analytical laboratory. Verify that the analytical laboratory has provided the correct number of sample containers and the correct preservatives for the project per the sampling plan requirements.

3. The analytical laboratory should always provide extra sample containers for all analytical parameters in case of breakage or other problems encountered in the field. This is particularly true for VOC sample containers (i.e., 40-ml vials).

4. Report any discrepancies or non-receipt of specific types of sample containers to the Quality Assurance Officer immediately. Arrangements should be made with the laboratory to immediately ship the missing or additional sampling containers to the project site.

5. Apply ESC sample labels to the sample containers.

6. Information on the sample labels should contain the following data:

Site/Project name
Project/Task number
Unique sample identification number
Sample date
Time of sample collection (military system, e.g., 0000 to 2400 hours)
Analytical parameters
Preservative
Sampling personnel

Table 1
Sample Containers, Preservatives, and Holding Times

Analytical Parameter	Matrix	Required Volume (mls)	Sampling Container Size and Type	Preservatives	Maximum Holding Time
Bacteria:					
Coliform, fecal		100	Sterile	Cool, 4 C	6 hours
Inorganics:					
Acidity		100	P, G	Cool, 4 C	14 days
Alkalinity		100	P, G	Cool, 4 C	14 days
Ammonia		500	P, G	4 C, H2SO4 pH <2	28 days
BOC		1000	P, G	Cool, 4 C	48 hours
CBOD		1000	P, G	Cool, 4 C	48 hours
COD		50	P, G	4 C, H2SO4 pH <2	28 days
Chloride		100	P, G	Cool, 4 C	28 days
Chlorine, Residual**		50	P, G	Cool, 4 C	24 hours
Color		100	P, G	Cool, 4 C	48 hours
Cyanide, Total & Amen.		1000	P, G	4 C, NaOH pH >12	14 days
Fluoride		100	P only	Cool, 4 C	28 days
Hardness, Total & Ca		50	P, G	HNO3 pH <2	6 months
pH		100	P, G	Cool, 4 C	24 hours
TKN		200	P, G	4 C, H2SO4 pH <2	28 days
Nitrate		50	P, G	Cool, 4 C	48 hours
Nitrate+Nitrite		50	P, G	4 C, H2SO4 pH <2	28 days
Nitrite		50	P, G	Cool, 4 C	48 hours
Odor		500	G only	Cool, 4 C	24 hours
Oil & Grease		1000	G only	4 C, H2SO4 pH <2	28 days
Ortho Phosphorus		250	P, G	Cool, 4 C	48 hours
Oxygen, Dissolved		no headspace	P, G	Cool, 4 C	24 hours
Phenol		500	P, G	4 C, H2SO4 pH <2	28 days

Table 1 (continued)
Sample Containers, Preservatives, and Holding Times

Analytical Parameter	Matrix	Required Volume (mls)	Sampling Container Size and Type	Preservatives	Maximum Holding Time
Phosphorus, Total		100	P, G	4 C, H2SO4 pH <2	28 days
Solids, Total		100	P, G	Cool, 4 C	7 days
Solids, Dissolved		100	P, G	Cool, 4 C	7 days
Solids, Suspended		100	P, G	Cool, 4 C	7 days
Solids, Settleable		1000	P, G	Cool, 4 C	48 hours
Solids, Volatile		1000	P, G	Cool, 4 C	7 days
Silica		100	P only	Cool, 4 C	28 days
Specific Conductance		200	P, G	Cool, 4 C	28 days
Sulfate		200	P, G	Cool, 4 C	28 days
Sulfide		200	P, G	NaOH + ZnAc	7 days
Surfactants (MBAS)		500	P, G	Cool, 4 C	48 hours
Turbidity		100	P, G	Cool, 4 C	48 hours
Metals:					
Hex. Chromium		100	P, G	Cool, 4 C	24 hours
Mercury		100	P, G	HNO3 pH <2	28 days
All Other Metals		200	P, G	HNO3 pH <2	6 months
Organics:					
*Acrolein/Acrylonitrile		no headspace	3 G vials	Cool, 4 C pH 4-5	14 days
Acid Extractables		1000	G Teflon	Cool, 4 C	7 day extension
Base Neutrals		1000	G Teflon	Cool, 4 C	7 day extension
PCBs		1000	G Teflon	Cool, 4 C	7 day extension
Pesticides		1000	G Teflon	Cool, 4 C	7 day extension
Herbicides		1000	G Teflon	Cool, 4 C	7 day extension
Volatiles		no headspace	3 G vials	4 C, HCl pH <2	14 days
Volatiles		no headspace	3 G vials	Cool, 4 C, no pres.	7 days

7. Once sample containers are properly labeled, the sample labels should be wrapped with clear tape to prevent deterioration of sample level.

8. Proceed with the sample collection per the sampling plan requirements.

9. Collected samples should be immediately placed in an iced cooler to maintain as close as possible a 4°F atmosphere for shipment to the analytical laboratory. Follow sample shipping procedures detailed in Sample Shipping Standard Operating Procedures.

10. Recommended order of sample collection:

    In-situ measurements (e.g., temperature, pH, specific conductance)
    Volatile organic analytes (VOA)
    Purgeable organic carbon (POC)
    Purgeable organic halogens (POX)
    Total organic carbon (TOC)
    Extractable organics
    Total petroleum hydrocarbons (TPH)
    Total metals
    Dissolved metals
    Microbiologicals
    Phenols
    Cyanide
    Sulfate and chloride
    Turbidity
    Nitriate and ammonia
    Radionuclides

g:\sop\scpht.doc

KERAMIDA ENVIRONMENTAL, INC.
GROUNDWATER SAMPLE INFORMATION SHEET

Facility Name: _____ KEI Project #: _____
Sample I.D.: _____ Well Location: _____

Monitoring Well Data
Well Material (PVC/SS/Teflon)
Inside Diam., in. (1 2 4 6)

Stick up or stick down height	ft
Total depth of well (TD)	ft
Depth to product	ft
Depth to water (DTW)	ft
Height of water column (H = TD-DTW)	ft
Conversion value (CV)	x
1 Well volume = H x CV	= gal
3 Well volumes =	
Actual volume purged =	

Time Purged: ____:____ to ____:____

Purge method: circle one
BAILER: polyethylene (3' length, 1.5" dia.)
Other: _____
PUMP: 12V Downwell centrifugal pump
Geopump© peristaltic pump
Other: _____

⇒ Conversion values
1" diameter well = 0.04 gal/ft
2" diameter well = 0.16 gal/ft
4" diameter well = 0.65 gal/ft
6" diameter well = 1.47 gal/ft

Field Test(s) Performed	Result
Temperature (°C)	_____
Spec. Cond (μmhos)	_____
D.O. (mg/L)	_____
PH	_____
ORP (mV)	_____
Turbidity (NTU)	_____
H_2S (mg/L)	_____
Fe^{2+} (mg/L)	_____

Sample Types (circle all applicable)
Monitoring Well
Split Sample
Duplicate (Duplicate ID: _____)
MS/MSD
Other_____

Containers	HCl	HNO_3	H_2SO_4	NaOH	ZnAc	No Treat
1 L plastic						
1 L glass						
500 ml plastic						
250 ml plastic						
40 ml vial						
Other						

Observations:
Sample Date: ____/____/____ Sample Time: ____:____ (military time)
Was metals sample filtered prior to preservation? YES NO method: 0.45 μm cartridge / other:_____
Color of water before filtration:_____ After filtration:_____
Reaction upon addition of preservatives? YES NO explain :_____
Appearance of Water: (Clear/Slightly Turbid/Turbid/Very Turbid)
Well condition:

Signature:_____ Date:_____

3

KERAMIDA Environmental, Inc.	LOG OF BORING KB-1 (Page 1 of 1)

Wabash National LLC Fruehauf Trailer Facility 902 South 7th St Phoenix, Az KERAMIDA Project No. 2961A	Project ID : 2961A Date Drilled : 5/21/01 Drilling Method : HSA Geologist/Tech : Brian Harrington Drilling Co : Yellow Jacket	General Location	: Former Wash Rack : Area

Depth in feet	USCS	GRAPHIC	DESCRIPTION	Samples	Rec %	PID ppm	REMARKS
0			Concrete			112	
	FL		Gravelly FILL, 1" strong petro odor,	1	65	56	
						6.1	
	CL		Slightly Sandy Silty CLAY, 7.5YR 4/4, slightly moist			63	
				2	70	8.6	
			As Above			3.7	
				3	70	12.8	
						4.3	
			As Above			3.7	
5				4	70	54	
						4.5	
			As Above			2.5	
				5	75	29	
						2.9	
						1.2	
	SP		Very Silty Fine SAND, 7.5YR 4/5, moist	6	75	5.1	
						1.0	
						0.8	
			Refusal	7			
10							
				8		3.2	
						2.0	
						ND	
				9		1.0	
						4.9	
						0.2	
				10		50	
						2	
15							

06-12-2001 G:\ØLDDIREC\BORINGLO\2961A\KB-1.BOR

KERAMIDA Environmental, Inc.	LOG OF BORING KB-2 (Page 1 of 1)

Wabash National LLC Fruehauf Trailer Facility 902 South 7th St	Project ID : 2961A Date Drilled : 5/21/01 Drilling Method : HSA	General Location	: In former dry wall : area adjacent to : former wash rack
Phoenix, Az KERAMIDA Project No. 2961A	Geologist/Tech : Brian Harrington Drilling Co : Yellow Jacket		

Depth in feet	USCS	GRAPHIC	DESCRIPTION	Samples	Rec %	PID ppm	REMARKS
0	FL		Silty Sandy Gravelly FILL, staining at surface 7.5YR 4/4, petro odor, moisture increases with depth, plastic liner encountered at approx. 19ft	1	90	ND ND .2	
				2	60	ND ND ND	
				3	40	ND ND 4.2	
5				4	65	3.2 1.8 ND	
				5	40	ND ND ND	
				6	65	ND ND ND	
10				7	30	ND ND ND	
				8	25	ND ND ND	
				9	30	ND ND ND	
15				10	40	ND ND ND	
				11	65	ND ND ND	
				12	0		
				13	12	ND ND ND	
20	GW		SAND AND GRAVEL, 7.5YR 4/4, wet	14	35	ND ND 0.6 2.1	
			Refusal	15	30		Groundwater sample collected for possible lab analysis (20-24')
				16			
25							

06-12-2001 G:ØLDDIREC\BORINGLO\2961A\KB-2.BOR

KERAMIDA Environmental, Inc.	LOG OF BORING KB-3 (Page 1 of 1)

Wabash National LLC
Fruehauf Trailer Facility
902 South 7th St
Phoenix, Az
KERAMIDA Project No. 2961A

Project ID : 2961A
Date Drilled : 5/21/01
Drilling Method : HSA
Geologist/Tech : Brian Harrington
Drilling Co : Yellow Jacket

General Location : North of O/W sep

Depth in feet	USCS	GRAPHIC	DESCRIPTION	Samples	Rec %	PID ppm	REMARKS
0			Asphalt				
	FL		Sandy Gravelly FILL	1	65	4.1	
	SP		Silty SAND with gravel, 7.5YR 4/4, dry to slightly moist				
	CL		Slightly Sandy Silty CLAY, 7.5YR 4/3, slightly moist	2	65	.8	
			As Above	3	75	.5	
			As Above	4	70	.6	
5			Sandy Silty CLAY, 7.5YR 4/3, slightly moist	5	95	ND	
	SP		Very Silty Fine SAND, 7.5YR 4/3, slightly moist	6	50	ND	
			As Above	7	95	ND	
10			As Above	8	60	ND	
			As Above			ND	
			Refusal	9	5		
15							

06-12-2001 G:\OLDDIREC\BORINGLO\2961A\KB-3.BOR

KERAMIDA Environmental, Inc.	LOG OF BORING KB-4 (Page 1 of 1)

Wabash National LLC
Fruehauf Trailer Facility
902 South 7th St
Phoenix, Az
KERAMIDA Project No. 2961A

Project ID : 2961A
Date Drilled : 5/21/01
Drilling Method : HSA
Geologist/Tech : Brian Harrington
Drilling Co : Yellow Jacket

General Location : Vicinity of former : waste oil UST

Depth in feet	USCS	GRAPHIC	DESCRIPTION	Samples	Rec %	PID ppm	REMARKS
0	FL		Gravel FILL				
	CL		Silty CLAY, 7.5YR 3/2, slightly moist	1	75	6.3	
			As Above, moist	2	75	.3	
			Silty CLAY, 7.5 YR 4/4, slightly moist	3	65	ND	
			As Above	4	75	ND	
5			As Above				
			Slightly Sandy Silty CLAY, 7.5YR 4/4, slightly moist	5	90	ND	
	SP		Silty Fine SAND, 7.5YR 4/4, slightly moist	6	50	ND	
			As Above, moist	7	90	ND	
10			As Above, moist to very moist	8	50	ND	
			Refusal	9	0		
15							

06-12-2001 G:ØLDDIRECIBORINGLO\2961A\KB-4.BOR

KERAMIDA Environmental, Inc.	LOG OF BORING KB-5 (Page 1 of 1)

Wabash National LLC Fruehauf Trailer Facility 902 South 7th St	Project ID : 2961A Date Drilled : 5/21/01 Drilling Method : HSA	General Location	: North of paint : waste shed
Phoenix, Az KERAMIDA Project No. 2961A	Geologist/Tech : Brian Harrington Drilling Co : Yellow Jacket		

Depth in feet	USCS	GRAPHIC	DESCRIPTION	Samples	Rec %	PID ppm	REMARKS
0	FL		Sandy Gravelly FILL, dry	1	20	ND	
	CL		Slightly Sandy Silty CLAY, 7.5YR 3/3, slightly moist Silty CLAY, 7.5YR 3/3, moist	2	20	ND	
			No recovery	3	0		
5	CL		Slightly Sandy Silty CLAY, 7.5YR 4/4, slightly moist	4	80	ND	
	SP		Very Silty Fine SAND, 7.5YR 4/4, slightly moist	5	80	ND	
			As Above	6	85	1.0	
			As Above, moist	7	85	ND	
10			As Above, moist				
	GW		Silty SAND AND GRAVEL, 7.5YR 4/4, moist	8	40	ND	
			Refusal				
				9	0		
15							

06-12-2001 G:ØLDDIRECIBORINGLO2961AIKB-5.BOR

KERAMIDA Environmental, Inc.	LOG OF BORING KB-6 (Page 1 of 1)

Wabash National LLC Fruehauf Trailer Facility 902 South 7th St Phoenix, Az KERAMIDA Project No. 2961A	Project ID : 2961A Date Drilled : 5/21/01 Drilling Method : HSA Geologist/Tech : Brian Harrington Drilling Co : Yellow Jacket	General Location	: Adjacent to floor : drain in new truck : wash

Depth in feet	USCS	GRAPHIC	DESCRIPTION	Samples	Rec %	PID ppm	REMARKS
0			Concrete				
	FL		Sandy Gravelly FILL, slightly moist	1	70	ND	
			Silty SAND with gravel FILL, 7.5Y 3/3, slightly moist	2	60	2.5	
			Slightly Sandy Silty CLAY FILL, 7.5YR 3/3, slightly moist	3	60	1.4	
			Sandy Gravelly Silty CLAY FILL	4	60	1.0	
5			As Above, brick fragments	5	50	1.0	
			No recovery	6	0		
	FL		Sandy Gravelly Silty CLAY FILL	7	40	1.0	
10	CL		Sandy Silty CLAY, 7.5Y 4/4, moist	8	0		
15							

06-12-2001 G:\ØLDDIREC\BORINGLO\2961A\KB-6.BOR

KERAMIDA Environmental, Inc.	LOG OF BORING KB-7 (Page 1 of 1)

Wabash National LLC
Fruehauf Trailer Facility
902 South 7th St
Phoenix, Az
KERAMIDA Project No. 2961A

Project ID : 2961A
Date Drilled : 5/21/01
Drilling Method : HSA
Geologist/Tech : Brian Harrington
Drilling Co : Yellow Jacket

General Location : Adjacent to hole
: in concrete in paint
: booth

Depth in feet	USCS	GRAPHIC	DESCRIPTION	Samples	Rec %	PID ppm	REMARKS
0			Concrete				
	FL		Gravelly FILL	1	60	.6	
	CL		Silty CLAY, 7.5YR 4/6, moist Silty Clay, 7.5Y 4/4, with brick fragments-(possibly coal), moist	2	60	1.4	
			Slightly Sandy Silty CLAY, 7.5Y 4/4, moist	3	60	.03	
			As Above	4	70	ND	
5			As Above	5	90	ND	
	SP		Very Silty Fine SAND, 7.5YR 4/4, moist	6	60	.4	
			As Above	7	90	.5	
10			As Above	8	60	.7	
15							

06-12-2001 G:ØLDDIREC\BORINGLOV2961A\KB-7.BOR

KERAMIDA Environmental, Inc.	LOG OF BORING KB-8 (Page 1 of 1)

Wabash National LLC Fruehauf Trailer Facility 902 South 7th St Phoenix, Az KERAMIDA Project No. 2961A	Project ID : 2961A Date Drilled : 5/21/01 Drilling Method : HSA Geologist/Tech : Brian Harrington Drilling Co : Yellow Jacket	General Location	: West of O/W sep : between KB-2 and : KB-3

Depth in feet	USCS	GRAPHIC	DESCRIPTION	Samples	Rec %	PID ppm	REMARKS
0			Asphalt				
	FL		Gravelly FILL				
	CL		Sandy Sitly CLAY with Gravel, 10YR 4/4, slightly moist	1	80	ND	
			Silty CLAY, 7.5YR 3/3, moist	2	100	ND	
			As Above, slightly moist to moist	3	75	ND	
5			As Above, moist	4	90	ND	
	SP		Very Silty Fine SAND, 7.5YR 4/4, moist	5	70	ND	
			As Above	6	75	ND	
			As Above, very moist				
	CL		Sandy Gravelly Silty CLAY, 7.5YR 3/3, moist	7	060	ND	
10			Blind drill, refusal at 11 ft				
				8	0		
15							

06-12-2001 G:\ØLDDIREC\BORINGLO\2961AIKB-8.BOR

4

TestAmerica
INCORPORATED

ANALYTICAL REPORT

RECEIVED
JUN 0 4 2001
KERAMIDA

KERAMIDA ENVIRONMENTAL 6028
KRISTEN BELLCREDI
330 N. COLLEGE AVENUE
INDIANAPOLIS, IN 46202

Lab Number: 01-A68595
Sample ID: KB-1 0.5-1.5
Sample Type: Soil
Site ID:

Date Collected: 5/21/01
Time Collected: 10:05
Date Received: 5/23/01
Time Received: 9:00

Project: 2961A
Project Name: FRUEHAUF-PHOENIX
Sampler: B.H.

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Date	Time	Analyst	Method	Batch
EXTRACTABLE ORGANICS										
Acenaphthene	ND	mg/kg	3.30	0.330	10	5/26/01	20:28	Jeanmarie	8270C	8348
Acenaphthylene	ND	mg/kg	3.30	0.330	10	5/26/01	20:28	Jeanmarie	8270C	8348
Anthracene	ND	mg/kg	3.30	0.330	10	5/26/01	20:28	Jeanmarie	8270C	8348
Benzo(a)anthracene	ND	mg/kg	3.30	0.330	10	5/26/01	20:28	Jeanmarie	8270C	8348
Benzo(a)pyrene	ND	mg/kg	3.30	0.330	10	5/26/01	20:28	Jeanmarie	8270C	8348
Benzo(b)fluoranthene	ND	mg/kg	3.30	0.330	10	5/26/01	20:28	Jeanmarie	8270C	8348
Benzo(g,h,i)perylene	ND	mg/kg	3.30	0.330	10	5/26/01	20:28	Jeanmarie	8270C	8348
Benzo(k)fluoranthene	ND	mg/kg	3.30	0.330	10	5/26/01	20:28	Jeanmarie	8270C	8348
4-Bromophenylphenylether	ND	mg/kg	3.30	0.330	10	5/26/01	20:28	Jeanmarie	8270C	8348
Butylbenzylphthalate	ND	mg/kg	3.30	0.330	10	5/26/01	20:28	Jeanmarie	8270C	8348
Carbazole	ND	mg/kg	3.30	0.330	10	5/26/01	20:28	Jeanmarie	8270C	8348
4-Chloro-3-methylphenol	ND	mg/kg	3.30	0.330	10	5/26/01	20:28	Jeanmarie	8270C	8348
4-Chloroaniline	ND	mg/kg	3.30	0.330	10	5/26/01	20:28	Jeanmarie	8270C	8348
bis(2-Chloroethoxy)methane	ND	mg/kg	3.30	0.333	10	5/26/01	20:28	Jeanmarie	8270C	8348
bis(2-Chloroethyl)ether	ND	mg/kg	3.30	0.333	10	5/26/01	20:28	Jeanmarie	8270C	8348
bis(2-Chloroisopropyl)ether	ND	mg/kg	3.30	0.333	10	5/26/01	20:28	Jeanmarie	8270C	8348
2-Chloronaphthalene	ND	mg/kg	3.30	0.333	10	5/26/01	20:28	Jeanmarie	8270C	8348
2-Chlorophenol	ND	mg/kg	3.30	0.333	10	5/26/01	20:28	Jeanmarie	8270C	8348
4-Chlorophenylphenylether	ND	mg/kg	3.30	0.333	10	5/26/01	20:28	Jeanmarie	8270C	8348
Chrysene	ND	mg/kg	3.30	0.333	10	5/26/01	20:28	Jeanmarie	8270C	8348
Dibenzofuran	ND	mg/kg	3.30	0.333	10	5/26/01	20:28	Jeanmarie	8270C	8348
Dibenz(a,h)anthracene	ND	mg/kg	3.30	0.333	10	5/26/01	20:28	Jeanmarie	8270C	8348
1,2-Dichlorobenzene	ND	mg/kg	3.30	0.333	10	5/26/01	20:28	Jeanmarie	8270C	8348
1,3-Dichlorobenzene	ND	mg/kg	3.30	0.333	10	5/26/01	20:28	Jeanmarie	8270C	8348
1,4-Dichlorobenzene	ND	mg/kg	3.30	0.333	10	5/26/01	20:28	Jeanmarie	8270C	8348

ample report continued . . .

TestAmerica
INCORPORATED

ANALYTICAL REPORT

Laboratory Number: 01-A68595
Sample ID: KB-1 0.5-1.5
Project: 2961A

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Date	Time	Analyst	Method	Batch
3,3'-Dichlorobenzidine	ND	mg/kg	3.30	0.330	10	5/26/01	20:28	Jeanmarie	8270C	8348
2,4-Dichlorophenol	ND	mg/kg	3.30	0.333	10	5/26/01	20:28	Jeanmarie	8270C	8348
Diethylphthalate	ND	mg/kg	3.30	0.333	10	5/26/01	20:28	Jeanmarie	8270C	8348
2,4-Dimethylphenol	ND	mg/kg	3.30	0.333	10	5/26/01	20:28	Jeanmarie	8270C	8348
Dimethylphthalate	ND	mg/kg	3.30	0.333	10	5/26/01	20:28	Jeanmarie	8270C	8348
Di-n-butylphthalate	ND	mg/kg	3.30	0.333	10	5/26/01	20:28	Jeanmarie	8270C	8348
4,6-Dinitro-2-methylphenol	ND	mg/kg	3.30	0.330	10	5/26/01	20:28	Jeanmarie	8270C	8348
2,4-Dinitrophenol	ND	mg/kg	3.30	0.330	10	5/26/01	20:28	Jeanmarie	8270C	8348
2,4-dinitrotoluene	ND	mg/kg	3.30	0.333	10	5/26/01	20:28	Jeanmarie	8270C	8348
2,6-Dinitrotoluene	ND	mg/kg	3.30	0.333	10	5/26/01	20:28	Jeanmarie	8270C	8348
Di-n-octylphthalate	ND	mg/kg	3.30	0.333	10	5/26/01	20:28	Jeanmarie	8270C	8348
Fluoranthene	ND	mg/kg	3.30	0.333	10	5/26/01	20:28	Jeanmarie	8270C	8348
Fluorene	ND	mg/kg	3.30	0.333	10	5/26/01	20:28	Jeanmarie	8270C	8348
Hexachlorobenzene	ND	mg/kg	3.30	0.333	10	5/26/01	20:28	Jeanmarie	8270C	8348
Hexachlorobutadiene	ND	mg/kg	3.30	0.333	10	5/26/01	20:28	Jeanmarie	8270C	8348
Hexachlorocyclopentadiene	ND	mg/kg	3.30	0.333	10	5/26/01	20:28	Jeanmarie	8270C	8348
Hexachloroethane	ND	mg/kg	3.30	0.333	10	5/26/01	20:28	Jeanmarie	8270C	8348
Indeno(1,2,3-cd)pyrene	ND	mg/kg	3.30	0.333	10	5/26/01	20:28	Jeanmarie	8270C	8348
Isophorone	ND	mg/kg	3.30	0.333	10	5/26/01	20:28	Jeanmarie	8270C	8348
2-Methylnaphthalene	9.24	mg/kg	3.30	0.333	10	5/26/01	20:28	Jeanmarie	8270C	8348
2-Methylphenol	ND	mg/kg	3.30	0.333	10	5/26/01	20:28	Jeanmarie	8270C	8348
m,p-Methylphenol	ND	mg/kg	3.30	0.333	10	5/26/01	20:28	Jeanmarie	8270C	8348
Naphthalene	ND	mg/kg	3.30	0.333	10	5/26/01	20:28	Jeanmarie	8270C	8348
2-Nitroaniline	ND	mg/kg	3.30	0.330	10	5/26/01	20:28	Jeanmarie	8270C	8348
3-Nitroaniline	ND	mg/kg	3.30	0.330	10	5/26/01	20:28	Jeanmarie	8270C	8348
4-Nitroaniline	ND	mg/kg	3.30	0.330	10	5/26/01	20:28	Jeanmarie	8270C	8348
Nitrobenzene	ND	mg/kg	3.30	0.333	10	5/26/01	20:28	Jeanmarie	8270C	8348
2-Nitrophenol	ND	mg/kg	3.30	0.333	10	5/26/01	20:28	Jeanmarie	8270C	8348
4-Nitrophenol	ND	mg/kg	3.30	0.330	10	5/26/01	20:28	Jeanmarie	8270C	8348
N-nitrosodi-n-propylamine	ND	mg/kg	3.30	0.333	10	5/26/01	20:28	Jeanmarie	8270C	8348
N-nitrosodiphenylamine	ND	mg/kg	3.30	0.333	10	5/26/01	20:28	Jeanmarie	8270C	8348
Pentachlorophenol	ND	mg/kg	3.30	0.330	10	5/26/01	20:28	Jeanmarie	8270C	8348
Phenanthrene	ND	mg/kg	3.30	0.333	10	5/26/01	20:28	Jeanmarie	8270C	8348
Phenol	ND	mg/kg	3.30	0.333	10	5/26/01	20:28	Jeanmarie	8270C	8348

ple report continued . . .

TestAmerica
INCORPORATED

ANALYTICAL REPORT

Laboratory Number: 01-A68595
Sample ID: KB-1 0.5-1.5
Project: 2961A

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Date	Time	Analyst	Method	Batch
Pyrene	ND	mg/kg	3.30	0.333	10	5/26/01	20:28	Jeanmarie	8270C	8348
Bis(2-ethylhexyl)phthalate	ND	mg/kg	3.30	0.333	10	5/26/01	20:28	Jeanmarie	8270C	8348
1,2,4-Trichlorobenzene	ND	mg/kg	3.30	0.333	10	5/26/01	20:28	Jeanmarie	8270C	8348
2,4,5-Trichlorophenol	ND	mg/kg	3.30	0.330	10	5/26/01	20:28	Jeanmarie	8270C	8348
2,4,6-Trichlorophenol	ND	mg/kg	3.30	0.333	10	5/26/01	20:28	Jeanmarie	8270C	8348
VOLATILE ORGANICS										
Acetone	0.0820	mg/kg	0.0500	0.0500	1	5/29/01	22:17	S. Wani	8260B	7065
Benzene	ND	mg/kg	0.0020	0.0020	1	5/29/01	22:17	S. Wani	8260B	7065
Bromobenzene	ND	mg/kg	0.0020	0.0020	1	5/29/01	22:17	S. Wani	8260B	7065
Bromochloromethane	ND	mg/kg	0.0020	0.0020	1	5/29/01	22:17	S. Wani	8260B	7065
Bromoform	ND	mg/kg	0.0020	0.0020	1	5/29/01	22:17	S. Wani	8260B	7065
Bromomethane	ND	mg/kg	0.0020	0.0020	1	5/29/01	22:17	S. Wani	8260B	7065
2-Butanone	ND	mg/kg	0.0500	0.0500	1	5/29/01	22:17	S. Wani	8260B	7065
n-Butylbenzene	ND	mg/kg	0.0020	0.0020	1	5/29/01	22:17	S. Wani	8260B	7065
sec-Butylbenzene	0.0153	mg/kg	0.0020	0.0020	1	5/29/01	22:17	S. Wani	8260B	7065
t-Butylbenzene	ND	mg/kg	0.0020	0.0020	1	5/29/01	22:17	S. Wani	8260B	7065
Carbon disulfide	0.0069	mg/kg	0.0020	0.0020	1	5/29/01	22:17	S. Wani	8260B	7065
Carbon tetrachloride	ND	mg/kg	0.0020	0.0020	1	5/29/01	22:17	S. Wani	8260B	7065
Chlorobenzene	ND	mg/kg	0.0020	0.0020	1	5/29/01	22:17	S. Wani	8260B	7065
Chloroethane	ND	mg/kg	0.0020	0.0020	1	5/29/01	22:17	S. Wani	8260B	7065
Chloroform	ND	mg/kg	0.0020	0.0020	1	5/29/01	22:17	S. Wani	8260B	7065
Chloromethane	ND	mg/kg	0.0020	0.0020	1	5/29/01	22:17	S. Wani	8260B	7065
2-Chlorotoluene	ND	mg/kg	0.0020	0.0020	1	5/29/01	22:17	S. Wani	8260B	7065
4-Chlorotoluene	ND	mg/kg	0.0020	0.0020	1	5/29/01	22:17	S. Wani	8260B	7065
1,2-Dibromo-3-chloropropane	ND	mg/kg	0.0100	0.0100	1	5/29/01	22:17	S. Wani	8260B	7065
Dibromochloromethane	ND	mg/kg	0.0020	0.0020	1	5/29/01	22:17	S. Wani	8260B	7065
1,2-Dibromoethane	ND	mg/kg	0.0020	0.0020	1	5/29/01	22:17	S. Wani	8260B	7065
Dibromomethane	ND	mg/kg	0.0020	0.0020	1	5/29/01	22:17	S. Wani	8260B	7065
1,2-Dichlorobenzene	ND	mg/kg	0.0020	0.0020	1	5/29/01	22:17	S. Wani	8260B	7065
1,3-Dichlorobenzene	ND	mg/kg	0.0020	0.0020	1	5/29/01	22:17	S. Wani	8260B	7065
1,4-Dichlorobenzene	ND	mg/kg	0.0020	0.0020	1	5/29/01	22:17	S. Wani	8260B	7065
Dichlorodifluoromethane	ND	mg/kg	0.0020	0.0020	1	5/29/01	22:17	S. Wani	8260B	7065
1,1-Dichloroethane	ND	mg/kg	0.0020	0.0020	1	5/29/01	22:17	S. Wani	8260B	7065

nple report continued . . .

TestAmerica
INCORPORATED

ANALYTICAL REPORT

Laboratory Number: 01-A68595
Sample ID: KB-1 0.5-1.5
Project: 2961A
Page 4

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Date	Time	Analyst	Method	Batch
1,2-Dichloroethane	ND	mg/kg	0.0020	0.0020	1	5/29/01	22:17	S. Wani	8260B	7065
1,1-Dichloroethene	ND	mg/kg	0.0020	0.0020	1	5/29/01	22:17	S. Wani	8260B	7065
cis-1,2-Dichloroethene	ND	mg/kg	0.0020	0.0020	1	5/29/01	22:17	S. Wani	8260B	7065
trans-1,2-Dichloroethene	ND	mg/kg	0.0020	0.0020	1	5/29/01	22:17	S. Wani	8260B	7065
1,2-Dichloropropane	ND	mg/kg	0.0020	0.0020	1	5/29/01	22:17	S. Wani	8260B	7065
1,3-Dichloropropane	ND	mg/kg	0.0020	0.0020	1	5/29/01	22:17	S. Wani	8260B	7065
2,2-Dichloropropane	ND	mg/kg	0.0020	0.0020	1	5/29/01	22:17	S. Wani	8260B	7065
1,1-Dichloropropene	ND	mg/kg	0.0020	0.0020	1	5/29/01	22:17	S. Wani	8260B	7065
cis-1,3-Dichloropropene	ND	mg/kg	0.0020	0.0020	1	5/29/01	22:17	S. Wani	8260B	7065
trans-1,3-Dichloropropene	ND	mg/kg	0.0020	0.0020	1	5/29/01	22:17	S. Wani	8260B	7065
Ethylbenzene	0.0232	mg/kg	0.0020	0.0020	1	5/29/01	22:17	S. Wani	8260B	7065
Hexachlorobutadiene	ND	mg/kg	0.0020	0.0020	1	5/29/01	22:17	S. Wani	8260B	7065
2-Hexanone	ND	mg/kg	0.0100	0.0100	1	5/29/01	22:17	S. Wani	8260B	7065
Isopropylbenzene	0.0074	mg/kg	0.0020	0.0020	1	5/29/01	22:17	S. Wani	8260B	7065
4-Isopropyltoluene	0.0191	mg/kg	0.0020	0.0020	1	5/29/01	22:17	S. Wani	8260B	7065
4-Methyl-2-pentanone	ND	mg/kg	0.0100	0.0100	1	5/29/01	22:17	S. Wani	8260B	7065
Methylene chloride	ND	mg/kg	0.0050	0.0050	1	5/29/01	22:17	S. Wani	8260B	7065
Naphthalene	0.0983	mg/kg	0.0050	0.0050	1	5/29/01	22:17	S. Wani	8260B	7065
n-Propylbenzene	0.0211	mg/kg	0.0020	0.0020	1	5/29/01	22:17	S. Wani	8260B	7065
Styrene	ND	mg/kg	0.0020	0.0020	1	5/29/01	22:17	S. Wani	8260B	7065
1,1,1,2-Tetrachloroethane	ND	mg/kg	0.0020	0.0020	1	5/29/01	22:17	S. Wani	8260B	7065
1,1,2,2-Tetrachloroethane	ND	mg/kg	0.0020	0.0020	1	5/29/01	22:17	S. Wani	8260B	7065
Tetrachloroethene	0.0093	mg/kg	0.0020	0.0020	1	5/29/01	22:17	S. Wani	8260B	7065
Toluene	0.0025	mg/kg	0.0020	0.0020	1	5/29/01	22:17	S. Wani	8260B	7065
1,2,3-Trichlorobenzene	ND	mg/kg	0.0020	0.0020	1	5/29/01	22:17	S. Wani	8260B	7065
1,2,4-Trichlorobenzene	ND	mg/kg	0.0020	0.0020	1	5/29/01	22:17	S. Wani	8260B	7065
1,1,1-Trichloroethane	ND	mg/kg	0.0020	0.0020	1	5/29/01	22:17	S. Wani	8260B	7065
1,1,2-Trichloroethane	ND	mg/kg	0.0020	0.0020	1	5/29/01	22:17	S. Wani	8260B	7065
Trichloroethene	ND	mg/kg	0.0020	0.0020	1	5/29/01	22:17	S. Wani	8260B	7065
1,2,3-Trichloropropane	ND	mg/kg	0.0020	0.0020	1	5/29/01	22:17	S. Wani	8260B	7065
1,2,4-Trimethylbenzene	0.0148	mg/kg	0.0020	0.0020	1	5/29/01	22:17	S. Wani	8260B	7065
1,3,5-Trimethylbenzene	0.0031	mg/kg	0.0020	0.0020	1	5/29/01	22:17	S. Wani	8260B	7065
Vinyl chloride	ND	mg/kg	0.0020	0.0020	1	5/29/01	22:17	S. Wani	8260B	7065
Xylenes, Total	0.0079	mg/kg	0.0020	0.0020	1	5/29/01	22:17	S. Wani	8260B	7065

ple report continued . . .

TestAmerica
INCORPORATED

ANALYTICAL REPORT

Laboratory Number: 01-A68595
Sample ID: KB-1 0.5-1.5
Project: 2961A

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Date	Time	Analyst	Method	Batch
Bromodichloromethane	ND	mg/kg	0.0020	0.0020	1	5/29/01	22:17	S. Wani	8260B	7065
Trichlorofluoromethane	ND	mg/kg	0.0020	0.0020	1	5/29/01	22:17	S. Wani	8260B	7065
PESTICIDE/PCB's/HERBICIDES										
Aroclor 1016	ND	mg/kg	0.0200	0.0200	1	5/30/01	3:19	M. Cauthen	8082	8363
Aroclor 1221	ND	mg/kg	0.0200	0.0200	1	5/30/01	3:19	M. Cauthen	8082	8363
Aroclor 1232	ND	mg/kg	0.0200	0.0200	1	5/30/01	3:19	M. Cauthen	8082	8363
Aroclor 1242	ND	mg/kg	0.0200	0.0200	1	5/30/01	3:19	M. Cauthen	8082	8363
Aroclor 1248	ND	mg/kg	0.0200	0.0200	1	5/30/01	3:19	M. Cauthen	8082	8363
Aroclor 1254	ND	mg/kg	0.0200	0.0200	1	5/30/01	3:19	M. Cauthen	8082	8363
Aroclor 1260	0.1562	mg/kg	0.0200	0.0200	1	5/30/01	3:19	M. Cauthen	8082	8363
METALS										
Arsenic	4.00	mg/kg	1.00	1.00	1	5/24/01	16:34	G.McCord	6010B	7298
Barium	66.0	mg/kg	1.00	1.00	1	5/24/01	16:34	G.McCord	6010B	7298
Cadmium	ND	mg/kg	1.00	1.00	1	5/24/01	16:34	G.McCord	6010B	7298
Chromium	3.00	mg/kg	1.00	1.00	1	5/24/01	16:34	G.McCord	6010B	7298
Copper	16.8	mg/kg	1.00	1.00	1	5/24/01	16:34	G.McCord	6010B	7298
Lead	32.2	mg/kg	1.00	1.00	1	5/24/01	16:34	G.McCord	6010B	7298
Mercury	ND	mg/kg	0.099	0.099	1	5/24/01	12:44	C. Terry	7471	7307
Selenium	ND	mg/kg	1.00	1.00	1	5/24/01	16:34	G.McCord	6010B	7298
Silver	ND	mg/kg	1.00	1.00	1	5/24/01	16:34	G.McCord	6010B	7298
pH	9.20	pH units			1	5/25/01	11:17	K.Bundy	9045	7167

ND - Not detected at the report limit.

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Time	Analyst	Method
BNA's	29.8 gm	1.0 ml	5/23/01		J. Rudden	3550

ıple report continued . . .

TestAmerica
INCORPORATED

ANALYTICAL REPORT

Laboratory Number: 01-A68595
Sample ID: KB-1 0.5-1.5
Project: 2961A
Page 6

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Time	Analyst	Method
PCB's	30.4 gm	10.0 ml	5/23/01		J. Rudden	3550

Surrogate	% Recovery	Target Range
surr-1,2-Dichloroethane, d4	98.	50. - 140.
surr-Toluene d8	99.	75. - 141.
surr-4-Bromofluorobenzene	97.	69. - 131.
surr-Dibromofluoromethane	98.	76. - 136.
pcb surr-TCMX	58.	23. - 156.
pcb surr-DCB	56.	15. - 130.

- Recovery outside Laboratory historical limits.

All results reported on a wet weight basis.

Sample for pH analysis received outside method prescribed holding time.

le report continued . . .

TestAmerica
INCORPORATED

ANALYTICAL REPORT

Laboratory Number: 01-A68595
Sample ID: KB-1 0.5-1.5
Project: 2961A
Page 7

These results relate only to the items tested.
This report shall not be reproduced except in full and with permission of the laboratory.

Report Approved By: _____ Report Date: 6/ 1/01

Paul E. Lane, Jr., Lab Director
Michael H. Dunn, M.S., Technical Director
Johnny A. Mitchell, Dir. Technical Serv.
Eric S. Smith, Assistant Technical Director
Gail A. Lage, Technical Serv.
Glenn L. Norton, Technical Serv.
Kelly S. Comstock, Technical Serv.
Pamela A. Langford, Technical Serv.

Laboratory Certification Number: AZ0473

nd of Sample Report.

2960 Foster Creighton Drive / Nashville,TN 37204 / 615-726-0177 / Fax: 615-726-0954 / 800-765-0980

TestAmerica
INCORPORATED

ANALYTICAL REPORT

KERAMIDA ENVIRONMENTAL 6028
KRISTEN BELLCREDI
330 N. COLLEGE AVENUE
INDIANAPOLIS, IN 46202

Lab Number: 01-A68596
Sample ID: KB-1 12-13.5
Sample Type: Soil
Site ID:

Date Collected: 5/21/01
Time Collected: 11:30
Date Received: 5/23/01
Time Received: 9:00

Project: 2961A
Project Name: FRUEHAUF-PHOENIX
Sampler: B.H.

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Date	Time	Analyst	Method	Batch
EXTRACTABLE ORGANICS										
Acenaphthene	ND	mg/kg	0.330	0.330	1	5/26/01	1:07	Jeanmarie	8270C	8348
Acenaphthylene	ND	mg/kg	0.330	0.330	1	5/26/01	1:07	Jeanmarie	8270C	8348
Anthracene	ND	mg/kg	0.330	0.330	1	5/26/01	1:07	Jeanmarie	8270C	8348
Benzo(a)anthracene	ND	mg/kg	0.330	0.330	1	5/26/01	1:07	Jeanmarie	8270C	8348
Benzo(a)pyrene	ND	mg/kg	0.330	0.330	1	5/26/01	1:07	Jeanmarie	8270C	8348
Benzo(b)fluoranthene	ND	mg/kg	0.330	0.330	1	5/26/01	1:07	Jeanmarie	8270C	8348
Benzo(g,h,i)perylene	ND	mg/kg	0.330	0.330	1	5/26/01	1:07	Jeanmarie	8270C	8348
Benzo(k)fluoranthene	ND	mg/kg	0.330	0.330	1	5/26/01	1:07	Jeanmarie	8270C	8348
4-Bromophenylphenylether	ND	mg/kg	0.330	0.330	1	5/26/01	1:07	Jeanmarie	8270C	8348
Butylbenzylphthalate	ND	mg/kg	0.330	0.330	1	5/26/01	1:07	Jeanmarie	8270C	8348
Carbazole	ND	mg/kg	0.330	0.330	1	5/26/01	1:07	Jeanmarie	8270C	8348
4-Chloro-3-methylphenol	ND	mg/kg	0.330	0.330	1	5/26/01	1:07	Jeanmarie	8270C	8348
4-Chloroaniline	ND	mg/kg	0.330	0.330	1	5/26/01	1:07	Jeanmarie	8270C	8348
bis(2-Chloroethoxy)methane	ND	mg/kg	0.330	0.330	1	5/26/01	1:07	Jeanmarie	8270C	8348
bis(2-Chloroethyl)ether	ND	mg/kg	0.330	0.330	1	5/26/01	1:07	Jeanmarie	8270C	8348
bis(2-Chloroisopropyl)ether	ND	mg/kg	0.330	0.330	1	5/26/01	1:07	Jeanmarie	8270C	8348
2-Chloronaphthalene	ND	mg/kg	0.330	0.330	1	5/26/01	1:07	Jeanmarie	8270C	8348
2-Chlorophenol	ND	mg/kg	0.330	0.330	1	5/26/01	1:07	Jeanmarie	8270C	8348
4-Chlorophenylphenylether	ND	mg/kg	0.330	0.330	1	5/26/01	1:07	Jeanmarie	8270C	8348
Chrysene	ND	mg/kg	0.330	0.330	1	5/26/01	1:07	Jeanmarie	8270C	8348
Dibenzofuran	ND	mg/kg	0.330	0.330	1	5/26/01	1:07	Jeanmarie	8270C	8348
Dibenz(a,h)anthracene	ND	mg/kg	0.330	0.330	1	5/26/01	1:07	Jeanmarie	8270C	8348
1,2-Dichlorobenzene	ND	mg/kg	0.330	0.330	1	5/26/01	1:07	Jeanmarie	8270C	8348
1,3-Dichlorobenzene	ND	mg/kg	0.330	0.330	1	5/26/01	1:07	Jeanmarie	8270C	8348
1,4-Dichlorobenzene	ND	mg/kg	0.330	0.330	1	5/26/01	1:07	Jeanmarie	8270C	8348

ple report continued . . .

TestAmerica
INCORPORATED

ANALYTICAL REPORT

Laboratory Number: 01-A68596
Sample ID: KB-1 12-13.5
Project: 2961A

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Date	Time	Analyst	Method	Batch
3,3'-Dichlorobenzidine	ND	mg/kg	0.330	0.330	1	5/26/01	1:07	Jeanmarie	8270C	8348
2,4-Dichlorophenol	ND	mg/kg	0.330	0.330	1	5/26/01	1:07	Jeanmarie	8270C	8348
Diethylphthalate	ND	mg/kg	0.330	0.330	1	5/26/01	1:07	Jeanmarie	8270C	8348
2,4-Dimethylphenol	ND	mg/kg	0.330	0.330	1	5/26/01	1:07	Jeanmarie	8270C	8348
Dimethylphthalate	ND	mg/kg	0.330	0.330	1	5/26/01	1:07	Jeanmarie	8270C	8348
Di-n-butylphthalate	ND	mg/kg	0.330	0.330	1	5/26/01	1:07	Jeanmarie	8270C	8348
4,6-Dinitro-2-methylphenol	ND	mg/kg	0.330	0.330	1	5/26/01	1:07	Jeanmarie	8270C	8348
2,4-Dinitrophenol	ND	mg/kg	0.330	0.330	1	5/26/01	1:07	Jeanmarie	8270C	8348
2,4-dinitrotoluene	ND	mg/kg	0.330	0.330	1	5/26/01	1:07	Jeanmarie	8270C	8348
2,6-Dinitrotoluene	ND	mg/kg	0.330	0.330	1	5/26/01	1:07	Jeanmarie	8270C	8348
Di-n-octylphthalate	ND	mg/kg	0.330	0.330	1	5/26/01	1:07	Jeanmarie	8270C	8348
Fluoranthene	ND	mg/kg	0.330	0.330	1	5/26/01	1:07	Jeanmarie	8270C	8348
Fluorene	ND	mg/kg	0.330	0.330	1	5/26/01	1:07	Jeanmarie	8270C	8348
Hexachlorobenzene	ND	mg/kg	0.330	0.330	1	5/26/01	1:07	Jeanmarie	8270C	8348
Hexachlorobutadiene	ND	mg/kg	0.330	0.330	1	5/26/01	1:07	Jeanmarie	8270C	8348
Hexachlorocyclopentadiene	ND	mg/kg	0.330	0.330	1	5/26/01	1:07	Jeanmarie	8270C	8348
Hexachloroethane	ND	mg/kg	0.330	0.330	1	5/26/01	1:07	Jeanmarie	8270C	8348
Indeno(1,2,3-cd)pyrene	ND	mg/kg	0.330	0.330	1	5/26/01	1:07	Jeanmarie	8270C	8348
Isophorone	ND	mg/kg	0.330	0.330	1	5/26/01	1:07	Jeanmarie	8270C	8348
2-Methylnaphthalene	ND	mg/kg	0.330	0.330	1	5/26/01	1:07	Jeanmarie	8270C	8348
2-Methylphenol	ND	mg/kg	0.330	0.330	1	5/26/01	1:07	Jeanmarie	8270C	8348
m,p-Methylphenol	ND	mg/kg	0.330	0.330	1	5/26/01	1:07	Jeanmarie	8270C	8348
Naphthalene	ND	mg/kg	0.330	0.330	1	5/26/01	1:07	Jeanmarie	8270C	8348
2-Nitroaniline	ND	mg/kg	0.330	0.330	1	5/26/01	1:07	Jeanmarie	8270C	8348
3-Nitroaniline	ND	mg/kg	0.330	0.330	1	5/26/01	1:07	Jeanmarie	8270C	8348
4-Nitroaniline	ND	mg/kg	0.330	0.330	1	5/26/01	1:07	Jeanmarie	8270C	8348
Nitrobenzene	ND	mg/kg	0.330	0.330	1	5/26/01	1:07	Jeanmarie	8270C	8348
2-Nitrophenol	ND	mg/kg	0.330	0.330	1	5/26/01	1:07	Jeanmarie	8270C	8348
4-Nitrophenol	ND	mg/kg	0.330	0.330	1	5/26/01	1:07	Jeanmarie	8270C	8348
N-nitrosodi-n-propylamine	ND	mg/kg	0.330	0.330	1	5/26/01	1:07	Jeanmarie	8270C	8348
N-nitrosodiphenylamine	ND	mg/kg	0.330	0.330	1	5/26/01	1:07	Jeanmarie	8270C	8348
Pentachlorophenol	ND	mg/kg	0.330	0.330	1	5/26/01	1:07	Jeanmarie	8270C	8348
Phenanthrene	ND	mg/kg	0.330	0.330	1	5/26/01	1:07	Jeanmarie	8270C	8348
Phenol	ND	mg/kg	0.330	0.330	1	5/26/01	1:07	Jeanmarie	8270C	8348

ample report continued . . .

TestAmerica
INCORPORATED

ANALYTICAL REPORT

Laboratory Number: 01-A68596
Sample ID: KB-1 12-13.5
Project: 2961A

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Date	Time	Analyst	Method	Batch
Pyrene	ND	mg/kg	0.330	0.330	1	5/26/01	1:07	Jeanmarie	8270C	8348
Bis(2-ethylhexyl)phthalate	ND	mg/kg	0.330	0.330	1	5/26/01	1:07	Jeanmarie	8270C	8348
1,2,4-Trichlorobenzene	ND	mg/kg	0.330	0.330	1	5/26/01	1:07	Jeanmarie	8270C	8348
2,4,5-Trichlorophenol	ND	mg/kg	0.330	0.330	1	5/26/01	1:07	Jeanmarie	8270C	8348
2,4,6-Trichlorophenol	ND	mg/kg	0.330	0.330	1	5/26/01	1:07	Jeanmarie	8270C	8348
VOLATILE ORGANICS										
Acetone	ND	mg/kg	0.0500	0.0500	1	5/29/01	22:55	S. Wani	8260B	7065
Benzene	ND	mg/kg	0.0020	0.0020	1	5/29/01	22:55	S. Wani	8260B	7065
Bromobenzene	ND	mg/kg	0.0020	0.0020	1	5/29/01	22:55	S. Wani	8260B	7065
Bromochloromethane	ND	mg/kg	0.0020	0.0020	1	5/29/01	22:55	S. Wani	8260B	7065
Bromoform	ND	mg/kg	0.0020	0.0020	1	5/29/01	22:55	S. Wani	8260B	7065
Bromomethane	ND	mg/kg	0.0020	0.0020	1	5/29/01	22:55	S. Wani	8260B	7065
2-Butanone	ND	mg/kg	0.0500	0.0500	1	5/29/01	22:55	S. Wani	8260B	7065
n-Butylbenzene	ND	mg/kg	0.0020	0.0020	1	5/29/01	22:55	S. Wani	8260B	7065
sec-Butylbenzene	ND	mg/kg	0.0020	0.0020	1	5/29/01	22:55	S. Wani	8260B	7065
t-Butylbenzene	ND	mg/kg	0.0020	0.0020	1	5/29/01	22:55	S. Wani	8260B	7065
Carbon disulfide	ND	mg/kg	0.0020	0.0020	1	5/29/01	22:55	S. Wani	8260B	7065
Carbon tetrachloride	ND	mg/kg	0.0020	0.0020	1	5/29/01	22:55	S. Wani	8260B	7065
Chlorobenzene	ND	mg/kg	0.0020	0.0020	1	5/29/01	22:55	S. Wani	8260B	7065
Chloroethane	ND	mg/kg	0.0020	0.0020	1	5/29/01	22:55	S. Wani	8260B	7065
Chloroform	ND	mg/kg	0.0020	0.0020	1	5/29/01	22:55	S. Wani	8260B	7065
Chloromethane	ND	mg/kg	0.0020	0.0020	1	5/29/01	22:55	S. Wani	8260B	7065
2-Chlorotoluene	ND	mg/kg	0.0020	0.0020	1	5/29/01	22:55	S. Wani	8260B	7065
4-Chlorotoluene	ND	mg/kg	0.0020	0.0020	1	5/29/01	22:55	S. Wani	8260B	7065
1,2-Dibromo-3-chloropropane	ND	mg/kg	0.0100	0.0100	1	5/29/01	22:55	S. Wani	8260B	7065
Dibromochloromethane	ND	mg/kg	0.0020	0.0020	1	5/29/01	22:55	S. Wani	8260B	7065
1,2-Dibromoethane	ND	mg/kg	0.0020	0.0020	1	5/29/01	22:55	S. Wani	8260B	7065
Dibromomethane	ND	mg/kg	0.0020	0.0020	1	5/29/01	22:55	S. Wani	8260B	7065
1,2-Dichlorobenzene	ND	mg/kg	0.0020	0.0020	1	5/29/01	22:55	S. Wani	8260B	7065
1,3-Dichlorobenzene	ND	mg/kg	0.0020	0.0020	1	5/29/01	22:55	S. Wani	8260B	7065
1,4-Dichlorobenzene	ND	mg/kg	0.0020	0.0020	1	5/29/01	22:55	S. Wani	8260B	7065
Dichlorodifluoromethane	ND	mg/kg	0.0020	0.0020	1	5/29/01	22:55	S. Wani	8260B	7065
1,1-Dichloroethane	ND	mg/kg	0.0020	0.0020	1	5/29/01	22:55	S. Wani	8260B	7065

mple report continued . . .

TestAmerica
INCORPORATED

ANALYTICAL REPORT

Laboratory Number: 01-A68596
Sample ID: KB-1 12-13.5
Project: 2961A
Page 4

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Date	Time	Analyst	Method	Batch
1,2-Dichloroethane	ND	mg/kg	0.0020	0.0020	1	5/29/01	22:55	S. Wani	8260B	7065
1,1-Dichloroethene	ND	mg/kg	0.0020	0.0020	1	5/29/01	22:55	S. Wani	8260B	7065
cis-1,2-Dichloroethene	ND	mg/kg	0.0020	0.0020	1	5/29/01	22:55	S. Wani	8260B	7065
trans-1,2-Dichloroethene	ND	mg/kg	0.0020	0.0020	1	5/29/01	22:55	S. Wani	8260B	7065
1,2-Dichloropropane	ND	mg/kg	0.0020	0.0020	1	5/29/01	22:55	S. Wani	8260B	7065
1,3-Dichloropropane	ND	mg/kg	0.0020	0.0020	1	5/29/01	22:55	S. Wani	8260B	7065
2,2-Dichloropropane	ND	mg/kg	0.0020	0.0020	1	5/29/01	22:55	S. Wani	8260B	7065
1,1-Dichloropropene	ND	mg/kg	0.0020	0.0020	1	5/29/01	22:55	S. Wani	8260B	7065
cis-1,3-Dichloropropene	ND	mg/kg	0.0020	0.0020	1	5/29/01	22:55	S. Wani	8260B	7065
trans-1,3-Dichloropropene	ND	mg/kg	0.0020	0.0020	1	5/29/01	22:55	S. Wani	8260B	7065
Ethylbenzene	ND	mg/kg	0.0020	0.0020	1	5/29/01	22:55	S. Wani	8260B	7065
Hexachlorobutadiene	ND	mg/kg	0.0020	0.0020	1	5/29/01	22:55	S. Wani	8260B	7065
2-Hexanone	ND	mg/kg	0.0100	0.0100	1	5/29/01	22:55	S. Wani	8260B	7065
Isopropylbenzene	ND	mg/kg	0.0020	0.0020	1	5/29/01	22:55	S. Wani	8260B	7065
4-Isopropyltoluene	ND	mg/kg	0.0020	0.0020	1	5/29/01	22:55	S. Wani	8260B	7065
4-Methyl-2-pentanone	ND	mg/kg	0.0100	0.0100	1	5/29/01	22:55	S. Wani	8260B	7065
Methylene chloride	ND	mg/kg	0.0050	0.0050	1	5/29/01	22:55	S. Wani	8260B	7065
Naphthalene	ND	mg/kg	0.0050	0.0050	1	5/29/01	22:55	S. Wani	8260B	7065
n-Propylbenzene	ND	mg/kg	0.0020	0.0020	1	5/29/01	22:55	S. Wani	8260B	7065
Styrene	ND	mg/kg	0.0020	0.0020	1	5/29/01	22:55	S. Wani	8260B	7065
1,1,1,2-Tetrachloroethane	ND	mg/kg	0.0020	0.0020	1	5/29/01	22:55	S. Wani	8260B	7065
1,1,2,2-Tetrachloroethane	ND	mg/kg	0.0020	0.0020	1	5/29/01	22:55	S. Wani	8260B	7065
Tetrachloroethene	ND	mg/kg	0.0020	0.0020	1	5/29/01	22:55	S. Wani	8260B	7065
Toluene	ND	mg/kg	0.0020	0.0020	1	5/29/01	22:55	S. Wani	8260B	7065
1,2,3-Trichlorobenzene	ND	mg/kg	0.0020	0.0020	1	5/29/01	22:55	S. Wani	8260B	7065
1,2,4-Trichlorobenzene	ND	mg/kg	0.0020	0.0020	1	5/29/01	22:55	S. Wani	8260B	7065
1,1,1-Trichloroethane	ND	mg/kg	0.0020	0.0020	1	5/29/01	22:55	S. Wani	8260B	7065
1,1,2-Trichloroethane	ND	mg/kg	0.0020	0.0020	1	5/29/01	22:55	S. Wani	8260B	7065
Trichloroethene	ND	mg/kg	0.0020	0.0020	1	5/29/01	22:55	S. Wani	8260B	7065
1,2,3-Trichloropropane	ND	mg/kg	0.0020	0.0020	1	5/29/01	22:55	S. Wani	8260B	7065
1,2,4-Trimethylbenzene	ND	mg/kg	0.0020	0.0020	1	5/29/01	22:55	S. Wani	8260B	7065
1,3,5-Trimethylbenzene	ND	mg/kg	0.0020	0.0020	1	5/29/01	22:55	S. Wani	8260B	7065
Vinyl chloride	ND	mg/kg	0.0020	0.0020	1	5/29/01	22:55	S. Wani	8260B	7065
Xylenes, Total	ND	mg/kg	0.0020	0.0020	1	5/29/01	22:55	S. Wani	8260B	7065

nple report continued . . .

TestAmerica
INCORPORATED

ANALYTICAL REPORT

Laboratory Number: 01-A68596
Sample ID: KB-1 12-13.5
Project: 2961A

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Date	Time	Analyst	Method	Batch
Bromodichloromethane	ND	mg/kg	0.0020	0.0020	1	5/29/01	22:55	S. Wani	8260B	7065
Trichlorofluoromethane	ND	mg/kg	0.0020	0.0020	1	5/29/01	22:55	S. Wani	8260B	7065
PESTICIDE/PCB's/HERBICIDES										
Aroclor 1016	ND	mg/kg	0.0200	0.0200	1	5/25/01	16:20	M. Cauthen	8082	8363
Aroclor 1221	ND	mg/kg	0.0200	0.0200	1	5/25/01	16:20	M. Cauthen	8082	8363
Aroclor 1232	ND	mg/kg	0.0200	0.0200	1	5/25/01	16:20	M. Cauthen	8082	8363
Aroclor 1242	ND	mg/kg	0.0200	0.0200	1	5/25/01	16:20	M. Cauthen	8082	8363
Aroclor 1248	ND	mg/kg	0.0200	0.0200	1	5/25/01	16:20	M. Cauthen	8082	8363
Aroclor 1254	ND	mg/kg	0.0200	0.0200	1	5/25/01	16:20	M. Cauthen	8082	8363
Aroclor 1260	ND	mg/kg	0.0200	0.0200	1	5/25/01	16:20	M. Cauthen	8082	8363
METALS										
Arsenic	2.72	mg/kg	0.971	0.971	1	5/24/01	16:34	G.McCord	6010B	7298
Barium	49.9	mg/kg	0.971	0.971	1	5/24/01	16:34	G.McCord	6010B	7298
Cadmium	ND	mg/kg	0.971	0.971	1	5/24/01	16:34	G.McCord	6010B	7298
Chromium	2.14	mg/kg	0.971	0.971	1	5/24/01	16:34	G.McCord	6010B	7298
Copper	1.55	mg/kg	0.971	0.971	1	5/24/01	16:34	G.McCord	6010B	7298
Lead	3.11	mg/kg	0.971	0.971	1	5/24/01	16:34	G.McCord	6010B	7298
Mercury	ND	mg/kg	0.099	0.099	1	5/24/01	12:44	C. Terry	7471	7307
Selenium	ND	mg/kg	0.971	0.971	1	5/24/01	16:34	G.McCord	6010B	7298
Silver	ND	mg/kg	0.971	0.971	1	5/24/01	16:34	G.McCord	6010B	7298
pH	7.80	pH units			1	5/25/01	11:17	K.Bundy	9045	7167

ND - Not detected at the report limit.

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Time	Analyst	Method
BNA's	30.0 gm	1.0 ml	5/23/01		J. Rudden	3550

ple report continued . . .

TestAmerica
INCORPORATED

ANALYTICAL REPORT

Laboratory Number: 01-A68596
Sample ID: KB-1 12-13.5
Project: 2961A

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Time	Analyst	Method
PCB's	30.5 gm	10.0 ml	5/23/01		J. Rudden	3550

Surrogate	% Recovery	Target Range
surr-1,2-Dichloroethane, d4	97.	50. - 140.
surr-Toluene d8	99.	75. - 141.
surr-4-Bromofluorobenzene	99.	69. - 131.
surr-Dibromofluoromethane	98.	76. - 136.
BNA Surr-Nitrobenzene-d5	57.	26. - 110.
BNA Surr-2-Fluorobiphenyl	59.	28. - 112.
BNA Surr-Terphenyl d14	82.	40. - 124.
BNA Surr-Phenol d5	65.	29. - 121.
BNA Surr-2-Fluorophenol	55.	20. - 113.
BNA Surr-2,4,6-Tribromophenol	85.	29. - 144.
pcb surr-TCMX	86.	23. - 156.
pcb surr-DCB	80.	15. - 130.

- Recovery outside Laboratory historical limits.

All results reported on a wet weight basis.

Sample for pH analysis received outside method prescribed holding time.

'ple report continued . . .

TestAmerica
INCORPORATED

ANALYTICAL REPORT

Laboratory Number: 01-A68596
Sample ID: KB-1 12-13.5
Project: 2961A
Page 7

These results relate only to the items tested.
This report shall not be reproduced except in full and with permission of the laboratory.

Report Approved By: _____ Report Date: 6/ 1/01

Paul E. Lane, Jr., Lab Director
Michael H. Dunn, M.S., Technical Director
Johnny A. Mitchell, Dir. Technical Serv.
Eric S. Smith, Assistant Technical Director
Gail A. Lage, Technical Serv.
Glenn L. Norton, Technical Serv.
Kelly S. Comstock, Technical Serv.
Pamela A. Langford, Technical Serv.

Laboratory Certification Number: AZ0473

nd of Sample Report.

TestAmerica
INCORPORATED

ANALYTICAL REPORT

KERAMIDA ENVIRONMENTAL 6028
KRISTEN BELLCREDI
330 N. COLLEGE AVENUE
INDIANAPOLIS, IN 46202

Lab Number: 01-A68597
Sample ID: KB-2 4-4.5
Sample Type: Soil
Site ID:

Project: 2961A
Project Name: FRUEHAUF-PHOENIX
Sampler: B.H.

Date Collected: 5/21/01
Time Collected: 12:15
Date Received: 5/23/01
Time Received: 9:00

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Date	Time	Analyst	Method	Batch
EXTRACTABLE ORGANICS										
Acenaphthene	ND	mg/kg	33.0	0.330	100	5/27/01	18:48	Jeanmarie	8270C	8348
Acenaphthylene	ND	mg/kg	33.0	0.330	100	5/27/01	18:48	Jeanmarie	8270C	8348
Anthracene	ND	mg/kg	33.0	0.330	100	5/27/01	18:48	Jeanmarie	8270C	8348
Benzo(a)anthracene	ND	mg/kg	33.0	0.330	100	5/27/01	18:48	Jeanmarie	8270C	8348
Benzo(a)pyrene	ND	mg/kg	33.0	0.330	100	5/27/01	18:48	Jeanmarie	8270C	8348
Benzo(b)fluoranthene	ND	mg/kg	33.0	0.330	100	5/27/01	18:48	Jeanmarie	8270C	8348
Benzo(g,h,i)perylene	ND	mg/kg	33.0	0.330	100	5/27/01	18:48	Jeanmarie	8270C	8348
Benzo(k)fluoranthene	ND	mg/kg	33.0	0.330	100	5/27/01	18:48	Jeanmarie	8270C	8348
4-Bromophenylphenylether	ND	mg/kg	33.0	0.330	100	5/27/01	18:48	Jeanmarie	8270C	8348
Butylbenzylphthalate	ND	mg/kg	33.0	0.330	100	5/27/01	18:48	Jeanmarie	8270C	8348
Carbazole	ND	mg/kg	33.0	0.330	100	5/27/01	18:48	Jeanmarie	8270C	8348
4-Chloro-3-methylphenol	ND	mg/kg	33.0	0.330	100	5/27/01	18:48	Jeanmarie	8270C	8348
4-Chloroaniline	ND	mg/kg	33.0	0.330	100	5/27/01	18:48	Jeanmarie	8270C	8348
bis(2-Chloroethoxy)methane	ND	mg/kg	33.0	0.333	100	5/27/01	18:48	Jeanmarie	8270C	8348
bis(2-Chloroethyl)ether	ND	mg/kg	33.0	0.333	100	5/27/01	18:48	Jeanmarie	8270C	8348
bis(2-Chloroisopropyl)ether	ND	mg/kg	33.0	0.333	100	5/27/01	18:48	Jeanmarie	8270C	8348
2-Chloronaphthalene	ND	mg/kg	33.0	0.333	100	5/27/01	18:48	Jeanmarie	8270C	8348
2-Chlorophenol	ND	mg/kg	33.0	0.333	100	5/27/01	18:48	Jeanmarie	8270C	8348
4-Chlorophenylphenylether	ND	mg/kg	33.0	0.333	100	5/27/01	18:48	Jeanmarie	8270C	8348
Chrysene	ND	mg/kg	33.0	0.333	100	5/27/01	18:48	Jeanmarie	8270C	8348
Dibenzofuran	ND	mg/kg	33.0	0.333	100	5/27/01	18:48	Jeanmarie	8270C	8348
Dibenz(a,h)anthracene	ND	mg/kg	33.0	0.333	100	5/27/01	18:48	Jeanmarie	8270C	8348
1,2-Dichlorobenzene	ND	mg/kg	33.0	0.333	100	5/27/01	18:48	Jeanmarie	8270C	8348
1,3-Dichlorobenzene	ND	mg/kg	33.0	0.333	100	5/27/01	18:48	Jeanmarie	8270C	8348
1,4-Dichlorobenzene	ND	mg/kg	33.0	0.333	100	5/27/01	18:48	Jeanmarie	8270C	8348

nple report continued . . .

TestAmerica
INCORPORATED

ANALYTICAL REPORT

Laboratory Number: 01-A68597
Sample ID: KB-2 4-4.5
Project: 2961A

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Date	Time	Analyst	Method	Batch
3,3'-Dichlorobenzidine	ND	mg/kg	33.0	0.330	100	5/27/01	18:48	Jeanmarie	8270C	8348
2,4-Dichlorophenol	ND	mg/kg	33.0	0.333	100	5/27/01	18:48	Jeanmarie	8270C	8348
Diethylphthalate	ND	mg/kg	33.0	0.333	100	5/27/01	18:48	Jeanmarie	8270C	8348
2,4-Dimethylphenol	ND	mg/kg	33.0	0.333	100	5/27/01	18:48	Jeanmarie	8270C	8348
Dimethylphthalate	ND	mg/kg	33.0	0.333	100	5/27/01	18:48	Jeanmarie	8270C	8348
Di-n-butylphthalate	ND	mg/kg	33.0	0.333	100	5/27/01	18:48	Jeanmarie	8270C	8348
4,6-Dinitro-2-methylphenol	ND	mg/kg	33.0	0.330	100	5/27/01	18:48	Jeanmarie	8270C	8348
2,4-Dinitrophenol	ND	mg/kg	33.0	0.330	100	5/27/01	18:48	Jeanmarie	8270C	8348
2,4-dinitrotoluene	ND	mg/kg	33.0	0.333	100	5/27/01	18:48	Jeanmarie	8270C	8348
2,6-Dinitrotoluene	ND	mg/kg	33.0	0.333	100	5/27/01	18:48	Jeanmarie	8270C	8348
Di-n-octylphthalate	ND	mg/kg	33.0	0.333	100	5/27/01	18:48	Jeanmarie	8270C	8348
Fluoranthene	ND	mg/kg	33.0	0.333	100	5/27/01	18:48	Jeanmarie	8270C	8348
Fluorene	ND	mg/kg	33.0	0.333	100	5/27/01	18:48	Jeanmarie	8270C	8348
Hexachlorobenzene	ND	mg/kg	33.0	0.333	100	5/27/01	18:48	Jeanmarie	8270C	8348
Hexachlorobutadiene	ND	mg/kg	33.0	0.333	100	5/27/01	18:48	Jeanmarie	8270C	8348
Hexachlorocyclopentadiene	ND	mg/kg	33.0	0.333	100	5/27/01	18:48	Jeanmarie	8270C	8348
Hexachloroethane	ND	mg/kg	33.0	0.333	100	5/27/01	18:48	Jeanmarie	8270C	8348
Indeno(1,2,3-cd)pyrene	ND	mg/kg	33.0	0.333	100	5/27/01	18:48	Jeanmarie	8270C	8348
Isophorone	ND	mg/kg	33.0	0.333	100	5/27/01	18:48	Jeanmarie	8270C	8348
2-Methylnaphthalene	ND	mg/kg	33.0	0.333	100	5/27/01	18:48	Jeanmarie	8270C	8348
2-Methylphenol	ND	mg/kg	33.0	0.333	100	5/27/01	18:48	Jeanmarie	8270C	8348
m,p-Methylphenol	ND	mg/kg	33.0	0.333	100	5/27/01	18:48	Jeanmarie	8270C	8348
Naphthalene	ND	mg/kg	33.0	0.333	100	5/27/01	18:48	Jeanmarie	8270C	8348
2-Nitroaniline	ND	mg/kg	33.0	0.330	100	5/27/01	18:48	Jeanmarie	8270C	8348
3-Nitroaniline	ND	mg/kg	33.0	0.330	100	5/27/01	18:48	Jeanmarie	8270C	8348
4-Nitroaniline	ND	mg/kg	33.0	0.330	100	5/27/01	18:48	Jeanmarie	8270C	8348
Nitrobenzene	ND	mg/kg	33.0	0.333	100	5/27/01	18:48	Jeanmarie	8270C	8348
2-Nitrophenol	ND	mg/kg	33.0	0.333	100	5/27/01	18:48	Jeanmarie	8270C	8348
4-Nitrophenol	ND	mg/kg	33.0	0.330	100	5/27/01	18:48	Jeanmarie	8270C	8348
N-nitrosodi-n-propylamine	ND	mg/kg	33.0	0.333	100	5/27/01	18:48	Jeanmarie	8270C	8348
N-nitrosodiphenylamine	ND	mg/kg	33.0	0.333	100	5/27/01	18:48	Jeanmarie	8270C	8348
Pentachlorophenol	ND	mg/kg	33.0	0.330	100	5/27/01	18:48	Jeanmarie	8270C	8348
Phenanthrene	ND	mg/kg	33.0	0.333	100	5/27/01	18:48	Jeanmarie	8270C	8348
Phenol	ND	mg/kg	33.0	0.333	100	5/27/01	18:48	Jeanmarie	8270C	8348

mple report continued . . .

TestAmerica
INCORPORATED

ANALYTICAL REPORT

Laboratory Number: 01-A68597
Sample ID: KB-2 4-4.5
Project: 2961A

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Date	Time	Analyst	Method	Batch
Pyrene	ND	mg/kg	33.0	0.333	100	5/27/01	18:48	Jeanmarie	8270C	8348
Bis(2-ethylhexyl)phthalate	ND	mg/kg	33.0	0.333	100	5/27/01	18:48	Jeanmarie	8270C	8348
1,2,4-Trichlorobenzene	ND	mg/kg	33.0	0.333	100	5/27/01	18:48	Jeanmarie	8270C	8348
2,4,5-Trichlorophenol	ND	mg/kg	33.0	0.330	100	5/27/01	18:48	Jeanmarie	8270C	8348
2,4,6-Trichlorophenol	ND	mg/kg	33.0	0.333	100	5/27/01	18:48	Jeanmarie	8270C	8348
VOLATILE ORGANICS										
Acetone	ND	mg/kg	0.0500	0.0500	1	5/29/01	23:33	S. Wani	8260B	7065
Benzene	ND	mg/kg	0.0020	0.0020	1	5/29/01	23:33	S. Wani	8260B	7065
Bromobenzene	ND	mg/kg	0.0020	0.0020	1	5/29/01	23:33	S. Wani	8260B	7065
Bromochloromethane	ND	mg/kg	0.0020	0.0020	1	5/29/01	23:33	S. Wani	8260B	7065
Bromoform	ND	mg/kg	0.0020	0.0020	1	5/29/01	23:33	S. Wani	8260B	7065
Bromomethane	ND	mg/kg	0.0020	0.0020	1	5/29/01	23:33	S. Wani	8260B	7065
2-Butanone	ND	mg/kg	0.0500	0.0500	1	5/29/01	23:33	S. Wani	8260B	7065
n-Butylbenzene	ND	mg/kg	0.0020	0.0020	1	5/29/01	23:33	S. Wani	8260B	7065
sec-Butylbenzene	ND	mg/kg	0.0020	0.0020	1	5/29/01	23:33	S. Wani	8260B	7065
t-Butylbenzene	ND	mg/kg	0.0020	0.0020	1	5/29/01	23:33	S. Wani	8260B	7065
Carbon disulfide	ND	mg/kg	0.0020	0.0020	1	5/29/01	23:33	S. Wani	8260B	7065
Carbon tetrachloride	ND	mg/kg	0.0020	0.0020	1	5/29/01	23:33	S. Wani	8260B	7065
Chlorobenzene	ND	mg/kg	0.0020	0.0020	1	5/29/01	23:33	S. Wani	8260B	7065
Chloroethane	ND	mg/kg	0.0020	0.0020	1	5/29/01	23:33	S. Wani	8260B	7065
Chloroform	ND	mg/kg	0.0020	0.0020	1	5/29/01	23:33	S. Wani	8260B	7065
Chloromethane	ND	mg/kg	0.0020	0.0020	1	5/29/01	23:33	S. Wani	8260B	7065
2-Chlorotoluene	ND	mg/kg	0.0020	0.0020	1	5/29/01	23:33	S. Wani	8260B	7065
4-Chlorotoluene	ND	mg/kg	0.0020	0.0020	1	5/29/01	23:33	S. Wani	8260B	7065
1,2-Dibromo-3-chloropropane	ND	mg/kg	0.0100	0.0100	1	5/29/01	23:33	S. Wani	8260B	7065
Dibromochloromethane	ND	mg/kg	0.0020	0.0020	1	5/29/01	23:33	S. Wani	8260B	7065
1,2-Dibromoethane	ND	mg/kg	0.0020	0.0020	1	5/29/01	23:33	S. Wani	8260B	7065
Dibromomethane	ND	mg/kg	0.0020	0.0020	1	5/29/01	23:33	S. Wani	8260B	7065
1,2-Dichlorobenzene	ND	mg/kg	0.0020	0.0020	1	5/29/01	23:33	S. Wani	8260B	7065
1,3-Dichlorobenzene	ND	mg/kg	0.0020	0.0020	1	5/29/01	23:33	S. Wani	8260B	7065
1,4-Dichlorobenzene	ND	mg/kg	0.0020	0.0020	1	5/29/01	23:33	S. Wani	8260B	7065
Dichlorodifluoromethane	ND	mg/kg	0.0020	0.0020	1	5/29/01	23:33	S. Wani	8260B	7065
1,1-Dichloroethane	ND	mg/kg	0.0020	0.0020	1	5/29/01	23:33	S. Wani	8260B	7065

ıple report continued . . .

TestAmerica
INCORPORATED

ANALYTICAL REPORT

Laboratory Number: 01-A68597
Sample ID: KB-2 4-4.5
Project: 2961A
Page 4

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Date	Time	Analyst	Method	Batch
1,2-Dichloroethane	ND	mg/kg	0.0020	0.0020	1	5/29/01	23:33	S. Wani	8260B	7065
1,1-Dichloroethene	ND	mg/kg	0.0020	0.0020	1	5/29/01	23:33	S. Wani	8260B	7065
cis-1,2-Dichloroethene	ND	mg/kg	0.0020	0.0020	1	5/29/01	23:33	S. Wani	8260B	7065
trans-1,2-Dichloroethene	ND	mg/kg	0.0020	0.0020	1	5/29/01	23:33	S. Wani	8260B	7065
1,2-Dichloropropane	ND	mg/kg	0.0020	0.0020	1	5/29/01	23:33	S. Wani	8260B	7065
1,3-Dichloropropane	ND	mg/kg	0.0020	0.0020	1	5/29/01	23:33	S. Wani	8260B	7065
2,2-Dichloropropane	ND	mg/kg	0.0020	0.0020	1	5/29/01	23:33	S. Wani	8260B	7065
1,1-Dichloropropene	ND	mg/kg	0.0020	0.0020	1	5/29/01	23:33	S. Wani	8260B	7065
cis-1,3-Dichloropropene	ND	mg/kg	0.0020	0.0020	1	5/29/01	23:33	S. Wani	8260B	7065
trans-1,3-Dichloropropene	ND	mg/kg	0.0020	0.0020	1	5/29/01	23:33	S. Wani	8260B	7065
Ethylbenzene	ND	mg/kg	0.0020	0.0020	1	5/29/01	23:33	S. Wani	8260B	7065
Hexachlorobutadiene	ND	mg/kg	0.0020	0.0020	1	5/29/01	23:33	S. Wani	8260B	7065
2-Hexanone	ND	mg/kg	0.0100	0.0100	1	5/29/01	23:33	S. Wani	8260B	7065
Isopropylbenzene	ND	mg/kg	0.0020	0.0020	1	5/29/01	23:33	S. Wani	8260B	7065
4-Isopropyltoluene	ND	mg/kg	0.0020	0.0020	1	5/29/01	23:33	S. Wani	8260B	7065
4-Methyl-2-pentanone	ND	mg/kg	0.0100	0.0100	1	5/29/01	23:33	S. Wani	8260B	7065
Methylene chloride	ND	mg/kg	0.0050	0.0050	1	5/29/01	23:33	S. Wani	8260B	7065
Naphthalene	ND	mg/kg	0.0050	0.0050	1	5/29/01	23:33	S. Wani	8260B	7065
n-Propylbenzene	ND	mg/kg	0.0020	0.0020	1	5/29/01	23:33	S. Wani	8260B	7065
Styrene	ND	mg/kg	0.0020	0.0020	1	5/29/01	23:33	S. Wani	8260B	7065
1,1,1,2-Tetrachloroethane	ND	mg/kg	0.0020	0.0020	1	5/29/01	23:33	S. Wani	8260B	7065
1,1,2,2-Tetrachloroethane	ND	mg/kg	0.0020	0.0020	1	5/29/01	23:33	S. Wani	8260B	7065
Tetrachloroethene	ND	mg/kg	0.0020	0.0020	1	5/29/01	23:33	S. Wani	8260B	7065
Toluene	ND	mg/kg	0.0020	0.0020	1	5/29/01	23:33	S. Wani	8260B	7065
1,2,3-Trichlorobenzene	ND	mg/kg	0.0020	0.0020	1	5/29/01	23:33	S. Wani	8260B	7065
1,2,4-Trichlorobenzene	ND	mg/kg	0.0020	0.0020	1	5/29/01	23:33	S. Wani	8260B	7065
1,1,1-Trichloroethane	ND	mg/kg	0.0020	0.0020	1	5/29/01	23:33	S. Wani	8260B	7065
1,1,2-Trichloroethane	ND	mg/kg	0.0020	0.0020	1	5/29/01	23:33	S. Wani	8260B	7065
Trichloroethene	ND	mg/kg	0.0020	0.0020	1	5/29/01	23:33	S. Wani	8260B	7065
1,2,3-Trichloropropane	ND	mg/kg	0.0020	0.0020	1	5/29/01	23:33	S. Wani	8260B	7065
1,2,4-Trimethylbenzene	ND	mg/kg	0.0020	0.0020	1	5/29/01	23:33	S. Wani	8260B	7065
1,3,5-Trimethylbenzene	ND	mg/kg	0.0020	0.0020	1	5/29/01	23:33	S. Wani	8260B	7065
Vinyl chloride	ND	mg/kg	0.0020	0.0020	1	5/29/01	23:33	S. Wani	8260B	7065
Xylenes, Total	ND	mg/kg	0.0020	0.0020	1	5/29/01	23:33	S. Wani	8260B	7065

mple report continued . . .

TestAmerica
INCORPORATED

ANALYTICAL REPORT

Laboratory Number: 01-A68597
Sample ID: KB-2 4-4.5
Project: 2961A

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Date	Time	Analyst	Method	Batch
Bromodichloromethane	ND	mg/kg	0.0020	0.0020	1	5/29/01	23:33	S. Wani	8260B	7065
Trichlorofluoromethane	ND	mg/kg	0.0020	0.0020	1	5/29/01	23:33	S. Wani	8260B	7065
PESTICIDE/PCB's/HERBICIDES										
Aroclor 1016	ND	mg/kg	0.0200	0.0200	1	5/28/01	16:44	M. Cauthen	8082	8363
Aroclor 1221	ND	mg/kg	0.0200	0.0200	1	5/28/01	16:44	M. Cauthen	8082	8363
Aroclor 1232	ND	mg/kg	0.0200	0.0200	1	5/28/01	16:44	M. Cauthen	8082	8363
Aroclor 1242	ND	mg/kg	0.0200	0.0200	1	5/28/01	16:44	M. Cauthen	8082	8363
Aroclor 1248	ND	mg/kg	0.0200	0.0200	1	5/28/01	16:44	M. Cauthen	8082	8363
Aroclor 1254	ND	mg/kg	0.0200	0.0200	1	5/28/01	16:44	M. Cauthen	8082	8363
Aroclor 1260	ND	mg/kg	0.0200	0.0200	1	5/28/01	16:44	M. Cauthen	8082	8363
METALS										
Arsenic	2.57	mg/kg	0.952	0.952	1	5/24/01	16:34	G.McCord	6010B	7298
Barium	54.5	mg/kg	0.952	0.952	1	5/24/01	16:34	G.McCord	6010B	7298
Cadmium	ND	mg/kg	0.952	0.952	1	5/24/01	16:34	G.McCord	6010B	7298
Chromium	3.05	mg/kg	0.952	0.952	1	5/24/01	16:34	G.McCord	6010B	7298
Copper	276.	mg/kg	0.952	0.952	1	5/24/01	16:34	G.McCord	6010B	7298
Lead	9.33	mg/kg	0.952	0.952	1	5/24/01	16:34	G.McCord	6010B	7298
Mercury	ND	mg/kg	0.098	0.098	1	5/24/01	12:44	C. Terry	7471	7307
Selenium	ND	mg/kg	0.952	0.952	1	5/24/01	16:34	G.McCord	6010B	7298
Silver	ND	mg/kg	0.952	0.952	1	5/24/01	16:34	G.McCord	6010B	7298
pH	7.40	pH units			1	5/25/01	11:27	K.Bundy	9045	7168

ND - Not detected at the report limit.

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Time	Analyst	Method
BNA's	30.5 gm	1.0 ml	5/23/01		J. Rudden	3550

ɔle report continued . . .

TestAmerica
INCORPORATED

ANALYTICAL REPORT

Laboratory Number: 01-A68597
Sample ID: KB-2 4-4.5
Project: 2961A

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Time	Analyst	Method
PCB's	30.4 gm	10.0 ml	5/23/01		J. Rudden	3550

Surrogate	% Recovery	Target Range
surr-1,2-Dichloroethane, d4	97.	50. - 140.
surr-Toluene d8	100.	75. - 141.
surr-4-Bromofluorobenzene	99.	69. - 131.
surr-Dibromofluoromethane	98.	76. - 136.
pcb surr-TCMX	90.	23. - 156.
pcb surr-DCB	78.	15. - 130.

- Recovery outside Laboratory historical limits.

All results reported on a wet weight basis.

Sample for pH analysis received outside method prescribed holding time.

ple report continued . . .

TestAmerica
INCORPORATED

ANALYTICAL REPORT

Laboratory Number: 01-A68597
Sample ID: KB-2 4-4.5
Project: 2961A
Page 7

These results relate only to the items tested.
This report shall not be reproduced except in full and with permission of the laboratory.

Report Approved By: _____ Report Date: 6/ 1/01

Paul E. Lane, Jr., Lab Director
Michael H. Dunn, M.S., Technical Director
Johnny A. Mitchell, Dir. Technical Serv.
Eric S. Smith, Assistant Technical Director
Gail A. Lage, Technical Serv.
Glenn L. Norton, Technical Serv.
Kelly S. Comstock, Technical Serv.
Pamela A. Langford, Technical Serv.

Laboratory Certification Number: AZ0473

ıd of Sample Report.

TestAmerica
INCORPORATED

ANALYTICAL REPORT

KERAMIDA ENVIRONMENTAL 6028
KRISTEN BELLCREDI
330 N. COLLEGE AVENUE
INDIANAPOLIS, IN 46202

Lab Number: 01-A68598
Sample ID: KB-2 21-21.5
Sample Type: Soil
Site ID:

Date Collected: 5/21/01
Time Collected: 13:30
Date Received: 5/23/01
Time Received: 9:00

Project: 2961A
Project Name: FRUEHAUF-PHOENIX
Sampler: B.H.

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Date	Time	Analyst	Method	Batch
EXTRACTABLE ORGANICS										
Acenaphthene	ND	mg/kg	1.65	0.330	5	6/ 2/01	9:11	LMcDaniel	8270C	4191
Acenaphthylene	ND	mg/kg	1.65	0.330	5	6/ 2/01	9:11	LMcDaniel	8270C	4191
Anthracene	ND	mg/kg	1.65	0.330	5	6/ 2/01	9:11	LMcDaniel	8270C	4191
Benzo(a)anthracene	ND	mg/kg	1.65	0.330	5	6/ 2/01	9:11	LMcDaniel	8270C	4191
Benzo(a)pyrene	ND	mg/kg	1.65	0.330	5	6/ 2/01	9:11	LMcDaniel	8270C	4191
Benzo(b)fluoranthene	ND	mg/kg	1.65	0.330	5	6/ 2/01	9:11	LMcDaniel	8270C	4191
Benzo(g,h,i)perylene	ND	mg/kg	1.65	0.330	5	6/ 2/01	9:11	LMcDaniel	8270C	4191
Benzo(k)fluoranthene	ND	mg/kg	1.65	0.330	5	6/ 2/01	9:11	LMcDaniel	8270C	4191
4-Bromophenylphenylether	ND	mg/kg	1.65	0.330	5	6/ 2/01	9:11	LMcDaniel	8270C	4191
Butylbenzylphthalate	ND	mg/kg	1.65	0.330	5	6/ 2/01	9:11	LMcDaniel	8270C	4191
Carbazole	ND	mg/kg	1.65	0.330	5	6/ 2/01	9:11	LMcDaniel	8270C	4191
4-Chloro-3-methylphenol	ND	mg/kg	1.65	0.330	5	6/ 2/01	9:11	LMcDaniel	8270C	4191
4-Chloroaniline	ND	mg/kg	1.65	0.330	5	6/ 2/01	9:11	LMcDaniel	8270C	4191
bis(2-Chloroethoxy)methane	ND	mg/kg	1.65	0.333	5	6/ 2/01	9:11	LMcDaniel	8270C	4191
bis(2-Chloroethyl)ether	ND	mg/kg	1.65	0.333	5	6/ 2/01	9:11	LMcDaniel	8270C	4191
bis(2-Chloroisopropyl)ether	ND	mg/kg	1.65	0.333	5	6/ 2/01	9:11	LMcDaniel	8270C	4191
2-Chloronaphthalene	ND	mg/kg	1.65	0.333	5	6/ 2/01	9:11	LMcDaniel	8270C	4191
2-Chlorophenol	ND	mg/kg	1.65	0.333	5	6/ 2/01	9:11	LMcDaniel	8270C	4191
4-Chlorophenylphenylether	ND	mg/kg	1.65	0.333	5	6/ 2/01	9:11	LMcDaniel	8270C	4191
Chrysene	ND	mg/kg	1.65	0.333	5	6/ 2/01	9:11	LMcDaniel	8270C	4191
Dibenzofuran	ND	mg/kg	1.65	0.333	5	6/ 2/01	9:11	LMcDaniel	8270C	4191
Dibenz(a,h)anthracene	ND	mg/kg	1.65	0.333	5	6/ 2/01	9:11	LMcDaniel	8270C	4191
1,2-Dichlorobenzene	ND	mg/kg	1.65	0.333	5	6/ 2/01	9:11	LMcDaniel	8270C	4191
1,3-Dichlorobenzene	ND	mg/kg	1.65	0.333	5	6/ 2/01	9:11	LMcDaniel	8270C	4191
1,4-Dichlorobenzene	ND	mg/kg	1.65	0.333	5	6/ 2/01	9:11	LMcDaniel	8270C	4191

ple report continued . . .

TestAmerica
INCORPORATED

ANALYTICAL REPORT

Laboratory Number: 01-A68598
Sample ID: KB-2 21-21.5
Project: 2961A

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Date	Time	Analyst	Method	Batch
3,3'-Dichlorobenzidine	ND	mg/kg	1.65	0.330	5	6/ 2/01	9:11	LMcDaniel	8270C	4191
2,4-Dichlorophenol	ND	mg/kg	1.65	0.333	5	6/ 2/01	9:11	LMcDaniel	8270C	4191
Diethylphthalate	ND	mg/kg	1.65	0.333	5	6/ 2/01	9:11	LMcDaniel	8270C	4191
2,4-Dimethylphenol	ND	mg/kg	1.65	0.333	5	6/ 2/01	9:11	LMcDaniel	8270C	4191
Dimethylphthalate	ND	mg/kg	1.65	0.333	5	6/ 2/01	9:11	LMcDaniel	8270C	4191
Di-n-butylphthalate	ND	mg/kg	1.65	0.333	5	6/ 2/01	9:11	LMcDaniel	8270C	4191
4,6-Dinitro-2-methylphenol	ND	mg/kg	1.65	0.330	5	6/ 2/01	9:11	LMcDaniel	8270C	4191
2,4-Dinitrophenol	ND	mg/kg	1.65	0.330	5	6/ 2/01	9:11	LMcDaniel	8270C	4191
2,4-dinitrotoluene	ND	mg/kg	1.65	0.333	5	6/ 2/01	9:11	LMcDaniel	8270C	4191
2,6-Dinitrotoluene	ND	mg/kg	1.65	0.333	5	6/ 2/01	9:11	LMcDaniel	8270C	4191
Di-n-octylphthalate	ND	mg/kg	1.65	0.333	5	6/ 2/01	9:11	LMcDaniel	8270C	4191
Fluoranthene	ND	mg/kg	1.65	0.333	5	6/ 2/01	9:11	LMcDaniel	8270C	4191
Fluorene	ND	mg/kg	1.65	0.333	5	6/ 2/01	9:11	LMcDaniel	8270C	4191
Hexachlorobenzene	ND	mg/kg	1.65	0.333	5	6/ 2/01	9:11	LMcDaniel	8270C	4191
Hexachlorobutadiene	ND	mg/kg	1.65	0.333	5	6/ 2/01	9:11	LMcDaniel	8270C	4191
Hexachlorocyclopentadiene	ND	mg/kg	1.65	0.333	5	6/ 2/01	9:11	LMcDaniel	8270C	4191
Hexachloroethane	ND	mg/kg	1.65	0.333	5	6/ 2/01	9:11	LMcDaniel	8270C	4191
Indeno(1,2,3-cd)pyrene	ND	mg/kg	1.65	0.333	5	6/ 2/01	9:11	LMcDaniel	8270C	4191
Isophorone	ND	mg/kg	1.65	0.333	5	6/ 2/01	9:11	LMcDaniel	8270C	4191
2-Methylnaphthalene	ND	mg/kg	1.65	0.333	5	6/ 2/01	9:11	LMcDaniel	8270C	4191
2-Methylphenol	ND	mg/kg	1.65	0.333	5	6/ 2/01	9:11	LMcDaniel	8270C	4191
m,p-Methylphenol	ND	mg/kg	1.65	0.333	5	6/ 2/01	9:11	LMcDaniel	8270C	4191
Naphthalene	ND	mg/kg	1.65	0.333	5	6/ 2/01	9:11	LMcDaniel	8270C	4191
2-Nitroaniline	ND	mg/kg	1.65	0.330	5	6/ 2/01	9:11	LMcDaniel	8270C	4191
3-Nitroaniline	ND	mg/kg	1.65	0.330	5	6/ 2/01	9:11	LMcDaniel	8270C	4191
4-Nitroaniline	ND	mg/kg	1.65	0.330	5	6/ 2/01	9:11	LMcDaniel	8270C	4191
Nitrobenzene	ND	mg/kg	1.65	0.333	5	6/ 2/01	9:11	LMcDaniel	8270C	4191
2-Nitrophenol	ND	mg/kg	1.65	0.333	5	6/ 2/01	9:11	LMcDaniel	8270C	4191
4-Nitrophenol	ND	mg/kg	1.65	0.330	5	6/ 2/01	9:11	LMcDaniel	8270C	4191
N-nitrosodi-n-propylamine	ND	mg/kg	1.65	0.333	5	6/ 2/01	9:11	LMcDaniel	8270C	4191
N-nitrosodiphenylamine	ND	mg/kg	1.65	0.333	5	6/ 2/01	9:11	LMcDaniel	8270C	4191
Pentachlorophenol	ND	mg/kg	1.65	0.330	5	6/ 2/01	9:11	LMcDaniel	8270C	4191
Phenanthrene	ND	mg/kg	1.65	0.333	5	6/ 2/01	9:11	LMcDaniel	8270C	4191
Phenol	ND	mg/kg	1.65	0.333	5	6/ 2/01	9:11	LMcDaniel	8270C	4191

ıple report continued . . .

TestAmerica
INCORPORATED

ANALYTICAL REPORT

Laboratory Number: 01-A68598
Sample ID: KB-2 21-21.5
Project: 2961A

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Date	Time	Analyst	Method	Batch
Pyrene	ND	mg/kg	1.65	0.333	5	6/ 2/01	9:11	LMcDaniel	8270C	4191
Bis(2-ethylhexyl)phthalate	ND	mg/kg	1.65	0.333	5	6/ 2/01	9:11	LMcDaniel	8270C	4191
1,2,4-Trichlorobenzene	ND	mg/kg	1.65	0.333	5	6/ 2/01	9:11	LMcDaniel	8270C	4191
2,4,5-Trichlorophenol	ND	mg/kg	1.65	0.330	5	6/ 2/01	9:11	LMcDaniel	8270C	4191
2,4,6-Trichlorophenol	ND	mg/kg	1.65	0.333	5	6/ 2/01	9:11	LMcDaniel	8270C	4191
VOLATILE ORGANICS										
Acetone	ND	mg/kg	0.0500	0.0500	1	5/30/01	0:11	S. Wani	8260B	7065
Benzene	ND	mg/kg	0.0020	0.0020	1	5/30/01	0:11	S. Wani	8260B	7065
Bromobenzene	ND	mg/kg	0.0020	0.0020	1	5/30/01	0:11	S. Wani	8260B	7065
Bromochloromethane	ND	mg/kg	0.0020	0.0020	1	5/30/01	0:11	S. Wani	8260B	7065
Bromoform	ND	mg/kg	0.0020	0.0020	1	5/30/01	0:11	S. Wani	8260B	7065
Bromomethane	ND	mg/kg	0.0020	0.0020	1	5/30/01	0:11	S. Wani	8260B	7065
2-Butanone	ND	mg/kg	0.0500	0.0500	1	5/30/01	0:11	S. Wani	8260B	7065
n-Butylbenzene	ND	mg/kg	0.0020	0.0020	1	5/30/01	0:11	S. Wani	8260B	7065
sec-Butylbenzene	ND	mg/kg	0.0020	0.0020	1	5/30/01	0:11	S. Wani	8260B	7065
t-Butylbenzene	ND	mg/kg	0.0020	0.0020	1	5/30/01	0:11	S. Wani	8260B	7065
Carbon disulfide	ND	mg/kg	0.0020	0.0020	1	5/30/01	0:11	S. Wani	8260B	7065
Carbon tetrachloride	ND	mg/kg	0.0020	0.0020	1	5/30/01	0:11	S. Wani	8260B	7065
Chlorobenzene	ND	mg/kg	0.0020	0.0020	1	5/30/01	0:11	S. Wani	8260B	7065
Chloroethane	ND	mg/kg	0.0020	0.0020	1	5/30/01	0:11	S. Wani	8260B	7065
Chloroform	ND	mg/kg	0.0020	0.0020	1	5/30/01	0:11	S. Wani	8260B	7065
Chloromethane	ND	mg/kg	0.0020	0.0020	1	5/30/01	0:11	S. Wani	8260B	7065
2-Chlorotoluene	ND	mg/kg	0.0020	0.0020	1	5/30/01	0:11	S. Wani	8260B	7065
4-Chlorotoluene	ND	mg/kg	0.0020	0.0020	1	5/30/01	0:11	S. Wani	8260B	7065
1,2-Dibromo-3-chloropropane	ND	mg/kg	0.0100	0.0100	1	5/30/01	0:11	S. Wani	8260B	7065
Dibromochloromethane	ND	mg/kg	0.0020	0.0020	1	5/30/01	0:11	S. Wani	8260B	7065
1,2-Dibromoethane	ND	mg/kg	0.0020	0.0020	1	5/30/01	0:11	S. Wani	8260B	7065
Dibromomethane	ND	mg/kg	0.0020	0.0020	1	5/30/01	0:11	S. Wani	8260B	7065
1,2-Dichlorobenzene	ND	mg/kg	0.0020	0.0020	1	5/30/01	0:11	S. Wani	8260B	7065
1,3-Dichlorobenzene	ND	mg/kg	0.0020	0.0020	1	5/30/01	0:11	S. Wani	8260B	7065
1,4-Dichlorobenzene	ND	mg/kg	0.0020	0.0020	1	5/30/01	0:11	S. Wani	8260B	7065
Dichlorodifluoromethane	ND	mg/kg	0.0020	0.0020	1	5/30/01	0:11	S. Wani	8260B	7065
1,1-Dichloroethane	ND	mg/kg	0.0020	0.0020	1	5/30/01	0:11	S. Wani	8260B	7065

ple report continued . . .

TestAmerica
INCORPORATED

ANALYTICAL REPORT

Laboratory Number: 01-A68598
Sample ID: KB-2 21-21.5
Project: 2961A

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Date	Time	Analyst	Method	Batch
1,2-Dichloroethane	ND	mg/kg	0.0020	0.0020	1	5/30/01	0:11	S. Wani	8260B	7065
1,1-Dichloroethene	ND	mg/kg	0.0020	0.0020	1	5/30/01	0:11	S. Wani	8260B	7065
cis-1,2-Dichloroethene	ND	mg/kg	0.0020	0.0020	1	5/30/01	0:11	S. Wani	8260B	7065
trans-1,2-Dichloroethene	ND	mg/kg	0.0020	0.0020	1	5/30/01	0:11	S. Wani	8260B	7065
1,2-Dichloropropane	ND	mg/kg	0.0020	0.0020	1	5/30/01	0:11	S. Wani	8260B	7065
1,3-Dichloropropane	ND	mg/kg	0.0020	0.0020	1	5/30/01	0:11	S. Wani	8260B	7065
2,2-Dichloropropane	ND	mg/kg	0.0020	0.0020	1	5/30/01	0:11	S. Wani	8260B	7065
1,1-Dichloropropene	ND	mg/kg	0.0020	0.0020	1	5/30/01	0:11	S. Wani	8260B	7065
cis-1,3-Dichloropropene	ND	mg/kg	0.0020	0.0020	1	5/30/01	0:11	S. Wani	8260B	7065
trans-1,3-Dichloropropene	ND	mg/kg	0.0020	0.0020	1	5/30/01	0:11	S. Wani	8260B	7065
Ethylbenzene	ND	mg/kg	0.0020	0.0020	1	5/30/01	0:11	S. Wani	8260B	7065
Hexachlorobutadiene	ND	mg/kg	0.0020	0.0020	1	5/30/01	0:11	S. Wani	8260B	7065
2-Hexanone	ND	mg/kg	0.0100	0.0100	1	5/30/01	0:11	S. Wani	8260B	7065
Isopropylbenzene	ND	mg/kg	0.0020	0.0020	1	5/30/01	0:11	S. Wani	8260B	7065
4-Isopropyltoluene	ND	mg/kg	0.0020	0.0020	1	5/30/01	0:11	S. Wani	8260B	7065
4-Methyl-2-pentanone	ND	mg/kg	0.0100	0.0100	1	5/30/01	0:11	S. Wani	8260B	7065
Methylene chloride	ND	mg/kg	0.0050	0.0050	1	5/30/01	0:11	S. Wani	8260B	7065
Naphthalene	ND	mg/kg	0.0050	0.0050	1	5/30/01	0:11	S. Wani	8260B	7065
n-Propylbenzene	ND	mg/kg	0.0020	0.0020	1	5/30/01	0:11	S. Wani	8260B	7065
Styrene	ND	mg/kg	0.0020	0.0020	1	5/30/01	0:11	S. Wani	8260B	7065
1,1,1,2-Tetrachloroethane	ND	mg/kg	0.0020	0.0020	1	5/30/01	0:11	S. Wani	8260B	7065
1,1,2,2-Tetrachloroethane	ND	mg/kg	0.0020	0.0020	1	5/30/01	0:11	S. Wani	8260B	7065
Tetrachloroethene	ND	mg/kg	0.0020	0.0020	1	5/30/01	0:11	S. Wani	8260B	7065
Toluene	ND	mg/kg	0.0020	0.0020	1	5/30/01	0:11	S. Wani	8260B	7065
1,2,3-Trichlorobenzene	ND	mg/kg	0.0020	0.0020	1	5/30/01	0:11	S. Wani	8260B	7065
1,2,4-Trichlorobenzene	ND	mg/kg	0.0020	0.0020	1	5/30/01	0:11	S. Wani	8260B	7065
1,1,1-Trichloroethane	ND	mg/kg	0.0020	0.0020	1	5/30/01	0:11	S. Wani	8260B	7065
1,1,2-Trichloroethane	ND	mg/kg	0.0020	0.0020	1	5/30/01	0:11	S. Wani	8260B	7065
Trichloroethene	ND	mg/kg	0.0020	0.0020	1	5/30/01	0:11	S. Wani	8260B	7065
1,2,3-Trichloropropane	ND	mg/kg	0.0020	0.0020	1	5/30/01	0:11	S. Wani	8260B	7065
1,2,4-Trimethylbenzene	ND	mg/kg	0.0020	0.0020	1	5/30/01	0:11	S. Wani	8260B	7065
1,3,5-Trimethylbenzene	ND	mg/kg	0.0020	0.0020	1	5/30/01	0:11	S. Wani	8260B	7065
Vinyl chloride	ND	mg/kg	0.0020	0.0020	1	5/30/01	0:11	S. Wani	8260B	7065
Xylenes, Total	ND	mg/kg	0.0020	0.0020	1	5/30/01	0:11	S. Wani	8260B	7065

ple report continued . . .

TestAmerica
INCORPORATED

ANALYTICAL REPORT

Laboratory Number: 01-A68598
Sample ID: KB-2 21-21.5
Project: 2961A
Page 5

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Date	Time	Analyst	Method	Batch
Bromodichloromethane	ND	mg/kg	0.0020	0.0020	1	5/30/01	0:11	S. Wani	8260B	7065
Trichlorofluoromethane	ND	mg/kg	0.0020	0.0020	1	5/30/01	0:11	S. Wani	8260B	7065
PESTICIDE/PCB's/HERBICIDES										
Aroclor 1016	ND	mg/kg	0.0200	0.0200	1	5/25/01	17:07	M. Cauthen	8082	8363
Aroclor 1221	ND	mg/kg	0.0200	0.0200	1	5/25/01	17:07	M. Cauthen	8082	8363
Aroclor 1232	ND	mg/kg	0.0200	0.0200	1	5/25/01	17:07	M. Cauthen	8082	8363
Aroclor 1242	ND	mg/kg	0.0200	0.0200	1	5/25/01	17:07	M. Cauthen	8082	8363
Aroclor 1248	ND	mg/kg	0.0200	0.0200	1	5/25/01	17:07	M. Cauthen	8082	8363
Aroclor 1254	ND	mg/kg	0.0200	0.0200	1	5/25/01	17:07	M. Cauthen	8082	8363
Aroclor 1260	ND	mg/kg	0.0200	0.0200	1	5/25/01	17:07	M. Cauthen	8082	8363
METALS										
Arsenic	ND	mg/kg	0.990	0.990	1	5/24/01	16:34	G.McCord	6010B	7298
Barium	23.4	mg/kg	0.990	0.990	1	5/24/01	16:34	G.McCord	6010B	7298
Cadmium	ND	mg/kg	0.990	0.990	1	5/24/01	16:34	G.McCord	6010B	7298
Chromium	1.98	mg/kg	0.990	0.990	1	5/24/01	16:34	G.McCord	6010B	7298
Copper	23.8	mg/kg	0.990	0.990	1	5/24/01	16:34	G.McCord	6010B	7298
Lead	2.57	mg/kg	0.990	0.990	1	5/24/01	16:34	G.McCord	6010B	7298
Mercury	ND	mg/kg	0.096	0.096	1	5/24/01	12:44	C. Terry	7471	7307
Selenium	ND	mg/kg	0.990	0.990	1	5/24/01	16:34	G.McCord	6010B	7298
Silver	ND	mg/kg	0.990	0.990	1	5/24/01	16:34	G.McCord	6010B	7298
Semi-volatile report limit elevated due to sample matrix.										
pH	7.50	pH units			1	5/25/01	11:27	K.Bundy	9045	7168

ND - Not detected at the report limit.

ample report continued . . .

TestAmerica
INCORPORATED

ANALYTICAL REPORT

Laboratory Number: 01-A68598
Sample ID: KB-2 21-21.5
Project: 2961A

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Time	Analyst	Method
BNA's	30.0 gm	1.0 ml	6/ 1/01		J. Rudden	3550
PCB's	30.1 gm	10.0 ml	5/23/01		J. Rudden	3550

Surrogate	% Recovery	Target Range
surr-1,2-Dichloroethane, d4	98.	50. - 140.
surr-Toluene d8	99.	75. - 141.
surr-4-Bromofluorobenzene	99.	69. - 131.
surr-Dibromofluoromethane	98.	76. - 136.
BNA Surr-Nitrobenzene-d5	68.	26. - 110.
BNA Surr-2-Fluorobiphenyl	84.	28. - 112.
BNA Surr-Terphenyl d14	88.	40. - 124.
BNA Surr-Phenol d5	86.	29. - 121.
BNA Surr-2-Fluorophenol	76.	20. - 113.
BNA Surr-2,4,6-Tribromophenol	106.	29. - 144.
pcb surr-TCMX	90.	23. - 156.
pcb surr-DCB	72.	15. - 130.

- Recovery outside Laboratory historical limits.

All results reported on a wet weight basis.

Sample for pH analysis received outside method prescribed holding time.

ıple report continued . . .

TestAmerica
INCORPORATED

ANALYTICAL REPORT

Laboratory Number: 01-A68598
Sample ID: KB-2 21-21.5
Project: 2961A
Page 7

These results relate only to the items tested.
This report shall not be reproduced except in full and with permission of the laboratory.

Report Approved By: _____ Report Date: 6/ 1/01

Paul E. Lane, Jr., Lab Director
Michael H. Dunn, M.S., Technical Director
Johnny A. Mitchell, Dir. Technical Serv.
Eric S. Smith, Assistant Technical Director
Gail A. Lage, Technical Serv.
Glenn L. Norton, Technical Serv.
Kelly S. Comstock, Technical Serv.
Pamela A. Langford, Technical Serv.

Laboratory Certification Number: AZ0473

'nd of Sample Report.

TestAmerica
INCORPORATED

ANALYTICAL REPORT

KERAMIDA ENVIRONMENTAL 6028
KRISTEN BELLCREDI
330 N. COLLEGE AVENUE
INDIANAPOLIS, IN 46202

Project: 2961A
Project Name: FRUEHAUF-PHOENIX
Sampler: B.H.

Lab Number: 01-A68599
Sample ID: KB-3 0.5-1.5
Sample Type: Soil
Site ID:

Date Collected: 5/21/01
Time Collected: 14:35
Date Received: 5/23/01
Time Received: 9:00

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Date	Time	Analyst	Method	Batch
EXTRACTABLE ORGANICS										
Acenaphthene	ND	mg/kg	0.330	0.330	1	5/26/01	2:59	Jeanmarie	8270C	8348
Acenaphthylene	ND	mg/kg	0.330	0.330	1	5/26/01	2:59	Jeanmarie	8270C	8348
Anthracene	ND	mg/kg	0.330	0.330	1	5/26/01	2:59	Jeanmarie	8270C	8348
Benzo(a)anthracene	ND	mg/kg	0.330	0.330	1	5/26/01	2:59	Jeanmarie	8270C	8348
Benzo(a)pyrene	ND	mg/kg	0.330	0.330	1	5/26/01	2:59	Jeanmarie	8270C	8348
Benzo(b)fluoranthene	ND	mg/kg	0.330	0.330	1	5/26/01	2:59	Jeanmarie	8270C	8348
Benzo(g,h,i)perylene	ND	mg/kg	0.330	0.330	1	5/26/01	2:59	Jeanmarie	8270C	8348
Benzo(k)fluoranthene	ND	mg/kg	0.330	0.330	1	5/26/01	2:59	Jeanmarie	8270C	8348
4-Bromophenylphenylether	ND	mg/kg	0.330	0.330	1	5/26/01	2:59	Jeanmarie	8270C	8348
Butylbenzylphthalate	ND	mg/kg	0.330	0.330	1	5/26/01	2:59	Jeanmarie	8270C	8348
Carbazole	ND	mg/kg	0.330	0.330	1	5/26/01	2:59	Jeanmarie	8270C	8348
4-Chloro-3-methylphenol	ND	mg/kg	0.330	0.330	1	5/26/01	2:59	Jeanmarie	8270C	8348
4-Chloroaniline	ND	mg/kg	0.330	0.330	1	5/26/01	2:59	Jeanmarie	8270C	8348
bis(2-Chloroethoxy)methane	ND	mg/kg	0.330	0.330	1	5/26/01	2:59	Jeanmarie	8270C	8348
bis(2-Chloroethyl)ether	ND	mg/kg	0.330	0.330	1	5/26/01	2:59	Jeanmarie	8270C	8348
bis(2-Chloroisopropyl)ether	ND	mg/kg	0.330	0.330	1	5/26/01	2:59	Jeanmarie	8270C	8348
2-Chloronaphthalene	ND	mg/kg	0.330	0.330	1	5/26/01	2:59	Jeanmarie	8270C	8348
2-Chlorophenol	ND	mg/kg	0.330	0.330	1	5/26/01	2:59	Jeanmarie	8270C	8348
4-Chlorophenylphenylether	ND	mg/kg	0.330	0.330	1	5/26/01	2:59	Jeanmarie	8270C	8348
Chrysene	ND	mg/kg	0.330	0.330	1	5/26/01	2:59	Jeanmarie	8270C	8348
Dibenzofuran	ND	mg/kg	0.330	0.330	1	5/26/01	2:59	Jeanmarie	8270C	8348
Dibenz(a,h)anthracene	ND	mg/kg	0.330	0.330	1	5/26/01	2:59	Jeanmarie	8270C	8348
1,2-Dichlorobenzene	ND	mg/kg	0.330	0.330	1	5/26/01	2:59	Jeanmarie	8270C	8348
1,3-Dichlorobenzene	ND	mg/kg	0.330	0.330	1	5/26/01	2:59	Jeanmarie	8270C	8348
1,4-Dichlorobenzene	ND	mg/kg	0.330	0.330	1	5/26/01	2:59	Jeanmarie	8270C	8348

mple report continued . . .

TestAmerica
INCORPORATED

ANALYTICAL REPORT

Laboratory Number: 01-A68599
Sample ID: KB-3 0.5-1.5
Project: 2961A

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Date	Time	Analyst	Method	Batch
3,3'-Dichlorobenzidine	ND	mg/kg	0.330	0.330	1	5/26/01	2:59	Jeanmarie	8270C	8348
2,4-Dichlorophenol	ND	mg/kg	0.330	0.330	1	5/26/01	2:59	Jeanmarie	8270C	8348
Diethylphthalate	ND	mg/kg	0.330	0.330	1	5/26/01	2:59	Jeanmarie	8270C	8348
2,4-Dimethylphenol	ND	mg/kg	0.330	0.330	1	5/26/01	2:59	Jeanmarie	8270C	8348
Dimethylphthalate	ND	mg/kg	0.330	0.330	1	5/26/01	2:59	Jeanmarie	8270C	8348
Di-n-butylphthalate	ND	mg/kg	0.330	0.330	1	5/26/01	2:59	Jeanmarie	8270C	8348
4,6-Dinitro-2-methylphenol	ND	mg/kg	0.330	0.330	1	5/26/01	2:59	Jeanmarie	8270C	8348
2,4-Dinitrophenol	ND	mg/kg	0.330	0.330	1	5/26/01	2:59	Jeanmarie	8270C	8348
2,4-dinitrotoluene	ND	mg/kg	0.330	0.330	1	5/26/01	2:59	Jeanmarie	8270C	8348
2,6-Dinitrotoluene	ND	mg/kg	0.330	0.330	1	5/26/01	2:59	Jeanmarie	8270C	8348
Di-n-octylphthalate	ND	mg/kg	0.330	0.330	1	5/26/01	2:59	Jeanmarie	8270C	8348
Fluoranthene	ND	mg/kg	0.330	0.330	1	5/26/01	2:59	Jeanmarie	8270C	8348
Fluorene	ND	mg/kg	0.330	0.330	1	5/26/01	2:59	Jeanmarie	8270C	8348
Hexachlorobenzene	ND	mg/kg	0.330	0.330	1	5/26/01	2:59	Jeanmarie	8270C	8348
Hexachlorobutadiene	ND	mg/kg	0.330	0.330	1	5/26/01	2:59	Jeanmarie	8270C	8348
Hexachlorocyclopentadiene	ND	mg/kg	0.330	0.330	1	5/26/01	2:59	Jeanmarie	8270C	8348
Hexachloroethane	ND	mg/kg	0.330	0.330	1	5/26/01	2:59	Jeanmarie	8270C	8348
Indeno(1,2,3-cd)pyrene	ND	mg/kg	0.330	0.330	1	5/26/01	2:59	Jeanmarie	8270C	8348
Isophorone	ND	mg/kg	0.330	0.330	1	5/26/01	2:59	Jeanmarie	8270C	8348
2-Methylnaphthalene	ND	mg/kg	0.330	0.330	1	5/26/01	2:59	Jeanmarie	8270C	8348
2-Methylphenol	ND	mg/kg	0.330	0.330	1	5/26/01	2:59	Jeanmarie	8270C	8348
m,p-Methylphenol	ND	mg/kg	0.330	0.330	1	5/26/01	2:59	Jeanmarie	8270C	8348
Naphthalene	ND	mg/kg	0.330	0.330	1	5/26/01	2:59	Jeanmarie	8270C	8348
2-Nitroaniline	ND	mg/kg	0.330	0.330	1	5/26/01	2:59	Jeanmarie	8270C	8348
3-Nitroaniline	ND	mg/kg	0.330	0.330	1	5/26/01	2:59	Jeanmarie	8270C	8348
4-Nitroaniline	ND	mg/kg	0.330	0.330	1	5/26/01	2:59	Jeanmarie	8270C	8348
Nitrobenzene	ND	mg/kg	0.330	0.330	1	5/26/01	2:59	Jeanmarie	8270C	8348
2-Nitrophenol	ND	mg/kg	0.330	0.330	1	5/26/01	2:59	Jeanmarie	8270C	8348
4-Nitrophenol	ND	mg/kg	0.330	0.330	1	5/26/01	2:59	Jeanmarie	8270C	8348
N-nitrosodi-n-propylamine	ND	mg/kg	0.330	0.330	1	5/26/01	2:59	Jeanmarie	8270C	8348
N-nitrosodiphenylamine	ND	mg/kg	0.330	0.330	1	5/26/01	2:59	Jeanmarie	8270C	8348
Pentachlorophenol	ND	mg/kg	0.330	0.330	1	5/26/01	2:59	Jeanmarie	8270C	8348
Phenanthrene	ND	mg/kg	0.330	0.330	1	5/26/01	2:59	Jeanmarie	8270C	8348
Phenol	ND	mg/kg	0.330	0.330	1	5/26/01	2:59	Jeanmarie	8270C	8348

mple report continued . . .

TestAmerica
INCORPORATED

ANALYTICAL REPORT

Laboratory Number: 01-A68599
Sample ID: KB-3 0.5-1.5
Project: 2961A

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Date	Time	Analyst	Method	Batch
Pyrene	ND	mg/kg	0.330	0.330	1	5/26/01	2:59	Jeanmarie	8270C	8348
Bis(2-ethylhexyl)phthalate	ND	mg/kg	0.330	0.330	1	5/26/01	2:59	Jeanmarie	8270C	8348
1,2,4-Trichlorobenzene	ND	mg/kg	0.330	0.330	1	5/26/01	2:59	Jeanmarie	8270C	8348
2,4,5-Trichlorophenol	ND	mg/kg	0.330	0.330	1	5/26/01	2:59	Jeanmarie	8270C	8348
2,4,6-Trichlorophenol	ND	mg/kg	0.330	0.330	1	5/26/01	2:59	Jeanmarie	8270C	8348
VOLATILE ORGANICS										
Acetone	ND	mg/kg	0.0500	0.0500	1	5/30/01	0:50	S. Wani	8260B	7065
Benzene	ND	mg/kg	0.0020	0.0020	1	5/30/01	0:50	S. Wani	8260B	7065
Bromobenzene	ND	mg/kg	0.0020	0.0020	1	5/30/01	0:50	S. Wani	8260B	7065
Bromochloromethane	ND	mg/kg	0.0020	0.0020	1	5/30/01	0:50	S. Wani	8260B	7065
Bromoform	ND	mg/kg	0.0020	0.0020	1	5/30/01	0:50	S. Wani	8260B	7065
Bromomethane	ND	mg/kg	0.0020	0.0020	1	5/30/01	0:50	S. Wani	8260B	7065
2-Butanone	ND	mg/kg	0.0500	0.0500	1	5/30/01	0:50	S. Wani	8260B	7065
n-Butylbenzene	ND	mg/kg	0.0020	0.0020	1	5/30/01	0:50	S. Wani	8260B	7065
sec-Butylbenzene	ND	mg/kg	0.0020	0.0020	1	5/30/01	0:50	S. Wani	8260B	7065
t-Butylbenzene	ND	mg/kg	0.0020	0.0020	1	5/30/01	0:50	S. Wani	8260B	7065
Carbon disulfide	ND	mg/kg	0.0020	0.0020	1	5/30/01	0:50	S. Wani	8260B	7065
Carbon tetrachloride	ND	mg/kg	0.0020	0.0020	1	5/30/01	0:50	S. Wani	8260B	7065
Chlorobenzene	ND	mg/kg	0.0020	0.0020	1	5/30/01	0:50	S. Wani	8260B	7065
Chloroethane	ND	mg/kg	0.0020	0.0020	1	5/30/01	0:50	S. Wani	8260B	7065
Chloroform	ND	mg/kg	0.0020	0.0020	1	5/30/01	0:50	S. Wani	8260B	7065
Chloromethane	ND	mg/kg	0.0020	0.0020	1	5/30/01	0:50	S. Wani	8260B	7065
2-Chlorotoluene	ND	mg/kg	0.0020	0.0020	1	5/30/01	0:50	S. Wani	8260B	7065
4-Chlorotoluene	ND	mg/kg	0.0020	0.0020	1	5/30/01	0:50	S. Wani	8260B	7065
1,2-Dibromo-3-chloropropane	ND	mg/kg	0.0100	0.0100	1	5/30/01	0:50	S. Wani	8260B	7065
Dibromochloromethane	ND	mg/kg	0.0020	0.0020	1	5/30/01	0:50	S. Wani	8260B	7065
1,2-Dibromoethane	ND	mg/kg	0.0020	0.0020	1	5/30/01	0:50	S. Wani	8260B	7065
Dibromomethane	ND	mg/kg	0.0020	0.0020	1	5/30/01	0:50	S. Wani	8260B	7065
1,2-Dichlorobenzene	ND	mg/kg	0.0020	0.0020	1	5/30/01	0:50	S. Wani	8260B	7065
1,3-Dichlorobenzene	ND	mg/kg	0.0020	0.0020	1	5/30/01	0:50	S. Wani	8260B	7065
1,4-Dichlorobenzene	ND	mg/kg	0.0020	0.0020	1	5/30/01	0:50	S. Wani	8260B	7065
Dichlorodifluoromethane	ND	mg/kg	0.0020	0.0020	1	5/30/01	0:50	S. Wani	8260B	7065
1,1-Dichloroethane	ND	mg/kg	0.0020	0.0020	1	5/30/01	0:50	S. Wani	8260B	7065

mple report continued . . .

TestAmerica
INCORPORATED

ANALYTICAL REPORT

Laboratory Number: 01-A68599
Sample ID: KB-3 0.5-1.5
Project: 2961A
Page 4

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Date	Time	Analyst	Method	Batch
1,2-Dichloroethane	ND	mg/kg	0.0020	0.0020	1	5/30/01	0:50	S. Wani	8260B	7065
1,1-Dichloroethene	ND	mg/kg	0.0020	0.0020	1	5/30/01	0:50	S. Wani	8260B	7065
cis-1,2-Dichloroethene	ND	mg/kg	0.0020	0.0020	1	5/30/01	0:50	S. Wani	8260B	7065
trans-1,2-Dichloroethene	ND	mg/kg	0.0020	0.0020	1	5/30/01	0:50	S. Wani	8260B	7065
1,2-Dichloropropane	ND	mg/kg	0.0020	0.0020	1	5/30/01	0:50	S. Wani	8260B	7065
1,3-Dichloropropane	ND	mg/kg	0.0020	0.0020	1	5/30/01	0:50	S. Wani	8260B	7065
2,2-Dichloropropane	ND	mg/kg	0.0020	0.0020	1	5/30/01	0:50	S. Wani	8260B	7065
1,1-Dichloropropene	ND	mg/kg	0.0020	0.0020	1	5/30/01	0:50	S. Wani	8260B	7065
cis-1,3-Dichloropropene	ND	mg/kg	0.0020	0.0020	1	5/30/01	0:50	S. Wani	8260B	7065
trans-1,3-Dichloropropene	ND	mg/kg	0.0020	0.0020	1	5/30/01	0:50	S. Wani	8260B	7065
Ethylbenzene	ND	mg/kg	0.0020	0.0020	1	5/30/01	0:50	S. Wani	8260B	7065
Hexachlorobutadiene	ND	mg/kg	0.0020	0.0020	1	5/30/01	0:50	S. Wani	8260B	7065
2-Hexanone	ND	mg/kg	0.0100	0.0100	1	5/30/01	0:50	S. Wani	8260B	7065
Isopropylbenzene	ND	mg/kg	0.0020	0.0020	1	5/30/01	0:50	S. Wani	8260B	7065
4-Isopropyltoluene	ND	mg/kg	0.0020	0.0020	1	5/30/01	0:50	S. Wani	8260B	7065
4-Methyl-2-pentanone	ND	mg/kg	0.0100	0.0100	1	5/30/01	0:50	S. Wani	8260B	7065
Methylene chloride	ND	mg/kg	0.0050	0.0050	1	5/30/01	0:50	S. Wani	8260B	7065
Naphthalene	ND	mg/kg	0.0050	0.0050	1	5/30/01	0:50	S. Wani	8260B	7065
n-Propylbenzene	ND	mg/kg	0.0020	0.0020	1	5/30/01	0:50	S. Wani	8260B	7065
Styrene	ND	mg/kg	0.0020	0.0020	1	5/30/01	0:50	S. Wani	8260B	7065
1,1,1,2-Tetrachloroethane	ND	mg/kg	0.0020	0.0020	1	5/30/01	0:50	S. Wani	8260B	7065
1,1,2,2-Tetrachloroethane	ND	mg/kg	0.0020	0.0020	1	5/30/01	0:50	S. Wani	8260B	7065
Tetrachloroethene	ND	mg/kg	0.0020	0.0020	1	5/30/01	0:50	S. Wani	8260B	7065
Toluene	ND	mg/kg	0.0020	0.0020	1	5/30/01	0:50	S. Wani	8260B	7065
1,2,3-Trichlorobenzene	ND	mg/kg	0.0020	0.0020	1	5/30/01	0:50	S. Wani	8260B	7065
1,2,4-Trichlorobenzene	ND	mg/kg	0.0020	0.0020	1	5/30/01	0:50	S. Wani	8260B	7065
1,1,1-Trichloroethane	ND	mg/kg	0.0020	0.0020	1	5/30/01	0:50	S. Wani	8260B	7065
1,1,2-Trichloroethane	ND	mg/kg	0.0020	0.0020	1	5/30/01	0:50	S. Wani	8260B	7065
Trichloroethene	ND	mg/kg	0.0020	0.0020	1	5/30/01	0:50	S. Wani	8260B	7065
1,2,3-Trichloropropane	ND	mg/kg	0.0020	0.0020	1	5/30/01	0:50	S. Wani	8260B	7065
1,2,4-Trimethylbenzene	ND	mg/kg	0.0020	0.0020	1	5/30/01	0:50	S. Wani	8260B	7065
1,3,5-Trimethylbenzene	ND	mg/kg	0.0020	0.0020	1	5/30/01	0:50	S. Wani	8260B	7065
Vinyl chloride	ND	mg/kg	0.0020	0.0020	1	5/30/01	0:50	S. Wani	8260B	7065
Xylenes, Total	ND	mg/kg	0.0020	0.0020	1	5/30/01	0:50	S. Wani	8260B	7065

nple report continued . . .

TestAmerica
INCORPORATED

ANALYTICAL REPORT

Laboratory Number: 01-A68599
Sample ID: KB-3 0.5-1.5
Project: 2961A

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Date	Time	Analyst	Method	Batch
Bromodichloromethane	ND	mg/kg	0.0020	0.0020	1	5/30/01	0:50	S. Wani	8260B	7065
Trichlorofluoromethane	ND	mg/kg	0.0020	0.0020	1	5/30/01	0:50	S. Wani	8260B	7065
PESTICIDE/PCB's/HERBICIDES										
Aroclor 1016	ND	mg/kg	0.0200	0.0200	1	5/25/01	17:31	M. Cauthen	8082	8363
Aroclor 1221	ND	mg/kg	0.0200	0.0200	1	5/25/01	17:31	M. Cauthen	8082	8363
Aroclor 1232	ND	mg/kg	0.0200	0.0200	1	5/25/01	17:31	M. Cauthen	8082	8363
Aroclor 1242	ND	mg/kg	0.0200	0.0200	1	5/25/01	17:31	M. Cauthen	8082	8363
Aroclor 1248	ND	mg/kg	0.0200	0.0200	1	5/25/01	17:31	M. Cauthen	8082	8363
Aroclor 1254	ND	mg/kg	0.0200	0.0200	1	5/25/01	17:31	M. Cauthen	8082	8363
Aroclor 1260	0.0450	mg/kg	0.0200	0.0200	1	5/25/01	17:31	M. Cauthen	8082	8363
METALS										
Arsenic	2.37	mg/kg	0.988	0.988	1	5/24/01	16:34	G.McCord	6010B	7298
Barium	40.7	mg/kg	0.988	0.988	1	5/24/01	16:34	G.McCord	6010B	7298
Cadmium	ND	mg/kg	0.988	0.988	1	5/24/01	16:34	G.McCord	6010B	7298
Chromium	1.38	mg/kg	0.988	0.988	1	5/24/01	16:34	G.McCord	6010B	7298
Copper	7.90	mg/kg	0.988	0.988	1	5/24/01	16:34	G.McCord	6010B	7298
Lead	23.7	mg/kg	0.988	0.988	1	5/24/01	16:34	G.McCord	6010B	7298
Mercury	0.122	mg/kg	0.099	0.099	1	5/24/01	12:44	C. Terry	7471	7307
Selenium	ND	mg/kg	0.988	0.988	1	5/24/01	16:34	G.McCord	6010B	7298
Silver	ND	mg/kg	0.988	0.988	1	5/24/01	16:34	G.McCord	6010B	7298
pH	7.90	pH units			1	5/25/01	11:29	K.Bundy	9045	7168

ND - Not detected at the report limit.

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Time	Analyst	Method
BNA's	30.4 gm	1.0 ml	5/23/01		J. Rudden	3550

nple report continued . . .

TestAmerica
INCORPORATED

ANALYTICAL REPORT

Laboratory Number: 01-A68599
Sample ID: KB-3 0.5-1.5
Project: 2961A

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Time	Analyst	Method
PCB's	30.5 gm	10.0 ml	5/23/01		J. Rudden	3550

Surrogate	% Recovery	Target Range
surr-1,2-Dichloroethane, d4	97.	50. - 140.
surr-Toluene d8	100.	75. - 141.
surr-4-Bromofluorobenzene	100.	69. - 131.
surr-Dibromofluoromethane	98.	76. - 136.
BNA Surr-Nitrobenzene-d5	69.	26. - 110.
BNA Surr-2-Fluorobiphenyl	70.	28. - 112.
BNA Surr-Terphenyl d14	82.	40. - 124.
BNA Surr-Phenol d5	82.	29. - 121.
BNA Surr-2-Fluorophenol	74.	20. - 113.
BNA Surr-2,4,6-Tribromophenol	101.	29. - 144.
pcb surr-TCMX	112.	23. - 156.
pcb surr-DCB	102.	15. - 130.

- Recovery outside Laboratory historical limits.

All results reported on a wet weight basis.

Sample for pH analysis received outside method prescribed holding time.

mple report continued . . .

TestAmerica
INCORPORATED

ANALYTICAL REPORT

Laboratory Number: 01-A68599
Sample ID: KB-3 0.5-1.5
Project: 2961A
Page 7

These results relate only to the items tested.
This report shall not be reproduced except in full and with permission of the laboratory.

Report Approved By: Gail Lage Report Date: 6/ 1/01

Paul E. Lane, Jr., Lab Director
Michael H. Dunn, M.S., Technical Director
Johnny A. Mitchell, Dir. Technical Serv.
Eric S. Smith, Assistant Technical Director
Gail A. Lage, Technical Serv.
Glenn L. Norton, Technical Serv.
Kelly S. Comstock, Technical Serv.
Pamela A. Langford, Technical Serv.

Laboratory Certification Number: AZ0473

End of Sample Report.

2960 Foster Creighton Drive / Nashville,TN 37204 / 615-726-0177 / Fax: 615-726-0954 / 800-765-0980

TestAmerica
INCORPORATED

ANALYTICAL REPORT

KERAMIDA ENVIRONMENTAL 6028
KRISTEN BELLCREDI
330 N. COLLEGE AVENUE
INDIANAPOLIS, IN 46202

Project: 2961A
Project Name: FRUEHAUF-PHOENIX
Sampler: B.H.

Lab Number: 01-A68600
Sample ID: KB-3 10.5-12
Sample Type: Soil
Site ID:

Date Collected: 5/21/01
Time Collected: 15:15
Date Received: 5/23/01
Time Received: 9:00

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Date	Time	Analyst	Method	Batch
EXTRACTABLE ORGANICS										
Acenaphthene	ND	mg/kg	0.330	0.330	1	5/26/01	3:36	Jeanmarie	8270C	8348
Acenaphthylene	ND	mg/kg	0.330	0.330	1	5/26/01	3:36	Jeanmarie	8270C	8348
Anthracene	ND	mg/kg	0.330	0.330	1	5/26/01	3:36	Jeanmarie	8270C	8348
Benzo(a)anthracene	ND	mg/kg	0.330	0.330	1	5/26/01	3:36	Jeanmarie	8270C	8348
Benzo(a)pyrene	ND	mg/kg	0.330	0.330	1	5/26/01	3:36	Jeanmarie	8270C	8348
Benzo(b)fluoranthene	ND	mg/kg	0.330	0.330	1	5/26/01	3:36	Jeanmarie	8270C	8348
Benzo(g,h,i)perylene	ND	mg/kg	0.330	0.330	1	5/26/01	3:36	Jeanmarie	8270C	8348
Benzo(k)fluoranthene	ND	mg/kg	0.330	0.330	1	5/26/01	3:36	Jeanmarie	8270C	8348
4-Bromophenylphenylether	ND	mg/kg	0.330	0.330	1	5/26/01	3:36	Jeanmarie	8270C	8348
Butylbenzylphthalate	ND	mg/kg	0.330	0.330	1	5/26/01	3:36	Jeanmarie	8270C	8348
Carbazole	ND	mg/kg	0.330	0.330	1	5/26/01	3:36	Jeanmarie	8270C	8348
4-Chloro-3-methylphenol	ND	mg/kg	0.330	0.330	1	5/26/01	3:36	Jeanmarie	8270C	8348
4-Chloroaniline	ND	mg/kg	0.330	0.330	1	5/26/01	3:36	Jeanmarie	8270C	8348
bis(2-Chloroethoxy)methane	ND	mg/kg	0.330	0.330	1	5/26/01	3:36	Jeanmarie	8270C	8348
bis(2-Chloroethyl)ether	ND	mg/kg	0.330	0.330	1	5/26/01	3:36	Jeanmarie	8270C	8348
bis(2-Chloroisopropyl)ether	ND	mg/kg	0.330	0.330	1	5/26/01	3:36	Jeanmarie	8270C	8348
2-Chloronaphthalene	ND	mg/kg	0.330	0.330	1	5/26/01	3:36	Jeanmarie	8270C	8348
2-Chlorophenol	ND	mg/kg	0.330	0.330	1	5/26/01	3:36	Jeanmarie	8270C	8348
4-Chlorophenylphenylether	ND	mg/kg	0.330	0.330	1	5/26/01	3:36	Jeanmarie	8270C	8348
Chrysene	ND	mg/kg	0.330	0.330	1	5/26/01	3:36	Jeanmarie	8270C	8348
Dibenzofuran	ND	mg/kg	0.330	0.330	1	5/26/01	3:36	Jeanmarie	8270C	8348
Dibenz(a,h)anthracene	ND	mg/kg	0.330	0.330	1	5/26/01	3:36	Jeanmarie	8270C	8348
1,2-Dichlorobenzene	ND	mg/kg	0.330	0.330	1	5/26/01	3:36	Jeanmarie	8270C	8348
1,3-Dichlorobenzene	ND	mg/kg	0.330	0.330	1	5/26/01	3:36	Jeanmarie	8270C	8348
1,4-Dichlorobenzene	ND	mg/kg	0.330	0.330	1	5/26/01	3:36	Jeanmarie	8270C	8348

ample report continued . . .

TestAmerica
INCORPORATED

ANALYTICAL REPORT

Laboratory Number: 01-A68600
Sample ID: KB-3 10.5-12
Project: 2961A
Page 2

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Date	Time	Analyst	Method	Batch
3,3'-Dichlorobenzidine	ND	mg/kg	0.330	0.330	1	5/26/01	3:36	Jeanmarie	8270C	8348
2,4-Dichlorophenol	ND	mg/kg	0.330	0.330	1	5/26/01	3:36	Jeanmarie	8270C	8348
Diethylphthalate	ND	mg/kg	0.330	0.330	1	5/26/01	3:36	Jeanmarie	8270C	8348
2,4-Dimethylphenol	ND	mg/kg	0.330	0.330	1	5/26/01	3:36	Jeanmarie	8270C	8348
Dimethylphthalate	ND	mg/kg	0.330	0.330	1	5/26/01	3:36	Jeanmarie	8270C	8348
Di-n-butylphthalate	ND	mg/kg	0.330	0.330	1	5/26/01	3:36	Jeanmarie	8270C	8348
4,6-Dinitro-2-methylphenol	ND	mg/kg	0.330	0.330	1	5/26/01	3:36	Jeanmarie	8270C	8348
2,4-Dinitrophenol	ND	mg/kg	0.330	0.330	1	5/26/01	3:36	Jeanmarie	8270C	8348
2,4-dinitrotoluene	ND	mg/kg	0.330	0.330	1	5/26/01	3:36	Jeanmarie	8270C	8348
2,6-Dinitrotoluene	ND	mg/kg	0.330	0.330	1	5/26/01	3:36	Jeanmarie	8270C	8348
Di-n-octylphthalate	ND	mg/kg	0.330	0.330	1	5/26/01	3:36	Jeanmarie	8270C	8348
Fluoranthene	ND	mg/kg	0.330	0.330	1	5/26/01	3:36	Jeanmarie	8270C	8348
Fluorene	ND	mg/kg	0.330	0.330	1	5/26/01	3:36	Jeanmarie	8270C	8348
Hexachlorobenzene	ND	mg/kg	0.330	0.330	1	5/26/01	3:36	Jeanmarie	8270C	8348
Hexachlorobutadiene	ND	mg/kg	0.330	0.330	1	5/26/01	3:36	Jeanmarie	8270C	8348
Hexachlorocyclopentadiene	ND	mg/kg	0.330	0.330	1	5/26/01	3:36	Jeanmarie	8270C	8348
Hexachloroethane	ND	mg/kg	0.330	0.330	1	5/26/01	3:36	Jeanmarie	8270C	8348
Indeno(1,2,3-cd)pyrene	ND	mg/kg	0.330	0.330	1	5/26/01	3:36	Jeanmarie	8270C	8348
Isophorone	ND	mg/kg	0.330	0.330	1	5/26/01	3:36	Jeanmarie	8270C	8348
2-Methylnaphthalene	ND	mg/kg	0.330	0.330	1	5/26/01	3:36	Jeanmarie	8270C	8348
2-Methylphenol	ND	mg/kg	0.330	0.330	1	5/26/01	3:36	Jeanmarie	8270C	8348
m,p-Methylphenol	ND	mg/kg	0.330	0.330	1	5/26/01	3:36	Jeanmarie	8270C	8348
Naphthalene	ND	mg/kg	0.330	0.330	1	5/26/01	3:36	Jeanmarie	8270C	8348
2-Nitroaniline	ND	mg/kg	0.330	0.330	1	5/26/01	3:36	Jeanmarie	8270C	8348
3-Nitroaniline	ND	mg/kg	0.330	0.330	1	5/26/01	3:36	Jeanmarie	8270C	8348
4-Nitroaniline	ND	mg/kg	0.330	0.330	1	5/26/01	3:36	Jeanmarie	8270C	8348
Nitrobenzene	ND	mg/kg	0.330	0.330	1	5/26/01	3:36	Jeanmarie	8270C	8348
2-Nitrophenol	ND	mg/kg	0.330	0.330	1	5/26/01	3:36	Jeanmarie	8270C	8348
4-Nitrophenol	ND	mg/kg	0.330	0.330	1	5/26/01	3:36	Jeanmarie	8270C	8348
N-nitrosodi-n-propylamine	ND	mg/kg	0.330	0.330	1	5/26/01	3:36	Jeanmarie	8270C	8348
N-nitrosodiphenylamine	ND	mg/kg	0.330	0.330	1	5/26/01	3:36	Jeanmarie	8270C	8348
Pentachlorophenol	ND	mg/kg	0.330	0.330	1	5/26/01	3:36	Jeanmarie	8270C	8348
Phenanthrene	ND	mg/kg	0.330	0.330	1	5/26/01	3:36	Jeanmarie	8270C	8348
Phenol	ND	mg/kg	0.330	0.330	1	5/26/01	3:36	Jeanmarie	8270C	8348

mple report continued . . .

TestAmerica
INCORPORATED

ANALYTICAL REPORT

Laboratory Number: 01-A68600
Sample ID: KB-3 10.5-12
Project: 2961A
Page 3

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Date	Time	Analyst	Method	Batch
Pyrene	ND	mg/kg	0.330	0.330	1	5/26/01	3:36	Jeanmarie	8270C	8348
Bis(2-ethylhexyl)phthalate	ND	mg/kg	0.330	0.330	1	5/26/01	3:36	Jeanmarie	8270C	8348
1,2,4-Trichlorobenzene	ND	mg/kg	0.330	0.330	1	5/26/01	3:36	Jeanmarie	8270C	8348
2,4,5-Trichlorophenol	ND	mg/kg	0.330	0.330	1	5/26/01	3:36	Jeanmarie	8270C	8348
2,4,6-Trichlorophenol	ND	mg/kg	0.330	0.330	1	5/26/01	3:36	Jeanmarie	8270C	8348
VOLATILE ORGANICS										
Acetone	ND	mg/kg	0.0500	0.0500	1	5/30/01	1:28	S. Wani	8260B	7065
Benzene	ND	mg/kg	0.0020	0.0020	1	5/30/01	1:28	S. Wani	8260B	7065
Bromobenzene	ND	mg/kg	0.0020	0.0020	1	5/30/01	1:28	S. Wani	8260B	7065
Bromochloromethane	ND	mg/kg	0.0020	0.0020	1	5/30/01	1:28	S. Wani	8260B	7065
Bromoform	ND	mg/kg	0.0020	0.0020	1	5/30/01	1:28	S. Wani	8260B	7065
Bromomethane	ND	mg/kg	0.0020	0.0020	1	5/30/01	1:28	S. Wani	8260B	7065
2-Butanone	ND	mg/kg	0.0500	0.0500	1	5/30/01	1:28	S. Wani	8260B	7065
n-Butylbenzene	ND	mg/kg	0.0020	0.0020	1	5/30/01	1:28	S. Wani	8260B	7065
sec-Butylbenzene	ND	mg/kg	0.0020	0.0020	1	5/30/01	1:28	S. Wani	8260B	7065
t-Butylbenzene	ND	mg/kg	0.0020	0.0020	1	5/30/01	1:28	S. Wani	8260B	7065
Carbon disulfide	ND	mg/kg	0.0020	0.0020	1	5/30/01	1:28	S. Wani	8260B	7065
Carbon tetrachloride	ND	mg/kg	0.0020	0.0020	1	5/30/01	1:28	S. Wani	8260B	7065
Chlorobenzene	ND	mg/kg	0.0020	0.0020	1	5/30/01	1:28	S. Wani	8260B	7065
Chloroethane	ND	mg/kg	0.0020	0.0020	1	5/30/01	1:28	S. Wani	8260B	7065
Chloroform	ND	mg/kg	0.0020	0.0020	1	5/30/01	1:28	S. Wani	8260B	7065
Chloromethane	ND	mg/kg	0.0020	0.0020	1	5/30/01	1:28	S. Wani	8260B	7065
2-Chlorotoluene	ND	mg/kg	0.0020	0.0020	1	5/30/01	1:28	S. Wani	8260B	7065
4-Chlorotoluene	ND	mg/kg	0.0020	0.0020	1	5/30/01	1:28	S. Wani	8260B	7065
1,2-Dibromo-3-chloropropane	ND	mg/kg	0.0100	0.0100	1	5/30/01	1:28	S. Wani	8260B	7065
Dibromochloromethane	ND	mg/kg	0.0020	0.0020	1	5/30/01	1:28	S. Wani	8260B	7065
1,2-Dibromoethane	ND	mg/kg	0.0020	0.0020	1	5/30/01	1:28	S. Wani	8260B	7065
Dibromomethane	ND	mg/kg	0.0020	0.0020	1	5/30/01	1:28	S. Wani	8260B	7065
1,2-Dichlorobenzene	ND	mg/kg	0.0020	0.0020	1	5/30/01	1:28	S. Wani	8260B	7065
1,3-Dichlorobenzene	ND	mg/kg	0.0020	0.0020	1	5/30/01	1:28	S. Wani	8260B	7065
1,4-Dichlorobenzene	ND	mg/kg	0.0020	0.0020	1	5/30/01	1:28	S. Wani	8260B	7065
Dichlorodifluoromethane	ND	mg/kg	0.0020	0.0020	1	5/30/01	1:28	S. Wani	8260B	7065
1,1-Dichloroethane	ND	mg/kg	0.0020	0.0020	1	5/30/01	1:28	S. Wani	8260B	7065

mple report continued . . .

TestAmerica
INCORPORATED

ANALYTICAL REPORT

Laboratory Number: 01-A68600
Sample ID: KB-3 10.5-12
Project: 2961A

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Date	Time	Analyst	Method	Batch
1,2-Dichloroethane	ND	mg/kg	0.0020	0.0020	1	5/30/01	1:28	S. Wani	8260B	7065
1,1-Dichloroethene	ND	mg/kg	0.0020	0.0020	1	5/30/01	1:28	S. Wani	8260B	7065
cis-1,2-Dichloroethene	ND	mg/kg	0.0020	0.0020	1	5/30/01	1:28	S. Wani	8260B	7065
trans-1,2-Dichloroethene	ND	mg/kg	0.0020	0.0020	1	5/30/01	1:28	S. Wani	8260B	7065
1,2-Dichloropropane	ND	mg/kg	0.0020	0.0020	1	5/30/01	1:28	S. Wani	8260B	7065
1,3-Dichloropropane	ND	mg/kg	0.0020	0.0020	1	5/30/01	1:28	S. Wani	8260B	7065
2,2-Dichloropropane	ND	mg/kg	0.0020	0.0020	1	5/30/01	1:28	S. Wani	8260B	7065
1,1-Dichloropropene	ND	mg/kg	0.0020	0.0020	1	5/30/01	1:28	S. Wani	8260B	7065
cis-1,3-Dichloropropene	ND	mg/kg	0.0020	0.0020	1	5/30/01	1:28	S. Wani	8260B	7065
trans-1,3-Dichloropropene	ND	mg/kg	0.0020	0.0020	1	5/30/01	1:28	S. Wani	8260B	7065
Ethylbenzene	ND	mg/kg	0.0020	0.0020	1	5/30/01	1:28	S. Wani	8260B	7065
Hexachlorobutadiene	ND	mg/kg	0.0020	0.0020	1	5/30/01	1:28	S. Wani	8260B	7065
2-Hexanone	ND	mg/kg	0.0100	0.0100	1	5/30/01	1:28	S. Wani	8260B	7065
Isopropylbenzene	ND	mg/kg	0.0020	0.0020	1	5/30/01	1:28	S. Wani	8260B	7065
4-Isopropyltoluene	ND	mg/kg	0.0020	0.0020	1	5/30/01	1:28	S. Wani	8260B	7065
4-Methyl-2-pentanone	ND	mg/kg	0.0100	0.0100	1	5/30/01	1:28	S. Wani	8260B	7065
Methylene chloride	ND	mg/kg	0.0050	0.0050	1	5/30/01	1:28	S. Wani	8260B	7065
Naphthalene	ND	mg/kg	0.0050	0.0050	1	5/30/01	1:28	S. Wani	8260B	7065
n-Propylbenzene	ND	mg/kg	0.0020	0.0020	1	5/30/01	1:28	S. Wani	8260B	7065
Styrene	ND	mg/kg	0.0020	0.0020	1	5/30/01	1:28	S. Wani	8260B	7065
1,1,1,2-Tetrachloroethane	ND	mg/kg	0.0020	0.0020	1	5/30/01	1:28	S. Wani	8260B	7065
1,1,2,2-Tetrachloroethane	ND	mg/kg	0.0020	0.0020	1	5/30/01	1:28	S. Wani	8260B	7065
Tetrachloroethene	ND	mg/kg	0.0020	0.0020	1	5/30/01	1:28	S. Wani	8260B	7065
Toluene	ND	mg/kg	0.0020	0.0020	1	5/30/01	1:28	S. Wani	8260B	7065
1,2,3-Trichlorobenzene	ND	mg/kg	0.0020	0.0020	1	5/30/01	1:28	S. Wani	8260B	7065
1,2,4-Trichlorobenzene	ND	mg/kg	0.0020	0.0020	1	5/30/01	1:28	S. Wani	8260B	7065
1,1,1-Trichloroethane	ND	mg/kg	0.0020	0.0020	1	5/30/01	1:28	S. Wani	8260B	7065
1,1,2-Trichloroethane	ND	mg/kg	0.0020	0.0020	1	5/30/01	1:28	S. Wani	8260B	7065
Trichloroethene	ND	mg/kg	0.0020	0.0020	1	5/30/01	1:28	S. Wani	8260B	7065
1,2,3-Trichloropropane	ND	mg/kg	0.0020	0.0020	1	5/30/01	1:28	S. Wani	8260B	7065
1,2,4-Trimethylbenzene	ND	mg/kg	0.0020	0.0020	1	5/30/01	1:28	S. Wani	8260B	7065
1,3,5-Trimethylbenzene	ND	mg/kg	0.0020	0.0020	1	5/30/01	1:28	S. Wani	8260B	7065
Vinyl chloride	ND	mg/kg	0.0020	0.0020	1	5/30/01	1:28	S. Wani	8260B	7065
Xylenes, Total	ND	mg/kg	0.0020	0.0020	1	5/30/01	1:28	S. Wani	8260B	7065

mple report continued . . .

TestAmerica
INCORPORATED

ANALYTICAL REPORT

Laboratory Number: 01-A68600
Sample ID: KB-3 10.5-12
Project: 2961A

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Date	Time	Analyst	Method	Batch
Bromodichloromethane	ND	mg/kg	0.0020	0.0020	1	5/30/01	1:28	S. Wani	8260B	7065
Trichlorofluoromethane	ND	mg/kg	0.0020	0.0020	1	5/30/01	1:28	S. Wani	8260B	7065
PESTICIDE/PCB's/HERBICIDES										
Aroclor 1016	ND	mg/kg	0.0200	0.0200	1	5/25/01	17:54	M. Cauthen	8082	8363
Aroclor 1221	ND	mg/kg	0.0200	0.0200	1	5/25/01	17:54	M. Cauthen	8082	8363
Aroclor 1232	ND	mg/kg	0.0200	0.0200	1	5/25/01	17:54	M. Cauthen	8082	8363
Aroclor 1242	ND	mg/kg	0.0200	0.0200	1	5/25/01	17:54	M. Cauthen	8082	8363
Aroclor 1248	ND	mg/kg	0.0200	0.0200	1	5/25/01	17:54	M. Cauthen	8082	8363
Aroclor 1254	ND	mg/kg	0.0200	0.0200	1	5/25/01	17:54	M. Cauthen	8082	8363
Aroclor 1260	ND	mg/kg	0.0200	0.0200	1	5/25/01	17:54	M. Cauthen	8082	8363
METALS										
Arsenic	8.95	mg/kg	0.973	0.973	1	5/24/01	16:34	G.McCord	6010B	7298
Barium	68.1	mg/kg	0.973	0.973	1	5/24/01	16:34	G.McCord	6010B	7298
Cadmium	ND	mg/kg	0.973	0.973	1	5/24/01	16:34	G.McCord	6010B	7298
Chromium	16.9	mg/kg	0.973	0.973	1	5/24/01	16:34	G.McCord	6010B	7298
Copper	7.98	mg/kg	0.973	0.973	1	5/24/01	16:34	G.McCord	6010B	7298
Lead	4.09	mg/kg	0.973	0.973	1	5/24/01	16:34	G.McCord	6010B	7298
Mercury	ND	mg/kg	0.099	0.099	1	5/24/01	12:44	C. Terry	7471	7307
Selenium	2.72	mg/kg	0.973	0.973	1	5/24/01	16:34	G.McCord	6010B	7298
Silver	ND	mg/kg	0.973	0.973	1	5/24/01	16:34	G.McCord	6010B	7298
pH	8.00	pH units			1	5/25/01	11:29	K.Bundy	9045	7168

ND - Not detected at the report limit.

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Time	Analyst	Method
BNA's	30.4 gm	1.0 ml	5/23/01		J. Rudden	3550

nple report continued . . .

TestAmerica
INCORPORATED

ANALYTICAL REPORT

Laboratory Number: 01-A68600
Sample ID: KB-3 10.5-12
Project: 2961A

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Time	Analyst	Method
PCB's	30.2 gm	10.0 ml	5/23/01		J. Rudden	3550

Surrogate	% Recovery	Target Range
surr-1,2-Dichloroethane, d4	97.	50. - 140.
surr-Toluene d8	99.	75. - 141.
surr-4-Bromofluorobenzene	99.	69. - 131.
surr-Dibromofluoromethane	98.	76. - 136.
BNA Surr-Nitrobenzene-d5	64.	26. - 110.
BNA Surr-2-Fluorobiphenyl	71.	28. - 112.
BNA Surr-Terphenyl d14	82.	40. - 124.
BNA Surr-Phenol d5	73.	29. - 121.
BNA Surr-2-Fluorophenol	65.	20. - 113.
BNA Surr-2,4,6-Tribromophenol	97.	29. - 144.
pcb surr-TCMX	118.	23. - 156.
pcb surr-DCB	94.	15. - 130.

- Recovery outside Laboratory historical limits.

All results reported on a wet weight basis.

Sample for pH analysis received outside method prescribed holding time.

ple report continued . . .

TestAmerica
INCORPORATED

ANALYTICAL REPORT

Laboratory Number: 01-A68600
Sample ID: KB-3 10.5-12
Project: 2961A
Page 7

These results relate only to the items tested.
This report shall not be reproduced except in full and with permission of the laboratory.

Report Approved By: _____ Report Date: 6/ 1/01

Paul E. Lane, Jr., Lab Director
Michael H. Dunn, M.S., Technical Director
Johnny A. Mitchell, Dir. Technical Serv.
Eric S. Smith, Assistant Technical Director
Gail A. Lage, Technical Serv.
Glenn L. Norton, Technical Serv.
Kelly S. Comstock, Technical Serv.
Pamela A. Langford, Technical Serv.

Laboratory Certification Number: AZ0473

End of Sample Report.

TestAmerica
INCORPORATED

ANALYTICAL REPORT

KERAMIDA ENVIRONMENTAL 6028
KRISTEN BELLCREDI
330 N. COLLEGE AVENUE
INDIANAPOLIS, IN 46202

Lab Number: 01-A68601
Sample ID: KB-4 0-1.5
Sample Type: Soil
Site ID:

Project: 2961A
Project Name: FRUEHAUF-PHOENIX
Sampler: B.H.

Date Collected: 5/22/01
Time Collected: 7:40
Date Received: 5/23/01
Time Received: 9:00

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Date	Time	Analyst	Method	Batch
EXTRACTABLE ORGANICS										
Acenaphthene	ND	mg/kg	3.32	0.330	5	5/26/01	4:14	Jeanmarie	8270C	8348
Acenaphthylene	ND	mg/kg	3.32	0.330	5	5/26/01	4:14	Jeanmarie	8270C	8348
Anthracene	ND	mg/kg	3.32	0.330	5	5/26/01	4:14	Jeanmarie	8270C	8348
Benzo(a)anthracene	ND	mg/kg	3.32	0.330	5	5/26/01	4:14	Jeanmarie	8270C	8348
Benzo(a)pyrene	ND	mg/kg	3.32	0.330	5	5/26/01	4:14	Jeanmarie	8270C	8348
Benzo(b)fluoranthene	ND	mg/kg	3.32	0.330	5	5/26/01	4:14	Jeanmarie	8270C	8348
Benzo(g,h,i)perylene	ND	mg/kg	3.32	0.330	5	5/26/01	4:14	Jeanmarie	8270C	8348
Benzo(k)fluoranthene	ND	mg/kg	3.32	0.330	5	5/26/01	4:14	Jeanmarie	8270C	8348
4-Bromophenylphenylether	ND	mg/kg	3.32	0.330	5	5/26/01	4:14	Jeanmarie	8270C	8348
Butylbenzylphthalate	ND	mg/kg	3.32	0.330	5	5/26/01	4:14	Jeanmarie	8270C	8348
Carbazole	ND	mg/kg	3.32	0.330	5	5/26/01	4:14	Jeanmarie	8270C	8348
4-Chloro-3-methylphenol	ND	mg/kg	3.32	0.330	5	5/26/01	4:14	Jeanmarie	8270C	8348
4-Chloroaniline	ND	mg/kg	3.32	0.330	5	5/26/01	4:14	Jeanmarie	8270C	8348
bis(2-Chloroethoxy)methane	ND	mg/kg	3.32	0.333	5	5/26/01	4:14	Jeanmarie	8270C	8348
bis(2-Chloroethyl)ether	ND	mg/kg	3.32	0.333	5	5/26/01	4:14	Jeanmarie	8270C	8348
bis(2-Chloroisopropyl)ether	ND	mg/kg	3.32	0.333	5	5/26/01	4:14	Jeanmarie	8270C	8348
2-Chloronaphthalene	ND	mg/kg	3.32	0.333	5	5/26/01	4:14	Jeanmarie	8270C	8348
2-Chlorophenol	ND	mg/kg	3.32	0.333	5	5/26/01	4:14	Jeanmarie	8270C	8348
4-Chlorophenylphenylether	ND	mg/kg	3.32	0.333	5	5/26/01	4:14	Jeanmarie	8270C	8348
Chrysene	ND	mg/kg	3.32	0.333	5	5/26/01	4:14	Jeanmarie	8270C	8348
Dibenzofuran	ND	mg/kg	3.32	0.333	5	5/26/01	4:14	Jeanmarie	8270C	8348
Dibenz(a,h)anthracene	ND	mg/kg	3.32	0.333	5	5/26/01	4:14	Jeanmarie	8270C	8348
1,2-Dichlorobenzene	ND	mg/kg	3.32	0.333	5	5/26/01	4:14	Jeanmarie	8270C	8348
1,3-Dichlorobenzene	ND	mg/kg	3.32	0.333	5	5/26/01	4:14	Jeanmarie	8270C	8348
1,4-Dichlorobenzene	ND	mg/kg	3.32	0.333	5	5/26/01	4:14	Jeanmarie	8270C	8348

ıple report continued . . .

TestAmerica
INCORPORATED

ANALYTICAL REPORT

Laboratory Number: 01-A68601
Sample ID: KB-4 0-1.5
Project: 2961A

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Date	Time	Analyst	Method	Batch
3,3'-Dichlorobenzidine	ND	mg/kg	3.32	0.330	5	5/26/01	4:14	Jeanmarie	8270C	8348
2,4-Dichlorophenol	ND	mg/kg	3.32	0.333	5	5/26/01	4:14	Jeanmarie	8270C	8348
Diethylphthalate	ND	mg/kg	3.32	0.333	5	5/26/01	4:14	Jeanmarie	8270C	8348
2,4-Dimethylphenol	ND	mg/kg	3.32	0.333	5	5/26/01	4:14	Jeanmarie	8270C	8348
Dimethylphthalate	ND	mg/kg	3.32	0.333	5	5/26/01	4:14	Jeanmarie	8270C	8348
Di-n-butylphthalate	ND	mg/kg	3.32	0.333	5	5/26/01	4:14	Jeanmarie	8270C	8348
4,6-Dinitro-2-methylphenol	ND	mg/kg	3.32	0.330	5	5/26/01	4:14	Jeanmarie	8270C	8348
2,4-Dinitrophenol	ND	mg/kg	3.32	0.330	5	5/26/01	4:14	Jeanmarie	8270C	8348
2,4-dinitrotoluene	ND	mg/kg	3.32	0.333	5	5/26/01	4:14	Jeanmarie	8270C	8348
2,6-Dinitrotoluene	ND	mg/kg	3.32	0.333	5	5/26/01	4:14	Jeanmarie	8270C	8348
Di-n-octylphthalate	ND	mg/kg	3.32	0.333	5	5/26/01	4:14	Jeanmarie	8270C	8348
Fluoranthene	ND	mg/kg	3.32	0.333	5	5/26/01	4:14	Jeanmarie	8270C	8348
Fluorene	ND	mg/kg	3.32	0.333	5	5/26/01	4:14	Jeanmarie	8270C	8348
Hexachlorobenzene	ND	mg/kg	3.32	0.333	5	5/26/01	4:14	Jeanmarie	8270C	8348
Hexachlorobutadiene	ND	mg/kg	3.32	0.333	5	5/26/01	4:14	Jeanmarie	8270C	8348
Hexachlorocyclopentadiene	ND	mg/kg	3.32	0.333	5	5/26/01	4:14	Jeanmarie	8270C	8348
Hexachloroethane	ND	mg/kg	3.32	0.333	5	5/26/01	4:14	Jeanmarie	8270C	8348
Indeno(1,2,3-cd)pyrene	ND	mg/kg	3.32	0.333	5	5/26/01	4:14	Jeanmarie	8270C	8348
Isophorone	ND	mg/kg	3.32	0.333	5	5/26/01	4:14	Jeanmarie	8270C	8348
2-Methylnaphthalene	ND	mg/kg	3.32	0.333	5	5/26/01	4:14	Jeanmarie	8270C	8348
2-Methylphenol	ND	mg/kg	3.32	0.333	5	5/26/01	4:14	Jeanmarie	8270C	8348
m,p-Methylphenol	ND	mg/kg	3.32	0.333	5	5/26/01	4:14	Jeanmarie	8270C	8348
Naphthalene	ND	mg/kg	3.32	0.333	5	5/26/01	4:14	Jeanmarie	8270C	8348
2-Nitroaniline	ND	mg/kg	3.32	0.330	5	5/26/01	4:14	Jeanmarie	8270C	8348
3-Nitroaniline	ND	mg/kg	3.32	0.330	5	5/26/01	4:14	Jeanmarie	8270C	8348
4-Nitroaniline	ND	mg/kg	3.32	0.330	5	5/26/01	4:14	Jeanmarie	8270C	8348
Nitrobenzene	ND	mg/kg	3.32	0.333	5	5/26/01	4:14	Jeanmarie	8270C	8348
2-Nitrophenol	ND	mg/kg	3.32	0.333	5	5/26/01	4:14	Jeanmarie	8270C	8348
4-Nitrophenol	ND	mg/kg	3.32	0.330	5	5/26/01	4:14	Jeanmarie	8270C	8348
N-nitrosodi-n-propylamine	ND	mg/kg	3.32	0.333	5	5/26/01	4:14	Jeanmarie	8270C	8348
N-nitrosodiphenylamine	ND	mg/kg	3.32	0.333	5	5/26/01	4:14	Jeanmarie	8270C	8348
Pentachlorophenol	ND	mg/kg	3.32	0.330	5	5/26/01	4:14	Jeanmarie	8270C	8348
Phenanthrene	ND	mg/kg	3.32	0.333	5	5/26/01	4:14	Jeanmarie	8270C	8348
Phenol	ND	mg/kg	3.32	0.333	5	5/26/01	4:14	Jeanmarie	8270C	8348

ımple report continued . . .

TestAmerica
INCORPORATED

ANALYTICAL REPORT

Laboratory Number: 01-A68601
Sample ID: KB-4 0-1.5
Project: 2961A

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Date	Time	Analyst	Method	Batch
Pyrene	ND	mg/kg	3.32	0.333	5	5/26/01	4:14	Jeanmarie	8270C	8348
Bis(2-ethylhexyl)phthalate	ND	mg/kg	3.32	0.333	5	5/26/01	4:14	Jeanmarie	8270C	8348
1,2,4-Trichlorobenzene	ND	mg/kg	3.32	0.333	5	5/26/01	4:14	Jeanmarie	8270C	8348
2,4,5-Trichlorophenol	ND	mg/kg	3.32	0.330	5	5/26/01	4:14	Jeanmarie	8270C	8348
2,4,6-Trichlorophenol	ND	mg/kg	3.32	0.333	5	5/26/01	4:14	Jeanmarie	8270C	8348
VOLATILE ORGANICS										
Acetone	0.0846	mg/kg	0.0500	0.0500	1	5/30/01	2:06	S. Wani	8260B	7065
Benzene	ND	mg/kg	0.0020	0.0020	1	5/30/01	2:06	S. Wani	8260B	7065
Bromobenzene	ND	mg/kg	0.0020	0.0020	1	5/30/01	2:06	S. Wani	8260B	7065
Bromochloromethane	ND	mg/kg	0.0020	0.0020	1	5/30/01	2:06	S. Wani	8260B	7065
Bromoform	ND	mg/kg	0.0020	0.0020	1	5/30/01	2:06	S. Wani	8260B	7065
Bromomethane	ND	mg/kg	0.0020	0.0020	1	5/30/01	2:06	S. Wani	8260B	7065
2-Butanone	ND	mg/kg	0.0500	0.0500	1	5/30/01	2:06	S. Wani	8260B	7065
n-Butylbenzene	ND	mg/kg	0.0020	0.0020	1	5/30/01	2:06	S. Wani	8260B	7065
sec-Butylbenzene	ND	mg/kg	0.0020	0.0020	1	5/30/01	2:06	S. Wani	8260B	7065
t-Butylbenzene	ND	mg/kg	0.0020	0.0020	1	5/30/01	2:06	S. Wani	8260B	7065
Carbon disulfide	ND	mg/kg	0.0020	0.0020	1	5/30/01	2:06	S. Wani	8260B	7065
Carbon tetrachloride	ND	mg/kg	0.0020	0.0020	1	5/30/01	2:06	S. Wani	8260B	7065
Chlorobenzene	ND	mg/kg	0.0020	0.0020	1	5/30/01	2:06	S. Wani	8260B	7065
Chloroethane	ND	mg/kg	0.0020	0.0020	1	5/30/01	2:06	S. Wani	8260B	7065
Chloroform	ND	mg/kg	0.0020	0.0020	1	5/30/01	2:06	S. Wani	8260B	7065
Chloromethane	ND	mg/kg	0.0020	0.0020	1	5/30/01	2:06	S. Wani	8260B	7065
2-Chlorotoluene	ND	mg/kg	0.0020	0.0020	1	5/30/01	2:06	S. Wani	8260B	7065
4-Chlorotoluene	ND	mg/kg	0.0020	0.0020	1	5/30/01	2:06	S. Wani	8260B	7065
1,2-Dibromo-3-chloropropane	ND	mg/kg	0.0100	0.0100	1	5/30/01	2:06	S. Wani	8260B	7065
Dibromochloromethane	ND	mg/kg	0.0020	0.0020	1	5/30/01	2:06	S. Wani	8260B	7065
1,2-Dibromoethane	ND	mg/kg	0.0020	0.0020	1	5/30/01	2:06	S. Wani	8260B	7065
Dibromomethane	ND	mg/kg	0.0020	0.0020	1	5/30/01	2:06	S. Wani	8260B	7065
1,2-Dichlorobenzene	ND	mg/kg	0.0020	0.0020	1	5/30/01	2:06	S. Wani	8260B	7065
1,3-Dichlorobenzene	ND	mg/kg	0.0020	0.0020	1	5/30/01	2:06	S. Wani	8260B	7065
1,4-Dichlorobenzene	ND	mg/kg	0.0020	0.0020	1	5/30/01	2:06	S. Wani	8260B	7065
Dichlorodifluoromethane	ND	mg/kg	0.0020	0.0020	1	5/30/01	2:06	S. Wani	8260B	7065
1,1-Dichloroethane	ND	mg/kg	0.0020	0.0020	1	5/30/01	2:06	S. Wani	8260B	7065

mple report continued . . .

TestAmerica
INCORPORATED

ANALYTICAL REPORT

Laboratory Number: 01-A68601
Sample ID: KB-4 0-1.5
Project: 2961A
Page 4

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Date	Time	Analyst	Method	Batch
1,2-Dichloroethane	ND	mg/kg	0.0020	0.0020	1	5/30/01	2:06	S. Wani	8260B	7065
1,1-Dichloroethene	ND	mg/kg	0.0020	0.0020	1	5/30/01	2:06	S. Wani	8260B	7065
cis-1,2-Dichloroethene	ND	mg/kg	0.0020	0.0020	1	5/30/01	2:06	S. Wani	8260B	7065
trans-1,2-Dichloroethene	ND	mg/kg	0.0020	0.0020	1	5/30/01	2:06	S. Wani	8260B	7065
1,2-Dichloropropane	ND	mg/kg	0.0020	0.0020	1	5/30/01	2:06	S. Wani	8260B	7065
1,3-Dichloropropane	ND	mg/kg	0.0020	0.0020	1	5/30/01	2:06	S. Wani	8260B	7065
2,2-Dichloropropane	ND	mg/kg	0.0020	0.0020	1	5/30/01	2:06	S. Wani	8260B	7065
1,1-Dichloropropene	ND	mg/kg	0.0020	0.0020	1	5/30/01	2:06	S. Wani	8260B	7065
cis-1,3-Dichloropropene	ND	mg/kg	0.0020	0.0020	1	5/30/01	2:06	S. Wani	8260B	7065
trans-1,3-Dichloropropene	ND	mg/kg	0.0020	0.0020	1	5/30/01	2:06	S. Wani	8260B	7065
Ethylbenzene	ND	mg/kg	0.0020	0.0020	1	5/30/01	2:06	S. Wani	8260B	7065
Hexachlorobutadiene	ND	mg/kg	0.0020	0.0020	1	5/30/01	2:06	S. Wani	8260B	7065
2-Hexanone	ND	mg/kg	0.0100	0.0100	1	5/30/01	2:06	S. Wani	8260B	7065
Isopropylbenzene	ND	mg/kg	0.0020	0.0020	1	5/30/01	2:06	S. Wani	8260B	7065
4-Isopropyltoluene	ND	mg/kg	0.0020	0.0020	1	5/30/01	2:06	S. Wani	8260B	7065
4-Methyl-2-pentanone	ND	mg/kg	0.0100	0.0100	1	5/30/01	2:06	S. Wani	8260B	7065
Methylene chloride	ND	mg/kg	0.0050	0.0050	1	5/30/01	2:06	S. Wani	8260B	7065
Naphthalene	ND	mg/kg	0.0050	0.0050	1	5/30/01	2:06	S. Wani	8260B	7065
n-Propylbenzene	ND	mg/kg	0.0020	0.0020	1	5/30/01	2:06	S. Wani	8260B	7065
Styrene	ND	mg/kg	0.0020	0.0020	1	5/30/01	2:06	S. Wani	8260B	7065
1,1,1,2-Tetrachloroethane	ND	mg/kg	0.0020	0.0020	1	5/30/01	2:06	S. Wani	8260B	7065
1,1,2,2-Tetrachloroethane	ND	mg/kg	0.0020	0.0020	1	5/30/01	2:06	S. Wani	8260B	7065
Tetrachloroethene	ND	mg/kg	0.0020	0.0020	1	5/30/01	2:06	S. Wani	8260B	7065
Toluene	ND	mg/kg	0.0020	0.0020	1	5/30/01	2:06	S. Wani	8260B	7065
1,2,3-Trichlorobenzene	ND	mg/kg	0.0020	0.0020	1	5/30/01	2:06	S. Wani	8260B	7065
1,2,4-Trichlorobenzene	ND	mg/kg	0.0020	0.0020	1	5/30/01	2:06	S. Wani	8260B	7065
1,1,1-Trichloroethane	ND	mg/kg	0.0020	0.0020	1	5/30/01	2:06	S. Wani	8260B	7065
1,1,2-Trichloroethane	ND	mg/kg	0.0020	0.0020	1	5/30/01	2:06	S. Wani	8260B	7065
Trichloroethene	ND	mg/kg	0.0020	0.0020	1	5/30/01	2:06	S. Wani	8260B	7065
1,2,3-Trichloropropane	ND	mg/kg	0.0020	0.0020	1	5/30/01	2:06	S. Wani	8260B	7065
1,2,4-Trimethylbenzene	ND	mg/kg	0.0020	0.0020	1	5/30/01	2:06	S. Wani	8260B	7065
1,3,5-Trimethylbenzene	ND	mg/kg	0.0020	0.0020	1	5/30/01	2:06	S. Wani	8260B	7065
Vinyl chloride	ND	mg/kg	0.0020	0.0020	1	5/30/01	2:06	S. Wani	8260B	7065
Xylenes, Total	ND	mg/kg	0.0020	0.0020	1	5/30/01	2:06	S. Wani	8260B	7065

mple report continued . . .

TestAmerica
INCORPORATED

ANALYTICAL REPORT

Laboratory Number: 01-A68601
Sample ID: KB-4 0-1.5
Project: 2961A

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Date	Time	Analyst	Method	Batch
Bromodichloromethane	ND	mg/kg	0.0020	0.0020	1	5/30/01	2:06	S. Wani	8260B	7065
Trichlorofluoromethane	ND	mg/kg	0.0020	0.0020	1	5/30/01	2:06	S. Wani	8260B	7065
PESTICIDE/PCB's/HERBICIDES										
Aroclor 1016	ND	mg/kg	0.0200	0.0200	1	5/25/01	19:27	M. Cauthen	8082	8363
Aroclor 1221	ND	mg/kg	0.0200	0.0200	1	5/25/01	19:27	M. Cauthen	8082	8363
Aroclor 1232	ND	mg/kg	0.0200	0.0200	1	5/25/01	19:27	M. Cauthen	8082	8363
Aroclor 1242	ND	mg/kg	0.0200	0.0200	1	5/25/01	19:27	M. Cauthen	8082	8363
Aroclor 1248	ND	mg/kg	0.0200	0.0200	1	5/25/01	19:27	M. Cauthen	8082	8363
Aroclor 1254	ND	mg/kg	0.0200	0.0200	1	5/25/01	19:27	M. Cauthen	8082	8363
Aroclor 1260	ND	mg/kg	0.0200	0.0200	1	5/25/01	19:27	M. Cauthen	8082	8363
METALS										
Arsenic	13.7	mg/kg	0.963	0.963	1	5/24/01	16:34	G.McCord	6010B	7298
Barium	167.	mg/kg	0.963	0.963	1	5/24/01	16:34	G.McCord	6010B	7298
Cadmium	ND	mg/kg	0.963	0.963	1	5/24/01	16:34	G.McCord	6010B	7298
Chromium	30.1	mg/kg	0.963	0.963	1	5/24/01	16:34	G.McCord	6010B	7298
Copper	31.6	mg/kg	0.963	0.963	1	5/24/01	16:34	G.McCord	6010B	7298
Lead	18.5	mg/kg	0.963	0.963	1	5/24/01	16:34	G.McCord	6010B	7298
Mercury	ND	mg/kg	0.099	0.099	1	5/24/01	12:44	C. Terry	7471	7307
Selenium	3.28	mg/kg	0.963	0.963	1	5/24/01	16:34	G.McCord	6010B	7298
Silver	ND	mg/kg	0.963	0.963	1	5/24/01	16:34	G.McCord	6010B	7298
pH	8.20	pH units			1	5/25/01	11:35	K.Bundy	9045	7168

ND - Not detected at the report limit.

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Time	Analyst	Method
BNA's	30.1 gm	2.0 ml	5/23/01		J. Rudden	3550

nple report continued . . .

TestAmerica
INCORPORATED

ANALYTICAL REPORT

Laboratory Number: 01-A68601
Sample ID: KB-4 0-1.5
Project: 2961A

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Time	Analyst	Method
PCB's	30.1 gm	10.0 ml	5/23/01		J. Rudden	3550

Surrogate	% Recovery	Target Range
surr-1,2-Dichloroethane, d4	98.	50. - 140.
surr-Toluene d8	99.	75. - 141.
surr-4-Bromofluorobenzene	99.	69. - 131.
surr-Dibromofluoromethane	99.	76. - 136.
pcb surr-TCMX	116.	23. - 156.
pcb surr-DCB	104.	15. - 130.

- Recovery outside Laboratory historical limits.

All results reported on a wet weight basis.

Sample for pH analysis received outside method prescribed holding time.

mple report continued . . .

TestAmerica
INCORPORATED

ANALYTICAL REPORT

Laboratory Number: 01-A68601
Sample ID: KB-4 0-1.5
Project: 2961A
Page 7

These results relate only to the items tested.
This report shall not be reproduced except in full and with permission of the laboratory.

Report Approved By: _____ Report Date: 6/ 1/01

Paul E. Lane, Jr., Lab Director
Michael H. Dunn, M.S., Technical Director
Johnny A. Mitchell, Dir. Technical Serv.
Eric S. Smith, Assistant Technical Director
Gail A. Lage, Technical Serv.
Glenn L. Norton, Technical Serv.
Kelly S. Comstock, Technical Serv.
Pamela A. Langford, Technical Serv.

Laboratory Certification Number: AZ0473

ıd of Sample Report.

TestAmerica
INCORPORATED

ANALYTICAL REPORT

KERAMIDA ENVIRONMENTAL 6028
KRISTEN BELLCREDI
330 N. COLLEGE AVENUE
INDIANAPOLIS, IN 46202

Lab Number: 01-A68602
Sample ID: KB-4 10.5-11.5
Sample Type: Soil
Site ID:

Project: 2961A
Project Name: FRUEHAUF-PHOENIX
Sampler: B.H.

Date Collected: 5/22/01
Time Collected: 8:45
Date Received: 5/23/01
Time Received: 9:00

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Date	Time	Analyst	Method	Batch
EXTRACTABLE ORGANICS										
Acenaphthene	ND	mg/kg	0.330	0.330	1	5/26/01	4:51	Jeanmarie	8270C	8348
Acenaphthylene	ND	mg/kg	0.330	0.330	1	5/26/01	4:51	Jeanmarie	8270C	8348
Anthracene	ND	mg/kg	0.330	0.330	1	5/26/01	4:51	Jeanmarie	8270C	8348
Benzo(a)anthracene	ND	mg/kg	0.330	0.330	1	5/26/01	4:51	Jeanmarie	8270C	8348
Benzo(a)pyrene	ND	mg/kg	0.330	0.330	1	5/26/01	4:51	Jeanmarie	8270C	8348
Benzo(b)fluoranthene	ND	mg/kg	0.330	0.330	1	5/26/01	4:51	Jeanmarie	8270C	8348
Benzo(g,h,i)perylene	ND	mg/kg	0.330	0.330	1	5/26/01	4:51	Jeanmarie	8270C	8348
Benzo(k)fluoranthene	ND	mg/kg	0.330	0.330	1	5/26/01	4:51	Jeanmarie	8270C	8348
4-Bromophenylphenylether	ND	mg/kg	0.330	0.330	1	5/26/01	4:51	Jeanmarie	8270C	8348
Butylbenzylphthalate	ND	mg/kg	0.330	0.330	1	5/26/01	4:51	Jeanmarie	8270C	8348
Carbazole	ND	mg/kg	0.330	0.330	1	5/26/01	4:51	Jeanmarie	8270C	8348
4-Chloro-3-methylphenol	ND	mg/kg	0.330	0.330	1	5/26/01	4:51	Jeanmarie	8270C	8348
4-Chloroaniline	ND	mg/kg	0.330	0.330	1	5/26/01	4:51	Jeanmarie	8270C	8348
bis(2-Chloroethoxy)methane	ND	mg/kg	0.330	0.330	1	5/26/01	4:51	Jeanmarie	8270C	8348
bis(2-Chloroethyl)ether	ND	mg/kg	0.330	0.330	1	5/26/01	4:51	Jeanmarie	8270C	8348
bis(2-Chloroisopropyl)ether	ND	mg/kg	0.330	0.330	1	5/26/01	4:51	Jeanmarie	8270C	8348
2-Chloronaphthalene	ND	mg/kg	0.330	0.330	1	5/26/01	4:51	Jeanmarie	8270C	8348
2-Chlorophenol	ND	mg/kg	0.330	0.330	1	5/26/01	4:51	Jeanmarie	8270C	8348
4-Chlorophenylphenylether	ND	mg/kg	0.330	0.330	1	5/26/01	4:51	Jeanmarie	8270C	8348
Chrysene	ND	mg/kg	0.330	0.330	1	5/26/01	4:51	Jeanmarie	8270C	8348
Dibenzofuran	ND	mg/kg	0.330	0.330	1	5/26/01	4:51	Jeanmarie	8270C	8348
Dibenz(a,h)anthracene	ND	mg/kg	0.330	0.330	1	5/26/01	4:51	Jeanmarie	8270C	8348
1,2-Dichlorobenzene	ND	mg/kg	0.330	0.330	1	5/26/01	4:51	Jeanmarie	8270C	8348
1,3-Dichlorobenzene	ND	mg/kg	0.330	0.330	1	5/26/01	4:51	Jeanmarie	8270C	8348
1,4-Dichlorobenzene	ND	mg/kg	0.330	0.330	1	5/26/01	4:51	Jeanmarie	8270C	8348

mple report continued . . .

TestAmerica
INCORPORATED

ANALYTICAL REPORT

Laboratory Number: 01-A68602
Sample ID: KB-4 10.5-11.5
Project: 2961A
Page 2

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Date	Time	Analyst	Method	Batch
3,3'-Dichlorobenzidine	ND	mg/kg	0.330	0.330	1	5/26/01	4:51	Jeanmarie	8270C	8348
2,4-Dichlorophenol	ND	mg/kg	0.330	0.330	1	5/26/01	4:51	Jeanmarie	8270C	8348
Diethylphthalate	ND	mg/kg	0.330	0.330	1	5/26/01	4:51	Jeanmarie	8270C	8348
2,4-Dimethylphenol	ND	mg/kg	0.330	0.330	1	5/26/01	4:51	Jeanmarie	8270C	8348
Dimethylphthalate	ND	mg/kg	0.330	0.330	1	5/26/01	4:51	Jeanmarie	8270C	8348
Di-n-butylphthalate	ND	mg/kg	0.330	0.330	1	5/26/01	4:51	Jeanmarie	8270C	8348
4,6-Dinitro-2-methylphenol	ND	mg/kg	0.330	0.330	1	5/26/01	4:51	Jeanmarie	8270C	8348
2,4-Dinitrophenol	ND	mg/kg	0.330	0.330	1	5/26/01	4:51	Jeanmarie	8270C	8348
2,4-dinitrotoluene	ND	mg/kg	0.330	0.330	1	5/26/01	4:51	Jeanmarie	8270C	8348
2,6-Dinitrotoluene	ND	mg/kg	0.330	0.330	1	5/26/01	4:51	Jeanmarie	8270C	8348
Di-n-octylphthalate	ND	mg/kg	0.330	0.330	1	5/26/01	4:51	Jeanmarie	8270C	8348
Fluoranthene	ND	mg/kg	0.330	0.330	1	5/26/01	4:51	Jeanmarie	8270C	8348
Fluorene	ND	mg/kg	0.330	0.330	1	5/26/01	4:51	Jeanmarie	8270C	8348
Hexachlorobenzene	ND	mg/kg	0.330	0.330	1	5/26/01	4:51	Jeanmarie	8270C	8348
Hexachlorobutadiene	ND	mg/kg	0.330	0.330	1	5/26/01	4:51	Jeanmarie	8270C	8348
Hexachlorocyclopentadiene	ND	mg/kg	0.330	0.330	1	5/26/01	4:51	Jeanmarie	8270C	8348
Hexachloroethane	ND	mg/kg	0.330	0.330	1	5/26/01	4:51	Jeanmarie	8270C	8348
Indeno(1,2,3-cd)pyrene	ND	mg/kg	0.330	0.330	1	5/26/01	4:51	Jeanmarie	8270C	8348
Isophorone	ND	mg/kg	0.330	0.330	1	5/26/01	4:51	Jeanmarie	8270C	8348
2-Methylnaphthalene	ND	mg/kg	0.330	0.330	1	5/26/01	4:51	Jeanmarie	8270C	8348
2-Methylphenol	ND	mg/kg	0.330	0.330	1	5/26/01	4:51	Jeanmarie	8270C	8348
m,p-Methylphenol	ND	mg/kg	0.330	0.330	1	5/26/01	4:51	Jeanmarie	8270C	8348
Naphthalene	ND	mg/kg	0.330	0.330	1	5/26/01	4:51	Jeanmarie	8270C	8348
2-Nitroaniline	ND	mg/kg	0.330	0.330	1	5/26/01	4:51	Jeanmarie	8270C	8348
3-Nitroaniline	ND	mg/kg	0.330	0.330	1	5/26/01	4:51	Jeanmarie	8270C	8348
4-Nitroaniline	ND	mg/kg	0.330	0.330	1	5/26/01	4:51	Jeanmarie	8270C	8348
Nitrobenzene	ND	mg/kg	0.330	0.330	1	5/26/01	4:51	Jeanmarie	8270C	8348
2-Nitrophenol	ND	mg/kg	0.330	0.330	1	5/26/01	4:51	Jeanmarie	8270C	8348
4-Nitrophenol	ND	mg/kg	0.330	0.330	1	5/26/01	4:51	Jeanmarie	8270C	8348
N-nitrosodi-n-propylamine	ND	mg/kg	0.330	0.330	1	5/26/01	4:51	Jeanmarie	8270C	8348
N-nitrosodiphenylamine	ND	mg/kg	0.330	0.330	1	5/26/01	4:51	Jeanmarie	8270C	8348
Pentachlorophenol	ND	mg/kg	0.330	0.330	1	5/26/01	4:51	Jeanmarie	8270C	8348
Phenanthrene	ND	mg/kg	0.330	0.330	1	5/26/01	4:51	Jeanmarie	8270C	8348
Phenol	ND	mg/kg	0.330	0.330	1	5/26/01	4:51	Jeanmarie	8270C	8348

ıple report continued . . .

TestAmerica
INCORPORATED

ANALYTICAL REPORT

Laboratory Number: 01-A68602
Sample ID: KB-4 10.5-11.5
Project: 2961A

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Date	Time	Analyst	Method	Batch
Pyrene	ND	mg/kg	0.330	0.330	1	5/26/01	4:51	Jeanmarie	8270C	8348
Bis(2-ethylhexyl)phthalate	ND	mg/kg	0.330	0.330	1	5/26/01	4:51	Jeanmarie	8270C	8348
1,2,4-Trichlorobenzene	ND	mg/kg	0.330	0.330	1	5/26/01	4:51	Jeanmarie	8270C	8348
2,4,5-Trichlorophenol	ND	mg/kg	0.330	0.330	1	5/26/01	4:51	Jeanmarie	8270C	8348
2,4,6-Trichlorophenol	ND	mg/kg	0.330	0.330	1	5/26/01	4:51	Jeanmarie	8270C	8348
VOLATILE ORGANICS										
Acetone	ND	mg/kg	0.0500	0.0500	1	5/30/01	2:44	S. Wani	8260B	7065
Benzene	ND	mg/kg	0.0020	0.0020	1	5/30/01	2:44	S. Wani	8260B	7065
Bromobenzene	ND	mg/kg	0.0020	0.0020	1	5/30/01	2:44	S. Wani	8260B	7065
Bromochloromethane	ND	mg/kg	0.0020	0.0020	1	5/30/01	2:44	S. Wani	8260B	7065
Bromoform	ND	mg/kg	0.0020	0.0020	1	5/30/01	2:44	S. Wani	8260B	7065
Bromomethane	ND	mg/kg	0.0020	0.0020	1	5/30/01	2:44	S. Wani	8260B	7065
2-Butanone	ND	mg/kg	0.0500	0.0500	1	5/30/01	2:44	S. Wani	8260B	7065
n-Butylbenzene	ND	mg/kg	0.0020	0.0020	1	5/30/01	2:44	S. Wani	8260B	7065
sec-Butylbenzene	ND	mg/kg	0.0020	0.0020	1	5/30/01	2:44	S. Wani	8260B	7065
t-Butylbenzene	ND	mg/kg	0.0020	0.0020	1	5/30/01	2:44	S. Wani	8260B	7065
Carbon disulfide	ND	mg/kg	0.0020	0.0020	1	5/30/01	2:44	S. Wani	8260B	7065
Carbon tetrachloride	ND	mg/kg	0.0020	0.0020	1	5/30/01	2:44	S. Wani	8260B	7065
Chlorobenzene	ND	mg/kg	0.0020	0.0020	1	5/30/01	2:44	S. Wani	8260B	7065
Chloroethane	ND	mg/kg	0.0020	0.0020	1	5/30/01	2:44	S. Wani	8260B	7065
Chloroform	ND	mg/kg	0.0020	0.0020	1	5/30/01	2:44	S. Wani	8260B	7065
Chloromethane	ND	mg/kg	0.0020	0.0020	1	5/30/01	2:44	S. Wani	8260B	7065
2-Chlorotoluene	ND	mg/kg	0.0020	0.0020	1	5/30/01	2:44	S. Wani	8260B	7065
4-Chlorotoluene	ND	mg/kg	0.0020	0.0020	1	5/30/01	2:44	S. Wani	8260B	7065
1,2-Dibromo-3-chloropropane	ND	mg/kg	0.0100	0.0100	1	5/30/01	2:44	S. Wani	8260B	7065
Dibromochloromethane	ND	mg/kg	0.0020	0.0020	1	5/30/01	2:44	S. Wani	8260B	7065
1,2-Dibromoethane	ND	mg/kg	0.0020	0.0020	1	5/30/01	2:44	S. Wani	8260B	7065
Dibromomethane	ND	mg/kg	0.0020	0.0020	1	5/30/01	2:44	S. Wani	8260B	7065
1,2-Dichlorobenzene	ND	mg/kg	0.0020	0.0020	1	5/30/01	2:44	S. Wani	8260B	7065
1,3-Dichlorobenzene	ND	mg/kg	0.0020	0.0020	1	5/30/01	2:44	S. Wani	8260B	7065
1,4-Dichlorobenzene	ND	mg/kg	0.0020	0.0020	1	5/30/01	2:44	S. Wani	8260B	7065
Dichlorodifluoromethane	ND	mg/kg	0.0020	0.0020	1	5/30/01	2:44	S. Wani	8260B	7065
1,1-Dichloroethane	ND	mg/kg	0.0020	0.0020	1	5/30/01	2:44	S. Wani	8260B	7065

ıple report continued . . .

TestAmerica
INCORPORATED

ANALYTICAL REPORT

Laboratory Number: 01-A68602
Sample ID: KB-4 10.5-11.5
Project: 2961A
Page 4

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Date	Time	Analyst	Method	Batch
1,2-Dichloroethane	ND	mg/kg	0.0020	0.0020	1	5/30/01	2:44	S. Wani	8260B	7065
1,1-Dichloroethene	ND	mg/kg	0.0020	0.0020	1	5/30/01	2:44	S. Wani	8260B	7065
cis-1,2-Dichloroethene	ND	mg/kg	0.0020	0.0020	1	5/30/01	2:44	S. Wani	8260B	7065
trans-1,2-Dichloroethene	ND	mg/kg	0.0020	0.0020	1	5/30/01	2:44	S. Wani	8260B	7065
1,2-Dichloropropane	ND	mg/kg	0.0020	0.0020	1	5/30/01	2:44	S. Wani	8260B	7065
1,3-Dichloropropane	ND	mg/kg	0.0020	0.0020	1	5/30/01	2:44	S. Wani	8260B	7065
2,2-Dichloropropane	ND	mg/kg	0.0020	0.0020	1	5/30/01	2:44	S. Wani	8260B	7065
1,1-Dichloropropene	ND	mg/kg	0.0020	0.0020	1	5/30/01	2:44	S. Wani	8260B	7065
cis-1,3-Dichloropropene	ND	mg/kg	0.0020	0.0020	1	5/30/01	2:44	S. Wani	8260B	7065
trans-1,3-Dichloropropene	ND	mg/kg	0.0020	0.0020	1	5/30/01	2:44	S. Wani	8260B	7065
Ethylbenzene	ND	mg/kg	0.0020	0.0020	1	5/30/01	2:44	S. Wani	8260B	7065
Hexachlorobutadiene	ND	mg/kg	0.0020	0.0020	1	5/30/01	2:44	S. Wani	8260B	7065
2-Hexanone	ND	mg/kg	0.0100	0.0100	1	5/30/01	2:44	S. Wani	8260B	7065
Isopropylbenzene	ND	mg/kg	0.0020	0.0020	1	5/30/01	2:44	S. Wani	8260B	7065
4-Isopropyltoluene	ND	mg/kg	0.0020	0.0020	1	5/30/01	2:44	S. Wani	8260B	7065
4-Methyl-2-pentanone	ND	mg/kg	0.0100	0.0100	1	5/30/01	2:44	S. Wani	8260B	7065
Methylene chloride	ND	mg/kg	0.0050	0.0050	1	5/30/01	2:44	S. Wani	8260B	7065
Naphthalene	ND	mg/kg	0.0050	0.0050	1	5/30/01	2:44	S. Wani	8260B	7065
n-Propylbenzene	ND	mg/kg	0.0020	0.0020	1	5/30/01	2:44	S. Wani	8260B	7065
Styrene	ND	mg/kg	0.0020	0.0020	1	5/30/01	2:44	S. Wani	8260B	7065
1,1,1,2-Tetrachloroethane	ND	mg/kg	0.0020	0.0020	1	5/30/01	2:44	S. Wani	8260B	7065
1,1,2,2-Tetrachloroethane	ND	mg/kg	0.0020	0.0020	1	5/30/01	2:44	S. Wani	8260B	7065
Tetrachloroethene	ND	mg/kg	0.0020	0.0020	1	5/30/01	2:44	S. Wani	8260B	7065
Toluene	ND	mg/kg	0.0020	0.0020	1	5/30/01	2:44	S. Wani	8260B	7065
1,2,3-Trichlorobenzene	ND	mg/kg	0.0020	0.0020	1	5/30/01	2:44	S. Wani	8260B	7065
1,2,4-Trichlorobenzene	ND	mg/kg	0.0020	0.0020	1	5/30/01	2:44	S. Wani	8260B	7065
1,1,1-Trichloroethane	ND	mg/kg	0.0020	0.0020	1	5/30/01	2:44	S. Wani	8260B	7065
1,1,2-Trichloroethane	ND	mg/kg	0.0020	0.0020	1	5/30/01	2:44	S. Wani	8260B	7065
Trichloroethene	ND	mg/kg	0.0020	0.0020	1	5/30/01	2:44	S. Wani	8260B	7065
1,2,3-Trichloropropane	ND	mg/kg	0.0020	0.0020	1	5/30/01	2:44	S. Wani	8260B	7065
1,2,4-Trimethylbenzene	ND	mg/kg	0.0020	0.0020	1	5/30/01	2:44	S. Wani	8260B	7065
1,3,5-Trimethylbenzene	ND	mg/kg	0.0020	0.0020	1	5/30/01	2:44	S. Wani	8260B	7065
Vinyl chloride	ND	mg/kg	0.0020	0.0020	1	5/30/01	2:44	S. Wani	8260B	7065
Xylenes, Total	ND	mg/kg	0.0020	0.0020	1	5/30/01	2:44	S. Wani	8260B	7065

nple report continued . . .

TestAmerica
INCORPORATED

ANALYTICAL REPORT

Laboratory Number: 01-A68602
Sample ID: KB-4 10.5-11.5
Project: 2961A

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Date	Time	Analyst	Method	Batch
Bromodichloromethane	ND	mg/kg	0.0020	0.0020	1	5/30/01	2:44	S. Wani	8260B	7065
Trichlorofluoromethane	ND	mg/kg	0.0020	0.0020	1	5/30/01	2:44	S. Wani	8260B	7065
PESTICIDE/PCB's/HERBICIDES										
Aroclor 1016	ND	mg/kg	0.0200	0.0200	1	5/25/01	19:49	M. Cauthen	8082	8363
Aroclor 1221	ND	mg/kg	0.0200	0.0200	1	5/25/01	19:49	M. Cauthen	8082	8363
Aroclor 1232	ND	mg/kg	0.0200	0.0200	1	5/25/01	19:49	M. Cauthen	8082	8363
Aroclor 1242	ND	mg/kg	0.0200	0.0200	1	5/25/01	19:49	M. Cauthen	8082	8363
Aroclor 1248	ND	mg/kg	0.0200	0.0200	1	5/25/01	19:49	M. Cauthen	8082	8363
Aroclor 1254	ND	mg/kg	0.0200	0.0200	1	5/25/01	19:49	M. Cauthen	8082	8363
Aroclor 1260	ND	mg/kg	0.0200	0.0200	1	5/25/01	19:49	M. Cauthen	8082	8363
METALS										
Arsenic	6.16	mg/kg	0.994	0.994	1	5/24/01	16:34	G.McCord	6010B	7298
Barium	77.7	mg/kg	0.994	0.994	1	5/24/01	16:34	G.McCord	6010B	7298
Cadmium	ND	mg/kg	0.994	0.994	1	5/24/01	16:34	G.McCord	6010B	7298
Chromium	16.3	mg/kg	0.994	0.994	1	5/24/01	16:34	G.McCord	6010B	7298
Copper	7.95	mg/kg	0.994	0.994	1	5/24/01	16:34	G.McCord	6010B	7298
Lead	4.18	mg/kg	0.994	0.994	1	5/24/01	16:34	G.McCord	6010B	7298
Mercury	ND	mg/kg	0.099	0.099	1	5/24/01	12:44	C. Terry	7471	7307
Selenium	0.994	mg/kg	0.994	0.994	1	5/24/01	16:34	G.McCord	6010B	7298
Silver	ND	mg/kg	0.994	0.994	1	5/24/01	16:34	G.McCord	6010B	7298
pH	7.90	pH units			1	5/25/01	11:35	K.Bundy	9045	7168

ND - Not detected at the report limit.

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Time	Analyst	Method
BNA's	30.2 gm	1.0 ml	5/23/01		J. Rudden	3550

mple report continued . . .

TestAmerica
INCORPORATED

ANALYTICAL REPORT

Laboratory Number: 01-A68602
Sample ID: KB-4 10.5-11.5
Project: 2961A

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Time	Analyst	Method
PCB's	30.0 gm	10.0 ml	5/23/01		J. Rudden	3550

Surrogate	% Recovery	Target Range
surr-1,2-Dichloroethane, d4	97.	50. - 140.
surr-Toluene d8	99.	75. - 141.
surr-4-Bromofluorobenzene	99.	69. - 131.
surr-Dibromofluoromethane	98.	76. - 136.
BNA Surr-Nitrobenzene-d5	71.	26. - 110.
BNA Surr-2-Fluorobiphenyl	73.	28. - 112.
BNA Surr-Terphenyl d14	95.	40. - 124.
BNA Surr-Phenol d5	80.	29. - 121.
BNA Surr-2-Fluorophenol	69.	20. - 113.
BNA Surr-2,4,6-Tribromophenol	99.	29. - 144.
pcb surr-TCMX	108.	23. - 156.
pcb surr-DCB	110.	15. - 130.

- Recovery outside Laboratory historical limits.

All results reported on a wet weight basis.

Sample for pH analysis received outside method prescribed holding time.

nple report continued . . .

TestAmerica
INCORPORATED

ANALYTICAL REPORT

Laboratory Number: 01-A68602
Sample ID: KB-4 10.5-11.5
Project: 2961A
Page 7

These results relate only to the items tested.
This report shall not be reproduced except in full and with permission of the laboratory.

Report Approved By: _____ Report Date: 6/ 1/01

Paul E. Lane, Jr., Lab Director
Michael H. Dunn, M.S., Technical Director
Johnny A. Mitchell, Dir. Technical Serv.
Eric S. Smith, Assistant Technical Director
Gail A. Lage, Technical Serv.
Glenn L. Norton, Technical Serv.
Kelly S. Comstock, Technical Serv.
Pamela A. Langford, Technical Serv.

Laboratory Certification Number: AZ0473

nd of Sample Report.

TestAmerica
INCORPORATED

ANALYTICAL REPORT

KERAMIDA ENVIRONMENTAL 6028
KRISTEN BELLCREDI
330 N. COLLEGE AVENUE
INDIANAPOLIS, IN 46202

Lab Number: 01-A68603
Sample ID: KB-5 0-1.5
Sample Type: Soil
Site ID:

Project: 2961A
Project Name: FRUEHAUF-PHOENIX
Sampler: B.H.

Date Collected: 5/22/01
Time Collected: 11:00
Date Received: 5/23/01
Time Received: 9:00

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Date	Time	Analyst	Method	Batch
EXTRACTABLE ORGANICS										
Acenaphthene	ND	mg/kg	0.330	0.330	1	5/26/01	5:29	Jeanmarie	8270C	8348
Acenaphthylene	ND	mg/kg	0.330	0.330	1	5/26/01	5:29	Jeanmarie	8270C	8348
Anthracene	ND	mg/kg	0.330	0.330	1	5/26/01	5:29	Jeanmarie	8270C	8348
Benzo(a)anthracene	ND	mg/kg	0.330	0.330	1	5/26/01	5:29	Jeanmarie	8270C	8348
Benzo(a)pyrene	ND	mg/kg	0.330	0.330	1	5/26/01	5:29	Jeanmarie	8270C	8348
Benzo(b)fluoranthene	ND	mg/kg	0.330	0.330	1	5/26/01	5:29	Jeanmarie	8270C	8348
Benzo(g,h,i)perylene	ND	mg/kg	0.330	0.330	1	5/26/01	5:29	Jeanmarie	8270C	8348
Benzo(k)fluoranthene	ND	mg/kg	0.330	0.330	1	5/26/01	5:29	Jeanmarie	8270C	8348
4-Bromophenylphenylether	ND	mg/kg	0.330	0.330	1	5/26/01	5:29	Jeanmarie	8270C	8348
Butylbenzylphthalate	ND	mg/kg	0.330	0.330	1	5/26/01	5:29	Jeanmarie	8270C	8348
Carbazole	ND	mg/kg	0.330	0.330	1	5/26/01	5:29	Jeanmarie	8270C	8348
4-Chloro-3-methylphenol	ND	mg/kg	0.330	0.330	1	5/26/01	5:29	Jeanmarie	8270C	8348
4-Chloroaniline	ND	mg/kg	0.330	0.330	1	5/26/01	5:29	Jeanmarie	8270C	8348
bis(2-Chloroethoxy)methane	ND	mg/kg	0.330	0.330	1	5/26/01	5:29	Jeanmarie	8270C	8348
bis(2-Chloroethyl)ether	ND	mg/kg	0.330	0.330	1	5/26/01	5:29	Jeanmarie	8270C	8348
bis(2-Chloroisopropyl)ether	ND	mg/kg	0.330	0.330	1	5/26/01	5:29	Jeanmarie	8270C	8348
2-Chloronaphthalene	ND	mg/kg	0.330	0.330	1	5/26/01	5:29	Jeanmarie	8270C	8348
2-Chlorophenol	ND	mg/kg	0.330	0.330	1	5/26/01	5:29	Jeanmarie	8270C	8348
4-Chlorophenylphenylether	ND	mg/kg	0.330	0.330	1	5/26/01	5:29	Jeanmarie	8270C	8348
Chrysene	ND	mg/kg	0.330	0.330	1	5/26/01	5:29	Jeanmarie	8270C	8348
Dibenzofuran	ND	mg/kg	0.330	0.330	1	5/26/01	5:29	Jeanmarie	8270C	8348
Dibenz(a,h)anthracene	ND	mg/kg	0.330	0.330	1	5/26/01	5:29	Jeanmarie	8270C	8348
1,2-Dichlorobenzene	ND	mg/kg	0.330	0.330	1	5/26/01	5:29	Jeanmarie	8270C	8348
1,3-Dichlorobenzene	ND	mg/kg	0.330	0.330	1	5/26/01	5:29	Jeanmarie	8270C	8348
1,4-Dichlorobenzene	ND	mg/kg	0.330	0.330	1	5/26/01	5:29	Jeanmarie	8270C	8348

le report continued . . .

TestAmerica
INCORPORATED

ANALYTICAL REPORT

Laboratory Number: 01-A68603
Sample ID: KB-5 0-1.5
Project: 2961A
Page 2

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Date	Time	Analyst	Method	Batch
3,3'-Dichlorobenzidine	ND	mg/kg	0.330	0.330	1	5/26/01	5:29	Jeanmarie	8270C	8348
2,4-Dichlorophenol	ND	mg/kg	0.330	0.330	1	5/26/01	5:29	Jeanmarie	8270C	8348
Diethylphthalate	ND	mg/kg	0.330	0.330	1	5/26/01	5:29	Jeanmarie	8270C	8348
2,4-Dimethylphenol	ND	mg/kg	0.330	0.330	1	5/26/01	5:29	Jeanmarie	8270C	8348
Dimethylphthalate	ND	mg/kg	0.330	0.330	1	5/26/01	5:29	Jeanmarie	8270C	8348
Di-n-butylphthalate	ND	mg/kg	0.330	0.330	1	5/26/01	5:29	Jeanmarie	8270C	8348
4,6-Dinitro-2-methylphenol	ND	mg/kg	0.330	0.330	1	5/26/01	5:29	Jeanmarie	8270C	8348
2,4-Dinitrophenol	ND	mg/kg	0.330	0.330	1	5/26/01	5:29	Jeanmarie	8270C	8348
2,4-dinitrotoluene	ND	mg/kg	0.330	0.330	1	5/26/01	5:29	Jeanmarie	8270C	8348
2,6-Dinitrotoluene	ND	mg/kg	0.330	0.330	1	5/26/01	5:29	Jeanmarie	8270C	8348
Di-n-octylphthalate	ND	mg/kg	0.330	0.330	1	5/26/01	5:29	Jeanmarie	8270C	8348
Fluoranthene	ND	mg/kg	0.330	0.330	1	5/26/01	5:29	Jeanmarie	8270C	8348
Fluorene	ND	mg/kg	0.330	0.330	1	5/26/01	5:29	Jeanmarie	8270C	8348
Hexachlorobenzene	ND	mg/kg	0.330	0.330	1	5/26/01	5:29	Jeanmarie	8270C	8348
Hexachlorobutadiene	ND	mg/kg	0.330	0.330	1	5/26/01	5:29	Jeanmarie	8270C	8348
Hexachlorocyclopentadiene	ND	mg/kg	0.330	0.330	1	5/26/01	5:29	Jeanmarie	8270C	8348
Hexachloroethane	ND	mg/kg	0.330	0.330	1	5/26/01	5:29	Jeanmarie	8270C	8348
Indeno(1,2,3-cd)pyrene	ND	mg/kg	0.330	0.330	1	5/26/01	5:29	Jeanmarie	8270C	8348
Isophorone	ND	mg/kg	0.330	0.330	1	5/26/01	5:29	Jeanmarie	8270C	8348
2-Methylnaphthalene	ND	mg/kg	0.330	0.330	1	5/26/01	5:29	Jeanmarie	8270C	8348
2-Methylphenol	ND	mg/kg	0.330	0.330	1	5/26/01	5:29	Jeanmarie	8270C	8348
m,p-Methylphenol	ND	mg/kg	0.330	0.330	1	5/26/01	5:29	Jeanmarie	8270C	8348
Naphthalene	ND	mg/kg	0.330	0.330	1	5/26/01	5:29	Jeanmarie	8270C	8348
2-Nitroaniline	ND	mg/kg	0.330	0.330	1	5/26/01	5:29	Jeanmarie	8270C	8348
3-Nitroaniline	ND	mg/kg	0.330	0.330	1	5/26/01	5:29	Jeanmarie	8270C	8348
4-Nitroaniline	ND	mg/kg	0.330	0.330	1	5/26/01	5:29	Jeanmarie	8270C	8348
Nitrobenzene	ND	mg/kg	0.330	0.330	1	5/26/01	5:29	Jeanmarie	8270C	8348
2-Nitrophenol	ND	mg/kg	0.330	0.330	1	5/26/01	5:29	Jeanmarie	8270C	8348
4-Nitrophenol	ND	mg/kg	0.330	0.330	1	5/26/01	5:29	Jeanmarie	8270C	8348
N-nitrosodi-n-propylamine	ND	mg/kg	0.330	0.330	1	5/26/01	5:29	Jeanmarie	8270C	8348
N-nitrosodiphenylamine	ND	mg/kg	0.330	0.330	1	5/26/01	5:29	Jeanmarie	8270C	8348
Pentachlorophenol	ND	mg/kg	0.330	0.330	1	5/26/01	5:29	Jeanmarie	8270C	8348
Phenanthrene	ND	mg/kg	0.330	0.330	1	5/26/01	5:29	Jeanmarie	8270C	8348
Phenol	ND	mg/kg	0.330	0.330	1	5/26/01	5:29	Jeanmarie	8270C	8348

ple report continued . . .

TestAmerica
INCORPORATED

ANALYTICAL REPORT

Laboratory Number: 01-A68603
Sample ID: KB-5 0-1.5
Project: 2961A

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Date	Time	Analyst	Method	Batch
Pyrene	ND	mg/kg	0.330	0.330	1	5/26/01	5:29	Jeanmarie	8270C	8348
Bis(2-ethylhexyl)phthalate	ND	mg/kg	0.330	0.330	1	5/26/01	5:29	Jeanmarie	8270C	8348
1,2,4-Trichlorobenzene	ND	mg/kg	0.330	0.330	1	5/26/01	5:29	Jeanmarie	8270C	8348
2,4,5-Trichlorophenol	ND	mg/kg	0.330	0.330	1	5/26/01	5:29	Jeanmarie	8270C	8348
2,4,6-Trichlorophenol	ND	mg/kg	0.330	0.330	1	5/26/01	5:29	Jeanmarie	8270C	8348
VOLATILE ORGANICS										
Acetone	ND	mg/kg	0.0500	0.0500	1	5/30/01	3:22	S. Wani	8260B	7065
Benzene	ND	mg/kg	0.0020	0.0020	1	5/30/01	3:22	S. Wani	8260B	7065
Bromobenzene	ND	mg/kg	0.0020	0.0020	1	5/30/01	3:22	S. Wani	8260B	7065
Bromochloromethane	ND	mg/kg	0.0020	0.0020	1	5/30/01	3:22	S. Wani	8260B	7065
Bromoform	ND	mg/kg	0.0020	0.0020	1	5/30/01	3:22	S. Wani	8260B	7065
Bromomethane	ND	mg/kg	0.0020	0.0020	1	5/30/01	3:22	S. Wani	8260B	7065
2-Butanone	ND	mg/kg	0.0500	0.0500	1	5/30/01	3:22	S. Wani	8260B	7065
n-Butylbenzene	ND	mg/kg	0.0020	0.0020	1	5/30/01	3:22	S. Wani	8260B	7065
sec-Butylbenzene	ND	mg/kg	0.0020	0.0020	1	5/30/01	3:22	S. Wani	8260B	7065
t-Butylbenzene	ND	mg/kg	0.0020	0.0020	1	5/30/01	3:22	S. Wani	8260B	7065
Carbon disulfide	ND	mg/kg	0.0020	0.0020	1	5/30/01	3:22	S. Wani	8260B	7065
Carbon tetrachloride	ND	mg/kg	0.0020	0.0020	1	5/30/01	3:22	S. Wani	8260B	7065
Chlorobenzene	ND	mg/kg	0.0020	0.0020	1	5/30/01	3:22	S. Wani	8260B	7065
Chloroethane	ND	mg/kg	0.0020	0.0020	1	5/30/01	3:22	S. Wani	8260B	7065
Chloroform	ND	mg/kg	0.0020	0.0020	1	5/30/01	3:22	S. Wani	8260B	7065
Chloromethane	ND	mg/kg	0.0020	0.0020	1	5/30/01	3:22	S. Wani	8260B	7065
2-Chlorotoluene	ND	mg/kg	0.0020	0.0020	1	5/30/01	3:22	S. Wani	8260B	7065
4-Chlorotoluene	ND	mg/kg	0.0020	0.0020	1	5/30/01	3:22	S. Wani	8260B	7065
1,2-Dibromo-3-chloropropane	ND	mg/kg	0.0100	0.0100	1	5/30/01	3:22	S. Wani	8260B	7065
Dibromochloromethane	ND	mg/kg	0.0020	0.0020	1	5/30/01	3:22	S. Wani	8260B	7065
1,2-Dibromoethane	ND	mg/kg	0.0020	0.0020	1	5/30/01	3:22	S. Wani	8260B	7065
Dibromomethane	ND	mg/kg	0.0020	0.0020	1	5/30/01	3:22	S. Wani	8260B	7065
1,2-Dichlorobenzene	ND	mg/kg	0.0020	0.0020	1	5/30/01	3:22	S. Wani	8260B	7065
1,3-Dichlorobenzene	ND	mg/kg	0.0020	0.0020	1	5/30/01	3:22	S. Wani	8260B	7065
1,4-Dichlorobenzene	ND	mg/kg	0.0020	0.0020	1	5/30/01	3:22	S. Wani	8260B	7065
Dichlorodifluoromethane	ND	mg/kg	0.0020	0.0020	1	5/30/01	3:22	S. Wani	8260B	7065
1,1-Dichloroethane	ND	mg/kg	0.0020	0.0020	1	5/30/01	3:22	S. Wani	8260B	7065

ıple report continued . . .

TestAmerica
INCORPORATED

ANALYTICAL REPORT

Laboratory Number: 01-A68603
Sample ID: KB-5 0-1.5
Project: 2961A

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Date	Time	Analyst	Method	Batch
1,2-Dichloroethane	ND	mg/kg	0.0020	0.0020	1	5/30/01	3:22	S. Wani	8260B	7065
1,1-Dichloroethene	ND	mg/kg	0.0020	0.0020	1	5/30/01	3:22	S. Wani	8260B	7065
cis-1,2-Dichloroethene	ND	mg/kg	0.0020	0.0020	1	5/30/01	3:22	S. Wani	8260B	7065
trans-1,2-Dichloroethene	ND	mg/kg	0.0020	0.0020	1	5/30/01	3:22	S. Wani	8260B	7065
1,2-Dichloropropane	ND	mg/kg	0.0020	0.0020	1	5/30/01	3:22	S. Wani	8260B	7065
1,3-Dichloropropane	ND	mg/kg	0.0020	0.0020	1	5/30/01	3:22	S. Wani	8260B	7065
2,2-Dichloropropane	ND	mg/kg	0.0020	0.0020	1	5/30/01	3:22	S. Wani	8260B	7065
1,1-Dichloropropene	ND	mg/kg	0.0020	0.0020	1	5/30/01	3:22	S. Wani	8260B	7065
cis-1,3-Dichloropropene	ND	mg/kg	0.0020	0.0020	1	5/30/01	3:22	S. Wani	8260B	7065
trans-1,3-Dichloropropene	ND	mg/kg	0.0020	0.0020	1	5/30/01	3:22	S. Wani	8260B	7065
Ethylbenzene	ND	mg/kg	0.0020	0.0020	1	5/30/01	3:22	S. Wani	8260B	7065
Hexachlorobutadiene	ND	mg/kg	0.0020	0.0020	1	5/30/01	3:22	S. Wani	8260B	7065
2-Hexanone	ND	mg/kg	0.0100	0.0100	1	5/30/01	3:22	S. Wani	8260B	7065
Isopropylbenzene	ND	mg/kg	0.0020	0.0020	1	5/30/01	3:22	S. Wani	8260B	7065
4-Isopropyltoluene	ND	mg/kg	0.0020	0.0020	1	5/30/01	3:22	S. Wani	8260B	7065
4-Methyl-2-pentanone	ND	mg/kg	0.0100	0.0100	1	5/30/01	3:22	S. Wani	8260B	7065
Methylene chloride	ND	mg/kg	0.0050	0.0050	1	5/30/01	3:22	S. Wani	8260B	7065
Naphthalene	ND	mg/kg	0.0050	0.0050	1	5/30/01	3:22	S. Wani	8260B	7065
n-Propylbenzene	ND	mg/kg	0.0020	0.0020	1	5/30/01	3:22	S. Wani	8260B	7065
Styrene	ND	mg/kg	0.0020	0.0020	1	5/30/01	3:22	S. Wani	8260B	7065
1,1,1,2-Tetrachloroethane	ND	mg/kg	0.0020	0.0020	1	5/30/01	3:22	S. Wani	8260B	7065
1,1,2,2-Tetrachloroethane	ND	mg/kg	0.0020	0.0020	1	5/30/01	3:22	S. Wani	8260B	7065
Tetrachloroethene	ND	mg/kg	0.0020	0.0020	1	5/30/01	3:22	S. Wani	8260B	7065
Toluene	ND	mg/kg	0.0020	0.0020	1	5/30/01	3:22	S. Wani	8260B	7065
1,2,3-Trichlorobenzene	ND	mg/kg	0.0020	0.0020	1	5/30/01	3:22	S. Wani	8260B	7065
1,2,4-Trichlorobenzene	ND	mg/kg	0.0020	0.0020	1	5/30/01	3:22	S. Wani	8260B	7065
1,1,1-Trichloroethane	ND	mg/kg	0.0020	0.0020	1	5/30/01	3:22	S. Wani	8260B	7065
1,1,2-Trichloroethane	ND	mg/kg	0.0020	0.0020	1	5/30/01	3:22	S. Wani	8260B	7065
Trichloroethene	ND	mg/kg	0.0020	0.0020	1	5/30/01	3:22	S. Wani	8260B	7065
1,2,3-Trichloropropane	ND	mg/kg	0.0020	0.0020	1	5/30/01	3:22	S. Wani	8260B	7065
1,2,4-Trimethylbenzene	ND	mg/kg	0.0020	0.0020	1	5/30/01	3:22	S. Wani	8260B	7065
1,3,5-Trimethylbenzene	ND	mg/kg	0.0020	0.0020	1	5/30/01	3:22	S. Wani	8260B	7065
Vinyl chloride	ND	mg/kg	0.0020	0.0020	1	5/30/01	3:22	S. Wani	8260B	7065
Xylenes, Total	ND	mg/kg	0.0020	0.0020	1	5/30/01	3:22	S. Wani	8260B	7065

ple report continued . . .

TestAmerica
INCORPORATED

ANALYTICAL REPORT

Laboratory Number: 01-A68603
Sample ID: KB-5 0-1.5
Project: 2961A
Page 5

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Date	Time	Analyst	Method	Batch
Bromodichloromethane	ND	mg/kg	0.0020	0.0020	1	5/30/01	3:22	S. Wani	8260B	7065
Trichlorofluoromethane	ND	mg/kg	0.0020	0.0020	1	5/30/01	3:22	S. Wani	8260B	7065
METALS										
Arsenic	9.22	mg/kg	0.980	0.980	1	5/29/01	19:35	G.McCord	6010B	9323
Barium	110.	mg/kg	0.980	0.980	1	5/29/01	19:35	G.McCord	6010B	9323
Cadmium	ND	mg/kg	0.980	0.980	1	5/29/01	19:35	G.McCord	6010B	9323
Chromium	34.5	mg/kg	0.980	0.980	1	5/29/01	19:35	G.McCord	6010B	9323
Lead	4.12	mg/kg	0.980	0.980	1	5/29/01	19:35	G.McCord	6010B	9323
Mercury	ND	mg/kg	0.098	0.098	1	5/25/01	13:14	C. Terry	7471	8272
Selenium	ND	mg/kg	0.980	0.980	1	5/29/01	19:35	G.McCord	6010B	9323
Silver	ND	mg/kg	0.980	0.980	1	5/29/01	19:35	G.McCord	6010B	9323
pH	7.90	pH units			1	5/25/01	11:41	K.Bundy	9045	7168

ND - Not detected at the report limit.

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Time	Analyst	Method
BNA's	30.0 gm	1.0 ml	5/23/01		J. Rudden	3550

Surrogate	% Recovery	Target Range
surr-1,2-Dichloroethane, d4	96.	50. - 140.
surr-Toluene d8	100.	75. - 141.
surr-4-Bromofluorobenzene	99.	69. - 131.
surr-Dibromofluoromethane	98.	76. - 136.
BNA Surr-Nitrobenzene-d5	74.	26. - 110.

ıple report continued . . .

TestAmerica
INCORPORATED

ANALYTICAL REPORT

Laboratory Number: 01-A68603
Sample ID: KB-5 0-1.5
Project: 2961A
Page 6

Surrogate	% Recovery	Target Range
BNA Surr-2-Fluorobiphenyl	105.	28. - 112.
BNA Surr-Terphenyl d14	83.	40. - 124.
BNA Surr-Phenol d5	84.	29. - 121.
BNA Surr-2-Fluorophenol	76.	20. - 113.
BNA Surr-2,4,6-Tribromophenol	124.	29. - 144.

- Recovery outside Laboratory historical limits.

All results reported on a wet weight basis.

Sample for pH analysis received outside method prescribed holding time.

These results relate only to the items tested.
This report shall not be reproduced except in full and with permission of the laboratory.

Report Approved By: _____ Report Date: 6/ 1/01

Paul E. Lane, Jr., Lab Director
Michael H. Dunn, M.S., Technical Director
Johnny A. Mitchell, Dir. Technical Serv.
Eric S. Smith, Assistant Technical Director
Gail A. Lage, Technical Serv.
Glenn L. Norton, Technical Serv.
Kelly S. Comstock, Technical Serv.
Pamela A. Langford, Technical Serv.

Laboratory Certification Number: AZ0473

nd of Sample Report.

TestAmerica
INCORPORATED

ANALYTICAL REPORT

KERAMIDA ENVIRONMENTAL 6028
KRISTEN BELLCREDI
330 N. COLLEGE AVENUE
INDIANAPOLIS, IN 46202

Lab Number: 01-A68604
Sample ID: KB-5 10.5-11.5
Sample Type: Soil
Site ID:

Project: 2961A
Project Name: FRUEHAUF-PHOENIX
Sampler: B.H.

Date Collected: 5/22/01
Time Collected: 11:40
Date Received: 5/23/01
Time Received: 9:00

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Date	Time	Analyst	Method	Batch
EXTRACTABLE ORGANICS										
Acenaphthene	ND	mg/kg	0.330	0.330	1	5/26/01	13:35	Jeanmarie	8270C	8348
Acenaphthylene	ND	mg/kg	0.330	0.330	1	5/26/01	13:35	Jeanmarie	8270C	8348
Anthracene	ND	mg/kg	0.330	0.330	1	5/26/01	13:35	Jeanmarie	8270C	8348
Benzo(a)anthracene	ND	mg/kg	0.330	0.330	1	5/26/01	13:35	Jeanmarie	8270C	8348
Benzo(a)pyrene	ND	mg/kg	0.330	0.330	1	5/26/01	13:35	Jeanmarie	8270C	8348
Benzo(b)fluoranthene	ND	mg/kg	0.330	0.330	1	5/26/01	13:35	Jeanmarie	8270C	8348
Benzo(g,h,i)perylene	ND	mg/kg	0.330	0.330	1	5/26/01	13:35	Jeanmarie	8270C	8348
Benzo(k)fluoranthene	ND	mg/kg	0.330	0.330	1	5/26/01	13:35	Jeanmarie	8270C	8348
4-Bromophenylphenylether	ND	mg/kg	0.330	0.330	1	5/26/01	13:35	Jeanmarie	8270C	8348
Butylbenzylphthalate	ND	mg/kg	0.330	0.330	1	5/26/01	13:35	Jeanmarie	8270C	8348
Carbazole	ND	mg/kg	0.330	0.330	1	5/26/01	13:35	Jeanmarie	8270C	8348
4-Chloro-3-methylphenol	ND	mg/kg	0.330	0.330	1	5/26/01	13:35	Jeanmarie	8270C	8348
4-Chloroaniline	ND	mg/kg	0.330	0.330	1	5/26/01	13:35	Jeanmarie	8270C	8348
bis(2-Chloroethoxy)methane	ND	mg/kg	0.330	0.330	1	5/26/01	13:35	Jeanmarie	8270C	8348
bis(2-Chloroethyl)ether	ND	mg/kg	0.330	0.330	1	5/26/01	13:35	Jeanmarie	8270C	8348
bis(2-Chloroisopropyl)ether	ND	mg/kg	0.330	0.330	1	5/26/01	13:35	Jeanmarie	8270C	8348
2-Chloronaphthalene	ND	mg/kg	0.330	0.330	1	5/26/01	13:35	Jeanmarie	8270C	8348
2-Chlorophenol	ND	mg/kg	0.330	0.330	1	5/26/01	13:35	Jeanmarie	8270C	8348
4-Chlorophenylphenylether	ND	mg/kg	0.330	0.330	1	5/26/01	13:35	Jeanmarie	8270C	8348
Chrysene	ND	mg/kg	0.330	0.330	1	5/26/01	13:35	Jeanmarie	8270C	8348
Dibenzofuran	ND	mg/kg	0.330	0.330	1	5/26/01	13:35	Jeanmarie	8270C	8348
Dibenz(a,h)anthracene	ND	mg/kg	0.330	0.330	1	5/26/01	13:35	Jeanmarie	8270C	8348
1,2-Dichlorobenzene	ND	mg/kg	0.330	0.330	1	5/26/01	13:35	Jeanmarie	8270C	8348
1,3-Dichlorobenzene	ND	mg/kg	0.330	0.330	1	5/26/01	13:35	Jeanmarie	8270C	8348
1,4-Dichlorobenzene	ND	mg/kg	0.330	0.330	1	5/26/01	13:35	Jeanmarie	8270C	8348

ple report continued . . .

TestAmerica
INCORPORATED

ANALYTICAL REPORT

Laboratory Number: 01-A68604
Sample ID: KB-5 10.5-11.5
Project: 2961A
Page 2

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Date	Time	Analyst	Method	Batch
3,3'-Dichlorobenzidine	ND	mg/kg	0.330	0.330	1	5/26/01	13:35	Jeanmarie	8270C	8348
2,4-Dichlorophenol	ND	mg/kg	0.330	0.330	1	5/26/01	13:35	Jeanmarie	8270C	8348
Diethylphthalate	ND	mg/kg	0.330	0.330	1	5/26/01	13:35	Jeanmarie	8270C	8348
2,4-Dimethylphenol	ND	mg/kg	0.330	0.330	1	5/26/01	13:35	Jeanmarie	8270C	8348
Dimethylphthalate	ND	mg/kg	0.330	0.330	1	5/26/01	13:35	Jeanmarie	8270C	8348
Di-n-butylphthalate	ND	mg/kg	0.330	0.330	1	5/26/01	13:35	Jeanmarie	8270C	8348
4,6-Dinitro-2-methylphenol	ND	mg/kg	0.330	0.330	1	5/26/01	13:35	Jeanmarie	8270C	8348
2,4-Dinitrophenol	ND	mg/kg	0.330	0.330	1	5/26/01	13:35	Jeanmarie	8270C	8348
2,4-dinitrotoluene	ND	mg/kg	0.330	0.330	1	5/26/01	13:35	Jeanmarie	8270C	8348
2,6-Dinitrotoluene	ND	mg/kg	0.330	0.330	1	5/26/01	13:35	Jeanmarie	8270C	8348
Di-n-octylphthalate	ND	mg/kg	0.330	0.330	1	5/26/01	13:35	Jeanmarie	8270C	8348
Fluoranthene	ND	mg/kg	0.330	0.330	1	5/26/01	13:35	Jeanmarie	8270C	8348
Fluorene	ND	mg/kg	0.330	0.330	1	5/26/01	13:35	Jeanmarie	8270C	8348
Hexachlorobenzene	ND	mg/kg	0.330	0.330	1	5/26/01	13:35	Jeanmarie	8270C	8348
Hexachlorobutadiene	ND	mg/kg	0.330	0.330	1	5/26/01	13:35	Jeanmarie	8270C	8348
Hexachlorocyclopentadiene	ND	mg/kg	0.330	0.330	1	5/26/01	13:35	Jeanmarie	8270C	8348
Hexachloroethane	ND	mg/kg	0.330	0.330	1	5/26/01	13:35	Jeanmarie	8270C	8348
Indeno(1,2,3-cd)pyrene	ND	mg/kg	0.330	0.330	1	5/26/01	13:35	Jeanmarie	8270C	8348
Isophorone	ND	mg/kg	0.330	0.330	1	5/26/01	13:35	Jeanmarie	8270C	8348
2-Methylnaphthalene	ND	mg/kg	0.330	0.330	1	5/26/01	13:35	Jeanmarie	8270C	8348
2-Methylphenol	ND	mg/kg	0.330	0.330	1	5/26/01	13:35	Jeanmarie	8270C	8348
m,p-Methylphenol	ND	mg/kg	0.330	0.330	1	5/26/01	13:35	Jeanmarie	8270C	8348
Naphthalene	ND	mg/kg	0.330	0.330	1	5/26/01	13:35	Jeanmarie	8270C	8348
2-Nitroaniline	ND	mg/kg	0.330	0.330	1	5/26/01	13:35	Jeanmarie	8270C	8348
3-Nitroaniline	ND	mg/kg	0.330	0.330	1	5/26/01	13:35	Jeanmarie	8270C	8348
4-Nitroaniline	ND	mg/kg	0.330	0.330	1	5/26/01	13:35	Jeanmarie	8270C	8348
Nitrobenzene	ND	mg/kg	0.330	0.330	1	5/26/01	13:35	Jeanmarie	8270C	8348
2-Nitrophenol	ND	mg/kg	0.330	0.330	1	5/26/01	13:35	Jeanmarie	8270C	8348
4-Nitrophenol	ND	mg/kg	0.330	0.330	1	5/26/01	13:35	Jeanmarie	8270C	8348
N-nitrosodi-n-propylamine	ND	mg/kg	0.330	0.330	1	5/26/01	13:35	Jeanmarie	8270C	8348
N-nitrosodiphenylamine	ND	mg/kg	0.330	0.330	1	5/26/01	13:35	Jeanmarie	8270C	8348
Pentachlorophenol	ND	mg/kg	0.330	0.330	1	5/26/01	13:35	Jeanmarie	8270C	8348
Phenanthrene	ND	mg/kg	0.330	0.330	1	5/26/01	13:35	Jeanmarie	8270C	8348
Phenol	ND	mg/kg	0.330	0.330	1	5/26/01	13:35	Jeanmarie	8270C	8348

ıple report continued . . .

TestAmerica
INCORPORATED

ANALYTICAL REPORT

Laboratory Number: 01-A68604
Sample ID: KB-5 10.5-11.5
Project: 2961A

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Date	Time	Analyst	Method	Batch
Pyrene	ND	mg/kg	0.330	0.330	1	5/26/01	13:35	Jeanmarie	8270C	8348
Bis(2-ethylhexyl)phthalate	ND	mg/kg	0.330	0.330	1	5/26/01	13:35	Jeanmarie	8270C	8348
1,2,4-Trichlorobenzene	ND	mg/kg	0.330	0.330	1	5/26/01	13:35	Jeanmarie	8270C	8348
2,4,5-Trichlorophenol	ND	mg/kg	0.330	0.330	1	5/26/01	13:35	Jeanmarie	8270C	8348
2,4,6-Trichlorophenol	ND	mg/kg	0.330	0.330	1	5/26/01	13:35	Jeanmarie	8270C	8348
VOLATILE ORGANICS										
Acetone	ND	mg/kg	0.0500	0.0500	1	5/30/01	4:01	S. Wani	8260B	7065
Benzene	ND	mg/kg	0.0020	0.0020	1	5/30/01	4:01	S. Wani	8260B	7065
Bromobenzene	ND	mg/kg	0.0020	0.0020	1	5/30/01	4:01	S. Wani	8260B	7065
Bromochloromethane	ND	mg/kg	0.0020	0.0020	1	5/30/01	4:01	S. Wani	8260B	7065
Bromoform	ND	mg/kg	0.0020	0.0020	1	5/30/01	4:01	S. Wani	8260B	7065
Bromomethane	ND	mg/kg	0.0020	0.0020	1	5/30/01	4:01	S. Wani	8260B	7065
2-Butanone	ND	mg/kg	0.0500	0.0500	1	5/30/01	4:01	S. Wani	8260B	7065
n-Butylbenzene	ND	mg/kg	0.0020	0.0020	1	5/30/01	4:01	S. Wani	8260B	7065
sec-Butylbenzene	ND	mg/kg	0.0020	0.0020	1	5/30/01	4:01	S. Wani	8260B	7065
t-Butylbenzene	ND	mg/kg	0.0020	0.0020	1	5/30/01	4:01	S. Wani	8260B	7065
Carbon disulfide	ND	mg/kg	0.0020	0.0020	1	5/30/01	4:01	S. Wani	8260B	7065
Carbon tetrachloride	ND	mg/kg	0.0020	0.0020	1	5/30/01	4:01	S. Wani	8260B	7065
Chlorobenzene	ND	mg/kg	0.0020	0.0020	1	5/30/01	4:01	S. Wani	8260B	7065
Chloroethane	ND	mg/kg	0.0020	0.0020	1	5/30/01	4:01	S. Wani	8260B	7065
Chloroform	ND	mg/kg	0.0020	0.0020	1	5/30/01	4:01	S. Wani	8260B	7065
Chloromethane	ND	mg/kg	0.0020	0.0020	1	5/30/01	4:01	S. Wani	8260B	7065
2-Chlorotoluene	ND	mg/kg	0.0020	0.0020	1	5/30/01	4:01	S. Wani	8260B	7065
4-Chlorotoluene	ND	mg/kg	0.0020	0.0020	1	5/30/01	4:01	S. Wani	8260B	7065
1,2-Dibromo-3-chloropropane	ND	mg/kg	0.0100	0.0100	1	5/30/01	4:01	S. Wani	8260B	7065
Dibromochloromethane	ND	mg/kg	0.0020	0.0020	1	5/30/01	4:01	S. Wani	8260B	7065
1,2-Dibromoethane	ND	mg/kg	0.0020	0.0020	1	5/30/01	4:01	S. Wani	8260B	7065
Dibromomethane	ND	mg/kg	0.0020	0.0020	1	5/30/01	4:01	S. Wani	8260B	7065
1,2-Dichlorobenzene	ND	mg/kg	0.0020	0.0020	1	5/30/01	4:01	S. Wani	8260B	7065
1,3-Dichlorobenzene	ND	mg/kg	0.0020	0.0020	1	5/30/01	4:01	S. Wani	8260B	7065
1,4-Dichlorobenzene	ND	mg/kg	0.0020	0.0020	1	5/30/01	4:01	S. Wani	8260B	7065
Dichlorodifluoromethane	ND	mg/kg	0.0020	0.0020	1	5/30/01	4:01	S. Wani	8260B	7065
1,1-Dichloroethane	ND	mg/kg	0.0020	0.0020	1	5/30/01	4:01	S. Wani	8260B	7065

ıple report continued . . .

TestAmerica
INCORPORATED

ANALYTICAL REPORT

Laboratory Number: 01-A68604
Sample ID: KB-5 10.5-11.5
Project: 2961A
Page 4

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Date	Time	Analyst	Method	Batch
1,2-Dichloroethane	ND	mg/kg	0.0020	0.0020	1	5/30/01	4:01	S. Wani	8260B	7065
1,1-Dichloroethene	ND	mg/kg	0.0020	0.0020	1	5/30/01	4:01	S. Wani	8260B	7065
cis-1,2-Dichloroethene	ND	mg/kg	0.0020	0.0020	1	5/30/01	4:01	S. Wani	8260B	7065
trans-1,2-Dichloroethene	ND	mg/kg	0.0020	0.0020	1	5/30/01	4:01	S. Wani	8260B	7065
1,2-Dichloropropane	ND	mg/kg	0.0020	0.0020	1	5/30/01	4:01	S. Wani	8260B	7065
1,3-Dichloropropane	ND	mg/kg	0.0020	0.0020	1	5/30/01	4:01	S. Wani	8260B	7065
2,2-Dichloropropane	ND	mg/kg	0.0020	0.0020	1	5/30/01	4:01	S. Wani	8260B	7065
1,1-Dichloropropene	ND	mg/kg	0.0020	0.0020	1	5/30/01	4:01	S. Wani	8260B	7065
cis-1,3-Dichloropropene	ND	mg/kg	0.0020	0.0020	1	5/30/01	4:01	S. Wani	8260B	7065
trans-1,3-Dichloropropene	ND	mg/kg	0.0020	0.0020	1	5/30/01	4:01	S. Wani	8260B	7065
Ethylbenzene	ND	mg/kg	0.0020	0.0020	1	5/30/01	4:01	S. Wani	8260B	7065
Hexachlorobutadiene	ND	mg/kg	0.0020	0.0020	1	5/30/01	4:01	S. Wani	8260B	7065
2-Hexanone	ND	mg/kg	0.0100	0.0100	1	5/30/01	4:01	S. Wani	8260B	7065
Isopropylbenzene	ND	mg/kg	0.0020	0.0020	1	5/30/01	4:01	S. Wani	8260B	7065
4-Isopropyltoluene	ND	mg/kg	0.0020	0.0020	1	5/30/01	4:01	S. Wani	8260B	7065
4-Methyl-2-pentanone	ND	mg/kg	0.0100	0.0100	1	5/30/01	4:01	S. Wani	8260B	7065
Methylene chloride	ND	mg/kg	0.0050	0.0050	1	5/30/01	4:01	S. Wani	8260B	7065
Naphthalene	ND	mg/kg	0.0050	0.0050	1	5/30/01	4:01	S. Wani	8260B	7065
n-Propylbenzene	ND	mg/kg	0.0020	0.0020	1	5/30/01	4:01	S. Wani	8260B	7065
Styrene	ND	mg/kg	0.0020	0.0020	1	5/30/01	4:01	S. Wani	8260B	7065
1,1,1,2-Tetrachloroethane	ND	mg/kg	0.0020	0.0020	1	5/30/01	4:01	S. Wani	8260B	7065
1,1,2,2-Tetrachloroethane	ND	mg/kg	0.0020	0.0020	1	5/30/01	4:01	S. Wani	8260B	7065
Tetrachloroethene	ND	mg/kg	0.0020	0.0020	1	5/30/01	4:01	S. Wani	8260B	7065
Toluene	ND	mg/kg	0.0020	0.0020	1	5/30/01	4:01	S. Wani	8260B	7065
1,2,3-Trichlorobenzene	ND	mg/kg	0.0020	0.0020	1	5/30/01	4:01	S. Wani	8260B	7065
1,2,4-Trichlorobenzene	ND	mg/kg	0.0020	0.0020	1	5/30/01	4:01	S. Wani	8260B	7065
1,1,1-Trichloroethane	ND	mg/kg	0.0020	0.0020	1	5/30/01	4:01	S. Wani	8260B	7065
1,1,2-Trichloroethane	ND	mg/kg	0.0020	0.0020	1	5/30/01	4:01	S. Wani	8260B	7065
Trichloroethene	ND	mg/kg	0.0020	0.0020	1	5/30/01	4:01	S. Wani	8260B	7065
1,2,3-Trichloropropane	ND	mg/kg	0.0020	0.0020	1	5/30/01	4:01	S. Wani	8260B	7065
1,2,4-Trimethylbenzene	ND	mg/kg	0.0020	0.0020	1	5/30/01	4:01	S. Wani	8260B	7065
1,3,5-Trimethylbenzene	ND	mg/kg	0.0020	0.0020	1	5/30/01	4:01	S. Wani	8260B	7065
Vinyl chloride	ND	mg/kg	0.0020	0.0020	1	5/30/01	4:01	S. Wani	8260B	7065
Xylenes, Total	ND	mg/kg	0.0020	0.0020	1	5/30/01	4:01	S. Wani	8260B	7065

ample report continued . . .

TestAmerica
INCORPORATED

ANALYTICAL REPORT

Laboratory Number: 01-A68604
Sample ID: KB-5 10.5-11.5
Project: 2961A

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Date	Time	Analyst	Method	Batch
Bromodichloromethane	ND	mg/kg	0.0020	0.0020	1	5/30/01	4:01	S. Wani	8260B	7065
Trichlorofluoromethane	ND	mg/kg	0.0020	0.0020	1	5/30/01	4:01	S. Wani	8260B	7065
METALS										
Arsenic	8.09	mg/kg	0.963	0.963	1	5/29/01	19:35	G.McCord	6010B	9323
Barium	74.4	mg/kg	0.963	0.963	1	5/29/01	19:35	G.McCord	6010B	9323
Cadmium	ND	mg/kg	0.963	0.963	1	5/29/01	19:35	G.McCord	6010B	9323
Chromium	30.4	mg/kg	0.963	0.963	1	5/29/01	19:35	G.McCord	6010B	9323
Lead	3.47	mg/kg	0.963	0.963	1	5/29/01	19:35	G.McCord	6010B	9323
Mercury	ND	mg/kg	0.101	0.100	1	5/25/01	13:14	C. Terry	7471	8272
Selenium	ND	mg/kg	0.963	0.963	1	5/29/01	19:35	G.McCord	6010B	9323
Silver	ND	mg/kg	0.963	0.963	1	5/29/01	19:35	G.McCord	6010B	9323
pH	9.10	pH units			1	5/25/01	11:41	K.Bundy	9045	7168

ND - Not detected at the report limit.

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Time	Analyst	Method
BNA's	30.0 gm	1.0 ml	5/23/01		J. Budden	3550

Surrogate	% Recovery	Target Range
surr-1,2-Dichloroethane, d4	97.	50. - 140.
surr-Toluene d8	99.	75. - 141.
surr-4-Bromofluorobenzene	100.	69. - 131.
surr-Dibromofluoromethane	98.	76. - 136.
BNA Surr-Nitrobenzene-d5	58.	26. - 110.

mple report continued . . .

TestAmerica
INCORPORATED

ANALYTICAL REPORT

Laboratory Number: 01-A68604
Sample ID: KB-5 10.5-11.5
Project: 2961A
Page 6

Surrogate	% Recovery	Target Range
BNA Surr-2-Fluorobiphenyl	61.	28. - 112.
BNA Surr-Terphenyl d14	77.	40. - 124.
BNA Surr-Phenol d5	67.	29. - 121.
BNA Surr-2-Fluorophenol	60.	20. - 113.
BNA Surr-2,4,6-Tribromophenol	86.	29. - 144.

- Recovery outside Laboratory historical limits.

All results reported on a wet weight basis.

Sample for pH analysis received outside method prescribed holding time.

These results relate only to the items tested.
This report shall not be reproduced except in full and with permission of the laboratory.

Report Approved By: Michael Dunn Report Date: 6/ 1/01

Paul E. Lane, Jr., Lab Director
Michael H. Dunn, M.S., Technical Director
Johnny A. Mitchell, Dir. Technical Serv.
Eric S. Smith, Assistant Technical Director
Gail A. Lage, Technical Serv.
Glenn L. Norton, Technical Serv.
Kelly S. Comstock, Technical Serv.
Pamela A. Langford, Technical Serv.

Laboratory Certification Number: AZ0473

nd of Sample Report.

TestAmerica
INCORPORATED

ANALYTICAL REPORT

KERAMIDA ENVIRONMENTAL 6028
KRISTEN BELLCREDI
330 N. COLLEGE AVENUE
INDIANAPOLIS, IN 46202

Lab Number: 01-A70084
Sample ID: KB-6 1.5-3
Sample Type: Soil
Site ID:

Project: 2961A
Project Name: FRUEHAUF-PHOENIX
Sampler: B.H.

Date Collected: 5/24/01
Time Collected: 7:20
Date Received: 5/25/01
Time Received: 9:00

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Date	Time	Analyst	Method	Batch
EXTRACTABLE ORGANICS										
Acenaphthene	ND	mg/kg	1.65	0.330	5	5/30/01	22:30	Jeanmarie	8270C	1491
Acenaphthylene	ND	mg/kg	1.65	0.330	5	5/30/01	22:30	Jeanmarie	8270C	1491
Anthracene	ND	mg/kg	1.65	0.330	5	5/30/01	22:30	Jeanmarie	8270C	1491
Benzo(a)anthracene	ND	mg/kg	1.65	0.330	5	5/30/01	22:30	Jeanmarie	8270C	1491
Benzo(a)pyrene	ND	mg/kg	1.65	0.330	5	5/30/01	22:30	Jeanmarie	8270C	1491
Benzo(b)fluoranthene	ND	mg/kg	1.65	0.330	5	5/30/01	22:30	Jeanmarie	8270C	1491
Benzo(g,h,i)perylene	ND	mg/kg	1.65	0.330	5	5/30/01	22:30	Jeanmarie	8270C	1491
Benzo(k)fluoranthene	ND	mg/kg	1.65	0.330	5	5/30/01	22:30	Jeanmarie	8270C	1491
4-Bromophenylphenylether	ND	mg/kg	1.65	0.330	5	5/30/01	22:30	Jeanmarie	8270C	1491
Butylbenzylphthalate	ND	mg/kg	1.65	0.330	5	5/30/01	22:30	Jeanmarie	8270C	1491
Carbazole	ND	mg/kg	1.65	0.330	5	5/30/01	22:30	Jeanmarie	8270C	1491
4-Chloro-3-methylphenol	ND	mg/kg	1.65	0.330	5	5/30/01	22:30	Jeanmarie	8270C	1491
4-Chloroaniline	ND	mg/kg	1.65	0.330	5	5/30/01	22:30	Jeanmarie	8270C	1491
bis(2-Chloroethoxy)methane	ND	mg/kg	1.65	0.333	5	5/30/01	22:30	Jeanmarie	8270C	1491
bis(2-Chloroethyl)ether	ND	mg/kg	1.65	0.333	5	5/30/01	22:30	Jeanmarie	8270C	1491
bis(2-Chloroisopropyl)ether	ND	mg/kg	1.65	0.333	5	5/30/01	22:30	Jeanmarie	8270C	1491
2-Chloronaphthalene	ND	mg/kg	1.65	0.333	5	5/30/01	22:30	Jeanmarie	8270C	1491
2-Chlorophenol	ND	mg/kg	1.65	0.333	5	5/30/01	22:30	Jeanmarie	8270C	1491
4-Chlorophenylphenylether	ND	mg/kg	1.65	0.333	5	5/30/01	22:30	Jeanmarie	8270C	1491
Chrysene	ND	mg/kg	1.65	0.333	5	5/30/01	22:30	Jeanmarie	8270C	1491
Dibenzofuran	ND	mg/kg	1.65	0.333	5	5/30/01	22:30	Jeanmarie	8270C	1491
Dibenz(a,h)anthracene	ND	mg/kg	1.65	0.333	5	5/30/01	22:30	Jeanmarie	8270C	1491
1,2-Dichlorobenzene	ND	mg/kg	1.65	0.333	5	5/30/01	22:30	Jeanmarie	8270C	1491
1,3-Dichlorobenzene	ND	mg/kg	1.65	0.333	5	5/30/01	22:30	Jeanmarie	8270C	1491
1,4-Dichlorobenzene	ND	mg/kg	1.65	0.333	5	5/30/01	22:30	Jeanmarie	8270C	1491

ıple report continued . . .

TestAmerica
INCORPORATED

ANALYTICAL REPORT

Laboratory Number: 01-A70084
Sample ID: KB-6 1.5-3
Project: 2961A
Page 2

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Date	Time	Analyst	Method	Batch
3,3'-Dichlorobenzidine	ND	mg/kg	1.65	0.330	5	5/30/01	22:30	Jeanmarie	8270C	1491
2,4-Dichlorophenol	ND	mg/kg	1.65	0.333	5	5/30/01	22:30	Jeanmarie	8270C	1491
Diethylphthalate	ND	mg/kg	1.65	0.333	5	5/30/01	22:30	Jeanmarie	8270C	1491
2,4-Dimethylphenol	ND	mg/kg	1.65	0.333	5	5/30/01	22:30	Jeanmarie	8270C	1491
Dimethylphthalate	ND	mg/kg	1.65	0.333	5	5/30/01	22:30	Jeanmarie	8270C	1491
Di-n-butylphthalate	ND	mg/kg	1.65	0.333	5	5/30/01	22:30	Jeanmarie	8270C	1491
4,6-Dinitro-2-methylphenol	ND	mg/kg	1.65	0.330	5	5/30/01	22:30	Jeanmarie	8270C	1491
2,4-Dinitrophenol	ND	mg/kg	1.65	0.330	5	5/30/01	22:30	Jeanmarie	8270C	1491
2,4-dinitrotoluene	ND	mg/kg	1.65	0.333	5	5/30/01	22:30	Jeanmarie	8270C	1491
2,6-Dinitrotoluene	ND	mg/kg	1.65	0.333	5	5/30/01	22:30	Jeanmarie	8270C	1491
Di-n-octylphthalate	ND	mg/kg	1.65	0.333	5	5/30/01	22:30	Jeanmarie	8270C	1491
Fluoranthene	ND	mg/kg	1.65	0.333	5	5/30/01	22:30	Jeanmarie	8270C	1491
Fluorene	ND	mg/kg	1.65	0.333	5	5/30/01	22:30	Jeanmarie	8270C	1491
Hexachlorobenzene	ND	mg/kg	1.65	0.333	5	5/30/01	22:30	Jeanmarie	8270C	1491
Hexachlorobutadiene	ND	mg/kg	1.65	0.333	5	5/30/01	22:30	Jeanmarie	8270C	1491
Hexachlorocyclopentadiene	ND	mg/kg	1.65	0.333	5	5/30/01	22:30	Jeanmarie	8270C	1491
Hexachloroethane	ND	mg/kg	1.65	0.333	5	5/30/01	22:30	Jeanmarie	8270C	1491
Indeno(1,2,3-cd)pyrene	ND	mg/kg	1.65	0.333	5	5/30/01	22:30	Jeanmarie	8270C	1491
Isophorone	ND	mg/kg	1.65	0.333	5	5/30/01	22:30	Jeanmarie	8270C	1491
2-Methylnaphthalene	ND	mg/kg	1.65	0.333	5	5/30/01	22:30	Jeanmarie	8270C	1491
2-Methylphenol	ND	mg/kg	1.65	0.333	5	5/30/01	22:30	Jeanmarie	8270C	1491
m,p-Methylphenol	ND	mg/kg	1.65	0.333	5	5/30/01	22:30	Jeanmarie	8270C	1491
Naphthalene	ND	mg/kg	1.65	0.333	5	5/30/01	22:30	Jeanmarie	8270C	1491
2-Nitroaniline	ND	mg/kg	1.65	0.330	5	5/30/01	22:30	Jeanmarie	8270C	1491
3-Nitroaniline	ND	mg/kg	1.65	0.330	5	5/30/01	22:30	Jeanmarie	8270C	1491
4-Nitroaniline	ND	mg/kg	1.65	0.330	5	5/30/01	22:30	Jeanmarie	8270C	1491
Nitrobenzene	ND	mg/kg	1.65	0.333	5	5/30/01	22:30	Jeanmarie	8270C	1491
2-Nitrophenol	ND	mg/kg	1.65	0.333	5	5/30/01	22:30	Jeanmarie	8270C	1491
4-Nitrophenol	ND	mg/kg	1.65	0.330	5	5/30/01	22:30	Jeanmarie	8270C	1491
N-nitrosodi-n-propylamine	ND	mg/kg	1.65	0.333	5	5/30/01	22:30	Jeanmarie	8270C	1491
N-nitrosodiphenylamine	ND	mg/kg	1.65	0.333	5	5/30/01	22:30	Jeanmarie	8270C	1491
Pentachlorophenol	ND	mg/kg	1.65	0.330	5	5/30/01	22:30	Jeanmarie	8270C	1491
Phenanthrene	ND	mg/kg	1.65	0.333	5	5/30/01	22:30	Jeanmarie	8270C	1491
Phenol	ND	mg/kg	1.65	0.333	5	5/30/01	22:30	Jeanmarie	8270C	1491

mple report continued . . .

TestAmerica
INCORPORATED

ANALYTICAL REPORT

Laboratory Number: 01-A70084
Sample ID: KB-6 1.5-3
Project: 2961A
Page 3

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Date	Time	Analyst	Method	Batch
Pyrene	ND	mg/kg	1.65	0.333	5	5/30/01	22:30	Jeanmarie	8270C	1491
Bis(2-ethylhexyl)phthalate	ND	mg/kg	1.65	0.333	5	5/30/01	22:30	Jeanmarie	8270C	1491
1,2,4-Trichlorobenzene	ND	mg/kg	1.65	0.333	5	5/30/01	22:30	Jeanmarie	8270C	1491
2,4,5-Trichlorophenol	ND	mg/kg	1.65	0.330	5	5/30/01	22:30	Jeanmarie	8270C	1491
2,4,6-Trichlorophenol	ND	mg/kg	1.65	0.333	5	5/30/01	22:30	Jeanmarie	8270C	1491
VOLATILE ORGANICS										
Acetone	ND	mg/kg	0.0500	0.0500	1	6/ 1/01	16:07	C. Wani	8260B	4109
Benzene	ND	mg/kg	0.0020	0.0020	1	6/ 1/01	16:07	C. Wani	8260B	4109
Bromobenzene	ND	mg/kg	0.0020	0.0020	1	6/ 1/01	16:07	C. Wani	8260B	4109
Bromochloromethane	ND	mg/kg	0.0020	0.0020	1	6/ 1/01	16:07	C. Wani	8260B	4109
Bromoform	ND	mg/kg	0.0020	0.0020	1	6/ 1/01	16:07	C. Wani	8260B	4109
Bromomethane	ND	mg/kg	0.0020	0.0020	1	6/ 1/01	16:07	C. Wani	8260B	4109
2-Butanone	ND	mg/kg	0.0500	0.0500	1	6/ 1/01	16:07	C. Wani	8260B	4109
n-Butylbenzene	ND	mg/kg	0.0020	0.0020	1	6/ 1/01	16:07	C. Wani	8260B	4109
sec-Butylbenzene	ND	mg/kg	0.0020	0.0020	1	6/ 1/01	16:07	C. Wani	8260B	4109
t-Butylbenzene	ND	mg/kg	0.0020	0.0020	1	6/ 1/01	16:07	C. Wani	8260B	4109
Carbon disulfide	ND	mg/kg	0.0020	0.0020	1	6/ 1/01	16:07	C. Wani	8260B	4109
Carbon tetrachloride	ND	mg/kg	0.0020	0.0020	1	6/ 1/01	16:07	C. Wani	8260B	4109
Chlorobenzene	ND	mg/kg	0.0020	0.0020	1	6/ 1/01	16:07	C. Wani	8260B	4109
Chloroethane	ND	mg/kg	0.0020	0.0020	1	6/ 1/01	16:07	C. Wani	8260B	4109
Chloroform	ND	mg/kg	0.0020	0.0020	1	6/ 1/01	16:07	C. Wani	8260B	4109
Chloromethane	ND	mg/kg	0.0020	0.0020	1	6/ 1/01	16:07	C. Wani	8260B	4109
2-Chlorotoluene	ND	mg/kg	0.0020	0.0020	1	6/ 1/01	16:07	C. Wani	8260B	4109
4-Chlorotoluene	ND	mg/kg	0.0020	0.0020	1	6/ 1/01	16:07	C. Wani	8260B	4109
1,2-Dibromo-3-chloropropane	ND	mg/kg	0.0100	0.0100	1	6/ 1/01	16:07	C. Wani	8260B	4109
Dibromochloromethane	ND	mg/kg	0.0020	0.0020	1	6/ 1/01	16:07	C. Wani	8260B	4109
1,2-Dibromoethane	ND	mg/kg	0.0020	0.0020	1	6/ 1/01	16:07	C. Wani	8260B	4109
Dibromomethane	ND	mg/kg	0.0020	0.0020	1	6/ 1/01	16:07	C. Wani	8260B	4109
1,2-Dichlorobenzene	ND	mg/kg	0.0020	0.0020	1	6/ 1/01	16:07	C. Wani	8260B	4109
1,3-Dichlorobenzene	ND	mg/kg	0.0020	0.0020	1	6/ 1/01	16:07	C. Wani	8260B	4109
1,4-Dichlorobenzene	ND	mg/kg	0.0020	0.0020	1	6/ 1/01	16:07	C. Wani	8260B	4109
Dichlorodifluoromethane	ND	mg/kg	0.0020	0.0020	1	6/ 1/01	16:07	C. Wani	8260B	4109
1,1-Dichloroethane	ND	mg/kg	0.0020	0.0020	1	6/ 1/01	16:07	C. Wani	8260B	4109

mple report continued . . .

TestAmerica
INCORPORATED

ANALYTICAL REPORT

Laboratory Number: 01-A70084
Sample ID: KB-6 1.5-3
Project: 2961A

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Date	Time	Analyst	Method	Batch
1,2-Dichloroethane	ND	mg/kg	0.0020	0.0020	1	6/ 1/01	16:07	C. Wani	8260B	4109
1,1-Dichloroethene	ND	mg/kg	0.0020	0.0020	1	6/ 1/01	16:07	C. Wani	8260B	4109
cis-1,2-Dichloroethene	ND	mg/kg	0.0020	0.0020	1	6/ 1/01	16:07	C. Wani	8260B	4109
trans-1,2-Dichloroethene	ND	mg/kg	0.0020	0.0020	1	6/ 1/01	16:07	C. Wani	8260B	4109
1,2-Dichloropropane	ND	mg/kg	0.0020	0.0020	1	6/ 1/01	16:07	C. Wani	8260B	4109
1,3-Dichloropropane	ND	mg/kg	0.0020	0.0020	1	6/ 1/01	16:07	C. Wani	8260B	4109
2,2-Dichloropropane	ND	mg/kg	0.0020	0.0020	1	6/ 1/01	16:07	C. Wani	8260B	4109
1,1-Dichloropropene	ND	mg/kg	0.0020	0.0020	1	6/ 1/01	16:07	C. Wani	8260B	4109
cis-1,3-Dichloropropene	ND	mg/kg	0.0020	0.0020	1	6/ 1/01	16:07	C. Wani	8260B	4109
trans-1,3-Dichloropropene	ND	mg/kg	0.0020	0.0020	1	6/ 1/01	16:07	C. Wani	8260B	4109
Ethylbenzene	ND	mg/kg	0.0020	0.0020	1	6/ 1/01	16:07	C. Wani	8260B	4109
Hexachlorobutadiene	ND	mg/kg	0.0020	0.0020	1	6/ 1/01	16:07	C. Wani	8260B	4109
2-Hexanone	ND	mg/kg	0.0100	0.0100	1	6/ 1/01	16:07	C. Wani	8260B	4109
Isopropylbenzene	ND	mg/kg	0.0020	0.0020	1	6/ 1/01	16:07	C. Wani	8260B	4109
4-Isopropyltoluene	ND	mg/kg	0.0020	0.0020	1	6/ 1/01	16:07	C. Wani	8260B	4109
4-Methyl-2-pentanone	ND	mg/kg	0.0100	0.0100	1	6/ 1/01	16:07	C. Wani	8260B	4109
Methylene chloride	ND	mg/kg	0.0050	0.0050	1	6/ 1/01	16:07	C. Wani	8260B	4109
Naphthalene	ND	mg/kg	0.0050	0.0050	1	6/ 1/01	16:07	C. Wani	8260B	4109
n-Propylbenzene	ND	mg/kg	0.0020	0.0020	1	6/ 1/01	16:07	C. Wani	8260B	4109
Styrene	ND	mg/kg	0.0020	0.0020	1	6/ 1/01	16:07	C. Wani	8260B	4109
1,1,1,2-Tetrachloroethane	ND	mg/kg	0.0020	0.0020	1	6/ 1/01	16:07	C. Wani	8260B	4109
1,1,2,2-Tetrachloroethane	ND	mg/kg	0.0020	0.0020	1	6/ 1/01	16:07	C. Wani	8260B	4109
Tetrachloroethene	ND	mg/kg	0.0020	0.0020	1	6/ 1/01	16:07	C. Wani	8260B	4109
Toluene	ND	mg/kg	0.0020	0.0020	1	6/ 1/01	16:07	C. Wani	8260B	4109
1,2,3-Trichlorobenzene	ND	mg/kg	0.0020	0.0020	1	6/ 1/01	16:07	C. Wani	8260B	4109
1,2,4-Trichlorobenzene	ND	mg/kg	0.0020	0.0020	1	6/ 1/01	16:07	C. Wani	8260B	4109
1,1,1-Trichloroethane	ND	mg/kg	0.0020	0.0020	1	6/ 1/01	16:07	C. Wani	8260B	4109
1,1,2-Trichloroethane	ND	mg/kg	0.0020	0.0020	1	6/ 1/01	16:07	C. Wani	8260B	4109
Trichloroethene	ND	mg/kg	0.0020	0.0020	1	6/ 1/01	16:07	C. Wani	8260B	4109
1,2,3-Trichloropropane	ND	mg/kg	0.0020	0.0020	1	6/ 1/01	16:07	C. Wani	8260B	4109
1,2,4-Trimethylbenzene	ND	mg/kg	0.0020	0.0020	1	6/ 1/01	16:07	C. Wani	8260B	4109
1,3,5-Trimethylbenzene	ND	mg/kg	0.0020	0.0020	1	6/ 1/01	16:07	C. Wani	8260B	4109
Vinyl chloride	ND	mg/kg	0.0020	0.0020	1	6/ 1/01	16:07	C. Wani	8260B	4109
Xylenes, Total	ND	mg/kg	0.0020	0.0020	1	6/ 1/01	16:07	C. Wani	8260B	4109

mple report continued . . .

TestAmerica
INCORPORATED

ANALYTICAL REPORT

Laboratory Number: 01-A70084
Sample ID: KB-6 1.5-3
Project: 2961A
Page 5

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Date	Time	Analyst	Method	Batch
Bromodichloromethane	ND	mg/kg	0.0020	0.0020	1	6/ 1/01	16:07	C. Wani	8260B	4109
Trichlorofluoromethane	ND	mg/kg	0.0020	0.0020	1	6/ 1/01	16:07	C. Wani	8260B	4109
METALS										
Arsenic	3.48	mg/kg	0.965	0.965	1	5/31/01	8:38	Rob Hunt	6010B	9326
Barium	97.7	mg/kg	0.965	0.965	1	5/31/01	8:38	Rob Hunt	6010B	9326
Cadmium	ND	mg/kg	0.965	0.965	1	5/31/01	8:38	Rob Hunt	6010B	9326
Chromium	14.3	mg/kg	0.965	0.965	1	5/31/01	8:38	Rob Hunt	6010B	9326
Lead	17.0	mg/kg	0.965	0.965	1	5/31/01	8:38	Rob Hunt	6010B	9326
Mercury	ND	mg/kg	0.099	0.099	1	5/29/01	9:49	C. Terry	7471	9321
Selenium	ND	mg/kg	0.965	0.965	1	5/31/01	8:38	Rob Hunt	6010B	9326
Silver	ND	mg/kg	0.965	0.965	1	5/31/01	8:38	Rob Hunt	6010B	9326
pH	9.00	pH units			1	5/29/01	17:37	J Campbell	9045	8783

ND - Not detected at the report limit.

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Time	Analyst	Method
BNA's	30.0 gm	1.0 ml	5/29/01		J. Rudden	3550

Surrogate	% Recovery	Target Range
surr-1,2-Dichloroethane, d4	87.	50. - 140.
surr-Toluene d8	87.	75. - 141.
surr-4-Bromofluorobenzene	98.	69. - 131.
surr-Dibromofluoromethane	87.	76. - 136.
BNA Surr-Nitrobenzene-d5	84.	26. - 110.

mple report continued . . .

TestAmerica
INCORPORATED

ANALYTICAL REPORT

Laboratory Number: 01-A70084
Sample ID: KB-6 1.5-3
Project: 2961A
Page 6

Surrogate	% Recovery	Target Range
BNA Surr-2-Fluorobiphenyl	98.	28. - 112.
BNA Surr-Terphenyl d14	103.	40. - 124.
BNA Surr-Phenol d5	97.	29. - 121.
BNA Surr-2-Fluorophenol	75.	20. - 113.
BNA Surr-2,4,6-Tribromophenol	113.	29. - 144.

- Recovery outside Laboratory historical limits.

All results reported on a wet weight basis.

Sample for pH analysis received outside method prescribed holding time.

These results relate only to the items tested.
This report shall not be reproduced except in full and with permission of the laboratory.

Report Approved By: _____ Report Date: 6/ 4/01

Paul E. Lane, Jr., Lab Director
Michael H. Dunn, M.S., Technical Director
Johnny A. Mitchell, Dir. Technical Serv.
Eric S. Smith, Assistant Technical Director
Gail A. Lage, Technical Serv.
Glenn L. Norton, Technical Serv.
Kelly S. Comstock, Technical Serv.
Pamela A. Langford, Technical Serv.

Laboratory Certification Number: AZ0473

End of Sample Report.

TestAmerica
INCORPORATED

ANALYTICAL REPORT

KERAMIDA ENVIRONMENTAL 6028
KRISTEN BELLCREDI
330 N. COLLEGE AVENUE
INDIANAPOLIS, IN 46202

Lab Number: 01-A70085
Sample ID: KB-6 9-10
Sample Type: Soil
Site ID:

Date Collected: 5/24/01
Time Collected: 8:15
Date Received: 5/25/01
Time Received: 9:00

Project: 2961A
Project Name: FRUEHAUF-PHOENIX
Sampler: B.H.

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Date	Time	Analyst	Method	Batch
EXTRACTABLE ORGANICS										
Acenaphthene	ND	mg/kg	1.65	0.330	5	5/30/01	23:07	Jeanmarie	8270C	1491
Acenaphthylene	ND	mg/kg	1.65	0.330	5	5/30/01	23:07	Jeanmarie	8270C	1491
Anthracene	ND	mg/kg	1.65	0.330	5	5/30/01	23:07	Jeanmarie	8270C	1491
Benzo(a)anthracene	ND	mg/kg	1.65	0.330	5	5/30/01	23:07	Jeanmarie	8270C	1491
Benzo(a)pyrene	ND	mg/kg	1.65	0.330	5	5/30/01	23:07	Jeanmarie	8270C	1491
Benzo(b)fluoranthene	ND	mg/kg	1.65	0.330	5	5/30/01	23:07	Jeanmarie	8270C	1491
Benzo(g,h,i)perylene	ND	mg/kg	1.65	0.330	5	5/30/01	23:07	Jeanmarie	8270C	1491
Benzo(k)fluoranthene	ND	mg/kg	1.65	0.330	5	5/30/01	23:07	Jeanmarie	8270C	1491
4-Bromophenylphenylether	ND	mg/kg	1.65	0.330	5	5/30/01	23:07	Jeanmarie	8270C	1491
Butylbenzylphthalate	ND	mg/kg	1.65	0.330	5	5/30/01	23:07	Jeanmarie	8270C	1491
Carbazole	ND	mg/kg	1.65	0.330	5	5/30/01	23:07	Jeanmarie	8270C	1491
4-Chloro-3-methylphenol	ND	mg/kg	1.65	0.330	5	5/30/01	23:07	Jeanmarie	8270C	1491
4-Chloroaniline	ND	mg/kg	1.65	0.330	5	5/30/01	23:07	Jeanmarie	8270C	1491
bis(2-Chloroethoxy)methane	ND	mg/kg	1.65	0.333	5	5/30/01	23:07	Jeanmarie	8270C	1491
bis(2-Chloroethyl)ether	ND	mg/kg	1.65	0.333	5	5/30/01	23:07	Jeanmarie	8270C	1491
bis(2-Chloroisopropyl)ether	ND	mg/kg	1.65	0.333	5	5/30/01	23:07	Jeanmarie	8270C	1491
2-Chloronaphthalene	ND	mg/kg	1.65	0.333	5	5/30/01	23:07	Jeanmarie	8270C	1491
2-Chlorophenol	ND	mg/kg	1.65	0.333	5	5/30/01	23:07	Jeanmarie	8270C	1491
4-Chlorophenylphenylether	ND	mg/kg	1.65	0.333	5	5/30/01	23:07	Jeanmarie	8270C	1491
Chrysene	ND	mg/kg	1.65	0.333	5	5/30/01	23:07	Jeanmarie	8270C	1491
Dibenzofuran	ND	mg/kg	1.65	0.333	5	5/30/01	23:07	Jeanmarie	8270C	1491
Dibenz(a,h)anthracene	ND	mg/kg	1.65	0.333	5	5/30/01	23:07	Jeanmarie	8270C	1491
1,2-Dichlorobenzene	ND	mg/kg	1.65	0.333	5	5/30/01	23:07	Jeanmarie	8270C	1491
1,3-Dichlorobenzene	ND	mg/kg	1.65	0.333	5	5/30/01	23:07	Jeanmarie	8270C	1491
1,4-Dichlorobenzene	ND	mg/kg	1.65	0.333	5	5/30/01	23:07	Jeanmarie	8270C	1491

ample report continued . . .

TestAmerica
INCORPORATED

ANALYTICAL REPORT

Laboratory Number: 01-A70085
Sample ID: KB-6 9-10
Project: 2961A
Page 2

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Date	Time	Analyst	Method	Batch
3,3'-Dichlorobenzidine	ND	mg/kg	1.65	0.330	5	5/30/01	23:07	Jeanmarie	8270C	1491
2,4-Dichlorophenol	ND	mg/kg	1.65	0.333	5	5/30/01	23:07	Jeanmarie	8270C	1491
Diethylphthalate	ND	mg/kg	1.65	0.333	5	5/30/01	23:07	Jeanmarie	8270C	1491
2,4-Dimethylphenol	ND	mg/kg	1.65	0.333	5	5/30/01	23:07	Jeanmarie	8270C	1491
Dimethylphthalate	ND	mg/kg	1.65	0.333	5	5/30/01	23:07	Jeanmarie	8270C	1491
Di-n-butylphthalate	ND	mg/kg	1.65	0.333	5	5/30/01	23:07	Jeanmarie	8270C	1491
4,6-Dinitro-2-methylphenol	ND	mg/kg	1.65	0.330	5	5/30/01	23:07	Jeanmarie	8270C	1491
2,4-Dinitrophenol	ND	mg/kg	1.65	0.330	5	5/30/01	23:07	Jeanmarie	8270C	1491
2,4-dinitrotoluene	ND	mg/kg	1.65	0.333	5	5/30/01	23:07	Jeanmarie	8270C	1491
2,6-Dinitrotoluene	ND	mg/kg	1.65	0.333	5	5/30/01	23:07	Jeanmarie	8270C	1491
Di-n-octylphthalate	ND	mg/kg	1.65	0.333	5	5/30/01	23:07	Jeanmarie	8270C	1491
Fluoranthene	ND	mg/kg	1.65	0.333	5	5/30/01	23:07	Jeanmarie	8270C	1491
Fluorene	ND	mg/kg	1.65	0.333	5	5/30/01	23:07	Jeanmarie	8270C	1491
Hexachlorobenzene	ND	mg/kg	1.65	0.333	5	5/30/01	23:07	Jeanmarie	8270C	1491
Hexachlorobutadiene	ND	mg/kg	1.65	0.333	5	5/30/01	23:07	Jeanmarie	8270C	1491
Hexachlorocyclopentadiene	ND	mg/kg	1.65	0.333	5	5/30/01	23:07	Jeanmarie	8270C	1491
Hexachloroethane	ND	mg/kg	1.65	0.333	5	5/30/01	23:07	Jeanmarie	8270C	1491
Indeno(1,2,3-cd)pyrene	ND	mg/kg	1.65	0.333	5	5/30/01	23:07	Jeanmarie	8270C	1491
Isophorone	ND	mg/kg	1.65	0.333	5	5/30/01	23:07	Jeanmarie	8270C	1491
2-Methylnaphthalene	ND	mg/kg	1.65	0.333	5	5/30/01	23:07	Jeanmarie	8270C	1491
2-Methylphenol	ND	mg/kg	1.65	0.333	5	5/30/01	23:07	Jeanmarie	8270C	1491
m,p-Methylphenol	ND	mg/kg	1.65	0.333	5	5/30/01	23:07	Jeanmarie	8270C	1491
Naphthalene	ND	mg/kg	1.65	0.333	5	5/30/01	23:07	Jeanmarie	8270C	1491
2-Nitroaniline	ND	mg/kg	1.65	0.330	5	5/30/01	23:07	Jeanmarie	8270C	1491
3-Nitroaniline	ND	mg/kg	1.65	0.330	5	5/30/01	23:07	Jeanmarie	8270C	1491
4-Nitroaniline	ND	mg/kg	1.65	0.330	5	5/30/01	23:07	Jeanmarie	8270C	1491
Nitrobenzene	ND	mg/kg	1.65	0.333	5	5/30/01	23:07	Jeanmarie	8270C	1491
2-Nitrophenol	ND	mg/kg	1.65	0.333	5	5/30/01	23:07	Jeanmarie	8270C	1491
4-Nitrophenol	ND	mg/kg	1.65	0.330	5	5/30/01	23:07	Jeanmarie	8270C	1491
N-nitrosodi-n-propylamine	ND	mg/kg	1.65	0.333	5	5/30/01	23:07	Jeanmarie	8270C	1491
N-nitrosodiphenylamine	ND	mg/kg	1.65	0.333	5	5/30/01	23:07	Jeanmarie	8270C	1491
Pentachlorophenol	ND	mg/kg	1.65	0.330	5	5/30/01	23:07	Jeanmarie	8270C	1491
Phenanthrene	ND	mg/kg	1.65	0.333	5	5/30/01	23:07	Jeanmarie	8270C	1491
Phenol	ND	mg/kg	1.65	0.333	5	5/30/01	23:07	Jeanmarie	8270C	1491

mple report continued . . .

TestAmerica
INCORPORATED

ANALYTICAL REPORT

Laboratory Number: 01-A70085
Sample ID: KB-6 9-10
Project: 2961A

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Date	Time	Analyst	Method	Batch
Pyrene	ND	mg/kg	1.65	0.333	5	5/30/01	23:07	Jeanmarie	8270C	1491
Bis(2-ethylhexyl)phthalate	ND	mg/kg	1.65	0.333	5	5/30/01	23:07	Jeanmarie	8270C	1491
1,2,4-Trichlorobenzene	ND	mg/kg	1.65	0.333	5	5/30/01	23:07	Jeanmarie	8270C	1491
2,4,5-Trichlorophenol	ND	mg/kg	1.65	0.330	5	5/30/01	23:07	Jeanmarie	8270C	1491
2,4,6-Trichlorophenol	ND	mg/kg	1.65	0.333	5	5/30/01	23:07	Jeanmarie	8270C	1491
VOLATILE ORGANICS										
Acetone	ND	mg/kg	0.0500	0.0500	1	6/ 1/01	7:40	C. Wani	8260B	4109
Benzene	ND	mg/kg	0.0020	0.0020	1	6/ 1/01	7:40	C. Wani	8260B	4109
Bromobenzene	ND	mg/kg	0.0020	0.0020	1	6/ 1/01	7:40	C. Wani	8260B	4109
Bromochloromethane	ND	mg/kg	0.0020	0.0020	1	6/ 1/01	7:40	C. Wani	8260B	4109
Bromoform	ND	mg/kg	0.0020	0.0020	1	6/ 1/01	7:40	C. Wani	8260B	4109
Bromomethane	ND	mg/kg	0.0020	0.0020	1	6/ 1/01	7:40	C. Wani	8260B	4109
2-Butanone	ND	mg/kg	0.0500	0.0500	1	6/ 1/01	7:40	C. Wani	8260B	4109
n-Butylbenzene	ND	mg/kg	0.0020	0.0020	1	6/ 1/01	7:40	C. Wani	8260B	4109
sec-Butylbenzene	ND	mg/kg	0.0020	0.0020	1	6/ 1/01	7:40	C. Wani	8260B	4109
t-Butylbenzene	ND	mg/kg	0.0020	0.0020	1	6/ 1/01	7:40	C. Wani	8260B	4109
Carbon disulfide	ND	mg/kg	0.0020	0.0020	1	6/ 1/01	7:40	C. Wani	8260B	4109
Carbon tetrachloride	ND	mg/kg	0.0020	0.0020	1	6/ 1/01	7:40	C. Wani	8260B	4109
Chlorobenzene	ND	mg/kg	0.0020	0.0020	1	6/ 1/01	7:40	C. Wani	8260B	4109
Chloroethane	ND	mg/kg	0.0020	0.0020	1	6/ 1/01	7:40	C. Wani	8260B	4109
Chloroform	ND	mg/kg	0.0020	0.0020	1	6/ 1/01	7:40	C. Wani	8260B	4109
Chloromethane	ND	mg/kg	0.0020	0.0020	1	6/ 1/01	7:40	C. Wani	8260B	4109
2-Chlorotoluene	ND	mg/kg	0.0020	0.0020	1	6/ 1/01	7:40	C. Wani	8260B	4109
4-Chlorotoluene	ND	mg/kg	0.0020	0.0020	1	6/ 1/01	7:40	C. Wani	8260B	4109
1,2-Dibromo-3-chloropropane	ND	mg/kg	0.0100	0.0100	1	6/ 1/01	7:40	C. Wani	8260B	4109
Dibromochloromethane	ND	mg/kg	0.0020	0.0020	1	6/ 1/01	7:40	C. Wani	8260B	4109
1,2-Dibromoethane	ND	mg/kg	0.0020	0.0020	1	6/ 1/01	7:40	C. Wani	8260B	4109
Dibromomethane	ND	mg/kg	0.0020	0.0020	1	6/ 1/01	7:40	C. Wani	8260B	4109
1,2-Dichlorobenzene	ND	mg/kg	0.0020	0.0020	1	6/ 1/01	7:40	C. Wani	8260B	4109
1,3-Dichlorobenzene	ND	mg/kg	0.0020	0.0020	1	6/ 1/01	7:40	C. Wani	8260B	4109
1,4-Dichlorobenzene	ND	mg/kg	0.0020	0.0020	1	6/ 1/01	7:40	C. Wani	8260B	4109
Dichlorodifluoromethane	ND	mg/kg	0.0020	0.0020	1	6/ 1/01	7:40	C. Wani	8260B	4109
1,1-Dichloroethane	ND	mg/kg	0.0020	0.0020	1	6/ 1/01	7:40	C. Wani	8260B	4109

ple report continued . . .

TestAmerica
INCORPORATED

ANALYTICAL REPORT

Laboratory Number: 01-A70085
Sample ID: KB-6 9-10
Project: 2961A
Page 4

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Date	Time	Analyst	Method	Batch
1,2-Dichloroethane	ND	mg/kg	0.0020	0.0020	1	6/ 1/01	7:40	C. Wani	8260B	4109
1,1-Dichloroethene	ND	mg/kg	0.0020	0.0020	1	6/ 1/01	7:40	C. Wani	8260B	4109
cis-1,2-Dichloroethene	ND	mg/kg	0.0020	0.0020	1	6/ 1/01	7:40	C. Wani	8260B	4109
trans-1,2-Dichloroethene	ND	mg/kg	0.0020	0.0020	1	6/ 1/01	7:40	C. Wani	8260B	4109
1,2-Dichloropropane	ND	mg/kg	0.0020	0.0020	1	6/ 1/01	7:40	C. Wani	8260B	4109
1,3-Dichloropropane	ND	mg/kg	0.0020	0.0020	1	6/ 1/01	7:40	C. Wani	8260B	4109
2,2-Dichloropropane	ND	mg/kg	0.0020	0.0020	1	6/ 1/01	7:40	C. Wani	8260B	4109
1,1-Dichloropropene	ND	mg/kg	0.0020	0.0020	1	6/ 1/01	7:40	C. Wani	8260B	4109
cis-1,3-Dichloropropene	ND	mg/kg	0.0020	0.0020	1	6/ 1/01	7:40	C. Wani	8260B	4109
trans-1,3-Dichloropropene	ND	mg/kg	0.0020	0.0020	1	6/ 1/01	7:40	C. Wani	8260B	4109
Ethylbenzene	ND	mg/kg	0.0020	0.0020	1	6/ 1/01	7:40	C. Wani	8260B	4109
Hexachlorobutadiene	ND	mg/kg	0.0020	0.0020	1	6/ 1/01	7:40	C. Wani	8260B	4109
2-Hexanone	ND	mg/kg	0.0100	0.0100	1	6/ 1/01	7:40	C. Wani	8260B	4109
Isopropylbenzene	ND	mg/kg	0.0020	0.0020	1	6/ 1/01	7:40	C. Wani	8260B	4109
4-Isopropyltoluene	ND	mg/kg	0.0020	0.0020	1	6/ 1/01	7:40	C. Wani	8260B	4109
4-Methyl-2-pentanone	ND	mg/kg	0.0100	0.0100	1	6/ 1/01	7:40	C. Wani	8260B	4109
Methylene chloride	ND	mg/kg	0.0050	0.0050	1	6/ 1/01	7:40	C. Wani	8260B	4109
Naphthalene	ND	mg/kg	0.0050	0.0050	1	6/ 1/01	7:40	C. Wani	8260B	4109
n-Propylbenzene	ND	mg/kg	0.0020	0.0020	1	6/ 1/01	7:40	C. Wani	8260B	4109
Styrene	ND	mg/kg	0.0020	0.0020	1	6/ 1/01	7:40	C. Wani	8260B	4109
1,1,1,2-Tetrachloroethane	ND	mg/kg	0.0020	0.0020	1	6/ 1/01	7:40	C. Wani	8260B	4109
1,1,2,2-Tetrachloroethane	ND	mg/kg	0.0020	0.0020	1	6/ 1/01	7:40	C. Wani	8260B	4109
Tetrachloroethene	ND	mg/kg	0.0020	0.0020	1	6/ 1/01	7:40	C. Wani	8260B	4109
Toluene	0.0038	mg/kg	0.0020	0.0020	1	6/ 1/01	7:40	C. Wani	8260B	4109
1,2,3-Trichlorobenzene	ND	mg/kg	0.0020	0.0020	1	6/ 1/01	7:40	C. Wani	8260B	4109
1,2,4-Trichlorobenzene	ND	mg/kg	0.0020	0.0020	1	6/ 1/01	7:40	C. Wani	8260B	4109
1,1,1-Trichloroethane	ND	mg/kg	0.0020	0.0020	1	6/ 1/01	7:40	C. Wani	8260B	4109
1,1,2-Trichloroethane	ND	mg/kg	0.0020	0.0020	1	6/ 1/01	7:40	C. Wani	8260B	4109
Trichloroethene	ND	mg/kg	0.0020	0.0020	1	6/ 1/01	7:40	C. Wani	8260B	4109
1,2,3-Trichloropropane	ND	mg/kg	0.0020	0.0020	1	6/ 1/01	7:40	C. Wani	8260B	4109
1,2,4-Trimethylbenzene	ND	mg/kg	0.0020	0.0020	1	6/ 1/01	7:40	C. Wani	8260B	4109
1,3,5-Trimethylbenzene	ND	mg/kg	0.0020	0.0020	1	6/ 1/01	7:40	C. Wani	8260B	4109
Vinyl chloride	ND	mg/kg	0.0020	0.0020	1	6/ 1/01	7:40	C. Wani	8260B	4109
Xylenes, Total	ND	mg/kg	0.0020	0.0020	1	6/ 1/01	7:40	C. Wani	8260B	4109

nple report continued . . .

TestAmerica
INCORPORATED

ANALYTICAL REPORT

Laboratory Number: 01-A70085
Sample ID: KB-6 9-10
Project: 2961A

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Date	Time	Analyst	Method	Batch
Bromodichloromethane	ND	mg/kg	0.0020	0.0020	1	6/ 1/01	7:40	C. Wani	8260B	4109
Trichlorofluoromethane	ND	mg/kg	0.0020	0.0020	1	6/ 1/01	7:40	C. Wani	8260B	4109
METALS										
Arsenic	5.36	mg/kg	0.958	0.958	1	5/31/01	8:38	Rob Hunt	6010B	9326
Barium	84.9	mg/kg	0.958	0.958	1	5/31/01	8:38	Rob Hunt	6010B	9326
Cadmium	ND	mg/kg	0.958	0.958	1	5/31/01	8:38	Rob Hunt	6010B	9326
Chromium	18.2	mg/kg	0.958	0.958	1	5/31/01	8:38	Rob Hunt	6010B	9326
Lead	7.09	mg/kg	0.958	0.958	1	5/31/01	8:38	Rob Hunt	6010B	9326
Mercury	ND	mg/kg	0.100	0.100	1	5/29/01	9:49	C. Terry	7471	9321
Selenium	ND	mg/kg	0.958	0.958	1	5/31/01	8:38	Rob Hunt	6010B	9326
Silver	ND	mg/kg	0.958	0.958	1	5/31/01	8:38	Rob Hunt	6010B	9326
pH	8.10	pH units			1	5/29/01	17:40	J Campbell	9045	8783

ND - Not detected at the report limit.

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Time	Analyst	Method
BNA's	29.9 gm	1.0 ml	5/29/01		J. Rudden	3550

Surrogate	% Recovery	Target Range
surr-1,2-Dichloroethane, d4	99.	50. - 140.
surr-Toluene d8	92.	75. - 141.
surr-4-Bromofluorobenzene	99.	69. - 131.
surr-Dibromofluoromethane	94.	76. - 136.
BNA Surr-Nitrobenzene-d5	89.	26. - 110.

ple report continued . . .

TestAmerica
INCORPORATED

ANALYTICAL REPORT

Laboratory Number: 01-A70085
Sample ID: KB-6 9-10
Project: 2961A

Surrogate	% Recovery	Target Range
BNA Surr-2-Fluorobiphenyl	111.	28. - 112.
BNA Surr-Terphenyl d14	108.	40. - 124.
BNA Surr-Phenol d5	104.	29. - 121.
BNA Surr-2-Fluorophenol	90.	20. - 113.
BNA Surr-2,4,6-Tribromophenol	116.	29. - 144.

- Recovery outside Laboratory historical limits.

All results reported on a wet weight basis.

Sample for pH analysis received outside method prescribed holding time.

These results relate only to the items tested.
This report shall not be reproduced except in full and with permission of the laboratory.

Report Approved By: Gail Lage Report Date: 6/ 4/01

Paul E. Lane, Jr., Lab Director
Michael H. Dunn, M.S., Technical Director
Johnny A. Mitchell, Dir. Technical Serv.
Eric S. Smith, Assistant Technical Director
Gail A. Lage, Technical Serv.
Glenn L. Norton, Technical Serv.
Kelly S. Comstock, Technical Serv.
Pamela A. Langford, Technical Serv.

Laboratory Certification Number: AZ0473

.nd of Sample Report.

2960 Foster Creighton Drive / Nashville,TN 37204 / 615-726-0177 / Fax: 615-726-0954 / 800-765-0980

TestAmerica
INCORPORATED

ANALYTICAL REPORT

KERAMIDA ENVIRONMENTAL 6028
KRISTEN BELLCREDI
330 N. COLLEGE AVENUE
INDIANAPOLIS, IN 46202

Lab Number: 01-A70086
Sample ID: KB-7 1.5-3
Sample Type: Soil
Site ID:

Project: 2961A
Project Name: FRUEHAUF-PHOENIX
Sampler: B.H.

Date Collected: 5/24/01
Time Collected: 8:55
Date Received: 5/25/01
Time Received: 9:00

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Date	Time	Analyst	Method	Batch
EXTRACTABLE ORGANICS										
Acenaphthene	ND	mg/kg	0.330	0.330	1	5/30/01	14:22	Jeanmarie	8270C	1491
Acenaphthylene	ND	mg/kg	0.330	0.330	1	5/30/01	14:22	Jeanmarie	8270C	1491
Anthracene	ND	mg/kg	0.330	0.330	1	5/30/01	14:22	Jeanmarie	8270C	1491
Benzo(a)anthracene	ND	mg/kg	0.330	0.330	1	5/30/01	14:22	Jeanmarie	8270C	1491
Benzo(a)pyrene	ND	mg/kg	0.330	0.330	1	5/30/01	14:22	Jeanmarie	8270C	1491
Benzo(b)fluoranthene	ND	mg/kg	0.330	0.330	1	5/30/01	14:22	Jeanmarie	8270C	1491
Benzo(g,h,i)perylene	ND	mg/kg	0.330	0.330	1	5/30/01	14:22	Jeanmarie	8270C	1491
Benzo(k)fluoranthene	ND	mg/kg	0.330	0.330	1	5/30/01	14:22	Jeanmarie	8270C	1491
4-Bromophenylphenylether	ND	mg/kg	0.330	0.330	1	5/30/01	14:22	Jeanmarie	8270C	1491
Butylbenzylphthalate	ND	mg/kg	0.330	0.330	1	5/30/01	14:22	Jeanmarie	8270C	1491
Carbazole	ND	mg/kg	0.330	0.330	1	5/30/01	14:22	Jeanmarie	8270C	1491
4-Chloro-3-methylphenol	ND	mg/kg	0.330	0.330	1	5/30/01	14:22	Jeanmarie	8270C	1491
4-Chloroaniline	ND	mg/kg	0.330	0.330	1	5/30/01	14:22	Jeanmarie	8270C	1491
bis(2-Chloroethoxy)methane	ND	mg/kg	0.330	0.330	1	5/30/01	14:22	Jeanmarie	8270C	1491
bis(2-Chloroethyl)ether	ND	mg/kg	0.330	0.330	1	5/30/01	14:22	Jeanmarie	8270C	1491
bis(2-Chloroisopropyl)ether	ND	mg/kg	0.330	0.330	1	5/30/01	14:22	Jeanmarie	8270C	1491
2-Chloronaphthalene	ND	mg/kg	0.330	0.330	1	5/30/01	14:22	Jeanmarie	8270C	1491
2-Chlorophenol	ND	mg/kg	0.330	0.330	1	5/30/01	14:22	Jeanmarie	8270C	1491
4-Chlorophenylphenylether	ND	mg/kg	0.330	0.330	1	5/30/01	14:22	Jeanmarie	8270C	1491
Chrysene	ND	mg/kg	0.330	0.330	1	5/30/01	14:22	Jeanmarie	8270C	1491
Dibenzofuran	ND	mg/kg	0.330	0.330	1	5/30/01	14:22	Jeanmarie	8270C	1491
Dibenz(a,h)anthracene	ND	mg/kg	0.330	0.330	1	5/30/01	14:22	Jeanmarie	8270C	1491
1,2-Dichlorobenzene	ND	mg/kg	0.330	0.330	1	5/30/01	14:22	Jeanmarie	8270C	1491
1,3-Dichlorobenzene	ND	mg/kg	0.330	0.330	1	5/30/01	14:22	Jeanmarie	8270C	1491
1,4-Dichlorobenzene	ND	mg/kg	0.330	0.330	1	5/30/01	14:22	Jeanmarie	8270C	1491

mple report continued . . .

TestAmerica
INCORPORATED

ANALYTICAL REPORT

Laboratory Number: 01-A70086
Sample ID: KB-7 1.5-3
Project: 2961A

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Date	Time	Analyst	Method	Batch
3,3'-Dichlorobenzidine	ND	mg/kg	0.330	0.330	1	5/30/01	14:22	Jeanmarie	8270C	1491
2,4-Dichlorophenol	ND	mg/kg	0.330	0.330	1	5/30/01	14:22	Jeanmarie	8270C	1491
Diethylphthalate	ND	mg/kg	0.330	0.330	1	5/30/01	14:22	Jeanmarie	8270C	1491
2,4-Dimethylphenol	ND	mg/kg	0.330	0.330	1	5/30/01	14:22	Jeanmarie	8270C	1491
Dimethylphthalate	ND	mg/kg	0.330	0.330	1	5/30/01	14:22	Jeanmarie	8270C	1491
Di-n-butylphthalate	ND	mg/kg	0.330	0.330	1	5/30/01	14:22	Jeanmarie	8270C	1491
4,6-Dinitro-2-methylphenol	ND	mg/kg	0.330	0.330	1	5/30/01	14:22	Jeanmarie	8270C	1491
2,4-Dinitrophenol	ND	mg/kg	0.330	0.330	1	5/30/01	14:22	Jeanmarie	8270C	1491
2,4-dinitrotoluene	ND	mg/kg	0.330	0.330	1	5/30/01	14:22	Jeanmarie	8270C	1491
2,6-Dinitrotoluene	ND	mg/kg	0.330	0.330	1	5/30/01	14:22	Jeanmarie	8270C	1491
Di-n-octylphthalate	ND	mg/kg	0.330	0.330	1	5/30/01	14:22	Jeanmarie	8270C	1491
Fluoranthene	ND	mg/kg	0.330	0.330	1	5/30/01	14:22	Jeanmarie	8270C	1491
Fluorene	ND	mg/kg	0.330	0.330	1	5/30/01	14:22	Jeanmarie	8270C	1491
Hexachlorobenzene	ND	mg/kg	0.330	0.330	1	5/30/01	14:22	Jeanmarie	8270C	1491
Hexachlorobutadiene	ND	mg/kg	0.330	0.330	1	5/30/01	14:22	Jeanmarie	8270C	1491
Hexachlorocyclopentadiene	ND	mg/kg	0.330	0.330	1	5/30/01	14:22	Jeanmarie	8270C	1491
Hexachloroethane	ND	mg/kg	0.330	0.330	1	5/30/01	14:22	Jeanmarie	8270C	1491
Indeno(1,2,3-cd)pyrene	ND	mg/kg	0.330	0.330	1	5/30/01	14:22	Jeanmarie	8270C	1491
Isophorone	ND	mg/kg	0.330	0.330	1	5/30/01	14:22	Jeanmarie	8270C	1491
2-Methylnaphthalene	ND	mg/kg	0.330	0.330	1	5/30/01	14:22	Jeanmarie	8270C	1491
2-Methylphenol	ND	mg/kg	0.330	0.330	1	5/30/01	14:22	Jeanmarie	8270C	1491
m,p-Methylphenol	ND	mg/kg	0.330	0.330	1	5/30/01	14:22	Jeanmarie	8270C	1491
Naphthalene	ND	mg/kg	0.330	0.330	1	5/30/01	14:22	Jeanmarie	8270C	1491
2-Nitroaniline	ND	mg/kg	0.330	0.330	1	5/30/01	14:22	Jeanmarie	8270C	1491
3-Nitroaniline	ND	mg/kg	0.330	0.330	1	5/30/01	14:22	Jeanmarie	8270C	1491
4-Nitroaniline	ND	mg/kg	0.330	0.330	1	5/30/01	14:22	Jeanmarie	8270C	1491
Nitrobenzene	ND	mg/kg	0.330	0.330	1	5/30/01	14:22	Jeanmarie	8270C	1491
2-Nitrophenol	ND	mg/kg	0.330	0.330	1	5/30/01	14:22	Jeanmarie	8270C	1491
4-Nitrophenol	ND	mg/kg	0.330	0.330	1	5/30/01	14:22	Jeanmarie	8270C	1491
N-nitrosodi-n-propylamine	ND	mg/kg	0.330	0.330	1	5/30/01	14:22	Jeanmarie	8270C	1491
N-nitrosodiphenylamine	ND	mg/kg	0.330	0.330	1	5/30/01	14:22	Jeanmarie	8270C	1491
Pentachlorophenol	ND	mg/kg	0.330	0.330	1	5/30/01	14:22	Jeanmarie	8270C	1491
Phenanthrene	ND	mg/kg	0.330	0.330	1	5/30/01	14:22	Jeanmarie	8270C	1491
Phenol	ND	mg/kg	0.330	0.330	1	5/30/01	14:22	Jeanmarie	8270C	1491

mple report continued . . .

TestAmerica
INCORPORATED

ANALYTICAL REPORT

Laboratory Number: 01-A70086
Sample ID: KB-7 1.5-3
Project: 2961A

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Date	Time	Analyst	Method	Batch
Pyrene	ND	ug/kg	0.330	0.330	1	5/30/01	14:22	Jeanmarie	8270C	1491
Bis(2-ethylhexyl)phthalate	ND	ug/kg	0.330	0.330	1	5/30/01	14:22	Jeanmarie	8270C	1491
1,2,4-Trichlorobenzene	ND	ug/kg	0.330	0.330	1	5/30/01	14:22	Jeanmarie	8270C	1491
2,4,5-Trichlorophenol	ND	ug/kg	0.330	0.330	1	5/30/01	14:22	Jeanmarie	8270C	1491
2,4,6-Trichlorophenol	ND	ug/kg	0.330	0.330	1	5/30/01	14:22	Jeanmarie	8270C	1491
VOLATILE ORGANICS										
Acetone	ND	ug/kg	0.0500	0.0500	1	6/ 1/01	16:46	C. Wani	8260B	4109
Benzene	ND	ug/kg	0.0020	0.0020	1	6/ 1/01	16:46	C. Wani	8260B	4109
Bromobenzene	ND	ug/kg	0.0020	0.0020	1	6/ 1/01	16:46	C. Wani	8260B	4109
Bromochloromethane	ND	ug/kg	0.0020	0.0020	1	6/ 1/01	16:46	C. Wani	8260B	4109
Bromoform	ND	ug/kg	0.0020	0.0020	1	6/ 1/01	16:46	C. Wani	8260B	4109
Bromomethane	ND	ug/kg	0.0020	0.0020	1	6/ 1/01	16:46	C. Wani	8260B	4109
2-Butanone	ND	ug/kg	0.0500	0.0500	1	6/ 1/01	16:46	C. Wani	8260B	4109
n-Butylbenzene	ND	ug/kg	0.0020	0.0020	1	6/ 1/01	16:46	C. Wani	8260B	4109
sec-Butylbenzene	ND	ug/kg	0.0020	0.0020	1	6/ 1/01	16:46	C. Wani	8260B	4109
t-Butylbenzene	ND	ug/kg	0.0020	0.0020	1	6/ 1/01	16:46	C. Wani	8260B	4109
Carbon disulfide	ND	ug/kg	0.0020	0.0020	1	6/ 1/01	16:46	C. Wani	8260B	4109
Carbon tetrachloride	ND	ug/kg	0.0020	0.0020	1	6/ 1/01	16:46	C. Wani	8260B	4109
Chlorobenzene	ND	ug/kg	0.0020	0.0020	1	6/ 1/01	16:46	C. Wani	8260B	4109
Chloroethane	ND	ug/kg	0.0020	0.0020	1	6/ 1/01	16:46	C. Wani	8260B	4109
Chloroform	ND	ug/kg	0.0020	0.0020	1	6/ 1/01	16:46	C. Wani	8260B	4109
Chloromethane	ND	ug/kg	0.0020	0.0020	1	6/ 1/01	16:46	C. Wani	8260B	4109
2-Chlorotoluene	ND	ug/kg	0.0020	0.0020	1	6/ 1/01	16:46	C. Wani	8260B	4109
4-Chlorotoluene	ND	ug/kg	0.0020	0.0020	1	6/ 1/01	16:46	C. Wani	8260B	4109
1,2-Dibromo-3-chloropropane	ND	ug/kg	0.0100	0.0100	1	6/ 1/01	16:46	C. Wani	8260B	4109
Dibromochloromethane	ND	ug/kg	0.0020	0.0020	1	6/ 1/01	16:46	C. Wani	8260B	4109
1,2-Dibromoethane	ND	ug/kg	0.0020	0.0020	1	6/ 1/01	16:46	C. Wani	8260B	4109
Dibromomethane	ND	ug/kg	0.0020	0.0020	1	6/ 1/01	16:46	C. Wani	8260B	4109
1,2-Dichlorobenzene	ND	ug/kg	0.0020	0.0020	1	6/ 1/01	16:46	C. Wani	8260B	4109
1,3-Dichlorobenzene	ND	ug/kg	0.0020	0.0020	1	6/ 1/01	16:46	C. Wani	8260B	4109
1,4-Dichlorobenzene	ND	ug/kg	0.0020	0.0020	1	6/ 1/01	16:46	C. Wani	8260B	4109
Dichlorodifluoromethane	ND	ug/kg	0.0020	0.0020	1	6/ 1/01	16:46	C. Wani	8260B	4109
1,1-Dichloroethane	ND	ug/kg	0.0020	0.0020	1	6/ 1/01	16:46	C. Wani	8260B	4109

ıple report continued . . .

TestAmerica
INCORPORATED

ANALYTICAL REPORT

Laboratory Number: 01-A70086
Sample ID: KB-7 1.5-3
Project: 2961A
Page 4

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Date	Time	Analyst	Method	Batch
1,2-Dichloroethane	ND	mg/kg	0.0020	0.0020	1	6/ 1/01	16:46	C. Wani	8260B	4109
1,1-Dichloroethene	ND	mg/kg	0.0020	0.0020	1	6/ 1/01	16:46	C. Wani	8260B	4109
cis-1,2-Dichloroethene	ND	mg/kg	0.0020	0.0020	1	6/ 1/01	16:46	C. Wani	8260B	4109
trans-1,2-Dichloroethene	ND	mg/kg	0.0020	0.0020	1	6/ 1/01	16:46	C. Wani	8260B	4109
1,2-Dichloropropane	ND	mg/kg	0.0020	0.0020	1	6/ 1/01	16:46	C. Wani	8260B	4109
1,3-Dichloropropane	ND	mg/kg	0.0020	0.0020	1	6/ 1/01	16:46	C. Wani	8260B	4109
2,2-Dichloropropane	ND	mg/kg	0.0020	0.0020	1	6/ 1/01	16:46	C. Wani	8260B	4109
1,1-Dichloropropene	ND	mg/kg	0.0020	0.0020	1	6/ 1/01	16:46	C. Wani	8260B	4109
cis-1,3-Dichloropropene	ND	mg/kg	0.0020	0.0020	1	6/ 1/01	16:46	C. Wani	8260B	4109
trans-1,3-Dichloropropene	ND	mg/kg	0.0020	0.0020	1	6/ 1/01	16:46	C. Wani	8260B	4109
Ethylbenzene	ND	mg/kg	0.0020	0.0020	1	6/ 1/01	16:46	C. Wani	8260B	4109
Hexachlorobutadiene	ND	mg/kg	0.0020	0.0020	1	6/ 1/01	16:46	C. Wani	8260B	4109
2-Hexanone	ND	mg/kg	0.0100	0.0100	1	6/ 1/01	16:46	C. Wani	8260B	4109
Isopropylbenzene	ND	mg/kg	0.0020	0.0020	1	6/ 1/01	16:46	C. Wani	8260B	4109
4-Isopropyltoluene	ND	mg/kg	0.0020	0.0020	1	6/ 1/01	16:46	C. Wani	8260B	4109
4-Methyl-2-pentanone	ND	mg/kg	0.0100	0.0100	1	6/ 1/01	16:46	C. Wani	8260B	4109
Methylene chloride	ND	mg/kg	0.0050	0.0050	1	6/ 1/01	16:46	C. Wani	8260B	4109
Naphthalene	ND	mg/kg	0.0050	0.0050	1	6/ 1/01	16:46	C. Wani	8260B	4109
n-Propylbenzene	ND	mg/kg	0.0020	0.0020	1	6/ 1/01	16:46	C. Wani	8260B	4109
Styrene	ND	mg/kg	0.0020	0.0020	1	6/ 1/01	16:46	C. Wani	8260B	4109
1,1,1,2-Tetrachloroethane	ND	mg/kg	0.0020	0.0020	1	6/ 1/01	16:46	C. Wani	8260B	4109
1,1,2,2-Tetrachloroethane	ND	mg/kg	0.0020	0.0020	1	6/ 1/01	16:46	C. Wani	8260B	4109
Tetrachloroethene	ND	mg/kg	0.0020	0.0020	1	6/ 1/01	16:46	C. Wani	8260B	4109
Toluene	ND	mg/kg	0.0020	0.0020	1	6/ 1/01	16:46	C. Wani	8260B	4109
1,2,3-Trichlorobenzene	ND	mg/kg	0.0020	0.0020	1	6/ 1/01	16:46	C. Wani	8260B	4109
1,2,4-Trichlorobenzene	ND	mg/kg	0.0020	0.0020	1	6/ 1/01	16:46	C. Wani	8260B	4109
1,1,1-Trichloroethane	ND	mg/kg	0.0020	0.0020	1	6/ 1/01	16:46	C. Wani	8260B	4109
1,1,2-Trichloroethane	ND	mg/kg	0.0020	0.0020	1	6/ 1/01	16:46	C. Wani	8260B	4109
Trichloroethene	ND	mg/kg	0.0020	0.0020	1	6/ 1/01	16:46	C. Wani	8260B	4109
1,2,3-Trichloropropane	ND	mg/kg	0.0020	0.0020	1	6/ 1/01	16:46	C. Wani	8260B	4109
1,2,4-Trimethylbenzene	ND	mg/kg	0.0020	0.0020	1	6/ 1/01	16:46	C. Wani	8260B	4109
1,3,5-Trimethylbenzene	ND	mg/kg	0.0020	0.0020	1	6/ 1/01	16:46	C. Wani	8260B	4109
Vinyl chloride	ND	mg/kg	0.0020	0.0020	1	6/ 1/01	16:46	C. Wani	8260B	4109
Xylenes, Total	ND	mg/kg	0.0020	0.0020	1	6/ 1/01	16:46	C. Wani	8260B	4109

ıple report continued . . .

TestAmerica
INCORPORATED

ANALYTICAL REPORT

Laboratory Number: 01-A70086
Sample ID: KB-7 1.5-3
Project: 2961A

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Date	Time	Analyst	Method	Batch
Bromodichloromethane	ND	mg/kg	0.0020	0.0020	1	6/ 1/01	16:46	C. Wani	8260B	4109
Trichlorofluoromethane	ND	mg/kg	0.0020	0.0020	1	6/ 1/01	16:46	C. Wani	8260B	4109
METALS										
Arsenic	10.9	mg/kg	0.975	0.975	1	5/31/01	8:38	Rob Hunt	6010B	9326
Barium	515.	mg/kg	0.975	0.975	1	5/31/01	8:38	Rob Hunt	6010B	9326
Cadmium	ND	mg/kg	0.975	0.975	1	5/31/01	8:38	Rob Hunt	6010B	9326
Chromium	43.7	mg/kg	0.975	0.975	1	5/31/01	8:38	Rob Hunt	6010B	9326
Lead	4870	mg/kg	9.75	1.00	10	5/31/01	8:38	Rob Hunt	6010B	9326
Mercury	ND	mg/kg	0.098	0.098	1	5/29/01	9:49	C. Terry	7471	9321
Selenium	ND	mg/kg	0.975	0.975	1	5/31/01	8:38	Rob Hunt	6010B	9326
Silver	ND	mg/kg	0.975	0.975	1	5/31/01	8:38	Rob Hunt	6010B	9326
pH	8.50	pH units			1	5/29/01	17:40	J Campbell	9045	8783

ND - Not detected at the report limit.

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Time	Analyst	Method
BNA's	30.2 gm	1.0 ml	5/29/01		J. Rudden	3550

Surrogate	% Recovery	Target Range
surr-1,2-Dichloroethane, d4	96.	50. - 140.
surr-Toluene d8	88.	75. - 141.
surr-4-Bromofluorobenzene	100.	69. - 131.
surr-Dibromofluoromethane	90.	76. - 136.
BNA Surr-Nitrobenzene-d5	75.	26. - 110.

mple report continued . . .

TestAmerica
INCORPORATED

ANALYTICAL REPORT

Laboratory Number: 01-A70086
Sample ID: KB-7 1.5-3
Project: 2961A

Surrogate	% Recovery	Target Range
BNA Surr-2-Fluorobiphenyl	77.	28. - 112.
BNA Surr-Terphenyl d14	89.	40. - 124.
BNA Surr-Phenol d5	84.	29. - 121.
BNA Surr-2-Fluorophenol	75.	20. - 113.
BNA Surr-2,4,6-Tribromophenol	110.	29. - 144.

- Recovery outside Laboratory historical limits.

All results reported on a wet weight basis.

Sample for pH analysis received outside method prescribed holding time.

These results relate only to the items tested.
This report shall not be reproduced except in full and with permission of the laboratory.

Report Approved By: Gail Lage Report Date: 6/ 4/01

Paul E. Lane, Jr., Lab Director
Michael H. Dunn, M.S., Technical Director
Johnny A. Mitchell, Dir. Technical Serv.
Eric S. Smith, Assistant Technical Director
Gail A. Lage, Technical Serv.
Glenn L. Norton, Technical Serv.
Kelly S. Comstock, Technical Serv.
Pamela A. Langford, Technical Serv.

Laboratory Certification Number: AZ0473

.id of Sample Report.

2960 Foster Creighton Drive / Nashville,TN 37204 / 615-726-0177 / Fax: 615-726-0954 / 800-765-0980

TestAmerica
INCORPORATED

ANALYTICAL REPORT

KERAMIDA ENVIRONMENTAL 6028
KRISTEN BELLCREDI
330 N. COLLEGE AVENUE
INDIANAPOLIS, IN 46202

Lab Number: 01-A70087
Sample ID: KB-7 10.5-11.5
Sample Type: Soil
Site ID:

Project: 2961A
Project Name: FRUEHAUF-PHOENIX
Sampler: B.H.

Date Collected: 5/24/01
Time Collected: 10:00
Date Received: 5/25/01
Time Received: 9:00

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Date	Time	Analyst	Method	Batch
EXTRACTABLE ORGANICS										
Acenaphthene	ND	mg/kg	0.330	0.330	1	5/30/01	15:00	Jeanmarie	8270C	1491
Acenaphthylene	ND	mg/kg	0.330	0.330	1	5/30/01	15:00	Jeanmarie	8270C	1491
Anthracene	ND	mg/kg	0.330	0.330	1	5/30/01	15:00	Jeanmarie	8270C	1491
Benzo(a)anthracene	ND	mg/kg	0.330	0.330	1	5/30/01	15:00	Jeanmarie	8270C	1491
Benzo(a)pyrene	ND	mg/kg	0.330	0.330	1	5/30/01	15:00	Jeanmarie	8270C	1491
Benzo(b)fluoranthene	ND	mg/kg	0.330	0.330	1	5/30/01	15:00	Jeanmarie	8270C	1491
Benzo(g,h,i)perylene	ND	mg/kg	0.330	0.330	1	5/30/01	15:00	Jeanmarie	8270C	1491
Benzo(k)fluoranthene	ND	mg/kg	0.330	0.330	1	5/30/01	15:00	Jeanmarie	8270C	1491
4-Bromophenylphenylether	ND	mg/kg	0.330	0.330	1	5/30/01	15:00	Jeanmarie	8270C	1491
Butylbenzylphthalate	ND	mg/kg	0.330	0.330	1	5/30/01	15:00	Jeanmarie	8270C	1491
Carbazole	ND	mg/kg	0.330	0.330	1	5/30/01	15:00	Jeanmarie	8270C	1491
4-Chloro-3-methylphenol	ND	mg/kg	0.330	0.330	1	5/30/01	15:00	Jeanmarie	8270C	1491
4-Chloroaniline	ND	mg/kg	0.330	0.330	1	5/30/01	15:00	Jeanmarie	8270C	1491
bis(2-Chloroethoxy)methane	ND	mg/kg	0.330	0.330	1	5/30/01	15:00	Jeanmarie	8270C	1491
bis(2-Chloroethyl)ether	ND	mg/kg	0.330	0.330	1	5/30/01	15:00	Jeanmarie	8270C	1491
bis(2-Chloroisopropyl)ether	ND	mg/kg	0.330	0.330	1	5/30/01	15:00	Jeanmarie	8270C	1491
2-Chloronaphthalene	ND	mg/kg	0.330	0.330	1	5/30/01	15:00	Jeanmarie	8270C	1491
2-Chlorophenol	ND	mg/kg	0.330	0.330	1	5/30/01	15:00	Jeanmarie	8270C	1491
4-Chlorophenylphenylether	ND	mg/kg	0.330	0.330	1	5/30/01	15:00	Jeanmarie	8270C	1491
Chrysene	ND	mg/kg	0.330	0.330	1	5/30/01	15:00	Jeanmarie	8270C	1491
Dibenzofuran	ND	mg/kg	0.330	0.330	1	5/30/01	15:00	Jeanmarie	8270C	1491
Dibenz(a,h)anthracene	ND	mg/kg	0.330	0.330	1	5/30/01	15:00	Jeanmarie	8270C	1491
1,2-Dichlorobenzene	ND	mg/kg	0.330	0.330	1	5/30/01	15:00	Jeanmarie	8270C	1491
1,3-Dichlorobenzene	ND	mg/kg	0.330	0.330	1	5/30/01	15:00	Jeanmarie	8270C	1491
1,4-Dichlorobenzene	ND	mg/kg	0.330	0.330	1	5/30/01	15:00	Jeanmarie	8270C	1491

ıple report continued . . .

TestAmerica
INCORPORATED

ANALYTICAL REPORT

Laboratory Number: 01-A70087
Sample ID: KB-7 10.5-11.5
Project: 2961A
Page 2

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Date	Time	Analyst	Method	Batch
3,3'-Dichlorobenzidine	ND	mg/kg	0.330	0.330	1	5/30/01	15:00	Jeanmarie	8270C	1491
2,4-Dichlorophenol	ND	mg/kg	0.330	0.330	1	5/30/01	15:00	Jeanmarie	8270C	1491
Diethylphthalate	ND	mg/kg	0.330	0.330	1	5/30/01	15:00	Jeanmarie	8270C	1491
2,4-Dimethylphenol	ND	mg/kg	0.330	0.330	1	5/30/01	15:00	Jeanmarie	8270C	1491
Dimethylphthalate	ND	mg/kg	0.330	0.330	1	5/30/01	15:00	Jeanmarie	8270C	1491
Di-n-butylphthalate	ND	mg/kg	0.330	0.330	1	5/30/01	15:00	Jeanmarie	8270C	1491
4,6-Dinitro-2-methylphenol	ND	mg/kg	0.330	0.330	1	5/30/01	15:00	Jeanmarie	8270C	1491
2,4-Dinitrophenol	ND	mg/kg	0.330	0.330	1	5/30/01	15:00	Jeanmarie	8270C	1491
2,4-dinitrotoluene	ND	mg/kg	0.330	0.330	1	5/30/01	15:00	Jeanmarie	8270C	1491
2,6-Dinitrotoluene	ND	mg/kg	0.330	0.330	1	5/30/01	15:00	Jeanmarie	8270C	1491
Di-n-octylphthalate	ND	mg/kg	0.330	0.330	1	5/30/01	15:00	Jeanmarie	8270C	1491
Fluoranthene	ND	mg/kg	0.330	0.330	1	5/30/01	15:00	Jeanmarie	8270C	1491
Fluorene	ND	mg/kg	0.330	0.330	1	5/30/01	15:00	Jeanmarie	8270C	1491
Hexachlorobenzene	ND	mg/kg	0.330	0.330	1	5/30/01	15:00	Jeanmarie	8270C	1491
Hexachlorobutadiene	ND	mg/kg	0.330	0.330	1	5/30/01	15:00	Jeanmarie	8270C	1491
Hexachlorocyclopentadiene	ND	mg/kg	0.330	0.330	1	5/30/01	15:00	Jeanmarie	8270C	1491
Hexachloroethane	ND	mg/kg	0.330	0.330	1	5/30/01	15:00	Jeanmarie	8270C	1491
Indeno(1,2,3-cd)pyrene	ND	mg/kg	0.330	0.330	1	5/30/01	15:00	Jeanmarie	8270C	1491
Isophorone	ND	mg/kg	0.330	0.330	1	5/30/01	15:00	Jeanmarie	8270C	1491
2-Methylnaphthalene	ND	mg/kg	0.330	0.330	1	5/30/01	15:00	Jeanmarie	8270C	1491
2-Methylphenol	ND	mg/kg	0.330	0.330	1	5/30/01	15:00	Jeanmarie	8270C	1491
m,p-Methylphenol	ND	mg/kg	0.330	0.330	1	5/30/01	15:00	Jeanmarie	8270C	1491
Naphthalene	ND	mg/kg	0.330	0.330	1	5/30/01	15:00	Jeanmarie	8270C	1491
2-Nitroaniline	ND	mg/kg	0.330	0.330	1	5/30/01	15:00	Jeanmarie	8270C	1491
3-Nitroaniline	ND	mg/kg	0.330	0.330	1	5/30/01	15:00	Jeanmarie	8270C	1491
4-Nitroaniline	ND	mg/kg	0.330	0.330	1	5/30/01	15:00	Jeanmarie	8270C	1491
Nitrobenzene	ND	mg/kg	0.330	0.330	1	5/30/01	15:00	Jeanmarie	8270C	1491
2-Nitrophenol	ND	mg/kg	0.330	0.330	1	5/30/01	15:00	Jeanmarie	8270C	1491
4-Nitrophenol	ND	mg/kg	0.330	0.330	1	5/30/01	15:00	Jeanmarie	8270C	1491
N-nitrosodi-n-propylamine	ND	mg/kg	0.330	0.330	1	5/30/01	15:00	Jeanmarie	8270C	1491
N-nitrosodiphenylamine	ND	mg/kg	0.330	0.330	1	5/30/01	15:00	Jeanmarie	8270C	1491
Pentachlorophenol	ND	mg/kg	0.330	0.330	1	5/30/01	15:00	Jeanmarie	8270C	1491
Phenanthrene	ND	mg/kg	0.330	0.330	1	5/30/01	15:00	Jeanmarie	8270C	1491
Phenol	ND	mg/kg	0.330	0.330	1	5/30/01	15:00	Jeanmarie	8270C	1491

nple report continued . . .

TestAmerica
INCORPORATED

ANALYTICAL REPORT

Laboratory Number: 01-A70087
Sample ID: KB-7 10.5-11.5
Project: 2961A

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Date	Time	Analyst	Method	Batch
Pyrene	ND	mg/kg	0.330	0.330	1	5/30/01	15:00	Jeanmarie	8270C	1491
Bis(2-ethylhexyl)phthalate	ND	mg/kg	0.330	0.330	1	5/30/01	15:00	Jeanmarie	8270C	1491
1,2,4-Trichlorobenzene	ND	mg/kg	0.330	0.330	1	5/30/01	15:00	Jeanmarie	8270C	1491
2,4,5-Trichlorophenol	ND	mg/kg	0.330	0.330	1	5/30/01	15:00	Jeanmarie	8270C	1491
2,4,6-Trichlorophenol	ND	mg/kg	0.330	0.330	1	5/30/01	15:00	Jeanmarie	8270C	1491
VOLATILE ORGANICS										
Acetone	ND	mg/kg	0.0500	0.0500	1	6/ 1/01	17:24	C. Wani	8260B	4109
Benzene	ND	mg/kg	0.0020	0.0020	1	6/ 1/01	17:24	C. Wani	8260B	4109
Bromobenzene	ND	mg/kg	0.0020	0.0020	1	6/ 1/01	17:24	C. Wani	8260B	4109
Bromochloromethane	ND	mg/kg	0.0020	0.0020	1	6/ 1/01	17:24	C. Wani	8260B	4109
Bromoform	ND	mg/kg	0.0020	0.0020	1	6/ 1/01	17:24	C. Wani	8260B	4109
Bromomethane	ND	mg/kg	0.0020	0.0020	1	6/ 1/01	17:24	C. Wani	8260B	4109
2-Butanone	ND	mg/kg	0.0500	0.0500	1	6/ 1/01	17:24	C. Wani	8260B	4109
n-Butylbenzene	ND	mg/kg	0.0020	0.0020	1	6/ 1/01	17:24	C. Wani	8260B	4109
sec-Butylbenzene	ND	mg/kg	0.0020	0.0020	1	6/ 1/01	17:24	C. Wani	8260B	4109
t-Butylbenzene	ND	mg/kg	0.0020	0.0020	1	6/ 1/01	17:24	C. Wani	8260B	4109
Carbon disulfide	ND	mg/kg	0.0020	0.0020	1	6/ 1/01	17:24	C. Wani	8260B	4109
Carbon tetrachloride	ND	mg/kg	0.0020	0.0020	1	6/ 1/01	17:24	C. Wani	8260B	4109
Chlorobenzene	ND	mg/kg	0.0020	0.0020	1	6/ 1/01	17:24	C. Wani	8260B	4109
Chloroethane	ND	mg/kg	0.0020	0.0020	1	6/ 1/01	17:24	C. Wani	8260B	4109
Chloroform	ND	mg/kg	0.0020	0.0020	1	6/ 1/01	17:24	C. Wani	8260B	4109
Chloromethane	ND	mg/kg	0.0020	0.0020	1	6/ 1/01	17:24	C. Wani	8260B	4109
2-Chlorotoluene	ND	mg/kg	0.0020	0.0020	1	6/ 1/01	17:24	C. Wani	8260B	4109
4-Chlorotoluene	ND	mg/kg	0.0020	0.0020	1	6/ 1/01	17:24	C. Wani	8260B	4109
1,2-Dibromo-3-chloropropane	ND	mg/kg	0.0100	0.0100	1	6/ 1/01	17:24	C. Wani	8260B	4109
Dibromochloromethane	ND	mg/kg	0.0020	0.0020	1	6/ 1/01	17:24	C. Wani	8260B	4109
1,2-Dibromoethane	ND	mg/kg	0.0020	0.0020	1	6/ 1/01	17:24	C. Wani	8260B	4109
Dibromomethane	ND	mg/kg	0.0020	0.0020	1	6/ 1/01	17:24	C. Wani	8260B	4109
1,2-Dichlorobenzene	ND	mg/kg	0.0020	0.0020	1	6/ 1/01	17:24	C. Wani	8260B	4109
1,3-Dichlorobenzene	ND	mg/kg	0.0020	0.0020	1	6/ 1/01	17:24	C. Wani	8260B	4109
1,4-Dichlorobenzene	ND	mg/kg	0.0020	0.0020	1	6/ 1/01	17:24	C. Wani	8260B	4109
Dichlorodifluoromethane	ND	mg/kg	0.0020	0.0020	1	6/ 1/01	17:24	C. Wani	8260B	4109
1,1-Dichloroethane	ND	mg/kg	0.0020	0.0020	1	6/ 1/01	17:24	C. Wani	8260B	4109

mple report continued . . .

TestAmerica
INCORPORATED

ANALYTICAL REPORT

Laboratory Number: 01-A70087
Sample ID: KB-7 10.5-11.5
Project: 2961A
Page 4

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Date	Time	Analyst	Method	Batch
1,2-Dichloroethane	ND	mg/kg	0.0020	0.0020	1	6/ 1/01	17:24	C. Wani	8260B	4109
1,1-Dichloroethene	ND	mg/kg	0.0020	0.0020	1	6/ 1/01	17:24	C. Wani	8260B	4109
cis-1,2-Dichloroethene	ND	mg/kg	0.0020	0.0020	1	6/ 1/01	17:24	C. Wani	8260B	4109
trans-1,2-Dichloroethene	ND	mg/kg	0.0020	0.0020	1	6/ 1/01	17:24	C. Wani	8260B	4109
1,2-Dichloropropane	ND	mg/kg	0.0020	0.0020	1	6/ 1/01	17:24	C. Wani	8260B	4109
1,3-Dichloropropane	ND	mg/kg	0.0020	0.0020	1	6/ 1/01	17:24	C. Wani	8260B	4109
2,2-Dichloropropane	ND	mg/kg	0.0020	0.0020	1	6/ 1/01	17:24	C. Wani	8260B	4109
1,1-Dichloropropene	ND	mg/kg	0.0020	0.0020	1	6/ 1/01	17:24	C. Wani	8260B	4109
cis-1,3-Dichloropropene	ND	mg/kg	0.0020	0.0020	1	6/ 1/01	17:24	C. Wani	8260B	4109
trans-1,3-Dichloropropene	ND	mg/kg	0.0020	0.0020	1	6/ 1/01	17:24	C. Wani	8260B	4109
Ethylbenzene	ND	mg/kg	0.0020	0.0020	1	6/ 1/01	17:24	C. Wani	8260B	4109
Hexachlorobutadiene	ND	mg/kg	0.0020	0.0020	1	6/ 1/01	17:24	C. Wani	8260B	4109
2-Hexanone	ND	mg/kg	0.0100	0.0100	1	6/ 1/01	17:24	C. Wani	8260B	4109
Isopropylbenzene	ND	mg/kg	0.0020	0.0020	1	6/ 1/01	17:24	C. Wani	8260B	4109
4-Isopropyltoluene	ND	mg/kg	0.0020	0.0020	1	6/ 1/01	17:24	C. Wani	8260B	4109
4-Methyl-2-pentanone	ND	mg/kg	0.0100	0.0100	1	6/ 1/01	17:24	C. Wani	8260B	4109
Methylene chloride	ND	mg/kg	0.0050	0.0050	1	6/ 1/01	17:24	C. Wani	8260B	4109
Naphthalene	ND	mg/kg	0.0050	0.0050	1	6/ 1/01	17:24	C. Wani	8260B	4109
n-Propylbenzene	ND	mg/kg	0.0020	0.0020	1	6/ 1/01	17:24	C. Wani	8260B	4109
Styrene	ND	mg/kg	0.0020	0.0020	1	6/ 1/01	17:24	C. Wani	8260B	4109
1,1,1,2-Tetrachloroethane	ND	mg/kg	0.0020	0.0020	1	6/ 1/01	17:24	C. Wani	8260B	4109
1,1,2,2-Tetrachloroethane	ND	mg/kg	0.0020	0.0020	1	6/ 1/01	17:24	C. Wani	8260B	4109
Tetrachloroethene	ND	mg/kg	0.0020	0.0020	1	6/ 1/01	17:24	C. Wani	8260B	4109
Toluene	ND	mg/kg	0.0020	0.0020	1	6/ 1/01	17:24	C. Wani	8260B	4109
1,2,3-Trichlorobenzene	ND	mg/kg	0.0020	0.0020	1	6/ 1/01	17:24	C. Wani	8260B	4109
1,2,4-Trichlorobenzene	ND	mg/kg	0.0020	0.0020	1	6/ 1/01	17:24	C. Wani	8260B	4109
1,1,1-Trichloroethane	ND	mg/kg	0.0020	0.0020	1	6/ 1/01	17:24	C. Wani	8260B	4109
1,1,2-Trichloroethane	ND	mg/kg	0.0020	0.0020	1	6/ 1/01	17:24	C. Wani	8260B	4109
Trichloroethene	ND	mg/kg	0.0020	0.0020	1	6/ 1/01	17:24	C. Wani	8260B	4109
1,2,3-Trichloropropane	ND	mg/kg	0.0020	0.0020	1	6/ 1/01	17:24	C. Wani	8260B	4109
1,2,4-Trimethylbenzene	ND	mg/kg	0.0020	0.0020	1	6/ 1/01	17:24	C. Wani	8260B	4109
1,3,5-Trimethylbenzene	ND	mg/kg	0.0020	0.0020	1	6/ 1/01	17:24	C. Wani	8260B	4109
Vinyl chloride	ND	mg/kg	0.0020	0.0020	1	6/ 1/01	17:24	C. Wani	8260B	4109
Xylenes, Total	ND	mg/kg	0.0020	0.0020	1	6/ 1/01	17:24	C. Wani	8260B	4109

ample report continued . . .

TestAmerica
INCORPORATED

ANALYTICAL REPORT

Laboratory Number: 01-A70087
Sample ID: KB-7 10.5-11.5
Project: 2961A

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Date	Time	Analyst	Method	Batch
Bromodichloromethane	ND	mg/kg	0.0020	0.0020	1	6/ 1/01	17:24	C. Wani	8260B	4109
Trichlorofluoromethane	ND	mg/kg	0.0020	0.0020	1	6/ 1/01	17:24	C. Wani	8260B	4109
METALS										
Arsenic	8.22	mg/kg	0.978	0.978	1	5/31/01	8:38	Rob Hunt	6010B	9326
Barium	71.4	mg/kg	0.978	0.978	1	5/31/01	8:38	Rob Hunt	6010B	9326
Cadmium	ND	mg/kg	0.978	0.978	1	5/31/01	8:38	Rob Hunt	6010B	9326
Chromium	30.7	mg/kg	0.978	0.978	1	5/31/01	8:38	Rob Hunt	6010B	9326
Lead	6.46	mg/kg	0.978	0.978	1	5/31/01	8:38	Rob Hunt	6010B	9326
Mercury	ND	mg/kg	0.100	0.100	1	5/29/01	9:49	C. Terry	7471	9321
Selenium	ND	mg/kg	0.978	0.978	1	5/31/01	8:38	Rob Hunt	6010B	9326
Silver	ND	mg/kg	0.978	0.978	1	5/31/01	8:38	Rob Hunt	6010B	9326
pH	9.60	pH units			1	5/29/01	17:43	J Campbell	9045	8783

ND - Not detected at the report limit.

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Time	Analyst	Method
BNA's	29.9 gm	1.0 ml	5/29/01		J. Rudden	3550

Surrogate	% Recovery	Target Range
surr-1,2-Dichloroethane, d4	87.	50. - 140.
surr-Toluene d8	81.	75. - 141.
surr-4-Bromofluorobenzene	85.	69. - 131.
surr-Dibromofluoromethane	78.	76. - 136.
BNA Surr-Nitrobenzene-d5	80.	26. - 110.

ample report continued . . .

TestAmerica
INCORPORATED

ANALYTICAL REPORT

Laboratory Number: 01-A70087
Sample ID: KB-7 10.5-11.5
Project: 2961A
Page 6

Surrogate	% Recovery	Target Range
BNA Surr-2-Fluorobiphenyl	80.	28. - 112.
BNA Surr-Terphenyl d14	94.	40. - 124.
BNA Surr-Phenol d5	97.	29. - 121.
BNA Surr-2-Fluorophenol	83.	20. - 113.
BNA Surr-2,4,6-Tribromophenol	112.	29. - 144.

- Recovery outside Laboratory historical limits.

All results reported on a wet weight basis.

Sample for pH analysis received outside method prescribed holding time.

These results relate only to the items tested.
This report shall not be reproduced except in full and with permission of the laboratory.

Report Approved By: _____ Report Date: 6/ 4/01

Paul E. Lane, Jr., Lab Director
Michael H. Dunn, M.S., Technical Director
Johnny A. Mitchell, Dir. Technical Serv.
Eric S. Smith, Assistant Technical Director
Gail A. Lage, Technical Serv.
Glenn L. Norton, Technical Serv.
Kelly S. Comstock, Technical Serv.
Pamela A. Langford, Technical Serv.

Laboratory Certification Number: AZ0473

End of Sample Report.

TestAmerica
INCORPORATED

ANALYTICAL REPORT

KERAMIDA ENVIRONMENTAL 6028
KRISTEN BELLCREDI
330 N. COLLEGE AVENUE
INDIANAPOLIS, IN 46202

Lab Number: 01-A68605
Sample ID: KB-8 0.5-1.5
Sample Type: Soil
Site ID:

Project: 2961A
Project Name: FRUEHAUF-PHOENIX
Sampler: B.H.

Date Collected: 5/22/01
Time Collected: 9:20
Date Received: 5/23/01
Time Received: 9:00

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Date	Time	Analyst	Method	Batch
EXTRACTABLE ORGANICS										
Acenaphthene	ND	mg/kg	0.330	0.330	1	5/26/01	14:13	Jeanmarie	8270C	8348
Acenaphthylene	ND	mg/kg	0.330	0.330	1	5/26/01	14:13	Jeanmarie	8270C	8348
Anthracene	ND	mg/kg	0.330	0.330	1	5/26/01	14:13	Jeanmarie	8270C	8348
Benzo(a)anthracene	ND	mg/kg	0.330	0.330	1	5/26/01	14:13	Jeanmarie	8270C	8348
Benzo(a)pyrene	ND	mg/kg	0.330	0.330	1	5/26/01	14:13	Jeanmarie	8270C	8348
Benzo(b)fluoranthene	ND	mg/kg	0.330	0.330	1	5/26/01	14:13	Jeanmarie	8270C	8348
Benzo(g,h,i)perylene	ND	mg/kg	0.330	0.330	1	5/26/01	14:13	Jeanmarie	8270C	8348
Benzo(k)fluoranthene	ND	mg/kg	0.330	0.330	1	5/26/01	14:13	Jeanmarie	8270C	8348
4-Bromophenylphenylether	ND	mg/kg	0.330	0.330	1	5/26/01	14:13	Jeanmarie	8270C	8348
Butylbenzylphthalate	ND	mg/kg	0.330	0.330	1	5/26/01	14:13	Jeanmarie	8270C	8348
Carbazole	ND	mg/kg	0.330	0.330	1	5/26/01	14:13	Jeanmarie	8270C	8348
4-Chloro-3-methylphenol	ND	mg/kg	0.330	0.330	1	5/26/01	14:13	Jeanmarie	8270C	8348
4-Chloroaniline	ND	mg/kg	0.330	0.330	1	5/26/01	14:13	Jeanmarie	8270C	8348
bis(2-Chloroethoxy)methane	ND	mg/kg	0.330	0.330	1	5/26/01	14:13	Jeanmarie	8270C	8348
bis(2-Chloroethyl)ether	ND	mg/kg	0.330	0.330	1	5/26/01	14:13	Jeanmarie	8270C	8348
bis(2-Chloroisopropyl)ether	ND	mg/kg	0.330	0.330	1	5/26/01	14:13	Jeanmarie	8270C	8348
2-Chloronaphthalene	ND	mg/kg	0.330	0.330	1	5/26/01	14:13	Jeanmarie	8270C	8348
2-Chlorophenol	ND	mg/kg	0.330	0.330	1	5/26/01	14:13	Jeanmarie	8270C	8348
4-Chlorophenylphenylether	ND	mg/kg	0.330	0.330	1	5/26/01	14:13	Jeanmarie	8270C	8348
Chrysene	ND	mg/kg	0.330	0.330	1	5/26/01	14:13	Jeanmarie	8270C	8348
Dibenzofuran	ND	mg/kg	0.330	0.330	1	5/26/01	14:13	Jeanmarie	8270C	8348
Dibenz(a,h)anthracene	ND	mg/kg	0.330	0.330	1	5/26/01	14:13	Jeanmarie	8270C	8348
1,2-Dichlorobenzene	ND	mg/kg	0.330	0.330	1	5/26/01	14:13	Jeanmarie	8270C	8348
1,3-Dichlorobenzene	ND	mg/kg	0.330	0.330	1	5/26/01	14:13	Jeanmarie	8270C	8348
1,4-Dichlorobenzene	ND	mg/kg	0.330	0.330	1	5/26/01	14:13	Jeanmarie	8270C	8348

nple report continued . . .

TestAmerica
INCORPORATED

ANALYTICAL REPORT

Laboratory Number: 01-A68605
Sample ID: KB-8 0.5-1.5
Project: 2961A
Page 2

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Date	Time	Analyst	Method	Batch
3,3'-Dichlorobenzidine	ND	mg/kg	0.330	0.330	1	5/26/01	14:13	Jeanmarie	8270C	8348
2,4-Dichlorophenol	ND	mg/kg	0.330	0.330	1	5/26/01	14:13	Jeanmarie	8270C	8348
Diethylphthalate	ND	mg/kg	0.330	0.330	1	5/26/01	14:13	Jeanmarie	8270C	8348
2,4-Dimethylphenol	ND	mg/kg	0.330	0.330	1	5/26/01	14:13	Jeanmarie	8270C	8348
Dimethylphthalate	ND	mg/kg	0.330	0.330	1	5/26/01	14:13	Jeanmarie	8270C	8348
Di-n-butylphthalate	ND	mg/kg	0.330	0.330	1	5/26/01	14:13	Jeanmarie	8270C	8348
4,6-Dinitro-2-methylphenol	ND	mg/kg	0.330	0.330	1	5/26/01	14:13	Jeanmarie	8270C	8348
2,4-Dinitrophenol	ND	mg/kg	0.330	0.330	1	5/26/01	14:13	Jeanmarie	8270C	8348
2,4-dinitrotoluene	ND	mg/kg	0.330	0.330	1	5/26/01	14:13	Jeanmarie	8270C	8348
2,6-Dinitrotoluene	ND	mg/kg	0.330	0.330	1	5/26/01	14:13	Jeanmarie	8270C	8348
Di-n-octylphthalate	ND	mg/kg	0.330	0.330	1	5/26/01	14:13	Jeanmarie	8270C	8348
Fluoranthene	ND	mg/kg	0.330	0.330	1	5/26/01	14:13	Jeanmarie	8270C	8348
Fluorene	ND	mg/kg	0.330	0.330	1	5/26/01	14:13	Jeanmarie	8270C	8348
Hexachlorobenzene	ND	mg/kg	0.330	0.330	1	5/26/01	14:13	Jeanmarie	8270C	8348
Hexachlorobutadiene	ND	mg/kg	0.330	0.330	1	5/26/01	14:13	Jeanmarie	8270C	8348
Hexachlorocyclopentadiene	ND	mg/kg	0.330	0.330	1	5/26/01	14:13	Jeanmarie	8270C	8348
Hexachloroethane	ND	mg/kg	0.330	0.330	1	5/26/01	14:13	Jeanmarie	8270C	8348
Indeno(1,2,3-cd)pyrene	ND	mg/kg	0.330	0.330	1	5/26/01	14:13	Jeanmarie	8270C	8348
Isophorone	ND	mg/kg	0.330	0.330	1	5/26/01	14:13	Jeanmarie	8270C	8348
2-Methylnaphthalene	ND	mg/kg	0.330	0.330	1	5/26/01	14:13	Jeanmarie	8270C	8348
2-Methylphenol	ND	mg/kg	0.330	0.330	1	5/26/01	14:13	Jeanmarie	8270C	8348
m,p-Methylphenol	ND	mg/kg	0.330	0.330	1	5/26/01	14:13	Jeanmarie	8270C	8348
Naphthalene	ND	mg/kg	0.330	0.330	1	5/26/01	14:13	Jeanmarie	8270C	8348
2-Nitroaniline	ND	mg/kg	0.330	0.330	1	5/26/01	14:13	Jeanmarie	8270C	8348
3-Nitroaniline	ND	mg/kg	0.330	0.330	1	5/26/01	14:13	Jeanmarie	8270C	8348
4-Nitroaniline	ND	mg/kg	0.330	0.330	1	5/26/01	14:13	Jeanmarie	8270C	8348
Nitrobenzene	ND	mg/kg	0.330	0.330	1	5/26/01	14:13	Jeanmarie	8270C	8348
2-Nitrophenol	ND	mg/kg	0.330	0.330	1	5/26/01	14:13	Jeanmarie	8270C	8348
4-Nitrophenol	ND	mg/kg	0.330	0.330	1	5/26/01	14:13	Jeanmarie	8270C	8348
N-nitrosodi-n-propylamine	ND	mg/kg	0.330	0.330	1	5/26/01	14:13	Jeanmarie	8270C	8348
N-nitrosodiphenylamine	ND	mg/kg	0.330	0.330	1	5/26/01	14:13	Jeanmarie	8270C	8348
Pentachlorophenol	ND	mg/kg	0.330	0.330	1	5/26/01	14:13	Jeanmarie	8270C	8348
Phenanthrene	ND	mg/kg	0.330	0.330	1	5/26/01	14:13	Jeanmarie	8270C	8348
Phenol	ND	mg/kg	0.330	0.330	1	5/26/01	14:13	Jeanmarie	8270C	8348

ɔle report continued . . .

TestAmerica
INCORPORATED

ANALYTICAL REPORT

Laboratory Number: 01-A68605
Sample ID: KB-8 0.5-1.5
Project: 2961A

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Date	Time	Analyst	Method	Batch
Pyrene	ND	mg/kg	0.330	0.330	1	5/26/01	14:13	Jeanmarie	8270C	8348
Bis(2-ethylhexyl)phthalate	ND	mg/kg	0.330	0.330	1	5/26/01	14:13	Jeanmarie	8270C	8348
1,2,4-Trichlorobenzene	ND	mg/kg	0.330	0.330	1	5/26/01	14:13	Jeanmarie	8270C	8348
2,4,5-Trichlorophenol	ND	mg/kg	0.330	0.330	1	5/26/01	14:13	Jeanmarie	8270C	8348
2,4,6-Trichlorophenol	ND	mg/kg	0.330	0.330	1	5/26/01	14:13	Jeanmarie	8270C	8348
VOLATILE ORGANICS										
Acetone	ND	mg/kg	0.0500	0.0500	1	5/30/01	4:39	S. Wani	8260B	7065
Benzene	ND	mg/kg	0.0020	0.0020	1	5/30/01	4:39	S. Wani	8260B	7065
Bromobenzene	ND	mg/kg	0.0020	0.0020	1	5/30/01	4:39	S. Wani	8260B	7065
Bromochloromethane	ND	mg/kg	0.0020	0.0020	1	5/30/01	4:39	S. Wani	8260B	7065
Bromoform	ND	mg/kg	0.0020	0.0020	1	5/30/01	4:39	S. Wani	8260B	7065
Bromomethane	ND	mg/kg	0.0020	0.0020	1	5/30/01	4:39	S. Wani	8260B	7065
2-Butanone	ND	mg/kg	0.0500	0.0500	1	5/30/01	4:39	S. Wani	8260B	7065
n-Butylbenzene	ND	mg/kg	0.0020	0.0020	1	5/30/01	4:39	S. Wani	8260B	7065
sec-Butylbenzene	ND	mg/kg	0.0020	0.0020	1	5/30/01	4:39	S. Wani	8260B	7065
t-Butylbenzene	ND	mg/kg	0.0020	0.0020	1	5/30/01	4:39	S. Wani	8260B	7065
Carbon disulfide	ND	mg/kg	0.0020	0.0020	1	5/30/01	4:39	S. Wani	8260B	7065
Carbon tetrachloride	ND	mg/kg	0.0020	0.0020	1	5/30/01	4:39	S. Wani	8260B	7065
Chlorobenzene	ND	mg/kg	0.0020	0.0020	1	5/30/01	4:39	S. Wani	8260B	7065
Chloroethane	ND	mg/kg	0.0020	0.0020	1	5/30/01	4:39	S. Wani	8260B	7065
Chloroform	ND	mg/kg	0.0020	0.0020	1	5/30/01	4:39	S. Wani	8260B	7065
Chloromethane	ND	mg/kg	0.0020	0.0020	1	5/30/01	4:39	S. Wani	8260B	7065
2-Chlorotoluene	ND	mg/kg	0.0020	0.0020	1	5/30/01	4:39	S. Wani	8260B	7065
4-Chlorotoluene	ND	mg/kg	0.0020	0.0020	1	5/30/01	4:39	S. Wani	8260B	7065
1,2-Dibromo-3-chloropropane	ND	mg/kg	0.0100	0.0100	1	5/30/01	4:39	S. Wani	8260B	7065
Dibromochloromethane	ND	mg/kg	0.0020	0.0020	1	5/30/01	4:39	S. Wani	8260B	7065
1,2-Dibromoethane	ND	mg/kg	0.0020	0.0020	1	5/30/01	4:39	S. Wani	8260B	7065
Dibromomethane	ND	mg/kg	0.0020	0.0020	1	5/30/01	4:39	S. Wani	8260B	7065
1,2-Dichlorobenzene	ND	mg/kg	0.0020	0.0020	1	5/30/01	4:39	S. Wani	8260B	7065
1,3-Dichlorobenzene	ND	mg/kg	0.0020	0.0020	1	5/30/01	4:39	S. Wani	8260B	7065
1,4-Dichlorobenzene	ND	mg/kg	0.0020	0.0020	1	5/30/01	4:39	S. Wani	8260B	7065
Dichlorodifluoromethane	ND	mg/kg	0.0020	0.0020	1	5/30/01	4:39	S. Wani	8260B	7065
1,1-Dichloroethane	ND	mg/kg	0.0020	0.0020	1	5/30/01	4:39	S. Wani	8260B	7065

ple report continued . . .

TestAmerica
INCORPORATED

ANALYTICAL REPORT

Laboratory Number: 01-A68605
Sample ID: KB-8 0.5-1.5
Project: 2961A

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Date	Time	Analyst	Method	Batch
1,2-Dichloroethane	ND	mg/kg	0.0020	0.0020	1	5/30/01	4:39	S. Wani	8260B	7065
1,1-Dichloroethene	ND	mg/kg	0.0020	0.0020	1	5/30/01	4:39	S. Wani	8260B	7065
cis-1,2-Dichloroethene	ND	mg/kg	0.0020	0.0020	1	5/30/01	4:39	S. Wani	8260B	7065
trans-1,2-Dichloroethene	ND	mg/kg	0.0020	0.0020	1	5/30/01	4:39	S. Wani	8260B	7065
1,2-Dichloropropane	ND	mg/kg	0.0020	0.0020	1	5/30/01	4:39	S. Wani	8260B	7065
1,3-Dichloropropane	ND	mg/kg	0.0020	0.0020	1	5/30/01	4:39	S. Wani	8260B	7065
2,2-Dichloropropane	ND	mg/kg	0.0020	0.0020	1	5/30/01	4:39	S. Wani	8260B	7065
1,1-Dichloropropene	ND	mg/kg	0.0020	0.0020	1	5/30/01	4:39	S. Wani	8260B	7065
cis-1,3-Dichloropropene	ND	mg/kg	0.0020	0.0020	1	5/30/01	4:39	S. Wani	8260B	7065
trans-1,3-Dichloropropene	ND	mg/kg	0.0020	0.0020	1	5/30/01	4:39	S. Wani	8260B	7065
Ethylbenzene	ND	mg/kg	0.0020	0.0020	1	5/30/01	4:39	S. Wani	8260B	7065
Hexachlorobutadiene	ND	mg/kg	0.0020	0.0020	1	5/30/01	4:39	S. Wani	8260B	7065
2-Hexanone	ND	mg/kg	0.0100	0.0100	1	5/30/01	4:39	S. Wani	8260B	7065
Isopropylbenzene	ND	mg/kg	0.0020	0.0020	1	5/30/01	4:39	S. Wani	8260B	7065
4-Isopropyltoluene	ND	mg/kg	0.0020	0.0020	1	5/30/01	4:39	S. Wani	8260B	7065
4-Methyl-2-pentanone	ND	mg/kg	0.0100	0.0100	1	5/30/01	4:39	S. Wani	8260B	7065
Methylene chloride	ND	mg/kg	0.0050	0.0050	1	5/30/01	4:39	S. Wani	8260B	7065
Naphthalene	ND	mg/kg	0.0050	0.0050	1	5/30/01	4:39	S. Wani	8260B	7065
n-Propylbenzene	ND	mg/kg	0.0020	0.0020	1	5/30/01	4:39	S. Wani	8260B	7065
Styrene	ND	mg/kg	0.0020	0.0020	1	5/30/01	4:39	S. Wani	8260B	7065
1,1,1,2-Tetrachloroethane	ND	mg/kg	0.0020	0.0020	1	5/30/01	4:39	S. Wani	8260B	7065
1,1,2,2-Tetrachloroethane	ND	mg/kg	0.0020	0.0020	1	5/30/01	4:39	S. Wani	8260B	7065
Tetrachloroethene	ND	mg/kg	0.0020	0.0020	1	5/30/01	4:39	S. Wani	8260B	7065
Toluene	ND	mg/kg	0.0020	0.0020	1	5/30/01	4:39	S. Wani	8260B	7065
1,2,3-Trichlorobenzene	ND	mg/kg	0.0020	0.0020	1	5/30/01	4:39	S. Wani	8260B	7065
1,2,4-Trichlorobenzene	ND	mg/kg	0.0020	0.0020	1	5/30/01	4:39	S. Wani	8260B	7065
1,1,1-Trichloroethane	ND	mg/kg	0.0020	0.0020	1	5/30/01	4:39	S. Wani	8260B	7065
1,1,2-Trichloroethane	ND	mg/kg	0.0020	0.0020	1	5/30/01	4:39	S. Wani	8260B	7065
Trichloroethene	ND	mg/kg	0.0020	0.0020	1	5/30/01	4:39	S. Wani	8260B	7065
1,2,3-Trichloropropane	ND	mg/kg	0.0020	0.0020	1	5/30/01	4:39	S. Wani	8260B	7065
1,2,4-Trimethylbenzene	ND	mg/kg	0.0020	0.0020	1	5/30/01	4:39	S. Wani	8260B	7065
1,3,5-Trimethylbenzene	ND	mg/kg	0.0020	0.0020	1	5/30/01	4:39	S. Wani	8260B	7065
Vinyl chloride	ND	mg/kg	0.0020	0.0020	1	5/30/01	4:39	S. Wani	8260B	7065
Xylenes, Total	ND	mg/kg	0.0020	0.0020	1	5/30/01	4:39	S. Wani	8260B	7065

mple report continued . . .

TestAmerica
INCORPORATED

ANALYTICAL REPORT

Laboratory Number: 01-A68605
Sample ID: KB-8 0.5-1.5
Project: 2961A

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Date	Time	Analyst	Method	Batch
Bromodichloromethane	ND	mg/kg	0.0020	0.0020	1	5/30/01	4:39	S. Wani	8260B	7065
Trichlorofluoromethane	ND	mg/kg	0.0020	0.0020	1	5/30/01	4:39	S. Wani	8260B	7065
PESTICIDE/PCB's/HERBICIDES										
Aroclor 1016	ND	mg/kg	0.0200	0.0200	1	5/25/01	20:12	M. Cauthen	8082	8363
Aroclor 1221	ND	mg/kg	0.0200	0.0200	1	5/25/01	20:12	M. Cauthen	8082	8363
Aroclor 1232	ND	mg/kg	0.0200	0.0200	1	5/25/01	20:12	M. Cauthen	8082	8363
Aroclor 1242	ND	mg/kg	0.0200	0.0200	1	5/25/01	20:12	M. Cauthen	8082	8363
Aroclor 1248	ND	mg/kg	0.0200	0.0200	1	5/25/01	20:12	M. Cauthen	8082	8363
Aroclor 1254	ND	mg/kg	0.0200	0.0200	1	5/25/01	20:12	M. Cauthen	8082	8363
Aroclor 1260	0.0513	mg/kg	0.0200	0.0200	1	5/25/01	20:12	M. Cauthen	8082	8363
METALS										
Arsenic	11.4	mg/kg	0.996	0.996	1	5/24/01	16:34	G.McCord	6010B	7298
Barium	187.	mg/kg	0.996	0.996	1	5/24/01	16:34	G.McCord	6010B	7298
Cadmium	ND	mg/kg	0.996	0.996	1	5/24/01	16:34	G.McCord	6010B	7298
Chromium	28.1	mg/kg	0.996	0.996	1	5/24/01	16:34	G.McCord	6010B	7298
Copper	24.3	mg/kg	0.996	0.996	1	5/24/01	16:34	G.McCord	6010B	7298
Lead	41.6	mg/kg	0.996	0.996	1	5/24/01	16:34	G.McCord	6010B	7298
Mercury	ND	mg/kg	0.098	0.098	1	5/24/01	12:44	C. Terry	7471	7307
Selenium	2.19	mg/kg	0.996	0.996	1	5/24/01	16:34	G.McCord	6010B	7298
Silver	ND	mg/kg	0.996	0.996	1	5/24/01	16:34	G.McCord	6010B	7298
pH	7.60	pH units			1	5/25/01	11:45	K.Bundy	9045	7168

ND - Not detected at the report limit.

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Time	Analyst	Method
BNA's	30.3 gm	1.0 ml	5/23/01		J. Rudden	3550

mple report continued . . .

TestAmerica
INCORPORATED

ANALYTICAL REPORT

Laboratory Number: 01-A68605
Sample ID: KB-8 0.5-1.5
Project: 2961A

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Time	Analyst	Method
PCB's	30.0 gm	10.0 ml	5/23/01		J. Rudden	3550

Surrogate	% Recovery	Target Range
surr-1,2-Dichloroethane, d4	97.	50. - 140.
surr-Toluene d8	100.	75. - 141.
surr-4-Bromofluorobenzene	99.	69. - 131.
surr-Dibromofluoromethane	98.	76. - 136.
BNA Surr-Nitrobenzene-d5	63.	26. - 110.
BNA Surr-2-Fluorobiphenyl	76.	28. - 112.
BNA Surr-Terphenyl d14	85.	40. - 124.
BNA Surr-Phenol d5	80.	29. - 121.
BNA Surr-2-Fluorophenol	68.	20. - 113.
BNA Surr-2,4,6-Tribromophenol	105.	29. - 144.
pcb surr-TCMX	100.	23. - 156.
pcb surr-DCB	98.	15. - 130.

- Recovery outside Laboratory historical limits.

All results reported on a wet weight basis.

Sample for pH analysis received outside method prescribed holding time.

ıple report continued . . .

TestAmerica
INCORPORATED

ANALYTICAL REPORT

Laboratory Number: 01-A68605
Sample ID: KB-8 0.5-1.5
Project: 2961A
Page 7

These results relate only to the items tested.
This report shall not be reproduced except in full and with permission of the laboratory.

Report Approved By: _____ Report Date: 6/ 1/01

Paul E. Lane, Jr., Lab Director
Michael H. Dunn, M.S., Technical Director
Johnny A. Mitchell, Dir. Technical Serv.
Eric S. Smith, Assistant Technical Director
Gail A. Lage, Technical Serv.
Glenn L. Norton, Technical Serv.
Kelly S. Comstock, Technical Serv.
Pamela A. Langford, Technical Serv.

Laboratory Certification Number: AZ0473

'nd of Sample Report.

TestAmerica
INCORPORATED

ANALYTICAL REPORT

KERAMIDA ENVIRONMENTAL 6028
KRISTEN BELLCREDI
330 N. COLLEGE AVENUE
INDIANAPOLIS, IN 46202

Lab Number: 01-A68606
Sample ID: KB-8 9-10
Sample Type: Soil
Site ID:

Project: 2961A
Project Name: FRUEHAUF-PHOENIX
Sampler: B.H.

Date Collected: 5/22/01
Time Collected: 9:20
Date Received: 5/23/01
Time Received: 9:00

Analyte	Result	Units	Report Limit	Quan Limit	Dil. Factor	Date	Time	Analyst	Method	Batch
EXTRACTABLE ORGANICS										
Acenaphthene	ND	mg/kg	1.65	0.330	5	5/26/01	23:34	Jeanmarie	8270C	8348
Acenaphthylene	ND	mg/kg	1.65	0.330	5	5/26/01	23:34	Jeanmarie	8270C	8348
Anthracene	ND	mg/kg	1.65	0.330	5	5/26/01	23:34	Jeanmarie	8270C	8348
Benzo(a)anthracene	ND	mg/kg	1.65	0.330	5	5/26/01	23:34	Jeanmarie	8270C	8348
Benzo(a)pyrene	ND	mg/kg	1.65	0.330	5	5/26/01	23:34	Jeanmarie	8270C	8348
Benzo(b)fluoranthene	ND	mg/kg	1.65	0.330	5	5/26/01	23:34	Jeanmarie	8270C	8348
Benzo(g,h,i)perylene	ND	mg/kg	1.65	0.330	5	5/26/01	23:34	Jeanmarie	8270C	8348
Benzo(k)fluoranthene	ND	mg/kg	1.65	0.330	5	5/26/01	23:34	Jeanmarie	8270C	8348
4-Bromophenylphenylether	ND	mg/kg	1.65	0.330	5	5/26/01	23:34	Jeanmarie	8270C	8348
Butylbenzylphthalate	ND	mg/kg	1.65	0.330	5	5/26/01	23:34	Jeanmarie	8270C	8348
Carbazole	ND	mg/kg	1.65	0.330	5	5/26/01	23:34	Jeanmarie	8270C	8348
4-Chloro-3-methylphenol	ND	mg/kg	1.65	0.330	5	5/26/01	23:34	Jeanmarie	8270C	8348
4-Chloroaniline	ND	mg/kg	1.65	0.330	5	5/26/01	23:34	Jeanmarie	8270C	8348
bis(2-Chloroethoxy)methane	ND	mg/kg	1.65	0.333	5	5/26/01	23:34	Jeanmarie	8270C	8348
bis(2-Chloroethyl)ether	ND	mg/kg	1.65	0.333	5	5/26/01	23:34	Jeanmarie	8270C	8348
bis(2-Chloroisopropyl)ether	ND	mg/kg	1.65	0.333	5	5/26/01	23:34	Jeanmarie	8270C	8348
2-Chloronaphthalene	ND	mg/kg	1.65	0.333	5	5/26/01	23:34	Jeanmarie	8270C	8348
2-Chlorophenol	ND	mg/kg	1.65	0.333	5	5/26/01	23:34	Jeanmarie	8270C	8348
4-Chlorophenylphenylether	ND	mg/kg	1.65	0.333	5	5/26/01	23:34	Jeanmarie	8270C	8348
Chrysene	ND	mg/kg	1.65	0.333	5	5/26/01	23:34	Jeanmarie	8270C	8348
Dibenzofuran	ND	mg/kg	1.65	0.333	5	5/26/01	23:34	Jeanmarie	8270C	8348
Dibenz(a,h)anthracene	ND	mg/kg	1.65	0.333	5	5/26/01	23:34	Jeanmarie	8270C	8348
1,2-Dichlorobenzene	ND	mg/kg	1.65	0.333	5	5/26/01	23:34	Jeanmarie	8270C	8348
1,3-Dichlorobenzene	ND	mg/kg	1.65	0.333	5	5/26/01	23:34	Jeanmarie	8270C	8348
1,4-Dichlorobenzene	ND	mg/kg	1.65	0.333	5	5/26/01	23:34	Jeanmarie	8270C	8348

ple report continued . . .

TestAmerica
INCORPORATED

ANALYTICAL REPORT

Laboratory Number: 01-A68606
Sample ID: KB-8 9-10
Project: 2961A

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Date	Time	Analyst	Method	Batch
3,3'-Dichlorobenzidine	ND	mg/kg	1.65	0.330	5	5/26/01	23:34	Jeanmarie	8270C	8348
2,4-Dichlorophenol	ND	mg/kg	1.65	0.333	5	5/26/01	23:34	Jeanmarie	8270C	8348
Diethylphthalate	ND	mg/kg	1.65	0.333	5	5/26/01	23:34	Jeanmarie	8270C	8348
2,4-Dimethylphenol	ND	mg/kg	1.65	0.333	5	5/26/01	23:34	Jeanmarie	8270C	8348
Dimethylphthalate	ND	mg/kg	1.65	0.333	5	5/26/01	23:34	Jeanmarie	8270C	8348
Di-n-butylphthalate	ND	mg/kg	1.65	0.333	5	5/26/01	23:34	Jeanmarie	8270C	8348
4,6-Dinitro-2-methylphenol	ND	mg/kg	1.65	0.330	5	5/26/01	23:34	Jeanmarie	8270C	8348
2,4-Dinitrophenol	ND	mg/kg	1.65	0.330	5	5/26/01	23:34	Jeanmarie	8270C	8348
2,4-dinitrotoluene	ND	mg/kg	1.65	0.333	5	5/26/01	23:34	Jeanmarie	8270C	8348
2,6-Dinitrotoluene	ND	mg/kg	1.65	0.333	5	5/26/01	23:34	Jeanmarie	8270C	8348
Di-n-octylphthalate	ND	mg/kg	1.65	0.333	5	5/26/01	23:34	Jeanmarie	8270C	8348
Fluoranthene	ND	mg/kg	1.65	0.333	5	5/26/01	23:34	Jeanmarie	8270C	8348
Fluorene	ND	mg/kg	1.65	0.333	5	5/26/01	23:34	Jeanmarie	8270C	8348
Hexachlorobenzene	ND	mg/kg	1.65	0.333	5	5/26/01	23:34	Jeanmarie	8270C	8348
Hexachlorobutadiene	ND	mg/kg	1.65	0.333	5	5/26/01	23:34	Jeanmarie	8270C	8348
Hexachlorocyclopentadiene	ND	mg/kg	1.65	0.333	5	5/26/01	23:34	Jeanmarie	8270C	8348
Hexachloroethane	ND	mg/kg	1.65	0.333	5	5/26/01	23:34	Jeanmarie	8270C	8348
Indeno(1,2,3-cd)pyrene	ND	mg/kg	1.65	0.333	5	5/26/01	23:34	Jeanmarie	8270C	8348
Isophorone	ND	mg/kg	1.65	0.333	5	5/26/01	23:34	Jeanmarie	8270C	8348
2-Methylnaphthalene	ND	mg/kg	1.65	0.333	5	5/26/01	23:34	Jeanmarie	8270C	8348
2-Methylphenol	ND	mg/kg	1.65	0.333	5	5/26/01	23:34	Jeanmarie	8270C	8348
m,p-Methylphenol	ND	mg/kg	1.65	0.333	5	5/26/01	23:34	Jeanmarie	8270C	8348
Naphthalene	ND	mg/kg	1.65	0.333	5	5/26/01	23:34	Jeanmarie	8270C	8348
2-Nitroaniline	ND	mg/kg	1.65	0.330	5	5/26/01	23:34	Jeanmarie	8270C	8348
3-Nitroaniline	ND	mg/kg	1.65	0.330	5	5/26/01	23:34	Jeanmarie	8270C	8348
4-Nitroaniline	ND	mg/kg	1.65	0.330	5	5/26/01	23:34	Jeanmarie	8270C	8348
Nitrobenzene	ND	mg/kg	1.65	0.333	5	5/26/01	23:34	Jeanmarie	8270C	8348
2-Nitrophenol	ND	mg/kg	1.65	0.333	5	5/26/01	23:34	Jeanmarie	8270C	8348
4-Nitrophenol	ND	mg/kg	1.65	0.330	5	5/26/01	23:34	Jeanmarie	8270C	8348
N-nitrosodi-n-propylamine	ND	mg/kg	1.65	0.333	5	5/26/01	23:34	Jeanmarie	8270C	8348
N-nitrosodiphenylamine	ND	mg/kg	1.65	0.333	5	5/26/01	23:34	Jeanmarie	8270C	8348
Pentachlorophenol	ND	mg/kg	1.65	0.330	5	5/26/01	23:34	Jeanmarie	8270C	8348
Phenanthrene	ND	mg/kg	1.65	0.333	5	5/26/01	23:34	Jeanmarie	8270C	8348
Phenol	ND	mg/kg	1.65	0.333	5	5/26/01	23:34	Jeanmarie	8270C	8348

nple report continued . . .

TestAmerica
INCORPORATED

ANALYTICAL REPORT

Laboratory Number: 01-A68606
Sample ID: KB-8 9-10
Project: 2961A

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Date	Time	Analyst	Method	Batch
Pyrene	ND	mg/kg	1.65	0.333	5	5/26/01	23:34	Jeanmarie	8270C	8348
Bis(2-ethylhexyl)phthalate	ND	mg/kg	1.65	0.333	5	5/26/01	23:34	Jeanmarie	8270C	8348
1,2,4-Trichlorobenzene	ND	mg/kg	1.65	0.333	5	5/26/01	23:34	Jeanmarie	8270C	8348
2,4,5-Trichlorophenol	ND	mg/kg	1.65	0.330	5	5/26/01	23:34	Jeanmarie	8270C	8348
2,4,6-Trichlorophenol	ND	mg/kg	1.65	0.333	5	5/26/01	23:34	Jeanmarie	8270C	8348
VOLATILE ORGANICS										
Acetone	ND	mg/kg	0.0500	0.0500	1	5/30/01	5:17	S. Wani	8260B	7065
Benzene	ND	mg/kg	0.0020	0.0020	1	5/30/01	5:17	S. Wani	8260B	7065
Bromobenzene	ND	mg/kg	0.0020	0.0020	1	5/30/01	5:17	S. Wani	8260B	7065
Bromochloromethane	ND	mg/kg	0.0020	0.0020	1	5/30/01	5:17	S. Wani	8260B	7065
Bromoform	ND	mg/kg	0.0020	0.0020	1	5/30/01	5:17	S. Wani	8260B	7065
Bromomethane	ND	mg/kg	0.0020	0.0020	1	5/30/01	5:17	S. Wani	8260B	7065
2-Butanone	ND	mg/kg	0.0500	0.0500	1	5/30/01	5:17	S. Wani	8260B	7065
n-Butylbenzene	ND	mg/kg	0.0020	0.0020	1	5/30/01	5:17	S. Wani	8260B	7065
sec-Butylbenzene	ND	mg/kg	0.0020	0.0020	1	5/30/01	5:17	S. Wani	8260B	7065
t-Butylbenzene	ND	mg/kg	0.0020	0.0020	1	5/30/01	5:17	S. Wani	8260B	7065
Carbon disulfide	ND	mg/kg	0.0020	0.0020	1	5/30/01	5:17	S. Wani	8260B	7065
Carbon tetrachloride	ND	mg/kg	0.0020	0.0020	1	5/30/01	5:17	S. Wani	8260B	7065
Chlorobenzene	ND	mg/kg	0.0020	0.0020	1	5/30/01	5:17	S. Wani	8260B	7065
Chloroethane	ND	mg/kg	0.0020	0.0020	1	5/30/01	5:17	S. Wani	8260B	7065
Chloroform	ND	mg/kg	0.0020	0.0020	1	5/30/01	5:17	S. Wani	8260B	7065
Chloromethane	ND	mg/kg	0.0020	0.0020	1	5/30/01	5:17	S. Wani	8260B	7065
2-Chlorotoluene	ND	mg/kg	0.0020	0.0020	1	5/30/01	5:17	S. Wani	8260B	7065
4-Chlorotoluene	ND	mg/kg	0.0020	0.0020	1	5/30/01	5:17	S. Wani	8260B	7065
1,2-Dibromo-3-chloropropane	ND	mg/kg	0.0100	0.0100	1	5/30/01	5:17	S. Wani	8260B	7065
Dibromochloromethane	ND	mg/kg	0.0020	0.0020	1	5/30/01	5:17	S. Wani	8260B	7065
1,2-Dibromoethane	ND	mg/kg	0.0020	0.0020	1	5/30/01	5:17	S. Wani	8260B	7065
Dibromomethane	ND	mg/kg	0.0020	0.0020	1	5/30/01	5:17	S. Wani	8260B	7065
1,2-Dichlorobenzene	ND	mg/kg	0.0020	0.0020	1	5/30/01	5:17	S. Wani	8260B	7065
1,3-Dichlorobenzene	ND	mg/kg	0.0020	0.0020	1	5/30/01	5:17	S. Wani	8260B	7065
1,4-Dichlorobenzene	ND	mg/kg	0.0020	0.0020	1	5/30/01	5:17	S. Wani	8260B	7065
Dichlorodifluoromethane	ND	mg/kg	0.0020	0.0020	1	5/30/01	5:17	S. Wani	8260B	7065
1,1-Dichloroethane	ND	mg/kg	0.0020	0.0020	1	5/30/01	5:17	S. Wani	8260B	7065

ple report continued . . .

TestAmerica
INCORPORATED

ANALYTICAL REPORT

Laboratory Number: 01-A68606
Sample ID: KB-8 9-10
Project: 2961A
Page 4

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Date	Time	Analyst	Method	Batch
1,2-Dichloroethane	ND	mg/kg	0.0020	0.0020	1	5/30/01	5:17	S. Wani	8260B	7065
1,1-Dichloroethene	ND	mg/kg	0.0020	0.0020	1	5/30/01	5:17	S. Wani	8260B	7065
cis-1,2-Dichloroethene	ND	mg/kg	0.0020	0.0020	1	5/30/01	5:17	S. Wani	8260B	7065
trans-1,2-Dichloroethene	ND	mg/kg	0.0020	0.0020	1	5/30/01	5:17	S. Wani	8260B	7065
1,2-Dichloropropane	ND	mg/kg	0.0020	0.0020	1	5/30/01	5:17	S. Wani	8260B	7065
1,3-Dichloropropane	ND	mg/kg	0.0020	0.0020	1	5/30/01	5:17	S. Wani	8260B	7065
2,2-Dichloropropane	ND	mg/kg	0.0020	0.0020	1	5/30/01	5:17	S. Wani	8260B	7065
1,1-Dichloropropene	ND	mg/kg	0.0020	0.0020	1	5/30/01	5:17	S. Wani	8260B	7065
cis-1,3-Dichloropropene	ND	mg/kg	0.0020	0.0020	1	5/30/01	5:17	S. Wani	8260B	7065
trans-1,3-Dichloropropene	ND	mg/kg	0.0020	0.0020	1	5/30/01	5:17	S. Wani	8260B	7065
Ethylbenzene	ND	mg/kg	0.0020	0.0020	1	5/30/01	5:17	S. Wani	8260B	7065
Hexachlorobutadiene	ND	mg/kg	0.0020	0.0020	1	5/30/01	5:17	S. Wani	8260B	7065
2-Hexanone	ND	mg/kg	0.0100	0.0100	1	5/30/01	5:17	S. Wani	8260B	7065
Isopropylbenzene	ND	mg/kg	0.0020	0.0020	1	5/30/01	5:17	S. Wani	8260B	7065
4-Isopropyltoluene	ND	mg/kg	0.0020	0.0020	1	5/30/01	5:17	S. Wani	8260B	7065
4-Methyl-2-pentanone	ND	mg/kg	0.0100	0.0100	1	5/30/01	5:17	S. Wani	8260B	7065
Methylene chloride	ND	mg/kg	0.0050	0.0050	1	5/30/01	5:17	S. Wani	8260B	7065
Naphthalene	ND	mg/kg	0.0050	0.0050	1	5/30/01	5:17	S. Wani	8260B	7065
n-Propylbenzene	ND	mg/kg	0.0020	0.0020	1	5/30/01	5:17	S. Wani	8260B	7065
Styrene	ND	mg/kg	0.0020	0.0020	1	5/30/01	5:17	S. Wani	8260B	7065
1,1,1,2-Tetrachloroethane	ND	mg/kg	0.0020	0.0020	1	5/30/01	5:17	S. Wani	8260B	7065
1,1,2,2-Tetrachloroethane	ND	mg/kg	0.0020	0.0020	1	5/30/01	5:17	S. Wani	8260B	7065
Tetrachloroethene	ND	mg/kg	0.0020	0.0020	1	5/30/01	5:17	S. Wani	8260B	7065
Toluene	ND	mg/kg	0.0020	0.0020	1	5/30/01	5:17	S. Wani	8260B	7065
1,2,3-Trichlorobenzene	ND	mg/kg	0.0020	0.0020	1	5/30/01	5:17	S. Wani	8260B	7065
1,2,4-Trichlorobenzene	ND	mg/kg	0.0020	0.0020	1	5/30/01	5:17	S. Wani	8260B	7065
1,1,1-Trichloroethane	ND	mg/kg	0.0020	0.0020	1	5/30/01	5:17	S. Wani	8260B	7065
1,1,2-Trichloroethane	ND	mg/kg	0.0020	0.0020	1	5/30/01	5:17	S. Wani	8260B	7065
Trichloroethene	ND	mg/kg	0.0020	0.0020	1	5/30/01	5:17	S. Wani	8260B	7065
1,2,3-Trichloropropane	ND	mg/kg	0.0020	0.0020	1	5/30/01	5:17	S. Wani	8260B	7065
1,2,4-Trimethylbenzene	ND	mg/kg	0.0020	0.0020	1	5/30/01	5:17	S. Wani	8260B	7065
1,3,5-Trimethylbenzene	ND	mg/kg	0.0020	0.0020	1	5/30/01	5:17	S. Wani	8260B	7065
Vinyl chloride	ND	mg/kg	0.0020	0.0020	1	5/30/01	5:17	S. Wani	8260B	7065
Xylenes, Total	ND	mg/kg	0.0020	0.0020	1	5/30/01	5:17	S. Wani	8260B	7065

'ple report continued . . .

TestAmerica
INCORPORATED

ANALYTICAL REPORT

Laboratory Number: 01-A68606
Sample ID: KB-8 9-10
Project: 2961A

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Date	Time	Analyst	Method	Batch
Bromodichloromethane	ND	mg/kg	0.0020	0.0020	1	5/30/01	5:17	S. Wani	8260B	7065
Trichlorofluoromethane	ND	mg/kg	0.0020	0.0020	1	5/30/01	5:17	S. Wani	8260B	7065
PESTICIDE/PCB's/HERBICIDES										
Aroclor 1016	ND	mg/kg	0.0200	0.0200	1	5/25/01	20:35	M. Cauthen	8082	8363
Aroclor 1221	ND	mg/kg	0.0200	0.0200	1	5/25/01	20:35	M. Cauthen	8082	8363
Aroclor 1232	ND	mg/kg	0.0200	0.0200	1	5/25/01	20:35	M. Cauthen	8082	8363
Aroclor 1242	ND	mg/kg	0.0200	0.0200	1	5/25/01	20:35	M. Cauthen	8082	8363
Aroclor 1248	ND	mg/kg	0.0200	0.0200	1	5/25/01	20:35	M. Cauthen	8082	8363
Aroclor 1254	ND	mg/kg	0.0200	0.0200	1	5/25/01	20:35	M. Cauthen	8082	8363
Aroclor 1260	ND	mg/kg	0.0200	0.0200	1	5/25/01	20:35	M. Cauthen	8082	8363
METALS										
Arsenic	11.8	mg/kg	0.986	0.986	1	5/24/01	16:34	G.McCord	6010B	7298
Barium	146.	mg/kg	0.986	0.986	1	5/24/01	16:34	G.McCord	6010B	7298
Cadmium	ND	mg/kg	0.986	0.986	1	5/24/01	16:34	G.McCord	6010B	7298
Chromium	28.2	mg/kg	0.986	0.986	1	5/24/01	16:34	G.McCord	6010B	7298
Copper	49.7	mg/kg	0.986	0.986	1	5/24/01	16:34	G.McCord	6010B	7298
Lead	29.6	mg/kg	0.986	0.986	1	5/24/01	16:34	G.McCord	6010B	7298
Mercury	ND	mg/kg	0.098	0.098	1	5/24/01	12:44	C. Terry	7471	7307
Selenium	2.56	mg/kg	0.986	0.986	1	5/24/01	16:34	G.McCord	6010B	7298
Silver	ND	mg/kg	0.986	0.986	1	5/24/01	16:34	G.McCord	6010B	7298
pH	8.60	pH units			1	5/25/01	11:45	K.Bundy	9045	7168

ND - Not detected at the report limit.

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Time	Analyst	Method
BNA's	30.4 gm	1.0 ml	5/23/01		J. Rudden	3550

ıple report continued . . .

TestAmerica
INCORPORATED

ANALYTICAL REPORT

Laboratory Number: 01-A68606
Sample ID: KB-8 9-10
Project: 2961A

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Time	Analyst	Method
PCB's	30.4 gm	10.0 ml	5/23/01		J. Rudden	3550

Surrogate	% Recovery	Target Range
surr-1,2-Dichloroethane, d4	97.	50. - 140.
surr-Toluene d8	99.	75. - 141.
surr-4-Bromofluorobenzene	99.	69. - 131.
surr-Dibromofluoromethane	98.	76. - 136.
BNA Surr-Nitrobenzene-d5	74.	26. - 110.
BNA Surr-2-Fluorobiphenyl	85.	28. - 112.
BNA Surr-Terphenyl d14	96.	40. - 124.
BNA Surr-Phenol d5	85.	29. - 121.
BNA Surr-2-Fluorophenol	71.	20. - 113.
BNA Surr-2,4,6-Tribromophenol	98.	29. - 144.
pcb surr-TCMX	92.	23. - 156.
pcb surr-DCB	90.	15. - 130.

- Recovery outside Laboratory historical limits.

All results reported on a wet weight basis.

Sample for pH analysis received outside method prescribed holding time.

ple report continued . . .

TestAmerica
INCORPORATED

ANALYTICAL REPORT

Laboratory Number: 01-A68606
Sample ID: KB-8 9-10
Project: 2961A
Page 7

These results relate only to the items tested.
This report shall not be reproduced except in full and with permission of the laboratory.

Report Approved By: _____ Report Date: 6/ 1/01

Paul E. Lane, Jr., Lab Director
Michael H. Dunn, M.S., Technical Director
Johnny A. Mitchell, Dir. Technical Serv.
Eric S. Smith, Assistant Technical Director
Gail A. Lage, Technical Serv.
Glenn L. Norton, Technical Serv.
Kelly S. Comstock, Technical Serv.
Pamela A. Langford, Technical Serv.

Laboratory Certification Number: AZ0473

nd of Sample Report.

2960 Foster Creighton Drive / Nashville,TN 37204 / 615-726-0177 / Fax: 615-726-0954 / 800-765-0980

TestAmerica
INCORPORATED

ANALYTICAL REPORT

KERAMIDA ENVIRONMENTAL 6028
KRISTEN BELLCREDI
330 N. COLLEGE AVENUE
INDIANAPOLIS, IN 46202

Lab Number: 01-A68607
Sample ID: TRIP BLANK
Sample Type: Groundwater
Site ID:

Date Collected: 5/21/01
Time Collected:
Date Received: 5/23/01
Time Received: 9:00

Project: 2961A
Project Name: FRUEHAUF-PHOENIX
Sampler: B.H.

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
VOLATILE ORGANICS										
Acetone	ND	mg/l	0.0500	0.0500	1	5/25/01	12:40	N. Hurt	8260B	8795
Benzene	ND	mg/l	0.0020	0.0020	1	5/25/01	12:40	N. Hurt	8260B	8795
Bromobenzene	ND	mg/l	0.0020	0.0020	1	5/25/01	12:40	N. Hurt	8260B	8795
Bromochloromethane	ND	mg/l	0.0020	0.0020	1	5/25/01	12:40	N. Hurt	8260B	8795
Bromoform	ND	mg/l	0.0020	0.0020	1	5/25/01	12:40	N. Hurt	8260B	8795
Bromomethane	ND	mg/l	0.0020	0.0020	1	5/25/01	12:40	N. Hurt	8260B	8795
2-Butanone	ND	mg/l	0.0500	0.0500	1	5/25/01	12:40	N. Hurt	8260B	8795
n-Butylbenzene	ND	mg/l	0.0020	0.0020	1	5/25/01	12:40	N. Hurt	8260B	8795
sec-Butylbenzene	ND	mg/l	0.0020	0.0020	1	5/25/01	12:40	N. Hurt	8260B	8795
t-Butylbenzene	ND	mg/l	0.0020	0.0020	1	5/25/01	12:40	N. Hurt	8260B	8795
Carbon disulfide	ND	mg/l	0.0020	0.0020	1	5/25/01	12:40	N. Hurt	8260B	8795
Carbon tetrachloride	ND	mg/l	0.0020	0.0020	1	5/25/01	12:40	N. Hurt	8260B	8795
Chlorobenzene	ND	mg/l	0.0020	0.0020	1	5/25/01	12:40	N. Hurt	8260B	8795
Chloroethane	ND	mg/l	0.0020	0.0020	1	5/25/01	12:40	N. Hurt	8260B	8795
Chloroform	ND	mg/l	0.0020	0.0020	1	5/25/01	12:40	N. Hurt	8260B	8795
Chloromethane	ND	mg/l	0.0020	0.0020	1	5/25/01	12:40	N. Hurt	8260B	8795
2-Chlorotoluene	ND	mg/l	0.0020	0.0020	1	5/25/01	12:40	N. Hurt	8260B	8795
4-Chlorotoluene	ND	mg/l	0.0020	0.0020	1	5/25/01	12:40	N. Hurt	8260B	8795
1,2-Dibromo-3-chloropropane	ND	mg/l	0.0100	0.0100	1	5/25/01	12:40	N. Hurt	8260B	8795
Dibromochloromethane	ND	mg/l	0.0020	0.0020	1	5/25/01	12:40	N. Hurt	8260B	8795
1,2-Dibromoethane	ND	mg/l	0.0020	0.0020	1	5/25/01	12:40	N. Hurt	8260B	8795
Dibromomethane	ND	mg/l	0.0020	0.0020	1	5/25/01	12:40	N. Hurt	8260B	8795
1,2-Dichlorobenzene	ND	mg/l	0.0020	0.0020	1	5/25/01	12:40	N. Hurt	8260B	8795
1,3-Dichlorobenzene	ND	mg/l	0.0020	0.0020	1	5/25/01	12:40	N. Hurt	8260B	8795
1,4-Dichlorobenzene	ND	mg/l	0.0020	0.0020	1	5/25/01	12:40	N. Hurt	8260B	8795
Dichlorodifluoromethane	ND	mg/l	0.0020	0.0020	1	5/25/01	12:40	N. Hurt	8260B	8795
1,1-Dichloroethane	ND	mg/l	0.0020	0.0020	1	5/25/01	12:40	N. Hurt	8260B	8795

ıple report continued . . .

TestAmerica
INCORPORATED

ANALYTICAL REPORT

Laboratory Number: 01-A68607
Sample ID: TRIP BLANK
Project: 2961A
Page 2

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
1,2-Dichloroethane	ND	mg/l	0.0020	0.0020	1	5/25/01	12:40	N. Hurt	8260B	8795
1,1-Dichloroethene	ND	mg/l	0.0020	0.0020	1	5/25/01	12:40	N. Hurt	8260B	8795
cis-1,2-Dichloroethene	ND	mg/l	0.0020	0.0020	1	5/25/01	12:40	N. Hurt	8260B	8795
trans-1,2-Dichloroethene	ND	mg/l	0.0020	0.0020	1	5/25/01	12:40	N. Hurt	8260B	8795
1,2-Dichloropropane	ND	mg/l	0.0020	0.0020	1	5/25/01	12:40	N. Hurt	8260B	8795
1,3-Dichloropropane	ND	mg/l	0.0020	0.0020	1	5/25/01	12:40	N. Hurt	8260B	8795
2,2-Dichloropropane	ND	mg/l	0.0020	0.0020	1	5/25/01	12:40	N. Hurt	8260B	8795
1,1-Dichloropropene	ND	mg/l	0.0020	0.0020	1	5/25/01	12:40	N. Hurt	8260B	8795
cis-1,3-Dichloropropene	ND	mg/l	0.0020	0.0020	1	5/25/01	12:40	N. Hurt	8260B	8795
trans-1,3-Dichloropropene	ND	mg/l	0.0020	0.0020	1	5/25/01	12:40	N. Hurt	8260B	8795
Ethylbenzene	ND	mg/l	0.0020	0.0020	1	5/25/01	12:40	N. Hurt	8260B	8795
Hexachlorobutadiene	ND	mg/l	0.0020	0.0020	1	5/25/01	12:40	N. Hurt	8260B	8795
2-Hexanone	ND	mg/l	0.0100	0.0100	1	5/25/01	12:40	N. Hurt	8260B	8795
Isopropylbenzene	ND	mg/l	0.0020	0.0020	1	5/25/01	12:40	N. Hurt	8260B	8795
4-Isopropyltoluene	ND	mg/l	0.0020	0.0020	1	5/25/01	12:40	N. Hurt	8260B	8795
4-Methyl-2-pentanone	ND	mg/l	0.0100	0.0100	1	5/25/01	12:40	N. Hurt	8260B	8795
Methylene chloride	ND	mg/l	0.0050	0.0050	1	5/25/01	12:40	N. Hurt	8260B	8795
Naphthalene	ND	mg/l	0.0050	0.0050	1	5/25/01	12:40	N. Hurt	8260B	8795
n-Propylbenzene	ND	mg/l	0.0020	0.0020	1	5/25/01	12:40	N. Hurt	8260B	8795
Styrene	ND	mg/l	0.0020	0.0020	1	5/25/01	12:40	N. Hurt	8260B	8795
1,1,1,2-Tetrachloroethane	ND	mg/l	0.0020	0.0020	1	5/25/01	12:40	N. Hurt	8260B	8795
1,1,2,2-Tetrachloroethane	ND	mg/l	0.0020	0.0020	1	5/25/01	12:40	N. Hurt	8260B	8795
Tetrachloroethene	ND	mg/l	0.0020	0.0020	1	5/25/01	12:40	N. Hurt	8260B	8795
Toluene	ND	mg/l	0.0020	0.0020	1	5/25/01	12:40	N. Hurt	8260B	8795
1,2,3-Trichlorobenzene	ND	mg/l	0.0020	0.0020	1	5/25/01	12:40	N. Hurt	8260B	8795
1,2,4-Trichlorobenzene	ND	mg/l	0.0020	0.0020	1	5/25/01	12:40	N. Hurt	8260B	8795
1,1,1-Trichloroethane	ND	mg/l	0.0020	0.0020	1	5/25/01	12:40	N. Hurt	8260B	8795
1,1,2-Trichloroethane	ND	mg/l	0.0020	0.0020	1	5/25/01	12:40	N. Hurt	8260B	8795
Trichloroethene	ND	mg/l	0.0020	0.0020	1	5/25/01	12:40	N. Hurt	8260B	8795
1,2,3-Trichloropropane	ND	mg/l	0.0020	0.0020	1	5/25/01	12:40	N. Hurt	8260B	8795
1,2,4-Trimethylbenzene	ND	mg/l	0.0020	0.0020	1	5/25/01	12:40	N. Hurt	8260B	8795
1,3,5-Trimethylbenzene	ND	mg/l	0.0020	0.0020	1	5/25/01	12:40	N. Hurt	8260B	8795
Vinyl chloride	ND	mg/l	0.0020	0.0020	1	5/25/01	12:40	N. Hurt	8260B	8795
Xylenes, Total	ND	mg/l	0.0020	0.0020	1	5/25/01	12:40	N. Hurt	8260B	8795
Bromodichloromethane	ND	mg/l	0.0020	0.0020	1	5/25/01	12:40	N. Hurt	8260B	8795
Trichlorofluoromethane	ND	mg/l	0.0020	0.0020	1	5/25/01	12:40	N. Hurt	8260B	8795

ple report continued . . .

TestAmerica
INCORPORATED

ANALYTICAL REPORT

Laboratory Number: 01-A68607
Sample ID: TRIP BLANK
Project: 2961A

TCLP Results

Analyte	Result	Units	Reg Limit	Matrix Spike Recovery (%)	Date	Method

ND - Not detected at the report limit.

Surrogate	% Recovery	Target Range
VOA Surr, 1,2-DCA, d4	106.	68. - 143.
VOA Surr, Toluene d8	111.	78. - 127.
VOA Surr, 4-BFB	103.	73. - 127.
VOA Surr, DBFM	109.	76. - 135.

- Recovery outside Laboratory historical limits.

All results reported on a wet weight basis.

These results relate only to the items tested.
This report shall not be reproduced except in full and with permission of the laboratory.

Report Approved By: _____ Report Date: 6/ 1/01

Paul E. Lane, Jr., Lab Director
Michael H. Dunn, M.S., Technical Director
Johnny A. Mitchell, Dir. Technical Serv.
Eric S. Smith, Assistant Technical Director
Gail A. Lage, Technical Serv.
Glenn L. Norton, Technical Serv.
Kelly S. Comstock, Technical Serv.
Pamela A. Langford, Technical Serv.

Laboratory Certification Number: AZ0473

nd of Sample Report.

2960 Foster Creighton Drive / Nashville,TN 37204 / 615-726-0177 / Fax: 615-726-0954 / 800-765-0980

KERAMIDA ENVIRONMENTAL, INC.
330 North College Avenue
Indianapolis, Indiana 46202
(317) 685-6600 - FAX (317) 685-6610

CHAIN OF CUSTODY RECORD

Sheet 1 of 1

238472 6026

Project No.: 2961A
Project Name: Fruehauf - Phoenix
Report to: Rita Boje
Client: Wabash National
Samplers: (signature)
Sampled By: KERAMIDA Environmental, Inc.

Sample ID/Description	Date	Time	Comp	Grab	HCl	NaOH	HNO_3	H_2SO_4	Other	VOCs 8260	SVOCs 8270	PCBs 8082	RCRA(8) metals	Copper	pH	MATRIX (SW, GW, WW, Soil, Air, Waste Oil)	QA/QC Level	Detection Level	Comments
KB-1 (0.5-1.5')	5/21/01	1005		X					2	X	X	X	X	X	X	Soil	II	Arizona	68595
KB-1 (12-13.5')		1130		X					2	X	X	X	X	X	X			UST/RCRA	96
KB-2 (4-4.5')		1215		X					2	X	X	X	X	X	X				97
KB-2 (21-21.5')		1370		X					2	X	X	X	X	X	X				98
KB-3 (0.5-1.5')		1435		X					2	X	X	X	X	X	X				68599
KB-3 (10.5-12')		1515		X					2	X	X	X	X	X	X				68600
KB-4 (0-1.5')	5/22/01	0740		X					2	X	X	X	X	X	X				68601
KB-4 (10.5-11.5')		0845		X					2	X	X	X	X	X	X				68602
		1100		X					2	X	X		X		X				run PCBs
									2	X	X		X		X				68603
																			"Hold"
																			68604
																			65

TestAmerica
INCORPORATED

COOLER RECEIPT FORM

Client: Keramida Env. BC# 238472

Cooler Received On: 5-23-01 And Opened On: 5-23-01 By: CRAIG COTHRON

(Signature)

1. Temperature of Cooler when opened 3.0 DEGREES C
2. Were custody seals on outside of cooler and intact?.....YES NO
   a. If yes,what kind and where: TAPE
   b. Were the signature and date correct?.....YES NO
3. Were custody seals on containers intact?.....YES NO
4. Were custody papers inside cooler?.....YES NO
5. Were custody papers properly filled out (ink,signed,etc)?.....YES NO
6. Did you sign the custody papers in the appropriate place?.....YES NO
7. What kind of packing material used? Bubblewrap Peanuts Other None
8. Was sufficient ice used (if appropriate)?.....YES NO
9. Did all bottles arrive in good condition(unbroken)?.....YES NO
10. Were all bottle labels complete (#,date,signed,pres,etc)?.....YES NO
11. Did all bottle labels and tags agree with custody papers?.....YES NO
12. Were correct bottles used for the analysis requested?.....YES NO
13. If present, was any observable voa headspace present?.....YES NO
14. If present, were VOA vials checked for absence of air bubbles and noted if found?....YES NO
15. Was sufficient amount of sample sent in each bottle?.....YES NO
16. Were correct preservatives used?.....YES NO
17. Was residual chlorine present (if appropriate)?.....YES NO
18. Corrective action taken, if necessary:
    a. Name of person contacted: SEE ATTACHED FOR RESOLUTION IF NEEDED
    b. Date:_____

2960 Foster Creighton Drive / Nashville,TN 37204 / 615-726-0177 / Fax: 615-726-0954 / 800-765-0980

KERAMIDA ENVIRONMENTAL, INC.
330 North College Avenue
Indianapolis, Indiana 46202
(317) 685-6600 - FAX (317) 685-6610

CHAIN OF CUSTODY RECORD

Sheet 1 of 1

238472 6028

Project No.	Project Name	Report to:
2961A	Fruehauf - Phoenix	Rita Boje

Client: Wabash National

Samplers: (signature)

Sampled By: KERAMIDA Environmental, Inc.

Sample ID/Description	Date	Time	Comp	Grab	# and Type of Containers: HCl	NaOH	HNO_3	H_2SO_4	Other	Analyses: VOCs 8260	SVOCs 8270	PCBs 8082	RCRA (8) metals	Copper	pH	MATRIX SW GW WW Soil Air Waste Oil	QA/QC Level	Detection Level	Comments
KB-1 (0.5-1.5')	5/21/01	1005		X					2	X	X	X	X	X	X	Soil	II	Arizona	68595
KB-1 (12-13.5')		1130		X					2	X	X	X	X	X	X			UST/RCRA	96
KB-2 (4-4.5')		1215		X					2	X	X	X	X	X	X				97
KB-2 (21-21.5')		1330		X					2	X	X	X	X	X	X				98
KB-3 (0.5-1.5')		1435		X					2	X	X	X	X	X	X				68599
KB-3 (10.5-12')		1515		X					2	X	X	X	X	X	X				68600
KB-4 (0-1.5')	5/22/01	0740		X					2	X	X	X	X	X	X				68601
KB-4 (10.5-11.5)		0845		X					2	X	X	X	X	X	X			68602	Run PCBs
KB-5 (0-1.5')		1100		X					2	X	X		X		X				68603
KB-5 (7.5-9)		1130		X					2										"Hold"
KB-5 (10.5-11.5)		1140		X					2	X	X		X		X				68604
KB-8 (0.5-1.5')		0920		X					2	X	X	X	X	X	X				05
KB-8 (9-10')		1000		X					2	X	X	X	X	X	X				06
Trip	5/21/01				3					X						Water			68607

Relinquished by: Sign/Date/Time	Received by: Sign/Date/Time	Relinquished by: Sign/Date/Time	Received for Lab: Sign/Date/Time
5/22/01 1449 PT			
Relinquished by: Sign/Date/Time	Received by: Sign/Date/Time	Relinquished by: Sign/Date/Time	Received for Lab: Sign/Date/Time
			5/23/01 900

Remarks:
Shipped Via Fed EX

1) No method substitution will be performed by the laboratory without KERAMIDA authorization
2) Please notify KERAMIDA immediately upon receipt, if sample integrity is in question
3) If analysis cannot be conducted within required holding times, please notify KERAMIDA immediately
4) If requested detection lmits cannot be achieved, please contact KERAMIDA immediately

Project Quote No: 0516 01310399

Sample Condition:
Bottle Intact? Yes/No
Field Filtered? Yes/No
COC Seals Present & Intact? Yes/No
VOC Free of Headspace? Yes/No
VOC Preserved? Yes/No
Temperature upon Receipt:

TestAmerica
INCORPORATED

COOLER RECEIPT FORM

Client: Keramida Env. BC# 238472

Cooler Received On: 5-23-01 And Opened On: 5-23-01 By: CRAIG COTHRON

(Signature)

1. Temperature of Cooler when opened 3.0 DEGREES C
2. Were custody seals on outside of cooler and intact?.....YES NO
   a. If yes,what kind and where: TAPE
   b. Were the signature and date correct?.....YES NO
3. Were custody seals on containers intact?.....YES NO
4. Were custody papers inside cooler?.....YES NO
5. Were custody papers properly filled out (ink,signed,etc)?.....YES NO
6. Did you sign the custody papers in the appropriate place?.....YES NO
7. What kind of packing material used? Bubblewrap Peanuts Other None
8. Was sufficient ice used (if appropriate)?.....YES NO
9. Did all bottles arrive in good condition(unbroken)?.....YES NO
10. Were all bottle labels complete (#,date,signed,pres,etc)?.....YES NO
11. Did all bottle labels and tags agree with custody papers?.....YES NO
12. Were correct bottles used for the analysis requested?.....YES NO
13. If present, was any observable voa headspace present?.....YES NO
14. If present, were VOA vials checked for absence of air bubbles and noted if found?....YES NO
15. Was sufficient amount of sample sent in each bottle?.....YES NO
16. Were correct preservatives used?.....YES NO
17. Was residual chlorine present (if appropriate)?.....YES NO
18. Corrective action taken, if necessary:
    a. Name of person contacted: SEE ATTACHED FOR RESOLUTION IF NEEDED
    b. Date:_____

2960 Foster Creighton Drive / Nashville,TN 37204 / 615-726-0177 / Fax: 615-726-0954 / 800-765-0980

TestAmerica
INCORPORATED

ANALYTICAL REPORT

KERAMIDA ENVIRONMENTAL 6028
KRISTEN BELLCREDI
330 N. COLLEGE AVENUE
INDIANAPOLIS, IN 46202

Lab Number: 01-A70083
Sample ID: KSS 0-6
Sample Type: Soil
Site ID:

Project: 2961A
Project Name: FRUEHAUF-PHOENIX
Sampler: B.H.

Date Collected: 5/24/01
Time Collected: 8:20
Date Received: 5/25/01
Time Received: 9:00

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Date	Time	Analyst	Method	Batch
EXTRACTABLE ORGANICS										
Acenaphthene	ND	mg/kg	33.0	0.330	20	5/31/01	15:22	Jeanmarie	8270C	1491
Acenaphthylene	ND	mg/kg	33.0	0.330	20	5/31/01	15:22	Jeanmarie	8270C	1491
Anthracene	ND	mg/kg	33.0	0.330	20	5/31/01	15:22	Jeanmarie	8270C	1491
Benzo(a)anthracene	ND	mg/kg	33.0	0.330	20	5/31/01	15:22	Jeanmarie	8270C	1491
Benzo(a)pyrene	ND	mg/kg	33.0	0.330	20	5/31/01	15:22	Jeanmarie	8270C	1491
Benzo(b)fluoranthene	ND	mg/kg	33.0	0.330	20	5/31/01	15:22	Jeanmarie	8270C	1491
Benzo(g,h,i)perylene	ND	mg/kg	33.0	0.330	20	5/31/01	15:22	Jeanmarie	8270C	1491
Benzo(k)fluoranthene	ND	mg/kg	33.0	0.330	20	5/31/01	15:22	Jeanmarie	8270C	1491
4-Bromophenylphenylether	ND	mg/kg	33.0	0.330	20	5/31/01	15:22	Jeanmarie	8270C	1491
Butylbenzylphthalate	ND	mg/kg	33.0	0.330	20	5/31/01	15:22	Jeanmarie	8270C	1491
Carbazole	ND	mg/kg	33.0	0.330	20	5/31/01	15:22	Jeanmarie	8270C	1491
4-Chloro-3-methylphenol	ND	mg/kg	33.0	0.330	20	5/31/01	15:22	Jeanmarie	8270C	1491
4-Chloroaniline	ND	mg/kg	33.0	0.330	20	5/31/01	15:22	Jeanmarie	8270C	1491
bis(2-Chloroethoxy)methane	ND	mg/kg	33.0	0.333	20	5/31/01	15:22	Jeanmarie	8270C	1491
bis(2-Chloroethyl)ether	ND	mg/kg	33.0	0.333	20	5/31/01	15:22	Jeanmarie	8270C	1491
bis(2-Chloroisopropyl)ether	ND	mg/kg	33.0	0.333	20	5/31/01	15:22	Jeanmarie	8270C	1491
2-Chloronaphthalene	ND	mg/kg	33.0	0.333	20	5/31/01	15:22	Jeanmarie	8270C	1491
2-Chlorophenol	ND	mg/kg	33.0	0.333	20	5/31/01	15:22	Jeanmarie	8270C	1491
4-Chlorophenylphenylether	ND	mg/kg	33.0	0.333	20	5/31/01	15:22	Jeanmarie	8270C	1491
Chrysene	ND	mg/kg	33.0	0.333	20	5/31/01	15:22	Jeanmarie	8270C	1491
Dibenzofuran	ND	mg/kg	33.0	0.333	20	5/31/01	15:22	Jeanmarie	8270C	1491
Dibenz(a,h)anthracene	ND	mg/kg	33.0	0.333	20	5/31/01	15:22	Jeanmarie	8270C	1491
1,2-Dichlorobenzene	ND	mg/kg	33.0	0.333	20	5/31/01	15:22	Jeanmarie	8270C	1491
1,3-Dichlorobenzene	ND	mg/kg	33.0	0.333	20	5/31/01	15:22	Jeanmarie	8270C	1491
1,4-Dichlorobenzene	ND	mg/kg	33.0	0.333	20	5/31/01	15:22	Jeanmarie	8270C	1491

nple report continued . . .

TestAmerica
INCORPORATED

ANALYTICAL REPORT

Laboratory Number: 01-A70083
Sample ID: KSS 0-6
Project: 2961A
Page 2

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Date	Time	Analyst	Method	Batch
3,3'-Dichlorobenzidine	ND	mg/kg	33.0	0.330	20	5/31/01	15:22	Jeanmarie	8270C	1491
2,4-Dichlorophenol	ND	mg/kg	33.0	0.333	20	5/31/01	15:22	Jeanmarie	8270C	1491
Diethylphthalate	ND	mg/kg	33.0	0.333	20	5/31/01	15:22	Jeanmarie	8270C	1491
2,4-Dimethylphenol	ND	mg/kg	33.0	0.333	20	5/31/01	15:22	Jeanmarie	8270C	1491
Dimethylphthalate	ND	mg/kg	33.0	0.333	20	5/31/01	15:22	Jeanmarie	8270C	1491
Di-n-butylphthalate	ND	mg/kg	33.0	0.333	20	5/31/01	15:22	Jeanmarie	8270C	1491
4,6-Dinitro-2-methylphenol	ND	mg/kg	33.0	0.330	20	5/31/01	15:22	Jeanmarie	8270C	1491
2,4-Dinitrophenol	ND	mg/kg	33.0	0.330	20	5/31/01	15:22	Jeanmarie	8270C	1491
2,4-dinitrotoluene	ND	mg/kg	33.0	0.333	20	5/31/01	15:22	Jeanmarie	8270C	1491
2,6-Dinitrotoluene	ND	mg/kg	33.0	0.333	20	5/31/01	15:22	Jeanmarie	8270C	1491
Di-n-octylphthalate	ND	mg/kg	33.0	0.333	20	5/31/01	15:22	Jeanmarie	8270C	1491
Fluoranthene	ND	mg/kg	33.0	0.333	20	5/31/01	15:22	Jeanmarie	8270C	1491
Fluorene	ND	mg/kg	33.0	0.333	20	5/31/01	15:22	Jeanmarie	8270C	1491
Hexachlorobenzene	ND	mg/kg	33.0	0.333	20	5/31/01	15:22	Jeanmarie	8270C	1491
Hexachlorobutadiene	ND	mg/kg	33.0	0.333	20	5/31/01	15:22	Jeanmarie	8270C	1491
Hexachlorocyclopentadiene	ND	mg/kg	33.0	0.333	20	5/31/01	15:22	Jeanmarie	8270C	1491
Hexachloroethane	ND	mg/kg	33.0	0.333	20	5/31/01	15:22	Jeanmarie	8270C	1491
Indeno(1,2,3-cd)pyrene	ND	mg/kg	33.0	0.333	20	5/31/01	15:22	Jeanmarie	8270C	1491
Isophorone	ND	mg/kg	33.0	0.333	20	5/31/01	15:22	Jeanmarie	8270C	1491
2-Methylnaphthalene	ND	mg/kg	33.0	0.333	20	5/31/01	15:22	Jeanmarie	8270C	1491
2-Methylphenol	ND	mg/kg	33.0	0.333	20	5/31/01	15:22	Jeanmarie	8270C	1491
m,p-Methylphenol	ND	mg/kg	33.0	0.333	20	5/31/01	15:22	Jeanmarie	8270C	1491
Naphthalene	ND	mg/kg	33.0	0.333	20	5/31/01	15:22	Jeanmarie	8270C	1491
2-Nitroaniline	ND	mg/kg	33.0	0.330	20	5/31/01	15:22	Jeanmarie	8270C	1491
3-Nitroaniline	ND	mg/kg	33.0	0.330	20	5/31/01	15:22	Jeanmarie	8270C	1491
4-Nitroaniline	ND	mg/kg	33.0	0.330	20	5/31/01	15:22	Jeanmarie	8270C	1491
Nitrobenzene	ND	mg/kg	33.0	0.333	20	5/31/01	15:22	Jeanmarie	8270C	1491
2-Nitrophenol	ND	mg/kg	33.0	0.333	20	5/31/01	15:22	Jeanmarie	8270C	1491
4-Nitrophenol	ND	mg/kg	33.0	0.330	20	5/31/01	15:22	Jeanmarie	8270C	1491
N-nitrosodi-n-propylamine	ND	mg/kg	33.0	0.333	20	5/31/01	15:22	Jeanmarie	8270C	1491
N-nitrosodiphenylamine	ND	mg/kg	33.0	0.333	20	5/31/01	15:22	Jeanmarie	8270C	1491
Pentachlorophenol	ND	mg/kg	33.0	0.330	20	5/31/01	15:22	Jeanmarie	8270C	1491
Phenanthrene	ND	mg/kg	33.0	0.333	20	5/31/01	15:22	Jeanmarie	8270C	1491
Phenol	ND	mg/kg	33.0	0.333	20	5/31/01	15:22	Jeanmarie	8270C	1491

ımple report continued . . .

TestAmerica
INCORPORATED

ANALYTICAL REPORT

Laboratory Number: 01-A70083
Sample ID: KSS 0-6
Project: 2961A
Page 3

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Date	Time	Analyst	Method	Batch
Pyrene	ND	mg/kg	33.0	0.333	20	5/31/01	15:22	Jeanmarie	8270C	1491
Bis(2-ethylhexyl)phthalate	ND	mg/kg	33.0	0.333	20	5/31/01	15:22	Jeanmarie	8270C	1491
1,2,4-Trichlorobenzene	ND	mg/kg	33.0	0.333	20	5/31/01	15:22	Jeanmarie	8270C	1491
2,4,5-Trichlorophenol	ND	mg/kg	33.0	0.330	20	5/31/01	15:22	Jeanmarie	8270C	1491
2,4,6-Trichlorophenol	ND	mg/kg	33.0	0.333	20	5/31/01	15:22	Jeanmarie	8270C	1491
VOLATILE ORGANICS										
Acetone	ND	mg/kg	2.500	0.0500	50	6/ 3/01	21:52	C. Wani	8260B	4109
Benzene	ND	mg/kg	0.1000	0.0020	50	6/ 3/01	21:52	C. Wani	8260B	4109
Bromobenzene	ND	mg/kg	0.1000	0.0020	50	6/ 3/01	21:52	C. Wani	8260B	4109
Bromochloromethane	ND	mg/kg	0.1000	0.0020	50	6/ 3/01	21:52	C. Wani	8260B	4109
Bromoform	ND	mg/kg	0.1000	0.0020	50	6/ 3/01	21:52	C. Wani	8260B	4109
Bromomethane	ND	mg/kg	0.1000	0.0100	50	6/ 3/01	21:52	C. Wani	8260B	4109
2-Butanone	ND	mg/kg	2.500	0.0500	50	6/ 3/01	21:52	C. Wani	8260B	4109
n-Butylbenzene	ND	mg/kg	0.1000	0.0020	50	6/ 3/01	21:52	C. Wani	8260B	4109
sec-Butylbenzene	ND	mg/kg	0.1000	0.0020	50	6/ 3/01	21:52	C. Wani	8260B	4109
t-Butylbenzene	ND	mg/kg	0.1000	0.0020	50	6/ 3/01	21:52	C. Wani	8260B	4109
Carbon disulfide	ND	mg/kg	0.1000	0.0020	50	6/ 3/01	21:52	C. Wani	8260B	4109
Carbon tetrachloride	ND	mg/kg	0.1000	0.0020	50	6/ 3/01	21:52	C. Wani	8260B	4109
Chlorobenzene	ND	mg/kg	0.1000	0.0020	50	6/ 3/01	21:52	C. Wani	8260B	4109
Chloroethane	ND	mg/kg	0.1000	0.0020	50	6/ 3/01	21:52	C. Wani	8260B	4109
Chloroform	ND	mg/kg	0.1000	0.0020	50	6/ 3/01	21:52	C. Wani	8260B	4109
Chloromethane	ND	mg/kg	0.1000	0.0100	50	6/ 3/01	21:52	C. Wani	8260B	4109
2-Chlorotoluene	ND	mg/kg	0.1000	0.0020	50	6/ 3/01	21:52	C. Wani	8260B	4109
4-Chlorotoluene	ND	mg/kg	0.1000	0.0020	50	6/ 3/01	21:52	C. Wani	8260B	4109
1,2-Dibromo-3-chloropropane	ND	mg/kg	0.5000	0.0100	50	6/ 3/01	21:52	C. Wani	8260B	4109
Dibromochloromethane	ND	mg/kg	0.1000	0.0020	50	6/ 3/01	21:52	C. Wani	8260B	4109
1,2-Dibromoethane	ND	mg/kg	0.1000	0.0020	50	6/ 3/01	21:52	C. Wani	8260B	4109
Dibromomethane	ND	mg/kg	0.1000	0.0020	50	6/ 3/01	21:52	C. Wani	8260B	4109
1,2-Dichlorobenzene	ND	mg/kg	0.1000	0.0020	50	6/ 3/01	21:52	C. Wani	8260B	4109
1,3-Dichlorobenzene	ND	mg/kg	0.1000	0.0020	50	6/ 3/01	21:52	C. Wani	8260B	4109
1,4-Dichlorobenzene	ND	mg/kg	0.1000	0.0020	50	6/ 3/01	21:52	C. Wani	8260B	4109
Dichlorodifluoromethane	ND	mg/kg	0.1000	0.0020	50	6/ 3/01	21:52	C. Wani	8260B	4109
1,1-Dichloroethane	ND	mg/kg	0.1000	0.0020	50	6/ 3/01	21:52	C. Wani	8260B	4109

ple report continued . . .

TestAmerica
INCORPORATED

ANALYTICAL REPORT

Laboratory Number: 01-A70083
Sample ID: KSS 0-6
Project: 2961A
Page 4

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Date	Time	Analyst	Method	Batch
1,2-Dichloroethane	ND	mg/kg	0.1000	0.0020	50	6/ 3/01	21:52	C. Wani	8260B	4109
1,1-Dichloroethene	ND	mg/kg	0.1000	0.0020	50	6/ 3/01	21:52	C. Wani	8260B	4109
cis-1,2-Dichloroethene	ND	mg/kg	0.1000	0.0020	50	6/ 3/01	21:52	C. Wani	8260B	4109
trans-1,2-Dichloroethene	ND	mg/kg	0.1000	0.0020	50	6/ 3/01	21:52	C. Wani	8260B	4109
1,2-Dichloropropane	ND	mg/kg	0.1000	0.0020	50	6/ 3/01	21:52	C. Wani	8260B	4109
1,3-Dichloropropane	ND	mg/kg	0.1000	0.0020	50	6/ 3/01	21:52	C. Wani	8260B	4109
2,2-Dichloropropane	ND	mg/kg	0.1000	0.0020	50	6/ 3/01	21:52	C. Wani	8260B	4109
1,1-Dichloropropene	ND	mg/kg	0.1000	0.0020	50	6/ 3/01	21:52	C. Wani	8260B	4109
cis-1,3-Dichloropropene	ND	mg/kg	0.1000	0.0020	50	6/ 3/01	21:52	C. Wani	8260B	4109
trans-1,3-Dichloropropene	ND	mg/kg	0.1000	0.0020	50	6/ 3/01	21:52	C. Wani	8260B	4109
Ethylbenzene	ND	mg/kg	0.1000	0.0020	50	6/ 3/01	21:52	C. Wani	8260B	4109
Hexachlorobutadiene	ND	mg/kg	0.1000	0.0020	50	6/ 3/01	21:52	C. Wani	8260B	4109
2-Hexanone	ND	mg/kg	0.5000	0.0100	50	6/ 3/01	21:52	C. Wani	8260B	4109
Isopropylbenzene	ND	mg/kg	0.1000	0.0020	50	6/ 3/01	21:52	C. Wani	8260B	4109
4-Isopropyltoluene	ND	mg/kg	0.1000	0.0020	50	6/ 3/01	21:52	C. Wani	8260B	4109
4-Methyl-2-pentanone	ND	mg/kg	0.5000	0.0100	50	6/ 3/01	21:52	C. Wani	8260B	4109
Methylene chloride	ND	mg/kg	0.2500	0.0100	50	6/ 3/01	21:52	C. Wani	8260B	4109
Naphthalene	ND	mg/kg	0.2500	0.0050	50	6/ 3/01	21:52	C. Wani	8260B	4109
n-Propylbenzene	ND	mg/kg	0.1000	0.0020	50	6/ 3/01	21:52	C. Wani	8260B	4109
Styrene	ND	mg/kg	0.1000	0.0020	50	6/ 3/01	21:52	C. Wani	8260B	4109
1,1,1,2-Tetrachloroethane	ND	mg/kg	0.1000	0.0020	50	6/ 3/01	21:52	C. Wani	8260B	4109
1,1,2,2-Tetrachloroethane	ND	mg/kg	0.1000	0.0020	50	6/ 3/01	21:52	C. Wani	8260B	4109
Tetrachloroethene	ND	mg/kg	0.1000	0.0020	50	6/ 3/01	21:52	C. Wani	8260B	4109
Toluene	ND	mg/kg	0.1000	0.0020	50	6/ 3/01	21:52	C. Wani	8260B	4109
1,2,3-Trichlorobenzene	ND	mg/kg	0.1000	0.0020	50	6/ 3/01	21:52	C. Wani	8260B	4109
1,2,4-Trichlorobenzene	ND	mg/kg	0.1000	0.0020	50	6/ 3/01	21:52	C. Wani	8260B	4109
1,1,1-Trichloroethane	ND	mg/kg	0.1000	0.0020	50	6/ 3/01	21:52	C. Wani	8260B	4109
1,1,2-Trichloroethane	ND	mg/kg	0.1000	0.0020	50	6/ 3/01	21:52	C. Wani	8260B	4109
Trichloroethene	ND	mg/kg	0.1000	0.0020	50	6/ 3/01	21:52	C. Wani	8260B	4109
1,2,3-Trichloropropane	ND	mg/kg	0.1000	0.0020	50	6/ 3/01	21:52	C. Wani	8260B	4109
1,2,4-Trimethylbenzene	0.9400	mg/kg	0.1000	0.0020	50	6/ 3/01	21:52	C. Wani	8260B	4109
1,3,5-Trimethylbenzene	0.5100	mg/kg	0.1000	0.0020	50	6/ 3/01	21:52	C. Wani	8260B	4109
Vinyl chloride	ND	mg/kg	0.1000	0.0020	50	6/ 3/01	21:52	C. Wani	8260B	4109
Xylenes, Total	ND	mg/kg	0.1000	0.0020	50	6/ 3/01	21:52	C. Wani	8260B	4109

mple report continued . . .

TestAmerica
INCORPORATED

ANALYTICAL REPORT

Laboratory Number: 01-A70083
Sample ID: KSS 0-6
Project: 2961A

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Date	Time	Analyst	Method	Batch
Bromodichloromethane	ND	mg/kg	0.1000	0.0020	50	6/ 3/01	21:52	C. Wani	8260B	4109
Trichlorofluoromethane	ND	mg/kg	0.1000	0.0020	50	6/ 3/01	21:52	C. Wani	8260B	4109
PESTICIDE/PCB's/HERBICIDES										
Aroclor 1016	ND	mg/kg	0.0200	0.0200	1	5/31/01	0:24	M. Cauthen	8082	660
Aroclor 1221	ND	mg/kg	0.0200	0.0200	1	5/31/01	0:24	M. Cauthen	8082	660
Aroclor 1232	ND	mg/kg	0.0200	0.0200	1	5/31/01	0:24	M. Cauthen	8082	660
Aroclor 1242	ND	mg/kg	0.0200	0.0200	1	5/31/01	0:24	M. Cauthen	8082	660
Aroclor 1248	ND	mg/kg	0.0200	0.0200	1	5/31/01	0:24	M. Cauthen	8082	660
Aroclor 1254	ND	mg/kg	0.0200	0.0200	1	5/31/01	0:24	M. Cauthen	8082	660
Aroclor 1260	ND	mg/kg	0.0200	0.0200	1	5/31/01	0:24	M. Cauthen	8082	660
METALS										
Arsenic	16.9	mg/kg	0.994	0.994	1	5/31/01	8:38	Rob Hunt	6010B	9326
Barium	176.	mg/kg	0.994	0.994	1	5/31/01	8:38	Rob Hunt	6010B	9326
Cadmium	3.78	mg/kg	0.994	0.994	1	5/31/01	8:38	Rob Hunt	6010B	9326
Chromium	33.8	mg/kg	0.994	0.994	1	5/31/01	8:38	Rob Hunt	6010B	9326
Copper	6640	mg/kg	9.94	1.00	10	5/31/01	8:38	Rob Hunt	6010B	9326
Lead	87.1	mg/kg	0.994	0.994	1	5/31/01	8:38	Rob Hunt	6010B	9326
Mercury	ND	mg/kg	0.100	0.100	1	5/29/01	9:49	C. Terry	7471	9321
Selenium	3.78	mg/kg	0.994	0.994	1	5/31/01	8:38	Rob Hunt	6010B	9326
Silver	2.58	mg/kg	0.994	0.994	1	5/31/01	8:38	Rob Hunt	6010B	9326

Semi-volatile sample diluted due to sample matrix.
Semi-volatile surrogates diluted out due to sample matrix.

pH	6.40	pH units			1	5/29/01	17:37	J Campbell	9045	8783

ND - Not detected at the report limit.

mple report continued . . .

TestAmerica
INCORPORATED

ANALYTICAL REPORT

Laboratory Number: 01-A70083
Sample ID: KSS 0-6
Project: 2961A

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Time	Analyst	Method
BNA's	30.3 gm	5.0 ml	5/29/01		J. Rudden	3550
PCB's	30.3 gm	10.0 ml	5/28/01		D.Yeager	3550

Surrogate	% Recovery	Target Range
surr-1,2-Dichloroethane, d4	91.	50. - 140.
surr-Toluene d8	88.	75. - 141.
surr-4-Bromofluorobenzene	97.	69. - 131.
surr-Dibromofluoromethane	84.	76. - 136.
pcb surr-TCMX	84.	23. - 156.
pcb surr-DCB	112.	15. - 130.

- Recovery outside Laboratory historical limits.

All results reported on a wet weight basis.

Sample for pH analysis received outside method prescribed holding time.

ple report continued . . .

TestAmerica
INCORPORATED

ANALYTICAL REPORT

Laboratory Number: 01-A70083
Sample ID: KSS 0-6
Project: 2961A
Page 7

These results relate only to the items tested.
This report shall not be reproduced except in full and with permission of the laboratory.

Report Approved By: _____ Report Date: 6/ 4/01

Paul E. Lane, Jr., Lab Director
Michael H. Dunn, M.S., Technical Director
Johnny A. Mitchell, Dir. Technical Serv.
Eric S. Smith, Assistant Technical Director
Gail A. Lage, Technical Serv.
Glenn L. Norton, Technical Serv.
Kelly S. Comstock, Technical Serv.
Pamela A. Langford, Technical Serv.

Laboratory Certification Number: AZ0473

nd of Sample Report.

2960 Foster Creighton Drive / Nashville,TN 37204 / 615-726-0177 / Fax: 615-726-0954 / 800-765-0980

TestAmerica
INCORPORATED

COOLER RECEIPT FORM

Client: Keramida Env. BC# 236830

Cooler Received On: 5-25-01 And Opened On: 5-25-01 By: CRAIG COTHRON

(Signature)

1. Temperature of Cooler when opened 3.0 DEGREES C
2. Were custody seals on outside of cooler and intact?.....YES NO
   a. If yes,what kind and where: TAPE
   b. Were the signature and date correct?.....YES NO
3. Were custody seals on containers intact?.....YES NO
4. Were custody papers inside cooler?.....YES NO
5. Were custody papers properly filled out (ink,signed,etc)?.....YES NO
6. Did you sign the custody papers in the appropriate place?.....YES NO
7. What kind of packing material used? Bubblewrap Peanuts Other None
8. Was sufficient ice used (if appropriate)?.....YES NO
9. Did all bottles arrive in good condition(unbroken)?.....YES NO
10. Were all bottle labels complete (#,date,signed,pres,etc)?.....YES NO
11. Did all bottle labels and tags agree with custody papers?.....YES NO
12. Were correct bottles used for the analysis requested?.....YES NO
13. If present, was any observable voa headspace present?.....YES NO
14. If present, were VOA vials checked for absence of air bubbles and noted if found?....YES NO
15. Was sufficient amount of sample sent in each bottle?.....YES NO
16. Were correct preservatives used?.....YES NO
17. Was residual chlorine present (if appropriate)?.....YES NO
18. Corrective action taken, if necessary:
    a. Name of person contacted: SEE ATTACHED FOR RESOLUTION IF NEEDED
    b. Date:

2960 Foster Creighton Drive / Nashville,TN 37204 / 615-726-0177 / Fax: 615-726-0954 / 800-765-0980

TestAmerica
INCORPORATED

ANALYTICAL REPORT

KERAMIDA ENVIRONMENTAL 6028
KRISTEN BELLCREDI
330 N. COLLEGE AVENUE
INDIANAPOLIS, IN 46202

Lab Number: 01-A70077
Sample ID: MW-A
Sample Type: Ground water
Site ID:

Project: 2691A
Project Name: FRUEHAUF-PHOENIX
Sampler: B.H.

Date Collected: 5/24/01
Time Collected: 9:30
Date Received: 5/25/01
Time Received: 9:00

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
EXTRACTABLE ORGANICS										
Acenaphthene	ND	ug/l	10.0	10.0	1	5/30/01	23:13	B.Davis	8270C	1485
Acenaphthylene	ND	ug/l	10.0	10.0	1	5/30/01	23:13	B.Davis	8270C	1485
Anthracene	ND	ug/l	10.0	10.0	1	5/30/01	23:13	B.Davis	8270C	1485
Benzo(a)anthracene	ND	ug/l	10.0	10.0	1	5/30/01	23:13	B.Davis	8270C	1485
Benzo(a)pyrene	ND	ug/l	10.0	10.0	1	5/30/01	23:13	B.Davis	8270C	1485
Benzo(b)fluoranthene	ND	ug/l	10.0	10.0	1	5/30/01	23:13	B.Davis	8270C	1485
Benzo(g,h,i)perylene	ND	ug/l	10.0	10.0	1	5/30/01	23:13	B.Davis	8270C	1485
Benzo(k)fluoranthene	ND	ug/l	10.0	10.0	1	5/30/01	23:13	B.Davis	8270C	1485
4-Bromophenyl-phenylether	ND	ug/l	10.0	10.0	1	5/30/01	23:13	B.Davis	8270C	1485
Butylbenzylphthalate	ND	ug/l	10.0	10.0	1	5/30/01	23:13	B.Davis	8270C	1485
Carbazole	ND	ug/l	10.0	10.0	1	5/30/01	23:13	B.Davis	8270C	1485
4-Chloro-3-methylphenol	ND	ug/l	10.0	10.0	1	5/30/01	23:13	B.Davis	8270C	1485
4-Chloroaniline	ND	ug/l	10.0	10.0	1	5/30/01	23:13	B.Davis	8270C	1485
Bis(2-chloroethoxy)methane	ND	ug/l	10.0	10.0	1	5/30/01	23:13	B.Davis	8270C	1485
Bis(2-chloroethyl)ether	ND	ug/l	10.0	10.0	1	5/30/01	23:13	B.Davis	8270C	1485
Bis(2-chloroisopropyl)ether	ND	ug/l	10.0	10.0	1	5/30/01	23:13	B.Davis	8270C	1485
2-Chloronaphthalene	ND	ug/l	10.0	10.0	1	5/30/01	23:13	B.Davis	8270C	1485
2-Chlorophenol	ND	ug/l	10.0	10.0	1	5/30/01	23:13	B.Davis	8270C	1485
4-Chlorophenyl-phenylether	ND	ug/l	10.0	10.0	1	5/30/01	23:13	B.Davis	8270C	1485
Chrysene	ND	ug/l	10.0	10.0	1	5/30/01	23:13	B.Davis	8270C	1485
Dibenzofuran	ND	ug/l	10.0	10.0	1	5/30/01	23:13	B.Davis	8270C	1485
Dibenz(a,h)anthracene	ND	ug/l	10.0	10.0	1	5/30/01	23:13	B.Davis	8270C	1485
1,2-Dichlorobenzene	ND	ug/l	10.0	10.0	1	5/30/01	23:13	B.Davis	8270C	1485
1,3-Dichlorobenzene	ND	ug/l	10.0	10.0	1	5/30/01	23:13	B.Davis	8270C	1485
1,4-Dichlorobenzene	ND	ug/l	10.0	10.0	1	5/30/01	23:13	B.Davis	8270C	1485
3,3'-Dichlorobenzidine	ND	ug/l	10.0	10.0	1	5/30/01	23:13	B.Davis	8270C	1485
2,4-Dichlorophenol	ND	ug/l	10.0	10.0	1	5/30/01	23:13	B.Davis	8270C	1485

ıple report continued . . .

TestAmerica
INCORPORATED

ANALYTICAL REPORT

Laboratory Number: 01-A70077
Sample ID: MW-A
Project: 2691A
Page 2

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
Diethylphthalate	ND	ug/l	10.0	10.0	1	5/30/01	23:13	B.Davis	8270C	1485
2,4-Dimethylphenol	ND	ug/l	10.0	10.0	1	5/30/01	23:13	B.Davis	8270C	1485
Dimethylphthalate	ND	ug/l	10.0	10.0	1	5/30/01	23:13	B.Davis	8270C	1485
Di-n-Butylphthalate	ND	ug/l	10.0	10.0	1	5/30/01	23:13	B.Davis	8270C	1485
4,6-Dinitro-2-methylphenol	ND	ug/l	10.0	10.0	1	5/30/01	23:13	B.Davis	8270C	1485
2,4-Dinitrophenol	ND	ug/l	10.0	10.0	1	5/30/01	23:13	B.Davis	8270C	1485
2,4-dinitrotoluene	ND	ug/l	10.0	10.0	1	5/30/01	23:13	B.Davis	8270C	1485
2,6-Dinitrotoluene	ND	ug/l	10.0	10.0	1	5/30/01	23:13	B.Davis	8270C	1485
Di-n-octylphthalate	ND	ug/l	10.0	10.0	1	5/30/01	23:13	B.Davis	8270C	1485
Fluoranthene	ND	ug/l	10.0	10.0	1	5/30/01	23:13	B.Davis	8270C	1485
Fluorene	ND	ug/l	10.0	10.0	1	5/30/01	23:13	B.Davis	8270C	1485
Hexachlorobenzene	ND	ug/l	10.0	10.0	1	5/30/01	23:13	B.Davis	8270C	1485
Hexachlorobutadiene	ND	ug/l	10.0	10.0	1	5/30/01	23:13	B.Davis	8270C	1485
Hexachlorocyclopentadiene	ND	ug/l	10.0	10.0	1	5/30/01	23:13	B.Davis	8270C	1485
Hexachloroethane	ND	ug/l	10.0	10.0	1	5/30/01	23:13	B.Davis	8270C	1485
Indeno(1,2,3-cd)pyrene	ND	ug/l	10.0	10.0	1	5/30/01	23:13	B.Davis	8270C	1485
Isophorone	ND	ug/l	10.0	10.0	1	5/30/01	23:13	B.Davis	8270C	1485
2-Methylnaphthalene	ND	ug/l	10.0	10.0	1	5/30/01	23:13	B.Davis	8270C	1485
2-Methylphenol	ND	ug/l	10.0	10.0	1	5/30/01	23:13	B.Davis	8270C	1485
3 and 4-Methylphenol	ND	ug/l	10.0	10.0	1	5/30/01	23:13	B.Davis	8270C	1485
Naphthalene	ND	ug/l	10.0	10.0	1	5/30/01	23:13	B.Davis	8270C	1485
2-Nitroaniline	ND	ug/l	10.0	10.0	1	5/30/01	23:13	B.Davis	8270C	1485
3-Nitroaniline	ND	ug/l	10.0	10.0	1	5/30/01	23:13	B.Davis	8270C	1485
4-Nitroaniline	ND	ug/l	10.0	10.0	1	5/30/01	23:13	B.Davis	8270C	1485
Nitrobenzene	ND	ug/l	10.0	10.0	1	5/30/01	23:13	B.Davis	8270C	1485
2-Nitrophenol	ND	ug/l	10.0	10.0	1	5/30/01	23:13	B.Davis	8270C	1485
4-Nitrophenol	ND	ug/l	10.0	10.0	1	5/30/01	23:13	B.Davis	8270C	1485
N-Nitroso-Di-n-Propylamine	ND	ug/l	10.0	10.0	1	5/30/01	23:13	B.Davis	8270C	1485
N-Nitrosodiphenylamine	ND	ug/l	10.0	10.0	1	5/30/01	23:13	B.Davis	8270C	1485
Pentachlorophenol	ND	ug/l	10.0	10.0	1	5/30/01	23:13	B.Davis	8270C	1485
Phenanthrene	ND	ug/l	10.0	10.0	1	5/30/01	23:13	B.Davis	8270C	1485
Phenol	ND	ug/l	10.0	10.0	1	5/30/01	23:13	B.Davis	8270C	1485
Pyrene	ND	ug/l	10.0	10.0	1	5/30/01	23:13	B.Davis	8270C	1485
Bis(2-ethylhexyl)phthalate	ND	ug/l	10.0	10.0	1	5/30/01	23:13	B.Davis	8270C	1485
1,2,4-Trichlorobenzene	ND	ug/l	10.0	10.0	1	5/30/01	23:13	B.Davis	8270C	1485
2,4,5-Trichlorophenol	ND	ug/l	10.0	10.0	1	5/30/01	23:13	B.Davis	8270C	1485

ıple report continued . . .

TestAmerica
INCORPORATED

ANALYTICAL REPORT

Laboratory Number: 01-A70077
Sample ID: MW-A
Project: 2691A
Page 3

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
2,4,6-Trichlorophenol	ND	ug/l	10.0	10.0	1	5/30/01	23:13	B.Davis	8270C	1485
VOLATILE ORGANICS										
Acetone	ND	ug/l	50.0	50.0	1	5/26/01	20:50	N. Hurt	8260B	9714
Benzene	ND	ug/l	2.0	2.0	1	5/26/01	20:50	N. Hurt	8260B	9714
Bromobenzene	ND	ug/l	2.0	2.0	1	5/26/01	20:50	N. Hurt	8260B	9714
Bromochloromethane	ND	ug/l	2.0	2.0	1	5/26/01	20:50	N. Hurt	8260B	9714
Bromoform	ND	ug/l	2.0	2.0	1	5/26/01	20:50	N. Hurt	8260B	9714
Bromomethane	ND	ug/l	2.0	2.0	1	5/26/01	20:50	N. Hurt	8260B	9714
2-Butanone	ND	ug/l	50.0	50.0	1	5/26/01	20:50	N. Hurt	8260B	9714
n-Butylbenzene	ND	ug/l	2.0	2.0	1	5/26/01	20:50	N. Hurt	8260B	9714
sec-Butylbenzene	ND	ug/l	2.0	2.0	1	5/26/01	20:50	N. Hurt	8260B	9714
t-Butylbenzene	ND	ug/l	2.0	2.0	1	5/26/01	20:50	N. Hurt	8260B	9714
Carbon disulfide	ND	ug/l	2.0	2.0	1	5/26/01	20:50	N. Hurt	8260B	9714
Carbon tetrachloride	ND	ug/l	2.0	2.0	1	5/26/01	20:50	N. Hurt	8260B	9714
Chlorobenzene	ND	ug/l	2.0	2.0	1	5/26/01	20:50	N. Hurt	8260B	9714
Chloroethane	ND	ug/l	2.0	2.0	1	5/26/01	20:50	N. Hurt	8260B	9714
Chloroform	ND	ug/l	2.0	2.0	1	5/26/01	20:50	N. Hurt	8260B	9714
Chloromethane	ND	ug/l	2.0	2.0	1	5/26/01	20:50	N. Hurt	8260B	9714
2-Chlorotoluene	ND	ug/l	2.0	2.0	1	5/26/01	20:50	N. Hurt	8260B	9714
4-Chlorotoluene	ND	ug/l	2.0	2.0	1	5/26/01	20:50	N. Hurt	8260B	9714
1,2-Dibromo-3-chloropropane	ND	ug/l	10.0	10.0	1	5/26/01	20:50	N. Hurt	8260B	9714
Dibromochloromethane	ND	ug/l	2.0	2.0	1	5/26/01	20:50	N. Hurt	8260B	9714
1,2-Dibromoethane	ND	ug/l	2.0	2.0	1	5/26/01	20:50	N. Hurt	8260B	9714
Dibromomethane	ND	ug/l	2.0	2.0	1	5/26/01	20:50	N. Hurt	8260B	9714
1,2-Dichlorobenzene	ND	ug/l	2.0	2.0	1	5/26/01	20:50	N. Hurt	8260B	9714
1,3-Dichlorobenzene	ND	ug/l	2.0	2.0	1	5/26/01	20:50	N. Hurt	8260B	9714
1,4-Dichlorobenzene	ND	ug/l	2.0	2.0	1	5/26/01	20:50	N. Hurt	8260B	9714
Dichlorodifluoromethane	ND	ug/l	2.0	2.0	1	5/26/01	20:50	N. Hurt	8260B	9714
1,1-Dichloroethane	ND	ug/l	2.0	2.0	1	5/26/01	20:50	N. Hurt	8260B	9714
1,2-Dichloroethane	ND	ug/l	2.0	2.0	1	5/26/01	20:50	N. Hurt	8260B	9714
1,1-Dichloroethene	ND	ug/l	2.0	2.0	1	5/26/01	20:50	N. Hurt	8260B	9714
cis-1,2-Dichloroethene	ND	ug/l	2.0	2.0	1	5/26/01	20:50	N. Hurt	8260B	9714
trans-1,2-Dichloroethene	ND	ug/l	2.0	2.0	1	5/26/01	20:50	N. Hurt	8260B	9714
1,2-Dichloropropane	ND	ug/l	2.0	2.0	1	5/26/01	20:50	N. Hurt	8260B	9714
1,3-Dichloropropane	ND	ug/l	2.0	2.0	1	5/26/01	20:50	N. Hurt	8260B	9714

mple report continued . . .

TestAmerica
INCORPORATED

ANALYTICAL REPORT

Laboratory Number: 01-A70077
Sample ID: MW-A
Project: 2691A

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
2,2-Dichloropropane	ND	ug/l	2.0	2.0	1	5/26/01	20:50	N. Hurt	8260B	9714
1,1-Dichloropropene	ND	ug/l	2.0	2.0	1	5/26/01	20:50	N. Hurt	8260B	9714
cis-1,3-Dichloropropene	ND	ug/l	2.0	2.0	1	5/26/01	20:50	N. Hurt	8260B	9714
trans-1,3-Dichloropropene	ND	ug/l	2.0	2.0	1	5/26/01	20:50	N. Hurt	8260B	9714
Ethylbenzene	ND	ug/l	2.0	2.0	1	5/26/01	20:50	N. Hurt	8260B	9714
Hexachlorobutadiene	ND	ug/l	2.0	2.0	1	5/26/01	20:50	N. Hurt	8260B	9714
2-Hexanone	ND	ug/l	10.0	10.0	1	5/26/01	20:50	N. Hurt	8260B	9714
Isopropylbenzene	ND	ug/l	2.0	2.0	1	5/26/01	20:50	N. Hurt	8260B	9714
4-Isopropyltoluene	ND	ug/l	2.0	2.0	1	5/26/01	20:50	N. Hurt	8260B	9714
4-Methyl-2-pentanone	ND	ug/l	10.0	10.0	1	5/26/01	20:50	N. Hurt	8260B	9714
Methylene chloride	ND	ug/l	5.0	5.0	1	5/26/01	20:50	N. Hurt	8260B	9714
Naphthalene	ND	ug/l	5.0	5.0	1	5/26/01	20:50	N. Hurt	8260B	9714
n-Propylbenzene	ND	ug/l	2.0	2.0	1	5/26/01	20:50	N. Hurt	8260B	9714
Styrene	ND	ug/l	2.0	2.0	1	5/26/01	20:50	N. Hurt	8260B	9714
1,1,1,2-Tetrachloroethane	ND	ug/l	2.0	2.0	1	5/26/01	20:50	N. Hurt	8260B	9714
1,1,2,2-Tetrachloroethane	ND	ug/l	2.0	2.0	1	5/26/01	20:50	N. Hurt	8260B	9714
Tetrachloroethene	ND	ug/l	2.0	2.0	1	5/26/01	20:50	N. Hurt	8260B	9714
Toluene	ND	ug/l	2.0	2.0	1	5/26/01	20:50	N. Hurt	8260B	9714
1,2,3-Trichlorobenzene	ND	ug/l	2.0	2.0	1	5/26/01	20:50	N. Hurt	8260B	9714
1,2,4-Trichlorobenzene	ND	ug/l	2.0	2.0	1	5/26/01	20:50	N. Hurt	8260B	9714
1,1,1-Trichloroethane	ND	ug/l	2.0	2.0	1	5/26/01	20:50	N. Hurt	8260B	9714
1,1,2-Trichloroethane	ND	ug/l	2.0	2.0	1	5/26/01	20:50	N. Hurt	8260B	9714
Trichloroethene	ND	ug/l	2.0	2.0	1	5/26/01	20:50	N. Hurt	8260B	9714
1,2,3-Trichloropropane	ND	ug/l	2.0	2.0	1	5/26/01	20:50	N. Hurt	8260B	9714
1,2,4-Trimethylbenzene	ND	ug/l	2.0	2.0	1	5/26/01	20:50	N. Hurt	8260B	9714
1,3,5-Trimethylbenzene	ND	ug/l	2.0	2.0	1	5/26/01	20:50	N. Hurt	8260B	9714
Vinyl chloride	ND	ug/l	2.0	2.0	1	5/26/01	20:50	N. Hurt	8260B	9714
Xylenes, Total	ND	ug/l	2.0	2.0	1	5/26/01	20:50	N. Hurt	8260B	9714
Bromodichloromethane	ND	ug/l	2.0	2.0	1	5/26/01	20:50	N. Hurt	8260B	9714
Trichlorofluoromethane	ND	ug/l	2.0	2.0	1	5/26/01	20:50	N. Hurt	8260B	9714
PESTICIDES/PCB's/HERBICIDES										
Aroclor 1016	ND	ug/l	0.50	0.50	1	6/ 1/01	8:19	M. Cauthen	8082	2362
Aroclor 1221	ND	ug/l	1.00	1.00	1	6/ 1/01	8:19	M. Cauthen	8082	2362
Aroclor 1232	ND	ug/l	0.50	0.50	1	6/ 1/01	8:19	M. Cauthen	8082	2362
Aroclor 1242	ND	ug/l	0.50	0.50	1	6/ 1/01	8:19	M. Cauthen	8082	2362

ıple report continued . . .

TestAmerica
INCORPORATED

ANALYTICAL REPORT

Laboratory Number: 01-A70077
Sample ID: MW-A
Project: 2691A

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
Aroclor 1248	ND	ug/l	0.50	0.50	1	6/ 1/01	8:19	M. Cauthen	8082	2362
Aroclor 1254	ND	ug/l	0.50	0.50	1	6/ 1/01	8:19	M. Cauthen	8082	2362
Aroclor 1260	ND	ug/l	0.50	0.50	1	6/ 1/01	8:19	M. Cauthen	8082	2362
METALS										
Arsenic, Total	98.0	ug/l	5.00	5.00	1	5/29/01	8:40	G.Robinson	6010B	9967
Barium, Total	778.0	ug/l	10.00	10.00	1	5/29/01	8:40	G.Robinson	6010B	9967
Cadmium, total	ND	ug/l	1.000	1.000	1	5/29/01	8:40	G.Robinson	6010B	9967
Chromium, total	133.0	ug/l	5.000	5.000	1	5/29/01	8:40	G.Robinson	6010B	9967
Lead	36.00	ug/l	3.000	3.000	1	5/29/01	8:40	G.Robinson	6010B	9967
Mercury	ND	ug/l	0.20000	0.20000	1	5/26/01	10:57	G.McCord	7470	9271
Selenium, Total	ND	ug/l	5.000	5.000	1	5/29/01	8:40	G.Robinson	6010B	9967
Silver, Total	ND	ug/l	5.0000	5.0000	1	5/29/01	8:40	G.Robinson	6010B	9967

ND - Not detected at the report limit.

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Time	Analyst	Method
BNA's	950. ml	1.0 ml	5/27/01		J. Rudden	3510/625
PCB's	500. ml	5.00 ml	5/29/01		D.Yeager	3510/608

Surrogate	% Recovery	Target Range
VOA Surr, 1,2-DCA, d4	104.	68. - 143.
VOA Surr, Toluene d8	112.	78. - 127.
VOA Surr, 4-BFB	104.	73. - 127.
VOA Surr, DBFM	109.	76. - 135.
BNA Surr-Nitrobenzene-d5	82.	20. - 118.
BNA Surr-2-Fluorobiphenyl	85.	18. - 116.

mple report continued . . .

TestAmerica
INCORPORATED

ANALYTICAL REPORT

Laboratory Number: 01-A70077
Sample ID: MW-A
Project: 2691A

Surrogate	% Recovery	Target Range
BNA Surr-Terphenyl d14	46.	10. - 119.
BNA Surr-Phenol-d5	26.	10. - 69.
BNA Surr-2-Fluorophenol	38.	10. - 148.
BNA Surr-2,4,6-Tribromophenol	113.	17. - 155.
pcb surr - TCMX	105.	10. - 164.
pcb surr-PCB	106.	10. - 157.

- Recovery outside Laboratory historical limits.

All results reported on a wet weight basis.

These results relate only to the items tested.
This report shall not be reproduced except in full and with permission of the laboratory.

Report Approved By: _____ Report Date: 6/ 4/01

Paul E. Lane, Jr., Lab Director
Michael H. Dunn, M.S., Technical Director
Johnny A. Mitchell, Dir. Technical Serv.
Eric S. Smith, Assistant Technical Director
Gail A. Lage, Technical Serv.
Glenn L. Norton, Technical Serv.
Kelly S. Comstock, Technical Serv.
Pamela A. Langford, Technical Serv.

Laboratory Certification Number: AZ0473

nd of Sample Report.

2960 Foster Creighton Drive / Nashville,TN 37204 / 615-726-0177 / Fax: 615-726-0954 / 800-765-0980

TestAmerica
INCORPORATED

ANALYTICAL REPORT

KERAMIDA ENVIRONMENTAL 6028
KRISTEN BELLCREDI
330 N. COLLEGE AVENUE
INDIANAPOLIS, IN 46202

Lab Number: 01-A70078
Sample ID: MW-B
Sample Type: Ground water
Site ID:

Project: 2691A
Project Name: FRUEHAUF-PHOENIX
Sampler: B.H.

Date Collected: 5/24/01
Time Collected: 10:00
Date Received: 5/25/01
Time Received: 9:00

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
EXTRACTABLE ORGANICS										
Acenaphthene	ND	ug/l	11.1	10.0	1	5/30/01	23:51	B.Davis	8270C	1485
Acenaphthylene	ND	ug/l	11.1	10.0	1	5/30/01	23:51	B.Davis	8270C	1485
Anthracene	ND	ug/l	11.1	10.0	1	5/30/01	23:51	B.Davis	8270C	1485
Benzo(a)anthracene	ND	ug/l	11.1	10.0	1	5/30/01	23:51	B.Davis	8270C	1485
Benzo(a)pyrene	ND	ug/l	11.1	10.0	1	5/30/01	23:51	B.Davis	8270C	1485
Benzo(b)fluoranthene	ND	ug/l	11.1	10.0	1	5/30/01	23:51	B.Davis	8270C	1485
Benzo(g,h,i)perylene	ND	ug/l	11.1	10.0	1	5/30/01	23:51	B.Davis	8270C	1485
Benzo(k)fluoranthene	ND	ug/l	11.1	10.0	1	5/30/01	23:51	B.Davis	8270C	1485
4-Bromophenyl-phenylether	ND	ug/l	11.1	10.0	1	5/30/01	23:51	B.Davis	8270C	1485
Butylbenzylphthalate	ND	ug/l	11.1	10.0	1	5/30/01	23:51	B.Davis	8270C	1485
Carbazole	ND	ug/l	11.1	10.0	1	5/30/01	23:51	B.Davis	8270C	1485
4-Chloro-3-methylphenol	ND	ug/l	11.1	10.0	1	5/30/01	23:51	B.Davis	8270C	1485
4-Chloroaniline	ND	ug/l	11.1	10.0	1	5/30/01	23:51	B.Davis	8270C	1485
Bis(2-chloroethoxy)methane	ND	ug/l	11.1	10.0	1	5/30/01	23:51	B.Davis	8270C	1485
Bis(2-chloroethyl)ether	ND	ug/l	11.1	10.0	1	5/30/01	23:51	B.Davis	8270C	1485
Bis(2-chloroisopropyl)ether	ND	ug/l	11.1	10.0	1	5/30/01	23:51	B.Davis	8270C	1485
2-Chloronaphthalene	ND	ug/l	11.1	10.0	1	5/30/01	23:51	B.Davis	8270C	1485
2-Chlorophenol	ND	ug/l	11.1	10.0	1	5/30/01	23:51	B.Davis	8270C	1485
4-Chlorophenyl-phenylether	ND	ug/l	11.1	10.0	1	5/30/01	23:51	B.Davis	8270C	1485
Chrysene	ND	ug/l	11.1	10.0	1	5/30/01	23:51	B.Davis	8270C	1485
Dibenzofuran	ND	ug/l	11.1	10.0	1	5/30/01	23:51	B.Davis	8270C	1485
Dibenz(a,h)anthracene	ND	ug/l	11.1	10.0	1	5/30/01	23:51	B.Davis	8270C	1485
1,2-Dichlorobenzene	ND	ug/l	11.1	10.0	1	5/30/01	23:51	B.Davis	8270C	1485
1,3-Dichlorobenzene	ND	ug/l	11.1	10.0	1	5/30/01	23:51	B.Davis	8270C	1485
1,4-Dichlorobenzene	ND	ug/l	11.1	10.0	1	5/30/01	23:51	B.Davis	8270C	1485
3,3'-Dichlorobenzidine	ND	ug/l	11.1	10.0	1	5/30/01	23:51	B.Davis	8270C	1485
2,4-Dichlorophenol	ND	ug/l	11.1	10.0	1	5/30/01	23:51	B.Davis	8270C	1485

ple report continued . . .

TestAmerica
INCORPORATED

ANALYTICAL REPORT

Laboratory Number: 01-A70078
Sample ID: MW-B
Project: 2691A
Page 2

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
Diethylphthalate	ND	ug/l	11.1	10.0	1	5/30/01	23:51	B.Davis	8270C	1485
2,4-Dimethylphenol	ND	ug/l	11.1	10.0	1	5/30/01	23:51	B.Davis	8270C	1485
Dimethylphthalate	ND	ug/l	11.1	10.0	1	5/30/01	23:51	B.Davis	8270C	1485
Di-n-Butylphthalate	ND	ug/l	11.1	10.0	1	5/30/01	23:51	B.Davis	8270C	1485
4,6-Dinitro-2-methylphenol	ND	ug/l	11.1	10.0	1	5/30/01	23:51	B.Davis	8270C	1485
2,4-Dinitrophenol	ND	ug/l	11.1	10.0	1	5/30/01	23:51	B.Davis	8270C	1485
2,4-dinitrotoluene	ND	ug/l	11.1	10.0	1	5/30/01	23:51	B.Davis	8270C	1485
2,6-Dinitrotoluene	ND	ug/l	11.1	10.0	1	5/30/01	23:51	B.Davis	8270C	1485
Di-n-octylphthalate	ND	ug/l	11.1	10.0	1	5/30/01	23:51	B.Davis	8270C	1485
Fluoranthene	ND	ug/l	11.1	10.0	1	5/30/01	23:51	B.Davis	8270C	1485
Fluorene	ND	ug/l	11.1	10.0	1	5/30/01	23:51	B.Davis	8270C	1485
Hexachlorobenzene	ND	ug/l	11.1	10.0	1	5/30/01	23:51	B.Davis	8270C	1485
Hexachlorobutadiene	ND	ug/l	11.1	10.0	1	5/30/01	23:51	B.Davis	8270C	1485
Hexachlorocyclopentadiene	ND	ug/l	11.1	10.0	1	5/30/01	23:51	B.Davis	8270C	1485
Hexachloroethane	ND	ug/l	11.1	10.0	1	5/30/01	23:51	B.Davis	8270C	1485
Indeno(1,2,3-cd)pyrene	ND	ug/l	11.1	10.0	1	5/30/01	23:51	B.Davis	8270C	1485
Isophorone	ND	ug/l	11.1	10.0	1	5/30/01	23:51	B.Davis	8270C	1485
2-Methylnaphthalene	ND	ug/l	11.1	10.0	1	5/30/01	23:51	B.Davis	8270C	1485
2-Methylphenol	ND	ug/l	11.1	10.0	1	5/30/01	23:51	B.Davis	8270C	1485
3 and 4-Methylphenol	ND	ug/l	11.1	10.0	1	5/30/01	23:51	B.Davis	8270C	1485
Naphthalene	ND	ug/l	11.1	10.0	1	5/30/01	23:51	B.Davis	8270C	1485
2-Nitroaniline	ND	ug/l	11.1	10.0	1	5/30/01	23:51	B.Davis	8270C	1485
3-Nitroaniline	ND	ug/l	11.1	10.0	1	5/30/01	23:51	B.Davis	8270C	1485
4-Nitroaniline	ND	ug/l	11.1	10.0	1	5/30/01	23:51	B.Davis	8270C	1485
Nitrobenzene	ND	ug/l	11.1	10.0	1	5/30/01	23:51	B.Davis	8270C	1485
2-Nitrophenol	ND	ug/l	11.1	10.0	1	5/30/01	23:51	B.Davis	8270C	1485
4-Nitrophenol	ND	ug/l	11.1	10.0	1	5/30/01	23:51	B.Davis	8270C	1485
N-Nitroso-Di-n-Propylamine	ND	ug/l	11.1	10.0	1	5/30/01	23:51	B.Davis	8270C	1485
N-Nitrosodiphenylamine	ND	ug/l	11.1	10.0	1	5/30/01	23:51	B.Davis	8270C	1485
Pentachlorophenol	ND	ug/l	11.1	10.0	1	5/30/01	23:51	B.Davis	8270C	1485
Phenanthrene	ND	ug/l	11.1	10.0	1	5/30/01	23:51	B.Davis	8270C	1485
Phenol	ND	ug/l	11.1	10.0	1	5/30/01	23:51	B.Davis	8270C	1485
Pyrene	ND	ug/l	11.1	10.0	1	5/30/01	23:51	B.Davis	8270C	1485
Bis(2-ethylhexyl)phthalate	ND	ug/l	11.1	10.0	1	5/30/01	23:51	B.Davis	8270C	1485
1,2,4-Trichlorobenzene	ND	ug/l	11.1	10.0	1	5/30/01	23:51	B.Davis	8270C	1485
2,4,5-Trichlorophenol	ND	ug/l	11.1	10.0	1	5/30/01	23:51	B.Davis	8270C	1485

›le report continued . . .

TestAmerica
INCORPORATED

ANALYTICAL REPORT

Laboratory Number: 01-A70078
Sample ID: MW-B
Project: 2691A

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
2,4,6-Trichlorophenol	ND	ug/l	11.1	10.0	1	5/30/01	23:51	B.Davis	8270C	1485
VOLATILE ORGANICS										
Acetone	ND	ug/l	50.0	50.0	1	5/26/01	21:27	N. Hurt	8260B	9714
Benzene	ND	ug/l	2.0	2.0	1	5/26/01	21:27	N. Hurt	8260B	9714
Bromobenzene	ND	ug/l	2.0	2.0	1	5/26/01	21:27	N. Hurt	8260B	9714
Bromochloromethane	ND	ug/l	2.0	2.0	1	5/26/01	21:27	N. Hurt	8260B	9714
Bromoform	ND	ug/l	2.0	2.0	1	5/26/01	21:27	N. Hurt	8260B	9714
Bromomethane	ND	ug/l	2.0	2.0	1	5/26/01	21:27	N. Hurt	8260B	9714
2-Butanone	ND	ug/l	50.0	50.0	1	5/26/01	21:27	N. Hurt	8260B	9714
n-Butylbenzene	ND	ug/l	2.0	2.0	1	5/26/01	21:27	N. Hurt	8260B	9714
sec-Butylbenzene	ND	ug/l	2.0	2.0	1	5/26/01	21:27	N. Hurt	8260B	9714
t-Butylbenzene	ND	ug/l	2.0	2.0	1	5/26/01	21:27	N. Hurt	8260B	9714
Carbon disulfide	ND	ug/l	2.0	2.0	1	5/26/01	21:27	N. Hurt	8260B	9714
Carbon tetrachloride	ND	ug/l	2.0	2.0	1	5/26/01	21:27	N. Hurt	8260B	9714
Chlorobenzene	ND	ug/l	2.0	2.0	1	5/26/01	21:27	N. Hurt	8260B	9714
Chloroethane	ND	ug/l	2.0	2.0	1	5/26/01	21:27	N. Hurt	8260B	9714
Chloroform	ND	ug/l	2.0	2.0	1	5/26/01	21:27	N. Hurt	8260B	9714
Chloromethane	ND	ug/l	2.0	2.0	1	5/26/01	21:27	N. Hurt	8260B	9714
2-Chlorotoluene	ND	ug/l	2.0	2.0	1	5/26/01	21:27	N. Hurt	8260B	9714
4-Chlorotoluene	ND	ug/l	2.0	2.0	1	5/26/01	21:27	N. Hurt	8260B	9714
1,2-Dibromo-3-chloropropane	ND	ug/l	10.0	10.0	1	5/26/01	21:27	N. Hurt	8260B	9714
Dibromochloromethane	ND	ug/l	2.0	2.0	1	5/26/01	21:27	N. Hurt	8260B	9714
1,2-Dibromoethane	ND	ug/l	2.0	2.0	1	5/26/01	21:27	N. Hurt	8260B	9714
Dibromomethane	ND	ug/l	2.0	2.0	1	5/26/01	21:27	N. Hurt	8260B	9714
1,2-Dichlorobenzene	ND	ug/l	2.0	2.0	1	5/26/01	21:27	N. Hurt	8260B	9714
1,3-Dichlorobenzene	ND	ug/l	2.0	2.0	1	5/26/01	21:27	N. Hurt	8260B	9714
1,4-Dichlorobenzene	ND	ug/l	2.0	2.0	1	5/26/01	21:27	N. Hurt	8260B	9714
Dichlorodifluoromethane	ND	ug/l	2.0	2.0	1	5/26/01	21:27	N. Hurt	8260B	9714
1,1-Dichloroethane	ND	ug/l	2.0	2.0	1	5/26/01	21:27	N. Hurt	8260B	9714
1,2-Dichloroethane	ND	ug/l	2.0	2.0	1	5/26/01	21:27	N. Hurt	8260B	9714
1,1-Dichloroethene	ND	ug/l	2.0	2.0	1	5/26/01	21:27	N. Hurt	8260B	9714
cis-1,2-Dichloroethene	ND	ug/l	2.0	2.0	1	5/26/01	21:27	N. Hurt	8260B	9714
trans-1,2-Dichloroethene	ND	ug/l	2.0	2.0	1	5/26/01	21:27	N. Hurt	8260B	9714
1,2-Dichloropropane	ND	ug/l	2.0	2.0	1	5/26/01	21:27	N. Hurt	8260B	9714
1,3-Dichloropropane	ND	ug/l	2.0	2.0	1	5/26/01	21:27	N. Hurt	8260B	9714

ample report continued . . .

TestAmerica
INCORPORATED

ANALYTICAL REPORT

Laboratory Number: 01-A70078
Sample ID: MW-B
Project: 2691A
Page 4

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
2,2-Dichloropropane	ND	ug/l	2.0	2.0	1	5/26/01	21:27	N. Hurt	8260B	9714
1,1-Dichloropropene	ND	ug/l	2.0	2.0	1	5/26/01	21:27	N. Hurt	8260B	9714
cis-1,3-Dichloropropene	ND	ug/l	2.0	2.0	1	5/26/01	21:27	N. Hurt	8260B	9714
trans-1,3-Dichloropropene	ND	ug/l	2.0	2.0	1	5/26/01	21:27	N. Hurt	8260B	9714
Ethylbenzene	ND	ug/l	2.0	2.0	1	5/26/01	21:27	N. Hurt	8260B	9714
Hexachlorobutadiene	ND	ug/l	2.0	2.0	1	5/26/01	21:27	N. Hurt	8260B	9714
2-Hexanone	ND	ug/l	10.0	10.0	1	5/26/01	21:27	N. Hurt	8260B	9714
Isopropylbenzene	ND	ug/l	2.0	2.0	1	5/26/01	21:27	N. Hurt	8260B	9714
4-Isopropyltoluene	ND	ug/l	2.0	2.0	1	5/26/01	21:27	N. Hurt	8260B	9714
4-Methyl-2-pentanone	ND	ug/l	10.0	10.0	1	5/26/01	21:27	N. Hurt	8260B	9714
Methylene chloride	ND	ug/l	5.0	5.0	1	5/26/01	21:27	N. Hurt	8260B	9714
Naphthalene	ND	ug/l	5.0	5.0	1	5/26/01	21:27	N. Hurt	8260B	9714
n-Propylbenzene	ND	ug/l	2.0	2.0	1	5/26/01	21:27	N. Hurt	8260B	9714
Styrene	ND	ug/l	2.0	2.0	1	5/26/01	21:27	N. Hurt	8260B	9714
1,1,1,2-Tetrachloroethane	ND	ug/l	2.0	2.0	1	5/26/01	21:27	N. Hurt	8260B	9714
1,1,2,2-Tetrachloroethane	ND	ug/l	2.0	2.0	1	5/26/01	21:27	N. Hurt	8260B	9714
Tetrachloroethene	ND	ug/l	2.0	2.0	1	5/26/01	21:27	N. Hurt	8260B	9714
Toluene	ND	ug/l	2.0	2.0	1	5/26/01	21:27	N. Hurt	8260B	9714
1,2,3-Trichlorobenzene	ND	ug/l	2.0	2.0	1	5/26/01	21:27	N. Hurt	8260B	9714
1,2,4-Trichlorobenzene	ND	ug/l	2.0	2.0	1	5/26/01	21:27	N. Hurt	8260B	9714
1,1,1-Trichloroethane	ND	ug/l	2.0	2.0	1	5/26/01	21:27	N. Hurt	8260B	9714
1,1,2-Trichloroethane	ND	ug/l	2.0	2.0	1	5/26/01	21:27	N. Hurt	8260B	9714
Trichloroethene	ND	ug/l	2.0	2.0	1	5/26/01	21:27	N. Hurt	8260B	9714
1,2,3-Trichloropropane	ND	ug/l	2.0	2.0	1	5/26/01	21:27	N. Hurt	8260B	9714
1,2,4-Trimethylbenzene	ND	ug/l	2.0	2.0	1	5/26/01	21:27	N. Hurt	8260B	9714
1,3,5-Trimethylbenzene	ND	ug/l	2.0	2.0	1	5/26/01	21:27	N. Hurt	8260B	9714
Vinyl chloride	ND	ug/l	2.0	2.0	1	5/26/01	21:27	N. Hurt	8260B	9714
Xylenes, Total	ND	ug/l	2.0	2.0	1	5/26/01	21:27	N. Hurt	8260B	9714
Bromodichloromethane	ND	ug/l	2.0	2.0	1	5/26/01	21:27	N. Hurt	8260B	9714
Trichlorofluoromethane	ND	ug/l	2.0	2.0	1	5/26/01	21:27	N. Hurt	8260B	9714
PESTICIDES/PCB's/HERBICIDES										
Aroclor 1016	ND	ug/l	0.50	0.50	1	6/ 1/01	8:43	M. Cauthen	8082	2362
Aroclor 1221	ND	ug/l	1.00	1.00	1	6/ 1/01	8:43	M. Cauthen	8082	2362
Aroclor 1232	ND	ug/l	0.50	0.50	1	6/ 1/01	8:43	M. Cauthen	8082	2362
Aroclor 1242	ND	ug/l	0.50	0.50	1	6/ 1/01	8:43	M. Cauthen	8082	2362

ple report continued . . .

TestAmerica
INCORPORATED

ANALYTICAL REPORT

Laboratory Number: 01-A70078
Sample ID: MW-B
Project: 2691A

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
Aroclor 1248	ND	ug/l	0.50	0.50	1	6/ 1/01	8:43	M. Cauthen	8082	2362
Aroclor 1254	ND	ug/l	0.50	0.50	1	6/ 1/01	8:43	M. Cauthen	8082	2362
Aroclor 1260	ND	ug/l	0.50	0.50	1	6/ 1/01	8:43	M. Cauthen	8082	2362
METALS										
Arsenic, Total	113.	ug/l	5.00	5.00	1	5/29/01	8:40	G.Robinson	6010B	9967
Barium, Total	1170.	ug/l	10.00	10.00	1	5/29/01	8:40	G.Robinson	6010B	9967
Cadmium, total	ND	ug/l	1.000	1.000	1	5/29/01	8:40	G.Robinson	6010B	9967
Chromium, total	130.0	ug/l	5.000	5.000	1	5/29/01	8:40	G.Robinson	6010B	9967
Lead	57.00	ug/l	3.000	3.000	1	5/29/01	8:40	G.Robinson	6010B	9967
Mercury	0.27000	ug/l	0.20000	0.20000	1	5/26/01	10:57	G.McCord	7470	9271
Selenium, Total	ND	ug/l	5.000	5.000	1	5/29/01	8:40	G.Robinson	6010B	9967
Silver, Total	ND	ug/l	5.0000	5.0000	1	5/29/01	8:40	G.Robinson	6010B	9967

ND - Not detected at the report limit.

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Time	Analyst	Method
BNA's	900. ml	1.0 ml	5/27/01		J. Rudden	3510/625
PCB's	500. ml	5.00 ml	5/29/01		D.Yeager	3510/608

Surrogate	% Recovery	Target Range
VOA Surr, 1,2-DCA, d4	99.	68. - 143.
VOA Surr, Toluene d8	108.	78. - 127.
VOA Surr, 4-BFB	104.	73. - 127.
VOA Surr, DBFM	106.	76. - 135.
BNA Surr-Nitrobenzene-d5	82.	20. - 118.
BNA Surr-2-Fluorobiphenyl	84.	18. - 116.

mple report continued . . .

TestAmerica
INCORPORATED

ANALYTICAL REPORT

Laboratory Number: 01-A70078
Sample ID: MW-B
Project: 2691A

Surrogate	% Recovery	Target Range
BNA Surr-Terphenyl d14	48.	10. - 119.
BNA Surr-Phenol-d5	26.	10. - 69.
BNA Surr-2-Fluorophenol	40.	10. - 148.
BNA Surr-2,4,6-Tribromophenol	117.	17. - 155.
pcb surr - TCMX	107.	10. - 164.
pcb surr-PCB	109.	10. - 157.

≠ - Recovery outside Laboratory historical limits.

All results reported on a wet weight basis.

These results relate only to the items tested.
This report shall not be reproduced except in full and with permission of the laboratory.

Report Approved By: _____ Report Date: 6/ 4/01

Paul E. Lane, Jr., Lab Director
Michael H. Dunn, M.S., Technical Director
Johnny A. Mitchell, Dir. Technical Serv.
Eric S. Smith, Assistant Technical Director
Gail A. Lage, Technical Serv.
Glenn L. Norton, Technical Serv.
Kelly S. Comstock, Technical Serv.
Pamela A. Langford, Technical Serv.

Laboratory Certification Number: AZ0473

nd of Sample Report.

TestAmerica
INCORPORATED

ANALYTICAL REPORT

KERAMIDA ENVIRONMENTAL 6028
KRISTEN BELLCREDI
330 N. COLLEGE AVENUE
INDIANAPOLIS, IN 46202

Lab Number: 01-A70079
Sample ID: MW-C
Sample Type: Ground water
Site ID:

Project: 2691A
Project Name: FRUEHAUF-PHOENIX
Sampler: B.H.

Date Collected: 5/24/01
Time Collected: 10:20
Date Received: 5/25/01
Time Received: 9:00

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
EXTRACTABLE ORGANICS										
Acenaphthene	ND	ug/l	10.0	10.0	1	5/31/01	0:28	B.Davis	8270C	1485
Acenaphthylene	ND	ug/l	10.0	10.0	1	5/31/01	0:28	B.Davis	8270C	1485
Anthracene	ND	ug/l	10.0	10.0	1	5/31/01	0:28	B.Davis	8270C	1485
Benzo(a)anthracene	ND	ug/l	10.0	10.0	1	5/31/01	0:28	B.Davis	8270C	1485
Benzo(a)pyrene	ND	ug/l	10.0	10.0	1	5/31/01	0:28	B.Davis	8270C	1485
Benzo(b)fluoranthene	ND	ug/l	10.0	10.0	1	5/31/01	0:28	B.Davis	8270C	1485
Benzo(g,h,i)perylene	ND	ug/l	10.0	10.0	1	5/31/01	0:28	B.Davis	8270C	1485
Benzo(k)fluoranthene	ND	ug/l	10.0	10.0	1	5/31/01	0:28	B.Davis	8270C	1485
4-Bromophenyl-phenylether	ND	ug/l	10.0	10.0	1	5/31/01	0:28	B.Davis	8270C	1485
Butylbenzylphthalate	ND	ug/l	10.0	10.0	1	5/31/01	0:28	B.Davis	8270C	1485
Carbazole	ND	ug/l	10.0	10.0	1	5/31/01	0:28	B.Davis	8270C	1485
4-Chloro-3-methylphenol	ND	ug/l	10.0	10.0	1	5/31/01	0:28	B.Davis	8270C	1485
4-Chloroaniline	ND	ug/l	10.0	10.0	1	5/31/01	0:28	B.Davis	8270C	1485
Bis(2-chloroethoxy)methane	ND	ug/l	10.0	10.0	1	5/31/01	0:28	B.Davis	8270C	1485
Bis(2-chloroethyl)ether	ND	ug/l	10.0	10.0	1	5/31/01	0:28	B.Davis	8270C	1485
Bis(2-chloroisopropyl)ether	ND	ug/l	10.0	10.0	1	5/31/01	0:28	B.Davis	8270C	1485
2-Chloronaphthalene	ND	ug/l	10.0	10.0	1	5/31/01	0:28	B.Davis	8270C	1485
2-Chlorophenol	ND	ug/l	10.0	10.0	1	5/31/01	0:28	B.Davis	8270C	1485
4-Chlorophenyl-phenylether	ND	ug/l	10.0	10.0	1	5/31/01	0:28	B.Davis	8270C	1485
Chrysene	ND	ug/l	10.0	10.0	1	5/31/01	0:28	B.Davis	8270C	1485
Dibenzofuran	ND	ug/l	10.0	10.0	1	5/31/01	0:28	B.Davis	8270C	1485
Dibenz(a,h)anthracene	ND	ug/l	10.0	10.0	1	5/31/01	0:28	B.Davis	8270C	1485
1,2-Dichlorobenzene	ND	ug/l	10.0	10.0	1	5/31/01	0:28	B.Davis	8270C	1485
1,3-Dichlorobenzene	ND	ug/l	10.0	10.0	1	5/31/01	0:28	B.Davis	8270C	1485
1,4-Dichlorobenzene	ND	ug/l	10.0	10.0	1	5/31/01	0:28	B.Davis	8270C	1485
3,3'-Dichlorobenzidine	ND	ug/l	10.0	10.0	1	5/31/01	0:28	B.Davis	8270C	1485
2,4-Dichlorophenol	ND	ug/l	10.0	10.0	1	5/31/01	0:28	B.Davis	8270C	1485

mple report continued . . .

TestAmerica
INCORPORATED

ANALYTICAL REPORT

Laboratory Number: 01-A70079
Sample ID: MW-C
Project: 2691A
Page 2

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
Diethylphthalate	ND	ug/l	10.0	10.0	1	5/31/01	0:28	B.Davis	8270C	1485
2,4-Dimethylphenol	ND	ug/l	10.0	10.0	1	5/31/01	0:28	B.Davis	8270C	1485
Dimethylphthalate	ND	ug/l	10.0	10.0	1	5/31/01	0:28	B.Davis	8270C	1485
Di-n-Butylphthalate	ND	ug/l	10.0	10.0	1	5/31/01	0:28	B.Davis	8270C	1485
4,6-Dinitro-2-methylphenol	ND	ug/l	10.0	10.0	1	5/31/01	0:28	B.Davis	8270C	1485
2,4-Dinitrophenol	ND	ug/l	10.0	10.0	1	5/31/01	0:28	B.Davis	8270C	1485
2,4-dinitrotoluene	ND	ug/l	10.0	10.0	1	5/31/01	0:28	B.Davis	8270C	1485
2,6-Dinitrotoluene	ND	ug/l	10.0	10.0	1	5/31/01	0:28	B.Davis	8270C	1485
Di-n-octylphthalate	ND	ug/l	10.0	10.0	1	5/31/01	0:28	B.Davis	8270C	1485
Fluoranthene	ND	ug/l	10.0	10.0	1	5/31/01	0:28	B.Davis	8270C	1485
Fluorene	ND	ug/l	10.0	10.0	1	5/31/01	0:28	B.Davis	8270C	1485
Hexachlorobenzene	ND	ug/l	10.0	10.0	1	5/31/01	0:28	B.Davis	8270C	1485
Hexachlorobutadiene	ND	ug/l	10.0	10.0	1	5/31/01	0:28	B.Davis	8270C	1485
Hexachlorocyclopentadiene	ND	ug/l	10.0	10.0	1	5/31/01	0:28	B.Davis	8270C	1485
Hexachloroethane	ND	ug/l	10.0	10.0	1	5/31/01	0:28	B.Davis	8270C	1485
Indeno(1,2,3-cd)pyrene	ND	ug/l	10.0	10.0	1	5/31/01	0:28	B.Davis	8270C	1485
Isophorone	ND	ug/l	10.0	10.0	1	5/31/01	0:28	B.Davis	8270C	1485
2-Methylnaphthalene	ND	ug/l	10.0	10.0	1	5/31/01	0:28	B.Davis	8270C	1485
2-Methylphenol	ND	ug/l	10.0	10.0	1	5/31/01	0:28	B.Davis	8270C	1485
3 and 4-Methylphenol	ND	ug/l	10.0	10.0	1	5/31/01	0:28	B.Davis	8270C	1485
Naphthalene	ND	ug/l	10.0	10.0	1	5/31/01	0:28	B.Davis	8270C	1485
2-Nitroaniline	ND	ug/l	10.0	10.0	1	5/31/01	0:28	B.Davis	8270C	1485
3-Nitroaniline	ND	ug/l	10.0	10.0	1	5/31/01	0:28	B.Davis	8270C	1485
4-Nitroaniline	ND	ug/l	10.0	10.0	1	5/31/01	0:28	B.Davis	8270C	1485
Nitrobenzene	ND	ug/l	10.0	10.0	1	5/31/01	0:28	B.Davis	8270C	1485
2-Nitrophenol	ND	ug/l	10.0	10.0	1	5/31/01	0:28	B.Davis	8270C	1485
4-Nitrophenol	ND	ug/l	10.0	10.0	1	5/31/01	0:28	B.Davis	8270C	1485
N-Nitroso-Di-n-Propylamine	ND	ug/l	10.0	10.0	1	5/31/01	0:28	B.Davis	8270C	1485
N-Nitrosodiphenylamine	ND	ug/l	10.0	10.0	1	5/31/01	0:28	B.Davis	8270C	1485
Pentachlorophenol	ND	ug/l	10.0	10.0	1	5/31/01	0:28	B.Davis	8270C	1485
Phenanthrene	ND	ug/l	10.0	10.0	1	5/31/01	0:28	B.Davis	8270C	1485
Phenol	ND	ug/l	10.0	10.0	1	5/31/01	0:28	B.Davis	8270C	1485
Pyrene	ND	ug/l	10.0	10.0	1	5/31/01	0:28	B.Davis	8270C	1485
Bis(2-ethylhexyl)phthalate	ND	ug/l	10.0	10.0	1	5/31/01	0:28	B.Davis	8270C	1485
1,2,4-Trichlorobenzene	ND	ug/l	10.0	10.0	1	5/31/01	0:28	B.Davis	8270C	1485
2,4,5-Trichlorophenol	ND	ug/l	10.0	10.0	1	5/31/01	0:28	B.Davis	8270C	1485

ple report continued . . .

TestAmerica
INCORPORATED

ANALYTICAL REPORT

Laboratory Number: 01-A70079
Sample ID: MW-C
Project: 2691A

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
2,4,6-Trichlorophenol	ND	ug/l	10.0	10.0	1	5/31/01	0:28	B.Davis	8270C	1485
VOLATILE ORGANICS										
Acetone	ND	ug/l	50.0	50.0	1	5/26/01	22:04	N. Hurt	8260B	9714
Benzene	ND	ug/l	2.0	2.0	1	5/26/01	22:04	N. Hurt	8260B	9714
Bromobenzene	ND	ug/l	2.0	2.0	1	5/26/01	22:04	N. Hurt	8260B	9714
Bromochloromethane	ND	ug/l	2.0	2.0	1	5/26/01	22:04	N. Hurt	8260B	9714
Bromoform	ND	ug/l	2.0	2.0	1	5/26/01	22:04	N. Hurt	8260B	9714
Bromomethane	ND	ug/l	2.0	2.0	1	5/26/01	22:04	N. Hurt	8260B	9714
2-Butanone	ND	ug/l	50.0	50.0	1	5/26/01	22:04	N. Hurt	8260B	9714
n-Butylbenzene	ND	ug/l	2.0	2.0	1	5/26/01	22:04	N. Hurt	8260B	9714
sec-Butylbenzene	ND	ug/l	2.0	2.0	1	5/26/01	22:04	N. Hurt	8260B	9714
t-Butylbenzene	ND	ug/l	2.0	2.0	1	5/26/01	22:04	N. Hurt	8260B	9714
Carbon disulfide	ND	ug/l	2.0	2.0	1	5/26/01	22:04	N. Hurt	8260B	9714
Carbon tetrachloride	ND	ug/l	2.0	2.0	1	5/26/01	22:04	N. Hurt	8260B	9714
Chlorobenzene	ND	ug/l	2.0	2.0	1	5/26/01	22:04	N. Hurt	8260B	9714
Chloroethane	ND	ug/l	2.0	2.0	1	5/26/01	22:04	N. Hurt	8260B	9714
Chloroform	ND	ug/l	2.0	2.0	1	5/26/01	22:04	N. Hurt	8260B	9714
Chloromethane	ND	ug/l	2.0	2.0	1	5/26/01	22:04	N. Hurt	8260B	9714
2-Chlorotoluene	ND	ug/l	2.0	2.0	1	5/26/01	22:04	N. Hurt	8260B	9714
4-Chlorotoluene	ND	ug/l	2.0	2.0	1	5/26/01	22:04	N. Hurt	8260B	9714
1,2-Dibromo-3-chloropropane	ND	ug/l	10.0	10.0	1	5/26/01	22:04	N. Hurt	8260B	9714
Dibromochloromethane	ND	ug/l	2.0	2.0	1	5/26/01	22:04	N. Hurt	8260B	9714
1,2-Dibromoethane	ND	ug/l	2.0	2.0	1	5/26/01	22:04	N. Hurt	8260B	9714
Dibromomethane	ND	ug/l	2.0	2.0	1	5/26/01	22:04	N. Hurt	8260B	9714
1,2-Dichlorobenzene	ND	ug/l	2.0	2.0	1	5/26/01	22:04	N. Hurt	8260B	9714
1,3-Dichlorobenzene	ND	ug/l	2.0	2.0	1	5/26/01	22:04	N. Hurt	8260B	9714
1,4-Dichlorobenzene	ND	ug/l	2.0	2.0	1	5/26/01	22:04	N. Hurt	8260B	9714
Dichlorodifluoromethane	ND	ug/l	2.0	2.0	1	5/26/01	22:04	N. Hurt	8260B	9714
1,1-Dichloroethane	ND	ug/l	2.0	2.0	1	5/26/01	22:04	N. Hurt	8260B	9714
1,2-Dichloroethane	ND	ug/l	2.0	2.0	1	5/26/01	22:04	N. Hurt	8260B	9714
1,1-Dichloroethene	ND	ug/l	2.0	2.0	1	5/26/01	22:04	N. Hurt	8260B	9714
cis-1,2-Dichloroethene	ND	ug/l	2.0	2.0	1	5/26/01	22:04	N. Hurt	8260B	9714
trans-1,2-Dichloroethene	ND	ug/l	2.0	2.0	1	5/26/01	22:04	N. Hurt	8260B	9714
1,2-Dichloropropane	ND	ug/l	2.0	2.0	1	5/26/01	22:04	N. Hurt	8260B	9714
1,3-Dichloropropane	ND	ug/l	2.0	2.0	1	5/26/01	22:04	N. Hurt	8260B	9714

mple report continued . . .

TestAmerica
INCORPORATED

ANALYTICAL REPORT

Laboratory Number: 01-A70079
Sample ID: MW-C
Project: 2691A

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
2,2-Dichloropropane	ND	ug/l	2.0	2.0	1	5/26/01	22:04	N. Hurt	8260B	9714
1,1-Dichloropropene	ND	ug/l	2.0	2.0	1	5/26/01	22:04	N. Hurt	8260B	9714
cis-1,3-Dichloropropene	ND	ug/l	2.0	2.0	1	5/26/01	22:04	N. Hurt	8260B	9714
trans-1,3-Dichloropropene	ND	ug/l	2.0	2.0	1	5/26/01	22:04	N. Hurt	8260B	9714
Ethylbenzene	ND	ug/l	2.0	2.0	1	5/26/01	22:04	N. Hurt	8260B	9714
Hexachlorobutadiene	ND	ug/l	2.0	2.0	1	5/26/01	22:04	N. Hurt	8260B	9714
2-Hexanone	ND	ug/l	10.0	10.0	1	5/26/01	22:04	N. Hurt	8260B	9714
Isopropylbenzene	ND	ug/l	2.0	2.0	1	5/26/01	22:04	N. Hurt	8260B	9714
4-Isopropyltoluene	ND	ug/l	2.0	2.0	1	5/26/01	22:04	N. Hurt	8260B	9714
4-Methyl-2-pentanone	ND	ug/l	10.0	10.0	1	5/26/01	22:04	N. Hurt	8260B	9714
Methylene chloride	ND	ug/l	5.0	5.0	1	5/26/01	22:04	N. Hurt	8260B	9714
Naphthalene	ND	ug/l	5.0	5.0	1	5/26/01	22:04	N. Hurt	8260B	9714
n-Propylbenzene	ND	ug/l	2.0	2.0	1	5/26/01	22:04	N. Hurt	8260B	9714
Styrene	ND	ug/l	2.0	2.0	1	5/26/01	22:04	N. Hurt	8260B	9714
1,1,1,2-Tetrachloroethane	ND	ug/l	2.0	2.0	1	5/26/01	22:04	N. Hurt	8260B	9714
1,1,2,2-Tetrachloroethane	ND	ug/l	2.0	2.0	1	5/26/01	22:04	N. Hurt	8260B	9714
Tetrachloroethene	ND	ug/l	2.0	2.0	1	5/26/01	22:04	N. Hurt	8260B	9714
Toluene	ND	ug/l	2.0	2.0	1	5/26/01	22:04	N. Hurt	8260B	9714
1,2,3-Trichlorobenzene	ND	ug/l	2.0	2.0	1	5/26/01	22:04	N. Hurt	8260B	9714
1,2,4-Trichlorobenzene	ND	ug/l	2.0	2.0	1	5/26/01	22:04	N. Hurt	8260B	9714
1,1,1-Trichloroethane	ND	ug/l	2.0	2.0	1	5/26/01	22:04	N. Hurt	8260B	9714
1,1,2-Trichloroethane	ND	ug/l	2.0	2.0	1	5/26/01	22:04	N. Hurt	8260B	9714
Trichloroethene	ND	ug/l	2.0	2.0	1	5/26/01	22:04	N. Hurt	8260B	9714
1,2,3-Trichloropropane	ND	ug/l	2.0	2.0	1	5/26/01	22:04	N. Hurt	8260B	9714
1,2,4-Trimethylbenzene	ND	ug/l	2.0	2.0	1	5/26/01	22:04	N. Hurt	8260B	9714
1,3,5-Trimethylbenzene	ND	ug/l	2.0	2.0	1	5/26/01	22:04	N. Hurt	8260B	9714
Vinyl chloride	ND	ug/l	2.0	2.0	1	5/26/01	22:04	N. Hurt	8260B	9714
Xylenes, Total	ND	ug/l	2.0	2.0	1	5/26/01	22:04	N. Hurt	8260B	9714
Bromodichloromethane	ND	ug/l	2.0	2.0	1	5/26/01	22:04	N. Hurt	8260B	9714
Trichlorofluoromethane	ND	ug/l	2.0	2.0	1	5/26/01	22:04	N. Hurt	8260B	9714
PESTICIDES/PCB's/HERBICIDES										
Aroclor 1016	ND	ug/l	0.50	0.50	1	6/ 1/01	9:07	M. Cauthen	8082	2362
Aroclor 1221	ND	ug/l	1.00	1.00	1	6/ 1/01	9:07	M. Cauthen	8082	2362
Aroclor 1232	ND	ug/l	0.50	0.50	1	6/ 1/01	9:07	M. Cauthen	8082	2362
Aroclor 1242	ND	ug/l	0.50	0.50	1	6/ 1/01	9:07	M. Cauthen	8082	2362

nple report continued . . .

TestAmerica
INCORPORATED

ANALYTICAL REPORT

Laboratory Number: 01-A70079
Sample ID: MW-C
Project: 2691A
Page 5

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
Aroclor 1248	ND	ug/l	0.50	0.50	1	6/ 1/01	9:07	M. Cauthen	8082	2362
Aroclor 1254	ND	ug/l	0.50	0.50	1	6/ 1/01	9:07	M. Cauthen	8082	2362
Aroclor 1260	ND	ug/l	0.50	0.50	1	6/ 1/01	9:07	M. Cauthen	8082	2362
METALS										
Arsenic, Total	129.	ug/l	5.00	5.00	1	5/29/01	8:40	G.Robinson	6010B	9967
Barium, Total	1270.	ug/l	10.00	10.00	1	5/29/01	8:40	G.Robinson	6010B	9967
Cadmium, total	ND	ug/l	1.000	1.000	1	5/29/01	8:40	G.Robinson	6010B	9967
Chromium, total	122.0	ug/l	5.000	5.000	1	5/29/01	8:40	G.Robinson	6010B	9967
Lead	57.00	ug/l	3.000	3.000	1	5/29/01	8:40	G.Robinson	6010B	9967
Mercury	0.37000	ug/l	0.20000	0.20000	1	5/26/01	10:57	G.McCord	7470	9271
Selenium, Total	ND	ug/l	5.000	5.000	1	5/29/01	8:40	G.Robinson	6010B	9967
Silver, Total	ND	ug/l	5.0000	5.0000	1	5/29/01	8:40	G.Robinson	6010B	9967

ND - Not detected at the report limit.

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Time	Analyst	Method
BNA's	920. ml	1.0 ml	5/27/01		J. Rudden	3510/625
PCB's	500. ml	5.00 ml	5/29/01		D.Yeager	3510/608

Surrogate	% Recovery	Target Range
VOA Surr, 1,2-DCA, d4	100.	68. - 143.
VOA Surr, Toluene d8	107.	78. - 127.
VOA Surr, 4-BFB	105.	73. - 127.
VOA Surr, DBFM	106.	76. - 135.
BNA Surr-Nitrobenzene-d5	67.	20. - 118.
BNA Surr-2-Fluorobiphenyl	72.	18. - 116.

:ple report continued . . .

TestAmerica
INCORPORATED

ANALYTICAL REPORT

Laboratory Number: 01-A70079
Sample ID: MW-C
Project: 2691A
Page 6

Surrogate	% Recovery	Target Range
BNA Surr-Terphenyl d14	48.	10. - 119.
BNA Surr-Phenol-d5	21.	10. - 69.
BNA Surr-2-Fluorophenol	32.	10. - 148.
BNA Surr-2,4,6-Tribromophenol	105.	17. - 155.
pcb surr - TCMX	98.	10. - 164.
pcb surr-PCB	83.	10. - 157.

- Recovery outside Laboratory historical limits.

All results reported on a wet weight basis.

These results relate only to the items tested.
This report shall not be reproduced except in full and with permission of the laboratory.

Report Approved By: _____ Report Date: 6/ 4/01

Paul E. Lane, Jr., Lab Director
Michael H. Dunn, M.S., Technical Director
Johnny A. Mitchell, Dir. Technical Serv.
Eric S. Smith, Assistant Technical Director
Gail A. Lage, Technical Serv.
Glenn L. Norton, Technical Serv.
Kelly S. Comstock, Technical Serv.
Pamela A. Langford, Technical Serv.

Laboratory Certification Number: AZ0473

nd of Sample Report.

TestAmerica
INCORPORATED

ANALYTICAL REPORT

KERAMIDA ENVIRONMENTAL 6028
KRISTEN BELLCREDI
330 N. COLLEGE AVENUE
INDIANAPOLIS, IN 46202

Lab Number: 01-A70080
Sample ID: MW-D
Sample Type: Ground water
Site ID:

Project: 2691A
Project Name: FRUEHAUF-PHOENIX
Sampler: B.H.

Date Collected: 5/24/01
Time Collected: 10:45
Date Received: 5/25/01
Time Received: 9:00

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
EXTRACTABLE ORGANICS										
Acenaphthene	ND	ug/l	11.1	10.0	1	5/31/01	1:06	B.Davis	8270C	1485
Acenaphthylene	ND	ug/l	11.1	10.0	1	5/31/01	1:06	B.Davis	8270C	1485
Anthracene	ND	ug/l	11.1	10.0	1	5/31/01	1:06	B.Davis	8270C	1485
Benzo(a)anthracene	ND	ug/l	11.1	10.0	1	5/31/01	1:06	B.Davis	8270C	1485
Benzo(a)pyrene	ND	ug/l	11.1	10.0	1	5/31/01	1:06	B.Davis	8270C	1485
Benzo(b)fluoranthene	ND	ug/l	11.1	10.0	1	5/31/01	1:06	B.Davis	8270C	1485
Benzo(g,h,i)perylene	ND	ug/l	11.1	10.0	1	5/31/01	1:06	B.Davis	8270C	1485
Benzo(k)fluoranthene	ND	ug/l	11.1	10.0	1	5/31/01	1:06	B.Davis	8270C	1485
4-Bromophenyl-phenylether	ND	ug/l	11.1	10.0	1	5/31/01	1:06	B.Davis	8270C	1485
Butylbenzylphthalate	ND	ug/l	11.1	10.0	1	5/31/01	1:06	B.Davis	8270C	1485
Carbazole	ND	ug/l	11.1	10.0	1	5/31/01	1:06	B.Davis	8270C	1485
4-Chloro-3-methylphenol	ND	ug/l	11.1	10.0	1	5/31/01	1:06	B.Davis	8270C	1485
4-Chloroaniline	ND	ug/l	11.1	10.0	1	5/31/01	1:06	B.Davis	8270C	1485
Bis(2-chloroethoxy)methane	ND	ug/l	11.1	10.0	1	5/31/01	1:06	B.Davis	8270C	1485
Bis(2-chloroethyl)ether	ND	ug/l	11.1	10.0	1	5/31/01	1:06	B.Davis	8270C	1485
Bis(2-chloroisopropyl)ether	ND	ug/l	11.1	10.0	1	5/31/01	1:06	B.Davis	8270C	1485
2-Chloronaphthalene	ND	ug/l	11.1	10.0	1	5/31/01	1:06	B.Davis	8270C	1485
2-Chlorophenol	ND	ug/l	11.1	10.0	1	5/31/01	1:06	B.Davis	8270C	1485
4-Chlorophenyl-phenylether	ND	ug/l	11.1	10.0	1	5/31/01	1:06	B.Davis	8270C	1485
Chrysene	ND	ug/l	11.1	10.0	1	5/31/01	1:06	B.Davis	8270C	1485
Dibenzofuran	ND	ug/l	11.1	10.0	1	5/31/01	1:06	B.Davis	8270C	1485
Dibenz(a,h)anthracene	ND	ug/l	11.1	10.0	1	5/31/01	1:06	B.Davis	8270C	1485
1,2-Dichlorobenzene	ND	ug/l	11.1	10.0	1	5/31/01	1:06	B.Davis	8270C	1485
1,3-Dichlorobenzene	ND	ug/l	11.1	10.0	1	5/31/01	1:06	B.Davis	8270C	1485
1,4-Dichlorobenzene	ND	ug/l	11.1	10.0	1	5/31/01	1:06	B.Davis	8270C	1485
3,3'-Dichlorobenzidine	ND	ug/l	11.1	10.0	1	5/31/01	1:06	B.Davis	8270C	1485
2,4-Dichlorophenol	ND	ug/l	11.1	10.0	1	5/31/01	1:06	B.Davis	8270C	1485

nple report continued . . .

TestAmerica
INCORPORATED

ANALYTICAL REPORT

Laboratory Number: 01-A70080
Sample ID: MW-D
Project: 2691A
Page 2

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
Diethylphthalate	ND	ug/l	11.1	10.0	1	5/31/01	1:06	B.Davis	8270C	1485
2,4-Dimethylphenol	ND	ug/l	11.1	10.0	1	5/31/01	1:06	B.Davis	8270C	1485
Dimethylphthalate	ND	ug/l	11.1	10.0	1	5/31/01	1:06	B.Davis	8270C	1485
Di-n-Butylphthalate	ND	ug/l	11.1	10.0	1	5/31/01	1:06	B.Davis	8270C	1485
4,6-Dinitro-2-methylphenol	ND	ug/l	11.1	10.0	1	5/31/01	1:06	B.Davis	8270C	1485
2,4-Dinitrophenol	ND	ug/l	11.1	10.0	1	5/31/01	1:06	B.Davis	8270C	1485
2,4-dinitrotoluene	ND	ug/l	11.1	10.0	1	5/31/01	1:06	B.Davis	8270C	1485
2,6-Dinitrotoluene	ND	ug/l	11.1	10.0	1	5/31/01	1:06	B.Davis	8270C	1485
Di-n-octylphthalate	ND	ug/l	11.1	10.0	1	5/31/01	1:06	B.Davis	8270C	1485
Fluoranthene	ND	ug/l	11.1	10.0	1	5/31/01	1:06	B.Davis	8270C	1485
Fluorene	ND	ug/l	11.1	10.0	1	5/31/01	1:06	B.Davis	8270C	1485
Hexachlorobenzene	ND	ug/l	11.1	10.0	1	5/31/01	1:06	B.Davis	8270C	1485
Hexachlorobutadiene	ND	ug/l	11.1	10.0	1	5/31/01	1:06	B.Davis	8270C	1485
Hexachlorocyclopentadiene	ND	ug/l	11.1	10.0	1	5/31/01	1:06	B.Davis	8270C	1485
Hexachloroethane	ND	ug/l	11.1	10.0	1	5/31/01	1:06	B.Davis	8270C	1485
Indeno(1,2,3-cd)pyrene	ND	ug/l	11.1	10.0	1	5/31/01	1:06	B.Davis	8270C	1485
Isophorone	ND	ug/l	11.1	10.0	1	5/31/01	1:06	B.Davis	8270C	1485
2-Methylnaphthalene	ND	ug/l	11.1	10.0	1	5/31/01	1:06	B.Davis	8270C	1485
2-Methylphenol	ND	ug/l	11.1	10.0	1	5/31/01	1:06	B.Davis	8270C	1485
3 and 4-Methylphenol	ND	ug/l	11.1	10.0	1	5/31/01	1:06	B.Davis	8270C	1485
Naphthalene	ND	ug/l	11.1	10.0	1	5/31/01	1:06	B.Davis	8270C	1485
2-Nitroaniline	ND	ug/l	11.1	10.0	1	5/31/01	1:06	B.Davis	8270C	1485
3-Nitroaniline	ND	ug/l	11.1	10.0	1	5/31/01	1:06	B.Davis	8270C	1485
4-Nitroaniline	ND	ug/l	11.1	10.0	1	5/31/01	1:06	B.Davis	8270C	1485
Nitrobenzene	ND	ug/l	11.1	10.0	1	5/31/01	1:06	B.Davis	8270C	1485
2-Nitrophenol	ND	ug/l	11.1	10.0	1	5/31/01	1:06	B.Davis	8270C	1485
4-Nitrophenol	ND	ug/l	11.1	10.0	1	5/31/01	1:06	B.Davis	8270C	1485
N-Nitroso-Di-n-Propylamine	ND	ug/l	11.1	10.0	1	5/31/01	1:06	B.Davis	8270C	1485
N-Nitrosodiphenylamine	ND	ug/l	11.1	10.0	1	5/31/01	1:06	B.Davis	8270C	1485
Pentachlorophenol	ND	ug/l	11.1	10.0	1	5/31/01	1:06	B.Davis	8270C	1485
Phenanthrene	ND	ug/l	11.1	10.0	1	5/31/01	1:06	B.Davis	8270C	1485
Phenol	ND	ug/l	11.1	10.0	1	5/31/01	1:06	B.Davis	8270C	1485
Pyrene	ND	ug/l	11.1	10.0	1	5/31/01	1:06	B.Davis	8270C	1485
Bis(2-ethylhexyl)phthalate	ND	ug/l	11.1	10.0	1	5/31/01	1:06	B.Davis	8270C	1485
1,2,4-Trichlorobenzene	ND	ug/l	11.1	10.0	1	5/31/01	1:06	B.Davis	8270C	1485
2,4,5-Trichlorophenol	ND	ug/l	11.1	10.0	1	5/31/01	1:06	B.Davis	8270C	1485

aple report continued . . .

TestAmerica
INCORPORATED

ANALYTICAL REPORT

Laboratory Number: 01-A70080
Sample ID: MW-D
Project: 2691A

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
2,4,6-Trichlorophenol	ND	ug/l	11.1	10.0	1	5/31/01	1:06	B.Davis	8270C	1485
VOLATILE ORGANICS										
Acetone	ND	ug/l	50.0	50.0	1	5/26/01	22:41	N. Hurt	8260B	9714
Benzene	ND	ug/l	2.0	2.0	1	5/26/01	22:41	N. Hurt	8260B	9714
Bromobenzene	ND	ug/l	2.0	2.0	1	5/26/01	22:41	N. Hurt	8260B	9714
Bromochloromethane	ND	ug/l	2.0	2.0	1	5/26/01	22:41	N. Hurt	8260B	9714
Bromoform	ND	ug/l	2.0	2.0	1	5/26/01	22:41	N. Hurt	8260B	9714
Bromomethane	ND	ug/l	2.0	2.0	1	5/26/01	22:41	N. Hurt	8260B	9714
2-Butanone	ND	ug/l	50.0	50.0	1	5/26/01	22:41	N. Hurt	8260B	9714
n-Butylbenzene	ND	ug/l	2.0	2.0	1	5/26/01	22:41	N. Hurt	8260B	9714
sec-Butylbenzene	ND	ug/l	2.0	2.0	1	5/26/01	22:41	N. Hurt	8260B	9714
t-Butylbenzene	ND	ug/l	2.0	2.0	1	5/26/01	22:41	N. Hurt	8260B	9714
Carbon disulfide	ND	ug/l	2.0	2.0	1	5/26/01	22:41	N. Hurt	8260B	9714
Carbon tetrachloride	ND	ug/l	2.0	2.0	1	5/26/01	22:41	N. Hurt	8260B	9714
Chlorobenzene	ND	ug/l	2.0	2.0	1	5/26/01	22:41	N. Hurt	8260B	9714
Chloroethane	ND	ug/l	2.0	2.0	1	5/26/01	22:41	N. Hurt	8260B	9714
Chloroform	ND	ug/l	2.0	2.0	1	5/26/01	22:41	N. Hurt	8260B	9714
Chloromethane	ND	ug/l	2.0	2.0	1	5/26/01	22:41	N. Hurt	8260B	9714
2-Chlorotoluene	ND	ug/l	2.0	2.0	1	5/26/01	22:41	N. Hurt	8260B	9714
4-Chlorotoluene	ND	ug/l	2.0	2.0	1	5/26/01	22:41	N. Hurt	8260B	9714
1,2-Dibromo-3-chloropropane	ND	ug/l	10.0	10.0	1	5/26/01	22:41	N. Hurt	8260B	9714
Dibromochloromethane	ND	ug/l	2.0	2.0	1	5/26/01	22:41	N. Hurt	8260B	9714
1,2-Dibromoethane	ND	ug/l	2.0	2.0	1	5/26/01	22:41	N. Hurt	8260B	9714
Dibromomethane	ND	ug/l	2.0	2.0	1	5/26/01	22:41	N. Hurt	8260B	9714
1,2-Dichlorobenzene	ND	ug/l	2.0	2.0	1	5/26/01	22:41	N. Hurt	8260B	9714
1,3-Dichlorobenzene	ND	ug/l	2.0	2.0	1	5/26/01	22:41	N. Hurt	8260B	9714
1,4-Dichlorobenzene	ND	ug/l	2.0	2.0	1	5/26/01	22:41	N. Hurt	8260B	9714
Dichlorodifluoromethane	ND	ug/l	2.0	2.0	1	5/26/01	22:41	N. Hurt	8260B	9714
1,1-Dichloroethane	ND	ug/l	2.0	2.0	1	5/26/01	22:41	N. Hurt	8260B	9714
1,2-Dichloroethane	ND	ug/l	2.0	2.0	1	5/26/01	22:41	N. Hurt	8260B	9714
1,1-Dichloroethene	ND	ug/l	2.0	2.0	1	5/26/01	22:41	N. Hurt	8260B	9714
cis-1,2-Dichloroethene	ND	ug/l	2.0	2.0	1	5/26/01	22:41	N. Hurt	8260B	9714
trans-1,2-Dichloroethene	ND	ug/l	2.0	2.0	1	5/26/01	22:41	N. Hurt	8260B	9714
1,2-Dichloropropane	ND	ug/l	2.0	2.0	1	5/26/01	22:41	N. Hurt	8260B	9714
1,3-Dichloropropane	ND	ug/l	2.0	2.0	1	5/26/01	22:41	N. Hurt	8260B	9714

ple report continued . . .

TestAmerica
INCORPORATED

ANALYTICAL REPORT

Laboratory Number: 01-A70080
Sample ID: MW-D
Project: 2691A
Page 4

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
2,2-Dichloropropane	ND	ug/l	2.0	2.0	1	5/26/01	22:41	N. Hurt	8260B	9714
1,1-Dichloropropene	ND	ug/l	2.0	2.0	1	5/26/01	22:41	N. Hurt	8260B	9714
cis-1,3-Dichloropropene	ND	ug/l	2.0	2.0	1	5/26/01	22:41	N. Hurt	8260B	9714
trans-1,3-Dichloropropene	ND	ug/l	2.0	2.0	1	5/26/01	22:41	N. Hurt	8260B	9714
Ethylbenzene	ND	ug/l	2.0	2.0	1	5/26/01	22:41	N. Hurt	8260B	9714
Hexachlorobutadiene	ND	ug/l	2.0	2.0	1	5/26/01	22:41	N. Hurt	8260B	9714
2-Hexanone	ND	ug/l	10.0	10.0	1	5/26/01	22:41	N. Hurt	8260B	9714
Isopropylbenzene	ND	ug/l	2.0	2.0	1	5/26/01	22:41	N. Hurt	8260B	9714
4-Isopropyltoluene	ND	ug/l	2.0	2.0	1	5/26/01	22:41	N. Hurt	8260B	9714
4-Methyl-2-pentanone	ND	ug/l	10.0	10.0	1	5/26/01	22:41	N. Hurt	8260B	9714
Methylene chloride	ND	ug/l	5.0	5.0	1	5/26/01	22:41	N. Hurt	8260B	9714
Naphthalene	ND	ug/l	5.0	5.0	1	5/26/01	22:41	N. Hurt	8260B	9714
n-Propylbenzene	ND	ug/l	2.0	2.0	1	5/26/01	22:41	N. Hurt	8260B	9714
Styrene	ND	ug/l	2.0	2.0	1	5/26/01	22:41	N. Hurt	8260B	9714
1,1,1,2-Tetrachloroethane	ND	ug/l	2.0	2.0	1	5/26/01	22:41	N. Hurt	8260B	9714
1,1,2,2-Tetrachloroethane	ND	ug/l	2.0	2.0	1	5/26/01	22:41	N. Hurt	8260B	9714
Tetrachloroethene	ND	ug/l	2.0	2.0	1	5/26/01	22:41	N. Hurt	8260B	9714
Toluene	ND	ug/l	2.0	2.0	1	5/26/01	22:41	N. Hurt	8260B	9714
1,2,3-Trichlorobenzene	ND	ug/l	2.0	2.0	1	5/26/01	22:41	N. Hurt	8260B	9714
1,2,4-Trichlorobenzene	ND	ug/l	2.0	2.0	1	5/26/01	22:41	N. Hurt	8260B	9714
1,1,1-Trichloroethane	ND	ug/l	2.0	2.0	1	5/26/01	22:41	N. Hurt	8260B	9714
1,1,2-Trichloroethane	ND	ug/l	2.0	2.0	1	5/26/01	22:41	N. Hurt	8260B	9714
Trichloroethene	ND	ug/l	2.0	2.0	1	5/26/01	22:41	N. Hurt	8260B	9714
1,2,3-Trichloropropane	ND	ug/l	2.0	2.0	1	5/26/01	22:41	N. Hurt	8260B	9714
1,2,4-Trimethylbenzene	ND	ug/l	2.0	2.0	1	5/26/01	22:41	N. Hurt	8260B	9714
1,3,5-Trimethylbenzene	ND	ug/l	2.0	2.0	1	5/26/01	22:41	N. Hurt	8260B	9714
Vinyl chloride	ND	ug/l	2.0	2.0	1	5/26/01	22:41	N. Hurt	8260B	9714
Xylenes, Total	ND	ug/l	2.0	2.0	1	5/26/01	22:41	N. Hurt	8260B	9714
Bromodichloromethane	ND	ug/l	2.0	2.0	1	5/26/01	22:41	N. Hurt	8260B	9714
Trichlorofluoromethane	ND	ug/l	2.0	2.0	1	5/26/01	22:41	N. Hurt	8260B	9714
PESTICIDES/PCB's/HERBICIDES										
Aroclor 1016	ND	ug/l	0.50	0.50	1	6/ 1/01	9:31	M. Cauthen	8082	2362
Aroclor 1221	ND	ug/l	1.00	1.00	1	6/ 1/01	9:31	M. Cauthen	8082	2362
Aroclor 1232	ND	ug/l	0.50	0.50	1	6/ 1/01	9:31	M. Cauthen	8082	2362
Aroclor 1242	ND	ug/l	0.50	0.50	1	6/ 1/01	9:31	M. Cauthen	8082	2362

ple report continued . . .

TestAmerica
INCORPORATED

ANALYTICAL REPORT

Laboratory Number: 01-A70080
Sample ID: MW-D
Project: 2691A
Page 5

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
Aroclor 1248	ND	ug/l	0.50	0.50	1	6/ 1/01	9:31	M. Cauthen	8082	2362
Aroclor 1254	ND	ug/l	0.50	0.50	1	6/ 1/01	9:31	M. Cauthen	8082	2362
Aroclor 1260	ND	ug/l	0.50	0.50	1	6/ 1/01	9:31	M. Cauthen	8082	2362
METALS										
Arsenic, Total	122.	ug/l	5.00	5.00	1	5/29/01	8:40	G.Robinson	6010B	9967
Barium, Total	932.0	ug/l	10.00	10.00	1	5/29/01	8:40	G.Robinson	6010B	9967
Cadmium, total	ND	ug/l	1.000	1.000	1	5/29/01	8:40	G.Robinson	6010B	9967
Chromium, total	163.0	ug/l	5.000	5.000	1	5/29/01	8:40	G.Robinson	6010B	9967
Lead	49.00	ug/l	3.000	3.000	1	5/29/01	8:40	G.Robinson	6010B	9967
Mercury	0.26000	ug/l	0.20000	0.20000	1	5/26/01	10:57	G.McCord	7470	9271
Selenium, Total	ND	ug/l	5.000	5.000	1	5/29/01	8:40	G.Robinson	6010B	9967
Silver, Total	ND	ug/l	5.0000	5.0000	1	5/29/01	8:40	G.Robinson	6010B	9967

ND - Not detected at the report limit.

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Time	Analyst	Method
BNA's	900. ml	1.0 ml	5/27/01		J. Rudden	3510/625
PCB's	500. ml	5.00 ml	5/29/01		D.Yeager	3510/608

Surrogate	% Recovery	Target Range
VOA Surr, 1,2-DCA, d4	99.	68. - 143.
VOA Surr, Toluene d8	108.	78. - 127.
VOA Surr, 4-BFB	106.	73. - 127.
VOA Surr, DBFM	106.	76. - 135.
BNA Surr-Nitrobenzene-d5	76.	20. - 118.
BNA Surr-2-Fluorobiphenyl	79.	18. - 116.

ple report continued . . .

TestAmerica
INCORPORATED

ANALYTICAL REPORT

Laboratory Number: 01-A70080
Sample ID: MW-D
Project: 2691A
Page 6

Surrogate	% Recovery	Target Range
BNA Surr-Terphenyl d14	48.	10. - 119.
BNA Surr-Phenol-d5	25.	10. - 69.
BNA Surr-2-Fluorophenol	37.	10. - 148.
BNA Surr-2,4,6-Tribromophenol	117.	17. - 155.
pcb surr - TCMX	107.	10. - 164.
pcb surr-PCB	102.	10. - 157.

- Recovery outside Laboratory historical limits.

All results reported on a wet weight basis.

These results relate only to the items tested.
This report shall not be reproduced except in full and with permission of the laboratory.

Report Approved By: _____ Report Date: 6/ 4/01

Paul E. Lane, Jr., Lab Director
Michael H. Dunn, M.S., Technical Director
Johnny A. Mitchell, Dir. Technical Serv.
Eric S. Smith, Assistant Technical Director
Gail A. Lage, Technical Serv.
Glenn L. Norton, Technical Serv.
Kelly S. Comstock, Technical Serv.
Pamela A. Langford, Technical Serv.

Laboratory Certification Number: AZ0473

nd of Sample Report.

TestAmerica
INCORPORATED

ANALYTICAL REPORT

KERAMIDA ENVIRONMENTAL 6028
KRISTEN BELLCREDI
330 N. COLLEGE AVENUE
INDIANAPOLIS, IN 46202

Lab Number: 01-A70081
Sample ID: MW-D-D
Sample Type: Ground water
Site ID:

Project: 2691A
Project Name: FRUEHAUF-PHOENIX
Sampler: B.H.

Date Collected: 5/24/01
Time Collected: 10:45
Date Received: 5/25/01
Time Received: 9:00

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
EXTRACTABLE ORGANICS										
Acenaphthene	ND	ug/l	11.1	10.0	1	5/31/01	1:44	B.Davis	8270C	1485
Acenaphthylene	ND	ug/l	11.1	10.0	1	5/31/01	1:44	B.Davis	8270C	1485
Anthracene	ND	ug/l	11.1	10.0	1	5/31/01	1:44	B.Davis	8270C	1485
Benzo(a)anthracene	ND	ug/l	11.1	10.0	1	5/31/01	1:44	B.Davis	8270C	1485
Benzo(a)pyrene	ND	ug/l	11.1	10.0	1	5/31/01	1:44	B.Davis	8270C	1485
Benzo(b)fluoranthene	ND	ug/l	11.1	10.0	1	5/31/01	1:44	B.Davis	8270C	1485
Benzo(g,h,i)perylene	ND	ug/l	11.1	10.0	1	5/31/01	1:44	B.Davis	8270C	1485
Benzo(k)fluoranthene	ND	ug/l	11.1	10.0	1	5/31/01	1:44	B.Davis	8270C	1485
4-Bromophenyl-phenylether	ND	ug/l	11.1	10.0	1	5/31/01	1:44	B.Davis	8270C	1485
Butylbenzylphthalate	ND	ug/l	11.1	10.0	1	5/31/01	1:44	B.Davis	8270C	1485
Carbazole	ND	ug/l	11.1	10.0	1	5/31/01	1:44	B.Davis	8270C	1485
4-Chloro-3-methylphenol	ND	ug/l	11.1	10.0	1	5/31/01	1:44	B.Davis	8270C	1485
4-Chloroaniline	ND	ug/l	11.1	10.0	1	5/31/01	1:44	B.Davis	8270C	1485
Bis(2-chloroethoxy)methane	ND	ug/l	11.1	10.0	1	5/31/01	1:44	B.Davis	8270C	1485
Bis(2-chloroethyl)ether	ND	ug/l	11.1	10.0	1	5/31/01	1:44	B.Davis	8270C	1485
Bis(2-chloroisopropyl)ether	ND	ug/l	11.1	10.0	1	5/31/01	1:44	B.Davis	8270C	1485
2-Chloronaphthalene	ND	ug/l	11.1	10.0	1	5/31/01	1:44	B.Davis	8270C	1485
2-Chlorophenol	ND	ug/l	11.1	10.0	1	5/31/01	1:44	B.Davis	8270C	1485
4-Chlorophenyl-phenylether	ND	ug/l	11.1	10.0	1	5/31/01	1:44	B.Davis	8270C	1485
Chrysene	ND	ug/l	11.1	10.0	1	5/31/01	1:44	B.Davis	8270C	1485
Dibenzofuran	ND	ug/l	11.1	10.0	1	5/31/01	1:44	B.Davis	8270C	1485
Dibenz(a,h)anthracene	ND	ug/l	11.1	10.0	1	5/31/01	1:44	B.Davis	8270C	1485
1,2-Dichlorobenzene	ND	ug/l	11.1	10.0	1	5/31/01	1:44	B.Davis	8270C	1485
1,3-Dichlorobenzene	ND	ug/l	11.1	10.0	1	5/31/01	1:44	B.Davis	8270C	1485
1,4-Dichlorobenzene	ND	ug/l	11.1	10.0	1	5/31/01	1:44	B.Davis	8270C	1485
3,3'-Dichlorobenzidine	ND	ug/l	11.1	10.0	1	5/31/01	1:44	B.Davis	8270C	1485
2,4-Dichlorophenol	ND	ug/l	11.1	10.0	1	5/31/01	1:44	B.Davis	8270C	1485

mple report continued . . .

TestAmerica
INCORPORATED

ANALYTICAL REPORT

Laboratory Number: 01-A70081
Sample ID: MW-D-D
Project: 2691A
Page 2

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
Diethylphthalate	ND	ug/l	11.1	10.0	1	5/31/01	1:44	B.Davis	8270C	1485
2,4-Dimethylphenol	ND	ug/l	11.1	10.0	1	5/31/01	1:44	B.Davis	8270C	1485
Dimethylphthalate	ND	ug/l	11.1	10.0	1	5/31/01	1:44	B.Davis	8270C	1485
Di-n-Butylphthalate	ND	ug/l	11.1	10.0	1	5/31/01	1:44	B.Davis	8270C	1485
4,6-Dinitro-2-methylphenol	ND	ug/l	11.1	10.0	1	5/31/01	1:44	B.Davis	8270C	1485
2,4-Dinitrophenol	ND	ug/l	11.1	10.0	1	5/31/01	1:44	B.Davis	8270C	1485
2,4-dinitrotoluene	ND	ug/l	11.1	10.0	1	5/31/01	1:44	B.Davis	8270C	1485
2,6-Dinitrotoluene	ND	ug/l	11.1	10.0	1	5/31/01	1:44	B.Davis	8270C	1485
Di-n-octylphthalate	ND	ug/l	11.1	10.0	1	5/31/01	1:44	B.Davis	8270C	1485
Fluoranthene	ND	ug/l	11.1	10.0	1	5/31/01	1:44	B.Davis	8270C	1485
Fluorene	ND	ug/l	11.1	10.0	1	5/31/01	1:44	B.Davis	8270C	1485
Hexachlorobenzene	ND	ug/l	11.1	10.0	1	5/31/01	1:44	B.Davis	8270C	1485
Hexachlorobutadiene	ND	ug/l	11.1	10.0	1	5/31/01	1:44	B.Davis	8270C	1485
Hexachlorocyclopentadiene	ND	ug/l	11.1	10.0	1	5/31/01	1:44	B.Davis	8270C	1485
Hexachloroethane	ND	ug/l	11.1	10.0	1	5/31/01	1:44	B.Davis	8270C	1485
Indeno(1,2,3-cd)pyrene	ND	ug/l	11.1	10.0	1	5/31/01	1:44	B.Davis	8270C	1485
Isophorone	ND	ug/l	11.1	10.0	1	5/31/01	1:44	B.Davis	8270C	1485
2-Methylnaphthalene	ND	ug/l	11.1	10.0	1	5/31/01	1:44	B.Davis	8270C	1485
2-Methylphenol	ND	ug/l	11.1	10.0	1	5/31/01	1:44	B.Davis	8270C	1485
3 and 4-Methylphenol	ND	ug/l	11.1	10.0	1	5/31/01	1:44	B.Davis	8270C	1485
Naphthalene	ND	ug/l	11.1	10.0	1	5/31/01	1:44	B.Davis	8270C	1485
2-Nitroaniline	ND	ug/l	11.1	10.0	1	5/31/01	1:44	B.Davis	8270C	1485
3-Nitroaniline	ND	ug/l	11.1	10.0	1	5/31/01	1:44	B.Davis	8270C	1485
4-Nitroaniline	ND	ug/l	11.1	10.0	1	5/31/01	1:44	B.Davis	8270C	1485
Nitrobenzene	ND	ug/l	11.1	10.0	1	5/31/01	1:44	B.Davis	8270C	1485
2-Nitrophenol	ND	ug/l	11.1	10.0	1	5/31/01	1:44	B.Davis	8270C	1485
4-Nitrophenol	ND	ug/l	11.1	10.0	1	5/31/01	1:44	B.Davis	8270C	1485
N-Nitroso-Di-n-Propylamine	ND	ug/l	11.1	10.0	1	5/31/01	1:44	B.Davis	8270C	1485
N-Nitrosodiphenylamine	ND	ug/l	11.1	10.0	1	5/31/01	1:44	B.Davis	8270C	1485
Pentachlorophenol	ND	ug/l	11.1	10.0	1	5/31/01	1:44	B.Davis	8270C	1485
Phenanthrene	ND	ug/l	11.1	10.0	1	5/31/01	1:44	B.Davis	8270C	1485
Phenol	ND	ug/l	11.1	10.0	1	5/31/01	1:44	B.Davis	8270C	1485
Pyrene	ND	ug/l	11.1	10.0	1	5/31/01	1:44	B.Davis	8270C	1485
Bis(2-ethylhexyl)phthalate	ND	ug/l	11.1	10.0	1	5/31/01	1:44	B.Davis	8270C	1485
1,2,4-Trichlorobenzene	ND	ug/l	11.1	10.0	1	5/31/01	1:44	B.Davis	8270C	1485
2,4,5-Trichlorophenol	ND	ug/l	11.1	10.0	1	5/31/01	1:44	B.Davis	8270C	1485

mple report continued . . .

TestAmerica
INCORPORATED

ANALYTICAL REPORT

Laboratory Number: 01-A70081
Sample ID: MW-D-D
Project: 2691A

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
2,4,6-Trichlorophenol	ND	ug/l	11.1	10.0	1	5/31/01	1:44	B.Davis	8270C	1485
VOLATILE ORGANICS										
Acetone	ND	ug/l	50.0	50.0	1	5/27/01	2:22	N. Hurt	8260B	9714
Benzene	ND	ug/l	2.0	2.0	1	5/27/01	2:22	N. Hurt	8260B	9714
Bromobenzene	ND	ug/l	2.0	2.0	1	5/27/01	2:22	N. Hurt	8260B	9714
Bromochloromethane	ND	ug/l	2.0	2.0	1	5/27/01	2:22	N. Hurt	8260B	9714
Bromoform	ND	ug/l	2.0	2.0	1	5/27/01	2:22	N. Hurt	8260B	9714
Bromomethane	ND	ug/l	2.0	2.0	1	5/27/01	2:22	N. Hurt	8260B	9714
2-Butanone	ND	ug/l	50.0	50.0	1	5/27/01	2:22	N. Hurt	8260B	9714
n-Butylbenzene	ND	ug/l	2.0	2.0	1	5/27/01	2:22	N. Hurt	8260B	9714
sec-Butylbenzene	ND	ug/l	2.0	2.0	1	5/27/01	2:22	N. Hurt	8260B	9714
t-Butylbenzene	ND	ug/l	2.0	2.0	1	5/27/01	2:22	N. Hurt	8260B	9714
Carbon disulfide	ND	ug/l	2.0	2.0	1	5/27/01	2:22	N. Hurt	8260B	9714
Carbon tetrachloride	ND	ug/l	2.0	2.0	1	5/27/01	2:22	N. Hurt	8260B	9714
Chlorobenzene	ND	ug/l	2.0	2.0	1	5/27/01	2:22	N. Hurt	8260B	9714
Chloroethane	ND	ug/l	2.0	2.0	1	5/27/01	2:22	N. Hurt	8260B	9714
Chloroform	ND	ug/l	2.0	2.0	1	5/27/01	2:22	N. Hurt	8260B	9714
Chloromethane	ND	ug/l	2.0	2.0	1	5/27/01	2:22	N. Hurt	8260B	9714
2-Chlorotoluene	ND	ug/l	2.0	2.0	1	5/27/01	2:22	N. Hurt	8260B	9714
4-Chlorotoluene	ND	ug/l	2.0	2.0	1	5/27/01	2:22	N. Hurt	8260B	9714
1,2-Dibromo-3-chloropropane	ND	ug/l	10.0	10.0	1	5/27/01	2:22	N. Hurt	8260B	9714
Dibromochloromethane	ND	ug/l	2.0	2.0	1	5/27/01	2:22	N. Hurt	8260B	9714
1,2-Dibromoethane	ND	ug/l	2.0	2.0	1	5/27/01	2:22	N. Hurt	8260B	9714
Dibromomethane	ND	ug/l	2.0	2.0	1	5/27/01	2:22	N. Hurt	8260B	9714
1,2-Dichlorobenzene	ND	ug/l	2.0	2.0	1	5/27/01	2:22	N. Hurt	8260B	9714
1,3-Dichlorobenzene	ND	ug/l	2.0	2.0	1	5/27/01	2:22	N. Hurt	8260B	9714
1,4-Dichlorobenzene	ND	ug/l	2.0	2.0	1	5/27/01	2:22	N. Hurt	8260B	9714
Dichlorodifluoromethane	ND	ug/l	2.0	2.0	1	5/27/01	2:22	N. Hurt	8260B	9714
1,1-Dichloroethane	ND	ug/l	2.0	2.0	1	5/27/01	2:22	N. Hurt	8260B	9714
1,2-Dichloroethane	ND	ug/l	2.0	2.0	1	5/27/01	2:22	N. Hurt	8260B	9714
1,1-Dichloroethene	ND	ug/l	2.0	2.0	1	5/27/01	2:22	N. Hurt	8260B	9714
cis-1,2-Dichloroethene	ND	ug/l	2.0	2.0	1	5/27/01	2:22	N. Hurt	8260B	9714
trans-1,2-Dichloroethene	ND	ug/l	2.0	2.0	1	5/27/01	2:22	N. Hurt	8260B	9714
1,2-Dichloropropane	ND	ug/l	2.0	2.0	1	5/27/01	2:22	N. Hurt	8260B	9714
1,3-Dichloropropane	ND	ug/l	2.0	2.0	1	5/27/01	2:22	N. Hurt	8260B	9714

ple report continued . . .

TestAmerica
INCORPORATED

ANALYTICAL REPORT

Laboratory Number: 01-A70081
Sample ID: MW-D-D
Project: 2691A

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
2,2-Dichloropropane	ND	ug/l	2.0	2.0	1	5/27/01	2:22	N. Hurt	8260B	9714
1,1-Dichloropropene	ND	ug/l	2.0	2.0	1	5/27/01	2:22	N. Hurt	8260B	9714
cis-1,3-Dichloropropene	ND	ug/l	2.0	2.0	1	5/27/01	2:22	N. Hurt	8260B	9714
trans-1,3-Dichloropropene	ND	ug/l	2.0	2.0	1	5/27/01	2:22	N. Hurt	8260B	9714
Ethylbenzene	ND	ug/l	2.0	2.0	1	5/27/01	2:22	N. Hurt	8260B	9714
Hexachlorobutadiene	ND	ug/l	2.0	2.0	1	5/27/01	2:22	N. Hurt	8260B	9714
2-Hexanone	ND	ug/l	10.0	10.0	1	5/27/01	2:22	N. Hurt	8260B	9714
Isopropylbenzene	ND	ug/l	2.0	2.0	1	5/27/01	2:22	N. Hurt	8260B	9714
4-Isopropyltoluene	ND	ug/l	2.0	2.0	1	5/27/01	2:22	N. Hurt	8260B	9714
4-Methyl-2-pentanone	ND	ug/l	10.0	10.0	1	5/27/01	2:22	N. Hurt	8260B	9714
Methylene chloride	ND	ug/l	5.0	5.0	1	5/27/01	2:22	N. Hurt	8260B	9714
Naphthalene	ND	ug/l	5.0	5.0	1	5/27/01	2:22	N. Hurt	8260B	9714
n-Propylbenzene	ND	ug/l	2.0	2.0	1	5/27/01	2:22	N. Hurt	8260B	9714
Styrene	ND	ug/l	2.0	2.0	1	5/27/01	2:22	N. Hurt	8260B	9714
1,1,1,2-Tetrachloroethane	ND	ug/l	2.0	2.0	1	5/27/01	2:22	N. Hurt	8260B	9714
1,1,2,2-Tetrachloroethane	ND	ug/l	2.0	2.0	1	5/27/01	2:22	N. Hurt	8260B	9714
Tetrachloroethene	ND	ug/l	2.0	2.0	1	5/27/01	2:22	N. Hurt	8260B	9714
Toluene	ND	ug/l	2.0	2.0	1	5/27/01	2:22	N. Hurt	8260B	9714
1,2,3-Trichlorobenzene	ND	ug/l	2.0	2.0	1	5/27/01	2:22	N. Hurt	8260B	9714
1,2,4-Trichlorobenzene	ND	ug/l	2.0	2.0	1	5/27/01	2:22	N. Hurt	8260B	9714
1,1,1-Trichloroethane	ND	ug/l	2.0	2.0	1	5/27/01	2:22	N. Hurt	8260B	9714
1,1,2-Trichloroethane	ND	ug/l	2.0	2.0	1	5/27/01	2:22	N. Hurt	8260B	9714
Trichloroethene	ND	ug/l	2.0	2.0	1	5/27/01	2:22	N. Hurt	8260B	9714
1,2,3-Trichloropropane	ND	ug/l	2.0	2.0	1	5/27/01	2:22	N. Hurt	8260B	9714
1,2,4-Trimethylbenzene	ND	ug/l	2.0	2.0	1	5/27/01	2:22	N. Hurt	8260B	9714
1,3,5-Trimethylbenzene	ND	ug/l	2.0	2.0	1	5/27/01	2:22	N. Hurt	8260B	9714
Vinyl chloride	ND	ug/l	2.0	2.0	1	5/27/01	2:22	N. Hurt	8260B	9714
Xylenes, Total	ND	ug/l	2.0	2.0	1	5/27/01	2:22	N. Hurt	8260B	9714
Bromodichloromethane	ND	ug/l	2.0	2.0	1	5/27/01	2:22	N. Hurt	8260B	9714
Trichlorofluoromethane	ND	ug/l	2.0	2.0	1	5/27/01	2:22	N. Hurt	8260B	9714
PESTICIDES/PCB's/HERBICIDES										
Aroclor 1016	ND	ug/l	0.50	0.50	1	6/ 1/01	9:55	M. Cauthen	8082	2362
Aroclor 1221	ND	ug/l	1.00	1.00	1	6/ 1/01	9:55	M. Cauthen	8082	2362
Aroclor 1232	ND	ug/l	0.50	0.50	1	6/ 1/01	9:55	M. Cauthen	8082	2362
Aroclor 1242	ND	ug/l	0.50	0.50	1	6/ 1/01	9:55	M. Cauthen	8082	2362

mple report continued . . .

TestAmerica
INCORPORATED

ANALYTICAL REPORT

Laboratory Number: 01-A70081
Sample ID: MW-D-D
Project: 2691A

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
Aroclor 1248	ND	ug/l	0.50	0.50	1	6/ 1/01	9:55	M. Cauthen	8082	2362
Aroclor 1254	ND	ug/l	0.50	0.50	1	6/ 1/01	9:55	M. Cauthen	8082	2362
Aroclor 1260	ND	ug/l	0.50	0.50	1	6/ 1/01	9:55	M. Cauthen	8082	2362
METALS										
Arsenic, Total	74.0	ug/l	5.00	5.00	1	5/29/01	8:40	G.Robinson	6010B	9967
Barium, Total	729.0	ug/l	10.00	10.00	1	5/29/01	8:40	G.Robinson	6010B	9967
Cadmium, total	ND	ug/l	1.000	1.000	1	5/29/01	8:40	G.Robinson	6010B	9967
Chromium, total	77.00	ug/l	5.000	5.000	1	5/29/01	8:40	G.Robinson	6010B	9967
Lead	29.00	ug/l	3.000	3.000	1	5/29/01	8:40	G.Robinson	6010B	9967
Mercury	0.27000	ug/l	0.20000	0.20000	1	5/26/01	10:57	G.McCord	7470	9271
Selenium, Total	ND	ug/l	5.000	5.000	1	5/29/01	8:40	G.Robinson	6010B	9967
Silver, Total	ND	ug/l	5.0000	5.0000	1	5/29/01	8:40	G.Robinson	6010B	9967

ND - Not detected at the report limit.

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Time	Analyst	Method
BNA's	900. ml	1.0 ml	5/27/01		J. Rudden	3510/625
PCB's	500. ml	5.00 ml	5/29/01		D.Yeager	3510/608

Surrogate	% Recovery	Target Range
VOA Surr, 1,2-DCA, d4	101.	68. - 143.
VOA Surr, Toluene d8	111.	78. - 127.
VOA Surr, 4-BFB	104.	73. - 127.
VOA Surr, DBFM	108.	76. - 135.
BNA Surr-Nitrobenzene-d5	74.	20. - 118.
BNA Surr-2-Fluorobiphenyl	78.	18. - 116.

ple report continued . . .

TestAmerica
INCORPORATED

ANALYTICAL REPORT

Laboratory Number: 01-A70081
Sample ID: MW-D-D
Project: 2691A
Page 6

Surrogate	% Recovery	Target Range
BNA Surr-Terphenyl d14	54.	10. - 119.
BNA Surr-Phenol-d5	23.	10. - 69.
BNA Surr-2-Fluorophenol	34.	10. - 148.
BNA Surr-2,4,6-Tribromophenol	120.	17. - 155.
pcb surr - TCMX	106.	10. - 164.
pcb surr-PCB	111.	10. - 157.

- Recovery outside Laboratory historical limits.

All results reported on a wet weight basis.

These results relate only to the items tested.
This report shall not be reproduced except in full and with permission of the laboratory.

Report Approved By: Gail A. Lage Report Date: 6/ 4/01

Paul E. Lane, Jr., Lab Director
Michael H. Dunn, M.S., Technical Director
Johnny A. Mitchell, Dir. Technical Serv.
Eric S. Smith, Assistant Technical Director
Gail A. Lage, Technical Serv.
Glenn L. Norton, Technical Serv.
Kelly S. Comstock, Technical Serv.
Pamela A. Langford, Technical Serv.

Laboratory Certification Number: AZ0473

nd of Sample Report.

TestAmerica
INCORPORATED

ANALYTICAL REPORT

KERAMIDA ENVIRONMENTAL 6028
KRISTEN BELLCREDI
330 N. COLLEGE AVENUE
INDIANAPOLIS, IN 46202

Lab Number: 01-A70082
Sample ID: TRIP B
Sample Type: Ground water
Site ID:

Date Collected:
Time Collected:
Date Received: 5/25/01
Time Received: 9:00

Project: 2691A
Project Name: FRUEHAUF-PHOENIX
Sampler: B.H.

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
VOLATILE ORGANICS										
Acetone	ND	ug/l	50.0	50.0	1	5/30/01	17:59	C.Bates	8260B	2585
Benzene	ND	ug/l	2.0	2.0	1	5/30/01	17:59	C.Bates	8260B	2585
Bromobenzene	ND	ug/l	2.0	2.0	1	5/30/01	17:59	C.Bates	8260B	2585
Bromochloromethane	ND	ug/l	2.0	2.0	1	5/30/01	17:59	C.Bates	8260B	2585
Bromoform	ND	ug/l	2.0	2.0	1	5/30/01	17:59	C.Bates	8260B	2585
Bromomethane	ND	ug/l	2.0	2.0	1	5/30/01	17:59	C.Bates	8260B	2585
2-Butanone	ND	ug/l	50.0	50.0	1	5/30/01	17:59	C.Bates	8260B	2585
n-Butylbenzene	ND	ug/l	2.0	2.0	1	5/30/01	17:59	C.Bates	8260B	2585
sec-Butylbenzene	ND	ug/l	2.0	2.0	1	5/30/01	17:59	C.Bates	8260B	2585
t-Butylbenzene	ND	ug/l	2.0	2.0	1	5/30/01	17:59	C.Bates	8260B	2585
Carbon disulfide	ND	ug/l	2.0	2.0	1	5/30/01	17:59	C.Bates	8260B	2585
Carbon tetrachloride	ND	ug/l	2.0	2.0	1	5/30/01	17:59	C.Bates	8260B	2585
Chlorobenzene	ND	ug/l	2.0	2.0	1	5/30/01	17:59	C.Bates	8260B	2585
Chloroethane	ND	ug/l	2.0	2.0	1	5/30/01	17:59	C.Bates	8260B	2585
Chloroform	ND	ug/l	2.0	2.0	1	5/30/01	17:59	C.Bates	8260B	2585
Chloromethane	ND	ug/l	2.0	2.0	1	5/30/01	17:59	C.Bates	8260B	2585
2-Chlorotoluene	ND	ug/l	2.0	2.0	1	5/30/01	17:59	C.Bates	8260B	2585
4-Chlorotoluene	ND	ug/l	2.0	2.0	1	5/30/01	17:59	C.Bates	8260B	2585
1,2-Dibromo-3-chloropropane	ND	ug/l	10.0	10.0	1	5/30/01	17:59	C.Bates	8260B	2585
Dibromochloromethane	ND	ug/l	2.0	2.0	1	5/30/01	17:59	C.Bates	8260B	2585
1,2-Dibromoethane	ND	ug/l	2.0	2.0	1	5/30/01	17:59	C.Bates	8260B	2585
Dibromomethane	ND	ug/l	2.0	2.0	1	5/30/01	17:59	C.Bates	8260B	2585
1,2-Dichlorobenzene	ND	ug/l	2.0	2.0	1	5/30/01	17:59	C.Bates	8260B	2585
1,3-Dichlorobenzene	ND	ug/l	2.0	2.0	1	5/30/01	17:59	C.Bates	8260B	2585
1,4-Dichlorobenzene	ND	ug/l	2.0	2.0	1	5/30/01	17:59	C.Bates	8260B	2585
Dichlorodifluoromethane	ND	ug/l	2.0	2.0	1	5/30/01	17:59	C.Bates	8260B	2585
1,1-Dichloroethane	ND	ug/l	2.0	2.0	1	5/30/01	17:59	C.Bates	8260B	2585

ıple report continued . . .

TestAmerica
INCORPORATED

ANALYTICAL REPORT

Laboratory Number: 01-A70082
Sample ID: TRIP B
Project: 2691A
Page 2

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
1,2-Dichloroethane	ND	ug/l	2.0	2.0	1	5/30/01	17:59	C.Bates	8260B	2585
1,1-Dichloroethene	ND	ug/l	2.0	2.0	1	5/30/01	17:59	C.Bates	8260B	2585
cis-1,2-Dichloroethene	ND	ug/l	2.0	2.0	1	5/30/01	17:59	C.Bates	8260B	2585
trans-1,2-Dichloroethene	ND	ug/l	2.0	2.0	1	5/30/01	17:59	C.Bates	8260B	2585
1,2-Dichloropropane	ND	ug/l	2.0	2.0	1	5/30/01	17:59	C.Bates	8260B	2585
1,3-Dichloropropane	ND	ug/l	2.0	2.0	1	5/30/01	17:59	C.Bates	8260B	2585
2,2-Dichloropropane	ND	ug/l	2.0	2.0	1	5/30/01	17:59	C.Bates	8260B	2585
1,1-Dichloropropene	ND	ug/l	2.0	2.0	1	5/30/01	17:59	C.Bates	8260B	2585
cis-1,3-Dichloropropene	ND	ug/l	2.0	2.0	1	5/30/01	17:59	C.Bates	8260B	2585
trans-1,3-Dichloropropene	ND	ug/l	2.0	2.0	1	5/30/01	17:59	C.Bates	8260B	2585
Ethylbenzene	ND	ug/l	2.0	2.0	1	5/30/01	17:59	C.Bates	8260B	2585
Hexachlorobutadiene	ND	ug/l	2.0	2.0	1	5/30/01	17:59	C.Bates	8260B	2585
2-Hexanone	ND	ug/l	10.0	10.0	1	5/30/01	17:59	C.Bates	8260B	2585
Isopropylbenzene	ND	ug/l	2.0	2.0	1	5/30/01	17:59	C.Bates	8260B	2585
4-Isopropyltoluene	ND	ug/l	2.0	2.0	1	5/30/01	17:59	C.Bates	8260B	2585
4-Methyl-2-pentanone	ND	ug/l	10.0	10.0	1	5/30/01	17:59	C.Bates	8260B	2585
Methylene chloride	ND	ug/l	5.0	5.0	1	5/30/01	17:59	C.Bates	8260B	2585
Naphthalene	ND	ug/l	5.0	5.0	1	5/30/01	17:59	C.Bates	8260B	2585
n-Propylbenzene	ND	ug/l	2.0	2.0	1	5/30/01	17:59	C.Bates	8260B	2585
Styrene	ND	ug/l	2.0	2.0	1	5/30/01	17:59	C.Bates	8260B	2585
1,1,1,2-Tetrachloroethane	ND	ug/l	2.0	2.0	1	5/30/01	17:59	C.Bates	8260B	2585
1,1,2,2-Tetrachloroethane	ND	ug/l	2.0	2.0	1	5/30/01	17:59	C.Bates	8260B	2585
Tetrachloroethene	ND	ug/l	2.0	2.0	1	5/30/01	17:59	C.Bates	8260B	2585
Toluene	ND	ug/l	2.0	2.0	1	5/30/01	17:59	C.Bates	8260B	2585
1,2,3-Trichlorobenzene	ND	ug/l	2.0	2.0	1	5/30/01	17:59	C.Bates	8260B	2585
1,2,4-Trichlorobenzene	ND	ug/l	2.0	2.0	1	5/30/01	17:59	C.Bates	8260B	2585
1,1,1-Trichloroethane	ND	ug/l	2.0	2.0	1	5/30/01	17:59	C.Bates	8260B	2585
1,1,2-Trichloroethane	ND	ug/l	2.0	2.0	1	5/30/01	17:59	C.Bates	8260B	2585
Trichloroethene	ND	ug/l	2.0	2.0	1	5/30/01	17:59	C.Bates	8260B	2585
1,2,3-Trichloropropane	ND	ug/l	2.0	2.0	1	5/30/01	17:59	C.Bates	8260B	2585
1,2,4-Trimethylbenzene	ND	ug/l	2.0	2.0	1	5/30/01	17:59	C.Bates	8260B	2585
1,3,5-Trimethylbenzene	ND	ug/l	2.0	2.0	1	5/30/01	17:59	C.Bates	8260B	2585
Vinyl chloride	ND	ug/l	2.0	2.0	1	5/30/01	17:59	C.Bates	8260B	2585
Xylenes, Total	ND	ug/l	2.0	2.0	1	5/30/01	17:59	C.Bates	8260B	2585
Bromodichloromethane	ND	ug/l	2.0	2.0	1	5/30/01	17:59	C.Bates	8260B	2585
Trichlorofluoromethane	ND	ug/l	2.0	2.0	1	5/30/01	17:59	C.Bates	8260B	2585

ıple report continued . . .

TestAmerica
INCORPORATED

ANALYTICAL REPORT

Laboratory Number: 01-A70082
Sample ID: TRIP B
Project: 2691A
Page 3

TCLP Results

Analyte	Result	Units	Reg Limit	Matrix Spike Recovery (%)	Date	Method

ND - Not detected at the report limit.

Surrogate	% Recovery	Target Range
VOA Surr, 1,2-DCA, d4	108.	68. - 143.
VOA Surr, Toluene d8	112.	78. - 127.
VOA Surr, 4-BFB	105.	73. - 127.
VOA Surr, DBFM	121.	76. - 135.

- Recovery outside Laboratory historical limits.

All results reported on a wet weight basis.

These results relate only to the items tested.
This report shall not be reproduced except in full and with permission of the laboratory.

Report Approved By: _____ Report Date: 6/ 4/01

Paul E. Lane, Jr., Lab Director
Michael H. Dunn, M.S., Technical Director
Johnny A. Mitchell, Dir. Technical Serv.
Eric S. Smith, Assistant Technical Director

Gail A. Lage, Technical Serv.
Glenn L. Norton, Technical Serv.
Kelly S. Comstock, Technical Serv.
Pamela A. Langford, Technical Serv.

End of Sample Report.

2960 Foster Creighton Drive / Nashville,TN 37204 / 615-726-0177 / Fax: 615-726-0954 / 800-765-0980

KE. 'DA ENVIRONMENTAL, INC.

330 North College Avenue
Indianapolis, Indiana 46202
(317) 685-6600 - FAX (317) 685-6610

CHAIN OF CU JY RECORD

Sheet 1 of 1

6026 236630

Project No.	Project Name: Fruehauf - Phoenix
2961 A	Report to: Rita Boje
Client: Wabash National	Samplers (signature):
Sampled By: KERAMIDA Environmental, Inc.	

Sample ID/Description	Date	Time	Comp	Grab	HCl	NaOH	HNO_3	H_2SO_4	Other	VOCs 8260	SVOCs 8270	PCBs 8082	RCRA(8) metals	pH	Copper					MATRIX SW GW WW Soil Air Waste Oil	QA/QC Level	Detection Level	Comments
MW-A	5/24/01	0970		X	2		1		5	X	X	X	X							GW	II	Arizona	70077
MW-B		1000		X	2		1		5	X	X	X	X									UST/RCRA	78
MW-C		1020		X	2		1		5	X	X	X	X										79
MW-D		1045		X	3		1		5	X	X	X	X										80
MW-D-D		1045		X	3		1		4	X	X	X	X										70081
KSS (0-6")		0820		X					4	X	X	X	X	X	X					Soil			83
KB-6 (1.5-3')		0720		X					2	X	X		X	X									84
KB-6 (9-10')		0815		X					2	X	X		X	X									85
KB-7 (1.5-3')		0855		X					2	X	X		X	X									86
KB-7 (10.5-11.5)		1000		X					2	X	X		X	X									87
Trip					2					X													70082

Relinquished by: Sign/Date/Time	Received by: Sign/Date/Time	Relinquished by: Sign/Date/Time	Received for Lab: Sign/Date/Time
5/24/01 1220 P.T.			
Relinquished by: Sign/Date/Time	Received by: Sign/Date/Time	Relinquished by: Sign/Date/Time	Received for Lab: Sign/Date/Time 5-25-01

Remarks:

1) No method substitution will be performed by the laboratory without KERAMIDA authorization
2) Please notify KERAMIDA immediately upon receipt, if sample integrity is in question
3) If analysis cannot be conducted within required holding times, please notify KERAMIDA immediately
4) If requested detection limits cannot be achieved, please contact KERAMIDA immediately

Project Quote No. 0516013/0399

Sample Condition:
Bottle Intact? Yes/No
Field Filtered? Yes/No
COC Seals Present & Intact? Yes/No
VOC Free of Headspace? Yes/No
VOC Preserved? Yes/No
Temperature upon Receipt:

KE 'IDA ENVIRONMENTAL, INC.

330 North College Avenue
Indianapolis, Indiana 46202
(317) 685-6600 - FAX (317) 685-6610

CHAIN OF C\ )Y RECORD

Sheet 1 of __

238472 6028

Project No.	Project Name	Report to:
2961A	Fruehauf - Phoenix	Rita Boje

Client: Wabash National

Samplers: (signature)

Sampled By: KERAMIDA Environmental, Inc.

Sample ID/Description	Date	Time	Comp	Grab	HCl	NaOH	HNO_3	H_2SO_4	Other	VOCs 8260	SVOCs 8270	PCBs 8082	RCRA (8) metals	Copper	pH	MATRIX SW GW WW Soil Air Waste Oil	QA/QC Level	Detection Level	Comments
KB-1 (0.5-1.5')	5/21/01	1005		X					2	X	X	X	X	X	X	Soil	II	Arizona	68595
KB-1 (12-13.5')		1130		X					2	X	X	X	X	X	X			UST/RCRA	96
KB-2 (4-4.5')		1215		X					2	X	X	X	X	X	X				97
KB-2 (21-21.5')		1330		X					2	X	X	X	X	X	X				98
KB-3 (0.5-1.5')		1435		X					2	X	X	X	X	X	X				68599
KB-3 (10.5-12')		1515		X					2	X	X	X	X	X	X				68600
KB-4 (0-1.5')	5/22/01	0740		X					2	X	X	X	X	X	X				68601
KB-4 (10.5-11.5)		0845		X					2	X	X	X	X	X	X			68602	Run PCBs
KB-5 (0-1.5')		1100		X					2	X	X		X		X				68603
KB-5 (7.5-9)		1130		X					2										"Hold"
KB-5 (10.5-11.5)		1140		X					2	X	X		X		X				68604
KB-8 (0.5-1.5')		0920		X					2	X	X	X	X	X	X				65
KB-8 (9-10')		1000		X					2	X	X	X	X	X	X				66
Trip	5/21/01				3					X						Water			68607

Relinquished by: Sign/Date/Time	Received by: Sign/Date/Time	Relinquished by: Sign/Date/Time	Received for Lab: Sign/Date/Time
5/22/01 1449 PT			
Relinquished by: Sign/Date/Time	Received by: Sign/Date/Time	Relinquished by: Sign/Date/Time	Received for Lab: Sign/Date/Time 5/23/01 900

Remarks:

Shipped Via FedEx

1) No method substitution will be performed by the laboratory without KERAMIDA authorization
2) Please notify KERAMIDA immediately upon receipt, if sample integrity is in question
3) If analysis cannot be conducted within required holding times, please notify KERAMIDA immediately
4) If requested detection lmits cannot be achieved, please contact KERAMIDA immediately

Project Quote No. 05160131 0399

Sample Condition:
Bottle Intact? Yes/No
Field Filtered? Yes/No
COC Seals Present & Intact? Yes/No
VOC Free of Headspace? Yes/No
VOC Preserved? Yes/No
Temperature upon Receipt:

TestAmerica
INCORPORATED

COOLER RECEIPT FORM

Client: Keramida Env. BC# 238472

Cooler Received On: 5-23-01 And Opened On: 5-23-01 By: CRAIG COTHRON

(Signature)

1. Temperature of Cooler when opened 3.0 DEGREES C
2. Were custody seals on outside of cooler and intact?.....YES NO
   a. If yes,what kind and where: TAPE
   b. Were the signature and date correct?.....YES NO
3. Were custody seals on containers intact?.....YES NO
4. Were custody papers inside cooler?.....YES NO
5. Were custody papers properly filled out (ink,signed,etc)?.....YES NO
6. Did you sign the custody papers in the appropriate place?.....YES NO
7. What kind of packing material used? Bubblewrap Peanuts Other None
8. Was sufficient ice used (if appropriate)?.....YES NO
9. Did all bottles arrive in good condition(unbroken)?.....YES NO
10. Were all bottle labels complete (#,date,signed,pres,etc)?.....YES NO
11. Did all bottle labels and tags agree with custody papers?.....YES NO
12. Were correct bottles used for the analysis requested?.....YES NO
13. If present, was any observable voa headspace present?.....YES NO
14. If present, were VOA vials checked for absence of air bubbles and noted if found?....YES NO
15. Was sufficient amount of sample sent in each bottle?.....YES NO
16. Were correct preservatives used?.....YES NO
17. Was residual chlorine present (if appropriate)?.....YES NO
18. Corrective action taken, if necessary:
    a. Name of person contacted: SEE ATTACHED FOR RESOLUTION IF NEEDED
    b. Date:_____

2960 Foster Creighton Drive / Nashville,TN 37204 / 615-726-0177 / Fax: 615-726-0954 / 800-765-0980