Limited Site Assessment Report
Vickers Realty Facility
1336 South Graham Street
Charlotte, Mecklenburg County, North Carolina
Incident #: 13137
Facility ID # 0-003806

12/14/05

ARM WILL GET BACK TO ME ABOUT THE NRP SINCE THEY MAY WANT TO DIG OUT THE SMALL AMOUNT OF SOIL THAT EXCEEDS INDUSTRIAL COMMERCIAL

Prepared for:

Vickers Realty
P.O. Box 30845
Charlotte, NC 28230
704-551-4023

Prepared by:

ARM Environmental Services, PLLC
11164 Downs Road
Pineville, North Carolina 28134
(704) 369-0621 Fax (704) 369-0623

December 9, 2005

Project Number (N17-952-05)

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ARM ENVIRONMENTAL SERVICES, PLLC

ENVIRONMENTAL CONSULTING

December 9, 2005

Mr. Allen Schiff
North Carolina Department of Environment and Natural Resources
Mooresville Regional Office
Division of Waste Management – UST Section
610 East Center Avenue, Suite 301
Mooresville, NC 28115

RECEIVED
DEC 13 2005
NC DEPT. OF ENVIRONMENT
AND NATURAL RESOURCES
MOORESVILLE REGIONAL OFFICE

Re: Limited Site Assessment
Vickers Realty, Inc.
1336 South Graham Street
Charlotte, Mecklenburg County, North Carolina
Incident # 13137
Facility ID # 0-003806

Dear Mr. Schiff:

As authorized by Vickers Realty, Inc., ARM Environmental Services, PLLC is pleased to provide you with the attached Limited Site Assessment (LSA) Report for the referenced site. The LSA findings indicate moderate soil impact in the source area well borings. The downgradient and vertical extent wells contained no groundwater constituents above North Carolina 2L standards, and groundwater impact is slightly above North Carolina 2L Standards in each of the three source area monitor wells and the upgradient well. No groundwater constituents were encountered above risk-based Gross Contaminant Levels.

Given the commercial and industrial nature of the site and vicinity, as well as a lack of potential receptors, ARM respectfully requests that the UST Section consider site regulatory closure under a notice of no further action. Thank you for your regulatory assistance with the project, and please call us if you have questions.

Sincerely,

ARM Environmental Services, PLLC

Tim McCorkle
Project Manager

David A. Hunter, PG
Principal Hydrogeologist

cc: Mr. Vince Vickers, Vickers Realty, Inc.
Ms. Laura Yaeger, Attorney

11164 DOWNS ROAD, PINEVILLE, NC 28134 / (704)369-0621 fax (704)369-0623 / www.armenv.com

TITLE PAGE

Site Information: Vickers Realty, Inc. (Vacant Facility)
1336 South Graham Street
Charlotte, Mecklenburg County, North Carolina

Contact: Mr. Vince Vickers, President
Vickers Realty, Inc.
P.O. Box 30845
Charlotte, NC 28230
Phone (704) 333-2392
Fax (704) 362-0738

RECEIVED
DEC 13 2005
NC DEPT. OF ENVIRONMENT
AND NATURAL RESOURCES
MOORESVILLE REGIONAL OFFICE

Consultant: ARM Environmental Services, PLLC
11164 Downs Road
Pineville, NC 28134
Phone (704) 369-0621
Fax (704) 369-0623

Latitude: 35° 13' 19"
Longitude: 80° 51' 37"

Release Information:

Vickers Realty, Inc. has owned the property since the late 1940's, and several businesses have leased the property during Vickers Realty's ownership. Four underground storage tanks (USTs) were installed on the property in the 1950s for diesel fuel storage and were of the following sizes: 2-5,000 gallon tanks, 1-4,000 gallon, and 1-2,000 gallon. Based on recollection of a Vickers family member, UST-1, one of the 5,000-gallon USTs, was taken out of service in 1984, and the remaining USTs were taken out of service in September 1986. Vickers Realty contracted ERM-Southeast in May 1990 to remove the four USTs, two dispensers, and appurtenances. The soil samples collected during the tank closure and from a subsequent subsurface investigation (July 1990), confirmed petroleum impact in the soils up to 18,300 mg/kg of diesel range organic fraction via EPA 8015. In October 1993, Cooper Environmental, Inc. conducted a subsurface investigation for a site sensitivity evaluation (SSE) in the former UST system vicinity.

In August 2005, Vickers Realty, Inc. contracted ARM Environmental Services to conduct product line and dispenser sampling to provide completion of closure sampling and analysis for the UST system that was conducted by ERM-Southeast in 1990. An Addendum to UST Closure Report was sent to the NCDENR-Mooresville Regional Office on September 8, 2005. Diesel range organic (DRO) detections and one gasoline range organic (GRO) detection found in the product line and dispenser locations sampling exceeded the *Guidelines* concentration limits, and risk-based analytical data was necessary to clarify conditions in accordance with the *Guidelines.* Based on requirements for commercial UST systems, a Phase I LSA was conducted to meet source area soil and groundwater sampling requirements at the dispenser area, along the product line, and at the tank basin.

Three monitor wells were installed in each of the three source areas and soil samples were collected in accordance with the *Guidelines*, during the progression of the well installation. Soil impact was encountered during the Phase I LSA at concentrations exceeding the Residential and Soil-to-Groundwater Maximum Soil Contaminant Concentrations (MSCCs) in two of the locations. In the former tank basin area (MW-3), one compound [Benzo (a) pyrene] exhibited concentrations exceeding the Industrial/Commercial MSCC for soil.

The groundwater detections exceeded the North Carolina 2L Groundwater Standards in the each of the samples for total C9-C22 Aromatics. Several volatile organic compounds and the total C9-C22 Aromatics fraction exceeded the 2L Standard in the dispenser island well (MW-1). One compound and the total C9-C22 Aromatics fraction slightly exceeded the 2L Standard in the product line well (MW-2). No individual organic compounds exceeded the 2L Standard at the tank basin well (MW-3), but the total C9-C22 Aromatics fraction exceeded the 2L Standard in MW-3. No groundwater impact exceeded the Gross Contamination Levels (GCLs), from the source area groundwater investigation; however, benzene at 12 micrograms per liter (ug/L) exceeded 10 times the 2L Standard of 1 ug/l in MW-1, the dispenser island source well.

The *Guidelines* specify completion of the LSA process (Phase II LSA) for sites in which groundwater contains impact of more than 10 times 2L Standards, and ARM conducted the additional work by installing three shallow and one vertical extent monitor wells on November 14 and 15, 2005. The upgradient well, MW-4 was installed as far as practicable (approximately 10 feet) to the north-northwest of MW-1, and downgradient wells MW-5 and MW-6 were installed, respectively, approximately 15 and 25 feet to the south and southeast of the former diesel fuel USTs. The vertical extent well, MW-7d, was installed approximately 7.5 feet to the south-southeast and generally downgradient of MW-1.

Impact constituents were similar and concentrations were slightly lower for the upgradient well (MW-4) as compared to MW-1 at the dispenser source area. Monitor wells MW-5, MW-6, and MW-7d contained no constituents above 2L Standards, and site groundwater impact in the source area is far below GCLs.

Report Prepared by:

12-9-05

Tim McCorkle — Date
Project Manager

David A. Hunter, PG — Date
Principal Scientist

NORTH CAROLINA LICENSED SEAL GEOLOGIST DAVID ASHLEY HUNTER

1.0 INTRODUCTION AND SITE HISTORY

The following Limited Site Assessment (LSA) Report details the methods and findings of investigative activities conducted to characterize soil and groundwater in the vicinity of a former, diesel-fuel, underground storage tank (UST) system located at the Vickers Realty facility at 1336 South Graham Street, Mecklenburg County, Charlotte, North Carolina. The former tank system is centered at approximately 35° 13' 19" latitude and 80° 51' 37" longitude. A site topographic map showing the location of the facility and vicinity is provided as Figure 1. The LSA has been completed in general conformance to the North Carolina Department of Environment and Natural Resources (NCDENR) *Guidelines for the Investigation and Remediation of Groundwater Volume II (July 2001)* and amendments from August 2002 (*Guidelines*).

1.1 Site Description

The site is located approximately one mile west-southwest of the center uptown Charlotte in an industrial/commercial setting. The site is an approximate 3.4-acre parcel with a vacant warehouse building equipped with loading docks for former trucking and warehousing businesses which occupied the property. The trucking businesses used the former diesel-fuel UST system, which consisted of two 5,000-gallon USTs, a 4,000-gallon UST, and a 2,000-gallon UST, with approximately 50 to 60 feet of product and vent lines and a two-dispenser fueling island.

The site is bordered on the northwest by a shipping yard for Charlotte Pipe and Foundry (CP&F), to the north by a railway line and other parts of the CP&F property; on the northeast by a pipe supply company; to the southeast by South Graham Street and Little Hardware; and to the immediate south and southwest by Winona Street with industrial and commercial condominiums and other commercial properties beyond. The site is currently vacant. The nearest residential properties are approximately 800 to 900 feet to the southwest.

1.2 Site History

The site property operated as a warehouse and trucking facility from the early 1950s until 1986. Businesses included Carolina Delivery Service and Media Express, which were wholly owned subsidiaries of Vickers Realty, Inc. Media Express was the last operator of the tanks. Media Express was sold to Observer Transportation in 1986. According to Vickers family members, Tank No. 1, one of the 5,000 gallon USTs, was taken out of service in 1984, and the remaining three tanks were removed from service upon purchase of Media Express by Observer Transportation in 1986. The property was leased by Ramcon, Inc. in the early 1990s for shipping and receiving purposes. The property land use prior to the trucking facility in the late 1940s is unknown; however, based on the surrounding land use, may have initially been agricultural and residential with later industrial and commercial use. Sites in the relatively close vicinity to the northeast through the south were involved in gold mining from the late 1800s through the early 1900s.

Previous Site Assessment Activities and Current Scope-of Work

The four, diesel fuel, underground storage tanks (USTs), that were installed on the property in the 1950s were taken out of service in the mid-1980s. Vickers family members recall that Tank No. 1, one of the 5,000 gallon USTs was removed from service in 1984, and the North Carolina UST Section database, according to Trust Fund personnel, indicates the tank having been removed from service in April 1984. The remainder of the tank system was removed from service in September 1986. ERM-Southeast (ERM) permanently closed the four USTs by removal in May 1990. The two dispensers, and other UST appurtenances were also removed. The soil samples collected during the tank closure, and from a subsequent subsurface investigation (July 1990), confirmed petroleum impact in the soils in the tank basin at concentrations up to 18,300 mg/kg.

In October 1993, Cooper Environmental, Inc. conducted a subsurface investigation as part of a site sensitivity evaluation (SSE). Cooper performed five soil borings with sample depths of 13.0-15.0 feet below ground surface (bgs) in each of the borings with an additional sample depth of 8.0-10.0 ft bgs in one of the borings. The samples were analyzed for petroleum hydrocarbons in the diesel range, and the results indicated concentrations ranging from 34 mg/kg to 81 mg/kg.

In August 2005, Vickers Realty, Inc. contracted ARM Environmental Services to conduct product line and dispenser sampling to provide completion of closure work for the UST system that was initiated by ERM in 1990. An Addendum to the UST Closure Report was sent to the NCDENR-Mooresville Regional Office on September 8, 2005. Due to the diesel range organic (DRO) detections and one gasoline range organic (GRO) detection exceeding the *Guidelines* concentration limits, risk-based analytical data was necessary to clarify conditions in accordance with the *Guidelines.*

A Phase I LSA was conducted to evaluate soil and groundwater conditions in each of the three potential source areas (the dispenser, product line, and the tank basin). On September 15 through 19, 2005, monitor wells were installed in each of the three source areas with soil sampling in accordance with the *Guidelines*, during the progression of the well installation. Groundwater impact by benzene was detected at 12 micrograms per liter (ug/L) in MW-1, at the former dispenser island, during the Phase I LSA, and the impact was slightly more than 10 times above the above the North Carolina 2L Groundwater Quality Standard (2L Standard) of 1 ug/L. The *Guidelines* specify completion of a Phase II LSA, with three lateral extent and one vertical extent monitor wells if impact is more than 10 times 2L Standards. ARM installed the Phase II LSA monitor wells from November 14 through 16, 2005. Figure 2 shows the location of the LSA wells.

2.0 RISK CHARACTERIZATION

The *Limited Site Assessment Risk Classification and Land Use Form* according to 15A NCAC 2L.0115 (c)(4) is included in Appendix A. ARM provided answers to this form during performance of the Phase I LSA activities. The facility is in an area of industrial and commercial land use, and the nearest residences are at an approximately equal elevation and 900 feet from the source area. No water supply wells were encountered within 1,500 feet of the site, and the nearest surface water receptor is Irwin Creek at a distance of 2,000 feet north of the site. The site and vicinity is served by municipal water and sewerage. Access to the site is limited to Vickers Realty personnel, and a locked fence surrounds the site. Ground surface above the dispenser island and lines is paved, and clean gravel backfill covers the tank basin area. Based on the Land Use Form findings and the site vicinity observations, the site should be classified as a low risk, industrial/commercial site.

3.0 RECEPTOR INFORMATION

3.1 Water Supply Wells

According to requirements of a Phase I LSA, ARM performed a potable water well survey in the vicinity of the Vickers site by conducting an walking survey of public areas within 500 feet surrounding the source area, with the exception of the CP&F and the piping supply company property. These locations were observed from the Vickers Realty Site, and ARM accessed the CP&F product supply lot to the west and southwest and the adjacent pipe supply lot to the north with a vehicle and closely observed the areas at walking speeds. No wells were observed on these properties. Additional areas within a 1,500 foot radius were surveyed at slow speeds from a vehicle containing two occupants, and municipal water supply was confirmed by observing Charlotte-Mecklenburg Utility Department (CMUD) meters throughout the survey area.

ARM interviewed Mr. Gray Little, manager and owner of Little's Hardware and confirmed that his location, and to his knowledge, the surrounding areas had municipal water supply and no water supply wells. With the exception of Mr. Little, ARM has mailed the *Guidelines* Figure 18, Water Supply Well Information Survey form to property owners within 500 feet of the source area, and has received replies from several property owners. Appendix A also contains copies of the returned forms. ARM also accessed the Well Information System for Mecklenburg County, and found no indications of supply wells within 1500 feet of the site (http://maps.co.mecklenburg.nc.us/website/WellInformationSystem/wis.aspx). Thus, our receptor survey found no water supply wells within the 1,500-foot search radius of the subject site.

3.2 Public Water Supplies

No public supply wells for public water supply systems utilizing groundwater were identified within approximately 1,500 feet of the site. The subject vicinity appears to be completely served by CMUD municipal supply.

3.3 Surface Water

Surface water from the site likely flows to the northwest toward ditches along the railroad and to curb and gutter and storm drains to the southeast along Winona Street and South Graham Street. Ditches, gutters and storm drains appear to direct stormwater from the site and vicinity to the west and north towards Irwin Creek, which was identified on the USGS Topographic map. The Creek is closest to the site toward the north at 2000 feet, but intervening highway and railroad infrastructure likely prevents direct overland flow in that direction. The creek passes directly west at approximately 2,500 feet from the site, and drainage of site and vicinity surface waters probably reach Irwin Creek to the west or northwest of the site (Figure 1).

3.4 Wellhead Protection Areas

Designated wellhead protection areas as specified in 42 USC 300-h 7(e) have not been defined by the NC DENR for the subject site vicinity.

3.5 Subsurface Structures

A visual survey was conducted to locate subsurface structures (utilities, basements, septic tanks, etc.), which may cause preferential pathways for vapors and liquids in the subsurface. Also, One-Call of North Carolina, a utility locating service, was contacted to locate underground utilities on the site. Based on the utility survey, underground electric, gas, telephone, storm sewer, and water lines were identified on site or in the surrounding areas. A self-contained, below-grade scale system is located within approximately 10 feet of the dispenser island, and appears to have a vault of approximately four to six feet in depth, but the scale is mechanical and no connections from the scale to other parts of the site via electric utilities appears to have been made. With the exception of the former system excavations and the scale, no subsurface structures that could accumulate or transmit impact were identified in the vicinity of the former potential source area.

Depth to groundwater measured in the on-site monitoring wells MW-1 through MW-7d ranged from approximately 8.5 to 11 feet below the top of casing, which was at ground surface. Underground utilities are typically installed at depths ranging from 18 inches to 6 feet below grade. In general, underground utilities provide preferential flow routes for groundwater if the groundwater reaches these trenches. Based on the observed depth of water, the utilities would not appear to be a likely conduit of groundwater migration if they intersect the impact area.

Basement structures were not identified on site; however, basements may exist below the observed structures at residences or businesses throughout the site vicinity. A distance of at least 800 feet separates the source area from the nearest residential structures, and a distance of approximately 300 feet separates the source area from the nearest off-site commercial/industrial structures that could potentially contain a basement. The lack of free product occurrence and these distances likely prevent potential for vapor migration from impacted groundwater to basement structures.

The site and vicinity lie within an area of former mine adits and shafts, as described by members of the Vickers family and others knowledgeable of the area. A report by Geologic Resources, Inc. (*Location, Geologic Setting, and Probable Extent of the Rudisill and St. Catherine Gold Mines Charlotte, N.C.;* 1978?) indicates the location of the Rudisill Mine approximately 1000 feet to the south of the project site with shafts opening for ventilation, entrance, and pumping near and south-southeast of the intersection Summit and South Mint Streets. The shallow Brush Hill Mine was located between South Graham and South Mint Street approximately 500 to 700 feet to the northeast of the UST system, and the St. Catherine's mine was located approximately 1500 to 2000 feet to the north-northeast of the site. The nearby mines exploited a gold-rich zone on a roughly south-southwest to north-northeast trend (strike) with a northwest dip of approximately 70 degrees. The workings of the Rudisill Mine extended to a depth of approximately 350 feet long the trend, which would have brought the shafts and adits to within approximately 700 to 900 feet of the project site in the direction of a roughly 30 degree downward vector to the south-southeast.

3.6 Land Use

The site contains one one-story brick warehouse building (of approximately 45,000 square feet) with attached single-story office area and surrounding asphalt pavement. The building is currently vacant. Land use in the area is predominantly commercial and industrial, within approximately an 800-foot radius of the source area being entirely industrial or commercial. Commercial properties dominate to the northeast, east, and south, with industrial properties to the southwest, west and north. The nearest residential properties are along Merriman, Wilmore, Larch, and Cantrell Streets to the southwest of the property, and the properties are served by municipal water and sewerage. The nearest church is approximately 1,700 feet south-southwest of the site at the corner of West Park Avenue and Cliffwood Place, while the nearest school, Wilmore School, is more than 2,000 feet south of the site along West Boulevard.

SITE CHARACTERISTICS

4.1 Regional Geology

The Geologic Map of North Carolina (1985) indicates that the site lies in the Charlotte Belt of the Piedmont Physiographic Province. According to the geologic map, the project property is likely underlain by metamorphosed quartz diorite, which is a rock similar, but slightly less siliceous than granite. The Charlotte Belt also contains other metamorphic assemblages. Typically, crystalline bedrock of the Piedmont weathers in the shallow subsurface to a variable thickness of unconsolidated, residual soil material, which lies above the bedrock and often retains some structure of the bedrock, in which case the term saprolite is often applied. In some areas or depth zones, weathering results in a structureless soil termed residuum, although residuum or residual soil can also refer to the entire unconsolidated zone above the bedrock. The base of the saprolite often grades into bedrock through a zone known as partially weathered rock (PWR), which contains rock fragments and more consolidated material. Generally, a gradual downward lithologic and textural change occurs from residuum, to saprolite, to PWR, to bedrock. Bedrock depth varies from ground surface at outcrops to depths of 70 or more feet in areas of readily weathered material.

4.2 Site Geology

The land surface of the site and immediate vicinity lies at an elevation of approximately 705 feet above mean sea level. In general, the materials at the subject site consisted of asphalt/gravel to 0.25-0.5 ft bgs, then tannish brown and red slightly clayey silt material to approximately 8 feet that changed to a darker, greenish gray and brown sandy silt in most areas, but a dark greenish brown slightly sandy silty clay in the area of MW-3. The dark greenish gray and brown sandy silt continued until approximately the 10-11 ft bgs interval and from 11 ft bgs to the bottom of boring MW-3 at approximately 17 ft bgs (the depth of auger refusal), the soil became a dark brown and tan slightly sandy silt. Auger refusal was encountered at a depth of 14 ft bgs in the MW-1 and MW-2 borings. Although lithology and depth to rock is more difficult to determine while air drilling without soil sampling, the bedrock surface appeared to occur in the interval of approximately 17 to 20 ft bgs for monitor wells MW-4 through MW-7d. A subsurface exploration log for each of the three borings containing a lithologic description of soils encountered during boring activities is included in Appendix B.

4.3 Regional Hydrogeology

<u>Saprolite Aquifer</u>

Groundwater in the Piedmont is often first encountered as a water table in pores within the saprolite/residuum and alluvium. On a general regional basis, permeability may be relatively high in alluvium or saprolite, if sandy material is present. However, permeability is generally relatively low in the residuum, with somewhat greater permeability found in the saprolite and PWR due to relict rock texture and variable susceptibility to weathering exhibited by different minerals in the rock. Textural

evaluations from the LSA suggest that most of the unconsolidated subsurface materials at the site exhibit moderate to relatively low permeability.

Groundwater becomes increasingly confined to fractures and other structural features as rock integrity increases at depth. The shallow aquifer occurrence varies in depth from ground surface at springs, creeks, and rivers to as deep as 50 feet or more beneath upland surfaces in some parts of the Piedmont. Water in the alluvium or unconsolidated residual material usually behaves as an unconfined, or water table, aquifer and will yield water with head elevation equivalent to the first elevation where water was encountered. Saprolite or alluvial groundwater flow is usually in rough concurrence with local topographic conditions and is toward local drainage features. For sites in the Piedmont, when gradient conditions are discussed, upgradient sites are in locations which could, based on topographic or flow analysis, have shallow groundwater migration from them toward the project site. Sidegradient sites are nearby sites with equivalent land surface or water table elevation to the project site, which would be unlikely to have groundwater movement generally parallel to the project site, and downgradient sites are nearby sites, which likely receive groundwater migration from beneath the project property.

Bedrock Aquifer

The bedrock fractures or other planar features generally constitute the bedrock aquifer, with the surrounding rock material being effectively impermeable. Along with fractures, the contacts between rock bodies probably constitute areas of significant groundwater occurrence in the bedrock. The surrounding material and overlying residuum tend to make the bedrock aquifer a semi-confined aquifer; that is, the overlying water and soil weight normally results in pressure that causes water in a borehole which intersects a fracture or other feature to rise above the elevation of the fracture or feature. Such features may not occur on predicable trends, at the same elevations, or even be present or directly connected in separate boreholes. In areas adjacent to creeks, the bedrock groundwater generally discharges to the residuum or alluvium and then into the surface water. In areas away from surface water drainages, the bedrock aquifer is generally recharged by downward infiltration of water in the shallow aquifer at locations where fractures intersect the bedrock surface. Although vicinity mine structures may be at depths below that likely to be directly affected by petroleum contamination, the intersection of water bearing fractures and the mine structures could affect bedrock groundwater conditions.

4.4 Site Hydrogeology

Minor groundwater occurrence of several inches appeared to be present above the bedrock during monitor well installation. Therefore, the wells were installed into the upper bedrock to obtain sufficient water for monitoring purposes. Monitoring wells MW-1 through MW-3 were installed during the Phase I LSA to total depths of 21 ft bgs, 24 ft bgs, and 21 ft bgs, respectively. The Phase II LSA shallow wells were each installed to 22 ft bgs, and the vertical extent well was installed to 62 ft bgs. The groundwater levels stabilized at depths ranging from 8.4 to 10.99 ft below measuring point (ft bmp) in the shallow wells (MW-1 through MW-6). Groundwater flow as derived from the wells was to the west-southwest (Table 1a) three days after well installation (September 19, 2005)

and in virtually the opposite direction to the east (Table 1b) approximately a month after Phase I LSA installation (October 25, 2005). After Phase II well installation, the groundwater elevations initially suggested radial flow toward a location near MW-2 (Table 2a; November 16, 2005), but infilling of MW-1 through MW-3 with roughly two feet of sediment indicated redevelopment should occur, and measurements on December 8, 2005 showed radial flow to the southeast and to the vicinity of MW-6 (Table 2b and Figure 3).

Horizontal gradient was at a moderately low average slope of 0.0061, and the vertical gradient was downward at a moderately high slope of 0.044. Given rough estimates of hydraulic conductivity of 0.5 to 1.5 feet per day (none of the shallow wells could be bailed dry), the horizontal gradient data, and a 0.25 effective permeability, ARM estimates annual groundwater flow between roughly 4 and 13 feet per year. ARM scientists were initially skeptical of potential for area mines to affect shallow groundwater, but the variable flow directions encountered over the course of the LSA and the relatively steep downward gradient suggest such potential, particularly given the preference for upslope or side-slope flow during the investigation.

5.0 SUBSURFACE INVESTIGATION

5.1 Summary of Activities

On September 15 through 16, 2005 ARM installed soil borings in the potential source areas of the former UST system, including the former dispenser island area, the former product line area and the former UST basin, to meet requirements of UST Section *Guidelines*. After soil sampling, the three soil borings were extended by rock drilling into the upper bedrock and constructed into monitor wells (MW-1, MW-2, MW-3) to satisfy *Guidelines* groundwater monitoring requirements. Monitor well MW-3 was sampled on September 16, 2005, and monitor wells MW-1 and MW-2 were sampled on September 19, 2005. Additional groundwater elevation measurements were taken on October 25, 2005. After finding groundwater impact in MW-1 that required a Phase II LSA investigation, the additional wells were installed from November 14 through November 15, 2005, with sampling of the Phase II wells on November 16, 2005. After purging sediment from MW-1 through MW-3 and allowing the wells to recover for approximately 6 hours, an additional set of groundwater elevation measurements was conducted on December 8, 2005. The soil boring and monitor well locations are shown on Figure 2.

5.2 Soil Boring and Monitor Well Installation

For the Phase I part of the LSA, well drilling was performed on September 15 and 16, 2005, by ARM of Columbia, South Carolina. Billy Ewing, North Carolina Well Contractor Certification No. 3110, conducted the drilling work. A field scientist with ARM Environmental Services, PLLC of Charlotte, North Carolina, supervised the installation and performed screening, logging, and sampling of the soil borings.

Soil borings were conducted using rotary hollow stem augers, and samples of one-foot to 18-inches in length were collected with centers on 5-foot intervals using the split spoon technique. The borings for MW-1 and MW-2 encountered refusal at 14 ft bgs, so that soil samples centered on 5 and 10 ft bgs were collected for laboratory analysis, and MW-3 had refusal at 17 ft bgs, so that soil samples were collected on centers at 5, 10, and 15 ft bgs were collected for laboratory analysis. During each of the borings, at least one hour of down-time was allowed at the base of the soil boring to evaluate the presence of groundwater, but no appreciable water was encountered.

Screening duplicates from each sample interval were allowed to equilibrate with the internal headspace of the plastic bag for at least 15 minutes after collection, so that organic compounds which might be present in the soil would enter the vapor phase in the bag's headspace. Field screening consisted of analyzing the headspace atmosphere of each plastic bag for organic vapors, using a calibrated Organic Vapor Analyzer (OVA). Field screening results, lithologic descriptions, and well construction information are summarized on the subsurface exploration logs provided in Appendix B.

ARM then converted to air-hammer drilling and cut a 5.78-inch diameter boring into rock until sufficient water for sampling was encountered in each location. ARM continued rock drilling so that the monitor wells were constructed of 2-inch diameter, schedule 40 PVC, to total depths 21 ft bgs in MW-1 and MW-3 and to 24 ft bgs in MW-2. The wells

were constructed with 15 feet of 0.010-inch, factory-slotted screen with riser casing to approximately three inches bgs. The annular materials between the borehole wall and the well consisted of filter sand from the base of the boring to approximately one foot above the top of the screen; one foot of hydrated sodium bentonite as a seal atop the sand pack; and a bentonite-infused grout in the remainder of the borehole. The wells were completed with a flush-mount surface finish of bolt-down manholes in concrete well pads, and the risers were fitted with locking compression caps. The wells were installed in accordance with North Carolina Well Standards and well records are included in Appendix C. Cuttings were collected into DOT-rated drums, which are at the site pending disposal.

The soil samples were analyzed according to risk-based methods for volatile organic compounds (VOCs) including benzene, ethylbenzene, toluene, xylenes (BTEX); isopropyl ether (IPE), and methyl tert-butyl ether (MTBE) via EPA Method 8260; semi-volatile organic compounds (SVOCs; *plus the ten tentatively identified compounds*), via EPA Method 8270; as well as volatile and extractable petroleum hydrocarbons (VPH and EPH) via the Massachusetts Department of Environmental Protection (MADEP) methods.

Because MW-1 contained benzene at slightly greater than 10 times the 2L Standard, ARM conducted Phase II LSA activities at the property. After discussion with the UST Section of the Mooresville Regional Office to confirm anticipated well placement, ARM contracted Subsurface Environmental Investigations to install three shallow and one vertical extent monitor wells at the property. Mr. Lanny Teague, North Carolina. North Carolina Well Contractor Certification No. 2576, conducted the drilling work. A field scientist with ARM Environmental Services, PLLC of Charlotte, North Carolina, supervised the installation and performed logging of the well installation.

Shallow wells were installed in the one expected upgradient and two expected downgradient locations based on the Phase I LSA work (Figure 2). The wells were installed by air-hammer drilling which cut a 5.78-inch diameter boring through the unconsolidated materials (likely fill and saprolite) to approximately 17 to 20 ft bgs and into rock to a total depth of 22 ft bgs in each location. The Phase II LSA shallow monitor wells were constructed of 2-inch diameter, schedule 40 PVC with 15 feet of 0.010-inch, factory-slotted screen (7 to 22 ft bgs) with riser casing to approximately three inches bgs. The annular materials between the borehole wall and the well consisted of filter sand from the base of the boring to approximately one foot above the top of the screen; three feet of hydrated sodium bentonite as a seal atop the sand pack; and a bentonite-infused grout in the remainder of the borehole. The wells were completed with a flush-mount surface finish of bolt-down manholes in concrete well pads, and the risers were fitted with locking compression caps.

For the vertical extent monitor well, MW-7d, a 8.5-inch diameter air hammer was used to cut a boring through the unconsolidated material and rock to a depth of 35 ft bgs. A surface casing was set and sealed with sodium bentonite-infused grout, which was allowed to cure for approximately 24 hours. The boring was extended through the surface casing and bedrock to a total of 62 ft bgs. No appreciable water-bearing fractures were encountered within the 35 to 62 ft bgs interval, and ARM contacted the

UST Section regarding need for additional drilling. Because 40 feet of vertical separation existed between the shallow wells and the base of the vertical extent well, the UST Section did not require additional drilling, and ARM decided to install a well with 10 feet of screen across several apparently dry or low yield fractures in the 52 to 62 foot interval in an attempt to collect a vertical extent groundwater sample. The subsurface exploration and well construction log indicates the construction details of MW-7d (Appendix B). As with the Phase I LSA wells, the Phase II LSA wells were installed in accordance with North Carolina Well Standards and well records are included in Appendix C. Cuttings were collected into DOT-rated drums, which are at the site pending disposal.

5.3 Monitor Well Sampling

ARM sampled MW-3 on September 16, 2005. Monitor wells MW-1 and MW-2 were sampled on September 19, 2005. ARM sampled the Phase II LSA wells on November 16, 2005. An electronic oil/water interface device was used to measure the groundwater levels for all wells on September 19, October 25, November 16, and December 8, 2005, and Tables 1a, 1b, 2a, and 2b contain the well sampling and groundwater elevation records for the events, respectively. Following adequate development of the wells, approximately three well volumes were removed from the monitor wells to purge stagnant water and to ensure that fresh formation water would be sampled. Additionally, as purging progressed, field measurements of pH, temperature, and specific conductivity were recorded. When consecutive readings of the field parameters were within 10 percent variability, the well was considered adequately purged.

A new disposable plastic bailer was used to collect the samples from each well. Groundwater samples were collected in pre-cleaned, pre-preserved laboratory supplied containers; packed in ice; and delivered under chain-of-custody control to North Carolina-accredited Shealy Environmental Laboratories in Cayce, South Carolina. Shealy analyzed the groundwater samples for risk-based methods for VOCs including BTEX, IPE, and MTBE via EPA 8260B, SVOCs via 8270C, and MADEP VPH and EPH.

5.4 Soil Sampling Results

The results for the soil samples indicated detections for analyzed constituents in each of the soil samples from the source area wells. The MW-1 (5 ft bgs) sample exceeded Soil-to-Groundwater Maximum Soil Contaminant Concentration (MSCC) for nine VOCs, one SVOC, and total C9-C22 aromatics, with no Industrial/Commercial or Residential MSCC exceedances. The sample from MW-1 at the 10 ft bgs depth had no MSCC exceedances.

The MW-2 (5 ft bgs) sample contained one VOC and total C9-C22 Aromatics above Soil-to-Groundwater MSCCs, but no other MSCC exceedances. The MW-2 (10 ft bgs) sample showed total C9-C22 Aromatics at 580 mg/kg, which exceeds the Residential Maximum Soil Contaminant Concentration (MSCC) of 469 mg/kg. Constituents exceeded the Soil-to-Groundwater MSCCs in MW-2 at 10 ft bgs as follow: The VPH C5-C8 Aliphatics, four VOCs, and one SVOC.

The MW-3 (5 ft bgs) sample showed the following regulatory exceedances:

- Benzo(a)anthracene at 1.9 mg/kg, which exceeds the Residential MSCC of 0.88 mg/kg and the Soil-to-Groundwater MSCC;
- Benzo(a)pyrene at 1.5 mg/kg, which exceeds the Industrial/Commercial MSCC of 0.78 mg/kg as well as the other MSCCs;
- Dibenzo(a,h)anthracene at 0.310 mg/kg, which exceeds the Residential MSCC of 0.088 mg/kg and the Soil-to-Groundwater MSCC; and
- The total C9-C22 Aromatics, which exceed the Soil-to-Groundwater MSCC.

The MW-3 (10 ft bgs) sample exhibited the following MSCC exceedances:

- Benzo(a)pyrene at 0.470 mg/kg, which exceeds the Residential MSCC of 0.088 mg/kg and the Soil-to-Groundwater MSCC;
- Total C9-C22 Aromatics of 608 mg/kg, which exceed the Residential MSCC of 469 mg/kg and the Soil-to-Groundwater MSCC; and
- Additionally two SVOCs and one VOC exceeded the Soil-to-Groundwater MSCC.

The MW-3 (15 ft bgs) sample had the following MSCC exceedances:

- Benzo(a)anthracene at 4.9 mg/kg, which exceeds the Residential MSCC of 0.88 mg/kg and the Soil-to-Groundwater MSCC;
- Benzo(a)pyrene at 4.0 mg/kg, which exceeds the Industrial/Commercial MSCC of 0.78 mg/kg and the other MSCCs;
- Indeno(1,2,3-c,d) pyrene at 2.4 mg/kg, which exceeds the Residential MSCC of 0.88 mg/kg, but not the Soil-to-Groundwater MSCC, which is higher at 3 mg/kg; and
- The total C9-C22 Aromatics, one VOC and one SVOC, which exceed the Soil-to-Groundwater MSCC.

There were no other exceedances of the risk-based regulatory limits. The laboratory analytical report is provided in Appendix D, and the soil sample analytical detections are shown on Table 3. Figure 4, the soil impact map, indicates total organic compounds and constituents that exceed Industrial/Commercial and Residential MSCCs in each interval for each well.

5.5 Groundwater Results

No groundwater concentrations exceeded the Gross Contamination Levels. The detections found in the shallow monitor wells, which exceeded North Carolina 2L standards included:

- Benzene in MW-1 at 12 ug/L and in MW-4 at 11 ug/L, which exceed the 2L Standard of 1 ug/L;
- Ethylbenzene in MW-1 at 81 ug/L and in MW-4 at 60 ug/L, which exceed the 2L Standard of 29 ug/L;
- IPE in MW-1 at 84 ug/L, in MW-2 at 100 ug/L, and in MW-4 at 84 ug/L, which exceed the 2L Standard of 70 ug/L;
- Naphthalene at 27 ug/L in MW-1, which exceeds the 2L Standard of 21 ug/L;
- VPH C5-C8 Aliphatics in MW-4 at 580 ug/L which exceeds the 2L Standard of 420 ug/L

- Total C9-C22 Aromatics in MW-1 (1,150 ug/L), MW-2 (660 ug/L), MW-3 (1,320 ug/L), and MW-4 (680 ug/L), which exceed the 2L Standard of 210 ug/L.

Other detections occurred in each of the monitor wells and included petroleum fractions via EPH and VPH, VOCs, SVOCs (with tentatively identified compounds). Although many of the tentatively identified compounds and EPH and VPH fractions do not have standards, none of the other compounds with 2L Standards exceeded those standards. The laboratory analytical report is provided in Appendix D; Table 4 contains a summary of the detected groundwater constituents; and Figure 5, the groundwater impact map, shows total organic compound concentrations and individual compounds that exceed 2L standards for the wells.

5.6 Discussion of Results

Soil

Three monitor wells with UST *Guidelines*-based soil sampling were installed in the potential source areas of the former diesel fuel UST system. The soil analytical results from MW-1 indicate no constituents in either sample (5 and 10 ft bgs) exceed the Residential or Industrial/Commercial MSCCs, and only the 5 ft bgs sample has concentrations of soil constituents above Soil-to-Groundwater MSCCs.

The MW-2 sample along the former product line at 5 ft bgs contains two constituents above Soil-to-Groundwater MSCCs, while the 10 ft bgs sample from MW-2 contains several compounds above the Soil-to-Groundwater MSCC, and the total C9-C22 aromatic impact in the 10 ft bgs sample exceeds the Residential MSCCs. Soil at MW-2 had no impact above Industrial/Commercial MSCCs.

The soil analytical results indicate petroleum impact in the UST basin (MW-3; near impact of 16,000 mg/kg from the UST Closure Report) exceeds the Industrial/Commercial MSCCs in the 5 ft bgs sample and in the 15 ft bgs sample for Benzo(a)pyrene. The MW-3 (15 ft bgs) sample should not be considered a valid soil sample since the depth at which it was collected was found to be beneath the groundwater surface, following stabilization of the water levels. The samples from each depth interval in MW-3 exceed the Residential MSCCs and Soil-to-Groundwater MSCCs.

Groundwater

Groundwater flow direction appears to be variable as calculated during the LSA, from late September through early December 2005, although a flow in generally southwestward to east-southeastward directions appears to prevail. A potential receptor survey was performed for the LSA, and no water supply wells or surface water bodies were located within the 1,500 feet radius from the site. Utilities and nearby mine structures do not appear to cross the area or depth intervals affected by the impact. The only potential receptor identified by the LSA was Irwin Creek, which is located at a distance of approximately 2,500 feet west northwest from the site. The site appears to

meet Industrial/Commercial land use classifications, based on a greater than 800 foot distance to the nearest residence, which is at an approximately equal elevation to the site.

The groundwater impact appears to be limited to the general vicinity of the dispenser island source area and to be only slightly above 2L Standards. Individual compounds exceed the 2L Standards in MW-1 (Benzene, ethylbenzene, and IPE), MW-2 (IPE) and MW-4 (Benzene, ethylbenzene, and IPE). Groundwater from MW-1 through MW-4 contains total C9-C22 aromatics above the 2L Standard.

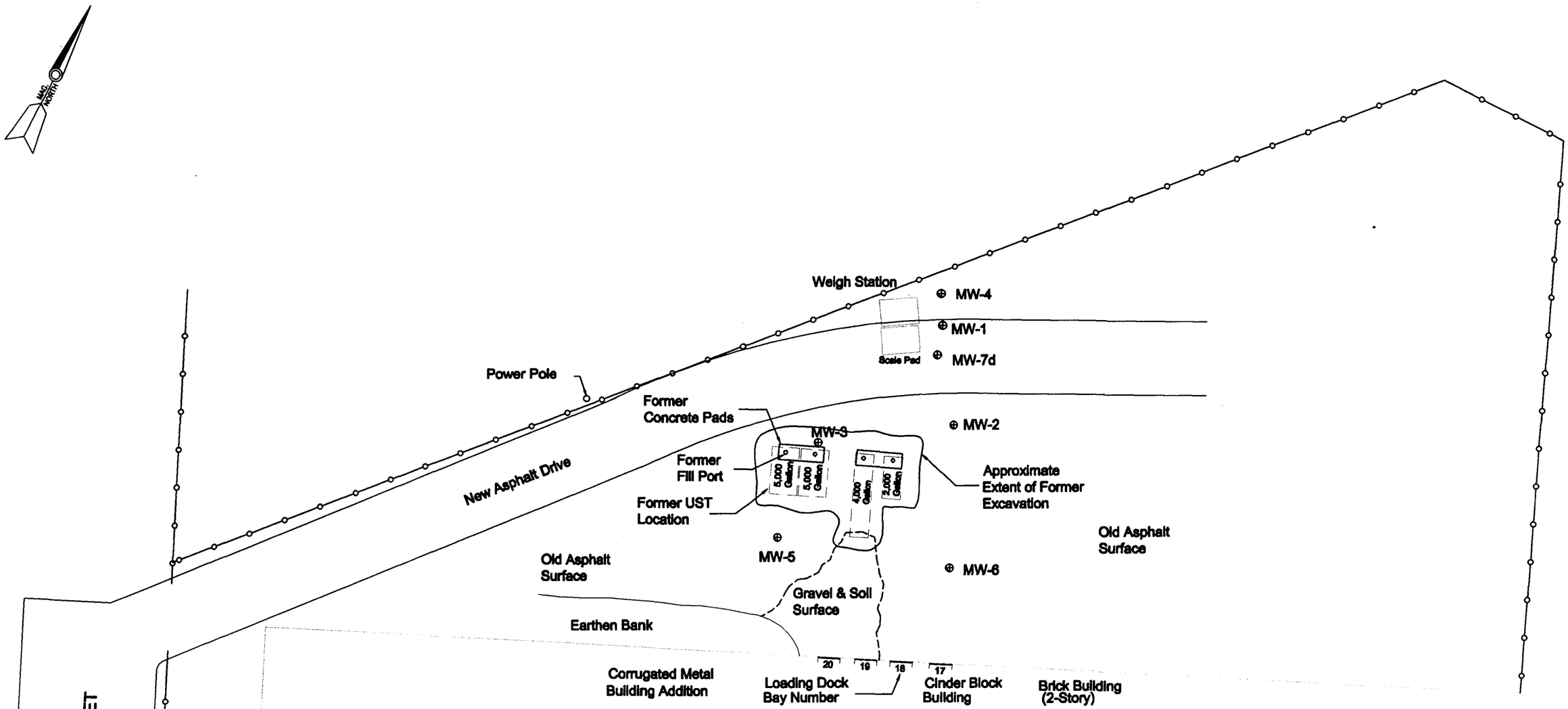
6.0 CONCLUSIONS

ARM has completed a Limited Site Assessment at the Vickers Realty facility in Charlotte, North Carolina. The findings of the LSA indicate soil impact in a small part of the former tank basin at 5 ft bgs is slightly above the Industrial/Commercial and Residential MSCCs, and soil impact along part of the former product lines is slightly above the Residential MSCCs. Soil impact in the former dispenser area did not exceed the Residential or Industrial/Commercial MSCCs.

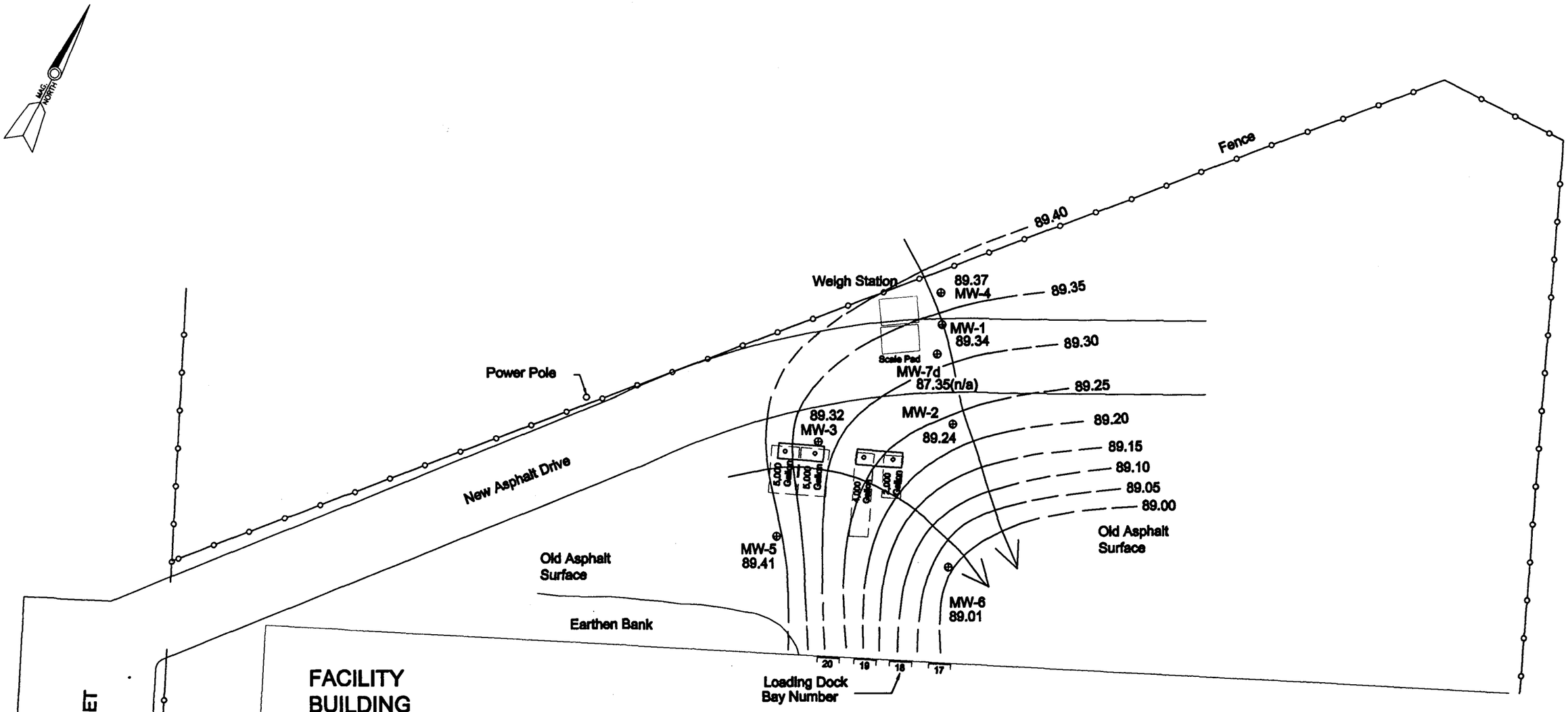
Groundwater impact slightly above the North Carolina 2L groundwater standards was encountered in MW-1 through MW-4. No groundwater impact concentrations were found above the Gross Contaminant Levels for the three source area monitor wells, and wells away from the apparent source area at the former dispenser island (MW-5 and MW-6) as well as in the vertical extent well were below 2L Standards. No potential receptors of impact were encountered during the receptors survey for the LSA. The Industrial/Commercial MSCC is exceeded slightly by one compound in one location (MW-3) and is several feet below surface. The soil impact at MW-3 and in other locations at lower concentrations does not appear to be resulting in appreciable groundwater impact. ARM respectfully requests that the UST Section provide a deed-restricted notice of no further action for the property under the Industrial/Commercial site classification.

FIGURES

PROJECT: LIMITED SITE ASSESSMENT 1336 SOUTH GRAHAM STREET CHARLOTTE, NORTH CAROLINA	DESCRIPTION: SITE LOCATION MAP	**FIGURE 1** DATE: DECEMBER 2005
ARM ENVIRONMENTAL SERVICES	REMARKS/REFERENCE: USGS Topo - Charlotte East, 1988	DRAWN BY/CHECKED BY: DAH/TBM
	SCALE & PAPER: 1" = 2000' on 8.5 x 11 Paper	PROJECT NUMBER: N20-952-05



PROJECT: LIMITED SITE ASSESSMENT VICKERS REALTY 1336 SOUTH GRAHAM STREET CHARLOTTE, NC	DESCRIPTION: SITE MAP	FIGURE 2 DATE: DECEMBER 2005
ARM ENVIRONMENTAL SERVICES	REMARKS/REFERENCE: MECKLENBURG COUNTY GIS TAX MAPPING AND ERM SOUTHEAST (1990)	DRAWN BY/CHECKED BY: DAH/TBM
	SCALE & PAPER: 1" = 30' ON 11X17	PROJECT NUMBER: N20-952-05



EXPLANATION

MW-5 89.41	MONITOR WELL WITH GROUNDWATER ELEVATION (Assumed reference of 100.00 feet at the MW-6 top of casing)
89.30	ESTIMATED GROUNDWATER ELEVATION CONTOUR (Dashed intervals indicate areas with less certainty)
→	ESTIMATED GROUNDWATER FLOW DIRECTION

PROJECT:
LIMITED SITE ASSESSMENT
VICKERS REALTY
1336 SOUTH GRAHAM STREET
CHARLOTTE, NC

ARM ENVIRONMENTAL SERVICES

DESCRIPTION:
WATER LEVEL ELEVATION AND FLOW DIRECTION MAP
(Based on Dec. 8, 2005 measurements)

REMARKS/REFERENCE:
MECKLENBURG COUNTY GIS TAX MAPPING AND ERM SOUTHEAST (1990)

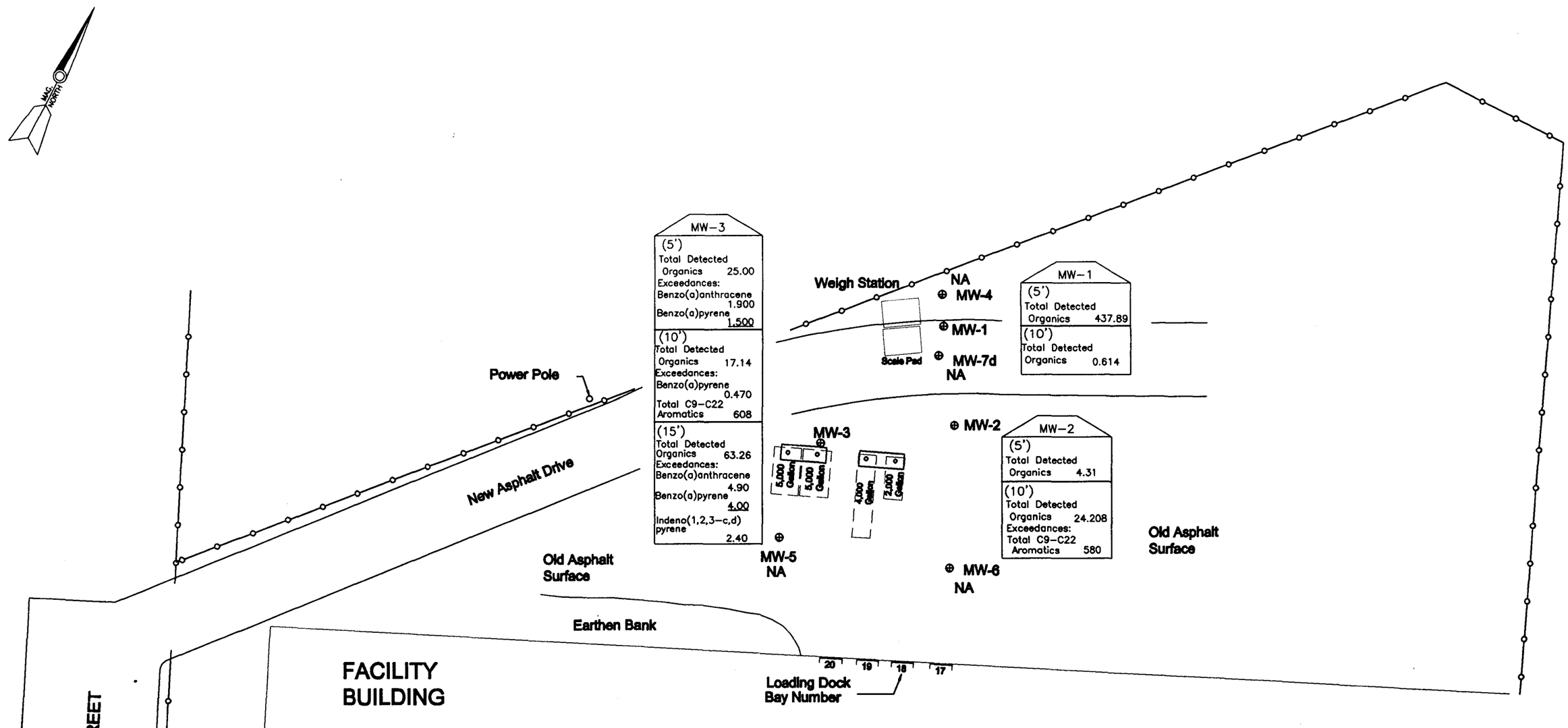
SCALE & PAPER:
1" = 30' on 11" X 17" paper

FIGURE 3

DATE:
DECEMBER 2005

DRAWN BY/CHECKED BY:
DAH/TBM

PROJECT NUMBER:
N20-952-05



EXPLANATION

MW-2

MW-2
(5')
Total Detected Organics 4.31
(10')
Total Detected Organics 24.208
Exceedances:
Total C9-C22 Aromatics 580

MONITOR WELL WITH SOIL ANALYTICAL SUMMARY

NOTES:

Concentrations in mg/Kg

Individual compounds above Residential MSCCs are shown

Individual compounds above Industrial/ Commercial MSCCs are underlined

NA=Not Analyzed (Phase II LSA Well)

PROJECT:
LIMITED SITE ASSESSMENT
VICKERS REALTY
1336 SOUTH GRAHAM STREET
CHARLOTTE, NC

ARM ENVIRONMENTAL SERVICES

DESCRIPTION:
SOIL SAMPLE IMPACT MAP
(Concentrations in in milligrams/kilogram - mg/Kg)

REMARKS/REFERENCE:
MECKLENBURG COUNTY GIS TAX MAPPING AND ERM SOUTHEAST (1990)

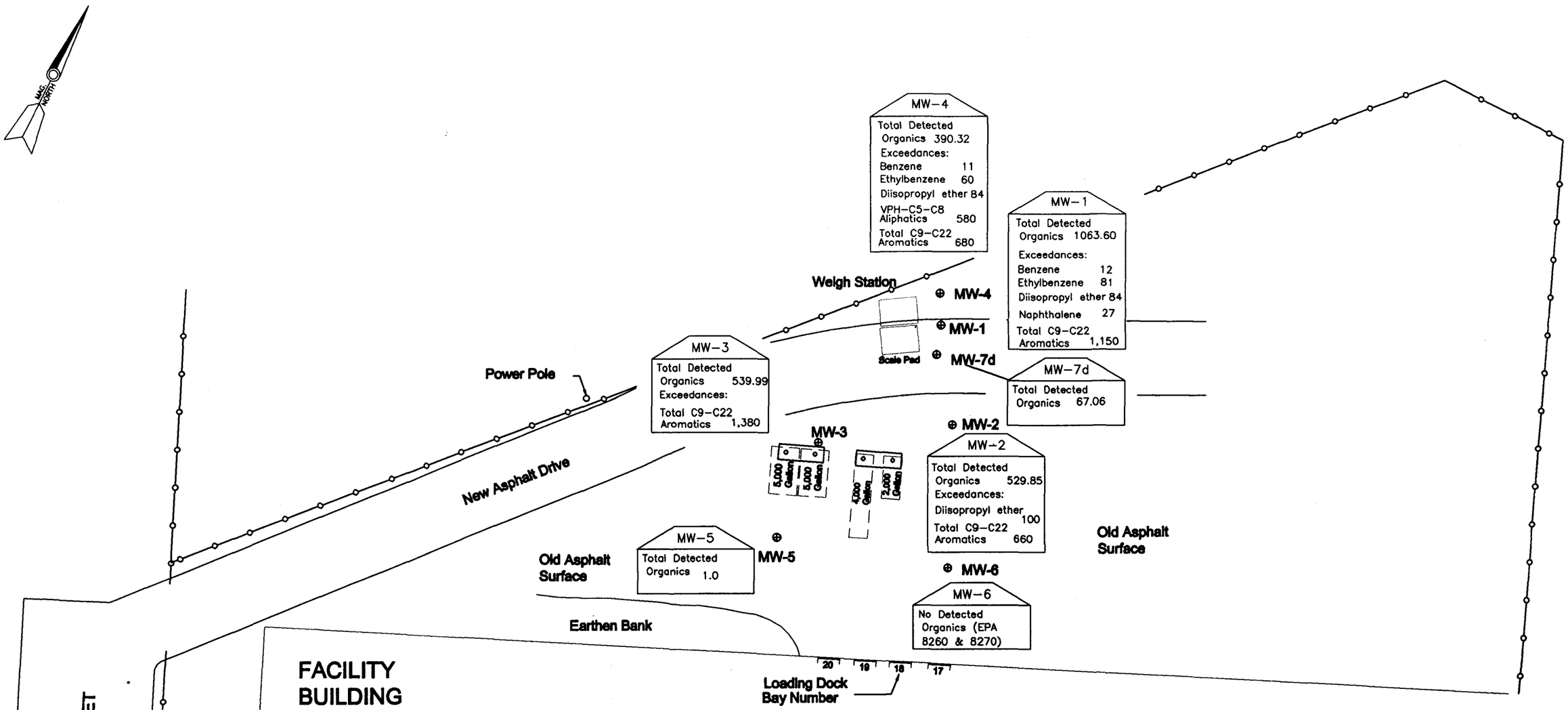
SCALE & PAPER:
1" = 30' ON 11X17

FIGURE 4

DATE:
DECEMBER 2005

DRAWN BY/CHECKED BY:
DAH/TBM

PROJECT NUMBER:
N20-952-05



EXPLANATION

⊕ MW-2

MW-2
Total Detected Organics 529.85
Exceedances:
Diisopropyl ether 100
Total C9-C22 Aromatics 660

MONITOR WELL WITH GROUNDWATER ANALYTICAL SUMMARY

NOTES:

Concentrations in mg/L

Individual constituents above 2L Standards are shown

No compounds were detected above Gross Contaminant Levels

Total Detected Organics = Total from EPA Methods 8260 and 8270

PROJECT:
LIMITED SITE ASSESSMENT
VICKERS REALTY
1336 SOUTH GRAHAM STREET
CHARLOTTE, NC

DESCRIPTION:
GROUNDWATER IMPACT MAP
(Concentrations in milligrams/liter - mg/L)

FIGURE 5

DATE:
DECEMBER 2005

ARM ENVIRONMENTAL SERVICES

REMARKS/REFERENCE:
MECKLENBURG COUNTY GIS TAX MAPPING AND ERM SOUTHEAST (1990)

DRAWN BY/CHECKED BY:
DAH/TBM

SCALE & PAPER:
1" = 30' ON 11X17

PROJECT NUMBER:
N20-952-05

TABLES

Table 1a.
Well Sampling Record
Vickers Realty, Inc.
1336 South Graham Street
Charlotte, North Carolina

Project and Client: Vickers Realty
Location: 1336 South Graham Street, Charlotte, NC
Scope: Groundwater Sampling
Date: 12/9/05

Project Number: N20-952-05
Project Manager: TBM
Checked By: DAH
Prepared By: TBM

Well No.	Sample Date	Water Level Date	Sample Time	Well Depth (ft bls)	MP Elevation (ft)	Depth to Hydrocarbon (feet)	Depth to Water (ft-bmp)	Hydrocarbon Surface Elevation (feet)	Hydrocarbon Thickness (feet)	Water Level Elevation (ft)	Potentiometric Surface Elevation (feet)	Hgt. of Water Col. (ft)	Volume of Water (gal)	Vol. of Water Purged (gal)	Temp. (°C) 1	Temp. (°C) 2	Temp. (°C) 3	Specific Cond. (mhos) 1	Specific Cond. (mhos) 2	Specific Cond. (mhos) 3	pH 1	pH 2	pH 3	DO	Turbidity
MW-1	09/19/05	09/19/05	12:15	21	97.74	N/A	10.25	N/A	0.00	87.49	87.49	10.75	1.75	5.26	23.09	23.23	23.04	0.489	0.493	0.487	6.79	6.77	6.77	3.48	106
MW-2	09/19/05	09/19/05	11:45	24	98.26	N/A	10.71	N/A	0.00	87.55	87.55	13.29	2.16	6.50	23.05	23.24	23.19	0.571	0.567	0.569	6.87	6.71	6.69	5.07	91.7
MW-3	09/16/05	09/19/05	10:45	21	98.13	N/A	10.79	N/A	0.00	87.34	87.34	10.21	1.66	4.99	21.73	21.69	21.81	0.465	0.461	0.456	6.52	6.58	6.62	4.04	82.1

Comments:
N/A = Not applicable - No product detected
NM = Not measured

Table 1b.
Groundwater Elevation Record
Vickers Realty, Inc.
1336 South Graham Street
Charlotte, North Carolina

Project and Client: Vickers Realty
Location: 1336 South Graham Street, Charlotte, NC
Scope: Groundwater Sampling
Date: 12/9/05

Project Number: N20-952-05
Project Manager: TBM
Checked By: DAH
Prepared By: TBM

Well No.	Sample Date	Water Level Date	Sample Time	Well Depth (ft bls)	MP Elevation (ft)	Depth to Hydrocarbon (feet)	Depth to Water (ft-bmp)	Hydrocarbon Surface Elevation (feet)	Hydrocarbon Thickness (feet)	Water Level Elevation (ft)	Potentiometric Surface Elevation (feet)	Ht. of Water Col. (ft)	Volume of Water (gal)	Vol. of Water Rpt. (gal)												
MW-1		10/25/05		21	97.74	N/A	9.77	N/A	0.00	87.97	87.97	11.23	1.75													
MW-2		10/25/05		24	98.26	N/A	10.32	N/A	0.00	87.94	87.94	13.29	2.16													
MW-3		10/25/05		21	98.13	N/A	10.10	N/A	0.00	88.03	88.03	10.21	1.66													

Comments:
N/A = Not applicable - No product detected
NM = Not measured

Table 2a.
Well Sampling Record
Vickers Realty, Inc.
1336 South Graham Street
Charlotte, North Carolina

Project and Client: Vickers Realty
Location: 1336 South Graham Street, Charlotte, NC
Scope: Groundwater Sampling
Date: 12/9/05

Project Number: N20-952-05
Project Manager TBM
Checked By: DAH

Prepared By: TBM

Well No.	Sample Date	Water Level Date	Sample Time	Well Depth (ft bls)	MP Elevation (ft)	Depth to Hydrocarbon (feet)	Depth to Water (ft-bmp)	Hydrocarbon Surface Elevation (feet)	Hydrocarbon Thickness (feet)	Water Level Elevation (ft)	Potentiometric Surface Elevation (feet)	Hgt of Water Col (ft)	Volume of Water (gal)	Vol of Water Pgd (gal)	Temp. (oC) 1	Temp. (oC) 2	Temp. (oC) 3	Specific Cond. (siemens/cm) 1	Specific Cond. (siemens/cm) 2	Specific Cond. (siemens/cm) 3	pH 1	pH 2	pH 3	DO	Turbidity
MW-1	09/19/05	11/16/05	12:15	21	97.74	N/A	10.82	N/A	0.00	86.92	86.92	10.18	1.66	6.00	23.09	23.23	23.04	0.489	0.493	0.487	6.79	6.77	6.77	3.48	106
MW-2	09/19/05	11/16/05	11:45	24	98.26	N/A	11.38	N/A	0.00	86.88	86.88	12.62	2.06	6.00	23.05	23.24	23.19	0.571	0.567	0.569	6.87	6.71	6.69	5.07	91.7
MW-3	09/16/05	11/16/05	10:45	21	98.13	N/A	11.12	N/A	0.00	87.01	87.01	9.88	1.61	6.00	21.73	21.69	21.81	0.465	0.461	0.456	6.52	6.58	6.62	4.04	82.1
MW-4	11/16/05	11/16/05	13:30	21.43	97.94	N/A	11.01	N/A	0.00	86.93	86.93	10.42	1.70	17.00	21.25	21.05	20.95	0.524	0.515	0.520	6.54	6.51	6.53	8.80	NM
MW-5	11/16/05	11/16/05	14:00	21.23	99.27	N/A	11.95	N/A	0.00	87.32	87.32	9.28	1.51	15.00	21.50	21.47	21.45	0.416	0.405	0.402	6.74	6.71	6.75	8.38	NM
MW-6	11/16/05	11/16/05	14:30	21.45	100.00	N/A	12.77	N/A	0.00	87.23	87.23	8.68	1.41	15.00	21.25	21.23	21.18	0.281	0.265	0.270	6.34	6.18	6.16	8.300	NM
MW-7d	11/16/05	11/16/05	15:30	62.15	97.75	N/A	52.80	N/A	0.00	44.95	44.95	9.35	1.52	5.00	19.61	19.55	19.51	0.542	0.521	0.530	7.71	7.75	7.68	9.05	NM

Comments:
N/A = Not applicable - No product detected
NM = Not measured

Table 2b.
Groundwater Elevation Record
Vickers Realty, Inc.
1336 South Graham Street
Charlotte, North Carolina

Project and Client: Vickers Realty
Location: 1336 South Graham Street, Charlotte, NC
Scope: Groundwater Sampling
Date: 12/9/05

Project Number: N20-952-05
Project Manager TBM
Checked By: DAH
Prepared By: TBM

Well No.	Sample Date	Water Level Date	Sample Time	Well Depth (ft bls)	MP Elevation (ft)	Depth to Hydrocarbon (feet)	Depth to Water (ft-bmp)	Hydrocarbon Surface Elevation (feet)	Hydrocarbon Thickness (feet)	Water Level Elevation (ft)	Potentiometric Surface Elevation (feet)	Hgt. of Water Col. (ft)	Volume of Water (gal)	Vol. of Water Pgd. (gal)	Temp. (°C) 1	Temp. (°C) 2	Temp. (°C) 3	Specific Cond. (siemens/cm) 1	Specific Cond. (siemens/cm) 2	Specific Cond. (siemens/cm) 3	pH 1	pH 2	pH 3	DO	Turbidity
MW-1		12/08/05		21	97.74	N/A	8.40	N/A	0.00	89.34	89.34	12.60	2.05												
MW-2		12/08/05		24	98.26	N/A	9.02	N/A	0.00	89.24	89.24	14.98	2.44												
MW-3		12/08/05		21	98.13	N/A	8.81	N/A	0.00	89.32	89.32	12.19	1.99												
MW-4		12/08/05		21.43	97.94	N/A	8.57	N/A	0.00	89.37	89.37	12.86	2.10												
MW-5		12/08/05		21.23	99.28	N/A	9.87	N/A	0.00	89.41	89.41	11.36	1.85												
MW-6		12/08/05		21.45	100.00	N/A	10.99	N/A	0.00	89.01	89.01	10.46	1.70												
MW-7d		12/08/05		62.15	97.95	N/A	10.60	N/A	0.00	87.35	87.35	51.55	8.40												

Comments:
N/A = Not applicable - No product detected
NM = Not measured

Table 3

Soil Analytical Detection Summary

Vickers Realty, Inc.

1336 South Graham Street

Charlotte, North Carolina

(Results in mg/kg)

Sample Location Depth Sampled (ft bls) Date Sampled	MW-1 5' 9/15/2005	MW-1 10' 9/15/2005	MW-2 5' 9/15/2005	MW-2 10' 9/15/2005	MW-3 5' 9/15/2005	MW-3 10' 9/15/2005	MW-3 15' 9/15/2005	**Regulatory Action Limts and Risk-Based Cleanup Goals**		
							*	**Risk-Based Maximum Soil Contaminant Concentrations**		
Organic Compounds (EPA Methods 8260 and 8270) Results in mg/kg								Ind./Comm.	Residential	Soil-to-Groundwater
n-Butylbenzene	**21**	ND	ND	2.2	0.019	0.180	0.310	***4088***	***156***	**4**
Ethylbenzene	**23**	0.0052	0.090	**0.340**	ND	0.0065	ND	***40000***	***1560***	**0.24**
Isopropylbenzene	**3.2**	ND	0.042	1.20	0.0052	0.058	ND	***40880***	***1564***	**2**
Naphthalene	**39**	0.11	**0.99**	**4.70**	0.230	**0.850**	**1.400**	***1635***	***63***	**0.58**
n-Propylbenzene	**16**	0.0022	0.170	**2.00**	0.0043	0.058	ND	***4088***	***156***	**2**
Toluene	**14**	0.0016	ND	ND	ND	ND	ND	***82000***	***3200***	**7**
1,2,4-Trimethylbenzene	**130**	0.0046	1.400	0.310	0.0015	ND	0.620	***20440***	***782***	**8**
1,3,5-Trimethylbenzene	**45**	0.0016	0.470	0.130	ND	ND	0.180	***20440***	***782***	**7**
Xylenes	**120**	0.0082	0.190	ND	ND	0.0055	0.180	***200000***	***32000***	**5**
2-Methylnaphthalene	**26**	0.35	0.470	**6.30**	0.110	**5.90**	**4.60**	***1635***	***63***	**3**
Phenanthrene	0.69	0.085	ND	3.40	3.70	3.10	7.50	***12264***	***469***	**60**
Acetone	ND	0.0058	0.250	0.450	0.037	0.059	ND	***40880***	***1564***	**3**
bis(2-Ethylhexyl)phthalat	ND	0.04	ND	0.098	ND	ND	ND	***410***	***46***	**6.67**
sec-Butylbenzene	ND	ND	0.058	1.40	0.027	0.200	0.170	***4088***	***156***	**3**
Diisopropyl ether (IPE)	ND	ND	0.020	**0.410**	ND	0.0018	ND	***4088***	***156***	**0.37**
tert-Butylbenzene	ND	ND	ND	0.130	ND	0.029	ND	***4088***	***156***	**3**
p-Isopropyltoluene	ND	ND	ND	0.820	ND	ND	ND	***NE***	***NE***	**NE**
Pyrene	ND	ND	ND	0.320	3.70	1.20	8.30	***12264***	***469***	**286**
2-Butanone (MEK)	ND	ND	ND	ND	0.0059	ND	ND	***245280***	***9385***	**0.7**
Acenaphthene	ND	ND	ND	ND	0.440	ND	ND	***24000***	***940***	**8**
Anthracene	ND	ND	ND	ND	0.630	ND	1.10	***122000***	***4600***	**995**
Benzo(a)anthracene	ND	ND	ND	ND	***1.900***	**0.570**	***4.90***	***8***	***0.88***	**0.34**
Benzo(a)pyrene	ND	ND	ND	ND	***1.500***	***0.470***	[illegible]	[illegible]	***0.088***	**0.091**
Benzo(b)fluoranthene	ND	ND	ND	ND	2.400	0.700	5.80	***78***	***9***	**12**
Benzo(g,h,I)perylene	ND	ND	ND	ND	0.860	0.300	2.60	***12264***	***469***	**6720**
Benzo(k)fluoranthene	ND	ND	ND	ND	0.910	0.290	2.60	***78***	***9***	**12**
Chrysene	ND	ND	ND	ND	2.100	0.600	5.40	***780***	***88***	**38**
Dibenzo(a,h)anthracene	ND	ND	ND	ND	***0.310***	ND	ND	***0.78***	***0.088***	**0.17**
Dibenzofuran	ND	ND	ND	ND	0.260	ND	ND	***1635***	***62***	**4.7**
Fluoranthene	ND	ND	ND	ND	4.600	1.200	10.00	***16400***	***620***	**276**
Fluorene	ND	ND	ND	ND	0.380	1.100	1.20	***16400***	***620***	**44**
Indeno (1,2,3-c,d)pyrene	ND	ND	ND	ND	0.800	0.260	***2.40***	***8***	***0.88***	**3**
Di-n-butyl phthalate	ND	ND	0.16	ND	0.07	ND	ND	***NE***	***NE***	**NE**
Volatile and Extractable Petroleum Hydrocarbons (via MADEP Methods) Results in mg/kg										
VPH-C5-C8 Aliphatics	42	2.5	18	**160**	5.3	9.2	5.6	***24528***	***939***	**72**
VPH C9-C12 Aliphatics	ND	0.91	190	390	14	26	15	***N/A***	***N/A***	**N/A**
EPH C9-C18 Aliphatics	190	ND	12	910	100	690	120	***N/A***	***N/A***	**N/A**
Total C9-C18 Aliphatics	190	0.91	202	1300	114	716	135	***245,280***	***9,386***	**3,255**
EPH C19-C36 Aliphatics	42	ND	ND	190	11	92	18	***Health-based level*****	***93,860***	**Immobile*****
VPH C9-C10 Aromatics	ND	1.2	69	160	10	28	14	***N/A***	***N/A***	**N/A**
EPH C11-C22 Aromatics	170	ND	5.3	420	68	580	140	***N/A***	***N/A***	**N/A**
Total C9-C22 Aromatics	**170**	1.2	**74.3**	***580***	**78**	***608***	**154**	***12264***	***469***	**34**

Notes:

1. mg/kg = milligrams per kilogram
2. Soil-to-Groundwater = Maximum Soil-to-Groundwater Contaminant Concentrtation
3. Residential = Maximum Residential Soil Contaminant Concentration
4. Not Analyzed
5. Bold values indicate an exceedance of any of the MSCCs
6. Bold and Italics values indicate the detection is above the Residential MSCCs
7. Bold, Italics and Underline indicate the detection is above the Industrial/Commercial MSCCs
8. NE = Not established
9. ND = Not Detected above analytical method detection limit
10. * Sample collected from depth below which water stabilized in MW-3
11. *** Compound considered immobile for practical risk based assessment designation
12. * Health-based level > 100%
13. N/A =Not Applicable

Table 4.

Groundwater Sample Analytical Detection Summary

Vickers Realty, Inc.
1336 South Graham Street
Charlotte, North Carolina
(Results in ug/L)

Sample Location / Date Sampled / Detected Constituents	MW-1 9/16/2005	MW-2 9/19/2005	MW-3 9/19/2005	MW-4 11/16/2005	MW-5 11/16/2005	MW-6 11/16/2005	MW-7d 11/16/2005	Regulatory Action Limits	
Volatile Organic Compounds (EPA Method 8260B)								Risk-Based Goals	NC 2L Standards*
Benzene	**12**	0.88	0.77	**11**				*5,000*	**1**
Ethylbenzene	**81**	1	0.810	**60**				*29,000*	**29**
Diisopropyl ether (IPE)	**84**	**100**	9.2	**84**			0.56	*70,000*	**70**
MTBE		12	1.4					*200,000*	**200**
Toluene	1.4	1.1	3.2	0.62				*257,500*	**1,000**
Xylenes	15	0.67	0.31	11				*87,500*	**530**
Semivolatile Organic Compounds (EPA Method 8270C)									
Acenaphthene	8.2	7	9.7	3.9				*2,120*	**80**
Diethylphthalate				1.2	1.0		1.3	*NE*	**5000**
Di-n-butyl phthalate							2.2	*NE*	**700**
Naphthalene	27	16	18	8.1				*15,500*	**21**
Phenanthrene	11	10	11					*410*	**210**
Phenol		7.2	3.4	42				*NE*	**300**
Cyclopentanol, 1-methyl		43		28				*NE*	**NE**
2,3-Butanediol, 2,3-dimethyl		130						*NE*	**NE**
Benzene, 4-ethyl-1,2-dimethyl		26						*NE*	**NE**
Benzene,2-ethenyl-1,4-dimethyl	53	22	28	39				*NE*	**NE**
Benzene, 1-methyl-2-(1-methyl-2-propenyl)				30				*NE*	**NE**
Naphthalene, 1-methyl	59	48	94					*NE*	**NE**
Naphthalene, 1,6-dimethyl	58	76						*NE*	**NE**
Pentadecane, 2, 6, 10, 14-tetramethyl		29	36					*NE*	**NE**
Ethyl Acetate	88		170				32	*2,600,000*	**2,600**
Indane	81			45				*NE*	**NE**
2-Ethyl-2,3-dihydro-1H-indene	33							*NE*	**NE**
Tridecane	100							*NE*	**NE**
Naphthalene, 1,7-dimethyl	73							*NE*	**NE**
Naphthalene, 2,3-dimethyl				23				*NE*	
Naphthalene, 2,6-dimethyl			62					*NE*	**NE**
Naphthalene, 2,7-dimethyl	39							*NE*	**NE**
Pentadecane	46							*NE*	**NE**
Napththalene, 2,3,6-trimethyl	36							*NE*	**NE**
Hexadecane	49							*NE*	**NE**
Hexadecane, 7,9-dimethyl	72							*NE*	**NE**
Eicosane	37							*NE*	**NE**
Fluorene			1.2	3.5				*950*	**280**
Dodecane, 2,6,10-trimethyl			22					*NE*	**NE**
Biphenyl			20					*NE*	**NE**
Napththalene, 1,6,7-trimethyl			24					*NE*	**NE**
9H-Fluorene, 1-methyl			25					*NE*	**NE**
2(3H)-Furanone, 5-heptyldihydro-							31	*NE*	**NE**
Volatile and Extractable Petroleum Hydrocarbons (via MADEP Methods)									
VPH-C5-C8 Aliphatics	360	170		**580**				*N/A*	**420**
VPH C9-C12 Aliphatics	220	79		160	77	63	59	*N/A*	**N/A**
EPH C9-C18 Aliphatics	630	130	670					*N/A*	**N/A**
Total C9-C18 Aliphatics	850	209	670	160	77	63	59	*N/A*	**4,200**
EPH C19-C36 Aliphatics	86		45				82	*N/A*	**42,000**
VPH C9-C10 Aromatics	300	140	180	390				*N/A*	**N/A**
EPH C11-C22 Aromatics	850	520	1,200	290	54	58	74	*N/A*	**N/A**
Total C9-C22 Aromatics	**1150**	**660**	**1380**	**680**	54	58	74	*N/A*	**210**

Notes:

1. ug/L+A13 = micrograms per liter
2. Bold values indicate the detection is above the NC 2L Standard
3. NE = Not Established
4. Blank spaces indicate constituent was not detected
5. * - Includes Interim and Final Groundwater Quality Standards
6. N/A = Not Applicable

APPENDIX A

LIMITED SITE ASSESSMENT RISK CLASSIFICATION AND LAND USE FORM

Limited Site Assessment Risk Classification and Land Use Form

Part I – Groundwater/Surface Water/Vapor Impacts
High Risk

1. Has the discharge or release contaminated any water supply wells including any used for non-drinking purposes? **NO**

2. Is a water supply well used for drinking water located within 1000 feet of the source area the discharge or release? **NO**

3. Is a water supply well used for any purpose (e.g., irrigation, washing cars, industrial cooling water, filling swimming pools) located within 250 feet of the source area of the release or discharge? **NO**

4. Does groundwater within 500 feet of the source area of the discharge or release have the potential for future use in that there is no other source of water supply other than the groundwater? **NO**
   This facility and the immediate surrounding area are located in an area that is provided municipal water by the Charlotte Mecklenburg Utility Department (CMUD) and the potential for future groundwater use within 500 feet of source area is not likely.

5. Do vapors from the discharge or release pose a threat of explosion because of accumulation of the vapors in a confined space or pose any other serious threat to public health, public safety or the environment? **NO**

6. Are there other factors that would cause the discharge or release to pose an imminent danger to public health, public safety, or the environment? **NO**

Intermediate Risk

7. Is a surface water body located within 500 feet of the source area of the discharge or release? **NO**
   Irwin Creek is located approximately 1,000 feet to the west northwest of the release site.

8. Is the source area of discharge or release located within a designated wellhead protection area as defined in 42 USC 300h-7(e)? **NO**

9. Is the discharge or release located in the Coastal Plain physiographic region as designated on a map entitled "Geology of North Carolina" published by the Department in 1985? **NO**

10. Do the levels of groundwater contamination for any contaminate exceed the gross contamination levels established (see Table 7) by the Department? **NO**

Part II – Land Use

Property Containing Source Area of Discharge or Release

The questions below pertain to the property containing the source area of the release.

1. Does the property contain one or more primary or secondary residences (permanent or temporary)? **NO**

2. Does the property contain a school, daycare center, hospital, playground, park, recreation area, church, nursing home, or other place of public assembly? **NO**

3. Does the property contain a commercial (e.g., retail, warehouse, office/business space, etc.) or industrial (e.g., manufacturing, utilities, industrial research and development, chemical/petroleum bulk storage, etc.) enterprise, an inactive commercial or industrial enterprise, or is the land undeveloped? **YES**
   The property was used as a trucking company, warehouse and shipping and receiving facility and is currently vacant.

4. Do children visit the property? **NO**

5. Is access to the property reliably restricted with its use (e.g., by fences, security personnel or both)? **YES**

6. Do pavement, buildings, or other structures cap the contaminated soil? **YES/NO**
   Asphalt pavement caps the soil, except in the area of the former tank basin, which has the clean gravel backfill capping

7. What is the zoning status of the property?
   The property is zoned Industrial/Commercial I-2

8. Is the property likely to change in the next 20 years? **NO**

Property Surrounding Source Area of Release or Discharge

The questions below pertain to the area within 1500 feet of the source area of the discharge or release (excludes property containing source area of the release):

11. What is the distance from the source area of the release to the nearest primary or secondary residence (permanent or temporary)?
    The closest residential homes are approximately 800 feet west southwest of the source area and the residential properties use municipal supply wells.

12. What is the distance from the source area of the release to the nearest school, daycare, center, hospital, playground, recreation area, church, nursing home or other place of public assembly?
    The nearest church is located approximately 1,700 feet to the south-southeast from the site. A school and other churches were identified at distances greater than 2,000 feet south of the site.

13. What is the zoning status of properties in the surrounding area?
    Properties in the vicinity are zoned primarily Industrial/Commercial with residential more than 750 feet from the source area.

14. Briefly characterize the use and activities of the land in the surrounding area.
    Land use in area is generally comprised of industrial properties to the north and west and commercial properties to the south and east of the site.

October 10, 2005

RJS/STS, LLC
3727 Mooreland Farms Road
Charlotte, NC 28226

RE: Property at 1320 S. Graham Street
Parcel Number-07326216

October 10, 2005

Mr. Hal H. Conroy
140 Jamie Wind Ct.
Mooresville, NC 28115

RE: Property at 501 Penman Street
Parcel Number 07326217

October 10, 2005

Department of Transportation
206 Charter Street
Albemarle, NC 28001

RE: Property at 521 Penman Street
Parcel Number 07326218

October 10, 2005

Charlotte Pipe and Foundry, Inc.
2109 Randolph Road
Charlotte, NC 28207

RE: Property at 624 W. Summit Avenue
Parcel Number 07326203

October 10, 2005

Mr. Bascom V. Belk Jr.
BVB Properties
4508 East Independence Blvd.
Suite 207
Charlotte, NC 28205-7486

Change 1
August 2002

Figure 18
Water Supply Well Information Survey

(This line to be completed by Responsible Party or their representative)
Incident Number: **Incident Name:**

Please Provide the Following Information (to the best of your knowledge)

Name and telephone number of person completing the survey Joanne Conroy 704-358-0459
Address of property receiving survey 1300 South Graham St
City Charlotte, NC 28203 County Mecklenburg

What is the source of your drinking water? Public Water / Water Supply Well / Stream Intake / Other (please explain below) Public water

Is there a water supply well on this property? Yes / No If "No" disregard remaining questions and return survey

Name and address of owner(s) of property with water supply well

How many water supply wells are on your property?
What is the well(s) used for? (check all that apply) Drinking _____, Irrigation _____, Swimming Pool _____, Water Livestock _____, Other (specify) _____, You do not use the Well _____.
How many residences are connected to the well (list addresses below)?

How deep is the well(s)? Date well was installed?
What is the casing depth of the well(s)?
What is the screen interval of the well(s)?

Additional water supply well information:

(This part to be completed by Responsible Party or their representative)
Please return completed survey to _____ (Name of Consulting Firm) by ___ (Date) using one of the following methods:

3. Telephone (Consultant's Telephone Number) _
4. E-mail to (Consultants E-mail Address) _

If you have any questions, please contact the consultant indicated above or the UST Section _____ Office at (____) _____-_____

APPENDIX B

SOIL BORING LITHOLOGIC LOG

SUBSURFACE EXPLORATION LOG & WELL COMPLETION RECORD

CLIENT: Vickers Realty	**BORING I.D.:** MW-1
PROJECT NAME: Phase I LSA	**DATE STARTED:** September 15, 2005
PROJECT NO.: N17-927.2-05	**DATE COMPLETED:** September 16, 2005
PROJECT LOCATION: 1336 South Graham Street, Charlotte, North Carolina	**DRILLER/REG No.:** Billy Ewing, NC Reg #3110 ARM Environmental
	DRILL METHOD: Rotary Hollow Stem Auger/ Air Hammer
	BORING DIAMETER: 8.5-inch/5.78-inch
SAMPLING METHOD/INTERVAL: Split spoon	**TOTAL DEPTH:** 21 feet
WATER LEVEL: ~10.25'	**REMARKS:**

DESCRIPTIVE LOG

SAMPLE INTERVAL	SAMPLE RECOVERY	BLOWS PER 6"	PID/FID (ppm)	ELAVATION (ft msl)	GRAPHIC COLUMN WELL CONSTRUCTION	DEPTH (FT)	LITHOLOGIC DESCRIPTION OF MATERIAL	MOISTURE (RELATIVE)
							Land Surface	
						1.0	0"-6"-Asphalt/gravel	
						2.0		
						4.0	Med. tan and light yellowish brown (some lt. gray and black) slightly clayey SILT	
4-6	18 inches		>10,000			6.0	(Saprolite)	Dry
						8.0	Medium light greenish gray sandy SILT with rock fragments (saprolite)	
8-10	18 inches		344			10.0		Dry
						12.0		
						14.0		
						16.0	Auger refusal @ 14'; air drilling from 14'-21'	
						18.0	Cuttings indicate light gray, fine-grained granodiorite	
						20.0		
						21.0		Wet
						24.0	Boring terminated at 21 feet by field scientist; Set 2" diameter, schedule 40 PVC	
						26.0	with 15 feet of factory-slotted screen (0.010" slots) from 6 feet to 21 feet; and riser	
						29.0	casing to surface - Annular materials installed through the augers as shown in graphic	
						30.0		
						32.0		
						34.0		
						36.0		
						38.0		
						40.0		
						42.0		
						44.0		
						46.0		
						48.0		
						49.0		
						52.0		
						54.0		
						56.0		
						58.0		
						60.0		
						62.0		
						64.0		
						66.0		
						68.0		
						70.0		
						72.0		
						74.0		
						76.0		
						78.0		

DRILLING METHODS
AIR - AIR ROTARY
CFA - CONTINUOUS FLIGHT AUGER
DC - DRIVEN CASING
HA - HAND AUGER
HSA - HOLLOW STEM AUGER
MD - MUD DRILLING
RC - ROCK CORING
WR - WATER ROTARY

* - Sample collected for analysis

SAMPLING METHODS
SS - SPLIT SPOON
ST - SHELBY TUBE

GRAPHIC COLUMN
GROUT
BENTONITE
SAND
SCREEN

ARM ENVIRONMENTAL SERVICES, INC.
11164 Downs Road
Pineville, North Carolina 28134
(704) 369-0621
704-369-0623 (fax)

SUBSURFACE EXPLORATION LOG & WELL COMPLETION RECORD

CLIENT: Vickers Realty	**BORING I.D.:** MW-2
PROJECT NAME: Phase I LSA	**DATE STARTED:** September 15, 2005
PROJECT NO.: N17-927.2-05	**DATE COMPLETED:** September 16, 2005
PROJECT LOCATION: 1336 South Graham Street, Charlotte, North Carolina	**DRILLER/REG No.:** Billy Ewing, NC Reg #3110 ARM Environmental
	DRILL METHOD: Rotary Hollow Stem Auger/ Air Hammer
	BORING DIAMETER: 8.5-inch/5.78-inch
SAMPLING METHOD/INTERVAL: Split spoon	**TOTAL DEPTH:** 24 feet
WATER LEVEL: ~10.71'	**REMARKS:**

DESCRIPTIVE LOG

SAMPLE INTERVAL	SAMPLE RECOVERY	BLOWS PER 6"	PID/FID (ppm)	ELAVATION (ft msl)	GRAPHIC COLUMN WELL CONSTRUCTION	DEPTH (FT)	LITHOLOGIC DESCRIPTION OF MATERIAL	MOISTURE (RELATIVE)
							Land Surface	
						1.0	0"-6"-Asphalt/gravel	
						2.0		
						4.0	Med. tannish brown and red, slightly sandy, clayey SILT	
4-6	18 inches		1,509			6.0		Dry
						8.0		
9-11	18 inches		1297			10.0	Medium dark greenish brown and dark gray with tan mottles, silty CLAY	
						12.0		Dry
						14.0		
						16.0	Auger refusal @ 14'; air drilling from 14'-24'	
						18.0		
						20.0	Cuttings indicate light gray, fine-grained granodiorite	
						21.0		
						24.0		Wet
						26.0	Boring terminated at 24 feet by field scientist; Set 2" diameter, schedule 40 PVC	
						29.0	with 15 feet of factory-slotted screen (0.010" slots) from 9 feet to 24 feet; and riser	
						30.0	casing to surface - Annular materials installed through the augers as shown in graphic	
						32.0		
						34.0		
						36.0		
						38.0		
						40.0		
						42.0		
						44.0		
						46.0		
						48.0		
						49.0		
						52.0		
						54.0		
						56.0		
						58.0		
						60.0		
						62.0		
						64.0		
						66.0		
						68.0		
						70.0		
						72.0		
						74.0		
						76.0		
						78.0		

DRILLING METHODS
AIR - AIR ROTARY
CFA - CONTINUOUS FLIGHT AUGER
C - DRIVEN CASING
- HAND AUGER
SA - HOLLOW STEM AUGER
MD - MUD DRILLING
RC - ROCK CORING
WR - WATER ROTARY

* - Sample collected for analysis

SAMPLING METHODS
SS - SPLIT SPOON
ST - SHELBY TUBE

GRAPHIC COLUMN
GROUT
BENTONITE
SAND
SCREEN

ARM ENVIRONMENTAL SERVICES, INC.
11164 Downs Road
Pineville, North Carolina 28134
(704) 369-0621
704-369-0623 (fax)

SUBSURFACE EXPLORATION LOG & WELL COMPLETION RECORD

CLIENT: Vickers Realty	**BORING I.D.:** MW-3
PROJECT NAME: Phase I LSA	**DATE STARTED:** September 15, 2005
PROJECT NO.: N17-927.2-05	**DATE COMPLETED:** September 16, 2005
PROJECT LOCATION: 1336 South Graham Street, Charlotte, North Carolina	**DRILLER/REG No.:** Billy Ewing, NC Reg #3110 ARM Environmental
	DRILL METHOD: Rotary Hollow Stem Auger/ Air Hammer
	BORING DIAMETER: 8.5-inch/5.78-inch
SAMPLING METHOD/INTERVAL: Split spoon	**TOTAL DEPTH:** 21 feet
WATER LEVEL: ~10.79'	**REMARKS:**

DESCRIPTIVE LOG

SAMPLE INTERVAL	SAMPLE RECOVERY	BLOWS PER 6"	PID/FID (ppm)	ELAVATION (ft msl)	GRAPHIC COLUMN WELL CONSTRUCTION	DEPTH (FT)	LITHOLOGIC DESCRIPTION OF MATERIAL	MOISTURE (RELATIVE)
							Land Surface	
						1.0	0"-6"-Gravel	
						2.0		
						4.0	Med to dark brown and red slightly silty CLAY	
4-6	18 inches		56.8			6.0		Dry
						8.0		
9-11	18 inches		166			10.0	Medium to dark greenish brown slightly sandy, silty CLAY	Dry
						12.0		
14-16	12 inches		59.1			14.0	Medium to dark brown and tan slightly sandy SILT	
						16.0		
						17.0		
						19.0	Auger refusal @ 17'; air drilling from 17'-21'	
						21.0	Cuttings indicated light to medium gray, fine-grained granodiorite or diorite	Wet
						24.0	Boring terminated at 21 feet by field scientist; Set 2" diameter, schedule 40 PVC	
						26.0	with 15 feet of factory-slotted screen (0.010" slots) from 6 feet to 21 feet; and riser	
						29.0	casing to surface - Annular materials installed through the augers as shown in graphic	
						30.0		
						32.0		
						34.0		
						36.0		
						38.0		
						40.0		
						42.0		
						44.0		
						46.0		
						48.0		
						49.0		
						52.0		
						54.0		
						56.0		
						58.0		
						60.0		
						62.0		
						64.0		
						66.0		
						68.0		
						70.0		
						72.0		
						74.0		
						76.0		
						78.0		

DRILLING METHODS
AIR - AIR ROTARY
CFA - CONTINUOUS FLIGHT AUGER
DC - DRIVEN CASING
HA - HAND AUGER
HSA - HOLLOW STEM AUGER
MD - MUD DRILLING
RC - ROCK CORING
WR - WATER ROTARY

* - Sample collected for analysis

SAMPLING METHODS
SS - SPLIT SPOON
ST - SHELBY TUBE

GRAPHIC COLUMN
GROUT
BENTONITE
SAND
SCREEN

ARM ENVIRONMENTAL SERVICES, INC.
11164 Downs Road
Pineville, North Carolina 28134
(704) 369-0621
704-369-0623 (fax)

SUBSURFACE EXPLORATION LOG & WELL COMPLETION RECORD

CLIENT: Vickers Realty	**BORING I.D.:** MW-4
PROJECT NAME: Phase II LSA	**DATE STARTED:** November 15, 2005
PROJECT NO.: N20-952-05	**DATE COMPLETED:** November 15, 2005
PROJECT LOCATION: 1336 South Graham Street, Charlotte, North Carolina	**DRILLER/REG No.:** Lanny Teague, NC Reg #2576 ARM Environmental
	DRILL METHOD: Air Rotary
	BORING DIAMETER: 5.78-inch
SAMPLING METHOD/INTERVAL: No soil samples collected	**TOTAL DEPTH:** 22 feet
WATER LEVEL: ~11 feet below ground surface (ft bgs)	**REMARKS:**

DESCRIPTIVE LOG

SAMPLE INTERVAL	SAMPLE RECOVERY	BLOWS PER 6"	PID/FID (ppm)	ELAVATION (ft msl)	GRAPHIC COLUMN WELL CONSTRUCTION	DEPTH (FT)	LITHOLOGIC DESCRIPTION OF MATERIAL	MOISTURE (RELATIVE)
							Land Surface	
						2.0		
						3.0	Unconsolidated soil - generally light brown, medium gray and tan,	
						6.0	slightly clayey sandy SILT	
						7.0		Dry
						8.0		
						10.0		
						12.0		Dry
						14.0		
						16.0		
						18.0		
						19.0	16 - 19 ft bgs - Approximate depth of bedrock surface as suggested by rig performance	
						20.0	Medium to light gray, fine-grained granodiorite	
						22.0		Wet
						24.0	Boring terminated at 22 feet by field scientist; Set 2" diameter, schedule 40 PVC	
						26.0	with 15 feet of factory-slotted screen (0.010" slots) from 7 feet to 22 feet; and riser	
						29.0	casing to surface - Annular materials installed as shown in graphic	
						30.0		
						32.0		
						34.0		
						36.0		
						38.0		
						40.0		
						42.0		
						44.0		
						46.0		
						48.0		
						49.0		
						52.0		
						54.0		
						56.0		
						58.0		
						60.0		
						62.0		
						64.0		
						66.0		
						68.0		
						70.0		
						72.0		
						74.0		
						76.0		
						78.0		

DRILLING METHODS
AIR - AIR ROTARY
CFA - CONTINUOUS FLIGHT AUGER
DC - DRIVEN CASING
HA - HAND AUGER
HSA - HOLLOW STEM AUGER
MD - MUD DRILLING
RC - ROCK CORING
WR - WATER ROTARY

* - Sample collected for analysis

SAMPLING METHODS
SS - SPLIT SPOON
ST - SHELBY TUBE

GRAPHIC COLUMN
GROUT
BENTONITE
SAND
SCREEN

ARM ENVIRONMENTAL SERVICES, INC.
11164 Downs Road
Pineville, North Carolina 28134
(704) 369-0621
704-369-0623 (fax)

SUBSURFACE EXPLORATION LOG & WELL COMPLETION RECORD

CLIENT: Vickers Realty	**BORING I.D.:** MW-5
PROJECT NAME: Phase II LSA	**DATE STARTED:** November 15, 2005
PROJECT NO.: N20-952-05	**DATE COMPLETED:** November 15, 2005
PROJECT LOCATION: 1336 South Graham Street, Charlotte, North Carolina	**DRILLER/REG No.:** Lanny Teague, NC Reg #2576 ARM Environmental
	DRILL METHOD: Air Rotary
	BORING DIAMETER: 5.78-inch
SAMPLING METHOD/INTERVAL: No soil samples collected	**TOTAL DEPTH:** 22 feet
WATER LEVEL: ~12 feet below ground surface (ft bgs)	**REMARKS:**

DESCRIPTIVE LOG

SAMPLE INTERVAL	SAMPLE RECOVERY	BLOWS PER 6"	PID/FID (ppm)	ELAVATION (ft msl)	GRAPHIC COLUMN WELL CONSTRUCTION	DEPTH (FT)	LITHOLOGIC DESCRIPTION OF MATERIAL	MOISTURE (RELATIVE)
							Land Surface	
						2.0		
						3.0	Unconsolidated soil - generally light brown, medium gray and tan,	
						6.0	slightly clayey sandy SILT	
						7.0		Dry
						8.0		
						10.0		
						12.0		Moist
						14.0		
						16.0		
						18.0	17 - 20 ft bgs - Approximate depth of bedrock surface as suggested by rig performance	
						20.0	Medium to light gray, fine-grained granodiorite	
						22.0		Wet
						24.0	Boring terminated at 22 feet by field scientist; Set 2" diameter, schedule 40 PVC	
						26.0	with 15 feet of factory-slotted screen (0.010" slots) from 7 feet to 22 feet; and riser	
						29.0	casing to surface - Annular materials installed as shown in graphic	
						30.0		
						32.0		
						34.0		
						36.0		
						38.0		
						40.0		
						42.0		
						44.0		
						46.0		
						48.0		
						49.0		
						52.0		
						54.0		
						56.0		
						58.0		
						60.0		
						62.0		
						64.0		
						66.0		
						68.0		
						70.0		
						72.0		
						74.0		
						76.0		
						78.0		

DRILLING METHODS
AIR - AIR ROTARY
CFA - CONTINUOUS FLIGHT AUGER
DC - DRIVEN CASING
HA - HAND AUGER
HSA - HOLLOW STEM AUGER
MD - MUD DRILLING
RC - ROCK CORING
WR - WATER ROTARY

* - Sample collected for analysis

SAMPLING METHODS
SS - SPLIT SPOON
ST - SHELBY TUBE

GRAPHIC COLUMN
GROUT
BENTONITE
SAND
SCREEN

ARM ENVIRONMENTAL SERVICES, INC.
11164 Downs Road
Pineville, North Carolina 28134
(704) 369-0621
704-369-0623 (fax)

SUBSURFACE EXPLORATION LOG & WELL COMPLETION RECORD

CLIENT: Vickers Realty	**BORING I.D.:** MW-6
PROJECT NAME: Phase II LSA	**DATE STARTED:** November 15, 2005
PROJECT NO.: N20-952-05	**DATE COMPLETED:** November 15, 2005
PROJECT LOCATION: 1336 South Graham Street, Charlotte, North Carolina	**DRILLER/REG No.:** Lanny Teague, NC Reg #2576 ARM Environmental
	DRILL METHOD: Air Rotary
	BORING DIAMETER: 5.78-inch
SAMPLING METHOD/INTERVAL: No soil samples collected	**TOTAL DEPTH:** 22 feet
WATER LEVEL: ~13 feet below ground surface (ft bgs)	**REMARKS:**

DESCRIPTIVE LOG

SAMPLE INTERVAL	SAMPLE RECOVERY	BLOWS PER 6"	PID/FID (ppm)	ELAVATION (ft msl)	GRAPHIC COLUMN WELL CONSTRUCTION	DEPTH (FT)	LITHOLOGIC DESCRIPTION OF MATERIAL	MOISTURE (RELATIVE)
							Land Surface	
						2.0		
						3.0	Unconsolidated soil - generally light brown, medium gray and tan,	
						6.0	slightly clayey sandy SILT	
						7.0		Dry
						8.0		
						10.0		
						12.0		Moist
						14.0		
						16.0		
						18.0	17 - 20 ft bgs - Approximate depth of bedrock surface as suggested by rig performance	
						20.0	Medium to light gray, fine-grained granodiorite	
						22.0		Wet
						24.0	Boring terminated at 22 feet by field scientist; Set 2" diameter, schedule 40 PVC	
						26.0	with 15 feet of factory-slotted screen (0.010" slots) from 7 feet to 22 feet; and riser	
						29.0	casing to surface - Annular materials installed as shown in graphic	
						30.0		
						32.0		
						34.0		
						36.0		
						38.0		
						40.0		
						42.0		
						44.0		
						46.0		
						48.0		
						49.0		
						52.0		
						54.0		
						56.0		
						58.0		
						60.0		
						62.0		
						64.0		
						66.0		
						68.0		
						70.0		
						72.0		
						74.0		
						76.0		
						78.0		

DRILLING METHODS
AIR - AIR ROTARY
CFA - CONTINUOUS FLIGHT AUGER
DC - DRIVEN CASING
HA - HAND AUGER
HSA - HOLLOW STEM AUGER
MD - MUD DRILLING
RC - ROCK CORING
WR - WATER ROTARY

* - Sample collected for analysis

SAMPLING METHODS
SS - SPLIT SPOON
ST - SHELBY TUBE

GRAPHIC COLUMN
GROUT
BENTONITE
SAND
SCREEN

ARM ENVIRONMENTAL SERVICES, INC.
11164 Downs Road
Pineville, North Carolina 28134
(704) 369-0621
704-369-0623 (fax)

SUBSURFACE EXPLORATION LOG & WELL COMPLETION RECORD

CLIENT: Vickers Realty	**BORING I.D.:** MW-7d
PROJECT NAME: Phase II LSA	**DATE STARTED:** November 14, 2005
PROJECT NO.: N20-952-05	**DATE COMPLETED:** November 15, 2005
PROJECT LOCATION: 1336 South Graham Street, Charlotte, North Carolina	**DRILLER/REG No.:** Lanny Teague, NC Reg #2576 ARM Environmental
	DRILL METHOD: Air Rotary
	BORING DIAMETER: 7.78-inch/4.5 inch
SAMPLING METHOD/INTERVAL: No soil samples collected	**TOTAL DEPTH:** 62 feet
WATER LEVEL: Initially dry - rose to 10.5 feet below ground surface (ft bgs) on 12/8/2005	**REMARKS:**

DESCRIPTIVE LOG

SAMPLE INTERVAL	SAMPLE RECOVERY	BLOWS PER 6"	PID/FID (ppm)	ELAVATION (ft msl)	GRAPHIC COLUMN WELL CONSTRUCTION	DEPTH (FT)	LITHOLOGIC DESCRIPTION OF MATERIAL	MOISTURE (RELATIVE)
							Land Surface	
						2.0	Well pad with manhole and locking compression cap on top of inner casing	
						3.0	Unconsolidated soil - generally light brown, medium gray and tan,	
						6.0	slightly clayey sandy silt	
						7.0	Bentonite-infused grout	Dry
						8.0		
						10.0		
						13.0		Moist
						14.0	13-18 ft bgs - Gray to brown weathered rock	
						16.0		
						18.0		
						20.0	6-inch surface casing	
						22.0		Moist
						24.0		
						26.0		
						29.0		
						30.0		
						32.0		
						34.0	Medium to light gray, fine-grained granodiorite (no significant water bearing fractures apparent from cuttings)	Dry
						35.0		
						38.0	Surface casing set to 35 feet	
						40.0	2-inch inner casing	
						42.0		
						44.0		
						46.0	Hydrated sodium bentonite seal	
						48.0		
						50.0		Dry
						52.0		
						54.0	Filter sand pack	
						56.0		
						58.0	Well Screen	
						60.0		
						62.0		Moist
						64.0	Inner boring terminated at 62 feet by field scientist; Set 2" diameter, schedule 40 PVC	
						66.0	with 10 feet of factory-slotted screen (0.010" slots) from 52 feet to 62 feet; and riser	
						68.0	casing to surface - Annular materials installed down borehole as indicated by graphic	
						70.0		
						72.0		
						74.0		
						76.0		
						78.0		

DRILLING METHODS
AIR - AIR ROTARY
CFA - CONTINUOUS FLIGHT AUGER
DC - DRIVEN CASING
HA - HAND AUGER
HSA - HOLLOW STEM AUGER
MD - MUD DRILLING
RC - ROCK CORING
WR - WATER ROTARY

Sample collected for analysis

SAMPLING METHODS
SS - SPLIT SPOON
ST - SHELBY TUBE

GRAPHIC COLUMN
GROUT
BENTONITE
SAND
SCREEN

ARM ENVIRONMENTAL SERVICES, INC.
11164 Downs Road
Pineville, North Carolina 28134
(704) 369-0621
704-369-0623 (fax)

APPENDIX C

MONITORING WELL CONSTRUCTION RECORDS

NON RESIDENTIAL WELL CONSTRUCTION RECORD

North Carolina Department of Environment and Natural Resources- Division of Water Quality

WELL CONTRACTOR CERTIFICATION # 3110

1. WELL CONTRACTOR:

William C Ewing
Well Contractor (Individual) Name

ARM Environmental
Well Contractor Company Name

STREET ADDRESS 1210 S. First St Ext

Columbia S.C. 29209
City or Town State Zip Code

(803) 783-3314
Area code- Phone number

2. WELL INFORMATION:

SITE WELL ID #(if applicable) MW-1

STATE WELL PERMIT#(if applicable)

DWQ or OTHER PERMIT #(if applicable)

WELL USE (Check Applicable Box) Monitoring ☒ Municipal/Public ☐

Industrial/Commercial ☑ Agricultural ☐ Recovery ☐ Injection ☐

Irrigation ☐ Other ☐ (list use)

DATE DRILLED 9/15/05

TIME COMPLETED 9/16/05 AM ☐ PM ☑

3. WELL LOCATION:

CITY: Charlotte COUNTY Mecklenburg

1336 South Graham Street
(Street Name, Numbers, Community, Subdivision, Lot No., Parcel, Zip Code)

TOPOGRAPHIC / LAND SETTING:

☐ Slope ☐ Valley ☑ Flat ☐ Ridge ☐ Other
(check appropriate box)

LATITUDE 35° 13' 19'

LONGITUDE 80° 51' 37'

May be in degrees, minutes, seconds or in a decimal format

Latitude/longitude source: ☐ GPS ☑ Topographic map

(location of well must be shown on a USGS topo map and attached to this form if not using GPS)

4. FACILITY - is the name of the business where the well is located.

FACILITY ID #(if applicable) 0-003806

NAME OF FACILITY Vickers Realty

STREET ADDRESS 1336 South Graham Street

Charlotte NC 28203
City or Town State Zip Code

CONTACT PERSON Mr. Vince Vickers

MAILING ADDRESS P.O. Box 30845

Charlotte NC 28230
City or Town State Zip Code

(704) 333-2392
Area code - Phone number

5. WELL DETAILS:

a. TOTAL DEPTH: 21

b. DOES WELL REPLACE EXISTING WELL? YES ☐ NO ☒

c. WATER LEVEL Below Top of Casing: _____ FT.
(Use "+" if Above Top of Casing)

d. TOP OF CASING IS 0 FT. Above Land Surface*
*Top of casing terminated at/or below land surface may require a variance in accordance with 15A NCAC 2C .0118.

e. YIELD (gpm): _____ METHOD OF TEST _____

f. DISINFECTION: Type _____ Amount _____

g. WATER ZONES (depth):

From	To	From	To
21	19		

6. CASING:

From	To	Ft.	Diameter	Thickness/ Weight	Material
.6	0		2	40	PVC

7. GROUT:

From	To	Ft.	Material	Method
.3	0		Bentonite/portland	Tremie

8. SCREEN:

From	To	Ft.	Diameter	In.	Slot Size	In.	Material
21	6		2		.010		PVC

9. SAND/GRAVEL PACK:

From	To	Ft.	Size	Material
21	4		#2	

10. DRILLING LOG

From	To	Formation Description

11. REMARKS:

I DO HEREBY CERTIFY THAT THIS WELL WAS CONSTRUCTED IN ACCORDANCE WITH 15A NCAC 2C, WELL CONSTRUCTION STANDARDS, AND THAT A COPY OF THIS RECORD HAS BEEN PROVIDED TO THE WELL OWNER.

SIGNATURE OF CERTIFIED WELL CONTRACTOR — DATE 9-23-05

William C Ewing
PRINTED NAME OF PERSON CONSTRUCTING THE WELL

Submit the original to the Division of Water Quality within 30 days. Attn: Information Mgt., 1617 Mail Service Center – Raleigh, NC 27699-1617 Phone No. (919) 733-7015 ext 568.

Form GW-1b
Rev. 7/05

NON RESIDENTIAL WELL CONSTRUCTION RECORD

North Carolina Department of Environment and Natural Resources- Division of Water Quality

WELL CONTRACTOR CERTIFICATION # 3110

1. WELL CONTRACTOR:

William C Ewing
Well Contractor (Individual) Name

ARM Environmental
Well Contractor Company Name

STREET ADDRESS 1210 First St. S. Ext
Cola S. C. 29209
City or Town State Zip Code

(803) 783-3314
Area code- Phone number

2. WELL INFORMATION:

SITE WELL ID #(if applicable) MW-2

STATE WELL PERMIT#(if applicable)

DWQ or OTHER PERMIT #(if applicable)

WELL USE (Check Applicable Box) Monitoring ☒ Municipal/Public ☐

Industrial/Commercial ☐ Agricultural ☐ Recovery ☐ Injection ☐

Irrigation ☐ Other ☐ (list use)

DATE DRILLED 9/15/05

TIME COMPLETED 9/16/05 AM ☐ PM ☑

3. WELL LOCATION:

CITY: Charlotte COUNTY Mecklenburg

1336 South Graham Street
(Street Name, Numbers, Community, Subdivision, Lot No., Parcel, Zip Code)

TOPOGRAPHIC / LAND SETTING:

☐ Slope ☐ Valley ☑ Flat ☐ Ridge ☐ Other
(check appropriate box)

LATITUDE 35° 13' 19"

LONGITUDE 80° 51' 37"

May be in degrees, minutes, seconds or in a decimal format

Latitude/longitude source: ☐ GPS ☑ Topographic map

(location of well must be shown on a USGS topo map and attached to this form if not using GPS)

4. FACILITY- is the name of the business where the well is located.

FACILITY ID #(if applicable) 0-003806

NAME OF FACILITY Vickers Realty

STREET ADDRESS 1336 South Graham Street
Charlotte NC 28203
City or Town State Zip Code

CONTACT PERSON Mr. Vince Vickers

MAILING ADDRESS P.O. Box 30845
Charlotte NC 28230
City or Town State Zip Code

(704) 333-2392
Area code - Phone number

5. WELL DETAILS:

a. TOTAL DEPTH: 24

b. DOES WELL REPLACE EXISTING WELL? YES ☐ NO ☒

c. WATER LEVEL Below Top of Casing: 24 FT.
(Use "+" if Above Top of Casing)

d. TOP OF CASING IS 0 FT. Above Land Surface*
*Top of casing terminated at/or below land surface may require a variance in accordance with 15A NCAC 2C .0118.

e. YIELD (gpm): _____ METHOD OF TEST _____

f. DISINFECTION: Type _____ Amount _____

g. WATER ZONES (depth):

From 24	To 19	From	To
From	To	From	To
From	To	From	To

6. CASING:

	Depth To	Ft.	Diameter	Thickness/ Weight	Material
From 0	9		2	40	PVC
From					
From					

7. GROUT:

	Depth To	Ft.	Material	Method
From 5	0		Bentonite/cement	Tremie
From				
From				

8. SCREEN:

	Depth To	Ft.	Diameter	Slot Size	Material
From 24	9		2 in.	.010 in.	PVC
From			in.	in.	
From			in.	in.	

9. SAND/GRAVEL PACK:

	Depth To	Ft.	Size	Material
From 24	7		#2	Sand
From				
From				

10. DRILLING LOG

From	To	Formation Description

11. REMARKS:

I DO HEREBY CERTIFY THAT THIS WELL WAS CONSTRUCTED IN ACCORDANCE WITH 15A NCAC 2C, WELL CONSTRUCTION STANDARDS, AND THAT A COPY OF THIS RECORD HAS BEEN PROVIDED TO THE WELL OWNER.

SIGNATURE OF CERTIFIED WELL CONTRACTOR — DATE 9-23-05

William C Ewing
PRINTED NAME OF PERSON CONSTRUCTING THE WELL

Submit the original to the Division of Water Quality within 30 days. Attn: Information Mgt., 1617 Mail Service Center – Raleigh, NC 27699-1617 Phone No. (919) 733-7015 ext 566.

Form GW-1b
Rev. 7/05

Oct. 11. 2005 11:41AM ARM Environmental Services No. 2834 P. 2

NON RESIDENTIAL WELL CONSTRUCTION RECORD

North Carolina Department of Environment and Natural Resources- Division of Water Quality

WELL CONTRACTOR CERTIFICATION # 3110

1. WELL CONTRACTOR:

William C Ewing
Well Contractor (Individual) Name

ARM Environmental
Well Contractor Company Name

STREET ADDRESS 1210 S. First St Ext

Columbia S.C. 29209
City or Town State Zip Code

803 - 783 - 3314
Area code- Phone number

2. WELL INFORMATION:

SITE WELL ID #(if applicable) MW-3

STATE WELL PERMIT#(if applicable)

DWQ or OTHER PERMIT #(if applicable)

WELL USE (Check Applicable Box) Monitoring ☒ Municipal/Public ☐

Industrial/Commercial ☐ Agricultural ☐ Recovery ☐ Injection ☐

Irrigation ☐ Other ☐ (list use)

DATE DRILLED 9/15/05

TIME COMPLETED 9/16/05 AM ☐ PM ☒

3. WELL LOCATION:

CITY: Charlotte COUNTY Mecklenburg

1336 South Graham Street
(Street Name, Numbers, Community, Subdivision, Lot No., Parcel, Zip Code)

TOPOGRAPHIC / LAND SETTING:

☐ Slope ☐ Valley ☒ Flat ☐ Ridge ☐ Other
(check appropriate box)

LATITUDE 35° 13' 19"

LONGITUDE 80° 51' 37"

May be in degrees, minutes, seconds or in a decimal format

Latitude/longitude source: ☐ GPS ☐ Topographic map

(location of well must be shown on a USGS topo map and attached to this form if not using GPS)

4. FACILITY - is the name of the business where the well is located.

FACILITY ID #(if applicable) 0-003806

NAME OF FACILITY Vickers Realty

STREET ADDRESS 1336 South Graham Street

Charlotte NC 28203
City or Town State Zip Code

CONTACT PERSON Mr. Vince Vickers

MAILING ADDRESS P.O. Box 30845

Charlotte NC 28230
City or Town State Zip Code

704 - 333-2392
Area code - Phone number

5. WELL DETAILS:

a. TOTAL DEPTH: 21

b. DOES WELL REPLACE EXISTING WELL? YES ☐ NO ☒

c. WATER LEVEL Below Top of Casing: _____ FT.
(Use "+" if Above Top of Casing)

d. TOP OF CASING IS 0 FT. Above Land Surface*
*Top of casing terminated at/or below land surface may require a variance in accordance with 15A NCAC 2C .0118.

e. YIELD (gpm): _____ METHOD OF TEST _____

f. DISINFECTION: Type _____ Amount _____

g. WATER ZONES (depth):

From	To	From	To
21	19		

6. CASING:

From	To	Ft.	Diameter	Thickness/ Weight	Material
6	0		2	40	PVC

7. GROUT:

From	To	Ft.	Material	Method
3	0		Bentonite/cement	Tremie

8. SCREEN:

From	To	Ft.	Diameter in.	Slot Size in.	Material
21	6		2	.010	PVC

9. SAND/GRAVEL PACK:

From	To	Ft.	Size	Material
21	4		#2	

10. DRILLING LOG

From	To	Formation Description

11. REMARKS:

I DO HEREBY CERTIFY THAT THIS WELL WAS CONSTRUCTED IN ACCORDANCE WITH 15A NCAC 2C, WELL CONSTRUCTION STANDARDS, AND THAT A COPY OF THIS RECORD HAS BEEN PROVIDED TO THE WELL OWNER.

SIGNATURE OF CERTIFIED WELL CONTRACTOR — DATE 9-23-05

William C Ewing
PRINTED NAME OF PERSON CONSTRUCTING THE WELL

Submit the original to the Division of Water Quality within 30 days. Attn: Information Mgt., 1617 Mail Service Center – Raleigh, NC 27699-1617 Phone No. (919) 733-7015 ext 568.

Form GW-1b
Rev. 7/05

NON RESIDENTIAL WELL CONSTRUCTION RECORD

North Carolina Department of Environment and Natural Resources- Division of Water Quality

WELL CONTRACTOR CERTIFICATION # 2576

1. WELL CONTRACTOR:

Lanny Teague
Well Contractor (Individual) Name

Subsurface Enviro. Investigations
Well Contractor Company Name

STREET ADDRESS 2155 Mocksville Hwy

Statesville, NC 28625
City or Town State Zip Code

(704) 876-0010
Area code- Phone number

2. WELL INFORMATION:

SITE WELL ID #(if applicable) MW-4

STATE WELL PERMIT#(if applicable)

DWQ or OTHER PERMIT #(if applicable)

WELL USE (Check Applicable Box) Monitoring ☒ Municipal/Public ☐

Industrial/Commercial ☐ Agricultural ☐ Recovery ☐ Injection ☐

Irrigation ☐ Other ☐ (list use)

DATE DRILLED 11-15-05

TIME COMPLETED AM ☐ PM ☒

3. WELL LOCATION:

CITY Charlotte COUNTY Mecklenburg

1336 South Graham St
(Street Name, Numbers, Community, Subdivision, Lot No., Parcel, Zip Code)

TOPOGRAPHIC / LAND SETTING:

☐ Slope ☐ Valley ☒ Flat ☐ Ridge ☐ Other
(check appropriate box)

LATITUDE 3 — —

LONGITUDE — — —

May be in degrees, minutes, seconds or in a decimal format

Latitude/longitude source: ☐ GPS ☐ Topographic map

(location of well must be shown on a USGS topo map and attached to this form if not using GPS)

4. FACILITY - is the name of the business where the well is located

FACILITY ID #(if applicable)

NAME OF FACILITY Vacant Warehouse

STREET ADDRESS 1336 S. Graham St.

Charlotte NC
City or Town State Zip Code

CONTACT PERSON Dave Hunter

MAILING ADDRESS 11170 Downs Rd

Pineville NC 28134
City or Town State Zip Code

(704) 369-0621
Area code - Phone number

5. WELL DETAILS:

a. TOTAL DEPTH: 22'

b. DOES WELL REPLACE EXISTING WELL? YES ☐ NO ☒

c. WATER LEVEL Below Top of Casing: FT
(Use "+" if Above Top of Casing)

d. TOP OF CASING IS 0.0 FT. Above Land Surface*
*Top of casing terminated at/or below land surface may require a variance in accordance with 15A NCAC 2C .0118

e. YIELD (gpm) n/a METHOD OF TEST n/a

f. DISINFECTION: Type n/a Amount n/a

g. WATER ZONES (depth)

From n/a To From To

From To From To

From To From To

6. CASING:

From	To	Ft	Diameter	Thickness/ Weight	Material
7	0		2	Sch 40	PVC

7. GROUT:

From	To	Ft	Material	Method
6'	3		Bentonite	tremie
3	0		Portland	"

8. SCREEN:

From	To	Ft	Diameter in.	Slot Size in.	Material
22	7			.010 in	PVC
				in.	
				in.	

9. SAND/GRAVEL PACK:

From	To	Ft	Size	Material
22	6		10/30	silica sand

10. DRILLING LOG

From	To	Formation Description
0	19	lt brown silty, sandy soil
19	22	gray brown weathered

11. REMARKS:

I DO HEREBY CERTIFY THAT THIS WELL WAS CONSTRUCTED IN ACCORDANCE WITH 15A NCAC 2C, WELL CONSTRUCTION STANDARDS, AND THAT A COPY OF THIS RECORD HAS BEEN PROVIDED TO THE WELL OWNER.

Lanny Teague 11-21-05
SIGNATURE OF CERTIFIED WELL CONTRACTOR DATE

Lanny Teague
PRINTED NAME OF PERSON CONSTRUCTING THE WELL

Submit the original to the Division of Water Quality within 30 days. Attn: Information Mgt., 1617 Mail Service Center – Raleigh, NC 27699-1617 Phone No. (919) 733-7015 ext 568.

Form GW-1
Rev. 1/05

NON RESIDENTIAL WELL CONSTRUCTION RECORD

North Carolina Department of Environment and Natural Resources- Division of Water Quality

WELL CONTRACTOR CERTIFICATION # 2576

1. WELL CONTRACTOR:

Lanny Teague
Well Contractor (Individual) Name

Subsurface Enviro. Investigations
Well Contractor Company Name

STREET ADDRESS 2155 Mocksville Hwy

Statesville, NC 28625
City or Town State Zip Code

(704) 876-0010
Area code- Phone number

2. WELL INFORMATION:

SITE WELL ID #(if applicable) MW-5

STATE WELL PERMIT#(if applicable)

DWQ or OTHER PERMIT #(if applicable)

WELL USE (Check Applicable Box) Monitoring ☒ Municipal/Public ☐

Industrial/Commercial ☐ Agricultural ☐ Recovery ☐ Injection ☐

Irrigation ☐ Other ☐ (list use)

DATE DRILLED 11-15-05

TIME COMPLETED AM ☐ PM ☒

3. WELL LOCATION:

CITY Charlotte COUNTY Mecklenburg

1336 South Graham St
(Street Name, Numbers, Community, Subdivision, Lot No., Parcel, Zip Code)

TOPOGRAPHIC / LAND SETTING:

☐ Slope ☐ Valley ☒ Flat ☐ Ridge ☐ Other
(check appropriate box)

LATITUDE 3 — —

LONGITUDE — — —

May be in degrees, minutes, seconds or in a decimal format

Latitude/longitude source: ☐ GPS ☐ Topographic map

(location of well must be shown on a USGS topo map and attached to this form if not using GPS)

4. FACILITY - is the name of the business where the well is located

FACILITY ID #(if applicable)

NAME OF FACILITY Vacant Warehouse

STREET ADDRESS 1336 S. Graham St.

Charlotte NC
City or Town State Zip Code

CONTACT PERSON Dave Hunter

MAILING ADDRESS 11170 Downs Rd.

Pineville NC 28134
City or Town State Zip Code

(704) 369-0621
Area code - Phone number

5. WELL DETAILS:

a. TOTAL DEPTH: 22'

b. DOES WELL REPLACE EXISTING WELL? YES ☐ NO ☒

c. WATER LEVEL Below Top of Casing: FT
(Use "+" if Above Top of Casing)

d. TOP OF CASING IS 0.0 FT. Above Land Surface*
*Top of casing terminated at/or below land surface may require a variance in accordance with 15A NCAC 2C .0118.

e. YIELD (gpm) n/a METHOD OF TEST n/a

f. DISINFECTION: Type n/a Amount n/a

g. WATER ZONES (depth)

From n/a To — From — To —
From — To — From — To —
From — To — From — To —

6. CASING:

From	To	Depth Ft.	Diameter	Thickness/ Weight	Material
7	0		2	Sch40	PVC

7. GROUT:

From	To	Depth Ft.	Material	Method
6'	3		Bentonite	tremie
3	0		Portland	"

8. SCREEN:

From	To	Depth Ft.	Diameter in.	Slot Size in.	Material
22	7			.010	PVC

9. SAND/GRAVEL PACK:

From	To	Depth Ft.	Size	Material
22	6		10/30	silica sand

10. DRILLING LOG

From	To	Formation Description
0	20	lt brown silty, sandy soil
20	22	gray brown weathered

11. REMARKS:

I DO HEREBY CERTIFY THAT THIS WELL WAS CONSTRUCTED IN ACCORDANCE WITH 15A NCAC 2C, WELL CONSTRUCTION STANDARDS, AND THAT A COPY OF THIS RECORD HAS BEEN PROVIDED TO THE WELL OWNER.

Lanny Teague 11-21-05
SIGNATURE OF CERTIFIED WELL CONTRACTOR DATE

Lanny Teague
PRINTED NAME OF PERSON CONSTRUCTING THE WELL

Submit the original to the Division of Water Quality within 30 days. Attn: Information Mgt., 1617 Mail Service Center – Raleigh, NC 27699-1617 Phone No. (919) 733-7015 ext 568.

Form GW-15
Rev. 7/05

NON RESIDENTIAL WELL CONSTRUCTION RECORD

North Carolina Department of Environment and Natural Resources- Division of Water Quality

WELL CONTRACTOR CERTIFICATION # 2576

1. WELL CONTRACTOR:

Lanny Teague
Well Contractor (Individual) Name

Subsurface Enviro. Investigations
Well Contractor Company Name

STREET ADDRESS 2155 Mocksville Hwy

Statesville, NC 28625
City or Town State Zip Code

(704) 876-0010
Area code- Phone number

2. WELL INFORMATION:

SITE WELL ID #(if applicable) MW-6

STATE WELL PERMIT#(if applicable)

DWQ or OTHER PERMIT #(if applicable)

WELL USE (Check Applicable Box) Monitoring ☒ Municipal/Public ☐

Industrial/Commercial ☐ Agricultural ☐ Recovery ☐ Injection ☐

Irrigation ☐ Other ☐ (list use)

DATE DRILLED 11-15-05

TIME COMPLETED AM ☐ PM ☒

3. WELL LOCATION:

CITY Charlotte COUNTY Mecklenburg

1336 South Graham St
(Street Name, Numbers, Community, Subdivision, Lot No., Parcel, Zip Code)

TOPOGRAPHIC / LAND SETTING:

☐ Slope ☐ Valley ☒ Flat ☐ Ridge ☐ Other
(check appropriate box)

LATITUDE 3 — —

LONGITUDE — — —

May be in degrees, minutes, seconds or in a decimal format

Latitude/longitude source: ☐ GPS ☐ Topographic map

(location of well must be shown on a USGS topo map and attached to this form if not using GPS)

4. FACILITY - is the name of the business where the well is located

FACILITY ID #(if applicable)

NAME OF FACILITY Vacant Warehouse

STREET ADDRESS 1336 S. Graham St.

Charlotte NC
City or Town State Zip Code

CONTACT PERSON Dave Hunter

MAILING ADDRESS 11170 Downs Rd

Pineville NC 28134
City or Town State Zip Code

704 369-0621
Area code - Phone number

5. WELL DETAILS:

a. TOTAL DEPTH: 22'

b. DOES WELL REPLACE EXISTING WELL? YES ☐ NO ☒

c. WATER LEVEL Below Top of Casing: FT
(Use "+" if Above Top of Casing)

d. TOP OF CASING IS 0.0 FT. Above Land Surface*
*Top of casing terminated at/or below land surface may require a variance in accordance with 15A NCAC 2C .0118

e. YIELD (gpm) n/a METHOD OF TEST n/a

f. DISINFECTION: Type n/a Amount n/a

g. WATER ZONES (depth)

From n/a To . From To

From To From To

From To From To

6. CASING:

From	To	Depth Ft	Diameter	Thickness/ Weight	Material
7	0		2	Sch 40	PVC

7. GROUT:

From	To	Depth Ft	Material	Method
6'	3		Bentonite	tremie
3	0		Portland	"

8. SCREEN:

From	To	Depth Ft	Diameter in	Slot Size in	Material
22	7		.010		PVC

9. SAND/GRAVEL PACK:

From	To	Depth Ft	Size	Material
22	6		10/30	silica sand

10. DRILLING LOG

From	To	Formation Description
0	20	lt brown silty, sandy soil
20	22	gray brown weathered

11. REMARKS:

I DO HEREBY CERTIFY THAT THIS WELL WAS CONSTRUCTED IN ACCORDANCE WITH 15A NCAC 2C, WELL CONSTRUCTION STANDARDS, AND THAT A COPY OF THIS RECORD HAS BEEN PROVIDED TO THE WELL OWNER

Lanny Teague 11-21-05
SIGNATURE OF CERTIFIED WELL CONTRACTOR DATE

Lanny Teague
PRINTED NAME OF PERSON CONSTRUCTING THE WELL

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Form GW-1
Rev. 7/05

NON RESIDENTIAL WELL CONSTRUCTION RECORD

North Carolina Department of Environment and Natural Resources- Division of Water Quality

WELL CONTRACTOR CERTIFICATION # 2576

1. WELL CONTRACTOR:

Lanny Teague
Well Contractor (Individual) Name

Subsurface Enviro. Investigations
Well Contractor Company Name

STREET ADDRESS 2155 Mocksville Hwy

Statesville, NC 28625
City or Town State Zip Code

(704) 876-0010
Area code- Phone number

2. WELL INFORMATION:

SITE WELL ID #(if applicable) DW-1 MW-7d

STATE WELL PERMIT#(if applicable)

DWQ or OTHER PERMIT #(if applicable)

WELL USE (Check Applicable Box) Monitoring ☒ Municipal/Public ☐

Industrial/Commercial ☐ Agricultural ☐ Recovery ☐ Injection ☐

Irrigation ☐ Other ☐ (list use)

DATE DRILLED 11-14 & 15-05

TIME COMPLETED AM ☐ PM ☒

3. WELL LOCATION:

CITY Charlotte COUNTY Mecklenburg

1336 South Graham St
(Street Name, Numbers, Community, Subdivision, Lot No., Parcel, Zip Code)

TOPOGRAPHIC / LAND SETTING:

☐ Slope ☐ Valley ☒ Flat ☐ Ridge ☐ Other
(check appropriate box)

LATITUDE 3 __ __

LONGITUDE __ __ __

May be in degrees, minutes, seconds or in a decimal format

Latitude/longitude source: ☐ GPS ☐ Topographic map

(location of well must be shown on a USGS topo map and attached to this form if not using GPS)

4. FACILITY - is the name of the business where the well is located

FACILITY ID #(if applicable)

NAME OF FACILITY Vacant Warehouse

STREET ADDRESS 1336 S. Graham St.

Charlotte NC
City or Town State Zip Code

CONTACT PERSON Dave Hunter

MAILING ADDRESS 11170 Downs Rd

Pineville NC 28134
City or Town State Zip Code

(704) 369-0621
Area code - Phone number

5. WELL DETAILS:

a. TOTAL DEPTH: 62'

b. DOES WELL REPLACE EXISTING WELL? YES ☐ NO ☒

c. WATER LEVEL Below Top of Casing: ____ FT
(Use "+" if Above Top of Casing)

d. TOP OF CASING IS 0.0 FT. Above Land Surface*
*Top of casing terminated at/or below land surface may require a variance in accordance with 15A NCAC 2C .0118.

e. YIELD (gpm): n/a METHOD OF TEST n/a

f. DISINFECTION: Type n/a Amount n/a

g. WATER ZONES (depth)

From n/a To ____ From ____ To ____
From ____ To ____ From ____ To ____
From ____ To ____ From ____ To ____

6. CASING:

	Depth		Diameter	Thickness/ Weight	Material
From 35	To 0	Ft.	6	Sch40	PVC
From 52	To 0	Ft.	2	"	"
From ____	To ____	Ft.			

7. GROUT:

	Depth		Material	Method
From 35	To 0	Ft.	Portland	tremie
From 50	To 34	Ft.	Bentonite	"
From ____	To ____	Ft.		

8. SCREEN:

	Depth		Diameter	Slot Size	Material
From 62	To 52	Ft.	2 in.	.010 in.	PVC
From ____	To ____	Ft.	in.	in.	
From ____	To ____	Ft.	in.	in.	

9. SAND/GRAVEL PACK:

	Depth		Size	Material
From 62	To 50	Ft.	10/30	silica sand
From ____	To ____	Ft.		
From ____	To ____	Ft.		

10. DRILLING LOG

From	To	Formation Description
0	13	lt brown silty, sandy soil
13	18	gray brown weathered rock
18	62	Grey bed rock

11. REMARKS:

I DO HEREBY CERTIFY THAT THIS WELL WAS CONSTRUCTED IN ACCORDANCE WITH 15A NCAC 2C, WELL CONSTRUCTION STANDARDS, AND THAT A COPY OF THIS RECORD HAS BEEN PROVIDED TO THE WELL OWNER.

Lanny Teague 11-21-05
SIGNATURE OF CERTIFIED WELL CONTRACTOR DATE

Lanny Teague
PRINTED NAME OF PERSON CONSTRUCTING THE WELL

Submit the original to the Division of Water Quality within 30 days. Attn: Information Mgt., 1617 Mail Service Center – Raleigh, NC 27699-1617 Phone No. (919) 733-7015 ext 568.

Form GW-1b
Rev. 7/05

APPENDIX D

LABORATORY ANALYTICAL RESULTS

SHEALY ENVIRONMENTAL SERVICES, INC.

Report of Analysis

ARM Environmental Services, Inc.
11164 Downs Road
Pineville, NC 28134
Attention: Tim McCorkle

Project Name: **Vickers Realty**

Lot Number: **GI17013**
Date Completed: **10/03/2005**

Alison B Edwards
Alison Bragan Edwards
Project Manager

This report shall not be reproduced, except in its entirety, without the written approval of Shealy Environmental Services, Inc.

The following non-paginated documents are considered part of this report: Chain of Custody Record and Sample Receipt Checklist.

Case Narrative
ARM Environmental Services, Inc.
Lot Number: GI17013

This Report of Analysis contains the analytical result(s) for the sample(s) listed on the Sample Summary following this Case Narrative. The sample receiving date is documented in the header information associated with each sample.

Sample receipt, sample analysis, and data review have been performed in accordance with the most current approved NELAC standards, the Shealy Environmental Services, Inc. ("Shealy") Quality Assurance Management Plan (QAMP), standard operating procedures (SOPs), and Shealy policies. Any exceptions to the NELAC standards, the QAMP, SOPs or policies are qualified on the results page or discussed below.

If you have any questions regarding this report please contact the Shealy Project Manager listed on the cover page.

SVOC
Samples -001 and -007 were diluted due to high concentrations of target and non-target compounds. The PQL was elevated as a result of this dilution.

VOC
Sample -001 was diluted due to sample matrix. The surrogate recoveries were below acceptance limits as a result of this dilution.

The blank associated with analytical batch 3115 had a detection for Naphthalene that was above the MDL, but below the PQL. All samples associated with this batch, that had detections for Naphthalene, have been flagged with a "B".

SHEALY ENVIRONMENTAL SERVICES, INC.

Sample Summary
ARM Environmental Services, Inc.
Lot Number: GI17013

Sample Number	Sample ID	Matrix	Date Sampled
001	MW-1 (5')	Solid	09/15/2005 1040
002	MW-1 (10')	Solid	09/15/2005 1055
003	MW-2 (5')	Solid	09/15/2005 1140
004	MW-2 (10')	Solid	09/15/2005 1150
005	MW-3 (5')	Solid	09/15/2005 1225
006	MW-3 (10')	Solid	09/15/2005 1310
007	MW-3 (15')	Solid	09/15/2005 1325

(7 samples)

Executive Summary
ARM Environmental Services, Inc.
Lot Number: GI17013

Sample	Sample ID	Matrix	Parameter	Method	Result	Q	Units	Page
001	MW-1 (5')	Solid	n-Butylbenzene	8260B	21000		ug/kg	8
001	MW-1 (5')	Solid	Ethylbenzene	8260B	23000		ug/kg	8
001	MW-1 (5')	Solid	Isopropylbenzene	8260B	3200		ug/kg	8
001	MW-1 (5')	Solid	Naphthalene	8260B	39000	B	ug/kg	8
001	MW-1 (5')	Solid	n-Propylbenzene	8260B	16000		ug/kg	8
001	MW-1 (5')	Solid	Toluene	8260B	14000		ug/kg	9
001	MW-1 (5')	Solid	1,2,4-Trimethylbenzene	8260B	130000		ug/kg	9
001	MW-1 (5')	Solid	1,3,5-Trimethylbenzene	8260B	45000		ug/kg	9
001	MW-1 (5')	Solid	Xylenes (total)	8260B	120000		ug/kg	9
001	MW-1 (5')	Solid	2-Methylnaphthalene	8270C	26000		ug/kg	11
001	MW-1 (5')	Solid	Naphthalene	8270C	21000		ug/kg	11
001	MW-1 (5')	Solid	Phenanthrene	8270C	690	J	ug/kg	11
001	MW-1 (5')	Solid	C9 - C18 Aliphatics	MADEP-EPH-	190		mg/kg	12
001	MW-1 (5')	Solid	C19 - C36 Aliphatics	MADEP-EPH-	42		mg/kg	12
001	MW-1 (5')	Solid	C11 - C22 Aromatics	MADEP-EPH-	170		mg/kg	12
001	MW-1 (5')	Solid	C5 - C8 Aliphatics	MADEP-VPH-	42		mg/kg	13
002	MW-1 (10')	Solid	Acetone	8260B	5.8	J	ug/kg	14
002	MW-1 (10')	Solid	Ethylbenzene	8260B	5.2		ug/kg	14
002	MW-1 (10')	Solid	Naphthalene	8260B	7.8		ug/kg	14
002	MW-1 (10')	Solid	n-Propylbenzene	8260B	2.2	J	ug/kg	14
002	MW-1 (10')	Solid	Toluene	8260B	1.6	J	ug/kg	15
002	MW-1 (10')	Solid	1,2,4-Trimethylbenzene	8260B	4.6	J	ug/kg	15
002	MW-1 (10')	Solid	1,3,5-Trimethylbenzene	8260B	1.6	J	ug/kg	15
002	MW-1 (10')	Solid	Xylenes (total)	8260B	8.2		ug/kg	15
002	MW-1 (10')	Solid	bis(2-Ethylhexyl)phthalate	8270C	40	J	ug/kg	16
002	MW-1 (10')	Solid	2-Methylnaphthalene	8270C	350	J	ug/kg	17
002	MW-1 (10')	Solid	Naphthalene	8270C	110	J	ug/kg	17
002	MW-1 (10')	Solid	Phenanthrene	8270C	85	J	ug/kg	17
002	MW-1 (10')	Solid	C5 - C8 Aliphatics	MADEP-VPH-	2.5	J	mg/kg	19
002	MW-1 (10')	Solid	C9 - C12 Aliphatics	MADEP-VPH-	0.91	J	mg/kg	19
002	MW-1 (10')	Solid	C9 - C10 Aromatics	MADEP-VPH-	1.2	J	mg/kg	19
003	MW-2 (5')	Solid	Acetone	8260B	250	J	ug/kg	20
003	MW-2 (5')	Solid	sec-Butylbenzene	8260B	58	J	ug/kg	20
003	MW-2 (5')	Solid	Diisopropyl ether (IPE)	8260B	20	J	ug/kg	20
003	MW-2 (5')	Solid	Ethylbenzene	8260B	90	J	ug/kg	20
003	MW-2 (5')	Solid	Isopropylbenzene	8260B	42	J	ug/kg	20
003	MW-2 (5')	Solid	Naphthalene	8260B	990	B	ug/kg	20
003	MW-2 (5')	Solid	n-Propylbenzene	8260B	170	J	ug/kg	20
003	MW-2 (5')	Solid	1,2,4-Trimethylbenzene	8260B	1400		ug/kg	21
003	MW-2 (5')	Solid	1,3,5-Trimethylbenzene	8260B	470		ug/kg	21
003	MW-2 (5')	Solid	Xylenes (total)	8260B	190	J	ug/kg	21
003	MW-2 (5')	Solid	Di-n-butyl phthalate	8270C	160	J	ug/kg	22
003	MW-2 (5')	Solid	2-Methylnaphthalene	8270C	470		ug/kg	23
003	MW-2 (5')	Solid	Naphthalene	8270C	230	J	ug/kg	23

Executive Summary (Continued)

Lot Number: GI17013

Sample	Sample ID	Matrix	Parameter	Method	Result	Q	Units	Page
003	MW-2 (5')	Solid	C9 - C18 Aliphatics	MADEP-EPH-	12		mg/kg	24
003	MW-2 (5')	Solid	C11 - C22 Aromatics	MADEP-EPH-	5.3	J	mg/kg	24
003	MW-2 (5')	Solid	C5 - C8 Aliphatics	MADEP-VPH-	18		mg/kg	25
003	MW-2 (5')	Solid	C9 - C12 Aliphatics	MADEP-VPH-	190		mg/kg	25
003	MW-2 (5')	Solid	C9 - C10 Aromatics	MADEP-VPH-	69		mg/kg	25
004	MW-2 (10')	Solid	Acetone	8260B	450	J	ug/kg	26
004	MW-2 (10')	Solid	n-Butylbenzene	8260B	2200		ug/kg	26
004	MW-2 (10')	Solid	sec-Butylbenzene	8260B	1400		ug/kg	26
004	MW-2 (10')	Solid	tert-Butylbenzene	8260B	130	J	ug/kg	26
004	MW-2 (10')	Solid	Diisopropyl ether (IPE)	8260B	410		ug/kg	26
004	MW-2 (10')	Solid	Ethylbenzene	8260B	340		ug/kg	26
004	MW-2 (10')	Solid	Isopropylbenzene	8260B	1200		ug/kg	26
004	MW-2 (10')	Solid	p-Isopropyltoluene	8260B	820		ug/kg	26
004	MW-2 (10')	Solid	Naphthalene	8260B	4700	B	ug/kg	26
004	MW-2 (10')	Solid	n-Propylbenzene	8260B	2000		ug/kg	26
004	MW-2 (10')	Solid	1,2,4-Trimethylbenzene	8260B	310		ug/kg	27
004	MW-2 (10')	Solid	1,3,5-Trimethylbenzene	8260B	130	J	ug/kg	27
004	MW-2 (10')	Solid	bis(2-Ethylhexyl)phthalate	8270C	98	J	ug/kg	28
004	MW-2 (10')	Solid	2-Methylnaphthalene	8270C	6300		ug/kg	29
004	MW-2 (10')	Solid	Naphthalene	8270C	1100		ug/kg	29
004	MW-2 (10')	Solid	Phenanthrene	8270C	3400		ug/kg	29
004	MW-2 (10')	Solid	Pyrene	8270C	320	J	ug/kg	29
004	MW-2 (10')	Solid	C9 - C18 Aliphatics	MADEP-EPH-	910		mg/kg	30
004	MW-2 (10')	Solid	C19 - C36 Aliphatics	MADEP-EPH-	190		mg/kg	30
004	MW-2 (10')	Solid	C11 - C22 Aromatics	MADEP-EPH-	420		mg/kg	30
004	MW-2 (10')	Solid	C5 - C8 Aliphatics	MADEP-VPH-	160		mg/kg	31
004	MW-2 (10')	Solid	C9 - C12 Aliphatics	MADEP-VPH-	390		mg/kg	31
004	MW-2 (10')	Solid	C9 - C10 Aromatics	MADEP-VPH-	160		mg/kg	31
005	MW-3 (5')	Solid	Acetone	8260B	37		ug/kg	32
005	MW-3 (5')	Solid	2-Butanone (MEK)	8260B	5.9	J	ug/kg	32
005	MW-3 (5')	Solid	n-Butylbenzene	8260B	19		ug/kg	32
005	MW-3 (5')	Solid	sec-Butylbenzene	8260B	27		ug/kg	32
005	MW-3 (5')	Solid	tert-Butylbenzene	8260B	4.6	J	ug/kg	32
005	MW-3 (5')	Solid	Isopropylbenzene	8260B	5.2		ug/kg	32
005	MW-3 (5')	Solid	Naphthalene	8260B	27		ug/kg	32
005	MW-3 (5')	Solid	n-Propylbenzene	8260B	4.3	J	ug/kg	32
005	MW-3 (5')	Solid	1,2,4-Trimethylbenzene	8260B	1.5	J	ug/kg	33
005	MW-3 (5')	Solid	Acenaphthene	8270C	440		ug/kg	34
005	MW-3 (5')	Solid	Anthracene	8270C	630		ug/kg	34
005	MW-3 (5')	Solid	Benzo(a)anthracene	8270C	1900		ug/kg	34
005	MW-3 (5')	Solid	Benzo(a)pyrene	8270C	1500		ug/kg	34
005	MW-3 (5')	Solid	Benzo(b)fluoranthene	8270C	2400		ug/kg	34
005	MW-3 (5')	Solid	Benzo(g,h,i)perylene	8270C	860		ug/kg	34
005	MW-3 (5')	Solid	Benzo(k)fluoranthene	8270C	910		ug/kg	34
005	MW-3 (5')	Solid	Chrysene	8270C	2100		ug/kg	34
005	MW-3 (5')	Solid	Di-n-butyl phthalate	8270C	70	J	ug/kg	34
005	MW-3 (5')	Solid	Dibenzo(a,h)anthracene	8270C	310	J	ug/kg	34
005	MW-3 (5')	Solid	Dibenzofuran	8270C	260	J	ug/kg	34

Executive Summary (Continued)

Lot Number: GI17013

Sample	Sample ID	Matrix	Parameter	Method	Result	Q	Units	Page
005	MW-3 (5')	Solid	Fluoranthene	8270C	4600		ug/kg	34
005	MW-3 (5')	Solid	Fluorene	8270C	380	J	ug/kg	34
005	MW-3 (5')	Solid	Indeno(1,2,3-c,d)pyrene	8270C	800		ug/kg	34
005	MW-3 (5')	Solid	2-Methylnaphthalene	8270C	110	J	ug/kg	35
005	MW-3 (5')	Solid	Naphthalene	8270C	230	J	ug/kg	35
005	MW-3 (5')	Solid	Phenanthrene	8270C	3700		ug/kg	35
005	MW-3 (5')	Solid	Pyrene	8270C	3700		ug/kg	35
005	MW-3 (5')	Solid	C9 - C18 Aliphatics	MADEP-EPH-	100		mg/kg	36
005	MW-3 (5')	Solid	C19 - C36 Aliphatics	MADEP-EPH-	11	J	mg/kg	36
005	MW-3 (5')	Solid	C11 - C22 Aromatics	MADEP-EPH-	68		mg/kg	36
005	MW-3 (5')	Solid	C5 - C8 Aliphatics	MADEP-VPH-	5.3	J	mg/kg	37
005	MW-3 (5')	Solid	C9 - C12 Aliphatics	MADEP-VPH-	14		mg/kg	37
005	MW-3 (5')	Solid	C9 - C10 Aromatics	MADEP-VPH-	10		mg/kg	37
006	MW-3 (10')	Solid	Acetone	8260B	59		ug/kg	38
006	MW-3 (10')	Solid	n-Butylbenzene	8260B	180		ug/kg	38
006	MW-3 (10')	Solid	sec-Butylbenzene	8260B	200		ug/kg	38
006	MW-3 (10')	Solid	tert-Butylbenzene	8260B	29		ug/kg	38
006	MW-3 (10')	Solid	Diisopropyl ether (IPE)	8260B	1.8	J	ug/kg	38
006	MW-3 (10')	Solid	Ethylbenzene	8260B	6.5		ug/kg	38
006	MW-3 (10')	Solid	Isopropylbenzene	8260B	58		ug/kg	38
006	MW-3 (10')	Solid	Naphthalene	8260B	230		ug/kg	38
006	MW-3 (10')	Solid	n-Propylbenzene	8260B	58		ug/kg	38
006	MW-3 (10')	Solid	1,2,4-Trimethylbenzene	8260B	3.3	J	ug/kg	39
006	MW-3 (10')	Solid	Xylenes (total)	8260B	5.5		ug/kg	39
006	MW-3 (10')	Solid	Benzo(a)anthracene	8270C	570		ug/kg	40
006	MW-3 (10')	Solid	Benzo(a)pyrene	8270C	470		ug/kg	40
006	MW-3 (10')	Solid	Benzo(b)fluoranthene	8270C	700		ug/kg	40
006	MW-3 (10')	Solid	Benzo(g,h,i)perylene	8270C	300	J	ug/kg	40
006	MW-3 (10')	Solid	Benzo(k)fluoranthene	8270C	290	J	ug/kg	40
006	MW-3 (10')	Solid	Chrysene	8270C	600		ug/kg	40
006	MW-3 (10')	Solid	Fluoranthene	8270C	1200		ug/kg	40
006	MW-3 (10')	Solid	Fluorene	8270C	1100		ug/kg	40
006	MW-3 (10')	Solid	Indeno(1,2,3-c,d)pyrene	8270C	260	J	ug/kg	40
006	MW-3 (10')	Solid	2-Methylnaphthalene	8270C	5900		ug/kg	41
006	MW-3 (10')	Solid	Naphthalene	8270C	850		ug/kg	41
006	MW-3 (10')	Solid	Phenanthrene	8270C	3100		ug/kg	41
006	MW-3 (10')	Solid	Pyrene	8270C	1200		ug/kg	41
006	MW-3 (10')	Solid	C9 - C18 Aliphatics	MADEP-EPH-	690		mg/kg	42
006	MW-3 (10')	Solid	C19 - C36 Aliphatics	MADEP-EPH-	92		mg/kg	42
006	MW-3 (10')	Solid	C11 - C22 Aromatics	MADEP-EPH-	580		mg/kg	42
006	MW-3 (10')	Solid	C5 - C8 Aliphatics	MADEP-VPH-	9.2		mg/kg	43
006	MW-3 (10')	Solid	C9 - C12 Aliphatics	MADEP-VPH-	26		mg/kg	43
006	MW-3 (10')	Solid	C9 - C10 Aromatics	MADEP-VPH-	28		mg/kg	43
007	MW-3 (15')	Solid	n-Butylbenzene	8260B	310		ug/kg	44
007	MW-3 (15')	Solid	sec-Butylbenzene	8260B	170	J	ug/kg	44
007	MW-3 (15')	Solid	Naphthalene	8260B	720	B	ug/kg	44
007	MW-3 (15')	Solid	1,2,4-Trimethylbenzene	8260B	620		ug/kg	45
007	MW-3 (15')	Solid	1,3,5-Trimethylbenzene	8260B	180	J	ug/kg	45

Executive Summary (Continued)

Lot Number: GI17013

Sample	Sample ID	Matrix	Parameter	Method	Result	Q	Units	Page
007	MW-3 (15')	Solid	Xylenes (total)	8260B	180	J	ug/kg	45
007	MW-3 (15')	Solid	Anthracene	8270C	1100	J	ug/kg	46
007	MW-3 (15')	Solid	Benzo(a)anthracene	8270C	4900		ug/kg	46
007	MW-3 (15')	Solid	Benzo(a)pyrene	8270C	4000		ug/kg	46
007	MW-3 (15')	Solid	Benzo(b)fluoranthene	8270C	5800		ug/kg	46
007	MW-3 (15')	Solid	Benzo(g,h,i)perylene	8270C	2600		ug/kg	46
007	MW-3 (15')	Solid	Benzo(k)fluoranthene	8270C	2600		ug/kg	46
007	MW-3 (15')	Solid	Chrysene	8270C	5400		ug/kg	46
007	MW-3 (15')	Solid	Fluoranthene	8270C	10000		ug/kg	46
007	MW-3 (15')	Solid	Fluorene	8270C	1200	J	ug/kg	46
007	MW-3 (15')	Solid	Indeno(1,2,3-c,d)pyrene	8270C	2400		ug/kg	46
007	MW-3 (15')	Solid	2-Methylnaphthalene	8270C	4600		ug/kg	47
007	MW-3 (15')	Solid	Naphthalene	8270C	1400	J	ug/kg	47
007	MW-3 (15')	Solid	Phenanthrene	8270C	7500		ug/kg	47
007	MW-3 (15')	Solid	Pyrene	8270C	8300		ug/kg	47
007	MW-3 (15')	Solid	C9 - C18 Aliphatics	MADEP-EPH-	120		mg/kg	48
007	MW-3 (15')	Solid	C19 - C36 Aliphatics	MADEP-EPH-	18		mg/kg	48
007	MW-3 (15')	Solid	C11 - C22 Aromatics	MADEP-EPH-	140		mg/kg	48
007	MW-3 (15')	Solid	C5 - C8 Aliphatics	MADEP-VPH-	5.6		mg/kg	49
007	MW-3 (15')	Solid	C9 - C12 Aliphatics	MADEP-VPH-	15		mg/kg	49
007	MW-3 (15')	Solid	C9 - C10 Aromatics	MADEP-VPH-	14		mg/kg	49

(161 detections)

Volatile Organic Compounds by GC/MS

Client: **ARM Environmental Services, Inc.**
Laboratory ID: **GI17013-001**
Description: **MW-1 (5')**
Matrix: **Solid**
Date Sampled: **09/15/2005 1040**
% Solids: **85.7** **09/19/2005 1727**
Date Received: **09/16/2005**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5035	8260B	500	09/27/2005 1454	RED		31115

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Acetone	67-64-1	8260B	ND		9800	880	ug/kg	1
Benzene	71-43-2	8260B	ND		2400	540	ug/kg	1
Bromobenzene	108-86-1	8260B	ND		2400	340	ug/kg	1
Bromochloromethane	74-97-5	8260B	ND		2400	490	ug/kg	1
Bromodichloromethane	75-27-4	8260B	ND		2400	540	ug/kg	1
Bromoform	75-25-2	8260B	ND		2400	340	ug/kg	1
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		2400	880	ug/kg	1
2-Butanone (MEK)	78-93-3	8260B	ND		4900	1200	ug/kg	1
n-Butylbenzene	**104-51-8**	**8260B**	**21000**		**2400**	**490**	**ug/kg**	**1**
sec-Butylbenzene	135-98-8	8260B	ND		2400	490	ug/kg	1
tert-Butylbenzene	98-06-6	8260B	ND		2400	490	ug/kg	1
Carbon tetrachloride	56-23-5	8260B	ND		2400	880	ug/kg	1
Chlorobenzene	108-90-7	8260B	ND		2400	730	ug/kg	1
Chloroethane	75-00-3	8260B	ND		2400	640	ug/kg	1
Chloroform	67-66-3	8260B	ND		2400	400	ug/kg	1
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		2400	490	ug/kg	1
2-Chlorotoluene	95-49-8	8260B	ND		2400	1300	ug/kg	1
4-Chlorotoluene	106-43-4	8260B	ND		2400	930	ug/kg	1
Dibromochloromethane	124-48-1	8260B	ND		2400	310	ug/kg	1
1,2-Dibromoethane (EDB)	106-93-4	8260B	ND		2400	420	ug/kg	1
1,2-Dichlorobenzene	95-50-1	8260B	ND		2400	450	ug/kg	1
1,3-Dichlorobenzene	541-73-1	8260B	ND		2400	640	ug/kg	1
1,4-Dichlorobenzene	106-46-7	8260B	ND		2400	730	ug/kg	1
Dichlorodifluoromethane	75-71-8	8260B	ND		2400	780	ug/kg	1
1,1-Dichloroethane	75-34-3	8260B	ND		2400	360	ug/kg	1
1,2-Dichloroethane	107-06-2	8260B	ND		2400	490	ug/kg	1
1,1-Dichloroethene	75-35-4	8260B	ND		2400	830	ug/kg	1
cis-1,2-Dichloroethene	156-59-2	8260B	ND		2400	370	ug/kg	1
trans-1,2-Dichloroethene	156-60-5	8260B	ND		2400	730	ug/kg	1
1,2-Dichloropropane	78-87-5	8260B	ND		2400	440	ug/kg	1
1,3-Dichloropropane	142-28-9	8260B	ND		2400	490	ug/kg	1
2,2-Dichloropropane	594-20-7	8260B	ND		2400	540	ug/kg	1
1,1-Dichloropropene	563-58-6	8260B	ND		2400	730	ug/kg	1
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		2400	330	ug/kg	1
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		2400	400	ug/kg	1
Diisopropyl ether (IPE)	108-20-3	8260B	ND		2400	150	ug/kg	1
Ethylbenzene	**100-41-4**	**8260B**	**23000**		**2400**	**540**	**ug/kg**	**1**
2-Hexanone	591-78-6	8260B	ND		4900	640	ug/kg	1
Isopropylbenzene	**98-82-8**	**8260B**	**3200**		**2400**	**390**	**ug/kg**	**1**
p-Isopropyltoluene	99-87-6	8260B	ND		2400	680	ug/kg	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		2400	200	ug/kg	1
4-Methyl-2-pentanone	108-10-1	8260B	ND		4900	730	ug/kg	1
Methylene chloride	75-09-2	8260B	ND		2400	1300	ug/kg	1
Naphthalene	**91-20-3**	**8260B**	**39000**	**B**	**2400**	**590**	**ug/kg**	**1**
n-Propylbenzene	**103-65-1**	**8260B**	**16000**		**2400**	**490**	**ug/kg**	**1**
Styrene	100-42-5	8260B	ND		2400	540	ug/kg	1

Footnote(s): *NC Cert #387, NELAC Cert #E87358

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
B = Detected in the method blank
J = Estimated result less than the PQL
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Volatile Organic Compounds by GC/MS

Client: **ARM Environmental Services, Inc.**
Laboratory ID: **GI17013-001**
Description: **MW-1 (5')**
Matrix: **Solid**
Date Sampled: **09/15/2005 1040**
% Solids: **85.7** **09/19/2005 1727**
Date Received: **09/16/2005**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5035	8260B	500	09/27/2005 1454	RED		31115

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		2400	230	ug/kg	1
Tetrachloroethene	127-18-4	8260B	ND		2400	1100	ug/kg	1
Toluene	**108-88-3**	**8260B**	**14000**		**2400**	**680**	**ug/kg**	**1**
1,2,3-Trichlorobenzene	87-61-6	8260B	ND		2400	440	ug/kg	1
1,2,4-Trichlorobenzene	120-82-1	8260B	ND		2400	490	ug/kg	1
1,1,1-Trichloroethane	71-55-6	8260B	ND		2400	420	ug/kg	1
1,1,2-Trichloroethane	79-00-5	8260B	ND		2400	390	ug/kg	1
Trichloroethene	79-01-6	8260B	ND		2400	930	ug/kg	1
Trichlorofluoromethane	75-69-4	8260B	ND		2400	730	ug/kg	1
1,2,3-Trichloropropane	96-18-4	8260B	ND		2400	420	ug/kg	1
1,2,4-Trimethylbenzene	**95-63-6**	**8260B**	**130000**		**2400**	**680**	**ug/kg**	**1**
1,3,5-Trimethylbenzene	**108-67-8**	**8260B**	**45000**		**2400**	**730**	**ug/kg**	**1**
Vinyl acetate	108-05-4	8260B	ND		2400	440	ug/kg	1
Vinyl chloride	75-01-4	8260B	ND		2400	420	ug/kg	1
Xylenes (total)	**1330-20-7**	**8260B**	**120000**		**2400**	**1400**	**ug/kg**	**1**

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4	N	13	53-142
Bromofluorobenzene	N	16	47-138
Toluene-d8	N	14	68-124

Footnote(s): *NC Cert #387, NELAC Cert #E87358

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
B = Detected in the method blank
J = Estimated result less than the PQL
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Semivolatile Organic Compounds by GC/MS

Client: **ARM Environmental Services, Inc.**
Laboratory ID: **GI17013-001**
Description: **MW-1 (5')**
Matrix: **Solid**
Date Sampled: **09/15/2005 1040**
% Solids: **85.7** **09/19/2005 1727**
Date Received: **09/16/2005**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3550B	8270C	5	09/21/2005 1352	DC	09/19/2005 1623	30815

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Acenaphthene	83-32-9	8270C	ND		1900	59	ug/kg	1
Acenaphthylene	208-96-8	8270C	ND		1900	76	ug/kg	1
Anthracene	120-12-7	8270C	ND		1900	85	ug/kg	1
Benzo(a)anthracene	56-55-3	8270C	ND		1900	64	ug/kg	1
Benzo(a)pyrene	50-32-8	8270C	ND		1900	140	ug/kg	1
Benzo(b)fluoranthene	205-99-2	8270C	ND		1900	130	ug/kg	1
Benzo(g,h,i)perylene	191-24-2	8270C	ND		1900	130	ug/kg	1
Benzo(k)fluoranthene	207-08-9	8270C	ND		1900	160	ug/kg	1
Benzoic acid	65-85-0	8270C	ND		48000	160	ug/kg	1
Benzyl alcohol	100-51-6	8270C	ND		1900	990	ug/kg	1
4-Bromophenyl phenyl ether	101-55-3	8270C	ND		1900	82	ug/kg	1
Butyl benzyl phthalate	85-68-7	8270C	ND		1900	62	ug/kg	1
4-Chloro-3-methyl phenol	59-50-7	8270C	ND		1900	110	ug/kg	1
4-Chloroaniline	106-47-8	8270C	ND		1900	100	ug/kg	1
bis(2-Chloroethoxy)methane	111-91-1	8270C	ND		1900	85	ug/kg	1
bis(2-Chloroethyl)ether	111-44-4	8270C	ND		1900	81	ug/kg	1
bis(2-Chloroisopropyl)ether	108-60-1	8270C	ND		1900	74	ug/kg	1
2-Chloronaphthalene	91-58-7	8270C	ND		1900	92	ug/kg	1
2-Chlorophenol	95-57-8	8270C	ND		1900	81	ug/kg	1
4-Chlorophenyl phenyl ether	7005-72-3	8270C	ND		1900	76	ug/kg	1
Chrysene	218-01-9	8270C	ND		1900	60	ug/kg	1
Di-n-butyl phthalate	84-74-2	8270C	ND		1900	260	ug/kg	1
Di-n-octylphthalate	117-84-0	8270C	ND		1900	230	ug/kg	1
Dibenzo(a,h)anthracene	53-70-3	8270C	ND		1900	130	ug/kg	1
Dibenzofuran	132-64-9	8270C	ND		1900	76	ug/kg	1
1,2-Dichlorobenzene	95-50-1	8270C	ND		1900	66	ug/kg	1
1,4-Dichlorobenzene	106-46-7	8270C	ND		1900	84	ug/kg	1
3,3'-Dichlorobenzidine	91-94-1	8270C	ND		4800	330	ug/kg	1
2,4-Dichlorophenol	120-83-2	8270C	ND		1900	78	ug/kg	1
Diethylphthalate	84-66-2	8270C	ND		1900	74	ug/kg	1
Dimethyl phthalate	131-11-3	8270C	ND		1900	55	ug/kg	1
2,4-Dimethylphenol	105-67-9	8270C	ND		1900	100	ug/kg	1
4,6-Dinitro-2-methylphenol	534-52-1	8270C	ND		4800	220	ug/kg	1
2,4-Dinitrophenol	51-28-5	8270C	ND		4800	38	ug/kg	1
2,4-Dinitrotoluene	121-14-2	8270C	ND		1900	140	ug/kg	1
2,6-Dinitrotoluene	606-20-2	8270C	ND		1900	170	ug/kg	1
1,2-Diphenylhydrazine(as azobenzene)	103-33-3	8270C	ND		1900	55	ug/kg	1
bis(2-Ethylhexyl)phthalate	117-81-7	8270C	ND		1900	120	ug/kg	1
Fluoranthene	206-44-0	8270C	ND		1900	61	ug/kg	1
Fluorene	86-73-7	8270C	ND		1900	74	ug/kg	1
Hexachlorobenzene	118-74-1	8270C	ND		1900	78	ug/kg	1
Hexachlorobutadiene	87-68-3	8270C	ND		1900	79	ug/kg	1
Hexachlorocyclopentadiene	77-47-4	8270C	ND		4800	370	ug/kg	1
Hexachloroethane	67-72-1	8270C	ND		1900	95	ug/kg	1
Indeno(1,2,3-c,d)pyrene	193-39-5	8270C	ND		1900	170	ug/kg	1
Isophorone	78-59-1	8270C	ND		1900	91	ug/kg	1

Footnote(s): *NC Cert #387, NELAC Cert #E87358

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
B = Detected in the method blank
J = Estimated result less than the PQL
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Semivolatile Organic Compounds by GC/MS

Client: **ARM Environmental Services, Inc.**
Laboratory ID: **GI17013-001**
Description: **MW-1 (5')**
Matrix: **Solid**
Date Sampled: **09/15/2005 1040**
% Solids: **85.7** **09/19/2005 1727**
Date Received: **09/16/2005**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3550B	8270C	5	09/21/2005 1352	DC	09/19/2005 1623	30815

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
2-Methylnaphthalene	**91-57-6**	**8270C**	**26000**		**1900**	**69**	**ug/kg**	**1**
2-Methylphenol	95-48-7	8270C	ND		1900	110	ug/kg	1
3 & 4-Methylphenol	106-44-5	8270C	ND		3900	180	ug/kg	1
N-Nitrosodi-n-propylamine	621-64-7	8270C	ND		1900	98	ug/kg	1
N-Nitrosodiphenylamine/Diphenylamine	86-30-6	8270C	ND		1900	65	ug/kg	1
Naphthalene	**91-20-3**	**8270C**	**21000**		**1900**	**81**	**ug/kg**	**1**
Nitrobenzene	98-95-3	8270C	ND		1900	89	ug/kg	1
2-Nitrophenol	88-75-5	8270C	ND		1900	210	ug/kg	1
4-Nitrophenol	100-02-7	8270C	ND		4800	830	ug/kg	1
Pentachlorophenol	87-86-5	8270C	ND		4800	200	ug/kg	1
Phenanthrene	**85-01-8**	**8270C**	**690**	**J**	**1900**	**78**	**ug/kg**	**1**
Phenol	108-95-2	8270C	ND		1900	92	ug/kg	1
Pyrene	129-00-0	8270C	ND		1900	83	ug/kg	1
1,2,4-Trichlorobenzene	120-82-1	8270C	ND		1900	88	ug/kg	1
2,4,6-Trichlorophenol	88-06-2	8270C	ND		1900	110	ug/kg	1
1,3-Dichlorobenzene	541-73-1	8270C	ND		1900	74	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
2,4,6-Tribromophenol		88	30-130
2-Fluorobiphenyl		81	30-130
2-Fluorophenol		81	30-130
Nitrobenzene-d5		92	30-130
Phenol-d5		86	30-130
Terphenyl-d14		96	30-130

Footnote(s): *NC Cert #387, NELAC Cert #E87358

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
B = Detected in the method blank
J = Estimated result less than the PQL
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

MADEP EPH

Client: **ARM Environmental Services, Inc.**
Laboratory ID: **GI17013-001**
Description: **MW-1 (5')**
Matrix: **Solid**
Date Sampled: **09/15/2005 1040**
% Solids: **85.7** **09/19/2005 1727**
Date Received: **09/16/2005**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1		MADEP-EPH-04-1	1	09/25/2005 1932	*		

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
C9 - C18 Aliphatics		**MADEP-EPH-04-1**	**190**		**12**	**3.5**	**mg/kg**	**1**
C19 - C36 Aliphatics		**MADEP-EPH-04-1**	**42**		**12**	**3.7**	**mg/kg**	**1**
C11 - C22 Aromatics		**MADEP-EPH-04-1**	**170**		**12**	**4.1**	**mg/kg**	**1**

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
2-Bromonaphthalene		79	40-140
2-Fluorobiphenyl		71	40-140
C - 35		61	40-140
o - Terphenyl		116	40-140

Footnote(s): *NC Cert #387, NELAC Cert #E87358

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
B = Detected in the method blank
J = Estimated result less than the PQL
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

MADEP VPH

Client: **ARM Environmental Services, Inc.**	Laboratory ID: **GI17013-001**
Description: **MW-1 (5')**	Matrix: **Solid**
Date Sampled: **09/15/2005 1040**	% Solids: **85.7** **09/19/2005 1727**
Date Received: **09/16/2005**	

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1		MADEP-VPH-04-1.1	1	09/25/2005 2038	*		

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
C5 - C8 Aliphatics		**MADEP-VPH-04-1.1**	**42**		**5.8**	**0.12**	**mg/kg**	**1**
C9 - C12 Aliphatics		MADEP-VPH-04-1.1	ND		5.8	0.24	mg/kg	1
C9 - C10 Aromatics		MADEP-VPH-04-1.1	ND		5.8	0.014	mg/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
2,5-Dibromotoluene (FID)		76	70-130
2,5-Dibromotoluene (PID)		82	60-140

Footnote(s): *NC Cert #387, NELAC Cert #E87358

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
B = Detected in the method blank
J = Estimated result less than the PQL
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Volatile Organic Compounds by GC/MS

Client: **ARM Environmental Services, Inc.**
Laboratory ID: **GI17013-002**
Description: **MW-1 (10')**
Matrix: **Solid**
Date Sampled: **09/15/2005 1055**
% Solids: **90.5** **09/19/2005 1727**
Date Received: **09/16/2005**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5035	8260B	1	09/26/2005 1502	RED		31082

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Acetone	**67-64-1**	**8260B**	**5.8**	**J**	**20**	**1.8**	**ug/kg**	**1**
Benzene	71-43-2	8260B	ND		4.9	1.1	ug/kg	1
Bromobenzene	108-86-1	8260B	ND		4.9	0.69	ug/kg	1
Bromochloromethane	74-97-5	8260B	ND		4.9	0.99	ug/kg	1
Bromodichloromethane	75-27-4	8260B	ND		4.9	1.1	ug/kg	1
Bromoform	75-25-2	8260B	ND		4.9	0.69	ug/kg	1
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		4.9	1.8	ug/kg	1
2-Butanone (MEK)	78-93-3	8260B	ND		9.9	2.4	ug/kg	1
n-Butylbenzene	104-51-8	8260B	ND		4.9	0.99	ug/kg	1
sec-Butylbenzene	135-98-8	8260B	ND		4.9	0.99	ug/kg	1
tert-Butylbenzene	98-06-6	8260B	ND		4.9	0.99	ug/kg	1
Carbon tetrachloride	56-23-5	8260B	ND		4.9	1.8	ug/kg	1
Chlorobenzene	108-90-7	8260B	ND		4.9	1.5	ug/kg	1
Chloroethane	75-00-3	8260B	ND		4.9	1.3	ug/kg	1
Chloroform	67-66-3	8260B	ND		4.9	0.82	ug/kg	1
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		4.9	0.99	ug/kg	1
2-Chlorotoluene	95-49-8	8260B	ND		4.9	2.7	ug/kg	1
4-Chlorotoluene	106-43-4	8260B	ND		4.9	1.9	ug/kg	1
Dibromochloromethane	124-48-1	8260B	ND		4.9	0.62	ug/kg	1
1,2-Dibromoethane (EDB)	106-93-4	8260B	ND		4.9	0.84	ug/kg	1
1,2-Dichlorobenzene	95-50-1	8260B	ND		4.9	0.92	ug/kg	1
1,3-Dichlorobenzene	541-73-1	8260B	ND		4.9	1.3	ug/kg	1
1,4-Dichlorobenzene	106-46-7	8260B	ND		4.9	1.5	ug/kg	1
Dichlorodifluoromethane	75-71-8	8260B	ND		4.9	1.6	ug/kg	1
1,1-Dichloroethane	75-34-3	8260B	ND		4.9	0.72	ug/kg	1
1,2-Dichloroethane	107-06-2	8260B	ND		4.9	0.99	ug/kg	1
1,1-Dichloroethene	75-35-4	8260B	ND		4.9	1.7	ug/kg	1
cis-1,2-Dichloroethene	156-59-2	8260B	ND		4.9	0.75	ug/kg	1
trans-1,2-Dichloroethene	156-60-5	8260B	ND		4.9	1.5	ug/kg	1
1,2-Dichloropropane	78-87-5	8260B	ND		4.9	0.90	ug/kg	1
1,3-Dichloropropane	142-28-9	8260B	ND		4.9	0.99	ug/kg	1
2,2-Dichloropropane	594-20-7	8260B	ND		4.9	1.1	ug/kg	1
1,1-Dichloropropene	563-58-6	8260B	ND		4.9	1.5	ug/kg	1
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		4.9	0.67	ug/kg	1
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		4.9	0.81	ug/kg	1
Diisopropyl ether (IPE)	108-20-3	8260B	ND		4.9	0.31	ug/kg	1
Ethylbenzene	**100-41-4**	**8260B**	**5.2**		**4.9**	**1.1**	**ug/kg**	**1**
2-Hexanone	591-78-6	8260B	ND		9.9	1.3	ug/kg	1
Isopropylbenzene	98-82-8	8260B	ND		4.9	0.79	ug/kg	1
p-Isopropyltoluene	99-87-6	8260B	ND		4.9	1.4	ug/kg	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		4.9	0.40	ug/kg	1
4-Methyl-2-pentanone	108-10-1	8260B	ND		9.9	1.5	ug/kg	1
Methylene chloride	75-09-2	8260B	ND		4.9	2.6	ug/kg	1
Naphthalene	**91-20-3**	**8260B**	**7.8**		**4.9**	**1.2**	**ug/kg**	**1**
n-Propylbenzene	**103-65-1**	**8260B**	**2.2**	**J**	**4.9**	**0.99**	**ug/kg**	**1**
Styrene	100-42-5	8260B	ND		4.9	1.1	ug/kg	1

Footnote(s): *NC Cert #387, NELAC Cert #E87358

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ND = Not detected at or above the PQL
B = Detected in the method blank
J = Estimated result less than the PQL
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Volatile Organic Compounds by GC/MS

Client: **ARM Environmental Services, Inc.**
Description: **MW-1 (10')**
Date Sampled: **09/15/2005 1055**
Date Received: **09/16/2005**

Laboratory ID: **GI17013-002**
Matrix: **Solid**
% Solids: **90.5** **09/19/2005 1727**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5035	8260B	1	09/26/2005 1502	RED		31082

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		4.9	0.46	ug/kg	1
Tetrachloroethene	127-18-4	8260B	ND		4.9	2.3	ug/kg	1
Toluene	**108-88-3**	**8260B**	**1.6**	**J**	**4.9**	**1.4**	**ug/kg**	**1**
1,2,3-Trichlorobenzene	87-61-6	8260B	ND		4.9	0.89	ug/kg	1
1,2,4-Trichlorobenzene	120-82-1	8260B	ND		4.9	0.99	ug/kg	1
1,1,1-Trichloroethane	71-55-6	8260B	ND		4.9	0.84	ug/kg	1
1,1,2-Trichloroethane	79-00-5	8260B	ND		4.9	0.78	ug/kg	1
Trichloroethene	79-01-6	8260B	ND		4.9	1.9	ug/kg	1
Trichlorofluoromethane	75-69-4	8260B	ND		4.9	1.5	ug/kg	1
1,2,3-Trichloropropane	96-18-4	8260B	ND		4.9	0.84	ug/kg	1
1,2,4-Trimethylbenzene	**95-63-6**	**8260B**	**4.6**	**J**	**4.9**	**1.4**	**ug/kg**	**1**
1,3,5-Trimethylbenzene	**108-67-8**	**8260B**	**1.6**	**J**	**4.9**	**1.5**	**ug/kg**	**1**
Vinyl acetate	108-05-4	8260B	ND		4.9	0.89	ug/kg	1
Vinyl chloride	75-01-4	8260B	ND		4.9	0.85	ug/kg	1
Xylenes (total)	**1330-20-7**	**8260B**	**8.2**		**4.9**	**2.9**	**ug/kg**	**1**

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		106	53-142
Bromofluorobenzene		89	47-138
Toluene-d8		92	68-124

Footnote(s): *NC Cert #387, NELAC Cert #E87358

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E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
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Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Semivolatile Organic Compounds by GC/MS

Client: **ARM Environmental Services, Inc.**
Laboratory ID: **GI17013-002**
Description: **MW-1 (10')**
Matrix: **Solid**
Date Sampled: **09/15/2005 1055**
% Solids: **90.5** **09/19/2005 1727**
Date Received: **09/16/2005**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3550B	8270C	1	09/21/2005 1421	DC	09/19/2005 1623	30815

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Acenaphthene	83-32-9	8270C	ND		360	11	ug/kg	1
Acenaphthylene	208-96-8	8270C	ND		360	14	ug/kg	1
Anthracene	120-12-7	8270C	ND		360	16	ug/kg	1
Benzo(a)anthracene	56-55-3	8270C	ND		360	12	ug/kg	1
Benzo(a)pyrene	50-32-8	8270C	ND		360	27	ug/kg	1
Benzo(b)fluoranthene	205-99-2	8270C	ND		360	25	ug/kg	1
Benzo(g,h,i)perylene	191-24-2	8270C	ND		360	25	ug/kg	1
Benzo(k)fluoranthene	207-08-9	8270C	ND		360	30	ug/kg	1
Benzoic acid	65-85-0	8270C	ND		9200	30	ug/kg	1
Benzyl alcohol	100-51-6	8270C	ND		360	190	ug/kg	1
4-Bromophenyl phenyl ether	101-55-3	8270C	ND		360	15	ug/kg	1
Butyl benzyl phthalate	85-68-7	8270C	ND		360	12	ug/kg	1
4-Chloro-3-methyl phenol	59-50-7	8270C	ND		360	20	ug/kg	1
4-Chloroaniline	106-47-8	8270C	ND		360	19	ug/kg	1
bis(2-Chloroethoxy)methane	111-91-1	8270C	ND		360	16	ug/kg	1
bis(2-Chloroethyl)ether	111-44-4	8270C	ND		360	15	ug/kg	1
bis(2-Chloroisopropyl)ether	108-60-1	8270C	ND		360	14	ug/kg	1
2-Chloronaphthalene	91-58-7	8270C	ND		360	17	ug/kg	1
2-Chlorophenol	95-57-8	8270C	ND		360	15	ug/kg	1
4-Chlorophenyl phenyl ether	7005-72-3	8270C	ND		360	14	ug/kg	1
Chrysene	218-01-9	8270C	ND		360	11	ug/kg	1
Di-n-butyl phthalate	84-74-2	8270C	ND		360	48	ug/kg	1
Di-n-octylphthalate	117-84-0	8270C	ND		360	44	ug/kg	1
Dibenzo(a,h)anthracene	53-70-3	8270C	ND		360	24	ug/kg	1
Dibenzofuran	132-64-9	8270C	ND		360	14	ug/kg	1
1,2-Dichlorobenzene	95-50-1	8270C	ND		360	12	ug/kg	1
1,4-Dichlorobenzene	106-46-7	8270C	ND		360	16	ug/kg	1
3,3'-Dichlorobenzidine	91-94-1	8270C	ND		920	63	ug/kg	1
2,4-Dichlorophenol	120-83-2	8270C	ND		360	15	ug/kg	1
Diethylphthalate	84-66-2	8270C	ND		360	14	ug/kg	1
Dimethyl phthalate	131-11-3	8270C	ND		360	10	ug/kg	1
2,4-Dimethylphenol	105-67-9	8270C	ND		360	19	ug/kg	1
4,6-Dinitro-2-methylphenol	534-52-1	8270C	ND		920	42	ug/kg	1
2,4-Dinitrophenol	51-28-5	8270C	ND		920	7.3	ug/kg	1
2,4-Dinitrotoluene	121-14-2	8270C	ND		360	27	ug/kg	1
2,6-Dinitrotoluene	606-20-2	8270C	ND		360	32	ug/kg	1
1,2-Diphenylhydrazine(as azobenzene)	103-33-3	8270C	ND		360	10	ug/kg	1
bis(2-Ethylhexyl)phthalate	**117-81-7**	**8270C**	**40**	**J**	**360**	**23**	**ug/kg**	**1**
Fluoranthene	206-44-0	8270C	ND		360	11	ug/kg	1
Fluorene	86-73-7	8270C	ND		360	14	ug/kg	1
Hexachlorobenzene	118-74-1	8270C	ND		360	15	ug/kg	1
Hexachlorobutadiene	87-68-3	8270C	ND		360	15	ug/kg	1
Hexachlorocyclopentadiene	77-47-4	8270C	ND		920	71	ug/kg	1
Hexachloroethane	67-72-1	8270C	ND		360	18	ug/kg	1
Indeno(1,2,3-c,d)pyrene	193-39-5	8270C	ND		360	33	ug/kg	1
Isophorone	78-59-1	8270C	ND		360	17	ug/kg	1

Footnote(s): *NC Cert #387, NELAC Cert #E87358

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
B = Detected in the method blank
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E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Semivolatile Organic Compounds by GC/MS

Client: **ARM Environmental Services, Inc.**
Laboratory ID: **GI17013-002**
Description: **MW-1 (10')**
Matrix: **Solid**
Date Sampled: **09/15/2005 1055**
% Solids: **90.5** **09/19/2005 1727**
Date Received: **09/16/2005**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3550B	8270C	1	09/21/2005 1421	DC	09/19/2005 1623	30815

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
2-Methylnaphthalene	**91-57-6**	**8270C**	**350**	**J**	**360**	**13**	**ug/kg**	**1**
2-Methylphenol	95-48-7	8270C	ND		360	20	ug/kg	1
3 & 4-Methylphenol	106-44-5	8270C	ND		740	34	ug/kg	1
N-Nitrosodi-n-propylamine	621-64-7	8270C	ND		360	19	ug/kg	1
N-Nitrosodiphenylamine/Diphenylamine	86-30-6	8270C	ND		360	12	ug/kg	1
Naphthalene	**91-20-3**	**8270C**	**110**	**J**	**360**	**15**	**ug/kg**	**1**
Nitrobenzene	98-95-3	8270C	ND		360	17	ug/kg	1
2-Nitrophenol	88-75-5	8270C	ND		360	39	ug/kg	1
4-Nitrophenol	100-02-7	8270C	ND		920	160	ug/kg	1
Pentachlorophenol	87-86-5	8270C	ND		920	39	ug/kg	1
Phenanthrene	**85-01-8**	**8270C**	**85**	**J**	**360**	**15**	**ug/kg**	**1**
Phenol	108-95-2	8270C	ND		360	17	ug/kg	1
Pyrene	129-00-0	8270C	ND		360	16	ug/kg	1
1,2,4-Trichlorobenzene	120-82-1	8270C	ND		360	17	ug/kg	1
2,4,6-Trichlorophenol	88-06-2	8270C	ND		360	20	ug/kg	1
1,3-Dichlorobenzene	541-73-1	8270C	ND		360	14	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
2,4,6-Tribromophenol		98	30-130
2-Fluorobiphenyl		76	30-130
2-Fluorophenol		78	30-130
Nitrobenzene-d5		84	30-130
Phenol-d5		79	30-130
Terphenyl-d14		96	30-130

Footnote(s): *NC Cert #387, NELAC Cert #E87358

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"
B = Detected in the method blank
J = Estimated result less than the PQL
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria

MADEP EPH

Client: **ARM Environmental Services, Inc.**
Laboratory ID: **GI17013-002**
Description: **MW-1 (10')**
Matrix: **Solid**
Date Sampled: **09/15/2005 1055**
% Solids: **90.5** **09/19/2005 1727**
Date Received: **09/16/2005**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1		MADEP-EPH-04-1	1	09/25/2005 1309	*		

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
C9 - C18 Aliphatics		MADEP-EPH-04-1	ND		11	3.3	mg/kg	1
C19 - C36 Aliphatics		MADEP-EPH-04-1	ND		11	3.5	mg/kg	1
C11 - C22 Aromatics		MADEP-EPH-04-1	ND		11	3.9	mg/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
2-Bromonaphthalene		70	40-140
2-Fluorobiphenyl		76	40-140
C - 35		52	40-140
o - Terphenyl		49	40-140

Footnote(s): *NC Cert #387, NELAC Cert #E87358

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
B = Detected in the method blank
J = Estimated result less than the PQL
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

MADEP VPH

Client: **ARM Environmental Services, Inc.**	Laboratory ID: **GI17013-002**
Description: **MW-1 (10')**	Matrix: **Solid**
Date Sampled: **09/15/2005 1055**	% Solids: **90.5** **09/19/2005 1727**
Date Received: **09/16/2005**	

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1		MADEP-VPH-04-1.1	1	09/25/2005 1533	*		

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
C5 - C8 Aliphatics		**MADEP-VPH-04-1.1**	**2.5**	**J**	**5.5**	**0.12**	**mg/kg**	**1**
C9 - C12 Aliphatics		**MADEP-VPH-04-1.1**	**0.91**	**J**	**5.5**	**0.23**	**mg/kg**	**1**
C9 - C10 Aromatics		**MADEP-VPH-04-1.1**	**1.2**	**J**	**5.5**	**0.013**	**mg/kg**	**1**

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
2,5-Dibromotoluene (FID)		102	70-130
2,5-Dibromotoluene (PID)		84	60-140

Footnote(s): *NC Cert #387, NELAC Cert #E87358

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

B = Detected in the method blank
J = Estimated result less than the PQL

E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria

Volatile Organic Compounds by GC/MS

Client: **ARM Environmental Services, Inc.**
Laboratory ID: **GI17013-003**
Description: **MW-2 (5')**
Matrix: **Solid**
Date Sampled: **09/15/2005 1140**
% Solids: **86.1** **09/19/2005 1727**
Date Received: **09/16/2005**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5035	8260B	50	09/27/2005 1627	RED		31115

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Acetone	**67-64-1**	**8260B**	**250**	**J**	**900**	**81**	**ug/kg**	**1**
Benzene	71-43-2	8260B	ND		220	50	ug/kg	1
Bromobenzene	108-86-1	8260B	ND		220	32	ug/kg	1
Bromochloromethane	74-97-5	8260B	ND		220	45	ug/kg	1
Bromodichloromethane	75-27-4	8260B	ND		220	50	ug/kg	1
Bromoform	75-25-2	8260B	ND		220	32	ug/kg	1
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		220	81	ug/kg	1
2-Butanone (MEK)	78-93-3	8260B	ND		450	110	ug/kg	1
n-Butylbenzene	104-51-8	8260B	ND		220	45	ug/kg	1
sec-Butylbenzene	**135-98-8**	**8260B**	**58**	**J**	**220**	**45**	**ug/kg**	**1**
tert-Butylbenzene	98-06-6	8260B	ND		220	45	ug/kg	1
Carbon tetrachloride	56-23-5	8260B	ND		220	81	ug/kg	1
Chlorobenzene	108-90-7	8260B	ND		220	68	ug/kg	1
Chloroethane	75-00-3	8260B	ND		220	59	ug/kg	1
Chloroform	67-66-3	8260B	ND		220	37	ug/kg	1
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		220	45	ug/kg	1
2-Chlorotoluene	95-49-8	8260B	ND		220	120	ug/kg	1
4-Chlorotoluene	106-43-4	8260B	ND		220	86	ug/kg	1
Dibromochloromethane	124-48-1	8260B	ND		220	28	ug/kg	1
1,2-Dibromoethane (EDB)	106-93-4	8260B	ND		220	38	ug/kg	1
1,2-Dichlorobenzene	95-50-1	8260B	ND		220	42	ug/kg	1
1,3-Dichlorobenzene	541-73-1	8260B	ND		220	59	ug/kg	1
1,4-Dichlorobenzene	106-46-7	8260B	ND		220	68	ug/kg	1
Dichlorodifluoromethane	75-71-8	8260B	ND		220	72	ug/kg	1
1,1-Dichloroethane	75-34-3	8260B	ND		220	33	ug/kg	1
1,2-Dichloroethane	107-06-2	8260B	ND		220	45	ug/kg	1
1,1-Dichloroethene	75-35-4	8260B	ND		220	77	ug/kg	1
cis-1,2-Dichloroethene	156-59-2	8260B	ND		220	34	ug/kg	1
trans-1,2-Dichloroethene	156-60-5	8260B	ND		220	68	ug/kg	1
1,2-Dichloropropane	78-87-5	8260B	ND		220	41	ug/kg	1
1,3-Dichloropropane	142-28-9	8260B	ND		220	45	ug/kg	1
2,2-Dichloropropane	594-20-7	8260B	ND		220	50	ug/kg	1
1,1-Dichloropropene	563-58-6	8260B	ND		220	68	ug/kg	1
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		220	31	ug/kg	1
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		220	37	ug/kg	1
Diisopropyl ether (IPE)	**108-20-3**	**8260B**	**20**	**J**	**220**	**14**	**ug/kg**	**1**
Ethylbenzene	**100-41-4**	**8260B**	**90**	**J**	**220**	**50**	**ug/kg**	**1**
2-Hexanone	591-78-6	8260B	ND		450	59	ug/kg	1
Isopropylbenzene	**98-82-8**	**8260B**	**42**	**J**	**220**	**36**	**ug/kg**	**1**
p-Isopropyltoluene	99-87-6	8260B	ND		220	63	ug/kg	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		220	18	ug/kg	1
4-Methyl-2-pentanone	108-10-1	8260B	ND		450	68	ug/kg	1
Methylene chloride	75-09-2	8260B	ND		220	120	ug/kg	1
Naphthalene	**91-20-3**	**8260B**	**990**	**B**	**220**	**54**	**ug/kg**	**1**
n-Propylbenzene	**103-65-1**	**8260B**	**170**	**J**	**220**	**45**	**ug/kg**	**1**
Styrene	100-42-5	8260B	ND		220	50	ug/kg	1

Footnote(s): *NC Cert #387, NELAC Cert #E87358

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Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"
N = Recovery is out of criteria

Volatile Organic Compounds by GC/MS

Client: **ARM Environmental Services, Inc.**
Laboratory ID: **GI17013-003**
Description: **MW-2 (5')**
Matrix: **Solid**
Date Sampled: **09/15/2005 1140**
% Solids: **86.1** **09/19/2005 1727**
Date Received: **09/16/2005**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5035	8260B	50	09/27/2005 1627	RED		31115

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		220	21	ug/kg	1
Tetrachloroethene	127-18-4	8260B	ND		220	100	ug/kg	1
Toluene	108-88-3	8260B	ND		220	63	ug/kg	1
1,2,3-Trichlorobenzene	87-61-6	8260B	ND		220	41	ug/kg	1
1,2,4-Trichlorobenzene	120-82-1	8260B	ND		220	45	ug/kg	1
1,1,1-Trichloroethane	71-55-6	8260B	ND		220	38	ug/kg	1
1,1,2-Trichloroethane	79-00-5	8260B	ND		220	36	ug/kg	1
Trichloroethene	79-01-6	8260B	ND		220	86	ug/kg	1
Trichlorofluoromethane	75-69-4	8260B	ND		220	68	ug/kg	1
1,2,3-Trichloropropane	96-18-4	8260B	ND		220	38	ug/kg	1
1,2,4-Trimethylbenzene	**95-63-6**	**8260B**	**1400**		**220**	**63**	**ug/kg**	**1**
1,3,5-Trimethylbenzene	**108-67-8**	**8260B**	**470**		**220**	**68**	**ug/kg**	**1**
Vinyl acetate	108-05-4	8260B	ND		220	41	ug/kg	1
Vinyl chloride	75-01-4	8260B	ND		220	39	ug/kg	1
Xylenes (total)	**1330-20-7**	**8260B**	**190**	**J**	**220**	**130**	**ug/kg**	**1**

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		104	53-142
Bromofluorobenzene		122	47-138
Toluene-d8		115	68-124

Footnote(s): *NC Cert #387, NELAC Cert #E87358

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Semivolatile Organic Compounds by GC/MS

Client: **ARM Environmental Services, Inc.**
Laboratory ID: **GI17013-003**
Description: **MW-2 (5')**
Matrix: **Solid**
Date Sampled: **09/15/2005 1140**
% Solids: **86.1** **09/19/2005 1727**
Date Received: **09/16/2005**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3550B	8270C	1	09/21/2005 1547	DC	09/19/2005 1623	30815

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Acenaphthene	83-32-9	8270C	ND		380	12	ug/kg	1
Acenaphthylene	208-96-8	8270C	ND		380	15	ug/kg	1
Anthracene	120-12-7	8270C	ND		380	17	ug/kg	1
Benzo(a)anthracene	56-55-3	8270C	ND		380	13	ug/kg	1
Benzo(a)pyrene	50-32-8	8270C	ND		380	28	ug/kg	1
Benzo(b)fluoranthene	205-99-2	8270C	ND		380	26	ug/kg	1
Benzo(g,h,i)perylene	191-24-2	8270C	ND		380	26	ug/kg	1
Benzo(k)fluoranthene	207-08-9	8270C	ND		380	32	ug/kg	1
Benzoic acid	65-85-0	8270C	ND		9600	31	ug/kg	1
Benzyl alcohol	100-51-6	8270C	ND		380	200	ug/kg	1
4-Bromophenyl phenyl ether	101-55-3	8270C	ND		380	16	ug/kg	1
Butyl benzyl phthalate	85-68-7	8270C	ND		380	12	ug/kg	1
4-Chloro-3-methyl phenol	59-50-7	8270C	ND		380	21	ug/kg	1
4-Chloroaniline	106-47-8	8270C	ND		380	20	ug/kg	1
bis(2-Chloroethoxy)methane	111-91-1	8270C	ND		380	17	ug/kg	1
bis(2-Chloroethyl)ether	111-44-4	8270C	ND		380	16	ug/kg	1
bis(2-Chloroisopropyl)ether	108-60-1	8270C	ND		380	15	ug/kg	1
2-Chloronaphthalene	91-58-7	8270C	ND		380	18	ug/kg	1
2-Chlorophenol	95-57-8	8270C	ND		380	16	ug/kg	1
4-Chlorophenyl phenyl ether	7005-72-3	8270C	ND		380	15	ug/kg	1
Chrysene	218-01-9	8270C	ND		380	12	ug/kg	1
Di-n-butyl phthalate	**84-74-2**	**8270C**	**160**	**J**	**380**	**51**	**ug/kg**	**1**
Di-n-octylphthalate	117-84-0	8270C	ND		380	46	ug/kg	1
Dibenzo(a,h)anthracene	53-70-3	8270C	ND		380	25	ug/kg	1
Dibenzofuran	132-64-9	8270C	ND		380	15	ug/kg	1
1,2-Dichlorobenzene	95-50-1	8270C	ND		380	13	ug/kg	1
1,4-Dichlorobenzene	106-46-7	8270C	ND		380	17	ug/kg	1
3,3'-Dichlorobenzidine	91-94-1	8270C	ND		960	66	ug/kg	1
2,4-Dichlorophenol	120-83-2	8270C	ND		380	16	ug/kg	1
Diethylphthalate	84-66-2	8270C	ND		380	15	ug/kg	1
Dimethyl phthalate	131-11-3	8270C	ND		380	11	ug/kg	1
2,4-Dimethylphenol	105-67-9	8270C	ND		380	20	ug/kg	1
4,6-Dinitro-2-methylphenol	534-52-1	8270C	ND		960	44	ug/kg	1
2,4-Dinitrophenol	51-28-5	8270C	ND		960	7.7	ug/kg	1
2,4-Dinitrotoluene	121-14-2	8270C	ND		380	28	ug/kg	1
2,6-Dinitrotoluene	606-20-2	8270C	ND		380	33	ug/kg	1
1,2-Diphenylhydrazine(as azobenzene)	103-33-3	8270C	ND		380	11	ug/kg	1
bis(2-Ethylhexyl)phthalate	117-81-7	8270C	ND		380	24	ug/kg	1
Fluoranthene	206-44-0	8270C	ND		380	12	ug/kg	1
Fluorene	86-73-7	8270C	ND		380	15	ug/kg	1
Hexachlorobenzene	118-74-1	8270C	ND		380	15	ug/kg	1
Hexachlorobutadiene	87-68-3	8270C	ND		380	16	ug/kg	1
Hexachlorocyclopentadiene	77-47-4	8270C	ND		960	74	ug/kg	1
Hexachloroethane	67-72-1	8270C	ND		380	19	ug/kg	1
Indeno(1,2,3-c,d)pyrene	193-39-5	8270C	ND		380	35	ug/kg	1
Isophorone	78-59-1	8270C	ND		380	18	ug/kg	1

Footnote(s): *NC Cert #387, NELAC Cert #E87358

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Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Semivolatile Organic Compounds by GC/MS

Client: **ARM Environmental Services, Inc.**
Laboratory ID: **GI17013-003**
Description: **MW-2 (5')**
Matrix: **Solid**
Date Sampled: **09/15/2005 1140**
% Solids: **86.1** **09/19/2005 1727**
Date Received: **09/16/2005**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3550B	8270C	1	09/21/2005 1547	DC	09/19/2005 1623	30815

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
2-Methylnaphthalene	**91-57-6**	**8270C**	**470**		**380**	**14**	**ug/kg**	**1**
2-Methylphenol	95-48-7	8270C	ND		380	22	ug/kg	1
3 & 4-Methylphenol	106-44-5	8270C	ND		780	36	ug/kg	1
N-Nitrosodi-n-propylamine	621-64-7	8270C	ND		380	20	ug/kg	1
N-Nitrosodiphenylamine/Diphenylamine	86-30-6	8270C	ND		380	13	ug/kg	1
Naphthalene	**91-20-3**	**8270C**	**230**	**J**	**380**	**16**	**ug/kg**	**1**
Nitrobenzene	98-95-3	8270C	ND		380	18	ug/kg	1
2-Nitrophenol	88-75-5	8270C	ND		380	41	ug/kg	1
4-Nitrophenol	100-02-7	8270C	ND		960	160	ug/kg	1
Pentachlorophenol	87-86-5	8270C	ND		960	41	ug/kg	1
Phenanthrene	85-01-8	8270C	ND		380	16	ug/kg	1
Phenol	108-95-2	8270C	ND		380	18	ug/kg	1
Pyrene	129-00-0	8270C	ND		380	17	ug/kg	1
1,2,4-Trichlorobenzene	120-82-1	8270C	ND		380	18	ug/kg	1
2,4,6-Trichlorophenol	88-06-2	8270C	ND		380	21	ug/kg	1
1,3-Dichlorobenzene	541-73-1	8270C	ND		380	15	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
2,4,6-Tribromophenol		85	30-130
2-Fluorobiphenyl		73	30-130
2-Fluorophenol		73	30-130
Nitrobenzene-d5		77	30-130
Phenol-d5		76	30-130
Terphenyl-d14		88	30-130

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Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"
N = Recovery is out of criteria

MADEP EPH

Client: **ARM Environmental Services, Inc.**
Laboratory ID: **GI17013-003**
Description: **MW-2 (5')**
Matrix: **Solid**
Date Sampled: **09/15/2005 1140**
% Solids: **86.1** **09/19/2005 1727**
Date Received: **09/16/2005**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1		MADEP-EPH-04-1	1	09/27/2005 2012	*		

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
C9 - C18 Aliphatics		**MADEP-EPH-04-1**	**12**		**12**	**3.4**	**mg/kg**	**1**
C19 - C36 Aliphatics		MADEP-EPH-04-1	ND		12	3.6	mg/kg	1
C11 - C22 Aromatics		**MADEP-EPH-04-1**	**5.3**	**J**	**12**	**4.0**	**mg/kg**	**1**

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
2-Bromonaphthalene		68	40-140
2-Fluorobiphenyl		77	40-140
C - 35		49	40-140
o - Terphenyl		56	40-140

Footnote(s): *NC Cert #387, NELAC Cert #E87358

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P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

MADEP VPH

Client: **ARM Environmental Services, Inc.**
Laboratory ID: **GI17013-003**
Description: **MW-2 (5')**
Matrix: **Solid**
Date Sampled: **09/15/2005 1140**
% Solids: **86.1** **09/19/2005 1727**
Date Received: **09/16/2005**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1		MADEP-VPH-04-1.1	1	09/28/2005 0255	*		

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
C5 - C8 Aliphatics		**MADEP-VPH-04-1.1**	**18**		**5.8**	**0.12**	**mg/kg**	**1**
C9 - C12 Aliphatics		**MADEP-VPH-04-1.1**	**190**		**5.8**	**0.24**	**mg/kg**	**1**
C9 - C10 Aromatics		**MADEP-VPH-04-1.1**	**69**		**5.8**	**0.014**	**mg/kg**	**1**

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
2,5-Dibromotoluene (FID)	N	132	70-130
2,5-Dibromotoluene (PID)		94	60-140

Footnote(s): *NC Cert #387, NELAC Cert #E87358

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B = Detected in the method blank
J = Estimated result less than the PQL
E = Quantitation of compound exceeded the calibration range
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N = Recovery is out of criteria

Volatile Organic Compounds by GC/MS

Client: **ARM Environmental Services, Inc.**
Laboratory ID: **GI17013-004**
Description: **MW-2 (10')**
Matrix: **Solid**
Date Sampled: **09/15/2005 1150**
% Solids: **75.6** **09/19/2005 1727**
Date Received: **09/16/2005**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5035	8260B	50	09/27/2005 1540	RED		31115

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Acetone	**67-64-1**	**8260B**	**450**	**J**	**1000**	**94**	**ug/kg**	**1**
Benzene	71-43-2	8260B	ND		260	58	ug/kg	1
Bromobenzene	108-86-1	8260B	ND		260	37	ug/kg	1
Bromochloromethane	74-97-5	8260B	ND		260	52	ug/kg	1
Bromodichloromethane	75-27-4	8260B	ND		260	58	ug/kg	1
Bromoform	75-25-2	8260B	ND		260	37	ug/kg	1
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		260	94	ug/kg	1
2-Butanone (MEK)	78-93-3	8260B	ND		520	120	ug/kg	1
n-Butylbenzene	**104-51-8**	**8260B**	**2200**		**260**	**52**	**ug/kg**	**1**
sec-Butylbenzene	**135-98-8**	**8260B**	**1400**		**260**	**52**	**ug/kg**	**1**
tert-Butylbenzene	**98-06-6**	**8260B**	**130**	**J**	**260**	**52**	**ug/kg**	**1**
Carbon tetrachloride	56-23-5	8260B	ND		260	94	ug/kg	1
Chlorobenzene	108-90-7	8260B	ND		260	79	ug/kg	1
Chloroethane	75-00-3	8260B	ND		260	68	ug/kg	1
Chloroform	67-66-3	8260B	ND		260	43	ug/kg	1
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		260	52	ug/kg	1
2-Chlorotoluene	95-49-8	8260B	ND		260	140	ug/kg	1
4-Chlorotoluene	106-43-4	8260B	ND		260	100	ug/kg	1
Dibromochloromethane	124-48-1	8260B	ND		260	33	ug/kg	1
1,2-Dibromoethane (EDB)	106-93-4	8260B	ND		260	44	ug/kg	1
1,2-Dichlorobenzene	95-50-1	8260B	ND		260	49	ug/kg	1
1,3-Dichlorobenzene	541-73-1	8260B	ND		260	68	ug/kg	1
1,4-Dichlorobenzene	106-46-7	8260B	ND		260	79	ug/kg	1
Dichlorodifluoromethane	75-71-8	8260B	ND		260	84	ug/kg	1
1,1-Dichloroethane	75-34-3	8260B	ND		260	38	ug/kg	1
1,2-Dichloroethane	107-06-2	8260B	ND		260	52	ug/kg	1
1,1-Dichloroethene	75-35-4	8260B	ND		260	89	ug/kg	1
cis-1,2-Dichloroethene	156-59-2	8260B	ND		260	40	ug/kg	1
trans-1,2-Dichloroethene	156-60-5	8260B	ND		260	79	ug/kg	1
1,2-Dichloropropane	78-87-5	8260B	ND		260	48	ug/kg	1
1,3-Dichloropropane	142-28-9	8260B	ND		260	52	ug/kg	1
2,2-Dichloropropane	594-20-7	8260B	ND		260	58	ug/kg	1
1,1-Dichloropropene	563-58-6	8260B	ND		260	79	ug/kg	1
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		260	36	ug/kg	1
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		260	43	ug/kg	1
Diisopropyl ether (IPE)	**108-20-3**	**8260B**	**410**		**260**	**16**	**ug/kg**	**1**
Ethylbenzene	**100-41-4**	**8260B**	**340**		**260**	**58**	**ug/kg**	**1**
2-Hexanone	591-78-6	8260B	ND		520	68	ug/kg	1
Isopropylbenzene	**98-82-8**	**8260B**	**1200**		**260**	**42**	**ug/kg**	**1**
p-Isopropyltoluene	**99-87-6**	**8260B**	**820**		**260**	**73**	**ug/kg**	**1**
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		260	21	ug/kg	1
4-Methyl-2-pentanone	108-10-1	8260B	ND		520	79	ug/kg	1
Methylene chloride	75-09-2	8260B	ND		260	140	ug/kg	1
Naphthalene	**91-20-3**	**8260B**	**4700**	**B**	**260**	**63**	**ug/kg**	**1**
n-Propylbenzene	**103-65-1**	**8260B**	**2000**		**260**	**52**	**ug/kg**	**1**
Styrene	100-42-5	8260B	ND		260	58	ug/kg	1

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P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Volatile Organic Compounds by GC/MS

Client: **ARM Environmental Services, Inc.**
Laboratory ID: **GI17013-004**
Description: **MW-2 (10')**
Matrix: **Solid**
Date Sampled: **09/15/2005 1150**
% Solids: **75.6** **09/19/2005 1727**
Date Received: **09/16/2005**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5035	8260B	50	09/27/2005 1540	RED		31115

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		260	25	ug/kg	1
Tetrachloroethene	127-18-4	8260B	ND		260	120	ug/kg	1
Toluene	108-88-3	8260B	ND		260	73	ug/kg	1
1,2,3-Trichlorobenzene	87-61-6	8260B	ND		260	47	ug/kg	1
1,2,4-Trichlorobenzene	120-82-1	8260B	ND		260	52	ug/kg	1
1,1,1-Trichloroethane	71-55-6	8260B	ND		260	44	ug/kg	1
1,1,2-Trichloroethane	79-00-5	8260B	ND		260	41	ug/kg	1
Trichloroethene	79-01-6	8260B	ND		260	100	ug/kg	1
Trichlorofluoromethane	75-69-4	8260B	ND		260	79	ug/kg	1
1,2,3-Trichloropropane	96-18-4	8260B	ND		260	44	ug/kg	1
1,2,4-Trimethylbenzene	**95-63-6**	**8260B**	**310**		**260**	**73**	**ug/kg**	**1**
1,3,5-Trimethylbenzene	**108-67-8**	**8260B**	**130**	**J**	**260**	**79**	**ug/kg**	**1**
Vinyl acetate	108-05-4	8260B	ND		260	47	ug/kg	1
Vinyl chloride	75-01-4	8260B	ND		260	45	ug/kg	1
Xylenes (total)	1330-20-7	8260B	ND		260	150	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		112	53-142
Bromofluorobenzene		122	47-138
Toluene-d8		118	68-124

Footnote(s): *NC Cert #387, NELAC Cert #E87358

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
B = Detected in the method blank
J = Estimated result less than the PQL
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Semivolatile Organic Compounds by GC/MS

Client: **ARM Environmental Services, Inc.**
Laboratory ID: **GI17013-004**
Description: **MW-2 (10')**
Matrix: **Solid**
Date Sampled: **09/15/2005 1150**
% Solids: **75.6** **09/19/2005 1727**
Date Received: **09/16/2005**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3550B	8270C	1	09/21/2005 1616	DC	09/19/2005 1623	30815

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Acenaphthene	83-32-9	8270C	ND		440	13	ug/kg	1
Acenaphthylene	208-96-8	8270C	ND		440	17	ug/kg	1
Anthracene	120-12-7	8270C	ND		440	19	ug/kg	1
Benzo(a)anthracene	56-55-3	8270C	ND		440	14	ug/kg	1
Benzo(a)pyrene	50-32-8	8270C	ND		440	32	ug/kg	1
Benzo(b)fluoranthene	205-99-2	8270C	ND		440	29	ug/kg	1
Benzo(g,h,i)perylene	191-24-2	8270C	ND		440	30	ug/kg	1
Benzo(k)fluoranthene	207-08-9	8270C	ND		440	36	ug/kg	1
Benzoic acid	65-85-0	8270C	ND		11000	36	ug/kg	1
Benzyl alcohol	100-51-6	8270C	ND		440	220	ug/kg	1
4-Bromophenyl phenyl ether	101-55-3	8270C	ND		440	18	ug/kg	1
Butyl benzyl phthalate	85-68-7	8270C	ND		440	14	ug/kg	1
4-Chloro-3-methyl phenol	59-50-7	8270C	ND		440	24	ug/kg	1
4-Chloroaniline	106-47-8	8270C	ND		440	23	ug/kg	1
bis(2-Chloroethoxy)methane	111-91-1	8270C	ND		440	19	ug/kg	1
bis(2-Chloroethyl)ether	111-44-4	8270C	ND		440	18	ug/kg	1
bis(2-Chloroisopropyl)ether	108-60-1	8270C	ND		440	17	ug/kg	1
2-Chloronaphthalene	91-58-7	8270C	ND		440	21	ug/kg	1
2-Chlorophenol	95-57-8	8270C	ND		440	18	ug/kg	1
4-Chlorophenyl phenyl ether	7005-72-3	8270C	ND		440	17	ug/kg	1
Chrysene	218-01-9	8270C	ND		440	14	ug/kg	1
Di-n-butyl phthalate	84-74-2	8270C	ND		440	58	ug/kg	1
Di-n-octylphthalate	117-84-0	8270C	ND		440	52	ug/kg	1
Dibenzo(a,h)anthracene	53-70-3	8270C	ND		440	29	ug/kg	1
Dibenzofuran	132-64-9	8270C	ND		440	17	ug/kg	1
1,2-Dichlorobenzene	95-50-1	8270C	ND		440	15	ug/kg	1
1,4-Dichlorobenzene	106-46-7	8270C	ND		440	19	ug/kg	1
3,3'-Dichlorobenzidine	91-94-1	8270C	ND		1100	75	ug/kg	1
2,4-Dichlorophenol	120-83-2	8270C	ND		440	18	ug/kg	1
Diethylphthalate	84-66-2	8270C	ND		440	17	ug/kg	1
Dimethyl phthalate	131-11-3	8270C	ND		440	12	ug/kg	1
2,4-Dimethylphenol	105-67-9	8270C	ND		440	23	ug/kg	1
4,6-Dinitro-2-methylphenol	534-52-1	8270C	ND		1100	51	ug/kg	1
2,4-Dinitrophenol	51-28-5	8270C	ND		1100	8.7	ug/kg	1
2,4-Dinitrotoluene	121-14-2	8270C	ND		440	32	ug/kg	1
2,6-Dinitrotoluene	606-20-2	8270C	ND		440	38	ug/kg	1
1,2-Diphenylhydrazine(as azobenzene)	103-33-3	8270C	ND		440	12	ug/kg	1
bis(2-Ethylhexyl)phthalate	**117-81-7**	**8270C**	**98**	**J**	**440**	**27**	**ug/kg**	**1**
Fluoranthene	206-44-0	8270C	ND		440	14	ug/kg	1
Fluorene	86-73-7	8270C	ND		440	17	ug/kg	1
Hexachlorobenzene	118-74-1	8270C	ND		440	18	ug/kg	1
Hexachlorobutadiene	87-68-3	8270C	ND		440	18	ug/kg	1
Hexachlorocyclopentadiene	77-47-4	8270C	ND		1100	85	ug/kg	1
Hexachloroethane	67-72-1	8270C	ND		440	22	ug/kg	1
Indeno(1,2,3-c,d)pyrene	193-39-5	8270C	ND		440	39	ug/kg	1
Isophorone	78-59-1	8270C	ND		440	21	ug/kg	1

Footnote(s): *NC Cert #387, NELAC Cert #E87358

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
B = Detected in the method blank
J = Estimated result less than the PQL
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Semivolatile Organic Compounds by GC/MS

Client: **ARM Environmental Services, Inc.**
Laboratory ID: **GI17013-004**
Description: **MW-2 (10')**
Matrix: **Solid**
Date Sampled: **09/15/2005 1150**
% Solids: **75.6** **09/19/2005 1727**
Date Received: **09/16/2005**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3550B	8270C	1	09/21/2005 1616	DC	09/19/2005 1623	30815

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
2-Methylnaphthalene	**91-57-6**	**8270C**	**6300**		**440**	**16**	**ug/kg**	**1**
2-Methylphenol	95-48-7	8270C	ND		440	25	ug/kg	1
3 & 4-Methylphenol	106-44-5	8270C	ND		890	41	ug/kg	1
N-Nitrosodi-n-propylamine	621-64-7	8270C	ND		440	22	ug/kg	1
N-Nitrosodiphenylamine/Diphenylamine	86-30-6	8270C	ND		440	15	ug/kg	1
Naphthalene	**91-20-3**	**8270C**	**1100**		**440**	**18**	**ug/kg**	**1**
Nitrobenzene	98-95-3	8270C	ND		440	20	ug/kg	1
2-Nitrophenol	88-75-5	8270C	ND		440	47	ug/kg	1
4-Nitrophenol	100-02-7	8270C	ND		1100	190	ug/kg	1
Pentachlorophenol	87-86-5	8270C	ND		1100	46	ug/kg	1
Phenanthrene	**85-01-8**	**8270C**	**3400**		**440**	**18**	**ug/kg**	**1**
Phenol	108-95-2	8270C	ND		440	21	ug/kg	1
Pyrene	**129-00-0**	**8270C**	**320**	**J**	**440**	**19**	**ug/kg**	**1**
1,2,4-Trichlorobenzene	120-82-1	8270C	ND		440	20	ug/kg	1
2,4,6-Trichlorophenol	88-06-2	8270C	ND		440	24	ug/kg	1
1,3-Dichlorobenzene	541-73-1	8270C	ND		440	17	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
2,4,6-Tribromophenol		98	30-130
2-Fluorobiphenyl		74	30-130
2-Fluorophenol		73	30-130
Nitrobenzene-d5		79	30-130
Phenol-d5		76	30-130
Terphenyl-d14		88	30-130

Footnote(s): *NC Cert #387, NELAC Cert #E87358

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Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

MADEP EPH

Client: **ARM Environmental Services, Inc.**
Laboratory ID: **GI17013-004**
Description: **MW-2 (10')**
Matrix: **Solid**
Date Sampled: **09/15/2005 1150**
% Solids: **75.6** **09/19/2005 1727**
Date Received: **09/16/2005**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1		MADEP-EPH-04-1	1	02/26/2005 1224	*		

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
C9 - C18 Aliphatics		**MADEP-EPH-04-1**	**910**		**14**	**4.0**	**mg/kg**	**1**
C19 - C36 Aliphatics		**MADEP-EPH-04-1**	**190**		**14**	**4.2**	**mg/kg**	**1**
C11 - C22 Aromatics		**MADEP-EPH-04-1**	**420**		**14**	**4.7**	**mg/kg**	**1**

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
2-Bromonaphthalene		62	40-140
2-Fluorobiphenyl		71	40-140
C - 35		75	40-140
o - Terphenyl	N	370	40-140

Footnote(s): *NC Cert #387, NELAC Cert #E87358

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"
B = Detected in the method blank
J = Estimated result less than the PQL
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria

MADEP VPH

Client: **ARM Environmental Services, Inc.**
Laboratory ID: **GI17013-004**
Description: **MW-2 (10')**
Matrix: **Solid**
Date Sampled: **09/15/2005 1150**
% Solids: **75.6** **09/19/2005 1727**
Date Received: **09/16/2005**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1		MADEP-VPH-04-1.1	1	02/28/2005 0544	*		

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
C5 - C8 Aliphatics		**MADEP-VPH-04-1.1**	**160**		**6.6**	**0.14**	**mg/kg**	**1**
C9 - C12 Aliphatics		**MADEP-VPH-04-1.1**	**390**		**6.6**	**0.27**	**mg/kg**	**1**
C9 - C10 Aromatics		**MADEP-VPH-04-1.1**	**160**		**6.6**	**0.016**	**mg/kg**	**1**

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
2,5-Dibromotoluene (FID)		75	70-130
2,5-Dibromotoluene (PID)		101	60-140

Footnote(s): *NC Cert #387, NELAC Cert #E87358

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E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Volatile Organic Compounds by GC/MS

Client: **ARM Environmental Services, Inc.** Laboratory ID: **GI17013-005**
Description: **MW-3 (5')** Matrix: **Solid**
Date Sampled: **09/15/2005 1225** % Solids: **75.9** **09/19/2005 1727**
Date Received: **09/16/2005**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5035	8260B	1	09/26/2005 1634	RED		31082

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Acetone	**67-64-1**	**8260B**	**37**		**20**	**1.8**	**ug/kg**	**1**
Benzene	71-43-2	8260B	ND		5.1	1.1	ug/kg	1
Bromobenzene	108-86-1	8260B	ND		5.1	0.71	ug/kg	1
Bromochloromethane	74-97-5	8260B	ND		5.1	1.0	ug/kg	1
Bromodichloromethane	75-27-4	8260B	ND		5.1	1.1	ug/kg	1
Bromoform	75-25-2	8260B	ND		5.1	0.71	ug/kg	1
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		5.1	1.8	ug/kg	1
2-Butanone (MEK)	**78-93-3**	**8260B**	**5.9**	**J**	**10**	**2.4**	**ug/kg**	**1**
n-Butylbenzene	**104-51-8**	**8260B**	**19**		**5.1**	**1.0**	**ug/kg**	**1**
sec-Butylbenzene	**135-98-8**	**8260B**	**27**		**5.1**	**1.0**	**ug/kg**	**1**
tert-Butylbenzene	**98-06-6**	**8260B**	**4.6**	**J**	**5.1**	**1.0**	**ug/kg**	**1**
Carbon tetrachloride	56-23-5	8260B	ND		5.1	1.8	ug/kg	1
Chlorobenzene	108-90-7	8260B	ND		5.1	1.5	ug/kg	1
Chloroethane	75-00-3	8260B	ND		5.1	1.3	ug/kg	1
Chloroform	67-66-3	8260B	ND		5.1	0.85	ug/kg	1
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		5.1	1.0	ug/kg	1
2-Chlorotoluene	95-49-8	8260B	ND		5.1	2.8	ug/kg	1
4-Chlorotoluene	106-43-4	8260B	ND		5.1	1.9	ug/kg	1
Dibromochloromethane	124-48-1	8260B	ND		5.1	0.64	ug/kg	1
1,2-Dibromoethane (EDB)	106-93-4	8260B	ND		5.1	0.87	ug/kg	1
1,2-Dichlorobenzene	95-50-1	8260B	ND		5.1	0.95	ug/kg	1
1,3-Dichlorobenzene	541-73-1	8260B	ND		5.1	1.3	ug/kg	1
1,4-Dichlorobenzene	106-46-7	8260B	ND		5.1	1.5	ug/kg	1
Dichlorodifluoromethane	75-71-8	8260B	ND		5.1	1.6	ug/kg	1
1,1-Dichloroethane	75-34-3	8260B	ND		5.1	0.74	ug/kg	1
1,2-Dichloroethane	107-06-2	8260B	ND		5.1	1.0	ug/kg	1
1,1-Dichloroethene	75-35-4	8260B	ND		5.1	1.7	ug/kg	1
cis-1,2-Dichloroethene	156-59-2	8260B	ND		5.1	0.78	ug/kg	1
trans-1,2-Dichloroethene	156-60-5	8260B	ND		5.1	1.5	ug/kg	1
1,2-Dichloropropane	78-87-5	8260B	ND		5.1	0.93	ug/kg	1
1,3-Dichloropropane	142-28-9	8260B	ND		5.1	1.0	ug/kg	1
2,2-Dichloropropane	594-20-7	8260B	ND		5.1	1.1	ug/kg	1
1,1-Dichloropropene	563-58-6	8260B	ND		5.1	1.5	ug/kg	1
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		5.1	0.69	ug/kg	1
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		5.1	0.84	ug/kg	1
Diisopropyl ether (IPE)	108-20-3	8260B	ND		5.1	0.32	ug/kg	1
Ethylbenzene	100-41-4	8260B	ND		5.1	1.1	ug/kg	1
2-Hexanone	591-78-6	8260B	ND		10	1.3	ug/kg	1
Isopropylbenzene	**98-82-8**	**8260B**	**5.2**		**5.1**	**0.82**	**ug/kg**	**1**
p-Isopropyltoluene	99-87-6	8260B	ND		5.1	1.4	ug/kg	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		5.1	0.41	ug/kg	1
4-Methyl-2-pentanone	108-10-1	8260B	ND		10	1.5	ug/kg	1
Methylene chloride	75-09-2	8260B	ND		5.1	2.6	ug/kg	1
Naphthalene	**91-20-3**	**8260B**	**27**		**5.1**	**1.2**	**ug/kg**	**1**
n-Propylbenzene	**103-65-1**	**8260B**	**4.3**	**J**	**5.1**	**1.0**	**ug/kg**	**1**
Styrene	100-42-5	8260B	ND		5.1	1.1	ug/kg	1

Footnote(s): *NC Cert #387, NELAC Cert #E87358

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E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Volatile Organic Compounds by GC/MS

Client: **ARM Environmental Services, Inc.**
Laboratory ID: **GI17013-005**
Description: **MW-3 (5')**
Matrix: **Solid**
Date Sampled: **09/15/2005 1225**
% Solids: **75.9** **09/19/2005 1727**
Date Received: **09/16/2005**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5035	8260B	1	09/26/2005 1634	RED		31082

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		5.1	0.48	ug/kg	1
Tetrachloroethene	127-18-4	8260B	ND		5.1	2.3	ug/kg	1
Toluene	108-88-3	8260B	ND		5.1	1.4	ug/kg	1
1,2,3-Trichlorobenzene	87-61-6	8260B	ND		5.1	0.92	ug/kg	1
1,2,4-Trichlorobenzene	120-82-1	8260B	ND		5.1	1.0	ug/kg	1
1,1,1-Trichloroethane	71-55-6	8260B	ND		5.1	0.87	ug/kg	1
1,1,2-Trichloroethane	79-00-5	8260B	ND		5.1	0.80	ug/kg	1
Trichloroethene	79-01-6	8260B	ND		5.1	1.9	ug/kg	1
Trichlorofluoromethane	75-69-4	8260B	ND		5.1	1.5	ug/kg	1
1,2,3-Trichloropropane	96-18-4	8260B	ND		5.1	0.87	ug/kg	1
1,2,4-Trimethylbenzene	**95-63-6**	**8260B**	**1.5**	**J**	**5.1**	**1.4**	**ug/kg**	**1**
1,3,5-Trimethylbenzene	108-67-8	8260B	ND		5.1	1.5	ug/kg	1
Vinyl acetate	108-05-4	8260B	ND		5.1	0.92	ug/kg	1
Vinyl chloride	75-01-4	8260B	ND		5.1	0.88	ug/kg	1
Xylenes (total)	1330-20-7	8260B	ND		5.1	3.0	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		86	53-142
Bromofluorobenzene		75	47-138
Toluene-d8		79	68-124

Footnote(s): *NC Cert #387, NELAC Cert #E87358

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
B = Detected in the method blank
J = Estimated result less than the PQL
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Semivolatile Organic Compounds by GC/MS

Client: **ARM Environmental Services, Inc.** Laboratory ID: **GI17013-005**
Description: **MW-3 (5')** Matrix: **Solid**
Date Sampled: **09/15/2005 1225** % Solids: **75.9** **09/19/2005 1727**
Date Received: **09/16/2005**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3550B	8270C	1	09/21/2005 1644	DC	09/19/2005 1623	30815

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Acenaphthene	**83-32-9**	**8270C**	**440**		**430**	**13**	**ug/kg**	**1**
Acenaphthylene	208-96-8	8270C	ND		430	17	ug/kg	1
Anthracene	**120-12-7**	**8270C**	**630**		**430**	**19**	**ug/kg**	**1**
Benzo(a)anthracene	**56-55-3**	**8270C**	**1900**		**430**	**14**	**ug/kg**	**1**
Benzo(a)pyrene	**50-32-8**	**8270C**	**1500**		**430**	**32**	**ug/kg**	**1**
Benzo(b)fluoranthene	**205-99-2**	**8270C**	**2400**		**430**	**29**	**ug/kg**	**1**
Benzo(g,h,i)perylene	**191-24-2**	**8270C**	**860**		**430**	**30**	**ug/kg**	**1**
Benzo(k)fluoranthene	**207-08-9**	**8270C**	**910**		**430**	**36**	**ug/kg**	**1**
Benzoic acid	65-85-0	8270C	ND		11000	35	ug/kg	1
Benzyl alcohol	100-51-6	8270C	ND		430	220	ug/kg	1
4-Bromophenyl phenyl ether	101-55-3	8270C	ND		430	18	ug/kg	1
Butyl benzyl phthalate	85-68-7	8270C	ND		430	14	ug/kg	1
4-Chloro-3-methyl phenol	59-50-7	8270C	ND		430	24	ug/kg	1
4-Chloroaniline	106-47-8	8270C	ND		430	22	ug/kg	1
bis(2-Chloroethoxy)methane	111-91-1	8270C	ND		430	19	ug/kg	1
bis(2-Chloroethyl)ether	111-44-4	8270C	ND		430	18	ug/kg	1
bis(2-Chloroisopropyl)ether	108-60-1	8270C	ND		430	17	ug/kg	1
2-Chloronaphthalene	91-58-7	8270C	ND		430	21	ug/kg	1
2-Chlorophenol	95-57-8	8270C	ND		430	18	ug/kg	1
4-Chlorophenyl phenyl ether	7005-72-3	8270C	ND		430	17	ug/kg	1
Chrysene	**218-01-9**	**8270C**	**2100**		**430**	**14**	**ug/kg**	**1**
Di-n-butyl phthalate	**84-74-2**	**8270C**	**70**	**J**	**430**	**58**	**ug/kg**	**1**
Di-n-octylphthalate	117-84-0	8270C	ND		430	52	ug/kg	1
Dibenzo(a,h)anthracene	**53-70-3**	**8270C**	**310**	**J**	**430**	**29**	**ug/kg**	**1**
Dibenzofuran	**132-64-9**	**8270C**	**260**	**J**	**430**	**17**	**ug/kg**	**1**
1,2-Dichlorobenzene	95-50-1	8270C	ND		430	15	ug/kg	1
1,4-Dichlorobenzene	106-46-7	8270C	ND		430	19	ug/kg	1
3,3'-Dichlorobenzidine	91-94-1	8270C	ND		1100	75	ug/kg	1
2,4-Dichlorophenol	120-83-2	8270C	ND		430	18	ug/kg	1
Diethylphthalate	84-66-2	8270C	ND		430	17	ug/kg	1
Dimethyl phthalate	131-11-3	8270C	ND		430	12	ug/kg	1
2,4-Dimethylphenol	105-67-9	8270C	ND		430	23	ug/kg	1
4,6-Dinitro-2-methylphenol	534-52-1	8270C	ND		1100	50	ug/kg	1
2,4-Dinitrophenol	51-28-5	8270C	ND		1100	8.7	ug/kg	1
2,4-Dinitrotoluene	121-14-2	8270C	ND		430	32	ug/kg	1
2,6-Dinitrotoluene	606-20-2	8270C	ND		430	38	ug/kg	1
1,2-Diphenylhydrazine(as azobenzene)	103-33-3	8270C	ND		430	12	ug/kg	1
bis(2-Ethylhexyl)phthalate	117-81-7	8270C	ND		430	27	ug/kg	1
Fluoranthene	**206-44-0**	**8270C**	**4600**		**430**	**14**	**ug/kg**	**1**
Fluorene	**86-73-7**	**8270C**	**380**	**J**	**430**	**17**	**ug/kg**	**1**
Hexachlorobenzene	118-74-1	8270C	ND		430	18	ug/kg	1
Hexachlorobutadiene	87-68-3	8270C	ND		430	18	ug/kg	1
Hexachlorocyclopentadiene	77-47-4	8270C	ND		1100	84	ug/kg	1
Hexachloroethane	67-72-1	8270C	ND		430	21	ug/kg	1
Indeno(1,2,3-c,d)pyrene	**193-39-5**	**8270C**	**800**		**430**	**39**	**ug/kg**	**1**
Isophorone	78-59-1	8270C	ND		430	20	ug/kg	1

Footnote(s): *NC Cert #387, NELAC Cert #E87358

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
B = Detected in the method blank
J = Estimated result less than the PQL
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Semivolatile Organic Compounds by GC/MS

Client: **ARM Environmental Services, Inc.**
Laboratory ID: **GI17013-005**
Description: **MW-3 (5')**
Matrix: **Solid**
Date Sampled: **09/15/2005 1225**
% Solids: **75.9** **09/19/2005 1727**
Date Received: **09/16/2005**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3550B	8270C	1	09/21/2005 1644	DC	09/19/2005 1623	30815

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
2-Methylnaphthalene	**91-57-6**	**8270C**	**110**	**J**	**430**	**16**	**ug/kg**	**1**
2-Methylphenol	95-48-7	8270C	ND		430	24	ug/kg	1
3 & 4-Methylphenol	106-44-5	8270C	ND		880	41	ug/kg	1
N-Nitrosodi-n-propylamine	621-64-7	8270C	ND		430	22	ug/kg	1
N-Nitrosodiphenylamine/Diphenylamine	86-30-6	8270C	ND		430	15	ug/kg	1
Naphthalene	**91-20-3**	**8270C**	**230**	**J**	**430**	**18**	**ug/kg**	**1**
Nitrobenzene	98-95-3	8270C	ND		430	20	ug/kg	1
2-Nitrophenol	88-75-5	8270C	ND		430	47	ug/kg	1
4-Nitrophenol	100-02-7	8270C	ND		1100	190	ug/kg	1
Pentachlorophenol	87-86-5	8270C	ND		1100	46	ug/kg	1
Phenanthrene	**85-01-8**	**8270C**	**3700**		**430**	**18**	**ug/kg**	**1**
Phenol	108-95-2	8270C	ND		430	21	ug/kg	1
Pyrene	**129-00-0**	**8270C**	**3700**		**430**	**19**	**ug/kg**	**1**
1,2,4-Trichlorobenzene	120-82-1	8270C	ND		430	20	ug/kg	1
2,4,6-Trichlorophenol	88-06-2	8270C	ND		430	24	ug/kg	1
1,3-Dichlorobenzene	541-73-1	8270C	ND		430	17	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
2,4,6-Tribromophenol		109	30-130
2-Fluorobiphenyl		83	30-130
2-Fluorophenol		81	30-130
Nitrobenzene-d5		88	30-130
Phenol-d5		84	30-130
Terphenyl-d14		108	30-130

Footnote(s): *NC Cert #387, NELAC Cert #E87358

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Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"
N = Recovery is out of criteria

MADEP EPH

Client: **ARM Environmental Services, Inc.**
Laboratory ID: **GI17013-005**
Description: **MW-3 (5')**
Matrix: **Solid**
Date Sampled: **09/15/2005 1225**
% Solids: **75.9** **09/19/2005 1727**
Date Received: **09/16/2005**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1		MADEP-EPH-04-1	1	09/25/2005 1345	*		

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
C9 - C18 Aliphatics		**MADEP-EPH-04-1**	**100**		**13**	**3.8**	**mg/kg**	**1**
C19 - C36 Aliphatics		**MADEP-EPH-04-1**	**11**	**J**	**13**	**4.0**	**mg/kg**	**1**
C11 - C22 Aromatics		**MADEP-EPH-04-1**	**68**		**13**	**4.5**	**mg/kg**	**1**

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
2-Bromonaphthalene		64	40-140
2-Fluorobiphenyl		67	40-140
C - 35		49	40-140
o - Terphenyl		92	40-140

Footnote(s): *NC Cert #387, NELAC Cert #E87358

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N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

MADEP VPH

Client: **ARM Environmental Services, Inc.**
Laboratory ID: **GI17013-005**
Description: **MW-3 (5')**
Matrix: **Solid**
Date Sampled: **09/15/2005 1225**
% Solids: **75.9** **09/19/2005 1727**
Date Received: **09/16/2005**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1		MADEP-VPH-04-1.1	1	09/25/2005 1715	*		

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
C5 - C8 Aliphatics		**MADEP-VPH-04-1.1**	**5.3**	**J**	**6.6**	**0.14**	**mg/kg**	**1**
C9 - C12 Aliphatics		**MADEP-VPH-04-1.1**	**14**		**6.6**	**0.27**	**mg/kg**	**1**
C9 - C10 Aromatics		**MADEP-VPH-04-1.1**	**10**		**6.6**	**0.016**	**mg/kg**	**1**

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
2,5-Dibromotoluene (FID)	N	61	70-130
2,5-Dibromotoluene (PID)		73	60-140

Footnote(s): *NC Cert #387, NELAC Cert #E87358

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N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Volatile Organic Compounds by GC/MS

Client: **ARM Environmental Services, Inc.** Laboratory ID: **GI17013-006**
Description: **MW-3 (10')** Matrix: **Solid**
Date Sampled: **09/15/2005 1310** % Solids: **76.5** **09/19/2005 1727**
Date Received: **09/16/2005**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5035	8260B	1	09/26/2005 1657	RED		31082

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Acetone	**67-64-1**	**8260B**	**59**		**20**	**1.8**	**ug/kg**	**1**
Benzene	71-43-2	8260B	ND		5.1	1.1	ug/kg	1
Bromobenzene	108-86-1	8260B	ND		5.1	0.72	ug/kg	1
Bromochloromethane	74-97-5	8260B	ND		5.1	1.0	ug/kg	1
Bromodichloromethane	75-27-4	8260B	ND		5.1	1.1	ug/kg	1
Bromoform	75-25-2	8260B	ND		5.1	0.72	ug/kg	1
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		5.1	1.8	ug/kg	1
2-Butanone (MEK)	78-93-3	8260B	ND		10	2.5	ug/kg	1
n-Butylbenzene	**104-51-8**	**8260B**	**180**		**5.1**	**1.0**	**ug/kg**	**1**
sec-Butylbenzene	**135-98-8**	**8260B**	**200**		**5.1**	**1.0**	**ug/kg**	**1**
tert-Butylbenzene	**98-06-6**	**8260B**	**29**		**5.1**	**1.0**	**ug/kg**	**1**
Carbon tetrachloride	56-23-5	8260B	ND		5.1	1.8	ug/kg	1
Chlorobenzene	108-90-7	8260B	ND		5.1	1.5	ug/kg	1
Chloroethane	75-00-3	8260B	ND		5.1	1.3	ug/kg	1
Chloroform	67-66-3	8260B	ND		5.1	0.85	ug/kg	1
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		5.1	1.0	ug/kg	1
2-Chlorotoluene	95-49-8	8260B	ND		5.1	2.8	ug/kg	1
4-Chlorotoluene	106-43-4	8260B	ND		5.1	2.0	ug/kg	1
Dibromochloromethane	124-48-1	8260B	ND		5.1	0.65	ug/kg	1
1,2-Dibromoethane (EDB)	106-93-4	8260B	ND		5.1	0.87	ug/kg	1
1,2-Dichlorobenzene	95-50-1	8260B	ND		5.1	0.96	ug/kg	1
1,3-Dichlorobenzene	541-73-1	8260B	ND		5.1	1.3	ug/kg	1
1,4-Dichlorobenzene	106-46-7	8260B	ND		5.1	1.5	ug/kg	1
Dichlorodifluoromethane	75-71-8	8260B	ND		5.1	1.6	ug/kg	1
1,1-Dichloroethane	75-34-3	8260B	ND		5.1	0.75	ug/kg	1
1,2-Dichloroethane	107-06-2	8260B	ND		5.1	1.0	ug/kg	1
1,1-Dichloroethene	75-35-4	8260B	ND		5.1	1.7	ug/kg	1
cis-1,2-Dichloroethene	156-59-2	8260B	ND		5.1	0.78	ug/kg	1
trans-1,2-Dichloroethene	156-60-5	8260B	ND		5.1	1.5	ug/kg	1
1,2-Dichloropropane	78-87-5	8260B	ND		5.1	0.94	ug/kg	1
1,3-Dichloropropane	142-28-9	8260B	ND		5.1	1.0	ug/kg	1
2,2-Dichloropropane	594-20-7	8260B	ND		5.1	1.1	ug/kg	1
1,1-Dichloropropene	563-58-6	8260B	ND		5.1	1.5	ug/kg	1
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		5.1	0.70	ug/kg	1
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		5.1	0.84	ug/kg	1
Diisopropyl ether (IPE)	**108-20-3**	**8260B**	**1.8**	**J**	**5.1**	**0.32**	**ug/kg**	**1**
Ethylbenzene	**100-41-4**	**8260B**	**6.5**		**5.1**	**1.1**	**ug/kg**	**1**
2-Hexanone	591-78-6	8260B	ND		10	1.3	ug/kg	1
Isopropylbenzene	**98-82-8**	**8260B**	**58**		**5.1**	**0.82**	**ug/kg**	**1**
p-Isopropyltoluene	99-87-6	8260B	ND		5.1	1.4	ug/kg	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		5.1	0.41	ug/kg	1
4-Methyl-2-pentanone	108-10-1	8260B	ND		10	1.5	ug/kg	1
Methylene chloride	75-09-2	8260B	ND		5.1	2.7	ug/kg	1
Naphthalene	**91-20-3**	**8260B**	**230**		**5.1**	**1.2**	**ug/kg**	**1**
n-Propylbenzene	**103-65-1**	**8260B**	**58**		**5.1**	**1.0**	**ug/kg**	**1**
Styrene	100-42-5	8260B	ND		5.1	1.1	ug/kg	1

Footnote(s): *NC Cert #387, NELAC Cert #E87358

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E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Volatile Organic Compounds by GC/MS

Client: **ARM Environmental Services, Inc.**
Laboratory ID: **GI17013-006**
Description: **MW-3 (10')**
Matrix: **Solid**
Date Sampled: **09/15/2005 1310**
% Solids: **76.5** **09/19/2005 1727**
Date Received: **09/16/2005**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5035	8260B	1	09/26/2005 1657	RED		31082

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		5.1	0.48	ug/kg	1
Tetrachloroethene	127-18-4	8260B	ND		5.1	2.4	ug/kg	1
Toluene	108-88-3	8260B	ND		5.1	1.4	ug/kg	1
1,2,3-Trichlorobenzene	87-61-6	8260B	ND		5.1	0.93	ug/kg	1
1,2,4-Trichlorobenzene	120-82-1	8260B	ND		5.1	1.0	ug/kg	1
1,1,1-Trichloroethane	71-55-6	8260B	ND		5.1	0.87	ug/kg	1
1,1,2-Trichloroethane	79-00-5	8260B	ND		5.1	0.81	ug/kg	1
Trichloroethene	79-01-6	8260B	ND		5.1	2.0	ug/kg	1
Trichlorofluoromethane	75-69-4	8260B	ND		5.1	1.5	ug/kg	1
1,2,3-Trichloropropane	96-18-4	8260B	ND		5.1	0.87	ug/kg	1
1,2,4-Trimethylbenzene	**95-63-6**	**8260B**	**3.3**	**J**	**5.1**	**1.4**	**ug/kg**	**1**
1,3,5-Trimethylbenzene	108-67-8	8260B	ND		5.1	1.5	ug/kg	1
Vinyl acetate	108-05-4	8260B	ND		5.1	0.93	ug/kg	1
Vinyl chloride	75-01-4	8260B	ND		5.1	0.88	ug/kg	1
Xylenes (total)	**1330-20-7**	**8260B**	**5.5**		**5.1**	**3.0**	**ug/kg**	**1**

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		97	53-142
Bromofluorobenzene		106	47-138
Toluene-d8		90	68-124

Footnote(s): *NC Cert #387, NELAC Cert #E87358

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ND = Not detected at or above the PQL
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J = Estimated result less than the PQL
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria
Where applicable, all soil sample analysis *are reported on a dry* weight basis unless flagged with a "W"

Semivolatile Organic Compounds by GC/MS

Client: **ARM Environmental Services, Inc.** Laboratory ID: **GI17013-006**
Description: **MW-3 (10')** Matrix: **Solid**
Date Sampled: **09/15/2005 1310** % Solids: **76.5** **09/19/2005 1727**
Date Received: **09/16/2005**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3550B	8270C	1	09/21/2005 1713	DC	09/19/2005 1623	30815

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Acenaphthene	83-32-9	8270C	ND		430	13	ug/kg	1
Acenaphthylene	208-96-8	8270C	ND		430	17	ug/kg	1
Anthracene	120-12-7	8270C	ND		430	19	ug/kg	1
Benzo(a)anthracene	**56-55-3**	**8270C**	**570**		**430**	**14**	**ug/kg**	**1**
Benzo(a)pyrene	**50-32-8**	**8270C**	**470**		**430**	**32**	**ug/kg**	**1**
Benzo(b)fluoranthene	**205-99-2**	**8270C**	**700**		**430**	**29**	**ug/kg**	**1**
Benzo(g,h,i)perylene	**191-24-2**	**8270C**	**300**	**J**	**430**	**29**	**ug/kg**	**1**
Benzo(k)fluoranthene	**207-08-9**	**8270C**	**290**	**J**	**430**	**36**	**ug/kg**	**1**
Benzoic acid	65-85-0	8270C	ND		11000	35	ug/kg	1
Benzyl alcohol	100-51-6	8270C	ND		430	220	ug/kg	1
4-Bromophenyl phenyl ether	101-55-3	8270C	ND		430	18	ug/kg	1
Butyl benzyl phthalate	85-68-7	8270C	ND		430	14	ug/kg	1
4-Chloro-3-methyl phenol	59-50-7	8270C	ND		430	24	ug/kg	1
4-Chloroaniline	106-47-8	8270C	ND		430	22	ug/kg	1
bis(2-Chloroethoxy)methane	111-91-1	8270C	ND		430	19	ug/kg	1
bis(2-Chloroethyl)ether	111-44-4	8270C	ND		430	18	ug/kg	1
bis(2-Chloroisopropyl)ether	108-60-1	8270C	ND		430	16	ug/kg	1
2-Chloronaphthalene	91-58-7	8270C	ND		430	21	ug/kg	1
2-Chlorophenol	95-57-8	8270C	ND		430	18	ug/kg	1
4-Chlorophenyl phenyl ether	7005-72-3	8270C	ND		430	17	ug/kg	1
Chrysene	**218-01-9**	**8270C**	**600**		**430**	**13**	**ug/kg**	**1**
Di-n-butyl phthalate	84-74-2	8270C	ND		430	57	ug/kg	1
Di-n-octylphthalate	117-84-0	8270C	ND		430	52	ug/kg	1
Dibenzo(a,h)anthracene	53-70-3	8270C	ND		430	29	ug/kg	1
Dibenzofuran	132-64-9	8270C	ND		430	17	ug/kg	1
1,2-Dichlorobenzene	95-50-1	8270C	ND		430	15	ug/kg	1
1,4-Dichlorobenzene	106-46-7	8270C	ND		430	19	ug/kg	1
3,3'-Dichlorobenzidine	91-94-1	8270C	ND		1100	74	ug/kg	1
2,4-Dichlorophenol	120-83-2	8270C	ND		430	18	ug/kg	1
Diethylphthalate	84-66-2	8270C	ND		430	16	ug/kg	1
Dimethyl phthalate	131-11-3	8270C	ND		430	12	ug/kg	1
2,4-Dimethylphenol	105-67-9	8270C	ND		430	22	ug/kg	1
4,6-Dinitro-2-methylphenol	534-52-1	8270C	ND		1100	50	ug/kg	1
2,4-Dinitrophenol	51-28-5	8270C	ND		1100	8.6	ug/kg	1
2,4-Dinitrotoluene	121-14-2	8270C	ND		430	32	ug/kg	1
2,6-Dinitrotoluene	606-20-2	8270C	ND		430	38	ug/kg	1
1,2-Diphenylhydrazine(as azobenzene)	103-33-3	8270C	ND		430	12	ug/kg	1
bis(2-Ethylhexyl)phthalate	117-81-7	8270C	ND		430	27	ug/kg	1
Fluoranthene	**206-44-0**	**8270C**	**1200**		**430**	**14**	**ug/kg**	**1**
Fluorene	**86-73-7**	**8270C**	**1100**		**430**	**17**	**ug/kg**	**1**
Hexachlorobenzene	118-74-1	8270C	ND		430	17	ug/kg	1
Hexachlorobutadiene	87-68-3	8270C	ND		430	18	ug/kg	1
Hexachlorocyclopentadiene	77-47-4	8270C	ND		1100	84	ug/kg	1
Hexachloroethane	67-72-1	8270C	ND		430	21	ug/kg	1
Indeno(1,2,3-c,d)pyrene	**193-39-5**	**8270C**	**260**	**J**	**430**	**39**	**ug/kg**	**1**
Isophorone	78-59-1	8270C	ND		430	20	ug/kg	1

Footnote(s): *NC Cert #387, NELAC Cert #E87358

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
B = Detected in the method blank
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E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Semivolatile Organic Compounds by GC/MS

Client: **ARM Environmental Services, Inc.**
Laboratory ID: **GI17013-006**
Description: **MW-3 (10')**
Matrix: **Solid**
Date Sampled: **09/15/2005 1310**
% Solids: **76.5** **09/19/2005 1727**
Date Received: **09/16/2005**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3550B	8270C	1	09/21/2005 1713	DC	09/19/2005 1623	30815

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
2-Methylnaphthalene	**91-57-6**	**8270C**	**5900**		**430**	**16**	**ug/kg**	**1**
2-Methylphenol	95-48-7	8270C	ND		430	24	ug/kg	1
3 & 4-Methylphenol	106-44-5	8270C	ND		880	41	ug/kg	1
N-Nitrosodi-n-propylamine	621-64-7	8270C	ND		430	22	ug/kg	1
N-Nitrosodiphenylamine/Diphenylamine	86-30-6	8270C	ND		430	14	ug/kg	1
Naphthalene	**91-20-3**	**8270C**	**850**		**430**	**18**	**ug/kg**	**1**
Nitrobenzene	98-95-3	8270C	ND		430	20	ug/kg	1
2-Nitrophenol	88-75-5	8270C	ND		430	46	ug/kg	1
4-Nitrophenol	100-02-7	8270C	ND		1100	190	ug/kg	1
Pentachlorophenol	87-86-5	8270C	ND		1100	46	ug/kg	1
Phenanthrene	**85-01-8**	**8270C**	**3100**		**430**	**18**	**ug/kg**	**1**
Phenol	108-95-2	8270C	ND		430	21	ug/kg	1
Pyrene	**129-00-0**	**8270C**	**1200**		**430**	**19**	**ug/kg**	**1**
1,2,4-Trichlorobenzene	120-82-1	8270C	ND		430	20	ug/kg	1
2,4,6-Trichlorophenol	88-06-2	8270C	ND		430	24	ug/kg	1
1,3-Dichlorobenzene	541-73-1	8270C	ND		430	17	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
2,4,6-Tribromophenol		97	30-130
2-Fluorobiphenyl		69	30-130
2-Fluorophenol		70	30-130
Nitrobenzene-d5		78	30-130
Phenol-d5		72	30-130
Terphenyl-d14		84	30-130

Footnote(s): *NC Cert #387, NELAC Cert #E87358

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MADEP EPH

Client: **ARM Environmental Services, Inc.**
Laboratory ID: **GI17013-006**
Description: **MW-3 (10')**
Matrix: **Solid**
Date Sampled: **09/15/2005 1310**
% Solids: **76.5** **09/19/2005 1727**
Date Received: **09/16/2005**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1		MADEP-EPH-04-1	1		*		

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
C9 - C18 Aliphatics		**MADEP-EPH-04-1**	**690**		**13**	**3.9**	**mg/kg**	**1**
C19 - C36 Aliphatics		**MADEP-EPH-04-1**	**92**		**13**	**4.1**	**mg/kg**	**1**
C11 - C22 Aromatics		**MADEP-EPH-04-1**	**580**		**13**	**4.5**	**mg/kg**	**1**

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
2-Bromonaphthalene		110	40-140
2-Fluorobiphenyl		68	40-140
C - 35	N	32	40-140
o - Terphenyl	N	283	40-140

Footnote(s): *NC Cert #387, NELAC Cert #E87358

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P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

MADEP VPH

Client: **ARM Environmental Services, Inc.**
Laboratory ID: **GI17013-006**
Description: **MW-3 (10')**
Matrix: **Solid**
Date Sampled: **09/15/2005 1310**
% Solids: **76.5** **09/19/2005 1727**
Date Received: **09/16/2005**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1		MADEP-VPH-04-1.1	1		*		

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
C5 - C8 Aliphatics		**MADEP-VPH-04-1.1**	**9.2**		**6.5**	**0.14**	**mg/kg**	**1**
C9 - C12 Aliphatics		**MADEP-VPH-04-1.1**	**26**		**6.5**	**0.27**	**mg/kg**	**1**
C9 - C10 Aromatics		**MADEP-VPH-04-1.1**	**28**		**6.5**	**0.016**	**mg/kg**	**1**

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
2,5-Dibromotoluene (FID)	N	48	70-130
2,5-Dibromotoluene (PID)		80	60-140

Footnote(s): *NC Cert #387, NELAC Cert #E87358

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Volatile Organic Compounds by GC/MS

Client: **ARM Environmental Services, Inc.**
Laboratory ID: **GI17013-007**
Description: **MW-3 (15')**
Matrix: **Solid**
Date Sampled: **09/15/2005 1325**
% Solids: **91.4** **09/19/2005 1727**
Date Received: **09/16/2005**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5035	8260B	50	09/27/2005 1603	RED		31115

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Acetone	67-64-1	8260B	ND		860	78	ug/kg	1
Benzene	71-43-2	8260B	ND		220	47	ug/kg	1
Bromobenzene	108-86-1	8260B	ND		220	30	ug/kg	1
Bromochloromethane	74-97-5	8260B	ND		220	43	ug/kg	1
Bromodichloromethane	75-27-4	8260B	ND		220	47	ug/kg	1
Bromoform	75-25-2	8260B	ND		220	30	ug/kg	1
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		220	78	ug/kg	1
2-Butanone (MEK)	78-93-3	8260B	ND		430	100	ug/kg	1
n-Butylbenzene	**104-51-8**	**8260B**	**310**		**220**	**43**	**ug/kg**	**1**
sec-Butylbenzene	**135-98-8**	**8260B**	**170**	**J**	**220**	**43**	**ug/kg**	**1**
tert-Butylbenzene	98-06-6	8260B	ND		220	43	ug/kg	1
Carbon tetrachloride	56-23-5	8260B	ND		220	78	ug/kg	1
Chlorobenzene	108-90-7	8260B	ND		220	65	ug/kg	1
Chloroethane	75-00-3	8260B	ND		220	56	ug/kg	1
Chloroform	67-66-3	8260B	ND		220	36	ug/kg	1
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		220	43	ug/kg	1
2-Chlorotoluene	95-49-8	8260B	ND		220	120	ug/kg	1
4-Chlorotoluene	106-43-4	8260B	ND		220	82	ug/kg	1
Dibromochloromethane	124-48-1	8260B	ND		220	27	ug/kg	1
1,2-Dibromoethane (EDB)	106-93-4	8260B	ND		220	37	ug/kg	1
1,2-Dichlorobenzene	95-50-1	8260B	ND		220	40	ug/kg	1
1,3-Dichlorobenzene	541-73-1	8260B	ND		220	56	ug/kg	1
1,4-Dichlorobenzene	106-46-7	8260B	ND		220	65	ug/kg	1
Dichlorodifluoromethane	75-71-8	8260B	ND		220	69	ug/kg	1
1,1-Dichloroethane	75-34-3	8260B	ND		220	31	ug/kg	1
1,2-Dichloroethane	107-06-2	8260B	ND		220	43	ug/kg	1
1,1-Dichloroethene	75-35-4	8260B	ND		220	73	ug/kg	1
cis-1,2-Dichloroethene	156-59-2	8260B	ND		220	33	ug/kg	1
trans-1,2-Dichloroethene	156-60-5	8260B	ND		220	65	ug/kg	1
1,2-Dichloropropane	78-87-5	8260B	ND		220	39	ug/kg	1
1,3-Dichloropropane	142-28-9	8260B	ND		220	43	ug/kg	1
2,2-Dichloropropane	594-20-7	8260B	ND		220	47	ug/kg	1
1,1-Dichloropropene	563-58-6	8260B	ND		220	65	ug/kg	1
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		220	29	ug/kg	1
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		220	35	ug/kg	1
Diisopropyl ether (IPE)	108-20-3	8260B	ND		220	13	ug/kg	1
Ethylbenzene	100-41-4	8260B	ND		220	47	ug/kg	1
2-Hexanone	591-78-6	8260B	ND		430	56	ug/kg	1
Isopropylbenzene	98-82-8	8260B	ND		220	34	ug/kg	1
p-Isopropyltoluene	99-87-6	8260B	ND		220	60	ug/kg	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		220	17	ug/kg	1
4-Methyl-2-pentanone	108-10-1	8260B	ND		430	65	ug/kg	1
Methylene chloride	75-09-2	8260B	ND		220	110	ug/kg	1
Naphthalene	**91-20-3**	**8260B**	**720**	**B**	**220**	**52**	**ug/kg**	**1**
n-Propylbenzene	103-65-1	8260B	ND		220	43	ug/kg	1
Styrene	100-42-5	8260B	ND		220	47	ug/kg	1

Footnote(s): *NC Cert #387, NELAC Cert #E87358

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Volatile Organic Compounds by GC/MS

Client: **ARM Environmental Services, Inc.**
Laboratory ID: **GI17013-007**
Description: **MW-3 (15')**
Matrix: **Solid**
Date Sampled: **09/15/2005 1325**
% Solids: **91.4** **09/19/2005 1727**
Date Received: **09/16/2005**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5035	8260B	50	09/27/2005 1603	RED		31115

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		220	20	ug/kg	1
Tetrachloroethene	127-18-4	8260B	ND		220	99	ug/kg	1
Toluene	108-88-3	8260B	ND		220	60	ug/kg	1
1,2,3-Trichlorobenzene	87-61-6	8260B	ND		220	39	ug/kg	1
1,2,4-Trichlorobenzene	120-82-1	8260B	ND		220	43	ug/kg	1
1,1,1-Trichloroethane	71-55-6	8260B	ND		220	37	ug/kg	1
1,1,2-Trichloroethane	79-00-5	8260B	ND		220	34	ug/kg	1
Trichloroethene	79-01-6	8260B	ND		220	82	ug/kg	1
Trichlorofluoromethane	75-69-4	8260B	ND		220	65	ug/kg	1
1,2,3-Trichloropropane	96-18-4	8260B	ND		220	37	ug/kg	1
1,2,4-Trimethylbenzene	**95-63-6**	**8260B**	**620**		**220**	**60**	**ug/kg**	**1**
1,3,5-Trimethylbenzene	**108-67-8**	**8260B**	**180**	**J**	**220**	**65**	**ug/kg**	**1**
Vinyl acetate	108-05-4	8260B	ND		220	39	ug/kg	1
Vinyl chloride	75-01-4	8260B	ND		220	37	ug/kg	1
Xylenes (total)	**1330-20-7**	**8260B**	**180**	**J**	**220**	**120**	**ug/kg**	**1**

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		109	53-142
Bromofluorobenzene		117	47-138
Toluene-d8		116	68-124

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Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Semivolatile Organic Compounds by GC/MS

Client: **ARM Environmental Services, Inc.**
Laboratory ID: **GI17013-007**
Description: **MW-3 (15')**
Matrix: **Solid**
Date Sampled: **09/15/2005 1325**
% Solids: **91.4** **09/19/2005 1727**
Date Received: **09/16/2005**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3550B	8270C	5	09/21/2005 1741	DC	09/19/2005 1623	30815

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Acenaphthene	83-32-9	8270C	ND		1800	55	ug/kg	1
Acenaphthylene	208-96-8	8270C	ND		1800	72	ug/kg	1
Anthracene	**120-12-7**	**8270C**	**1100**	**J**	**1800**	**80**	**ug/kg**	**1**
Benzo(a)anthracene	**56-55-3**	**8270C**	**4900**		**1800**	**60**	**ug/kg**	**1**
Benzo(a)pyrene	**50-32-8**	**8270C**	**4000**		**1800**	**130**	**ug/kg**	**1**
Benzo(b)fluoranthene	**205-99-2**	**8270C**	**5800**		**1800**	**120**	**ug/kg**	**1**
Benzo(g,h,i)perylene	**191-24-2**	**8270C**	**2600**		**1800**	**120**	**ug/kg**	**1**
Benzo(k)fluoranthene	**207-08-9**	**8270C**	**2600**		**1800**	**150**	**ug/kg**	**1**
Benzoic acid	65-85-0	8270C	ND		45000	150	ug/kg	1
Benzyl alcohol	100-51-6	8270C	ND		1800	930	ug/kg	1
4-Bromophenyl phenyl ether	101-55-3	8270C	ND		1800	76	ug/kg	1
Butyl benzyl phthalate	85-68-7	8270C	ND		1800	58	ug/kg	1
4-Chloro-3-methyl phenol	59-50-7	8270C	ND		1800	100	ug/kg	1
4-Chloroaniline	106-47-8	8270C	ND		1800	94	ug/kg	1
bis(2-Chloroethoxy)methane	111-91-1	8270C	ND		1800	80	ug/kg	1
bis(2-Chloroethyl)ether	111-44-4	8270C	ND		1800	76	ug/kg	1
bis(2-Chloroisopropyl)ether	108-60-1	8270C	ND		1800	69	ug/kg	1
2-Chloronaphthalene	91-58-7	8270C	ND		1800	86	ug/kg	1
2-Chlorophenol	95-57-8	8270C	ND		1800	76	ug/kg	1
4-Chlorophenyl phenyl ether	7005-72-3	8270C	ND		1800	72	ug/kg	1
Chrysene	**218-01-9**	**8270C**	**5400**		**1800**	**56**	**ug/kg**	**1**
Di-n-butyl phthalate	84-74-2	8270C	ND		1800	240	ug/kg	1
Di-n-octylphthalate	117-84-0	8270C	ND		1800	220	ug/kg	1
Dibenzo(a,h)anthracene	53-70-3	8270C	ND		1800	120	ug/kg	1
Dibenzofuran	132-64-9	8270C	ND		1800	71	ug/kg	1
1,2-Dichlorobenzene	95-50-1	8270C	ND		1800	62	ug/kg	1
1,4-Dichlorobenzene	106-46-7	8270C	ND		1800	79	ug/kg	1
3,3'-Dichlorobenzidine	91-94-1	8270C	ND		4500	310	ug/kg	1
2,4-Dichlorophenol	120-83-2	8270C	ND		1800	73	ug/kg	1
Diethylphthalate	84-66-2	8270C	ND		1800	69	ug/kg	1
Dimethyl phthalate	131-11-3	8270C	ND		1800	51	ug/kg	1
2,4-Dimethylphenol	105-67-9	8270C	ND		1800	94	ug/kg	1
4,6-Dinitro-2-methylphenol	534-52-1	8270C	ND		4500	210	ug/kg	1
2,4-Dinitrophenol	51-28-5	8270C	ND		4500	36	ug/kg	1
2,4-Dinitrotoluene	121-14-2	8270C	ND		1800	130	ug/kg	1
2,6-Dinitrotoluene	606-20-2	8270C	ND		1800	160	ug/kg	1
1,2-Diphenylhydrazine(as azobenzene)	103-33-3	8270C	ND		1800	52	ug/kg	1
bis(2-Ethylhexyl)phthalate	117-81-7	8270C	ND		1800	110	ug/kg	1
Fluoranthene	**206-44-0**	**8270C**	**10000**		**1800**	**57**	**ug/kg**	**1**
Fluorene	**86-73-7**	**8270C**	**1200**	**J**	**1800**	**69**	**ug/kg**	**1**
Hexachlorobenzene	118-74-1	8270C	ND		1800	73	ug/kg	1
Hexachlorobutadiene	87-68-3	8270C	ND		1800	74	ug/kg	1
Hexachlorocyclopentadiene	77-47-4	8270C	ND		4500	350	ug/kg	1
Hexachloroethane	67-72-1	8270C	ND		1800	89	ug/kg	1
Indeno(1,2,3-c,d)pyrene	**193-39-5**	**8270C**	**2400**		**1800**	**160**	**ug/kg**	**1**
Isophorone	78-59-1	8270C	ND		1800	85	ug/kg	1

Footnote(s): *NC Cert #387, NELAC Cert #E87358

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E = Quantitation of compound exceeded the calibration range
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N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Semivolatile Organic Compounds by GC/MS

Client: **ARM Environmental Services, Inc.**
Laboratory ID: **GI17013-007**
Description: **MW-3 (15')**
Matrix: **Solid**
Date Sampled: **09/15/2005 1325**
% Solids: **91.4** **09/19/2005 1727**
Date Received: **09/16/2005**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3550B	8270C	5	09/21/2005 1741	DC	09/19/2005 1623	30815

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
2-Methylnaphthalene	**91-57-6**	**8270C**	**4600**		**1800**	**65**	**ug/kg**	**1**
2-Methylphenol	95-48-7	8270C	ND		1800	100	ug/kg	1
3 & 4-Methylphenol	106-44-5	8270C	ND		3700	170	ug/kg	1
N-Nitrosodi-n-propylamine	621-64-7	8270C	ND		1800	92	ug/kg	1
N-Nitrosodiphenylamine/Diphenylamine	86-30-6	8270C	ND		1800	61	ug/kg	1
Naphthalene	**91-20-3**	**8270C**	**1400**	**J**	**1800**	**76**	**ug/kg**	**1**
Nitrobenzene	98-95-3	8270C	ND		1800	83	ug/kg	1
2-Nitrophenol	88-75-5	8270C	ND		1800	190	ug/kg	1
4-Nitrophenol	100-02-7	8270C	ND		4500	780	ug/kg	1
Pentachlorophenol	87-86-5	8270C	ND		4500	190	ug/kg	1
Phenanthrene	**85-01-8**	**8270C**	**7500**		**1800**	**73**	**ug/kg**	**1**
Phenol	108-95-2	8270C	ND		1800	86	ug/kg	1
Pyrene	**129-00-0**	**8270C**	**8300**		**1800**	**78**	**ug/kg**	**1**
1,2,4-Trichlorobenzene	120-82-1	8270C	ND		1800	83	ug/kg	1
2,4,6-Trichlorophenol	88-06-2	8270C	ND		1800	100	ug/kg	1
1,3-Dichlorobenzene	541-73-1	8270C	ND		1800	69	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
2,4,6-Tribromophenol		86	30-130
2-Fluorobiphenyl		76	30-130
2-Fluorophenol		64	30-130
Nitrobenzene-d5		73	30-130
Phenol-d5		68	30-130
Terphenyl-d14		94	30-130

Footnote(s): *NC Cert #387, NELAC Cert #E87358

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
B = Detected in the method blank
J = Estimated result less than the PQL
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

MADEP EPH

Client: **ARM Environmental Services, Inc.**
Laboratory ID: **GI17013-007**
Description: **MW-3 (15')**
Matrix: **Solid**
Date Sampled: **09/15/2005 1325**
% Solids: **91.4** **09/19/2005 1727**
Date Received: **09/16/2005**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1		MADEP-EPH-04-1	1		*		

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
C9 - C18 Aliphatics		**MADEP-EPH-04-1**	**120**		**11**	**3.3**	**mg/kg**	**1**
C19 - C36 Aliphatics		**MADEP-EPH-04-1**	**18**		**11**	**3.5**	**mg/kg**	**1**
C11 - C22 Aromatics		**MADEP-EPH-04-1**	**140**		**11**	**3.9**	**mg/kg**	**1**

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
2-Bromonaphthalene		73	40-140
2-Fluorobiphenyl		67	40-140
C - 35		41	40-140
o - Terphenyl	N	155	40-140

Footnote(s): *NC Cert #387, NELAC Cert #E87358

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"
B = Detected in the method blank
J = Estimated result less than the PQL
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria

MADEP VPH

Client: **ARM Environmental Services, Inc.**	Laboratory ID: **GI17013-007**
Description: **MW-3 (15')**	Matrix: **Solid**
Date Sampled: **09/15/2005 1325**	% Solids: **91.4** **09/19/2005 1727**
Date Received: **09/16/2005**	

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1		MADEP-VPH-04-1.1	1		*		

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
C5 - C8 Aliphatics		**MADEP-VPH-04-1.1**	**5.6**		**5.5**	**0.12**	**mg/kg**	**1**
C9 - C12 Aliphatics		**MADEP-VPH-04-1.1**	**15**		**5.5**	**0.22**	**mg/kg**	**1**
C9 - C10 Aromatics		**MADEP-VPH-04-1.1**	**14**		**5.5**	**0.013**	**mg/kg**	**1**

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
2,5-Dibromotoluene (FID)		78	70-130
2,5-Dibromotoluene (PID)		86	60-140

Footnote(s): *NC Cert #387, NELAC Cert #E87358

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

B = Detected in the method blank
J = Estimated result less than the PQL

E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
N = *Recovery is out of criteria*

Subcontracted Data

TestAmerica
ANALYTICAL TESTING CORPORATION
2960 Foster Creighton Road Nashville, TN 37204 * 800-765-0980 * Fax 615-726-3404

September 30, 2005

Client: Shealy Environmental Services (8677)
106 Vantage Point Drive
Cayce, SC 29033
Attn: Alison Edwards

Work Order: NOI1819
Project Name: Shealy Environmental Services- NC
Project Nbr: Vicker Realty
Date Received: 09/17/05

SAMPLE IDENTIFICATION	LAB NUMBER	COLLECTION DATE AND TIME
MW-1 (5')	NOI1819-01	09/15/05 10:40
MW-1 (10')	NOI1819-02	09/15/05 10:55
MW-2 (5')	NOI1819-03	09/15/05 11:40
MW-2 (10')	NOI1819-04	09/15/05 11:50
MW-3 (5')	NOI1819-05	09/15/05 12:25
MW-3 (10')	NOI1819-06	09/15/05 13:10
MW-3 (15')	NOI1819-07	09/15/05 13:25

An executed copy of the chain of custody, the project quality control data, and the sample receipt form are also included as an addendum to this report. If you have any questions relating to this analytical report, please contact your Laboratory Project Manager at 1-800-765-0980. Any opinions, if expressed, are outside the scope of the Laboratory's accredidation.

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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:

Jessica Vickers

Jessica Vickers
Senior Project Manager

TestAmerica
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Client	Shealy Environmental Services (8677)	Work Order:	NOI1819
	106 Vantage Point Drive	Project Name:	Shealy Environmental Services- NC
	Cayce, SC 29033	Project Number:	Vicker Realty
Attn	Alison Edwards	Received:	09/17/05 08:00

ANALYTICAL REPORT

Analyte	Result	Flag	Units	MDL	MRL	Dilution Factor	Analysis Date/Time	Method	Analyst	Batch
Sample ID: NOI1819-01 (MW-1 (5') - Soil) Sampled: 09/15/05 10:40										
General Chemistry Parameters										
% Dry Solids	84.8		%	1.00	1.00	1	09/21/05 14:47	CLP	WKT	5092983
Extractable Petroleum Hydrocarbons										
C9 - C18 Aliphatic Hydrocarbons	165		mg/kg	22.9	104	10	09/25/05 19:32	MADEP EPH	lrw	5092782
C19 - C36 Aliphatic Hydrocarbons	36.3		mg/kg	3.02	10.4	1	09/25/05 13:35	MADEP EPH	lrw	5092782
C11 - C22 Aromatic Hydrocarbons, Unadjust	148		mg/kg	6.12	20.8	2	09/25/05 20:00	MADEP EPH	lrw	5092782
Surrogate: 1-Chlorooctadecane (40-140%)	*61 %*		-	-	*1*		*09/25/05 13:35*	*MADEP EPH*	*lrw*	*5092782*
Surrogate: 1-Chlorooctadecane (40-140%)	*	*Z3*	-	-	*10*		*09/25/05 19:32*	*MADEP EPH*	*lrw*	*5092782*
Surrogate: o-Terphenyl (40-140%)	*116 %*		-	-	*2*		*09/25/05 20:00*	*MADEP EPH*	*lrw*	*5092782*
Surrogate: 2-Fluorobiphenyl (40-140%)	*71 %*		-	-	*2*		*09/25/05 20:00*	*MADEP EPH*	*lrw*	*5092782*
Surrogate: 2-Bromonaphthalene (40-140%)	*79 %*		-	-	*2*		*09/25/05 20:00*	*MADEP EPH*	*lrw*	*5092782*
Purgeable Petroleum Hydrocarbons										
C5 - C8 Aliphatic Hydrocarbons, Unadjusted	36.2		mg/kg	0.150	5.00	50	09/25/05 20:38	MADEP VPH	rb	5093751
C9 - C10 Aromatic Hydrocarbons	ND		mg/kg	250000	500000	5000	09/28/05 12:25	MADEP VPH	do	5094665
C9 - C12 Aliphatic Hydrocarbons	ND	U	mg/kg dry	295000	590000	5000	09/28/05 12:25	MADEP VPH	do	[CALC]
urrogate: 2,5-Dibromotoluene (FID) (70-130%)	*76 %*		-	-	*50*		*09/25/05 20:38*	*MADEP VPH*	*rb*	*5093751*
Surrogate: 2,5-Dibromotoluene (FID) (70-130%)	*114 %*		-	-	*5000*		*09/28/05 12:25*	*MADEP VPH*	*do*	*5094665*
Surrogate: 2,5-Dibromotoluene (PID) (70-130%)	*82 %*		-	-	*50*		*09/25/05 20:38*	*MADEP VPH*	*rb*	*5093751*
Surrogate: 2,5-Dibromotoluene (PID) (70-130%)	*100 %*		-	-	*5000*		*09/28/05 12:25*	*MADEP VPH*	*do*	*5094665*
Sample ID: NOI1819-02 (MW-1 (10') - Soil) Sampled: 09/15/05 10:55										
General Chemistry Parameters										
% Dry Solids	86.4		%	1.00	1.00	1	09/21/05 14:47	CLP	WKT	5092983
Extractable Petroleum Hydrocarbons										
C9 - C18 Aliphatic Hydrocarbons	ND		mg/kg	2.20	10.0	1	09/25/05 13:09	MADEP EPH	lrw	5092782
C19 - C36 Aliphatic Hydrocarbons	ND		mg/kg	2.90	10.0	1	09/25/05 13:09	MADEP EPH	lrw	5092782
C11 - C22 Aromatic Hydrocarbons, Unadjust	ND		mg/kg	2.94	10.0	1	09/25/05 13:36	MADEP EPH	lrw	5092782
Surrogate: 1-Chlorooctadecane (40-140%)	*52 %*		-	-	*1*		*09/25/05 13:09*	*MADEP EPH*	*lrw*	*5092782*
Surrogate: o-Terphenyl (40-140%)	*49 %*		-	-	*1*		*09/25/05 13:36*	*MADEP EPH*	*lrw*	*5092782*
Surrogate: 2-Fluorobiphenyl (40-140%)	*76 %*		-	-	*1*		*09/25/05 13:36*	*MADEP EPH*	*lrw*	*5092782*
Surrogate: 2-Bromonaphthalene (40-140%)	*70 %*		-	-	*1*		*09/25/05 13:36*	*MADEP EPH*	*lrw*	*5092782*
Purgeable Petroleum Hydrocarbons										
C5 - C8 Aliphatic Hydrocarbons, Unadjusted	2.29	J	mg/kg	0.150	5.00	50	09/25/05 15:33	MADEP VPH	rb	5093751
C9 - C10 Aromatic Hydrocarbons	1.10	J	mg/kg	0.0500	5.00	50	09/25/05 15:33	MADEP VPH	rb	5093751
C9 - C12 Aliphatic Hydrocarbons	0.820	J	mg/kg dry	0.0579	5.79	50	09/25/05 15:33	MADEP VPH	rb	[CALC]
Surrogate: 2,5-Dibromotoluene (FID) (70-130%)	*102 %*		-	-	*50*		*09/25/05 15:33*	*MADEP VPH*	*rb*	*5093751*
Surrogate: 2,5-Dibromotoluene (PID) (70-130%)	*84 %*		-	-	*50*		*09/25/05 15:33*	*MADEP VPH*	*rb*	*5093751*

TestAmerica
ANALYTICAL TESTING CORPORATION
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Client	Shealy Environmental Services (8677)	Work Order:	NOI1819
	106 Vantage Point Drive	Project Name:	Shealy Environmental Services- NC
	Cayce, SC 29033	Project Number:	Vicker Realty
Attn	Alison Edwards	Received:	09/17/05 08:00

ANALYTICAL REPORT

Analyte	Result	Flag	Units	MDL	MRL	Dilution Factor	Analysis Date/Time	Method	Analyst	Batch
Sample ID: NOI1819-03 (MW-2 (5') - Soil) Sampled: 09/15/05 11:40										
General Chemistry Parameters										
% Dry Solids	76.9		%	1.00	1.00	1	09/21/05 14:47	CLP	WKT	5092983
Extractable Petroleum Hydrocarbons										
C9 - C18 Aliphatic Hydrocarbons	10.7		mg/kg	2.20	10.0	1	09/27/05 20:12	MADEP EPH	lrw	5094020
C19 - C36 Aliphatic Hydrocarbons	ND		mg/kg	2.90	10.0	1	09/27/05 20:12	MADEP EPH	lrw	5094020
C11 - C22 Aromatic Hydrocarbons, Unadjust	4.58	J	mg/kg	2.94	10.0	1	09/27/05 20:39	MADEP EPH	lrw	5094020
Surrogate: 1-Chlorooctadecane (40-140%)	*49 %*		-	-	*1*		*09/27/05 20:12*	*MADEP EPH*	*lrw*	*5094020*
Surrogate: o-Terphenyl (40-140%)	*56 %*		-	-	*1*		*09/27/05 20:39*	*MADEP EPH*	*lrw*	*5094020*
Surrogate: 2-Fluorobiphenyl (40-140%)	*77 %*		-	-	*1*		*09/27/05 20:39*	*MADEP EPH*	*lrw*	*5094020*
Surrogate: 2-Bromonaphthalene (40-140%)	*68 %*		-	-	*1*		*09/27/05 20:39*	*MADEP EPH*	*lrw*	*5094020*
Purgeable Petroleum Hydrocarbons										
C5 - C8 Aliphatic Hydrocarbons, Unadjusted	15.4		mg/kg	0.150	5.00	50	09/25/05 16:07	MADEP VPH	rb	5093751
C9 - C10 Aromatic Hydrocarbons	59.3		mg/kg	0.500	50.0	500	09/28/05 02:55	MADEP VPH	rb	5094187
C9 - C12 Aliphatic Hydrocarbons	166		mg/kg dry	0.650	65.0	500	09/28/05 02:55	MADEP VPH	rb	[CALC]
Surrogate: 2,5-Dibromotoluene (FID) (70-130%)	*187 %*	*ZX*	-	-	*50*		*09/25/05 16:07*	*MADEP VPH*	*rb*	*5093751*
Surrogate: 2,5-Dibromotoluene (FID) (70-130%)	*132 %*	*ZX*	-	-	*500*		*09/28/05 02:55*	*MADEP VPH*	*rb*	*5094187*
Surrogate: 2,5-Dibromotoluene (PID) (70-130%)	*84 %*		-	-	*50*		*09/25/05 16:07*	*MADEP VPH*	*rb*	*5093751*
Surrogate: 2,5-Dibromotoluene (PID) (70-130%)	*94 %*		-	-	*500*		*09/28/05 02:55*	*MADEP VPH*	*rb*	*5094187*
Sample ID: NOI1819-04 (MW-2 (10') - Soil) Sampled: 09/15/05 11:50										
General Chemistry Parameters										
% Dry Solids	80.1		%	1.00	1.00	1	09/21/05 14:47	CLP	WKT	5092983
Extractable Petroleum Hydrocarbons										
C9 - C18 Aliphatic Hydrocarbons	686		mg/kg	44.0	200	20	09/26/05 12:24	MADEP EPH	lrw	5092782
C19 - C36 Aliphatic Hydrocarbons	145		mg/kg	5.80	20.0	2	09/26/05 12:51	MADEP EPH	lrw	5092782
C11 - C22 Aromatic Hydrocarbons, Unadjust	322		mg/kg	14.7	50.0	5	09/26/05 13:18	MADEP EPH	lrw	5092782
Surrogate: 1-Chlorooctadecane (40-140%)	*	*Z3*	-	-	*20*		*09/26/05 12:24*	*MADEP EPH*	*lrw*	*5092782*
Surrogate: 1-Chlorooctadecane (40-140%)	*75 %*		-	-	*2*		*09/26/05 12:51*	*MADEP EPH*	*lrw*	*5092782*
Surrogate: o-Terphenyl (40-140%)	*370 %*	*Z3*	-	-	*5*		*09/26/05 13:18*	*MADEP EPH*	*lrw*	*5092782*
Surrogate: 2-Fluorobiphenyl (40-140%)	*71 %*		-	-	*5*		*09/26/05 13:18*	*MADEP EPH*	*lrw*	*5092782*
Surrogate: 2-Bromonaphthalene (40-140%)	*62 %*		-	-	*5*		*09/26/05 13:18*	*MADEP EPH*	*lrw*	*5092782*
Purgeable Petroleum Hydrocarbons										
C5 - C8 Aliphatic Hydrocarbons, Unadjusted	120		mg/kg	1.50	50.0	500	09/28/05 05:44	MADEP VPH	rb	5094187
C9 - C10 Aromatic Hydrocarbons	121		mg/kg	0.500	50.0	500	09/28/05 05:44	MADEP VPH	rb	5094187
C9 - C12 Aliphatic Hydrocarbons	294		mg/kg dry	0.624	62.4	500	09/28/05 05:44	MADEP VPH	rb	[CALC]
Surrogate: 2,5-Dibromotoluene (FID) (70-130%)	*75 %*		-	-	*500*		*09/28/05 05:44*	*MADEP VPH*	*rb*	*5094187*
Surrogate: 2,5-Dibromotoluene (PID) (70-130%)	*101 %*		-	-	*500*		*09/28/05 05:44*	*MADEP VPH*	*rb*	*5094187*
Sample ID: NOI1819-05 (MW-3 (5') - Soil) Sampled: 09/15/05 12:25										
General Chemistry Parameters										
% Dry Solids	75.8		%	1.00	1.00	1	09/21/05 14:47	CLP	WKT	5092983
Extractable Petroleum Hydrocarbons										
C9 - C18 Aliphatic Hydrocarbons	77.6		mg/kg	4.40	20.0	2	09/26/05 13:45	MADEP EPH	lrw	5092782

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Client	Shealy Environmental Services (8677)	Work Order:	NOI1819
	106 Vantage Point Drive	Project Name:	Shealy Environmental Services- NC
	Cayce, SC 29033	Project Number:	Vicker Realty
Attn	Alison Edwards	Received:	09/17/05 08:00

ANALYTICAL REPORT

Analyte	Result	Flag	Units	MDL	MRL	Dilution Factor	Analysis Date/Time	Method	Analyst	Batch
Sample ID: NOI1819-05 (MW-3 (5') - Soil) - cont. Sampled: 09/15/05 12:25										
Extractable Petroleum Hydrocarbons - cont.										
C19 - C36 Aliphatic Hydrocarbons	8.64	J	mg/kg	2.90	10.0	1	09/25/05 15:50	MADEP EPH	lrw	5092782
C11 - C22 Aromatic Hydrocarbons, Unadjust	51.9		mg/kg	2.94	10.0	1	09/25/05 16:17	MADEP EPH	lrw	5092782
Surrogate: 1-Chlorooctadecane (40-140%)	*49 %*		-	-		*1*	*09/25/05 15:50*	*MADEP EPH*	*lrw*	*5092782*
Surrogate: 1-Chlorooctadecane (40-140%)	*58 %*		-	-		*2*	*09/26/05 13:45*	*MADEP EPH*	*lrw*	*5092782*
Surrogate: o-Terphenyl (40-140%)	*92 %*		-	-		*1*	*09/25/05 16:17*	*MADEP EPH*	*lrw*	*5092782*
Surrogate: 2-Fluorobiphenyl (40-140%)	*67 %*		-	-		*1*	*09/25/05 16:17*	*MADEP EPH*	*lrw*	*5092782*
Surrogate: 2-Bromonaphthalene (40-140%)	*64 %*		-	-		*1*	*09/25/05 16:17*	*MADEP EPH*	*lrw*	*5092782*
Purgeable Petroleum Hydrocarbons										
C5 - C8 Aliphatic Hydrocarbons, Unadjusted	4.05	J	mg/kg	0.150	5.00	50	09/25/05 17:15	MADEP VPH	rb	5093751
C9 - C10 Aromatic Hydrocarbons	7.81		mg/kg	0.0500	5.00	50	09/25/05 17:15	MADEP VPH	rb	5093751
C9 - C12 Aliphatic Hydrocarbons	10.8		mg/kg dry	0.0660	6.60	50	09/25/05 17:15	MADEP VPH	rb	[CALC]
Surrogate: 2,5-Dibromotoluene (FID) (70-130%)	*61 %*	*ZX*	-	-		*50*	*09/25/05 17:15*	*MADEP VPH*	*rb*	*5093751*
Surrogate: 2,5-Dibromotoluene (PID) (70-130%)	*73 %*		-	-		*50*	*09/25/05 17:15*	*MADEP VPH*	*rb*	*5093751*
Sample ID: NOI1819-06 (MW-3 (10') - Soil) Sampled: 09/15/05 13:10										
General Chemistry Parameters										
% Dry Solids	89.7		%	1.00	1.00	1	09/21/05 14:47	CLP	WKT	5092983
Extractable Petroleum Hydrocarbons										
C9 - C18 Aliphatic Hydrocarbons	527		mg/kg	23.0	104	10	09/26/05 14:12	MADEP EPH	lrw	5092782
C19 - C36 Aliphatic Hydrocarbons	70.8		mg/kg	3.03	10.4	1	09/25/05 16:44	MADEP EPH	lrw	5092782
C11 - C22 Aromatic Hydrocarbons, Unadjust	445		mg/kg	15.4	52.2	5	09/26/05 14:39	MADEP EPH	lrw	5092782
Surrogate: 1-Chlorooctadecane (40-140%)	*32 %*	*ZX*	-	-		*1*	*09/25/05 16:44*	*MADEP EPH*	*lrw*	*5092782*
Surrogate: 1-Chlorooctadecane (40-140%)	*105 %*		-	-		*10*	*09/26/05 14:12*	*MADEP EPH*	*lrw*	*5092782*
Surrogate: o-Terphenyl (40-140%)	*283 %*	*Z3*	-	-		*5*	*09/26/05 14:39*	*MADEP EPH*	*lrw*	*5092782*
Surrogate: 2-Fluorobiphenyl (40-140%)	*68 %*		-	-		*5*	*09/26/05 14:39*	*MADEP EPH*	*lrw*	*5092782*
Surrogate: 2-Bromonaphthalene (40-140%)	*110 %*		-	-		*5*	*09/26/05 14:39*	*MADEP EPH*	*lrw*	*5092782*
Purgeable Petroleum Hydrocarbons										
C5 - C8 Aliphatic Hydrocarbons, Unadjusted	7.07		mg/kg	0.150	5.00	50	09/25/05 17:49	MADEP VPH	rb	5093751
C9 - C10 Aromatic Hydrocarbons	21.7		mg/kg	0.0500	5.00	50	09/25/05 17:49	MADEP VPH	rb	5093751
C9 - C12 Aliphatic Hydrocarbons	19.6		mg/kg dry	0.0557	5.57	50	09/25/05 17:49	MADEP VPH	rb	[CALC]
Surrogate: 2,5-Dibromotoluene (FID) (70-130%)	*48 %*	*ZX*	-	-		*50*	*09/25/05 17:49*	*MADEP VPH*	*rb*	*5093751*
Surrogate: 2,5-Dibromotoluene (PID) (70-130%)	*80 %*		-	-		*50*	*09/25/05 17:49*	*MADEP VPH*	*rb*	*5093751*
Sample ID: NOI1819-07 (MW-3 (15') - Soil) Sampled: 09/15/05 13:25										
General Chemistry Parameters										
% Dry Solids	80.5		%	1.00	1.00	1	09/21/05 14:47	CLP	WKT	5092983
Extractable Petroleum Hydrocarbons										
C9 - C18 Aliphatic Hydrocarbons	109		mg/kg	4.40	20.0	2	09/26/05 15:06	MADEP EPH	lrw	5092782
C19 - C36 Aliphatic Hydrocarbons	16.1		mg/kg	2.90	10.0	1	09/25/05 18:33	MADEP EPH	lrw	5092782
C11 - C22 Aromatic Hydrocarbons, Unadjust	130		mg/kg	5.88	20.0	2	09/26/05 15:33	MADEP EPH	lrw	5092782
Surrogate: 1-Chlorooctadecane (40-140%)	*41 %*		-	-		*1*	*09/25/05 18:33*	*MADEP EPH*	*lrw*	*5092782*
Surrogate: 1-Chlorooctadecane (40-140%)	*44 %*		-	-		*2*	*09/26/05 15:06*	*MADEP EPH*	*lrw*	*5092782*

TestAmerica
ANALYTICAL TESTING CORPORATION
2960 Foster Creighton Road Nashville, TN 37204 * 800-765-0980 * Fax 615-726-3404

Client	Shealy Environmental Services (8677)	Work Order:	NOI1819
	106 Vantage Point Drive	Project Name:	Shealy Environmental Services- NC
	Cayce, SC 29033	Project Number:	Vicker Realty
Attn	Alison Edwards	Received:	09/17/05 08:00

ANALYTICAL REPORT

Analyte	Result	Flag	Units	MDL	MRL	Dilution Factor	Analysis Date/Time	Method	Analyst	Batch
Sample ID: NOI1819-07RE2 (MW-3 (15') - Soil) - cont. Sampled: 09/15/05 13:25										
Extractable Petroleum Hydrocarbons - cont.										
Surrogate: o-Terphenyl (40-140%)	*155 %*	*Z3*	-	-		*2*	*09/26/05 15:33*	*MADEP EPH*	*lrw*	*5092782*
Surrogate: 2-Fluorobiphenyl (40-140%)	*67 %*		-	-		*2*	*09/26/05 15:33*	*MADEP EPH*	*lrw*	*5092782*
Surrogate: 2-Bromonaphthalene (40-140%)	*73 %*		-	-		*2*	*09/26/05 15:33*	*MADEP EPH*	*lrw*	*5092782*
Purgeable Petroleum Hydrocarbons										
C5 - C8 Aliphatic Hydrocarbons, Unadjusted	**5.16**		mg/kg	0.150	5.00	50	09/25/05 18:23	MADEP VPH	rb	5093751
C9 - C10 Aromatic Hydrocarbons	**13.3**		mg/kg	0.0500	5.00	50	09/25/05 18:23	MADEP VPH	rb	5093751
C9 - C12 Aliphatic Hydrocarbons	**13.5**		mg/kg dry	0.0621	6.21	50	09/25/05 18:23	MADEP VPH	rb	[CALC]
Surrogate: 2,5-Dibromotoluene (FID) (70-130%)	*78 %*		-	-		*50*	*09/25/05 18:23*	*MADEP VPH*	*rb*	*5093751*
Surrogate: 2,5-Dibromotoluene (PID) (70-130%)	*86 %*		-	-		*50*	*09/25/05 18:23*	*MADEP VPH*	*rb*	*5093751*

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	106 Vantage Point Drive	Project Name:	Shealy Environmental Services- NC
	Cayce, SC 29033	Project Number:	Vicker Realty
Attn	Alison Edwards	Received:	09/17/05 08:00

SAMPLE EXTRACTION DATA

Parameter	Batch	Lab Number	Wt/Vol Extracted	Extracted Vol	Date	Analyst	Extraction Method
Extractable Petroleum Hydrocarbons							
MADEP EPH	5092782	NOI1819-01	9.61	1.00	09/20/05 12:00	BES	MADEP
MADEP EPH	5092782	NOI1819-01RE1	9.61	1.00	09/20/05 12:00	BES	MADEP
MADEP EPH	5092782	NOI1819-02	9.81	1.00	09/20/05 12:00	BES	MADEP
MADEP EPH	5092782	NOI1819-03	9.63	1.00	09/20/05 12:00	BES	MADEP
MADEP EPH	5094020	NOI1819-03RE1	10.01	1.00	09/27/05 08:25	BES	MADEP
MADEP EPH	5092782	NOI1819-04	9.80	1.00	09/20/05 12:00	BES	MADEP
MADEP EPH	5092782	NOI1819-04RE1	9.80	1.00	09/20/05 12:00	BES	MADEP
MADEP EPH	5092782	NOI1819-04RE2	9.80	1.00	09/20/05 12:00	BES	MADEP
MADEP EPH	5092782	NOI1819-04RE3	9.80	1.00	09/20/05 12:00	BES	MADEP
MADEP EPH	5092782	NOI1819-05	9.73	1.00	09/20/05 12:00	BES	MADEP
MADEP EPH	5092782	NOI1819-05RE1	9.73	1.00	09/20/05 12:00	BES	MADEP
MADEP EPH	5092782	NOI1819-06	9.57	1.00	09/20/05 12:00	BES	MADEP
MADEP EPH	5092782	NOI1819-06RE1	9.57	1.00	09/20/05 12:00	BES	MADEP
MADEP EPH	5092782	NOI1819-06RE2	9.57	1.00	09/20/05 12:00	BES	MADEP
MADEP EPH	5092782	NOI1819-07	9.81	1.00	09/20/05 12:00	BES	MADEP
MADEP EPH	5092782	NOI1819-07RE1	9.81	1.00	09/20/05 12:00	BES	MADEP
MADEP EPH	5092782	NOI1819-07RE2	9.81	1.00	09/20/05 12:00	BES	MADEP
Purgeable Petroleum Hydrocarbons							
MADEP VPH	5093751	NOI1819-01	5.00	5.00	09/24/05 15:05	JXF	MADEP
MADEP VPH	5094665	NOI1819-01RE1	5.00	5.00	09/27/05 19:47	DXO	MADEP
MADEP VPH	5093751	NOI1819-02	5.00	5.00	09/24/05 15:05	JXF	MADEP
MADEP VPH	5093751	NOI1819-03	5.00	5.00	09/24/05 15:05	JXF	MADEP
MADEP VPH	5094187	NOI1819-03RE1	5.00	5.00	09/27/05 19:47	DXO	MADEP
MADEP VPH	5094187	NOI1819-04	5.00	5.00	09/27/05 19:47	DXO	MADEP
MADEP VPH	5093751	NOI1819-05	5.00	5.00	09/24/05 15:05	JXF	MADEP
MADEP VPH	5093751	NOI1819-06	5.00	5.00	09/24/05 15:05	JXF	MADEP
MADEP VPH	5093751	NOI1819-07	5.00	5.00	09/24/05 15:05	JXF	MADEP

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Client	Shealy Environmental Services (8677)	Work Order:	NOI1819
	106 Vantage Point Drive	Project Name:	Shealy Environmental Services- NC
	Cayce, SC 29033	Project Number:	Vicker Realty
Attn	Alison Edwards	Received:	09/17/05 08:00

PROJECT QUALITY CONTROL DATA
Blank

Analyte	Blank Value	Q	Units	Q.C. Batch	Lab Number	Analyzed Date/Time
Extractable Petroleum Hydrocarbons						
5092782-BLK1						
C9 - C18 Aliphatic Hydrocarbons	<2.20		mg/kg	5092782	5092782-BLK1	09/25/05 05:21
C19 - C36 Aliphatic Hydrocarbons	<2.90		mg/kg	5092782	5092782-BLK1	09/25/05 05:21
C11 - C22 Aromatic Hydrocarbons, Unadjus	7.93	J	mg/kg	5092782	5092782-BLK1	09/25/05 05:48
Surrogate: 1-Chlorooctadecane	58%			5092782	5092782-BLK1	09/25/05 05:21
Surrogate: o-Terphenyl	82%			5092782	5092782-BLK1	09/25/05 05:48
Surrogate: 2-Fluorobiphenyl	90%			5092782	5092782-BLK1	09/25/05 05:48
Surrogate: 2-Bromonaphthalene	87%			5092782	5092782-BLK1	09/25/05 05:48
5094020-BLK1						
C9 - C18 Aliphatic Hydrocarbons	<2.20		mg/kg	5094020	5094020-BLK1	09/27/05 16:36
C19 - C36 Aliphatic Hydrocarbons	<2.90		mg/kg	5094020	5094020-BLK1	09/27/05 16:36
C11 - C22 Aromatic Hydrocarbons, Unadjus	<2.94		mg/kg	5094020	5094020-BLK1	09/27/05 17:03
Surrogate: 1-Chlorooctadecane	57%			5094020	5094020-BLK1	09/27/05 16:36
Surrogate: o-Terphenyl	79%			5094020	5094020-BLK1	09/27/05 17:03
Surrogate: 2-Fluorobiphenyl	84%			5094020	5094020-BLK1	09/27/05 17:03
Surrogate: 2-Bromonaphthalene	80%			5094020	5094020-BLK1	09/27/05 17:03
Purgeable Petroleum Hydrocarbons						
5093751-BLK1						
C5 - C8 Aliphatic Hydrocarbons, Unadjuste	0.00444	J	mg/kg	5093751	5093751-BLK1	09/25/05 12:43
C9 - C10 Aromatic Hydrocarbons	<0.00100		mg/kg	5093751	5093751-BLK1	09/25/05 12:43
C9 - C12 Aliphatic Hydrocarbons, Unadjust	<0.00400		mg/kg	5093751	5093751-BLK1	09/25/05 12:43
Surrogate: 2,5-Dibromotoluene (FID)	85%			5093751	5093751-BLK1	09/25/05 12:43
Surrogate: 2,5-Dibromotoluene (PID)	76%			5093751	5093751-BLK1	09/25/05 12:43
5094187-BLK1						
C5 - C8 Aliphatic Hydrocarbons, Unadjuste	0.00972	J	mg/kg	5094187	5094187-BLK1	09/28/05 00:06
C9 - C10 Aromatic Hydrocarbons	<0.00100		mg/kg	5094187	5094187-BLK1	09/28/05 00:06
C9 - C12 Aliphatic Hydrocarbons, Unadjust	0.00686	J	mg/kg	5094187	5094187-BLK1	09/28/05 00:06
Surrogate: 2,5-Dibromotoluene (FID)	96%			5094187	5094187-BLK1	09/28/05 00:06
Surrogate: 2,5-Dibromotoluene (PID)	94%			5094187	5094187-BLK1	09/28/05 00:06
5094665-BLK1						
C5 - C8 Aliphatic Hydrocarbons, Unadjuste	<50.0		mg/kg	5094665	5094665-BLK1	09/27/05 23:40
C9 - C10 Aromatic Hydrocarbons	<50.0		mg/kg	5094665	5094665-BLK1	09/27/05 23:40
C9 - C12 Aliphatic Hydrocarbons, Unadjust	<50.0		mg/kg	5094665	5094665-BLK1	09/27/05 23:40
Surrogate: 2,5-Dibromotoluene (FID)	88%			5094665	5094665-BLK1	09/27/05 23:40
Surrogate: 2,5-Dibromotoluene (PID)	91%			5094665	5094665-BLK1	09/27/05 23:40

TestAmerica
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Client	Shealy Environmental Services (8677)	Work Order:	NOI1819
	106 Vantage Point Drive	Project Name:	Shealy Environmental Services- NC
	Cayce, SC 29033	Project Number:	Vicker Realty
Attn	Alison Edwards	Received:	09/17/05 08:00

PROJECT QUALITY CONTROL DATA
LCS

Analyte	Known Val.	Analyzed Val	Q	Units	% Rec.	Target Range	Batch	Analyzed Date/Time
Extractable Petroleum Hydrocarbons								
5092782-BS1								
C9 - C18 Aliphatic Hydrocarbons	15.0	9.64	J	mg/kg	64%	40 - 140	5092782	09/25/05 06:16
C19 - C36 Aliphatic Hydrocarbons	20.0	13.5		mg/kg	68%	40 - 140	5092782	09/25/05 06:16
C11 - C22 Aromatic Hydrocarbons, Unadjustec	42.5	42.4		mg/kg	100%	40 - 140	5092782	09/25/05 06:43
Surrogate: 1-Chlorooctadecane	2.00	1.32			66%	40 - 140	5092782	09/25/05 06:16
Surrogate: o-Terphenyl	2.00	1.60			80%	40 - 140	5092782	09/25/05 06:43
Surrogate: 2-Fluorobiphenyl	4.00	3.78			94%	40 - 140	5092782	09/25/05 06:43
Surrogate: 2-Bromonaphthalene	4.00	3.53			88%	40 - 140	5092782	09/25/05 06:43
5094020-BS1								
C9 - C18 Aliphatic Hydrocarbons	15.0	12.3		mg/kg	82%	40 - 140	5094020	09/27/05 17:30
C19 - C36 Aliphatic Hydrocarbons	20.0	16.8		mg/kg	84%	40 - 140	5094020	09/27/05 17:30
C11 - C22 Aromatic Hydrocarbons, Unadjustec	42.5	36.7		mg/kg	86%	40 - 140	5094020	09/27/05 17:57
Surrogate: 1-Chlorooctadecane	2.00	1.35			68%	40 - 140	5094020	09/27/05 17:30
Surrogate: o-Terphenyl	2.00	1.71			86%	40 - 140	5094020	09/27/05 17:57
Surrogate: 2-Fluorobiphenyl	4.00	3.19			80%	40 - 140	5094020	09/27/05 17:57
Surrogate: 2-Bromonaphthalene	4.00	3.02			76%	40 - 140	5094020	09/27/05 17:57
Purgeable Petroleum Hydrocarbons								
5093751-BS1								
C5 - C8 Aliphatic Hydrocarbons, Unadjusted	300	264		ug/L	88%	70 - 130	5093751	09/25/05 09:20
C9 - C10 Aromatic Hydrocarbons	100	83.6		ug/L	84%	70 - 130	5093751	09/25/05 09:20
C9 - C12 Aliphatic Hydrocarbons, Unadjusted	200	178		ug/L	89%	70 - 130	5093751	09/25/05 09:20
Surrogate: 2,5-Dibromotoluene (FID)	140	114			81%	70 - 130	5093751	09/25/05 09:20
Surrogate: 2,5-Dibromotoluene (PID)	140	102			73%	70 - 130	5093751	09/25/05 09:20
5094187-BS1								
C5 - C8 Aliphatic Hydrocarbons, Unadjusted	300	307		ug/L	102%	70 - 130	5094187	09/27/05 20:43
C9 - C10 Aromatic Hydrocarbons	100	104		ug/L	104%	70 - 130	5094187	09/27/05 20:43
C9 - C12 Aliphatic Hydrocarbons, Unadjusted	200	206		ug/L	103%	70 - 130	5094187	09/27/05 20:43
Surrogate: 2,5-Dibromotoluene (FID)	140	121			86%	70 - 130	5094187	09/27/05 20:43
Surrogate: 2,5-Dibromotoluene (PID)	140	127			91%	70 - 130	5094187	09/27/05 20:43
5094665-BS1								
C5 - C8 Aliphatic Hydrocarbons, Unadjusted	300	387		ug/L	129%	70 - 130	5094665	09/27/05 21:56
C9 - C10 Aromatic Hydrocarbons	100	123		ug/L	123%	70 - 130	5094665	09/27/05 21:56
C9 - C12 Aliphatic Hydrocarbons, Unadjusted	200	237		ug/L	118%	70 - 130	5094665	09/27/05 21:56
Surrogate: 2,5-Dibromotoluene (FID)	140	166			119%	70 - 130	5094665	09/27/05 21:56
Surrogate: 2,5-Dibromotoluene (PID)	140	172			123%	70 - 130	5094665	09/27/05 21:56

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	106 Vantage Point Drive	Project Name:	Shealy Environmental Services- NC
	Cayce, SC 29033	Project Number:	Vicker Realty
Attn	Alison Edwards	Received:	09/17/05 08:00

PROJECT QUALITY CONTROL DATA
LCS Dup

Analyte	Orig. Val.	Duplicate	Q	Units	Spike Conc	% Rec.	Target Range	RPD	Limit	Batch	Sample Duplicated	Analyzed Date/Time
Extractable Petroleum Hydrocarbons												
5092782-BSD1												
C9 - C18 Aliphatic Hydrocarbons		10.4		mg/kg	15.0	69%	40 - 140	8	25	5092782		09/25/05 07:10
C19 - C36 Aliphatic Hydrocarbons		17.0		mg/kg	20.0	85%	40 - 140	23	25	5092782		09/25/05 07:10
C11 - C22 Aromatic Hydrocarbons, Unadjuste		43.7		mg/kg	42.5	103%	40 - 140	3	25	5092782		09/25/05 07:38
Surrogate: 1-Chlorooctadecane		1.40		mg/kg	2.00	70%	40 - 140			5092782		09/25/05 07:10
Surrogate: o-Terphenyl		1.70		mg/kg	2.00	85%	40 - 140			5092782		09/25/05 07:38
Surrogate: 2-Fluorobiphenyl		3.91		mg/kg	4.00	98%	40 - 140			5092782		09/25/05 07:38
Surrogate: 2-Bromonaphthalene		3.55		mg/kg	4.00	89%	40 - 140			5092782		09/25/05 07:38
5094020-BSD1												
C9 - C18 Aliphatic Hydrocarbons		11.9		mg/kg	15.0	79%	40 - 140	3	25	5094020		09/27/05 18:24
C19 - C36 Aliphatic Hydrocarbons		17.2		mg/kg	20.0	86%	40 - 140	2	25	5094020		09/27/05 18:24
C11 - C22 Aromatic Hydrocarbons, Unadjuste		37.2		mg/kg	42.5	88%	40 - 140	1	25	5094020		09/27/05 18:51
Surrogate: 1-Chlorooctadecane		1.19		mg/kg	2.00	60%	40 - 140			5094020		09/27/05 18:24
Surrogate: o-Terphenyl		1.72		mg/kg	2.00	86%	40 - 140			5094020		09/27/05 18:51
Surrogate: 2-Fluorobiphenyl		3.10		mg/kg	4.00	78%	40 - 140			5094020		09/27/05 18:51
Surrogate: 2-Bromonaphthalene		2.97		mg/kg	4.00	74%	40 - 140			5094020		09/27/05 18:51
Purgeable Petroleum Hydrocarbons												
5093751-BSD1												
C5 - C8 Aliphatic Hydrocarbons, Unadjusted		316		ug/L	300	105%	70 - 130	18	25	5093751		09/25/05 23:27
C9 - C10 Aromatic Hydrocarbons		84.1		ug/L	100	84%	70 - 130	0.6	25	5093751		09/25/05 23:27
C9 - C12 Aliphatic Hydrocarbons, Unadjusted		224		ug/L	200	112%	70 - 130	23	25	5093751		09/25/05 23:27
Surrogate: 2,5-Dibromotoluene (FID)		121		ug/L	140	86%	70 - 130			5093751		09/25/05 23:27
Surrogate: 2,5-Dibromotoluene (PID)		96.3	Z11	ug/L	140	69%	70 - 130			5093751		09/25/05 23:27
5094187-BSD1												
C5 - C8 Aliphatic Hydrocarbons, Unadjusted		231	R	ug/L	300	77%	70 - 130	28	25	5094187		09/28/05 15:03
C9 - C10 Aromatic Hydrocarbons		102		ug/L	100	102%	70 - 130	2	25	5094187		09/28/05 15:03
C9 - C12 Aliphatic Hydrocarbons, Unadjusted		170		ug/L	200	85%	70 - 130	19	25	5094187		09/28/05 15:03
Surrogate: 2,5-Dibromotoluene (FID)		139		ug/L	140	99%	70 - 130			5094187		09/28/05 15:03
Surrogate: 2,5-Dibromotoluene (PID)		162		ug/L	140	116%	70 - 130			5094187		09/28/05 15:03
5094665-BSD1												
C5 - C8 Aliphatic Hydrocarbons, Unadjusted		287	R	ug/L	300	96%	70 - 130	30	25	5094665		09/28/05 14:54
C9 - C10 Aromatic Hydrocarbons		104		ug/L	100	104%	70 - 130	17	25	5094665		09/28/05 14:54
C9 - C12 Aliphatic Hydrocarbons, Unadjusted		187		ug/L	200	94%	70 - 130	24	25	5094665		09/28/05 14:54
Surrogate: 2,5-Dibromotoluene (FID)		146		ug/L	140	104%	70 - 130			5094665		09/28/05 14:54
Surrogate: 2,5-Dibromotoluene (PID)		151		ug/L	140	108%	70 - 130			5094665		09/28/05 14:54

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	106 Vantage Point Drive	Project Name:	Shealy Environmental Services- NC
	Cayce, SC 29033	Project Number:	Vicker Realty
Attn	Alison Edwards	Received:	09/17/05 08:00

CERTIFICATION SUMMARY

TestAmerica Analytical - Nashville

Method	Matrix	AIHA	Nelac	North Carolina
CLP	Soil			
MADEP EPH	Soil		X	X
MADEP VPH	Soil		X	X

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DATA QUALIFIERS AND DEFINITIONS

J	Estimated value. Analyte detected at a level less than the Reporting Limit (RL) and greater than or equal to the Method Detection Limit (MDL). The user of this data should be aware that this data is of limited reliability.
R	The RPD exceeded the method control limit due to sample matrix effects. The individual analyte QA/QC recoveries, however, were within acceptance limits.
U	Analyte included in the analysis, but not detected
Z11	Surrogate low but all targets within method criteria. No effect on data.
Z3	The sample required a dilution due to the nature of the sample matrix. Because of this dilution, the surrogate spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information.
ZX	Due to sample matrix effects, the surrogate recovery was outside the acceptance limits.

TestAmerica
ANALYTICAL TESTING CORPORATION
Nashville Division

NOI1819

COOLER RECEIPT FORM BC#

Client Name: Sheaty

Cooler Received/Opened On: 9/17/05 Accessioned By: Shane Gambill

Log-in Personnel Signature

1. Temperature of Cooler when triaged: 3.2 Degrees Celsius
2. Were custody seals on outside of cooler?..... YES...NO...NA
   a. If yes, how many and where: _____
3. Were custody seals on containers?..... NO...YES...NA
4. Were the seals intact, signed, and dated correctly?..... YES...NO...NA
5. Were custody papers inside cooler?..... YES...NO...NA
6. Were custody papers properly filled out (ink, signed, etc)?..... YES...NO...NA
7. Did you sign the custody papers in the appropriate place?..... YES...NO...NA
8. What kind of packing material used? Bubblewrap Peanuts Vermiculite Foam Insert Ziplock baggies Paper Other None
9. Cooling process: Ice Ice-pack Ice (direct contact) Dry ice Other None
10. Did all containers arrive in good condition (unbroken)?..... YES...NO...NA
11. Were all container labels complete (#, date, signed, pres., etc)?..... YES...NO...NA
12. Did all container labels and tags agree with custody papers?..... YES...NO...NA
13. Were correct containers used for the analysis requested?..... YES...NO...NA
14. a. Were VOA vials received?..... YES...NO...NA
    b. Was there any observable head space present in any VOA vial?..... NO...YES...NA
15. Was sufficient amount of sample sent in each container?..... YES...NO...NA
16. Were correct preservatives used?..... YES...NO...NA
    If not, record standard ID of preservative used here_____
17. Was residual chlorine present?..... NO...YES...NA
18. Indicate the Airbill Tracking Number (last 4 digits for Fedex only) and Name of Courier below:

Fed-Ex UPS Velocity DHL Route Off-street Misc.

19. If a Non-Conformance exists, see attached or comments below:

0132

BIS = Broken in shipment

SHEALY **Chain of Custody Record**

NOI1819

09/26/05 17:00

SHEALY ENVIRONMENTAL SERVICES, INC.
106 Vantage Point Drive
Cayce, South Carolina 29033
Telephone No. (803) 791-9700 Fax No. (803) 791-9111

Number 50868

Client	Report to Contact: Alison Edwards	Telephone No. / Fax No. / E-mail	Quote No.
Address	Sampler's Signature: X	Waybill No.	Page 1 of 1
City / State / Zip Code	Printed Name	Analysis (Attach list if more space is needed.)	
Project Name: Vickar Realty			
Project No. / P.O. No.			Lot No.

Sample ID / Description (Containers for each sample may be combined on one line.)	Date	Time	G-Grab C-Composite	Matrix: Aqueous	Solid	Non-Aqueous	No. of Containers by Preservative Type: Unpres.	H2SO4	HNO3	HCl	NaOH	5035 Kit	M	VPH-NC	EPH-NC							Remarks / Cooler I.D.
MW-1 (5')	9/15	1040	G		X		1						2	X	X			NOI1819-1				5-DAY STD
MW-1 (10')		1055					1						2	X	X						2	
MW-2 (5')		1140					1						2	X	X						3	
MW-2 (10')		1150					1						2	X	X						4	
MW-3 (5')		1225					1						2	X	X						5	
MW-3 (10')		1310					1						2	X	X						6	
MW-3 (15')		1325					1							X	X						7	

Possible Hazard Identification: ☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison ☐ Unknown

Sample Disposal: ☐ Return to Client ☒ Disposal by Lab

Note: All samples are retained for six weeks from receipt unless other arrangements are made.

Turn Around Time Required (Prior lab approval required for expedited TAT.): ☒ Standard ☐ Rush (Specify) 5-DAY STD TAT

QC Requirements (Specify)

1. Relinquished by: [signature]	Date 9/16	Time 1700	1. Received by: Federal Express	Date 9/16	Time 1700
2. Relinquished by	Date	Time	2. Received by	Date	Time
3. Relinquished by: Federal Express	Date 9/17	Time	3. Laboratory received by: [signature]	Date 9/17/05	Time 8:00

Comments

LAB USE ONLY
Received on ice (Circle) Yes No Ice Pack

Receipt Temp. _____ °C

DISTRIBUTION: WHITE & YELLOW-Return to laboratory with Sample(s); PINK-Field/Client Copy

Document Number: F-AD-012 Effective Date: 08-04-02

SHEALY **Chain of Custody Record**

SHEALY ENVIRONMENTAL SERVICES, INC.
106 Vantage Point Drive
Cayce, South Carolina 29033
Telephone No. (803) 791-9700 Fax No. (803) 791-9111

Number 47657

Client: HRM Environmental	Report to Contact: Tim McCorkle	Telephone No. / Fax No. / E-mail: 704-369-0621 / 704-369-0623	Quote No.
Address: 11164 Downs Road	Sampler's Signature: X Tim McCorkle	Waybill No.	Page 1 of 1
City: Pineville; State: NC; Zip Code: 28134	Printed Name: Tim McCorkle	Analysis (Attach list if more space is needed.)	
Project Name: Vickers Realty			
Project No.	P.O. No.		Lot No. GI17013

Sample ID / Description (Containers for each sample may be combined on one line.)	Date	Time	G=Grab C=Composite	Matrix: Aqueous	Solid	Non-Aqueous	No. of Containers by Preservative Type: Unpres.	H2SO4	HNO3	HCl	NaOH	5035 Kit	Methanol	8260	8270	VPH	EPH	Remarks / Cooler I.D.
MW-1 (5')	9-15-05	10:40	G		X		2					1	2	X	X	X	X	
MW-1 (10')	9-15-05	10:55	G		X		2					1	2	X	X	X	X	
MW-2 (5')	9-15-05	11:40	G		X		2					1	2	X	X	X	X	
MW-2 (10')	9-15-05	11:50	G		X		2					1	2	X	X	X	X	
MW-3 (5')	9-15-05	12:25	G		X		2					1	2	X	X	X	X	
MW-3 (10')	9-15-05	13:10	G		X		2					1	2	X	X	X	X	
MW-3 (15')	9-15-05	13:25	G		X		2					1	2	X	X	X	X	

Possible Hazard Identification: ☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison ☐ Unknown

Sample Disposal: ☐ Return to Client ☒ Disposal by Lab

Note: All samples are retained for six weeks from receipt unless other arrangements are made.

Turn Around Time Required (Prior lab approval required for expedited TAT.): ☒ Standard ☐ Rush (Specify) 7-DAY STD TAT

QC Requirements (Specify)

1. Relinquished by: Tim McCorkle	Date 9/16	Time 1235	1. Received by: [signature]	Date 9/16	Time 1235
2. Relinquished by	Date	Time	2. Received by	Date	Time
3. Relinquished by: [signature]	Date 9/16	Time 1800	3. Laboratory received by: [signature]	Date 9/16/05	Time 1800

Comments

LAB USE ONLY
Received on ice (Circle) Yes No Ice Pack
Receipt Temp. 4.0 °C

DISTRIBUTION: WHITE & YELLOW-Return to laboratory with Sample(s); PINK-Field/Client Copy

Sample Receipt Checklist

Client: ARM-Pineville Cooler Inspected by/date: BHC / 9/17/05 Lot #: GI17013

Means of receipt: ☑ SESI ☐ Client ☐ UPS ☐ FedEx ☐ Airborne Exp ☐ Other

Yes ☐	No ☑	NA ☐	1. Were custody seals present on the cooler?
Yes ☐	No ☐	NA ☑	2. If custody seals were present, were they intact and unbroken?

Cooler temperature upon receipt 4.0 °C _____ °C _____ °C _____ °C _____ °C
Method: ☐ Temperature Blank ☑ Against Bottles
Method of coolant: ☑ Wet Ice ☐ Blue Ice ☐ Dry Ice ☐ None

If response is No (or Yes for 13,14,15), an explanation/resolution must be provided.

Yes ☐	No ☐	NA ☑	3. Is the commercial courier's packing slip attached to this form?
Yes ☑	No ☐	NA ☐	4. Were proper custody procedures (relinquished/received) followed?
Yes ☑	No ☐	NA ☐	5. Were sample IDs listed?
Yes ☑	No ☐	NA ☐	6. Was collection date & time listed?
Yes ☑	No ☐	NA ☐	7. Were tests to be performed listed on the COC or was quote # provided?
Yes ☑	No ☐	NA ☐	8. Did all samples arrive in the proper containers for each test?
Yes ☑	No ☐	NA ☐	9. Did all container label information (ID, date, time) agree with COC?
Yes ☑	No ☐	NA ☐	10. Did all containers arrive in good condition (unbroken, lids on, etc.)?
Yes ☑	No ☐	NA ☐	11. Was adequate sample volume available?
Yes ☑	No ☐	NA ☐	12. Were all samples received within ½ the holding time or 48 hours, whichever comes first?
Yes ☐	No ☑	NA ☐	13. Were any samples containers missing?
Yes ☐	No ☑	NA ☐	14. Were there any excess samples not listed on COC?
Yes ☐	No ☐	NA ☑	15. Were bubbles present >"pea-size" (¼"or 6mm in diameter) in any VOA vials?
Yes ☐	No ☐	NA ☑	16. Were all metals/O&G/HEM/nutrient samples received at a pH of <2?
Yes ☐	No ☐	NA ☑	17. Were all cyanide and/or sulfide samples received at a pH >12?
Yes ☐	No ☐	NA ☑	18. Were all applicable NH3/TKN/cyanide/BNA/pest/PCB/herb (<0.2 mg/L) and toxicity (<0.1 mg/L) samples free of residual chlorine?
Yes ☐	No ☑	NA ☐	19. Were collection temperatures documented on the COC for NC samples?

Sample Preservation (Must be completed for any sample(s) incorrectly preserved or with headspace.)

Sample(s) _____ were received incorrectly preserved and were adjusted accordingly in sample receiving.

Sample(s) _____ were received with bubbles >6 mm in diameter.

Sample(s) _____ were received with TRC >0.2 mg/L for NH3/ TKN/cyanide/BNA/pest/PCB/herb.

Toxicity sample(s) _____ were received with TRC >0.1 mg/L and were analyzed by method 330.5.

Corrective Action taken, if necessary:

Was client notified: Yes ☐ No ☐ Did client respond: Yes ☐ No ☐
SESI employee: _____ Date of response: _____

Comments: _____

SHEALY ENVIRONMENTAL SERVICES, INC.

Report of Analysis

ARM Environmental Services, Inc.
11164 Downs Road
Pineville, NC 28134
Attention: Tim McCorkle

Project Name: **Vickers Realty**

Lot Number: **GI20011**
Date Completed: **10/03/2005**

Alison B Edwards
Alison Bragan Edwards
Project Manager

This report shall not be reproduced, except in its entirety, without the written approval of Shealy Environmental Services, Inc.

The following non-paginated documents are considered part of this report: Chain of Custody Record and Sample Receipt Checklist.

Case Narrative
ARM Environmental Services, Inc.
Lot Number: GI20011

This Report of Analysis contains the analytical result(s) for the sample(s) listed on the Sample Summary following this Case Narrative. The sample receiving date is documented in the header information associated with each sample.

Sample receipt, sample analysis, and data review have been performed in accordance with the most current approved NELAC standards, the Shealy Environmental Services, Inc. ("Shealy") Quality Assurance Management Plan (QAMP), standard operating procedures (SOPs), and Shealy policies. Any exceptions to the NELAC standards, the QAMP, SOPs or policies are qualified on the results page or discussed below.

If you have any questions regarding this report please contact the Shealy Project Manager listed on the cover page.

VOCs
The 602 method of compounds has been reported by EPA method 8260B. This GC/MS method is more accurate and reliable and the PQLs are equivalent. The NC UST Guidelines (Version 1.2 September 1, 2003) allows for alternative EPA methods to be used under the above stated conditions.

SVOC
The 625 method of compounds has been reported by EPA method 8260B. This GC/MS method is more accurate and reliable and the PQLs are equivalent. The NC UST Guidelines (Version 1.2 September 1, 2003) allows for alternative EPA methods to be used under the above stated conditions.

SHEALY ENVIRONMENTAL SERVICES, INC.

Sample Summary
ARM Environmental Services, Inc.
Lot Number: GI20011

Sample Number	Sample ID	Matrix	Date Sampled
001	MW-2	Aqueous	09/19/2005 1145
002	MW-1	Aqueous	09/19/2005 1215

(2 samples)

Executive Summary
ARM Environmental Services, Inc.
Lot Number: GI20011

Sample	Sample ID	Matrix	Parameter	Method	Result	Q	Units	Page
001	MW-2	Aqueous	Benzene	8260B	0.88	J	ug/L	6
001	MW-2	Aqueous	Diisopropyl ether (IPE)	8260B	100		ug/L	6
001	MW-2	Aqueous	Ethylbenzene	8260B	1.0		ug/L	6
001	MW-2	Aqueous	Methyl tertiary butyl ether (MTBE)	8260B	12		ug/L	6
001	MW-2	Aqueous	Toluene	8260B	1.1		ug/L	6
001	MW-2	Aqueous	Xylenes (total)	8260B	0.67	J	ug/L	6
001	MW-2	Aqueous	Acenaphthene	8270C	7.0		ug/L	7
001	MW-2	Aqueous	Naphthalene	8270C	16		ug/L	8
001	MW-2	Aqueous	Phenanthrene	8270C	10		ug/L	8
001	MW-2	Aqueous	Phenol	8270C	7.2		ug/L	8
001	MW-2	Aqueous	Cyclopentanol, 1-methyl-	8270C	43		ug/L	9
001	MW-2	Aqueous	2,3-Butanediol, 2,3-dimethyl-	8270C	130		ug/L	9
001	MW-2	Aqueous	Benzene, 4-ethyl-1,2-dimethyl-	8270C	26		ug/L	9
001	MW-2	Aqueous	Benzene, 2-ethenyl-1,4-dimethyl-	8270C	22		ug/L	9
001	MW-2	Aqueous	Naphthalene, 1-methyl-	8270C	48		ug/L	9
001	MW-2	Aqueous	Naphthalene, 1,6-dimethyl-	8270C	76		ug/L	9
001	MW-2	Aqueous	Pentadecane, 2,6,10,14-tetramethyl-	8270C	29		ug/L	9
001	MW-2	Aqueous	C11 - C22 Aromatics	MADEP-EPH-	520		ug/L	10
001	MW-2	Aqueous	C9 - C18 Aliphatics	MADEP-EPH-	130		ug/L	10
001	MW-2	Aqueous	C9 - C10 Aromatics	MADEP-VPH-	140		ug/L	11
001	MW-2	Aqueous	C5 - C8 Aliphatics	MADEP-VPH-	170		ug/L	11
001	MW-2	Aqueous	C9 - C12 Aliphatics	MADEP-VPH-	79	J	ug/L	11
002	MW-1	Aqueous	Benzene	8260B	12		ug/L	12
002	MW-1	Aqueous	Diisopropyl ether (IPE)	8260B	84		ug/L	12
002	MW-1	Aqueous	Ethylbenzene	8260B	55		ug/L	12
002	MW-1	Aqueous	Toluene	8260B	1.4		ug/L	12
002	MW-1	Aqueous	Xylenes (total)	8260B	15		ug/L	12
002	MW-1	Aqueous	Acenaphthene	8270C	8.2		ug/L	13
002	MW-1	Aqueous	Naphthalene	8270C	27		ug/L	14
002	MW-1	Aqueous	Phenanthrene	8270C	11		ug/L	14
002	MW-1	Aqueous	Ethyl Acetate	8270C	88		ug/L	15
002	MW-1	Aqueous	Ethylbenzene	8270C	81		ug/L	15
002	MW-1	Aqueous	Indane	8270C	81		ug/L	15
002	MW-1	Aqueous	Benzene, 2-ethenyl-1,4-dimethyl-	8270C	53		ug/L	15
002	MW-1	Aqueous	2-Ethyl-2,3-dihydro-1H-indene	8270C	33		ug/L	15
002	MW-1	Aqueous	Tridecane	8270C	34		ug/L	15
002	MW-1	Aqueous	Naphthalene, 1-methyl-	8270C	59		ug/L	15
002	MW-1	Aqueous	Naphthalene, 1,6-dimethyl-	8270C	58		ug/L	15
002	MW-1	Aqueous	Naphthalene, 1,7-dimethyl-	8270C	73		ug/L	15
002	MW-1	Aqueous	Naphthalene, 2,7-dimethyl-	8270C	39		ug/L	15
002	MW-1	Aqueous	Pentadecane	8270C	46		ug/L	15
002	MW-1	Aqueous	Naphthalene, 2,3,6-trimethyl-	8270C	36		ug/L	15
002	MW-1	Aqueous	Hexadecane	8270C	49		ug/L	15
002	MW-1	Aqueous	Tridecane	8270C	100		ug/L	15

Executive Summary (Continued)

Lot Number: GI20011

Sample	Sample ID	Matrix	Parameter	Method	Result	Q	Units	Page
002	MW-1	Aqueous	Hexadecane, 7,9-dimethyl-	8270C	72		ug/L	15
002	MW-1	Aqueous	Nonadecane	8270C	46		ug/L	15
002	MW-1	Aqueous	Eicosane	8270C	37		ug/L	15
002	MW-1	Aqueous	C11 - C22 Aromatics	MADEP-EPH-	850		ug/L	16
002	MW-1	Aqueous	C19 - C36 Aliphatics	MADEP-EPH-	86	J	ug/L	16
002	MW-1	Aqueous	C9 - C18 Aliphatics	MADEP-EPH-	630		ug/L	16
002	MW-1	Aqueous	C9 - C10 Aromatics	MADEP-VPH-	300		ug/L	17
002	MW-1	Aqueous	C5 - C8 Aliphatics	MADEP-VPH-	360		ug/L	17
002	MW-1	Aqueous	C9 - C12 Aliphatics	MADEP-VPH-	220		ug/L	17

(53 detections)

Volatile Organic Compounds by GC/MS

Client: **ARM Environmental Services, Inc.**
Laboratory ID: **GI20011-001**
Description: **MW-2**
Matrix: **Aqueous**
Date Sampled: **09/19/2005 1145**
Date Received: **09/19/2005**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	09/20/2005 1705	CMS		30869

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Benzene	**71-43-2**	**8260B**	**0.88**	**J**	**1.0**	**0.13**	**ug/L**	**1**
Chlorobenzene	108-90-7	8260B	ND		1.0	0.14	ug/L	1
1,2-Dibromoethane (EDB)	106-93-4	8260B	ND		1.0	0.30	ug/L	1
1,2-Dichlorobenzene	95-50-1	8260B	ND		1.0	0.30	ug/L	1
1,3-Dichlorobenzene	541-73-1	8260B	ND		1.0	0.30	ug/L	1
1,4-Dichlorobenzene	106-46-7	8260B	ND		1.0	0.20	ug/L	1
Diisopropyl ether (IPE)	**108-20-3**	**8260B**	**100**		**1.0**	**0.40**	**ug/L**	**1**
Ethylbenzene	**100-41-4**	**8260B**	**1.0**		**1.0**	**0.17**	**ug/L**	**1**
Methyl tertiary butyl ether (MTBE)	**1634-04-4**	**8260B**	**12**		**1.0**	**0.40**	**ug/L**	**1**
Toluene	**108-88-3**	**8260B**	**1.1**		**1.0**	**0.17**	**ug/L**	**1**
Xylenes (total)	**1330-20-7**	**8260B**	**0.67**	**J**	**1.0**	**0.22**	**ug/L**	**1**

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		86	52-138
Bromofluorobenzene		87	70-147
Toluene-d8		89	76-125

Footnote(s): *NC Cert #387, NELAC Cert #E87358

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
B = Detected in the method blank
J = Estimated result less than the PQL
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Semivolatile Organic Compounds by GC/MS

Client: **ARM Environmental Services, Inc.** Laboratory ID: **GI20011-001**
Description: **MW-2** Matrix: **Aqueous**
Date Sampled: **09/19/2005 1145**
Date Received: **09/19/2005**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3520C	8270C	1	09/25/2005 1330	DC	09/22/2005 2100	30945

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Acenaphthene	**83-32-9**	**8270C**	**7.0**		**5.0**	**0.50**	**ug/L**	**1**
Acenaphthylene	208-96-8	8270C	ND		5.0	0.50	ug/L	1
Anthracene	120-12-7	8270C	ND		5.0	0.40	ug/L	1
Benzidine	92-87-5	8270C	ND		25	9.4	ug/L	1
Benzo(a)anthracene	56-55-3	8270C	ND		5.0	0.80	ug/L	1
Benzo(a)pyrene	50-32-8	8270C	ND		5.0	1.4	ug/L	1
Benzo(b)fluoranthene	205-99-2	8270C	ND		5.0	0.90	ug/L	1
Benzo(g,h,i)perylene	191-24-2	8270C	ND		5.0	0.40	ug/L	1
Benzo(k)fluoranthene	207-08-9	8270C	ND		5.0	1.0	ug/L	1
4-Bromophenyl phenyl ether	101-55-3	8270C	ND		5.0	0.60	ug/L	1
Butyl benzyl phthalate	85-68-7	8270C	ND		10	0.60	ug/L	1
4-Chloro-3-methyl phenol	59-50-7	8270C	ND		5.0	0.40	ug/L	1
bis(2-Chloroethoxy)methane	111-91-1	8270C	ND		5.0	0.70	ug/L	1
bis(2-Chloroethyl)ether	111-44-4	8270C	ND		5.0	0.60	ug/L	1
bis(2-Chloroisopropyl)ether	108-60-1	8270C	ND		5.0	0.50	ug/L	1
2-Chloronaphthalene	91-58-7	8270C	ND		5.0	0.50	ug/L	1
2-Chlorophenol	95-57-8	8270C	ND		5.0	0.50	ug/L	1
4-Chlorophenyl phenyl ether	7005-72-3	8270C	ND		5.0	0.50	ug/L	1
Chrysene	218-01-9	8270C	ND		5.0	0.90	ug/L	1
Di-n-butyl phthalate	84-74-2	8270C	ND		5.0	1.4	ug/L	1
Di-n-octylphthalate	117-84-0	8270C	ND		5.0	0.90	ug/L	1
Dibenzo(a,h)anthracene	53-70-3	8270C	ND		5.0	0.60	ug/L	1
1,2-Dichlorobenzene	95-50-1	8270C	ND		5.0	0.50	ug/L	1
1,3-Dichlorobenzene	541-73-1	8270C	ND		5.0	0.50	ug/L	1
1,4-Dichlorobenzene	106-46-7	8270C	ND		5.0	0.60	ug/L	1
3,3'-Dichlorobenzidine	91-94-1	8270C	ND		25	5.9	ug/L	1
2,4-Dichlorophenol	120-83-2	8270C	ND		5.0	0.40	ug/L	1
Diethylphthalate	84-66-2	8270C	ND		5.0	0.50	ug/L	1
Dimethyl phthalate	131-11-3	8270C	ND		5.0	0.50	ug/L	1
2,4-Dimethylphenol	105-67-9	8270C	ND		5.0	0.80	ug/L	1
4,6-Dinitro-2-methylphenol	534-52-1	8270C	ND		25	1.5	ug/L	1
2,4-Dinitrophenol	51-28-5	8270C	ND		25	1.1	ug/L	1
2,4-Dinitrotoluene	121-14-2	8270C	ND		10	1.0	ug/L	1
2,6-Dinitrotoluene	606-20-2	8270C	ND		10	1.1	ug/L	1
1,2-Diphenylhydrazine(as azobenzene)	103-33-3	8270C	ND		5.0	0.70	ug/L	1
bis(2-Ethylhexyl)phthalate	117-81-7	8270C	ND		5.0	3.8	ug/L	1
Fluoranthene	206-44-0	8270C	ND		5.0	0.60	ug/L	1
Fluorene	86-73-7	8270C	ND		5.0	0.50	ug/L	1
Hexachlorobenzene	118-74-1	8270C	ND		5.0	0.50	ug/L	1
Hexachlorobutadiene	87-68-3	8270C	ND		5.0	0.50	ug/L	1
Hexachlorocyclopentadiene	77-47-4	8270C	ND		25	2.1	ug/L	1
Hexachloroethane	67-72-1	8270C	ND		5.0	0.50	ug/L	1
Indeno(1,2,3-c,d)pyrene	193-39-5	8270C	ND		5.0	0.40	ug/L	1
Isophorone	78-59-1	8270C	ND		5.0	0.50	ug/L	1
N-Nitrosodi-n-propylamine	621-64-7	8270C	ND		5.0	0.40	ug/L	1
N-Nitrosodimethylamine	62-75-9	8270C	ND		5.0	0.70	ug/L	1

Footnote(s): *NC Cert #387, NELAC Cert #E87358

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"
B = Detected in the method blank
J = Estimated result less than the PQL
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria

Semivolatile Organic Compounds by GC/MS

Client: **ARM Environmental Services, Inc.**
Laboratory ID: **GI20011-001**
Description: **MW-2**
Matrix: **Aqueous**
Date Sampled: **09/19/2005 1145**
Date Received: **09/19/2005**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3520C	8270C	1	09/25/2005 1330	DC	09/22/2005 2100	30945

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
N-Nitrosodiphenylamine/Diphenylamine	86-30-6	8270C	ND		5.0	2.1	ug/L	1
Naphthalene	**91-20-3**	**8270C**	**16**		**5.0**	**0.60**	**ug/L**	**1**
Nitrobenzene	98-95-3	8270C	ND		5.0	0.50	ug/L	1
2-Nitrophenol	88-75-5	8270C	ND		10	1.2	ug/L	1
4-Nitrophenol	100-02-7	8270C	ND		25	2.5	ug/L	1
Pentachlorophenol	87-86-5	8270C	ND		25	2.9	ug/L	1
Phenanthrene	**85-01-8**	**8270C**	**10**		**5.0**	**0.50**	**ug/L**	**1**
Phenol	**108-95-2**	**8270C**	**7.2**		**5.0**	**0.50**	**ug/L**	**1**
Pyrene	129-00-0	8270C	ND		5.0	0.60	ug/L	1
1,2,4-Trichlorobenzene	120-82-1	8270C	ND		5.0	0.50	ug/L	1
2,4,6-Trichlorophenol	88-06-2	8270C	ND		5.0	0.40	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
2,4,6-Tribromophenol		91	30-130
2-Fluorobiphenyl		81	30-130
2-Fluorophenol		78	30-130
Nitrobenzene-d5		89	30-130
Phenol-d5		85	30-130
Terphenyl-d14		57	30-130

Footnote(s): *NC Cert #387, NELAC Cert #E87358

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
B = Detected in the method blank
J = Estimated result less than the PQL
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Library Search

Client: **ARM Environmental Services, Inc.**
Laboratory ID: **GI20011-001**
Description: **MW-2**
Matrix: **Aqueous**
Date Sampled: **09/19/2005 1145**
Date Received: **09/19/2005**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3520C	8270C	1	09/25/2005 1330	DC		31072

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Cyclopentanol, 1-methyl-		8270C	43				ug/L	1
2,3-Butanediol, 2,3-dimethyl-		8270C	130				ug/L	1
Benzene, 4-ethyl-1,2-dimethyl-		8270C	26				ug/L	1
Benzene, 2-ethenyl-1,4-dimethyl-		8270C	22				ug/L	1
Naphthalene, 1-methyl-		8270C	48				ug/L	1
Naphthalene, 1,6-dimethyl-		8270C	76				ug/L	1
Pentadecane, 2,6,10,14-tetramethyl-		8270C	29				ug/L	1

Footnote(s): *NC Cert #387, NELAC Cert #E87358

PQL = Practical quantitation limit
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E = Quantitation of compound exceeded the calibration range
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N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

MADEP EPH

Client: **ARM Environmental Services, Inc.**
Laboratory ID: **GI20011-001**
Description: **MW-2**
Matrix: **Aqueous**
Date Sampled: **09/19/2005 1145**
Date Received: **09/19/2005**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1		MADEP-EPH-04-1	1	09/23/2005 1730	*		

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
C11 - C22 Aromatics		**MADEP-EPH-04-1**	**520**		**100**	**31**	**ug/L**	**1**
C19 - C36 Aliphatics		MADEP-EPH-04-1	ND		100	31	ug/L	1
C9 - C18 Aliphatics		**MADEP-EPH-04-1**	**130**		**100**	**31**	**ug/L**	**1**

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
2-Bromonaphthalene		63	40-140
2-Fluorobiphenyl		74	40-140
C - 35		54	40-140
o - Terphenyl		84	40-140

Footnote(s): *NC Cert #387, NELAC Cert #E87358

PQL = Practical quantitation limit
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N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

MADEP VPH

Client: **ARM Environmental Services, Inc.**
Laboratory ID: **GI20011-001**
Description: **MW-2**
Matrix: **Aqueous**
Date Sampled: **09/19/2005 1145**
Date Received: **09/19/2005**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1		MADEP-VPH-04-1.1	1	09/23/2005 0015	*		

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
C9 - C10 Aromatics		**MADEP-VPH-04-1.1**	**140**		**100**	**3.4**	**ug/L**	**1**
C5 - C8 Aliphatics		**MADEP-VPH-04-1.1**	**170**		**100**	**18**	**ug/L**	**1**
C9 - C12 Aliphatics		**MADEP-VPH-04-1.1**	**79**	**J**	**100**	**16**	**ug/L**	**1**

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
2,5-Dibromotoluene (FID)		85	70-130
2,5-Dibromotoluene (PID)		107	70-130

Footnote(s): *NC Cert #387, NELAC Cert #E87358

PQL = Practical quantitation limit
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Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"
B = Detected in the method blank
J = Estimated result less than the PQL
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria

Volatile Organic Compounds by GC/MS

Client: **ARM Environmental Services, Inc.**
Laboratory ID: **GI20011-002**
Description: **MW-1**
Matrix: **Aqueous**
Date Sampled: **09/19/2005 1215**
Date Received: **09/19/2005**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	09/20/2005 1726	CMS		30869

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Benzene	**71-43-2**	**8260B**	**12**		**1.0**	**0.13**	**ug/L**	**1**
Chlorobenzene	108-90-7	8260B	ND		1.0	0.14	ug/L	1
1,2-Dibromoethane (EDB)	106-93-4	8260B	ND		1.0	0.30	ug/L	1
1,2-Dichlorobenzene	95-50-1	8260B	ND		1.0	0.30	ug/L	1
1,3-Dichlorobenzene	541-73-1	8260B	ND		1.0	0.30	ug/L	1
1,4-Dichlorobenzene	106-46-7	8260B	ND		1.0	0.20	ug/L	1
Diisopropyl ether (IPE)	**108-20-3**	**8260B**	**84**		**1.0**	**0.40**	**ug/L**	**1**
Ethylbenzene	**100-41-4**	**8260B**	**55**		**1.0**	**0.17**	**ug/L**	**1**
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		1.0	0.40	ug/L	1
Toluene	**108-88-3**	**8260B**	**1.4**		**1.0**	**0.17**	**ug/L**	**1**
Xylenes (total)	**1330-20-7**	**8260B**	**15**		**1.0**	**0.22**	**ug/L**	**1**

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		87	52-138
Bromofluorobenzene		88	70-147
Toluene-d8		90	76-125

Footnote(s): *NC Cert #387, NELAC Cert #E87358

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N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Semivolatile Organic Compounds by GC/MS

Client: **ARM Environmental Services, Inc.** Laboratory ID: **GI20011-002**
Description: **MW-1** Matrix: **Aqueous**
Date Sampled: **09/19/2005 1215**
Date Received: **09/19/2005**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3520C	8270C	1	09/25/2005 1358	DC	09/22/2005 2100	30945

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Acenaphthene	**83-32-9**	**8270C**	**8.2**		**5.0**	**0.50**	**ug/L**	**1**
Acenaphthylene	208-96-8	8270C	ND		5.0	0.50	ug/L	1
Anthracene	120-12-7	8270C	ND		5.0	0.40	ug/L	1
Benzidine	92-87-5	8270C	ND		25	9.4	ug/L	1
Benzo(a)anthracene	56-55-3	8270C	ND		5.0	0.80	ug/L	1
Benzo(a)pyrene	50-32-8	8270C	ND		5.0	1.4	ug/L	1
Benzo(b)fluoranthene	205-99-2	8270C	ND		5.0	0.90	ug/L	1
Benzo(g,h,i)perylene	191-24-2	8270C	ND		5.0	0.40	ug/L	1
Benzo(k)fluoranthene	207-08-9	8270C	ND		5.0	1.0	ug/L	1
4-Bromophenyl phenyl ether	101-55-3	8270C	ND		5.0	0.60	ug/L	1
Butyl benzyl phthalate	85-68-7	8270C	ND		10	0.60	ug/L	1
4-Chloro-3-methyl phenol	59-50-7	8270C	ND		5.0	0.40	ug/L	1
bis(2-Chloroethoxy)methane	111-91-1	8270C	ND		5.0	0.70	ug/L	1
bis(2-Chloroethyl)ether	111-44-4	8270C	ND		5.0	0.60	ug/L	1
bis(2-Chloroisopropyl)ether	108-60-1	8270C	ND		5.0	0.50	ug/L	1
2-Chloronaphthalene	91-58-7	8270C	ND		5.0	0.50	ug/L	1
2-Chlorophenol	95-57-8	8270C	ND		5.0	0.50	ug/L	1
4-Chlorophenyl phenyl ether	7005-72-3	8270C	ND		5.0	0.50	ug/L	1
Chrysene	218-01-9	8270C	ND		5.0	0.90	ug/L	1
Di-n-butyl phthalate	84-74-2	8270C	ND		5.0	1.4	ug/L	1
Di-n-octylphthalate	117-84-0	8270C	ND		5.0	0.90	ug/L	1
Dibenzo(a,h)anthracene	53-70-3	8270C	ND		5.0	0.60	ug/L	1
1,2-Dichlorobenzene	95-50-1	8270C	ND		5.0	0.50	ug/L	1
1,3-Dichlorobenzene	541-73-1	8270C	ND		5.0	0.50	ug/L	1
1,4-Dichlorobenzene	106-46-7	8270C	ND		5.0	0.60	ug/L	1
3,3'-Dichlorobenzidine	91-94-1	8270C	ND		25	5.9	ug/L	1
2,4-Dichlorophenol	120-83-2	8270C	ND		5.0	0.40	ug/L	1
Diethylphthalate	84-66-2	8270C	ND		5.0	0.50	ug/L	1
Dimethyl phthalate	131-11-3	8270C	ND		5.0	0.50	ug/L	1
2,4-Dimethylphenol	105-67-9	8270C	ND		5.0	0.80	ug/L	1
4,6-Dinitro-2-methylphenol	534-52-1	8270C	ND		25	1.5	ug/L	1
2,4-Dinitrophenol	51-28-5	8270C	ND		25	1.1	ug/L	1
2,4-Dinitrotoluene	121-14-2	8270C	ND		10	1.0	ug/L	1
2,6-Dinitrotoluene	606-20-2	8270C	ND		10	1.1	ug/L	1
1,2-Diphenylhydrazine(as azobenzene)	103-33-3	8270C	ND		5.0	0.70	ug/L	1
bis(2-Ethylhexyl)phthalate	117-81-7	8270C	ND		5.0	3.8	ug/L	1
Fluoranthene	206-44-0	8270C	ND		5.0	0.60	ug/L	1
Fluorene	86-73-7	8270C	ND		5.0	0.50	ug/L	1
Hexachlorobenzene	118-74-1	8270C	ND		5.0	0.50	ug/L	1
Hexachlorobutadiene	87-68-3	8270C	ND		5.0	0.50	ug/L	1
Hexachlorocyclopentadiene	77-47-4	8270C	ND		25	2.1	ug/L	1
Hexachloroethane	67-72-1	8270C	ND		5.0	0.50	ug/L	1
Indeno(1,2,3-c,d)pyrene	193-39-5	8270C	ND		5.0	0.40	ug/L	1
Isophorone	78-59-1	8270C	ND		5.0	0.50	ug/L	1
N-Nitrosodi-n-propylamine	621-64-7	8270C	ND		5.0	0.40	ug/L	1
N-Nitrosodimethylamine	62-75-9	8270C	ND		5.0	0.70	ug/L	1

Footnote(s): *NC Cert #387, NELAC Cert #E87358

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P = The RPD between two GC columns exceeds 40%
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"
N = Recovery is out of criteria

Semivolatile Organic Compounds by GC/MS

Client: **ARM Environmental Services, Inc.**
Laboratory ID: **GI20011-002**
Description: **MW-1**
Matrix: **Aqueous**
Date Sampled: **09/19/2005 1215**
Date Received: **09/19/2005**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3520C	8270C	1	09/25/2005 1358	DC	09/22/2005 2100	30945

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
N-Nitrosodiphenylamine/Diphenylamine	86-30-6	8270C	ND		5.0	2.1	ug/L	1
Naphthalene	**91-20-3**	**8270C**	**27**		**5.0**	**0.60**	**ug/L**	**1**
Nitrobenzene	98-95-3	8270C	ND		5.0	0.50	ug/L	1
2-Nitrophenol	88-75-5	8270C	ND		10	1.2	ug/L	1
4-Nitrophenol	100-02-7	8270C	ND		25	2.5	ug/L	1
Pentachlorophenol	87-86-5	8270C	ND		25	2.9	ug/L	1
Phenanthrene	**85-01-8**	**8270C**	**11**		**5.0**	**0.50**	**ug/L**	**1**
Phenol	108-95-2	8270C	ND		5.0	0.50	ug/L	1
Pyrene	129-00-0	8270C	ND		5.0	0.60	ug/L	1
1,2,4-Trichlorobenzene	120-82-1	8270C	ND		5.0	0.50	ug/L	1
2,4,6-Trichlorophenol	88-06-2	8270C	ND		5.0	0.40	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
2,4,6-Tribromophenol		91	30-130
2-Fluorobiphenyl		80	30-130
2-Fluorophenol		84	30-130
Nitrobenzene-d5		93	30-130
Phenol-d5		89	30-130
Terphenyl-d14		46	30-130

Footnote(s): *NC Cert #387, NELAC Cert #E87358

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J = Estimated result less than the PQL
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Library Search

Client: **ARM Environmental Services, Inc.**
Laboratory ID: ***GI20011-002***
Description: **MW-1**
Matrix: **Aqueous**
Date Sampled: **09/19/2005 1215**
Date Received: **09/19/2005**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3520C	8270C	1	09/25/2005 1358	DC		31072

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Ethyl Acetate		8270C	88				ug/L	1
Ethylbenzene		8270C	81				ug/L	1
Indane		8270C	81				ug/L	1
Benzene, 2-ethenyl-1,4-dimethyl-		8270C	53				ug/L	1
2-Ethyl-2,3-dihydro-1H-indene		8270C	33				ug/L	1
Tridecane		8270C	34				ug/L	1
Naphthalene, 1-methyl-		8270C	59				ug/L	1
Naphthalene, 1,6-dimethyl-		8270C	58				ug/L	1
Naphthalene, 1,7-dimethyl-		8270C	73				ug/L	1
Naphthalene, 2,7-dimethyl-		8270C	39				ug/L	1
Pentadecane		8270C	46				ug/L	1
Naphthalene, 2,3,6-trimethyl-		8270C	36				ug/L	1
Hexadecane		8270C	49				ug/L	1
Tridecane		8270C	100				ug/L	1
Hexadecane, 7,9-dimethyl-		8270C	72				ug/L	1
Nonadecane		8270C	46				ug/L	1
Eicosane		8270C	37				ug/L	1

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Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

MADEP EPH

Client: **ARM Environmental Services, Inc.**
Laboratory ID: **GI20011-002**
Description: **MW-1**
Matrix: **Aqueous**
Date Sampled: **09/19/2005 1215**
Date Received: **09/19/2005**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1		MADEP-EPH-04-1	1	09/23/2005 2357	*		

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
C11 - C22 Aromatics		**MADEP-EPH-04-1**	**850**		**100**	**31**	**ug/L**	**1**
C19 - C36 Aliphatics		**MADEP-EPH-04-1**	**86**	**J**	**100**	**31**	**ug/L**	**1**
C9 - C18 Aliphatics		**MADEP-EPH-04-1**	**630**		**100**	**31**	**ug/L**	**1**

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
2-Bromonaphthalene		53	40-140
2-Fluorobiphenyl		83	40-140
C - 35		50	40-140
o - Terphenyl		100	40-140

Footnote(s): *NC Cert #387, NELAC Cert #E87358

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Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

MADEP VPH

Client: **ARM Environmental Services, Inc.**
Laboratory ID: **GI20011-002**
Description: **MW-1**
Matrix: **Aqueous**
Date Sampled: **09/19/2005 1215**
Date Received: **09/19/2005**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1		MADEP-VPH-04-1.1	1	09/23/2005 2341	*		

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
C9 - C10 Aromatics		**MADEP-VPH-04-1.1**	**300**		**100**	**3.4**	**ug/L**	**1**
C5 - C8 Aliphatics		**MADEP-VPH-04-1.1**	**360**		**100**	**18**	**ug/L**	**1**
C9 - C12 Aliphatics		**MADEP-VPH-04-1.1**	**220**		**100**	**16**	**ug/L**	**1**

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
2,5-Dibromotoluene (FID)		86	70-130
2,5-Dibromotoluene (PID)		108	70-130

Footnote(s): *NC Cert #387, NELAC Cert #E87358

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N = Recovery is out of criteria

Subcontracted Data

TestAmerica
ANALYTICAL TESTING CORPORATION
2960 Foster Creighton Road Nashville, TN 37204 * 800-765-0980 * Fax 615-726-3404

October 01, 2005

Client:	Shealy Environmental Services (8677) 106 Vantage Point Drive Cayce, SC 29033	Work Order: Project Name: Project Nbr: Date Received:	NOI1972 Shealy Environmental Services- NC [none] 09/20/05
Attn:	Alison Edwards		

SAMPLE IDENTIFICATION	LAB NUMBER	COLLECTION DATE AND TIME
MW-2	NOI1972-01	09/19/05 11:45
MW-1	NOI1972-02	09/19/05 12:15

An executed copy of the chain of custody, the project quality control data, and the sample receipt form are also included as an addendum to this report. If you have any questions relating to this analytical report, please contact your Laboratory Project Manager at 1-800-765-0980. Any opinions, if expressed, are outside the scope of the Laboratory's accredidation.

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Report Approved By:

Gail Lage

Gail Lage
Senior Project Manager

TestAmerica
ANALYTICAL TESTING CORPORATION
2960 Foster Creighton Road Nashville, TN 37204 * 800-765-0980 * Fax 615-726-3404

Client	Shealy Environmental Services (8677)	Work Order:	NOI1972
	106 Vantage Point Drive	Project Name:	Shealy Environmental Services- NC
	Cayce, SC 29033	Project Number:	[none]
Attn	Alison Edwards	Received:	09/20/05 08:00

ANALYTICAL REPORT

Analyte	Result	Flag	Units	MDL	MRL	Dilution Factor	Analysis Date/Time	Method	Analyst	Batch
Sample ID: NOI1972-01 (MW-2 - Water) Sampled: 09/19/05 11:45										
Extractable Petroleum Hydrocarbons										
C9 - C18 Aliphatic Hydrocarbons	129		ug/L	30.0	100	1	09/23/05 17:30	MADEP EPH	lrw	5093081
C19 - C36 Aliphatic Hydrocarbons	ND		ug/L	12.0	100	1	09/23/05 17:30	MADEP EPH	lrw	5093081
C11 - C22 Aromatic Hydrocarbons, Unadjust	522		ug/L	31.0	100	1	09/23/05 17:58	MADEP EPH	lrw	5093081
Surrogate: 1-Chlorooctadecane (40-140%)	*54 %*		-	-		*1*	*09/23/05 17:30*	*MADEP EPH*	*lrw*	*5093081*
Surrogate: o-Terphenyl (40-140%)	*84 %*		-	-		*1*	*09/23/05 17:58*	*MADEP EPH*	*lrw*	*5093081*
Surrogate: 2-Fluorobiphenyl (40-140%)	*74 %*		-	-		*1*	*09/23/05 17:58*	*MADEP EPH*	*lrw*	*5093081*
Surrogate: 2-Bromonaphthalene (40-140%)	*63 %*		-	-		*1*	*09/23/05 17:58*	*MADEP EPH*	*lrw*	*5093081*
Purgeable Petroleum Hydrocarbons										
C5 - C8 Aliphatic Hydrocarbons, Unadjusted	173		ug/L	50.0	100	1	09/29/05 00:15	MADEP VPH	RLB	5094395
C9 - C10 Aromatic Hydrocarbons	140		ug/L	50.0	100	1	09/29/05 00:15	MADEP VPH	RLB	5094395
C9 - C12 Aliphatic Hydrocarbons	79.0	J	ug/L	50.0	100	1	09/29/05 00:15	MADEP VPH	RLB	[CALC]
Surrogate: 2,5-Dibromotoluene (FID) (70-130%)	*85 %*		-	-		*1*	*09/29/05 00:15*	*MADEP VPH*	*RLB*	*5094395*
Surrogate: 2,5-Dibromotoluene (PID) (70-130%)	*107 %*		-	-		*1*	*09/29/05 00:15*	*MADEP VPH*	*RLB*	*5094395*
Sample ID: NOI1972-02RE1 (MW-1 - Water) Sampled: 09/19/05 12:15										
Extractable Petroleum Hydrocarbons										
C9 - C18 Aliphatic Hydrocarbons	633		ug/L	60.0	200	2	09/25/05 23:57	MADEP EPH	lrw	5093081
C19 - C36 Aliphatic Hydrocarbons	86.5	J	ug/L	12.0	100	1	09/23/05 18:25	MADEP EPH	lrw	5093081
C11 - C22 Aromatic Hydrocarbons, Unadjust	853		ug/L	31.0	100	1	09/23/05 18:52	MADEP EPH	lrw	5093081
Surrogate: 1-Chlorooctadecane (40-140%)	*50 %*		-	-		*1*	*09/23/05 18:25*	*MADEP EPH*	*lrw*	*5093081*
Surrogate: 1-Chlorooctadecane (40-140%)	*88 %*		-	-		*2*	*09/25/05 23:57*	*MADEP EPH*	*lrw*	*5093081*
Surrogate: o-Terphenyl (40-140%)	*100 %*		-	-		*1*	*09/23/05 18:52*	*MADEP EPH*	*lrw*	*5093081*
Surrogate: 2-Fluorobiphenyl (40-140%)	*83 %*		-	-		*1*	*09/23/05 18:52*	*MADEP EPH*	*lrw*	*5093081*
Surrogate: 2-Bromonaphthalene (40-140%)	*53 %*		-	-		*1*	*09/23/05 18:52*	*MADEP EPH*	*lrw*	*5093081*
Purgeable Petroleum Hydrocarbons										
C5 - C8 Aliphatic Hydrocarbons, Unadjusted	359		ug/L	50.0	100	1	09/28/05 23:41	MADEP VPH	RLB	5094395
C9 - C10 Aromatic Hydrocarbons	301		ug/L	50.0	100	1	09/28/05 23:41	MADEP VPH	RLB	5094395
C9 - C12 Aliphatic Hydrocarbons	217		ug/L	50.0	100	1	09/28/05 23:41	MADEP VPH	RLB	[CALC]
Surrogate: 2,5-Dibromotoluene (FID) (70-130%)	*86 %*		-	-		*1*	*09/28/05 23:41*	*MADEP VPH*	*RLB*	*5094395*
Surrogate: 2,5-Dibromotoluene (PID) (70-130%)	*108 %*		-	-		*1*	*09/28/05 23:41*	*MADEP VPH*	*RLB*	*5094395*

TestAmerica
ANALYTICAL TESTING CORPORATION
2960 Foster Creighton Road Nashville, TN 37204 * 800-765-0980 * Fax 615-726-3404

Client	Shealy Environmental Services (8677)	Work Order:	NOI1972
	106 Vantage Point Drive	Project Name:	Shealy Environmental Services- NC
	Cayce, SC 29033	Project Number:	[none]
Attn	Alison Edwards	Received:	09/20/05 08:00

SAMPLE EXTRACTION DATA

Parameter	Batch	Lab Number	Wt/Vol Extracted	Extracted Vol	Date	Analyst	Extraction Method
Extractable Petroleum Hydrocarbons							
MADEP EPH	5093081	NOI1972-01	1000.00	1.00	09/21/05 08:20	CEC	MADEP
MADEP EPH	5093081	NOI1972-02	1000.00	1.00	09/21/05 08:20	CEC	MADEP
MADEP EPH	5093081	NOI1972-02RE1	1000.00	1.00	09/21/05 08:20	CEC	MADEP
Purgeable Petroleum Hydrocarbons							
MADEP VPH	5094395	NOI1972-01	5.00	5.00	09/26/05 18:36	JJR	MADEP
MADEP VPH	5094395	NOI1972-02	5.00	5.00	09/26/05 18:36	JJR	MADEP

TestAmerica
ANALYTICAL TESTING CORPORATION
2960 Foster Creighton Road Nashville, TN 37204 * 800-765-0980 * Fax 615-726-3404

Client	Shealy Environmental Services (8677)	Work Order:	NOI1972
	106 Vantage Point Drive	Project Name:	Shealy Environmental Services- NC
	Cayce, SC 29033	Project Number:	[none]
Attn	Alison Edwards	Received:	09/20/05 08:00

PROJECT QUALITY CONTROL DATA
Blank

Analyte	Blank Value	Q	Units	Q.C. Batch	Lab Number	Analyzed Date/Time
Extractable Petroleum Hydrocarbons						
5093081-BLK2						
C9 - C18 Aliphatic Hydrocarbons	<30.0		ug/L	5093081	5093081-BLK2	09/22/05 18:56
C19 - C36 Aliphatic Hydrocarbons	<12.0		ug/L	5093081	5093081-BLK2	09/22/05 18:56
C11 - C22 Aromatic Hydrocarbons, Unadjus	<31.0		ug/L	5093081	5093081-BLK2	09/22/05 19:23
Surrogate: 1-Chlorooctadecane	58%			5093081	5093081-BLK2	09/22/05 18:56
Surrogate: o-Terphenyl	70%			5093081	5093081-BLK2	09/22/05 19:23
Surrogate: 2-Fluorobiphenyl	74%			5093081	5093081-BLK2	09/22/05 19:23
Surrogate: 2-Bromonaphthalene	68%			5093081	5093081-BLK2	09/22/05 19:23
Purgeable Petroleum Hydrocarbons						
5094395-BLK1						
C5 - C8 Aliphatic Hydrocarbons, Unadjuste	<50.0		ug/L	5094395	5094395-BLK1	09/28/05 22:32
C9 - C10 Aromatic Hydrocarbons	<50.0		ug/L	5094395	5094395-BLK1	09/28/05 22:32
C9 - C12 Aliphatic Hydrocarbons, Unadjust	<50.0		ug/L	5094395	5094395-BLK1	09/28/05 22:32
Surrogate: 2,5-Dibromotoluene (FID)	114%			5094395	5094395-BLK1	09/28/05 22:32
Surrogate: 2,5-Dibromotoluene (PID)	116%			5094395	5094395-BLK1	09/28/05 22:32

TestAmerica
ANALYTICAL TESTING CORPORATION
2960 Foster Creighton Road Nashville, TN 37204 * 800-765-0980 * Fax 615-726-3404

Client	Shealy Environmental Services (8677)	Work Order:	NOI1972
	106 Vantage Point Drive	Project Name:	Shealy Environmental Services- NC
	Cayce, SC 29033	Project Number:	[none]
Attn	Alison Edwards	Received:	09/20/05 08:00

PROJECT QUALITY CONTROL DATA
LCS

Analyte	Known Val.	Analyzed Val	Q	Units	% Rec.	Target Range	Batch	Analyzed Date/Time
Extractable Petroleum Hydrocarbons								
5093081-BS2								
C9 - C18 Aliphatic Hydrocarbons	150	87.3	J	ug/L	58%	40 - 140	5093081	09/22/05 19:50
C19 - C36 Aliphatic Hydrocarbons	200	150		ug/L	75%	40 - 140	5093081	09/22/05 19:50
C11 - C22 Aromatic Hydrocarbons, Unadjustec	425	306		ug/L	72%	40 - 140	5093081	09/22/05 20:18
Surrogate: 1-Chlorooctadecane	20.0	12.9			64%	40 - 140	5093081	09/22/05 19:50
Surrogate: o-Terphenyl	20.0	15.5			78%	40 - 140	5093081	09/22/05 20:18
Surrogate: 2-Fluorobiphenyl	40.0	29.5			74%	40 - 140	5093081	09/22/05 20:18
Surrogate: 2-Bromonaphthalene	40.0	27.9			70%	40 - 140	5093081	09/22/05 20:18
Purgeable Petroleum Hydrocarbons								
5094395-BS1								
C5 - C8 Aliphatic Hydrocarbons, Unadjusted	300	276		ug/L	92%	70 - 130	5094395	09/28/05 20:32
C9 - C10 Aromatic Hydrocarbons	100	73.2		ug/L	73%	70 - 130	5094395	09/28/05 20:32
C9 - C12 Aliphatic Hydrocarbons, Unadjusted	200	169		ug/L	84%	70 - 130	5094395	09/28/05 20:32
Surrogate: 2,5-Dibromotoluene (FID)	140	245	Z2		175%	70 - 130	5094395	09/28/05 20:32
Surrogate: 2,5-Dibromotoluene (PID)	140	239	Z2		171%	70 - 130	5094395	09/28/05 20:32

TestAmerica
ANALYTICAL TESTING CORPORATION
2960 Foster Creighton Road Nashville, TN 37204 * 800-765-0980 * Fax 615-726-3404

Client	Shealy Environmental Services (8677)	Work Order:	NOI1972
	106 Vantage Point Drive	Project Name:	Shealy Environmental Services- NC
	Cayce, SC 29033	Project Number:	[none]
Attn	Alison Edwards	Received:	09/20/05 08:00

PROJECT QUALITY CONTROL DATA
LCS Dup

Analyte	Orig. Val.	Duplicate	Q	Units	Spike Conc	% Rec.	Target Range	RPD	Limit	Batch	Sample Duplicated	Analyzed Date/Time
Extractable Petroleum Hydrocarbons												
5093081-BSD2												
C9 - C18 Aliphatic Hydrocarbons		103		ug/L	150	69%	40 - 140	17	50	5093081		09/22/05 20:45
C19 - C36 Aliphatic Hydrocarbons		137		ug/L	200	68%	40 - 140	9	50	5093081		09/22/05 20:45
C11 - C22 Aromatic Hydrocarbons, Unadjuste		355		ug/L	425	84%	40 - 140	15	50	5093081		09/22/05 21:12
Surrogate: 1-Chlorooctadecane		13.8		ug/L	20.0	69%	40 - 140			5093081		09/22/05 20:45
Surrogate: o-Terphenyl		18.9		ug/L	20.0	94%	40 - 140			5093081		09/22/05 21:12
Surrogate: 2-Fluorobiphenyl		34.3		ug/L	40.0	86%	40 - 140			5093081		09/22/05 21:12
Surrogate: 2-Bromonaphthalene		15.8		ug/L	40.0	40%	40 - 140			5093081		09/22/05 21:12
Purgeable Petroleum Hydrocarbons												
5094395-BSD1												
C5 - C8 Aliphatic Hydrocarbons, Unadjusted		315		ug/L	300	105%	70 - 130	13	25	5094395		09/29/05 15:36
C9 - C10 Aromatic Hydrocarbons		101	R	ug/L	100	101%	70 - 130	32	25	5094395		09/29/05 15:36
C9 - C12 Aliphatic Hydrocarbons, Unadjusted		220	R	ug/L	200	110%	70 - 130	26	25	5094395		09/29/05 15:36
Surrogate: 2,5-Dibromotoluene (FID)		148		ug/L	140	106%	70 - 130			5094395		09/29/05 15:36
Surrogate: 2,5-Dibromotoluene (PID)		147		ug/L	140	105%	70 - 130			5094395		09/29/05 15:36

TestAmerica
ANALYTICAL TESTING CORPORATION
2960 Foster Creighton Road Nashville, TN 37204 * 800-765-0980 * Fax 615-726-3404

Client	Shealy Environmental Services (8677)	Work Order:	NOI1972
	106 Vantage Point Drive	Project Name:	Shealy Environmental Services- NC
	Cayce, SC 29033	Project Number:	[none]
Attn	Alison Edwards	Received:	09/20/05 08:00

CERTIFICATION SUMMARY

TestAmerica Analytical - Nashville

Method	Matrix	AIHA	Nelac	North Carolina
MADEP EPH	Water		X	X
MADEP VPH	Water		X	X

Client	Shealy Environmental Services (8677)	Work Order:	NOI1972
	106 Vantage Point Drive	Project Name:	Shealy Environmental Services- NC
	Cayce, SC 29033	Project Number:	[none]
Attn	Alison Edwards	Received:	09/20/05 08:00

DATA QUALIFIERS AND DEFINITIONS

J	Estimated value. Analyte detected at a level less than the Reporting Limit (RL) and greater than or equal to the Method Detection Limit (MDL). The user of this data should be aware that this data is of limited reliability.
R	The RPD exceeded the method control limit due to sample matrix effects. The individual analyte QA/QC recoveries, however, were within acceptance limits.
Z2	Surrogate recovery was above the acceptance limits. Data not impacted.

TestAmerica
ANALYTICAL TESTING CORPORATION
Nashville Division

NOI1972

COOLER RECEIPT FORM **BC#**

Client Name: Healy Env.

Cooler Received/Opened On: 9/20/05 **Accessioned By:** Shane Gambill

Log-in Personnel Signature

1. Temperature of Cooler when triaged: 0.3 Degrees Celsius
2. Were custody seals on outside of cooler?..... YES...NO...NA
   a. If yes, how many and where:_____
3. Were custody seals on containers?..... NO...YES...NA
4. Were the seals intact, signed, and dated correctly?..... YES...NO...NA
5. Were custody papers inside cooler?..... YES...NO...NA
6. Were custody papers properly filled out (ink, signed, etc)?..... YES...NO...NA
7. Did you sign the custody papers in the appropriate place?..... YES...NO...NA
8. What kind of packing material used? Bubblewrap Peanuts Vermiculite Foam Insert Ziplock baggies Paper Other None
9. Cooling process: Ice Ice-pack Ice (direct contact) Dry ice Other None
10. Did all containers arrive in good condition (unbroken)?..... YES...NO...NA
11. Were all container labels complete (#, date, signed, pres., etc)?..... YES...NO...NA
12. Did all container labels and tags agree with custody papers?..... YES...NO...NA
13. Were correct containers used for the analysis requested?..... YES...NO...NA
14. a. Were VOA vials received?..... YES...NO...NA
    b. Was there any observable head space present in any VOA vial?..... NO...YES...NA
15. Was sufficient amount of sample sent in each container?..... YES...NO...NA
16. Were correct preservatives used?..... YES...NO...NA
    If not, record standard ID of preservative used here_____
17. Was residual chlorine present?..... NO...YES...NA
18. Indicate the Airbill Tracking Number (last 4 digits for Fedex only) and Name of Courier below:

Fed-Ex UPS Velocity DHL Route Off-street Misc.

19. If a Non-Conformance exists, see attached or comments below:

8051

BIS = Broken in shipment

SHEALY Chain of Custody Record

SHEALY ENVIRONMENTAL SERVICES, INC.
106 Vantage Point Drive
Cayce, South Carolina 29033
Telephone No. (803) 791-9700 Fax No. (803) 791-9111

Number 47659

Client: ARM Environmental Service	Report to Contact: Tim McCorkle	Telephone No. / Fax No. / E-mail: 704-369-0621 / 704-369-0623	Quote No.
Address: 11164 Downs Road	Sampler's Signature: x Tim McCorkle	Waybill No.	Page 1 of 1
City: Pineville; State: NC; Zip Code: 28134	Printed Name: Tim McCorkle	Analysis (Attach list if more space is needed.)	
Project Name: Vickers Realty			
Project No.	P.O. No.		Lot No. QI20011

Sample ID / Description (Containers for each sample may be combined on one line.)	Date	Time	G=Grab C=Composite	Matrix: Aqueous	Solid	Non-Aqueous	No. of Containers by Preservative Type: Unpres.	H2SO4	HNO3	HCl	NaOH	5035 Kit	602+4 Ethers	625+10 peaks	EPH	VPH						Remarks / Cooler I.D.
MW-2	9-19-05	11:45					2			7			X	X	X	X						7-DAY TAT
MW-1	9-19-05	12:15					2			7			X	X	X	X						

Possible Hazard Identification: ☑ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison ☐ Unknown

Sample Disposal: ☐ Return to Client ☑ Disposal by Lab

Note: All samples are retained for six weeks from receipt unless other arrangements are made.

Turn Around Time Required (Prior lab approval required for expedited TAT.): ☑ Standard ☐ Rush (Specify) 7-DAY TAT

QC Requirements (Specify):

	Date	Time		Date	Time
1. Relinquished by: Tim McCorkle	9-19-05	13:50	1. Received by: [illegible]	9-19-05	1350
2. Relinquished by: [illegible]	9-19-05	1820	2. Received by:	Date	Time
3. Relinquished by:	Date	Time	3. Laboratory received by: [illegible]	9-19-05	1820

Comments:

LAB USE ONLY
Received on ice (Circle) Yes No Ice Pack
Receipt Temp. 5.0 °C

DISTRIBUTION: WHITE & YELLOW-Return to laboratory with Sample(s); PINK-Field/Client Copy

Sample Receipt Checklist

Client: ARM Cooler Inspected by/date: ECC / 9 2010 Lot #: GI 20011

Means of receipt: ☑ SESI ☐ Client ☐ UPS ☐ FedEx ☐ Airborne Exp ☐ Other

Yes ☐	No ☑	NA ☐	1. Were custody seals present on the cooler?
Yes ☐	No ☐	NA ☑	2. If custody seals were present, were they intact and unbroken?

Cooler temperature upon receipt 5.0 °C _____ °C _____ °C _____ °C _____ °C

Method: ☐ Temperature Blank ☑ Against Bottles

Method of coolant: ☑ Wet Ice ☐ Blue Ice ☐ Dry Ice ☐ None

If response is No (or Yes for 13,14,15), an explanation/resolution must be provided.

Yes ☐	No ☐	NA ☑	3. Is the commercial courier's packing slip attached to this form?
Yes ☑	No ☐	NA ☐	4. Were proper custody procedures (relinquished/received) followed?
Yes ☑	No ☐	NA ☐	5. Were sample IDs listed?
Yes ☑	No ☐	NA ☐	6. Was collection date & time listed?
Yes ☑	No ☐	NA ☐	7. Were tests to be performed listed on the COC or was quote # provided?
Yes ☑	No ☐	NA ☐	8. Did all samples arrive in the proper containers for each test?
Yes ☑	No ☐	NA ☐	9. Did all container label information (ID, date, time) agree with COC?
Yes ☑	No ☐	NA ☐	10. Did all containers arrive in good condition (unbroken, lids on, etc.)?
Yes ☑	No ☐	NA ☐	11. Was adequate sample volume available?
Yes ☐	No ☑	NA ☐	12. Were all samples received within ½ the holding time or 48 hours, whichever comes first?
Yes ☐	No ☑	NA ☐	13. Were any samples containers missing?
Yes ☐	No ☑	NA ☐	14. Were there any excess samples not listed on COC?
Yes ☐	No ☑	NA ☐	15. Were bubbles present >"pea-size" (¼"or 6mm in diameter) in any VOA vials?
Yes ☐	No ☐	NA ☑	16. Were all metals/O&G/HEM/nutrient samples received at a pH of <2?
Yes ☐	No ☐	NA ☑	17. Were all cyanide and/or sulfide samples received at a pH >12?
Yes ☐	No ☐	NA ☑	18. Were all applicable NH3/TKN/cyanide/BNA/pest/PCB/herb (<0.2 mg/L) and toxicity (<0.1 mg/L) samples free of residual chlorine?
Yes ☐	No ☐	NA ☑	19. Were collection temperatures documented on the COC for NC samples?

Sample Preservation (Must be completed for any sample(s) incorrectly preserved or with headspace.)

Sample(s) _____ were received incorrectly preserved and were adjusted accordingly in sample receiving.

Sample(s) _____ were received with bubbles >6 mm in diameter.

Sample(s) _____ were received with TRC >0.2 mg/L for NH3/ TKN/cyanide/BNA/pest/PCB/herb.

Toxicity sample(s) _____ were received with TRC >0.1 mg/L and were analyzed by method 330.5.

Corrective Action taken, if necessary:

Was client notified: Yes ☐ No ☐ Did client respond: Yes ☐ No ☐

SESI employee: _____ Date of response: _____

Comments: _____

SHEALY ENVIRONMENTAL SERVICES, INC.

Report of Analysis

ARM Environmental Services, Inc.
11164 Downs Road
Pineville, NC 28134
Attention: Tim McCorkle

Project Name: **Vickers Realty**

Lot Number: **GI17012**
Date Completed: **09/30/2005**

Alison Bragan Edwards
Project Manager

This report shall not be reproduced, except in its entirety, without the written approval of Shealy Environmental Services, Inc.

The following non-paginated documents are considered part of this report: Chain of Custody Record and Sample Receipt Checklist.

Case Narrative
ARM Environmental Services, Inc.
Lot Number: GI17012

This Report of Analysis contains the analytical result(s) for the sample(s) listed on the Sample Summary following this Case Narrative. The sample receiving date is documented in the header information associated with each sample.

Sample receipt, sample analysis, and data review have been performed in accordance with the most current approved NELAC standards, the Shealy Environmental Services, Inc. ("Shealy") Quality Assurance Management Plan (QAMP), standard operating procedures (SOPs), and Shealy policies. Any exceptions to the NELAC standards, the QAMP, SOPs or policies are qualified on the results page or discussed below.

If you have any questions regarding this report please contact the Shealy Project Manager listed on the cover page.

VOC
The 602 method of compounds has been reported by EPA method 8260B. This GC/MS method is more accurate and reliable and the PQLs are equivalent. The NC UST Guidelines (Version 1.2 September 1, 2003) allows for alternative EPA methods to be used under the above stated conditions.

SVOC
The 625 method of compounds has been reported by EPA method 8260B. This GC/MS method is more accurate and reliable and the PQLs are equivalent. The NC UST Guidelines (Version 1.2 September 1, 2003) allows for alternative EPA methods to be used under the above stated conditions.

SHEALY ENVIRONMENTAL SERVICES, INC.

Sample Summary
ARM Environmental Services, Inc.
Lot Number: GI17012

Sample Number	Sample ID	Matrix	Date Sampled
001	MW-3	Aqueous	09/16/2005 1045

(1 sample)

Executive Summary
ARM Environmental Services, Inc.
Lot Number: GI17012

Sample	Sample ID	Matrix	Parameter	Method	Result	Q	Units	Page
001	MW-3	Aqueous	Benzene	8260B	0.77	J	ug/L	5
001	MW-3	Aqueous	Diisopropyl ether (IPE)	8260B	9.2		ug/L	5
001	MW-3	Aqueous	Ethylbenzene	8260B	0.81	J	ug/L	5
001	MW-3	Aqueous	Methyl tertiary butyl ether (MTBE)	8260B	1.4		ug/L	5
001	MW-3	Aqueous	Toluene	8260B	3.2		ug/L	5
001	MW-3	Aqueous	Xylenes (total)	8260B	0.31	J	ug/L	5
001	MW-3	Aqueous	Acenaphthene	8270C	9.7		ug/L	6
001	MW-3	Aqueous	Fluorene	8270C	1.2	J	ug/L	6
001	MW-3	Aqueous	Naphthalene	8270C	18		ug/L	7
001	MW-3	Aqueous	Phenanthrene	8270C	11		ug/L	7
001	MW-3	Aqueous	Phenol	8270C	3.4	J	ug/L	7
001	MW-3	Aqueous	Ethyl Acetate	8270C	170		ug/L	8
001	MW-3	Aqueous	Benzene, 2-ethenyl-1,4-dimethyl-	8270C	28		ug/L	8
001	MW-3	Aqueous	Naphthalene, 1-methyl-	8270C	94		ug/L	8
001	MW-3	Aqueous	Dodecane, 2,6,10-trimethyl-	8270C	22		ug/L	8
001	MW-3	Aqueous	Biphenyl	8270C	20		ug/L	8
001	MW-3	Aqueous	Naphthalene, 2,6-dimethyl-	8270C	62		ug/L	8
001	MW-3	Aqueous	Naphthalene, 1,6,7-trimethyl-	8270C	24		ug/L	8
001	MW-3	Aqueous	Pentadecane, 2,6,10,14-tetramethyl-	8270C	36		ug/L	8
001	MW-3	Aqueous	9H-Fluorene, 1-methyl-	8270C	25		ug/L	8
001	MW-3	Aqueous	C11 - C22 Aromatics	MADEP-EPH-	1200		ug/L	9
001	MW-3	Aqueous	C19 - C36 Aliphatics	MADEP-EPH-	45	J	ug/L	9
001	MW-3	Aqueous	C9 - C18 Aliphatics	MADEP-EPH-	670		ug/L	9
001	MW-3	Aqueous	C9 - C10 Aromatics	MADEP-VPH-	180		ug/L	10

(24 detections)

Volatile Organic Compounds by GC/MS

Client: **ARM Environmental Services, Inc.**
Laboratory ID: **GI17012-001**
Description: **MW-3**
Matrix: **Aqueous**
Date Sampled: **09/16/2005 1045**
Date Received: **09/16/2005**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	09/20/2005 0400	CMS		30838

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Benzene	**71-43-2**	**8260B**	**0.77**	**J**	**1.0**	**0.13**	**ug/L**	**1**
Chlorobenzene	108-90-7	8260B	ND		1.0	0.14	ug/L	1
1,2-Dibromoethane (EDB)	106-93-4	8260B	ND		1.0	0.30	ug/L	1
1,2-Dichlorobenzene	95-50-1	8260B	ND		1.0	0.30	ug/L	1
1,3-Dichlorobenzene	541-73-1	8260B	ND		1.0	0.30	ug/L	1
1,4-Dichlorobenzene	106-46-7	8260B	ND		1.0	0.20	ug/L	1
Diisopropyl ether (IPE)	**108-20-3**	**8260B**	**9.2**		**1.0**	**0.40**	**ug/L**	**1**
Ethylbenzene	**100-41-4**	**8260B**	**0.81**	**J**	**1.0**	**0.17**	**ug/L**	**1**
Methyl tertiary butyl ether (MTBE)	**1634-04-4**	**8260B**	**1.4**		**1.0**	**0.40**	**ug/L**	**1**
Toluene	**108-88-3**	**8260B**	**3.2**		**1.0**	**0.17**	**ug/L**	**1**
Xylenes (total)	**1330-20-7**	**8260B**	**0.31**	**J**	**1.0**	**0.22**	**ug/L**	**1**

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		92	52-138
Bromofluorobenzene		91	70-147
Toluene-d8		95	76-125

Footnote(s): *NC Cert #387, NELAC Cert #E87358

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B = Detected in the method blank
J = Estimated result less than the PQL
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Semivolatile Organic Compounds by GC/MS

Client: **ARM Environmental Services, Inc.**
Laboratory ID: **GI17012-001**
Description: **MW-3**
Matrix: **Aqueous**
Date Sampled: **09/16/2005 1045**
Date Received: **09/16/2005**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3520C	8270C	1	09/25/2005 1208	DC	09/22/2005 2100	30945

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Acenaphthene	**83-32-9**	**8270C**	**9.7**		**5.0**	**0.50**	**ug/L**	**1**
Acenaphthylene	208-96-8	8270C	ND		5.0	0.50	ug/L	1
Anthracene	120-12-7	8270C	ND		5.0	0.40	ug/L	1
Benzidine	92-87-5	8270C	ND		25	9.4	ug/L	1
Benzo(a)anthracene	56-55-3	8270C	ND		5.0	0.80	ug/L	1
Benzo(a)pyrene	50-32-8	8270C	ND		5.0	1.4	ug/L	1
Benzo(b)fluoranthene	205-99-2	8270C	ND		5.0	0.90	ug/L	1
Benzo(g,h,i)perylene	191-24-2	8270C	ND		5.0	0.40	ug/L	1
Benzo(k)fluoranthene	207-08-9	8270C	ND		5.0	1.0	ug/L	1
4-Bromophenyl phenyl ether	101-55-3	8270C	ND		5.0	0.60	ug/L	1
Butyl benzyl phthalate	85-68-7	8270C	ND		10	0.60	ug/L	1
4-Chloro-3-methyl phenol	59-50-7	8270C	ND		5.0	0.40	ug/L	1
bis(2-Chloroethoxy)methane	111-91-1	8270C	ND		5.0	0.70	ug/L	1
bis(2-Chloroethyl)ether	111-44-4	8270C	ND		5.0	0.60	ug/L	1
bis(2-Chloroisopropyl)ether	108-60-1	8270C	ND		5.0	0.50	ug/L	1
2-Chloronaphthalene	91-58-7	8270C	ND		5.0	0.50	ug/L	1
2-Chlorophenol	95-57-8	8270C	ND		5.0	0.50	ug/L	1
4-Chlorophenyl phenyl ether	7005-72-3	8270C	ND		5.0	0.50	ug/L	1
Chrysene	218-01-9	8270C	ND		5.0	0.90	ug/L	1
Di-n-butyl phthalate	84-74-2	8270C	ND		5.0	1.4	ug/L	1
Di-n-octylphthalate	117-84-0	8270C	ND		5.0	0.90	ug/L	1
Dibenzo(a,h)anthracene	53-70-3	8270C	ND		5.0	0.60	ug/L	1
1,2-Dichlorobenzene	95-50-1	8270C	ND		5.0	0.50	ug/L	1
1,3-Dichlorobenzene	541-73-1	8270C	ND		5.0	0.50	ug/L	1
1,4-Dichlorobenzene	106-46-7	8270C	ND		5.0	0.60	ug/L	1
3,3'-Dichlorobenzidine	91-94-1	8270C	ND		25	5.9	ug/L	1
2,4-Dichlorophenol	120-83-2	8270C	ND		5.0	0.40	ug/L	1
Diethylphthalate	84-66-2	8270C	ND		5.0	0.50	ug/L	1
Dimethyl phthalate	131-11-3	8270C	ND		5.0	0.50	ug/L	1
2,4-Dimethylphenol	105-67-9	8270C	ND		5.0	0.80	ug/L	1
4,6-Dinitro-2-methylphenol	534-52-1	8270C	ND		25	1.5	ug/L	1
2,4-Dinitrophenol	51-28-5	8270C	ND		25	1.1	ug/L	1
2,4-Dinitrotoluene	121-14-2	8270C	ND		10	1.0	ug/L	1
2,6-Dinitrotoluene	606-20-2	8270C	ND		10	1.1	ug/L	1
1,2-Diphenylhydrazine(as azobenzene)	103-33-3	8270C	ND		5.0	0.70	ug/L	1
bis(2-Ethylhexyl)phthalate	117-81-7	8270C	ND		5.0	3.8	ug/L	1
Fluoranthene	206-44-0	8270C	ND		5.0	0.60	ug/L	1
Fluorene	**86-73-7**	**8270C**	**1.2**	**J**	**5.0**	**0.50**	**ug/L**	**1**
Hexachlorobenzene	118-74-1	8270C	ND		5.0	0.50	ug/L	1
Hexachlorobutadiene	87-68-3	8270C	ND		5.0	0.50	ug/L	1
Hexachlorocyclopentadiene	77-47-4	8270C	ND		25	2.1	ug/L	1
Hexachloroethane	67-72-1	8270C	ND		5.0	0.50	ug/L	1
Indeno(1,2,3-c,d)pyrene	193-39-5	8270C	ND		5.0	0.40	ug/L	1
Isophorone	78-59-1	8270C	ND		5.0	0.50	ug/L	1
N-Nitrosodi-n-propylamine	621-64-7	8270C	ND		5.0	0.40	ug/L	1
N-Nitrosodimethylamine	62-75-9	8270C	ND		5.0	0.70	ug/L	1

Footnote(s): *NC Cert #387, NELAC Cert #E87358

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E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Semivolatile Organic Compounds by GC/MS

Client: **ARM Environmental Services, Inc.**
Laboratory ID: **GI17012-001**
Description: **MW-3**
Matrix: **Aqueous**
Date Sampled: **09/16/2005 1045**
Date Received: **09/16/2005**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3520C	8270C	1	09/25/2005 1208	DC	09/22/2005 2100	30945

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
N-Nitrosodiphenylamine/Diphenylamine	86-30-6	8270C	ND		5.0	2.1	ug/L	1
Naphthalene	**91-20-3**	**8270C**	**18**		**5.0**	**0.60**	**ug/L**	**1**
Nitrobenzene	98-95-3	8270C	ND		5.0	0.50	ug/L	1
2-Nitrophenol	88-75-5	8270C	ND		10	1.2	ug/L	1
4-Nitrophenol	100-02-7	8270C	ND		25	2.5	ug/L	1
Pentachlorophenol	87-86-5	8270C	ND		25	2.9	ug/L	1
Phenanthrene	**85-01-8**	**8270C**	**11**		**5.0**	**0.50**	**ug/L**	**1**
Phenol	**108-95-2**	**8270C**	**3.4**	**J**	**5.0**	**0.50**	**ug/L**	**1**
Pyrene	129-00-0	8270C	ND		5.0	0.60	ug/L	1
1,2,4-Trichlorobenzene	120-82-1	8270C	ND		5.0	0.50	ug/L	1
2,4,6-Trichlorophenol	88-06-2	8270C	ND		5.0	0.40	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
2,4,6-Tribromophenol		82	30-130
2-Fluorobiphenyl		77	30-130
2-Fluorophenol		77	30-130
Nitrobenzene-d5		84	30-130
Phenol-d5		81	30-130
Terphenyl-d14		73	30-130

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Library Search

Client: **ARM Environmental Services, Inc.**
Laboratory ID: **GI17012-001**
Description: **MW-3**
Matrix: **Aqueous**
Date Sampled: **09/16/2005 1045**
Date Received: **09/16/2005**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3520C	8270C	1	09/25/2005 1208	DC		31005

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Ethyl Acetate		8270C	170				ug/L	1
Benzene, 2-ethenyl-1,4-dimethyl-		8270C	28				ug/L	1
Naphthalene, 1-methyl-		8270C	94				ug/L	1
Dodecane, 2,6,10-trimethyl-		8270C	22				ug/L	1
Biphenyl		8270C	20				ug/L	1
Naphthalene, 2,6-dimethyl-		8270C	62				ug/L	1
Naphthalene, 1,6,7-trimethyl-		8270C	24				ug/L	1
Pentadecane, 2,6,10,14-tetramethyl-		8270C	36				ug/L	1
9H-Fluorene, 1-methyl-		8270C	25				ug/L	1

Footnote(s): *NC Cert #387, NELAC Cert #E87358

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MADEP EPH

Client: **ARM Environmental Services, Inc.**
Laboratory ID: **GI17012-001**
Description: **MW-3**
Matrix: **Aqueous**
Date Sampled: **09/16/2005 1045**
Date Received: **09/16/2005**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1		MADEP-EPH-04-1	1	09/26/2005 0118	*		

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
C11 - C22 Aromatics		**MADEP-EPH-04-1**	**1200**		**100**	**31**	**ug/L**	**1**
C19 - C36 Aliphatics		**MADEP-EPH-04-1**	**45**	**J**	**100**	**31**	**ug/L**	**1**
C9 - C18 Aliphatics		**MADEP-EPH-04-1**	**670**		**100**	**31**	**ug/L**	**1**

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
2-Bromonaphthalene		80	40-140
2-Fluorobiphenyl		77	40-140
C - 35		64	40-140
o - Terphenyl		109	40-140

Footnote(s): *NC Cert #387, NELAC Cert #E87358

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Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

MADEP VPH

Client: **ARM Environmental Services, Inc.**
Laboratory ID: **GI17012-001**
Description: **MW-3**
Matrix: **Aqueous**
Date Sampled: **09/16/2005 1045**
Date Received: **09/16/2005**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1		MADEP-VPH-04-1.1	1	09/22/2005 2237	*		

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
C9 - C10 Aromatics		**MADEP-VPH-04-1.1**	**180**		**100**	**3.4**	**ug/L**	**1**
C5 - C8 Aliphatics		MADEP-VPH-04-1.1	ND		100	18	ug/L	1
C9 - C12 Aliphatics		MADEP-VPH-04-1.1	ND		100	16	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
2,5-Dibromotoluene (FID)	N	145	70-130
2,5-Dibromotoluene (PID)		94	70-130

Footnote(s): *NC Cert #387, NELAC Cert #E87358

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E = Quantitation of compound exceeded the calibration range
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N = Recovery is out of criteria

Subcontracted Data

TestAmerica
ANALYTICAL TESTING CORPORATION
2960 Foster Creighton Road Nashville, TN 37204 * 800-765-0980 * Fax 615-726-3404

September 27, 2005

Client: Shealy Environmental Services (8677)
106 Vantage Point Drive
Cayce, SC 29033
Attn: Alison Edwards

Work Order: NOI1821
Project Name: Shealy Environmental Services- NC
Project Nbr: Vickers Realty
Date Received: 09/17/05

SAMPLE IDENTIFICATION	LAB NUMBER	COLLECTION DATE AND TIME
MW-3	NOI1821-01	09/16/05 10:45

An executed copy of the chain of custody, the project quality control data, and the sample receipt form are also included as an addendum to this report. If you have any questions relating to this analytical report, please contact your Laboratory Project Manager at 1-800-765-0980. Any opinions, if expressed, are outside the scope of the Laboratory's accredidation.

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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:

Jessica Vickers
Senior Project Manager

TestAmerica
ANALYTICAL TESTING CORPORATION
2960 Foster Creighton Road Nashville, TN 37204 * 800-765-0980 * Fax 615-726-3404

Client	Shealy Environmental Services (8677)	Work Order:	NOI1821
	106 Vantage Point Drive	Project Name:	Shealy Environmental Services- NC
	Cayce, SC 29033	Project Number:	Vickers Realty
Attn	Alison Edwards	Received:	09/17/05 08:00

ANALYTICAL REPORT

Analyte	Result	Flag	Units	MDL	MRL	Dilution Factor	Analysis Date/Time	Method	Analyst	Batch
Sample ID: NOI1821-01RE1 (MW-3 - Water) Sampled: 09/16/05 10:45										
Extractable Petroleum Hydrocarbons										
C9 - C18 Aliphatic Hydrocarbons	**671**		ug/L	60.0	200	2	09/26/05 01:18	MADEP EPH	lrw	5093312
C19 - C36 Aliphatic Hydrocarbons	**45.1**	J	ug/L	12.0	100	1	09/25/05 05:03	MADEP EPH	lrw	5093312
C11 - C22 Aromatic Hydrocarbons, Una	**1160**		ug/L	62.0	200	2	09/26/05 01:45	MADEP EPH	lrw	5093312
Surrogate: 1-Chlorooctadecane (40-140%)	*64 %*		-	-	*1*		*09/25/05 05:03*	*MADEP EPH*	*lrw*	*5093312*
Surrogate: 1-Chlorooctadecane (40-140%)	*46 %*		-	-	*2*		*09/26/05 01:18*	*MADEP EPH*	*lrw*	*5093312*
Surrogate: o-Terphenyl (40-140%)	*109 %*		-	-	*2*		*09/26/05 01:45*	*MADEP EPH*	*lrw*	*5093312*
Surrogate: 2-Fluorobiphenyl (40-140%)	*77 %*		-	-	*2*		*09/26/05 01:45*	*MADEP EPH*	*lrw*	*5093312*
Surrogate: 2-Bromonaphthalene (40-140%)	*80 %*		-	-	*2*		*09/26/05 01:45*	*MADEP EPH*	*lrw*	*5093312*
Purgeable Petroleum Hydrocarbons										
C5 - C8 Aliphatic Hydrocarbons, Unadju	ND		ug/L	50.0	100	1	09/22/05 22:37	MADEP VPH	JJR	5093421
C9 - C10 Aromatic Hydrocarbons	**179**		ug/L	50.0	100	1	09/22/05 22:37	MADEP VPH	JJR	5093421
C9 - C12 Aliphatic Hydrocarbons	ND	U	ug/L	50.0	100	1	09/22/05 22:37	MADEP VPH	JJR	[CALC]
Surrogate: 2,5-Dibromotoluene (FID) (70-130%	*145 %*	*ZX*	-	-	*1*		*09/22/05 22:37*	*MADEP VPH*	*JJR*	*5093421*
Surrogate: 2,5-Dibromotoluene (PID) (70-130%	*94 %*		-	-	*1*		*09/22/05 22:37*	*MADEP VPH*	*JJR*	*5093421*

TestAmerica
ANALYTICAL TESTING CORPORATION 2960 Foster Creighton Road Nashville, TN 37204 * 800-765-0980 * Fax 615-726-3404

Client Shealy Environmental Services (8677)
106 Vantage Point Drive
Cayce, SC 29033
Attn Alison Edwards

Work Order: NOI1821
Project Name: Shealy Environmental Services- NC
Project Number: Vickers Realty
Received: 09/17/05 08:00

SAMPLE EXTRACTION DATA

Parameter	Batch	Lab Number	Wt/Vol Extracted	Extracted Vol	Date	Analyst	Extraction Method
Extractable Petroleum Hydrocarbons							
MADEP EPH	5093312	NOI1821-01	1000.00	1.00	09/22/05 10:40	RXT	MADEP
MADEP EPH	5093312	NOI1821-01RE1	1000.00	1.00	09/22/05 10:40	RXT	MADEP
Purgeable Petroleum Hydrocarbons							
MADEP VPH	5093421	NOI1821-01	5.00	5.00	09/16/05 10:45	JJR	MADEP

TestAmerica
ANALYTICAL TESTING CORPORATION
2960 Foster Creighton Road Nashville, TN 37204 * 800-765-0980 * Fax 615-726-3404

Client	Shealy Environmental Services (8677)	Work Order:	NOI1821
	106 Vantage Point Drive	Project Name:	Shealy Environmental Services- NC
	Cayce, SC 29033	Project Number:	Vickers Realty
Attn	Alison Edwards	Received:	09/17/05 08:00

PROJECT QUALITY CONTROL DATA
Blank

Analyte	Blank Value	Q	Units	Q.C. Batch	Lab Number*	Analyzed Date/Time
Extractable Petroleum Hydrocarbons						
5093312-BLK1						
C9 - C18 Aliphatic Hydrocarbons	<30.0		ug/L	5093312	5093312-BLK1	09/25/05 02:21
C19 - C36 Aliphatic Hydrocarbons	<12.0		ug/L	5093312	5093312-BLK1	09/25/05 02:21
C11 - C22 Aromatic Hydrocarbons, Ur	<31.0		ug/L	5093312	5093312-BLK1	09/25/05 02:48
Surrogate: 1-Chlorooctadecane	40%			5093312	5093312-BLK1	09/25/05 02:21
Surrogate: o-Terphenyl	59%			5093312	5093312-BLK1	09/25/05 02:48
Surrogate: 2-Fluorobiphenyl	70%			5093312	5093312-BLK1	09/25/05 02:48
Surrogate: 2-Bromonaphthalene	65%			5093312	5093312-BLK1	09/25/05 02:48
Purgeable Petroleum Hydrocarbons						
5093421-BLK1						
C5 - C8 Aliphatic Hydrocarbons, Unad	<50.0		ug/L	5093421	5093421-BLK1	09/22/05 20:16
C9 - C10 Aromatic Hydrocarbons	<50.0		ug/L	5093421	5093421-BLK1	09/22/05 20:16
C9 - C12 Aliphatic Hydrocarbons, Una	<50.0		ug/L	5093421	5093421-BLK1	09/22/05 20:16
Surrogate: 2,5-Dibromotoluene (FID)	94%			5093421	5093421-BLK1	09/22/05 20:16
Surrogate: 2,5-Dibromotoluene (PID)	95%			5093421	5093421-BLK1	09/22/05 20:16

TestAmerica
ANALYTICAL TESTING CORPORATION
2960 Foster Creighton Road Nashville, TN 37204 * 800-765-0980 * Fax 615-726-3404

Client	Shealy Environmental Services (8677)	Work Order:	NOI1821
	106 Vantage Point Drive	Project Name:	Shealy Environmental Services- NC
	Cayce, SC 29033	Project Number:	Vickers Realty
Attn	Alison Edwards	Received:	09/17/05 08:00

PROJECT QUALITY CONTROL DATA
LCS

Analyte	Known Val.	Analyzed Val	Q	Units	% Rec.	Target Range	Batch	Analyzed Date/Time
Extractable Petroleum Hydrocarbons								
5093312-BS1								
C9 - C18 Aliphatic Hydrocarbons	150	89.1	J	ug/L	59%	40 - 140	5093312	09/25/05 03:15
C19 - C36 Aliphatic Hydrocarbons	200	145		ug/L	72%	40 - 140	5093312	09/25/05 03:15
C11 - C22 Aromatic Hydrocarbons, Unac	425	316		ug/L	74%	40 - 140	5093312	09/25/05 03:42
Surrogate: 1-Chlorooctadecane	20.0	12.8			64%	40 - 140	5093312	09/25/05 03:15
Surrogate: o-Terphenyl	20.0	14.5			72%	40 - 140	5093312	09/25/05 03:42
Surrogate: 2-Fluorobiphenyl	40.0	30.7			77%	40 - 140	5093312	09/25/05 03:42
Surrogate: 2-Bromonaphthalene	40.0	28.9			72%	40 - 140	5093312	09/25/05 03:42
Purgeable Petroleum Hydrocarbons								
5093421-BS1								
C5 - C8 Aliphatic Hydrocarbons, Unadju:	300	279		ug/L	93%	70 - 130	5093421	09/22/05 06:16
C9 - C10 Aromatic Hydrocarbons	100	106		ug/L	106%	70 - 130	5093421	09/22/05 06:16
C9 - C12 Aliphatic Hydrocarbons, Unadj	200	210		ug/L	105%	70 - 130	5093421	09/22/05 06:16
ogate: 2,5-Dibromotoluene (FID)	140	154			110%	70 - 130	5093421	09/22/05 06:16
Surrogate: 2,5-Dibromotoluene (PID)	140	157			112%	70 - 130	5093421	09/22/05 06:16

TestAmerica
ANALYTICAL TESTING CORPORATION
2960 Foster Creighton Road Nashville, TN 37204 * 800-765-0980 * Fax 615-726-3404

Client	Shealy Environmental Services (8677)	Work Order:	NOI1821
	106 Vantage Point Drive	Project Name:	Shealy Environmental Services- NC
	Cayce, SC 29033	Project Number:	Vickers Realty
Attn	Alison Edwards	Received:	09/17/05 08:00

PROJECT QUALITY CONTROL DATA
LCS Dup

Analyte	Orig. Val.	Duplicate	Q	Units	Spike Conc	% Rec.	Target Range	RPD	Limit*	Batch	Sample Duplicated	Analyzed Date/Time
Extractable Petroleum Hydrocarbons												
5093312-BSD1												
C9 - C18 Aliphatic Hydrocarbons		99.6	J	ug/L	150	66%	40 - 140	11	50	5093312		09/25/05 04:09
C19 - C36 Aliphatic Hydrocarbons		129		ug/L	200	64%	40 - 140	12	50	5093312		09/25/05 04:09
C11 - C22 Aromatic Hydrocarbons, Una		301		ug/L	425	71%	40 - 140	5	50	5093312		09/25/05 04:36
Surrogate: 1-Chlorooctadecane		12.1		ug/L	20.0	60%	40 - 140			5093312		09/25/05 04:09
Surrogate: o-Terphenyl		13.9		ug/L	20.0	70%	40 - 140			5093312		09/25/05 04:36
Surrogate: 2-Fluorobiphenyl		28.3		ug/L	40.0	71%	40 - 140			5093312		09/25/05 04:36
Surrogate: 2-Bromonaphthalene		26.7		ug/L	40.0	67%	40 - 140			5093312		09/25/05 04:36
Purgeable Petroleum Hydrocarbons												
5093421-BSD1												
C5 - C8 Aliphatic Hydrocarbons, Unadju		339		ug/L	300	113%	70 - 130	19	25	5093421		09/23/05 10:23
C9 - C10 Aromatic Hydrocarbons		108		ug/L	100	108%	70 - 130	2	25	5093421		09/23/05 10:23
C9 - C12 Aliphatic Hydrocarbons, Unadj		225		ug/L	200	112%	70 - 130	7	25	5093421		09/23/05 10:23
ogate: 2,5-Dibromotoluene (FID)		159		ug/L	140	114%	70 - 130			5093421		09/23/05 10:23
Surrogate: 2,5-Dibromotoluene (PID)		163		ug/L	140	116%	70 - 130			5093421		09/23/05 10:23

TestAmerica
ANALYTICAL TESTING CORPORATION
2960 Foster Creighton Road Nashville, TN 37204 * 800-765-0980 * Fax 615-726-3404

Client	Shealy Environmental Services (8677)	Work Order:	NOI1821
	106 Vantage Point Drive	Project Name:	Shealy Environmental Services- NC
	Cayce, SC 29033	Project Number:	Vickers Realty
Attn	Alison Edwards	Received:	09/17/05 08:00

CERTIFICATION SUMMARY

TestAmerica Analytical - Nashville

Method	Matrix	AIHA	Nelac	North Carolina
MADEP EPH	Water		X	X
MADEP VPH	Water		X	X

TestAmerica
ANALYTICAL TESTING CORPORATION
2960 Foster Creighton Road Nashville, TN 37204 * 800-765-0980 * Fax 615-726-3404

Client	Shealy Environmental Services (8677)	Work Order:	NOI1821
	106 Vantage Point Drive	Project Name:	Shealy Environmental Services- NC
	Cayce, SC 29033	Project Number:	Vickers Realty
Attn	Alison Edwards	Received:	09/17/05 08:00

NELAC CERTIFICATION SUMMARY

TestAmerica Analytical - Nashville does not hold NELAC certifications for the following analytes included in this report

Method	Matrix	Analyte

Client	Shealy Environmental Services (8677)	Work Order:	NOI1821
	106 Vantage Point Drive	Project Name:	Shealy Environmental Services- NC
	Cayce, SC 29033	Project Number:	Vickers Realty
Attn	Alison Edwards	Received:	09/17/05 08:00

DATA QUALIFIERS AND DEFINITIONS

J	Estimated value. Analyte detected at a level less than the Reporting Limit (RL) and greater than or equal to the Method Detection Limit (MDL). The user of this data should be aware that this data is of limited reliability.
U	Analyte included in the analysis, but not detected
ZX	Due to sample matrix effects, the surrogate recovery was outside the acceptance limits.

TestAmerica
ANALYTICAL TESTING CORPORATION
Nashville Division

NOI1821

COOLER RECEIPT FORM BC#

Client Name : Shealy

Cooler Received/Opened On: 9/17/05 Accessioned By: Shane Gambill

Log-in Personnel Signature

1. Temperature of Cooler when triaged: 3.2 Degrees Celsius
2. Were custody seals on outside of cooler?..... YES...NO...NA
   a. If yes, how many and where: _____
3. Were custody seals on containers?..... NO...YES...NA
4. Were the seals intact, signed, and dated correctly?..... YES...NO...NA
5. Were custody papers inside cooler?..... YES...NO...NA
6. Were custody papers properly filled out (ink, signed, etc)?..... YES...NO...NA
7. Did you sign the custody papers in the appropriate place?..... YES...NO...NA
8. What kind of packing material used? Bubblewrap Peanuts Vermiculite Foam Insert Ziplock baggies Paper Other None
9. Cooling process: Ice Ice-pack Ice (direct contact) Dry ice Other None
10. Did all containers arrive in good condition (unbroken)?..... YES...NO...NA
11. Were all container labels complete (#, date, signed, pres., etc)?..... YES...NO...NA
12. Did all container labels and tags agree with custody papers?..... YES...NO...NA
13. Were correct containers used for the analysis requested?..... YES...NO...NA
14. a. Were VOA vials received?..... YES...NO...NA
    b. Was there any observable head space present in any VOA vial?..... NO...YES...NA
15. Was sufficient amount of sample sent in each container?..... YES...NO...NA
16. Were correct preservatives used?..... YES...NO...NA
    If not, record standard ID of preservative used here_____
17. Was residual chlorine present?..... NO...YES...NA
18. Indicate the Airbill Tracking Number (last 4 digits for Fedex only) and Name of Courier below:

Fed-Ex UPS Velocity DHL Route Off-street Misc.

19. If a Non-Conformance exists, see attached or comments below:

0132

BIS = Broken in shipment

SHEALY *Chain of Custody Record*

SHEALY ENVIRONMENTAL SERVICES, INC.
106 Vantage Point Drive
Cayce, South Carolina 29033
Telephone No. (803) 791-9700 Fax No. (803) 791-9111

Number 47658

Client: ARM Environmental	Report to Contact: Tim McCarthy	Telephone No. / Fax No. / E-mail: 704-369-0621 / 704-369-0623	Quote No.
Address: 11164 Downs Road	Sampler's Signature: X Tim McCarthy	Waybill No.	Page 1 of 1
City: Pineville; State: NC; Zip Code: 28134	Printed Name: Tim McCarthy	Analysis (Attach list if more space is needed.)	
Project Name: Vickers Kelly			
Project No.	P.O. No.		Lot No. GI17012

Sample ID / Description (Containers for each sample may be combined on one line.)	Date	Time	G=Grab C=Composite	Matrix: Aqueous	Solid	Non-Aqueous	No. of Containers by Preservative Type: Unpres.	H2SO4	HNO3	HCl	NaOH	5035 Kit	VOC 8260 X	Xylenes X	PAHs plus lead X	MADEP VPH	MADEP EPH	Remarks / Cooler I.D.
MW-3	9-16-05	10:45	G	X			2		7				X	X	X	X		

Possible Hazard Identification: ☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison ☐ Unknown

Sample Disposal: ☐ Return to Client ☒ Disposal by Lab

Note: All samples are retained for six weeks from receipt unless other arrangements are made.

Turn Around Time Required (Prior lab approval required for expedited TAT.): ☒ Standard ☐ Rush (Specify) 7-DAY TAT

QC Requirements (Specify)

	Date	Time		Date	Time
1. Relinquished by: Tim McCarthy	9/16	1235	1. Received by: [illegible]	9/16	1235
2. Relinquished by:			2. Received by:		
3. Relinquished by: [illegible]	9/16	1800	3. Laboratory received by: [illegible]	9/16/05	1800

Comments

LAB USE ONLY
Received on ice (Circle) Yes No Ice Pack
Receipt Temp. 4.0 °C

DISTRIBUTION: WHITE & YELLOW-Return to laboratory with Sample(s); PINK-Field/Client Copy

Sample Receipt Checklist

Client: ARM-Pineville Cooler Inspected by/date: BHC 19/17/05 Lot #: GI17012

Means of receipt: ☑ SESI ☐ Client ☐ UPS ☐ FedEx ☐ Airborne Exp ☐ Other

Yes ☐	No ☑	NA ☐	1. Were custody seals present on the cooler?
Yes ☐	No ☐	NA ☑	2. If custody seals were present, were they intact and unbroken?

Cooler temperature upon receipt 4.0 °C _____ °C _____ °C _____ °C _____ °C

Method: ☐ Temperature Blank ☑ Against Bottles

Method of coolant: ☑ Wet Ice ☐ Blue Ice ☐ Dry Ice ☐ None

If response is No (or Yes for 13,14,15), an explanation/resolution must be provided.

Yes ☐	No ☐	NA ☑	3. Is the commercial courier's packing slip attached to this form?
Yes ☑	No ☐	NA ☐	4. Were proper custody procedures (relinquished/received) followed?
Yes ☑	No ☐	NA ☐	5. Were sample IDs listed?
Yes ☑	No ☐	NA ☐	6. Was collection date & time listed?
Yes ☑	No ☐	NA ☐	7. Were tests to be performed listed on the COC or was quote # provided?
Yes ☑	No ☐	NA ☐	8. Did all samples arrive in the proper containers for each test?
Yes ☑	No ☐	NA ☐	9. Did all container label information (ID, date, time) agree with COC?
Yes ☑	No ☐	NA ☐	10. Did all containers arrive in good condition (unbroken, lids on, etc.)?
Yes ☑	No ☐	NA ☐	11. Was adequate sample volume available?
Yes ☑	No ☐	NA ☐	12. Were all samples received within ½ the holding time or 48 hours, whichever comes first?
Yes ☐	No ☑	NA ☐	13. Were any samples containers missing?
Yes ☐	No ☑	NA ☐	14. Were there any excess samples not listed on COC?
Yes ☐	No ☑	NA ☐	15. Were bubbles present >"pea-size" (¼"or 6mm in diameter) in any VOA vials?
Yes ☐	No ☐	NA ☑	16. Were all metals/O&G/HEM/nutrient samples received at a pH of <2?
Yes ☐	No ☐	NA ☑	17. Were all cyanide and/or sulfide samples received at a pH >12?
Yes ☐	No ☐	NA ☑	18. Were all applicable NH3/TKN/cyanide/BNA/pest/PCB/herb (<0.2 mg/L) and toxicity (<0.1 mg/L) samples free of residual chlorine?
Yes ☐	No ☑	NA ☐	19. Were collection temperatures documented on the COC for NC samples?

Sample Preservation (Must be completed for any sample(s) incorrectly preserved or with headspace.)

Sample(s)_____ were received incorrectly preserved and were adjusted accordingly in sample receiving.

Sample(s)_____ were received with bubbles >6 mm in diameter.

Sample(s)_____ were received with TRC >0.2 mg/L for NH3/ TKN/cyanide/BNA/pest/PCB/herb.

Toxicity sample(s)_____ were received with TRC >0.1 mg/L and were analyzed by method 330.5.

Corrective Action taken, if necessary:

Was client notified: Yes ☐ No ☐ Did client respond: Yes ☐ No ☐

SESI employee:_____ Date of response: _____

Comments: _____

SHEALY ENVIRONMENTAL SERVICES, INC.

Report of Analysis

ARM Environmental Services, Inc.
11164 Downs Road
Pineville, NC 28134
Attention: Dave Hunter

Project Name: **Vickers Realty- Phll LSA**

Project Number: **N20-952-05**

Lot Number: **GK18011**

Date Completed: **12/01/2005**

Alison Bragan Edwards
Project Manager

This report shall not be reproduced, except in its entirety, without the written approval of Shealy Environmental Services, Inc.

The following non-paginated documents are considered part of this report: Chain of Custody Record and Sample Receipt Checklist.

Case Narrative
ARM Environmental Services, Inc.
Lot Number: GK18011

This Report of Analysis contains the analytical result(s) for the sample(s) listed on the Sample Summary following this Case Narrative. The sample receiving date is documented in the header information associated with each sample.

Sample receipt, sample analysis, and data review have been performed in accordance with the most current approved NELAC standards, the Shealy Environmental Services, Inc. ("Shealy") Quality Assurance Management Plan (QAMP), standard operating procedures (SOPs), and Shealy policies. Any exceptions to the NELAC standards, the QAMP, SOPs or policies are qualified on the results page or discussed below.

If you have any questions regarding this report please contact the Shealy Project Manager listed on the cover page.

SVOC
The blank associated with analytical batch 33582 had a detection for diethyphthlate that was above the MDL, but below the PQL. All samples associated with this batch, that had detections for diethyphthlate, have been flagged with a "B".

SHEALY ENVIRONMENTAL SERVICES, INC.

Sample Summary
ARM Environmental Services, Inc.
Lot Number: GK18011

Sample Number	Sample ID	Matrix	Date Sampled
001	MW-4	Aqueous	11/16/2005 1330
002	MW-5	Aqueous	11/16/2005 1400
003	MW-6	Aqueous	11/16/2005 1430
004	MW-7d	Aqueous	11/16/2005 1530

(4 samples)

Executive Summary
ARM Environmental Services, Inc.
Lot Number: GK18011

Sample	Sample ID	Matrix	Parameter	Method	Result	Q	Units	Page
001	MW-4	Aqueous	Benzene	8260B	11		ug/L	5
001	MW-4	Aqueous	Diisopropyl ether (IPE)	8260B	84		ug/L	5
001	MW-4	Aqueous	Ethylbenzene	8260B	60		ug/L	5
001	MW-4	Aqueous	Toluene	8260B	0.62	J	ug/L	5
001	MW-4	Aqueous	Xylenes (total)	8260B	11		ug/L	5
001	MW-4	Aqueous	Acenaphthene	8270C	3.9	J	ug/L	6
001	MW-4	Aqueous	Diethylphthalate	8270C	1.2	BJ	ug/L	6
001	MW-4	Aqueous	Fluorene	8270C	3.5	J	ug/L	6
001	MW-4	Aqueous	Naphthalene	8270C	8.1		ug/L	7
001	MW-4	Aqueous	Phenol	8270C	42		ug/L	7
001	MW-4	Aqueous	Cyclopentanol, 1-methyl-	8270C	28		ug/L	8
001	MW-4	Aqueous	Indane	8270C	45		ug/L	8
001	MW-4	Aqueous	Benzene, 2-ethenyl-1,4-dimethyl-	8270C	39		ug/L	8
001	MW-4	Aqueous	Benzene, 1-methyl-2-(1-methyl-2-	8270C	30		ug/L	8
001	MW-4	Aqueous	Naphthalene, 2,3-dimethyl-	8270C	23		ug/L	8
001	MW-4	Aqueous	C11 - C22 Aromatics	MADEP-EPH-	290		ug/L	9
001	MW-4	Aqueous	C9 - C10 Aromatics	MADEP-VPH-	390		ug/L	10
001	MW-4	Aqueous	C5 - C8 Aliphatics	MADEP-VPH-	580		ug/L	10
001	MW-4	Aqueous	C9 - C12 Aliphatics	MADEP-VPH-	160		ug/L	10
002	MW-5	Aqueous	Diethylphthalate	8270C	1.0	BJ	ug/L	12
002	MW-5	Aqueous	C11 - C22 Aromatics	MADEP-EPH-	54	J	ug/L	15
002	MW-5	Aqueous	C9 - C12 Aliphatics	MADEP-VPH-	77	J	ug/L	16
003	MW-6	Aqueous	C11 - C22 Aromatics	MADEP-EPH-	58	J	ug/L	21
003	MW-6	Aqueous	C9 - C12 Aliphatics	MADEP-VPH-	63	J	ug/L	22
004	MW-7d	Aqueous	Diisopropyl ether (IPE)	8260B	0.56	J	ug/L	23
004	MW-7d	Aqueous	Di-n-butyl phthalate	8270C	2.2	J	ug/L	24
004	MW-7d	Aqueous	Diethylphthalate	8270C	1.3	BJ	ug/L	24
004	MW-7d	Aqueous	Ethyl Acetate	8270C	32		ug/L	26
004	MW-7d	Aqueous	2(3H)-Furanone, 5-heptyldihydro-	8270C	31		ug/L	26
004	MW-7d	Aqueous	C11 - C22 Aromatics	MADEP-EPH-	74	J	ug/L	27
004	MW-7d	Aqueous	C19 - C36 Aliphatics	MADEP-EPH-	82	J	ug/L	27
004	MW-7d	Aqueous	C9 - C12 Aliphatics	MADEP-VPH-	59	J	ug/L	28

(32 detections)

Volatile Organic Compounds by GC/MS

Client: **ARM Environmental Services, Inc.**
Laboratory ID: **GK18011-001**
Description: **MW-4**
Matrix: **Aqueous**
Date Sampled: **11/16/2005 1330**
Date Received: **11/17/2005**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	11/22/2005 1443	CMS		33528

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Benzene	**71-43-2**	**8260B**	**11**		**1.0**	**0.13**	**ug/L**	**1**
Chlorobenzene	108-90-7	8260B	ND		1.0	0.14	ug/L	1
1,2-Dibromoethane (EDB)	106-93-4	8260B	ND		1.0	0.30	ug/L	1
1,2-Dichlorobenzene	95-50-1	8260B	ND		1.0	0.30	ug/L	1
1,3-Dichlorobenzene	541-73-1	8260B	ND		1.0	0.30	ug/L	1
1,4-Dichlorobenzene	106-46-7	8260B	ND		1.0	0.20	ug/L	1
Diisopropyl ether (IPE)	**108-20-3**	**8260B**	**84**		**1.0**	**0.40**	**ug/L**	**1**
Ethylbenzene	**100-41-4**	**8260B**	**60**		**1.0**	**0.17**	**ug/L**	**1**
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		1.0	0.40	ug/L	1
Toluene	**108-88-3**	**8260B**	**0.62**	**J**	**1.0**	**0.17**	**ug/L**	**1**
Xylenes (total)	**1330-20-7**	**8260B**	**11**		**1.0**	**0.22**	**ug/L**	**1**

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		112	52-138
Bromofluorobenzene		116	70-147
Toluene-d8		119	76-125

PQL = Practical quantitation limit
ND = Not detected at or above the MDL
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

B = Detected in the method blank
J = Estimated result < PQL and ≥ MDL

E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria

Semivolatile Organic Compounds by GC/MS

Client: **ARM Environmental Services, Inc.** Laboratory ID: **GK18011-001**

Description: **MW-4** Matrix: **Aqueous**

Date Sampled: **11/16/2005 1330**

Date Received: **11/17/2005**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3520C	8270C	1	11/23/2005 1857	DC	11/21/2005 1710	33438

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Acenaphthene	**83-32-9**	**8270C**	**3.9**	**J**	**5.0**	**0.50**	**ug/L**	**1**
Acenaphthylene	208-96-8	8270C	ND		5.0	0.50	ug/L	1
Anthracene	120-12-7	8270C	ND		5.0	0.40	ug/L	1
Benzidine	92-87-5	8270C	ND		25	9.4	ug/L	1
Benzo(a)anthracene	56-55-3	8270C	ND		5.0	0.80	ug/L	1
Benzo(a)pyrene	50-32-8	8270C	ND		5.0	1.4	ug/L	1
Benzo(b)fluoranthene	205-99-2	8270C	ND		5.0	0.90	ug/L	1
Benzo(g,h,i)perylene	191-24-2	8270C	ND		5.0	0.40	ug/L	1
Benzo(k)fluoranthene	207-08-9	8270C	ND		5.0	1.0	ug/L	1
4-Bromophenyl phenyl ether	101-55-3	8270C	ND		5.0	0.60	ug/L	1
Butyl benzyl phthalate	85-68-7	8270C	ND		10	0.60	ug/L	1
4-Chloro-3-methyl phenol	59-50-7	8270C	ND		5.0	0.40	ug/L	1
bis(2-Chloroethoxy)methane	111-91-1	8270C	ND		5.0	0.70	ug/L	1
bis(2-Chloroethyl)ether	111-44-4	8270C	ND		5.0	0.60	ug/L	1
bis(2-Chloroisopropyl)ether	108-60-1	8270C	ND		5.0	0.50	ug/L	1
2-Chloronaphthalene	91-58-7	8270C	ND		5.0	0.50	ug/L	1
2-Chlorophenol	95-57-8	8270C	ND		5.0	0.50	ug/L	1
4-Chlorophenyl phenyl ether	7005-72-3	8270C	ND		5.0	0.50	ug/L	1
Chrysene	218-01-9	8270C	ND		5.0	0.90	ug/L	1
Di-n-butyl phthalate	84-74-2	8270C	ND		5.0	1.4	ug/L	1
Di-n-octylphthalate	117-84-0	8270C	ND		5.0	0.90	ug/L	1
Dibenzo(a,h)anthracene	53-70-3	8270C	ND		5.0	0.60	ug/L	1
1,2-Dichlorobenzene	95-50-1	8270C	ND		5.0	0.50	ug/L	1
1,3-Dichlorobenzene	541-73-1	8270C	ND		5.0	0.50	ug/L	1
1,4-Dichlorobenzene	106-46-7	8270C	ND		5.0	0.60	ug/L	1
3,3'-Dichlorobenzidine	91-94-1	8270C	ND		25	5.9	ug/L	1
2,4-Dichlorophenol	120-83-2	8270C	ND		5.0	0.40	ug/L	1
Diethylphthalate	**84-66-2**	**8270C**	**1.2**	**BJ**	**5.0**	**0.50**	**ug/L**	**1**
Dimethyl phthalate	131-11-3	8270C	ND		5.0	0.50	ug/L	1
2,4-Dimethylphenol	105-67-9	8270C	ND		5.0	0.80	ug/L	1
4,6-Dinitro-2-methylphenol	534-52-1	8270C	ND		25	1.5	ug/L	1
2,4-Dinitrophenol	51-28-5	8270C	ND		25	1.1	ug/L	1
2,4-Dinitrotoluene	121-14-2	8270C	ND		10	1.0	ug/L	1
2,6-Dinitrotoluene	606-20-2	8270C	ND		10	1.1	ug/L	1
1,2-Diphenylhydrazine(as azobenzene)	103-33-3	8270C	ND		5.0	0.70	ug/L	1
bis(2-Ethylhexyl)phthalate	117-81-7	8270C	ND		5.0	3.8	ug/L	1
Fluoranthene	206-44-0	8270C	ND		5.0	0.60	ug/L	1
Fluorene	**86-73-7**	**8270C**	**3.5**	**J**	**5.0**	**0.50**	**ug/L**	**1**
Hexachlorobenzene	118-74-1	8270C	ND		5.0	0.50	ug/L	1
Hexachlorobutadiene	87-68-3	8270C	ND		5.0	0.50	ug/L	1
Hexachlorocyclopentadiene	77-47-4	8270C	ND		25	2.1	ug/L	1
Hexachloroethane	67-72-1	8270C	ND		5.0	0.50	ug/L	1
Indeno(1,2,3-c,d)pyrene	193-39-5	8270C	ND		5.0	0.40	ug/L	1
Isophorone	78-59-1	8270C	ND		5.0	0.50	ug/L	1
N-Nitrosodi-n-propylamine	621-64-7	8270C	ND		5.0	0.40	ug/L	1
N-Nitrosodimethylamine	62-75-9	8270C	ND		5.0	0.70	ug/L	1

PQL = Practical quantitation limit
ND = Not detected at or above the MDL
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

B = Detected in the method blank
J = Estimated result < PQL and ≥ MDL

E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria

Semivolatile Organic Compounds by GC/MS

Client: **ARM Environmental Services, Inc.**
Laboratory ID: **GK18011-001**
Description: **MW-4**
Matrix: **Aqueous**
Date Sampled: **11/16/2005 1330**
Date Received: **11/17/2005**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3520C	8270C	1	11/23/2005 1857	DC	11/21/2005 1710	33438

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
N-Nitrosodiphenylamine/Diphenylamine	86-30-6	8270C	ND		5.0	2.1	ug/L	1
Naphthalene	**91-20-3**	**8270C**	**8.1**		**5.0**	**0.60**	**ug/L**	**1**
Nitrobenzene	98-95-3	8270C	ND		5.0	0.50	ug/L	1
2-Nitrophenol	88-75-5	8270C	ND		10	1.2	ug/L	1
4-Nitrophenol	100-02-7	8270C	ND		25	2.5	ug/L	1
Pentachlorophenol	87-86-5	8270C	ND		25	2.9	ug/L	1
Phenanthrene	85-01-8	8270C	ND		5.0	0.50	ug/L	1
Phenol	**108-95-2**	**8270C**	**42**		**5.0**	**0.50**	**ug/L**	**1**
Pyrene	129-00-0	8270C	ND		5.0	0.60	ug/L	1
1,2,4-Trichlorobenzene	120-82-1	8270C	ND		5.0	0.50	ug/L	1
2,4,6-Trichlorophenol	88-06-2	8270C	ND		5.0	0.40	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
2,4,6-Tribromophenol		72	41-144
2-Fluorobiphenyl		64	37-129
2-Fluorophenol		64	24-127
Nitrobenzene-d5		72	38-127
Phenol-d5		68	28-128
Terphenyl-d14		38	10-148

PQL = Practical quantitation limit
ND = Not detected at or above the MDL
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"
B = Detected in the method blank
J = Estimated result < PQL and ≥ MDL
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria

Library Search

Client: **ARM Environmental Services, Inc.**
Laboratory ID: **GK18011-001**
Description: **MW-4**
Matrix: **Aqueous**
Date Sampled: **11/16/2005 1330**
Date Received: **11/17/2005**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3520C	8270C	1	11/23/2005 1857	DC		33583

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Cyclopentanol, 1-methyl-		8270C	28				ug/L	1
Indane		8270C	45				ug/L	1
Benzene, 2-ethenyl-1,4-dimethyl-		8270C	39				ug/L	1
Benzene, 1-methyl-2-(1-methyl-2-propenyl		8270C	30				ug/L	1
Naphthalene, 2,3-dimethyl-		8270C	23				ug/L	1

PQL = Practical quantitation limit
ND = Not detected at or above the MDL
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"
B = Detected in the method blank
J = Estimated result < PQL and ≥ MDL
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria

MADEP EPH

Client: **ARM Environmental Services, Inc.**
Laboratory ID: **GK18011-001**
Description: **MW-4**
Matrix: **Aqueous**
Date Sampled: **11/16/2005 1330**
Date Received: **11/17/2005**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1		MADEP-EPH-04-1	1	11/21/2005 2121			

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
C11 - C22 Aromatics		**MADEP-EPH-04-1**	**290**		**200**	**62**	**ug/L**	**1**
C19 - C36 Aliphatics		MADEP-EPH-04-1	ND		200	62	ug/L	1
C9 - C18 Aliphatics		MADEP-EPH-04-1	ND		200	62	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
2-Bromonaphthalene		99	40-140
2-Fluorobiphenyl		98	40-140
C - 35		58	40-140
o - Terphenyl		81	40-140

PQL = Practical quantitation limit
ND = Not detected at or above the MDL
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

B = Detected in the method blank
J = Estimated result < PQL and > MDL

E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria

MADEP VPH

Client: **ARM Environmental Services, Inc.**
Laboratory ID: **GK18011-001**
Description: **MW-4**
Matrix: **Aqueous**
Date Sampled: **11/16/2005 1330**
Date Received: **11/17/2005**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1		MADEP-VPH-04-1.1	1	11/23/2005 0015			

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
C9 - C10 Aromatics		**MADEP-VPH-04-1.1**	**390**		**100**	**3.4**	**ug/L**	**1**
C5 - C8 Aliphatics		**MADEP-VPH-04-1.1**	**580**		**100**	**18**	**ug/L**	**1**
C9 - C12 Aliphatics		**MADEP-VPH-04-1.1**	**160**		**100**	**16**	**ug/L**	**1**

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
2,5-Dibromotoluene (FID)	N	151	70-130
2,5-Dibromotoluene (PID)		74	70-130

PQL = Practical quantitation limit
ND = Not detected at or above the MDL
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

B = Detected in the method blank
J = Estimated result < PQL and ≥ MDL

E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria

Volatile Organic Compounds by GC/MS

Client: **ARM Environmental Services, Inc.**
Laboratory ID: **GK18011-002**
Description: **MW-5**
Matrix: **Aqueous**
Date Sampled: **11/16/2005 1400**
Date Received: **11/17/2005**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	11/22/2005 1504	CMS		33528

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Benzene	71-43-2	8260B	ND		1.0	0.13	ug/L	1
Chlorobenzene	108-90-7	8260B	ND		1.0	0.14	ug/L	1
1,2-Dibromoethane (EDB)	106-93-4	8260B	ND		1.0	0.30	ug/L	1
1,2-Dichlorobenzene	95-50-1	8260B	ND		1.0	0.30	ug/L	1
1,3-Dichlorobenzene	541-73-1	8260B	ND		1.0	0.30	ug/L	1
1,4-Dichlorobenzene	106-46-7	8260B	ND		1.0	0.20	ug/L	1
Diisopropyl ether (IPE)	108-20-3	8260B	ND		1.0	0.40	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		1.0	0.17	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		1.0	0.40	ug/L	1
Toluene	108-88-3	8260B	ND		1.0	0.17	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		1.0	0.22	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		117	52-138
Bromofluorobenzene		115	70-147
Toluene-d8		118	76-125

PQL = Practical quantitation limit
ND = Not detected at or above the MDL
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

B = Detected in the method blank
J = Estimated result < PQL and ≥ MDL

E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria

Semivolatile Organic Compounds by GC/MS

Client: **ARM Environmental Services, Inc.** Laboratory ID: **GK18011-002**
Description: **MW-5** Matrix: **Aqueous**
Date Sampled: **11/16/2005 1400**
Date Received: **11/17/2005**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3520C	8270C	1	11/23/2005 1922	DC	11/21/2005 1710	33438

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Acenaphthene	83-32-9	8270C	ND		5.0	0.50	ug/L	1
Acenaphthylene	208-96-8	8270C	ND		5.0	0.50	ug/L	1
Anthracene	120-12-7	8270C	ND		5.0	0.40	ug/L	1
Benzidine	92-87-5	8270C	ND		25	9.4	ug/L	1
Benzo(a)anthracene	56-55-3	8270C	ND		5.0	0.80	ug/L	1
Benzo(a)pyrene	50-32-8	8270C	ND		5.0	1.4	ug/L	1
Benzo(b)fluoranthene	205-99-2	8270C	ND		5.0	0.90	ug/L	1
Benzo(g,h,i)perylene	191-24-2	8270C	ND		5.0	0.40	ug/L	1
Benzo(k)fluoranthene	207-08-9	8270C	ND		5.0	1.0	ug/L	1
4-Bromophenyl phenyl ether	101-55-3	8270C	ND		5.0	0.60	ug/L	1
Butyl benzyl phthalate	85-68-7	8270C	ND		10	0.60	ug/L	1
4-Chloro-3-methyl phenol	59-50-7	8270C	ND		5.0	0.40	ug/L	1
bis(2-Chloroethoxy)methane	111-91-1	8270C	ND		5.0	0.70	ug/L	1
bis(2-Chloroethyl)ether	111-44-4	8270C	ND		5.0	0.60	ug/L	1
bis(2-Chloroisopropyl)ether	108-60-1	8270C	ND		5.0	0.50	ug/L	1
2-Chloronaphthalene	91-58-7	8270C	ND		5.0	0.50	ug/L	1
2-Chlorophenol	95-57-8	8270C	ND		5.0	0.50	ug/L	1
4-Chlorophenyl phenyl ether	7005-72-3	8270C	ND		5.0	0.50	ug/L	1
Chrysene	218-01-9	8270C	ND		5.0	0.90	ug/L	1
Di-n-butyl phthalate	84-74-2	8270C	ND		5.0	1.4	ug/L	1
Di-n-octylphthalate	117-84-0	8270C	ND		5.0	0.90	ug/L	1
Dibenzo(a,h)anthracene	53-70-3	8270C	ND		5.0	0.60	ug/L	1
1,2-Dichlorobenzene	95-50-1	8270C	ND		5.0	0.50	ug/L	1
1,3-Dichlorobenzene	541-73-1	8270C	ND		5.0	0.50	ug/L	1
1,4-Dichlorobenzene	106-46-7	8270C	ND		5.0	0.60	ug/L	1
3,3'-Dichlorobenzidine	91-94-1	8270C	ND		25	5.9	ug/L	1
2,4-Dichlorophenol	120-83-2	8270C	ND		5.0	0.40	ug/L	1
Diethylphthalate	**84-66-2**	**8270C**	**1.0**	**BJ**	**5.0**	**0.50**	**ug/L**	**1**
Dimethyl phthalate	131-11-3	8270C	ND		5.0	0.50	ug/L	1
2,4-Dimethylphenol	105-67-9	8270C	ND		5.0	0.80	ug/L	1
4,6-Dinitro-2-methylphenol	534-52-1	8270C	ND		25	1.5	ug/L	1
2,4-Dinitrophenol	51-28-5	8270C	ND		25	1.1	ug/L	1
2,4-Dinitrotoluene	121-14-2	8270C	ND		10	1.0	ug/L	1
2,6-Dinitrotoluene	606-20-2	8270C	ND		10	1.1	ug/L	1
1,2-Diphenylhydrazine(as azobenzene)	103-33-3	8270C	ND		5.0	0.70	ug/L	1
bis(2-Ethylhexyl)phthalate	117-81-7	8270C	ND		5.0	3.8	ug/L	1
Fluoranthene	206-44-0	8270C	ND		5.0	0.60	ug/L	1
Fluorene	86-73-7	8270C	ND		5.0	0.50	ug/L	1
Hexachlorobenzene	118-74-1	8270C	ND		5.0	0.50	ug/L	1
Hexachlorobutadiene	87-68-3	8270C	ND		5.0	0.50	ug/L	1
Hexachlorocyclopentadiene	77-47-4	8270C	ND		25	2.1	ug/L	1
Hexachloroethane	67-72-1	8270C	ND		5.0	0.50	ug/L	1
Indeno(1,2,3-c,d)pyrene	193-39-5	8270C	ND		5.0	0.40	ug/L	1
Isophorone	78-59-1	8270C	ND		5.0	0.50	ug/L	1
N-Nitrosodi-n-propylamine	621-64-7	8270C	ND		5.0	0.40	ug/L	1
N-Nitrosodimethylamine	62-75-9	8270C	ND		5.0	0.70	ug/L	1

PQL = Practical quantitation limit
ND = Not detected at or above the MDL
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"
B = Detected in the method blank
J = Estimated result < PQL and ≥ MDL
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria

Semivolatile Organic Compounds by GC/MS

Client: **ARM Environmental Services, Inc.**
Laboratory ID: **GK18011-002**
Description: **MW-5**
Matrix: **Aqueous**
Date Sampled: **11/16/2005 1400**
Date Received: **11/17/2005**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3520C	8270C	1	11/23/2005 1922	DC	11/21/2005 1710	33438

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
N-Nitrosodiphenylamine/Diphenylamine	86-30-6	8270C	ND		5.0	2.1	ug/L	1
Naphthalene	91-20-3	8270C	ND		5.0	0.60	ug/L	1
Nitrobenzene	98-95-3	8270C	ND		5.0	0.50	ug/L	1
2-Nitrophenol	88-75-5	8270C	ND		10	1.2	ug/L	1
4-Nitrophenol	100-02-7	8270C	ND		25	2.5	ug/L	1
Pentachlorophenol	87-86-5	8270C	ND		25	2.9	ug/L	1
Phenanthrene	85-01-8	8270C	ND		5.0	0.50	ug/L	1
Phenol	108-95-2	8270C	ND		5.0	0.50	ug/L	1
Pyrene	129-00-0	8270C	ND		5.0	0.60	ug/L	1
1,2,4-Trichlorobenzene	120-82-1	8270C	ND		5.0	0.50	ug/L	1
2,4,6-Trichlorophenol	88-06-2	8270C	ND		5.0	0.40	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
2,4,6-Tribromophenol		64	41-144
2-Fluorobiphenyl		62	37-129
2-Fluorophenol		64	24-127
Nitrobenzene-d5		68	38-127
Phenol-d5		65	28-128
Terphenyl-d14		45	10-148

PQL = Practical quantitation limit
ND = Not detected at or above the MDL
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"
B = Detected in the method blank
J = Estimated result < PQL and ≥ MDL
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria

Library Search

Client: **ARM Environmental Services, Inc.**
Laboratory ID: **GK18011-002**
Description: **MW-5**
Matrix: **Aqueous**
Date Sampled: **11/16/2005 1400**
Date Received: **11/17/2005**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3520C	8270C	1				33583

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
None Detected		**8270C**					**ug/L**	**1**

PQL = Practical quantitation limit
ND = Not detected at or above the MDL
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"
B = Detected in the method blank
J = Estimated result < PQL and ≥ MDL
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria

MADEP EPH

Client: **ARM Environmental Services, Inc.**
Laboratory ID: **GK18011-002**
Description: **MW-5**
Matrix: **Aqueous**
Date Sampled: **11/16/2005 1400**
Date Received: **11/17/2005**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1		MADEP-EPH-04-1	1	11/21/2005 2242			

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
C11 - C22 Aromatics		**MADEP-EPH-04-1**	**54**	**J**	**100**	**31**	**ug/L**	**1**
C19 - C36 Aliphatics		MADEP-EPH-04-1	ND		100	31	ug/L	1
C9 - C18 Aliphatics		MADEP-EPH-04-1	ND		100	31	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
2-Bromonaphthalene		87	40-140
2-Fluorobiphenyl		84	40-140
C - 35		42	40-140
o - Terphenyl		69	40-140

PQL = Practical quantitation limit
ND = Not detected at or above the MDL
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

B = Detected in the method blank
J = Estimated result < PQL and > MDL

E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria

MADEP VPH

Client: **ARM Environmental Services, Inc.**
Laboratory ID: **GK18011-002**
Description: **MW-5**
Matrix: **Aqueous**
Date Sampled: **11/16/2005 1400**
Date Received: **11/17/2005**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1		MADEP-VPH-04-1.1	1	11/23/2005 0052			

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
C9 - C10 Aromatics		MADEP-VPH-04-1.1	ND		100	3.4	ug/L	1
C5 - C8 Aliphatics		MADEP-VPH-04-1.1	ND		100	18	ug/L	1
C9 - C12 Aliphatics		**MADEP-VPH-04-1.1**	**77**	**J**	**100**	**16**	**ug/L**	**1**

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
2,5-Dibromotoluene (FID)		102	70-130
2,5-Dibromotoluene (PID)		78	70-130

PQL = Practical quantitation limit
ND = Not detected at or above the MDL
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

B = Detected in the method blank
J = Estimated result < PQL and > MDL

E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria

Volatile Organic Compounds by GC/MS

Client: **ARM Environmental Services, Inc.**
Laboratory ID: **GK18011-003**
Description: **MW-6**
Matrix: **Aqueous**
Date Sampled: **11/16/2005 1430**
Date Received: **11/17/2005**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	11/22/2005 1526	CMS		33528

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Benzene	71-43-2	8260B	ND		1.0	0.13	ug/L	1
Chlorobenzene	108-90-7	8260B	ND		1.0	0.14	ug/L	1
1,2-Dibromoethane (EDB)	106-93-4	8260B	ND		1.0	0.30	ug/L	1
1,2-Dichlorobenzene	95-50-1	8260B	ND		1.0	0.30	ug/L	1
1,3-Dichlorobenzene	541-73-1	8260B	ND		1.0	0.30	ug/L	1
1,4-Dichlorobenzene	106-46-7	8260B	ND		1.0	0.20	ug/L	1
Diisopropyl ether (IPE)	108-20-3	8260B	ND		1.0	0.40	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		1.0	0.17	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		1.0	0.40	ug/L	1
Toluene	108-88-3	8260B	ND		1.0	0.17	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		1.0	0.22	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		111	52-138
Bromofluorobenzene		108	70-147
Toluene-d8		110	76-125

PQL = Practical quantitation limit
ND = Not detected at or above the MDL
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

B = Detected in the method blank
J = Estimated result < PQL and > MDL

E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria

Semivolatile Organic Compounds by GC/MS

Client: **ARM Environmental Services, Inc.** Laboratory ID: **GK18011-003**

Description: **MW-6** Matrix: **Aqueous**

Date Sampled: **11/16/2005 1430**

Date Received: **11/17/2005**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3520C	8270C	1	11/23/2005 1948	DC	11/21/2005 1710	33438

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Acenaphthene	83-32-9	8270C	ND		5.0	0.50	ug/L	1
Acenaphthylene	208-96-8	8270C	ND		5.0	0.50	ug/L	1
Anthracene	120-12-7	8270C	ND		5.0	0.40	ug/L	1
Benzidine	92-87-5	8270C	ND		25	9.4	ug/L	1
Benzo(a)anthracene	56-55-3	8270C	ND		5.0	0.80	ug/L	1
Benzo(a)pyrene	50-32-8	8270C	ND		5.0	1.4	ug/L	1
Benzo(b)fluoranthene	205-99-2	8270C	ND		5.0	0.90	ug/L	1
Benzo(g,h,i)perylene	191-24-2	8270C	ND		5.0	0.40	ug/L	1
Benzo(k)fluoranthene	207-08-9	8270C	ND		5.0	1.0	ug/L	1
4-Bromophenyl phenyl ether	101-55-3	8270C	ND		5.0	0.60	ug/L	1
Butyl benzyl phthalate	85-68-7	8270C	ND		10	0.60	ug/L	1
4-Chloro-3-methyl phenol	59-50-7	8270C	ND		5.0	0.40	ug/L	1
bis(2-Chloroethoxy)methane	111-91-1	8270C	ND		5.0	0.70	ug/L	1
bis(2-Chloroethyl)ether	111-44-4	8270C	ND		5.0	0.60	ug/L	1
bis(2-Chloroisopropyl)ether	108-60-1	8270C	ND		5.0	0.50	ug/L	1
2-Chloronaphthalene	91-58-7	8270C	ND		5.0	0.50	ug/L	1
2-Chlorophenol	95-57-8	8270C	ND		5.0	0.50	ug/L	1
4-Chlorophenyl phenyl ether	7005-72-3	8270C	ND		5.0	0.50	ug/L	1
Chrysene	218-01-9	8270C	ND		5.0	0.90	ug/L	1
Di-n-butyl phthalate	84-74-2	8270C	ND		5.0	1.4	ug/L	1
Di-n-octylphthalate	117-84-0	8270C	ND		5.0	0.90	ug/L	1
Dibenzo(a,h)anthracene	53-70-3	8270C	ND		5.0	0.60	ug/L	1
1,2-Dichlorobenzene	95-50-1	8270C	ND		5.0	0.50	ug/L	1
1,3-Dichlorobenzene	541-73-1	8270C	ND		5.0	0.50	ug/L	1
1,4-Dichlorobenzene	106-46-7	8270C	ND		5.0	0.60	ug/L	1
3,3'-Dichlorobenzidine	91-94-1	8270C	ND		25	5.9	ug/L	1
2,4-Dichlorophenol	120-83-2	8270C	ND		5.0	0.40	ug/L	1
Diethylphthalate	84-66-2	8270C	ND		5.0	0.50	ug/L	1
Dimethyl phthalate	131-11-3	8270C	ND		5.0	0.50	ug/L	1
2,4-Dimethylphenol	105-67-9	8270C	ND		5.0	0.80	ug/L	1
4,6-Dinitro-2-methylphenol	534-52-1	8270C	ND		25	1.5	ug/L	1
2,4-Dinitrophenol	51-28-5	8270C	ND		25	1.1	ug/L	1
2,4-Dinitrotoluene	121-14-2	8270C	ND		10	1.0	ug/L	1
2,6-Dinitrotoluene	606-20-2	8270C	ND		10	1.1	ug/L	1
1,2-Diphenylhydrazine(as azobenzene)	103-33-3	8270C	ND		5.0	0.70	ug/L	1
bis(2-Ethylhexyl)phthalate	117-81-7	8270C	ND		5.0	3.8	ug/L	1
Fluoranthene	206-44-0	8270C	ND		5.0	0.60	ug/L	1
Fluorene	86-73-7	8270C	ND		5.0	0.50	ug/L	1
Hexachlorobenzene	118-74-1	8270C	ND		5.0	0.50	ug/L	1
Hexachlorobutadiene	87-68-3	8270C	ND		5.0	0.50	ug/L	1
Hexachlorocyclopentadiene	77-47-4	8270C	ND		25	2.1	ug/L	1
Hexachloroethane	67-72-1	8270C	ND		5.0	0.50	ug/L	1
Indeno(1,2,3-c,d)pyrene	193-39-5	8270C	ND		5.0	0.40	ug/L	1
Isophorone	78-59-1	8270C	ND		5.0	0.50	ug/L	1
N-Nitrosodi-n-propylamine	621-64-7	8270C	ND		5.0	0.40	ug/L	1
N-Nitrosodimethylamine	62-75-9	8270C	ND		5.0	0.70	ug/L	1

PQL = Practical quantitation limit
ND = Not detected at or above the MDL
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

B = Detected in the method blank
J = Estimated result < PQL and ≥ MDL

E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria

Semivolatile Organic Compounds by GC/MS

Client: **ARM Environmental Services, Inc.**
Laboratory ID: **GK18011-003**
Description: **MW-6**
Matrix: **Aqueous**
Date Sampled: **11/16/2005 1430**
Date Received: **11/17/2005**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3520C	8270C	1	11/23/2005 1948	DC	11/21/2005 1710	33438

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
N-Nitrosodiphenylamine/Diphenylamine	86-30-6	8270C	ND		5.0	2.1	ug/L	1
Naphthalene	91-20-3	8270C	ND		5.0	0.60	ug/L	1
Nitrobenzene	98-95-3	8270C	ND		5.0	0.50	ug/L	1
2-Nitrophenol	88-75-5	8270C	ND		10	1.2	ug/L	1
4-Nitrophenol	100-02-7	8270C	ND		25	2.5	ug/L	1
Pentachlorophenol	87-86-5	8270C	ND		25	2.9	ug/L	1
Phenanthrene	85-01-8	8270C	ND		5.0	0.50	ug/L	1
Phenol	108-95-2	8270C	ND		5.0	0.50	ug/L	1
Pyrene	129-00-0	8270C	ND		5.0	0.60	ug/L	1
1,2,4-Trichlorobenzene	120-82-1	8270C	ND		5.0	0.50	ug/L	1
2,4,6-Trichlorophenol	88-06-2	8270C	ND		5.0	0.40	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
2,4,6-Tribromophenol		64	41-144
2-Fluorobiphenyl		64	37-129
2-Fluorophenol		65	24-127
Nitrobenzene-d5		69	38-127
Phenol-d5		66	28-128
Terphenyl-d14		42	10-148

PQL = Practical quantitation limit
ND = Not detected at or above the MDL
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"
B = Detected in the method blank
J = Estimated result < PQL and > MDL
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria

Library Search

Client: **ARM Environmental Services, Inc.**
Laboratory ID: **GK18011-003**
Description: **MW-6**
Matrix: **Aqueous**
Date Sampled: **11/16/2005 1430**
Date Received: **11/17/2005**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3520C	8270C	1				33583

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
None Detected		**8270C**					**ug/L**	**1**

PQL = Practical quantitation limit
ND = Not detected at or above the MDL
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"
B = Detected in the method blank
J = Estimated result < PQL and ≥ MDL
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria

MADEP EPH

Client: **ARM Environmental Services, Inc.**
Laboratory ID: **GK18011-003**
Description: **MW-6**
Matrix: **Aqueous**
Date Sampled: **11/16/2005 1430**
Date Received: **11/17/2005**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1		MADEP-EPH-04-1	1	11/21/2005 2308			

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
C11 - C22 Aromatics		**MADEP-EPH-04-1**	**58**	**J**	**100**	**31**	**ug/L**	**1**
C19 - C36 Aliphatics		MADEP-EPH-04-1	ND		100	31	ug/L	1
C9 - C18 Aliphatics		MADEP-EPH-04-1	ND		100	31	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
2-Bromonaphthalene		91	40-140
2-Fluorobiphenyl		92	40-140
C - 35		43	40-140
o - Terphenyl		68	40-140

PQL = Practical quantitation limit
ND = Not detected at or above the MDL
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"
B = Detected in the method blank
J = Estimated result < PQL and ≥ MDL
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria

MADEP VPH

Client: **ARM Environmental Services, Inc.**
Laboratory ID: **GK18011-003**
Description: **MW-6**
Matrix: **Aqueous**
Date Sampled: **11/16/2005 1430**
Date Received: **11/17/2005**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1		MADEP-VPH-04-1.1	1	11/23/2005 0129			

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
C9 - C10 Aromatics		MADEP-VPH-04-1.1	ND		100	3.4	ug/L	1
C5 - C8 Aliphatics		MADEP-VPH-04-1.1	ND		100	18	ug/L	1
C9 - C12 Aliphatics		**MADEP-VPH-04-1.1**	**63**	**J**	**100**	**16**	**ug/L**	**1**

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
2,5-Dibromotoluene (FID)		96	70-130
2,5-Dibromotoluene (PID)		86	70-130

PQL = Practical quantitation limit
ND = Not detected at or above the MDL
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"
B = Detected in the method blank
J = Estimated result < PQL and > MDL
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria

Volatile Organic Compounds by GC/MS

Client: **ARM Environmental Services, Inc.**
Laboratory ID: **GK18011-004**
Description: **MW-7d**
Matrix: **Aqueous**
Date Sampled: **11/16/2005 1530**
Date Received: **11/17/2005**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	11/22/2005 1548	CMS		33528

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Benzene	71-43-2	8260B	ND		1.0	0.13	ug/L	1
Chlorobenzene	108-90-7	8260B	ND		1.0	0.14	ug/L	1
1,2-Dibromoethane (EDB)	106-93-4	8260B	ND		1.0	0.30	ug/L	1
1,2-Dichlorobenzene	95-50-1	8260B	ND		1.0	0.30	ug/L	1
1,3-Dichlorobenzene	541-73-1	8260B	ND		1.0	0.30	ug/L	1
1,4-Dichlorobenzene	106-46-7	8260B	ND		1.0	0.20	ug/L	1
Diisopropyl ether (IPE)	**108-20-3**	**8260B**	**0.56**	**J**	**1.0**	**0.40**	**ug/L**	**1**
Ethylbenzene	100-41-4	8260B	ND		1.0	0.17	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		1.0	0.40	ug/L	1
Toluene	108-88-3	8260B	ND		1.0	0.17	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		1.0	0.22	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		115	52-138
Bromofluorobenzene		115	70-147
Toluene-d8		116	76-125

PQL = Practical quantitation limit
ND = Not detected at or above the MDL
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"
B = Detected in the method blank
J = Estimated result < PQL and ≥ MDL
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria

Semivolatile Organic Compounds by GC/MS

Client: **ARM Environmental Services, Inc.** Laboratory ID: **GK18011-004**
Description: **MW-7d** Matrix: **Aqueous**
Date Sampled: **11/16/2005 1530**
Date Received: **11/17/2005**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3520C	8270C	1	11/23/2005 2014	DC	11/21/2005 1710	33438

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Acenaphthene	83-32-9	8270C	ND		5.0	0.50	ug/L	1
Acenaphthylene	208-96-8	8270C	ND		5.0	0.50	ug/L	1
Anthracene	120-12-7	8270C	ND		5.0	0.40	ug/L	1
Benzidine	92-87-5	8270C	ND		25	9.4	ug/L	1
Benzo(a)anthracene	56-55-3	8270C	ND		5.0	0.80	ug/L	1
Benzo(a)pyrene	50-32-8	8270C	ND		5.0	1.4	ug/L	1
Benzo(b)fluoranthene	205-99-2	8270C	ND		5.0	0.90	ug/L	1
Benzo(g,h,i)perylene	191-24-2	8270C	ND		5.0	0.40	ug/L	1
Benzo(k)fluoranthene	207-08-9	8270C	ND		5.0	1.0	ug/L	1
4-Bromophenyl phenyl ether	101-55-3	8270C	ND		5.0	0.60	ug/L	1
Butyl benzyl phthalate	85-68-7	8270C	ND		10	0.60	ug/L	1
4-Chloro-3-methyl phenol	59-50-7	8270C	ND		5.0	0.40	ug/L	1
bis(2-Chloroethoxy)methane	111-91-1	8270C	ND		5.0	0.70	ug/L	1
bis(2-Chloroethyl)ether	111-44-4	8270C	ND		5.0	0.60	ug/L	1
bis(2-Chloroisopropyl)ether	108-60-1	8270C	ND		5.0	0.50	ug/L	1
2-Chloronaphthalene	91-58-7	8270C	ND		5.0	0.50	ug/L	1
2-Chlorophenol	95-57-8	8270C	ND		5.0	0.50	ug/L	1
4-Chlorophenyl phenyl ether	7005-72-3	8270C	ND		5.0	0.50	ug/L	1
Chrysene	218-01-9	8270C	ND		5.0	0.90	ug/L	1
Di-n-butyl phthalate	**84-74-2**	**8270C**	**2.2**	**J**	**5.0**	**1.4**	**ug/L**	**1**
Di-n-octylphthalate	117-84-0	8270C	ND		5.0	0.90	ug/L	1
Dibenzo(a,h)anthracene	53-70-3	8270C	ND		5.0	0.60	ug/L	1
1,2-Dichlorobenzene	95-50-1	8270C	ND		5.0	0.50	ug/L	1
1,3-Dichlorobenzene	541-73-1	8270C	ND		5.0	0.50	ug/L	1
1,4-Dichlorobenzene	106-46-7	8270C	ND		5.0	0.60	ug/L	1
3,3'-Dichlorobenzidine	91-94-1	8270C	ND		25	5.9	ug/L	1
2,4-Dichlorophenol	120-83-2	8270C	ND		5.0	0.40	ug/L	1
Diethylphthalate	**84-66-2**	**8270C**	**1.3**	**BJ**	**5.0**	**0.50**	**ug/L**	**1**
Dimethyl phthalate	131-11-3	8270C	ND		5.0	0.50	ug/L	1
2,4-Dimethylphenol	105-67-9	8270C	ND		5.0	0.80	ug/L	1
4,6-Dinitro-2-methylphenol	534-52-1	8270C	ND		25	1.5	ug/L	1
2,4-Dinitrophenol	51-28-5	8270C	ND		25	1.1	ug/L	1
2,4-Dinitrotoluene	121-14-2	8270C	ND		10	1.0	ug/L	1
2,6-Dinitrotoluene	606-20-2	8270C	ND		10	1.1	ug/L	1
1,2-Diphenylhydrazine(as azobenzene)	103-33-3	8270C	ND		5.0	0.70	ug/L	1
bis(2-Ethylhexyl)phthalate	117-81-7	8270C	ND		5.0	3.8	ug/L	1
Fluoranthene	206-44-0	8270C	ND		5.0	0.60	ug/L	1
Fluorene	86-73-7	8270C	ND		5.0	0.50	ug/L	1
Hexachlorobenzene	118-74-1	8270C	ND		5.0	0.50	ug/L	1
Hexachlorobutadiene	87-68-3	8270C	ND		5.0	0.50	ug/L	1
Hexachlorocyclopentadiene	77-47-4	8270C	ND		25	2.1	ug/L	1
Hexachloroethane	67-72-1	8270C	ND		5.0	0.50	ug/L	1
Indeno(1,2,3-c,d)pyrene	193-39-5	8270C	ND		5.0	0.40	ug/L	1
Isophorone	78-59-1	8270C	ND		5.0	0.50	ug/L	1
N-Nitrosodi-n-propylamine	621-64-7	8270C	ND		5.0	0.40	ug/L	1
N-Nitrosodimethylamine	62-75-9	8270C	ND		5.0	0.70	ug/L	1

PQL = Practical quantitation limit
ND = Not detected at or above the MDL
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"
B = Detected in the method blank
J = Estimated result < PQL and > MDL
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria

Semivolatile Organic Compounds by GC/MS

Client: **ARM Environmental Services, Inc.**
Laboratory ID: **GK18011-004**
Description: **MW-7d**
Matrix: **Aqueous**
Date Sampled: **11/16/2005 1530**
Date Received: **11/17/2005**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3520C	8270C	1	11/23/2005 2014	DC	11/21/2005 1710	33438

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
N-Nitrosodiphenylamine/Diphenylamine	86-30-6	8270C	ND		5.0	2.1	ug/L	1
Naphthalene	91-20-3	8270C	ND		5.0	0.60	ug/L	1
Nitrobenzene	98-95-3	8270C	ND		5.0	0.50	ug/L	1
2-Nitrophenol	88-75-5	8270C	ND		10	1.2	ug/L	1
4-Nitrophenol	100-02-7	8270C	ND		25	2.5	ug/L	1
Pentachlorophenol	87-86-5	8270C	ND		25	2.9	ug/L	1
Phenanthrene	85-01-8	8270C	ND		5.0	0.50	ug/L	1
Phenol	108-95-2	8270C	ND		5.0	0.50	ug/L	1
Pyrene	129-00-0	8270C	ND		5.0	0.60	ug/L	1
1,2,4-Trichlorobenzene	120-82-1	8270C	ND		5.0	0.50	ug/L	1
2,4,6-Trichlorophenol	88-06-2	8270C	ND		5.0	0.40	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
2,4,6-Tribromophenol		59	41-144
2-Fluorobiphenyl		60	37-129
2-Fluorophenol		60	24-127
Nitrobenzene-d5		66	38-127
Phenol-d5		62	28-128
Terphenyl-d14		52	10-148

PQL = Practical quantitation limit
ND = Not detected at or above the MDL
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"
B = Detected in the method blank
J = Estimated result < PQL and ≥ MDL
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria

Library Search

Client: **ARM Environmental Services, Inc.**
Laboratory ID: **GK18011-004**
Description: **MW-7d**
Matrix: **Aqueous**
Date Sampled: **11/16/2005 1530**
Date Received: **11/17/2005**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3520C	8270C	1	11/23/2005 2014	DC		33583

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Ethyl Acetate		**8270C**	**32**				**ug/L**	**1**
2(3H)-Furanone, 5-heptyldihydro-		**8270C**	**31**				**ug/L**	**1**

PQL = Practical quantitation limit
ND = Not detected at or above the MDL
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

B = Detected in the method blank
J = Estimated result < PQL and ≥ MDL

E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria

MADEP EPH

Client: **ARM Environmental Services, Inc.**
Laboratory ID: **GK18011-004**
Description: **MW-7d**
Matrix: **Aqueous**
Date Sampled: **11/16/2005 1530**
Date Received: **11/17/2005**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1		MADEP-EPH-04-1	1	11/22/2005 0002			

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
C11 - C22 Aromatics		**MADEP-EPH-04-1**	**74**	**J**	**100**	**31**	**ug/L**	**1**
C19 - C36 Aliphatics		**MADEP-EPH-04-1**	**82**	**J**	**100**	**31**	**ug/L**	**1**
C9 - C18 Aliphatics		MADEP-EPH-04-1	ND		100	31	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
2-Bromonaphthalene		108	40-140
2-Fluorobiphenyl		105	40-140
C - 35		41	40-140
o - Terphenyl		64	40-140

PQL = Practical quantitation limit
ND = Not detected at or above the MDL
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

B = Detected in the method blank
J = Estimated result < PQL and ≥ MDL

E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria

MADEP VPH

Client: **ARM Environmental Services, Inc.**
Laboratory ID: **GK18011-004**
Description: **MW-7d**
Matrix: **Aqueous**
Date Sampled: **11/16/2005 1530**
Date Received: **11/17/2005**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1		MADEP-VPH-04-1.1	1	11/23/2005 0206			

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
C9 - C10 Aromatics		MADEP-VPH-04-1.1	ND		100	3.4	ug/L	1
C5 - C8 Aliphatics		MADEP-VPH-04-1.1	ND		100	18	ug/L	1
C9 - C12 Aliphatics		**MADEP-VPH-04-1.1**	**59**	**J**	**100**	**16**	**ug/L**	**1**

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
2,5-Dibromotoluene (FID)		91	70-130
2,5-Dibromotoluene (PID)		81	70-130

PQL = Practical quantitation limit
ND = Not detected at or above the MDL
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

B = Detected in the method blank
J = Estimated result < PQL and ≥ MDL

E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria

Subcontracted Data

TestAmerica
ANALYTICAL TESTING CORPORATION
2960 Foster Creighton Road Nashville, TN 37204 * 800-765-0980 * Fax 615-726-3404

November 29, 2005

Client: Shealy Environmental Services (8677)
106 Vantage Point Drive
Cayce, SC 29033
Attn: Alison Edwards

Work Order: NOK2406
Project Name: Shealy Environmental Services- NC
Project Nbr: [none]
Date Received: 11/18/05

SAMPLE IDENTIFICATION	LAB NUMBER	COLLECTION DATE AND TIME
MW-4	NOK2406-01	11/16/05 13:30
MW-5	NOK2406-02	11/16/05 14:00
MW-6	NOK2406-03	11/16/05 14:30
MW-7d	NOK2406-04	11/16/05 15:30

An executed copy of the chain of custody, the project quality control data, and the sample receipt form are also included as an addendum to this report. If you have any questions relating to this analytical report, please contact your Laboratory Project Manager at 1-800-765-0980. Any opinions, if expressed, are outside the scope of the Laboratory's accredidation.

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North Carolina Certification Number: 387

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:

Jessica Vickers
Senior Project Manager

TestAmerica
ANALYTICAL TESTING CORPORATION
2960 Foster Creighton Road Nashville, TN 37204 * 800-765-0980 * Fax 615-726-3404

Client	Shealy Environmental Services (8677)	Work Order:	NOK2406
	106 Vantage Point Drive	Project Name:	Shealy Environmental Services- NC
	Cayce, SC 29033	Project Number:	[none]
Attn	Alison Edwards	Received:	11/18/05 07:55

ANALYTICAL REPORT

Analyte	Result	Flag	Units	MDL	MRL	Dilution Factor	Analysis Date/Time	Method	Analyst	Batch
Sample ID: NOK2406-01 (MW-4 - Water) Sampled: 11/16/05 13:30										
Extractable Petroleum Hydrocarbons										
C9 - C18 Aliphatic Hydrocarbons	ND		ug/L	60.0	200	1	11/21/05 21:21	MADEP EPH	lrw	5113408
C19 - C36 Aliphatic Hydrocarbons	ND		ug/L	24.0	200	1	11/21/05 21:21	MADEP EPH	lrw	5113408
C11 - C22 Aromatic Hydrocarbons, Unadjust	288		ug/L	62.0	200	1	11/21/05 21:48	MADEP EPH	lrw	5113408
Surrogate: 1-Chlorooctadecane (40-140%)	*58 %*			-	-	*1*	*11/21/05 21:21*	*MADEP EPH*	*lrw*	*5113408*
Surrogate: o-Terphenyl (40-140%)	*81 %*			-	-	*1*	*11/21/05 21:48*	*MADEP EPH*	*lrw*	*5113408*
Surrogate: 2-Fluorobiphenyl (40-140%)	*98 %*			-	-	*1*	*11/21/05 21:48*	*MADEP EPH*	*lrw*	*5113408*
Surrogate: 2-Bromonaphthalene (40-140%)	*99 %*			-	-	*1*	*11/21/05 21:48*	*MADEP EPH*	*lrw*	*5113408*
Purgeable Petroleum Hydrocarbons										
C5 - C8 Aliphatic Hydrocarbons, Unadjusted	575		ug/L	50.0	100	1	11/23/05 00:15	MADEP VPH	do	5114008
C9 - C10 Aromatic Hydrocarbons	392		ug/L	50.0	100	1	11/23/05 00:15	MADEP VPH	do	5114008
C9 - C12 Aliphatic Hydrocarbons	165		ug/L	50.0	100	1	11/23/05 00:15	MADEP VPH	do	[CALC]
Surrogate: 2,5-Dibromotoluene (FID) (70-130%)	*151 %*	*ZX*		-	-	*1*	*11/23/05 00:15*	*MADEP VPH*	*do*	*5114008*
Surrogate: 2,5-Dibromotoluene (PID) (70-130%)	*74 %*			-	-	*1*	*11/23/05 00:15*	*MADEP VPH*	*do*	*5114008*
Sample ID: NOK2406-02 (MW-5 - Water) Sampled: 11/16/05 14:00										
Extractable Petroleum Hydrocarbons										
C9 - C18 Aliphatic Hydrocarbons	ND		ug/L	30.0	100	1	11/21/05 22:15	MADEP EPH	lrw	5113408
C19 - C36 Aliphatic Hydrocarbons	ND		ug/L	12.0	100	1	11/21/05 22:15	MADEP EPH	lrw	5113408
C11 - C22 Aromatic Hydrocarbons, Unadjust	54.3	J	ug/L	31.0	100	1	11/21/05 22:42	MADEP EPH	lrw	5113408
Surrogate: 1-Chlorooctadecane (40-140%)	*42 %*			-	-	*1*	*11/21/05 22:15*	*MADEP EPH*	*lrw*	*5113408*
Surrogate: o-Terphenyl (40-140%)	*69 %*			-	-	*1*	*11/21/05 22:42*	*MADEP EPH*	*lrw*	*5113408*
Surrogate: 2-Fluorobiphenyl (40-140%)	*84 %*			-	-	*1*	*11/21/05 22:42*	*MADEP EPH*	*lrw*	*5113408*
Surrogate: 2-Bromonaphthalene (40-140%)	*87 %*			-	-	*1*	*11/21/05 22:42*	*MADEP EPH*	*lrw*	*5113408*
Purgeable Petroleum Hydrocarbons										
C5 - C8 Aliphatic Hydrocarbons, Unadjusted	ND		ug/L	50.0	100	1	11/23/05 00:52	MADEP VPH	do	5114008
C9 - C10 Aromatic Hydrocarbons	ND		ug/L	50.0	100	1	11/23/05 00:52	MADEP VPH	do	5114008
C9 - C12 Aliphatic Hydrocarbons	76.7	J	ug/L	50.0	100	1	11/23/05 00:52	MADEP VPH	do	[CALC]
Surrogate: 2,5-Dibromotoluene (FID) (70-130%)	*102 %*			-	-	*1*	*11/23/05 00:52*	*MADEP VPH*	*do*	*5114008*
Surrogate: 2,5-Dibromotoluene (PID) (70-130%)	*78 %*			-	-	*1*	*11/23/05 00:52*	*MADEP VPH*	*do*	*5114008*
Sample ID: NOK2406-03 (MW-6 - Water) Sampled: 11/16/05 14:30										
Extractable Petroleum Hydrocarbons										
C9 - C18 Aliphatic Hydrocarbons	ND		ug/L	30.0	100	1	11/21/05 23:08	MADEP EPH	lrw	5113408
C19 - C36 Aliphatic Hydrocarbons	ND		ug/L	12.0	100	1	11/21/05 23:08	MADEP EPH	lrw	5113408
C11 - C22 Aromatic Hydrocarbons, Unadjust	58.3	J	ug/L	31.0	100	1	11/21/05 23:35	MADEP EPH	lrw	5113408
Surrogate: 1-Chlorooctadecane (40-140%)	*43 %*			-	-	*1*	*11/21/05 23:08*	*MADEP EPH*	*lrw*	*5113408*
Surrogate: o-Terphenyl (40-140%)	*68 %*			-	-	*1*	*11/21/05 23:35*	*MADEP EPH*	*lrw*	*5113408*
Surrogate: 2-Fluorobiphenyl (40-140%)	*92 %*			-	-	*1*	*11/21/05 23:35*	*MADEP EPH*	*lrw*	*5113408*
Surrogate: 2-Bromonaphthalene (40-140%)	*91 %*			-	-	*1*	*11/21/05 23:35*	*MADEP EPH*	*lrw*	*5113408*
Purgeable Petroleum Hydrocarbons										
C5 - C8 Aliphatic Hydrocarbons, Unadjusted	ND		ug/L	50.0	100	1	11/23/05 01:29	MADEP VPH	do	5114008
C9 - C10 Aromatic Hydrocarbons	ND		ug/L	50.0	100	1	11/23/05 01:29	MADEP VPH	do	5114008
C9 - C12 Aliphatic Hydrocarbons	63.3	J	ug/L	50.0	100	1	11/23/05 01:29	MADEP VPH	do	[CALC]

TestAmerica
ANALYTICAL TESTING CORPORATION
2960 Foster Creighton Road Nashville, TN 37204 * 800-765-0980 * Fax 615-726-3404

Client	Shealy Environmental Services (8677)	Work Order:	NOK2406
	106 Vantage Point Drive	Project Name:	Shealy Environmental Services- NC
	Cayce, SC 29033	Project Number:	[none]
Attn	Alison Edwards	Received:	11/18/05 07:55

ANALYTICAL REPORT

Analyte	Result	Flag	Units	MDL	MRL	Dilution Factor	Analysis Date/Time	Method	Analyst	Batch
Sample ID: NOK2406-03 (MW-6 - Water) - cont. Sampled: 11/16/05 14:30										
Purgeable Petroleum Hydrocarbons - cont.										
Surrogate: 2,5-Dibromotoluene (FID) (70-130%)	*96 %*		-		-	*1*	*11/23/05 01:29*	*MADEP VPH*	*do*	*5114008*
Surrogate: 2,5-Dibromotoluene (PID) (70-130%)	*86 %*		-		-	*1*	*11/23/05 01:29*	*MADEP VPH*	*do*	*5114008*
Sample ID: NOK2406-04 (MW-7d - Water) Sampled: 11/16/05 15:30										
Extractable Petroleum Hydrocarbons										
C9 - C18 Aliphatic Hydrocarbons	ND		ug/L	30.0	100	1	11/22/05 00:02	MADEP EPH	lrw	5113408
C19 - C36 Aliphatic Hydrocarbons	**82.0**	J	ug/L	12.0	100	1	11/22/05 00:02	MADEP EPH	lrw	5113408
C11 - C22 Aromatic Hydrocarbons, Unadjust	**73.5**	J	ug/L	31.0	100	1	11/22/05 00:29	MADEP EPH	lrw	5113408
Surrogate: 1-Chlorooctadecane (40-140%)	*41 %*		-		-	*1*	*11/22/05 00:02*	*MADEP EPH*	*lrw*	*5113408*
Surrogate: o-Terphenyl (40-140%)	*64 %*		-		-	*1*	*11/22/05 00:29*	*MADEP EPH*	*lrw*	*5113408*
Surrogate: 2-Fluorobiphenyl (40-140%)	*105 %*		-		-	*1*	*11/22/05 00:29*	*MADEP EPH*	*lrw*	*5113408*
Surrogate: 2-Bromonaphthalene (40-140%)	*108 %*		-		-	*1*	*11/22/05 00:29*	*MADEP EPH*	*lrw*	*5113408*
Purgeable Petroleum Hydrocarbons										
C5 - C8 Aliphatic Hydrocarbons, Unadjusted	ND		ug/L	50.0	100	1	11/23/05 02:06	MADEP VPH	do	5114008
C9 - C10 Aromatic Hydrocarbons	ND		ug/L	50.0	100	1	11/23/05 02:06	MADEP VPH	do	5114008
C9 - C12 Aliphatic Hydrocarbons	**58.7**	J	ug/L	50.0	100	1	11/23/05 02:06	MADEP VPH	do	[CALC]
Surrogate: 2,5-Dibromotoluene (FID) (70-130%)	*91 %*		-		-	*1*	*11/23/05 02:06*	*MADEP VPH*	*do*	*5114008*
Surrogate: 2,5-Dibromotoluene (PID) (70-130%)	*81 %*		-		-	*1*	*11/23/05 02:06*	*MADEP VPH*	*do*	*5114008*

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Client	Shealy Environmental Services (8677)	Work Order:	NOK2406
	106 Vantage Point Drive	Project Name:	Shealy Environmental Services- NC
	Cayce, SC 29033	Project Number:	[none]
Attn	Alison Edwards	Received:	11/18/05 07:55

SAMPLE EXTRACTION DATA

Parameter	Batch	Lab Number	Wt/Vol Extracted	Extracted Vol	Date	Analyst	Extraction Method
Extractable Petroleum Hydrocarbons							
MADEP EPH	5113408	NOK2406-01	500.00	1.00	11/19/05 14:35	CEC	MADEP
MADEP EPH	5113408	NOK2406-02	1000.00	1.00	11/19/05 14:35	CEC	MADEP
MADEP EPH	5113408	NOK2406-03	1000.00	1.00	11/19/05 14:35	CEC	MADEP
MADEP EPH	5113408	NOK2406-04	1000.00	1.00	11/19/05 14:35	CEC	MADEP
Purgeable Petroleum Hydrocarbons							
MADEP VPH	5114008	NOK2406-01	5.00	5.00	11/16/05 13:30	RLB	MADEP
MADEP VPH	5114008	NOK2406-02	5.00	5.00	11/16/05 14:00	RLB	MADEP
MADEP VPH	5114008	NOK2406-03	5.00	5.00	11/16/05 14:30	RLB	MADEP
MADEP VPH	5114008	NOK2406-04	5.00	5.00	11/16/05 15:30	RLB	MADEP

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Client	Shealy Environmental Services (8677)	Work Order:	NOK2406
	106 Vantage Point Drive	Project Name:	Shealy Environmental Services- NC
	Cayce, SC 29033	Project Number:	[none]
Attn	Alison Edwards	Received:	11/18/05 07:55

PROJECT QUALITY CONTROL DATA
Blank

Analyte	Blank Value	Q	Units	Q.C. Batch	Lab Number	Analyzed Date/Time
Extractable Petroleum Hydrocarbons						
5113408-BLK1						
C9 - C18 Aliphatic Hydrocarbons	<30.0		ug/L	5113408	5113408-BLK1	11/21/05 18:39
C19 - C36 Aliphatic Hydrocarbons	<12.0		ug/L	5113408	5113408-BLK1	11/21/05 18:39
C11 - C22 Aromatic Hydrocarbons, Unadjus	66.8	J	ug/L	5113408	5113408-BLK1	11/21/05 19:06
Surrogate: 1-Chlorooctadecane	61%			5113408	5113408-BLK1	11/21/05 18:39
Surrogate: o-Terphenyl	94%			5113408	5113408-BLK1	11/21/05 19:06
Surrogate: 2-Fluorobiphenyl	103%			5113408	5113408-BLK1	11/21/05 19:06
Surrogate: 2-Bromonaphthalene	100%			5113408	5113408-BLK1	11/21/05 19:06
Purgeable Petroleum Hydrocarbons						
5114008-BLK1						
C5 - C8 Aliphatic Hydrocarbons, Unadjuste	<50.0		ug/L	5114008	5114008-BLK1	11/22/05 12:47
C9 - C10 Aromatic Hydrocarbons	<50.0		ug/L	5114008	5114008-BLK1	11/22/05 12:47
C9 - C12 Aliphatic Hydrocarbons, Unadjust	69.4	J	ug/L	5114008	5114008-BLK1	11/22/05 12:47
rrogate: 2,5-Dibromotoluene (FID)	110%			5114008	5114008-BLK1	11/22/05 12:47
urrogate: 2,5-Dibromotoluene (PID)	89%			5114008	5114008-BLK1	11/22/05 12:47

TestAmerica
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Client	Shealy Environmental Services (8677)	Work Order:	NOK2406
	106 Vantage Point Drive	Project Name:	Shealy Environmental Services- NC
	Cayce, SC 29033	Project Number:	[none]
Attn	Alison Edwards	Received:	11/18/05 07:55

PROJECT QUALITY CONTROL DATA
LCS

Analyte	Known Val.	Analyzed Val	Q	Units	% Rec.	Target Range	Batch	Analyzed Date/Time
Extractable Petroleum Hydrocarbons								
5113408-BS1								
C9 - C18 Aliphatic Hydrocarbons	150	68.2	J	ug/L	45%	40 - 140	5113408	11/21/05 19:33
C19 - C36 Aliphatic Hydrocarbons	200	175		ug/L	88%	40 - 140	5113408	11/21/05 19:33
C11 - C22 Aromatic Hydrocarbons, Unadjustec	425	377		ug/L	89%	40 - 140	5113408	11/21/05 20:00
Surrogate: 1-Chlorooctadecane	20.0	15.2			76%	40 - 140	5113408	11/21/05 19:33
Surrogate: o-Terphenyl	20.0	23.7			118%	40 - 140	5113408	11/21/05 20:00
Surrogate: 2-Fluorobiphenyl	40.0	41.8			104%	40 - 140	5113408	11/21/05 20:00
Surrogate: 2-Bromonaphthalene	40.0	41.4			104%	40 - 140	5113408	11/21/05 20:00
Purgeable Petroleum Hydrocarbons								
5114008-BS1								
C5 - C8 Aliphatic Hydrocarbons, Unadjusted	150	142		ug/L	95%	70 - 130	5114008	11/22/05 10:56
C9 - C10 Aromatic Hydrocarbons	50.0	56.1		ug/L	112%	70 - 130	5114008	11/22/05 10:56
C9 - C12 Aliphatic Hydrocarbons, Unadjusted	100	80.8		ug/L	81%	70 - 130	5114008	11/22/05 10:56
urrogate: 2,5-Dibromotoluene (FID)	90.0	92.1			102%	70 - 130	5114008	11/22/05 10:56
Surrogate: 2,5-Dibromotoluene (PID)	90.0	86.8			96%	70 - 130	5114008	11/22/05 10:56

TestAmerica
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2960 Foster Creighton Road Nashville, TN 37204 * 800-765-0980 * Fax 615-726-3404

Client	Shealy Environmental Services (8677)	Work Order:	NOK2406
	106 Vantage Point Drive	Project Name:	Shealy Environmental Services- NC
	Cayce, SC 29033	Project Number:	[none]
Attn	Alison Edwards	Received:	11/18/05 07:55

PROJECT QUALITY CONTROL DATA
LCS Dup

Analyte	Orig. Val.	Duplicate	Q	Units	Spike Conc	% Rec.	Target Range	RPD	Limit	Batch	Sample Duplicated	Analyzed Date/Time
Extractable Petroleum Hydrocarbons												
5113408-BSD1												
C9 - C18 Aliphatic Hydrocarbons		78.0	J	ug/L	150	52%	40 - 140	13	50	5113408		11/21/05 20:26
C19 - C36 Aliphatic Hydrocarbons		174		ug/L	200	87%	40 - 140	0.6	50	5113408		11/21/05 20:26
C11 - C22 Aromatic Hydrocarbons, Unadjuste		358		ug/L	425	84%	40 - 140	5	50	5113408		11/21/05 20:54
Surrogate: 1-Chlorooctadecane		16.2		ug/L	20.0	81%	40 - 140			5113408		11/21/05 20:26
Surrogate: o-Terphenyl		21.2		ug/L	20.0	106%	40 - 140			5113408		11/21/05 20:54
Surrogate: 2-Fluorobiphenyl		40.0		ug/L	40.0	100%	40 - 140			5113408		11/21/05 20:54
Surrogate: 2-Bromonaphthalene		38.2		ug/L	40.0	96%	40 - 140			5113408		11/21/05 20:54
Purgeable Petroleum Hydrocarbons												
5114008-BSD1												
C5 - C8 Aliphatic Hydrocarbons, Unadjusted		153		ug/L	150	102%	70 - 130	7	25	5114008		11/23/05 08:51
C9 - C10 Aromatic Hydrocarbons		56.8		ug/L	50.0	114%	70 - 130	1	25	5114008		11/23/05 08:51
C9 - C12 Aliphatic Hydrocarbons, Unadjusted		87.4		ug/L	100	87%	70 - 130	8	25	5114008		11/23/05 08:51
urrogate: 2,5-Dibromotoluene (FID)		87.8		ug/L	90.0	98%	70 - 130			5114008		11/23/05 08:51
Surrogate: 2,5-Dibromotoluene (PID)		77.9		ug/L	90.0	87%	70 - 130			5114008		11/23/05 08:51

TestAmerica
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Client	Shealy Environmental Services (8677) 106 Vantage Point Drive Cayce, SC 29033	Work Order:	NOK2406
		Project Name:	Shealy Environmental Services- NC
		Project Number:	[none]
Attn	Alison Edwards	Received:	11/18/05 07:55

CERTIFICATION SUMMARY

TestAmerica Analytical - Nashville

Method	Matrix	AIHA	Nelac	North Carolina
MADEP EPH	Water	N/A	X	X
MADEP VPH	Water	N/A	X	X

TestAmerica
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Client	Shealy Environmental Services (8677)	Work Order:	NOK2406
	106 Vantage Point Drive	Project Name:	Shealy Environmental Services- NC
	Cayce, SC 29033	Project Number:	[none]
Attn	Alison Edwards	Received:	11/18/05 07:55

DATA QUALIFIERS AND DEFINITIONS

J	Estimated value. Analyte detected at a level less than the Reporting Limit (RL) and greater than or equal to the Method Detection Limit (MDL). The user of this data should be aware that this data is of limited reliability.
ZX	Due to sample matrix effects, the surrogate recovery was outside the acceptance limits.

METHOD MODIFICATION NOTES

TestAmerica
ANALYTICAL TESTING CORPORATION
Nashville Division

COOLER RECEIPT FORM **BC#** NOK2406

Client Name : SHEALY

Cooler Received/Opened On: 11/18/05 **Accessioned By:** Benjamin C.Wright

Log-in Personnel Signature

1. Temperature of Cooler when triaged: 2.2 Degrees Celsius
2. Were custody seals on outside of cooler?..... YES...NO...NA
   a. If yes, how many and where:_____
3. Were custody seals on containers ?..... NO...YES...NA
4. Were the seals intact, signed, and dated correctly?..... YES....NO...NA
5. Were custody papers inside cooler?..... YES...NO...NA
6. Were custody papers properly filled out (ink, signed, etc)?..... YES....NO...NA
7. Did you sign the custody papers in the appropriate place?..... YES...NO...NA
8. What kind of packing material used? Bubblewrap Peanuts Vermiculite Other None zip-lock baggies Foam insert
9. Cooling process: Ice Ice-pack Ice (direct contact) Dry ice Other None
10. Did all containers arrive in good condition (unbroken)?..... YES...NO...NA
11. Were all container labels complete (#, date, signed, pres., etc)?..... YES...NO...NA
12. Did all container labels and tags agree with custody papers?..... YES...NO...NA
13. Were correct containers used for the analysis requested?..... YES...NO...NA
14. a. Were VOA vials received?..... YES...NO...NA
    b. Was there any observable head space present in any VOA vial?..... NO...YES...NA
15. Was sufficient amount of sample sent in each container?..... YES...NO...NA
16. Were correct preservatives used?..... YES...NO...NA
    If not, record standard ID of preservative used here_____
17. Was residual chlorine present?..... NO...YES...NA
18. Indicate the Airbill Tracking Number (last 4 digits for Fedex only) and Name of Courier below:
    0985
    Fed-Ex UPS Velocity DHL Route Off-street Misc.
19. If a Non-Conformance exists, see attached or comments below:

SHEALY ENVIRONMENTAL SERVICES, INC.
106 Vantage Point Drive
Cayce, South Carolina 29033
Telephone No. (803) 791-9700 Fax No. (803) 791-9111

SHEALY Chain of Custody Record

Number 53212

Client: ARM Environmental Services	Report to Contact: Dave Hunter	Telephone No. / Fax No. / E-mail: (704) 369-0621 (704) 369-0623	Quote No.
Address: 11164 Downs Road	Sampler's Signature: X David A. Hunter	Waybill No.	Page 1 of 1
City: Pineville; State: NC; Zip Code: 28134	Printed Name: David A. Hunter	Analysis (Attach list if more space is needed.): 4 for NC UST work	
Project Name: Vickers Realty - Ph II LSA			
Project No.: N20-952-05; P.O. No.			Lot No.: GK18011

Sample ID / Description (Containers for each sample may be combined on one line.)	Date	Time	G=Grab C=Composite	Matrix: Aqueous	Solid	Non-Aqueous	No. of Containers by Preservative Type: Unpres.	H2SO4	HNO3	HCl	NaOH	5035 Kit	CNC UST	EPA 8260	VPH	EPA 625 SVOCs	EPH	Remarks / Cooler I.D.
MW-4	11/16/05	13:30	G	X			2			7			X	X	X	X		5 Day TAT
MW-5	↓	14:00	↓	X			↓			↓			X	X	X	X		Results Due
MW-6	↓	14:30	↓	X			↓			↓			X	X	X	X		Monday
MW-7d	↓	15:30	↓	X			↓			↓			X	X	X	X		11-28-05

Possible Hazard Identification: ☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison ☐ Unknown

Sample Disposal: ☐ Return to Client ☒ Disposal by Lab

Note: All samples are retained for six weeks from receipt unless other arrangements are made.

Turn Around Time Required (Prior lab approval required for expedited TAT.): ☒ Standard ☐ Rush (Specify) Due Mon/Tues, Nov 28/29, 2005

QC Requirements (Specify): NC UST

1. Relinquished by: David A. Hunter	Date: 11/17/05	Time: 13:20	1. Received by: [signature]	Date: 11-17-05	Time: 13:20
2. Relinquished by: [signature]	Date: 11-17-05	Time: 18W	2. Received by:	Date:	Time:
3. Relinquished by:	Date:	Time:	3. Laboratory received by: [signature]	Date: 11/17/05	Time: 18W

Comments:

LAB USE ONLY
Received on ice (Circle) (Yes) No Ice Pack
Receipt Temp. 1-6 °C

DISTRIBUTION: WHITE & YELLOW-Return to laboratory with Sample(s); PINK-Field/Client Copy

Document Number: F-AD-012 Effective Date: 08-04-02

Sample Receipt Checklist

Client: ARM Cooler Inspected by/date: ECC / 11-18-05 Lot #: CH1801J

Means of receipt: ☑ SESI ☐ Client ☐ UPS ☐ FedEx ☐ Airborne Exp ☐ Other

Yes ☐	No ☑	NA ☐	1. Were custody seals present on the cooler?
Yes ☐	No ☐	NA ☑	2. If custody seals were present, were they intact and unbroken?

Cooler temperature upon receipt 1-4 °C ____ °C ____ °C ____ °C ____ °C
Method: ☐ Temperature Blank ☑ Against Bottles
Method of coolant: ☑ Wet Ice ☐ Blue Ice ☐ Dry Ice ☐ None

If response is No (or Yes for 13,14,15), an explanation/resolution must be provided.

Yes ☐	No ☐	NA ☑	3. Is the commercial courier's packing slip attached to this form?
Yes ☑	No ☐	NA ☐	4. Were proper custody procedures (relinquished/received) followed?
Yes ☑	No ☐	NA ☐	5. Were sample IDs listed?
Yes ☑	No ☐	NA ☐	6. Was collection date & time listed?
Yes ☑	No ☐	NA ☐	7. Were tests to be performed listed on the COC or was quote # provided?
Yes ☑	No ☐	NA ☐	8. Did all samples arrive in the proper containers for each test?
Yes ☑	No ☐	NA ☐	9. Did all container label information (ID, date, time) agree with COC?
Yes ☑	No ☐	NA ☐	10. Did all containers arrive in good condition (unbroken, lids on, etc.)?
Yes ☑	No ☐	NA ☐	11. Was adequate sample volume available?
Yes ☑	No ☐	NA ☐	12. Were all samples received within ½ the holding time or 48 hours, whichever comes first?
Yes ☐	No ☑	NA ☐	13. Were any samples containers missing?
Yes ☐	No ☑	NA ☐	14. Were there any excess samples not listed on COC?
Yes ☐	No ☑	NA ☐	15. Were bubbles present >"pea-size" (¼"or 6mm in diameter) in any VOA vials?
Yes ☐	No ☐	NA ☑	16. Were all metals/O&G/HEM/nutrient samples received at a pH of <2?
Yes ☐	No ☐	NA ☑	17. Were all cyanide and/or sulfide samples received at a pH >12?
Yes ☐	No ☐	NA ☑	18. Were all applicable NH3/TKN/cyanide/phenol/BNA/pest/PCB/herb (<0.2mg/L) and toxicity (<0.1mg/L) samples free of residual chlorine?
Yes ☐	No ☐	NA ☑	19. Were collection temperatures documented on the COC for NC samples?

Sample Preservation (Must be completed for any sample(s) incorrectly preserved or with headspace.)

Sample(s) ____ were received incorrectly preserved and were adjusted accordingly in sample receiving.

Sample(s) ____ were received with bubbles >6 mm in diameter.

Sample(s) ____ were received with TRC >0.2 mg/L for NH3/ TKN/cyanide/BNA/pest/PCB/herb.

Toxicity sample(s) ____ were received with TRC >0.1 mg/L and were analyzed by method 330.5.

Corrective Action taken, if necessary:

Was client notified: Yes ☐ No ☐ Did client respond: Yes ☐ No ☐

SESI employee: ____ Date of response: ____

Comments: ____