

**INTERIM PHASE II ENVIRONMENTAL SITE
ASSESSMENT REPORT
for
STAGE ONE PROPERTIES**

**NORTHWEST TRIANGLE INITIATIVE
City of York
York County, Pennsylvania**

December 2007

Prepared for:

**The City of York Redevelopment Authority
49 East Market Street
York, PA**

Prepared by:

**ARM Group Inc.
Hershey, Pennsylvania**

(ARM Project 07214)



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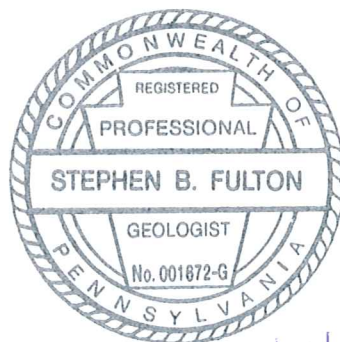
The City of York Redevelopment Authority
49 East Market Street
York, PA

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December 2007

ARM Project 07214



Respectfully submitted:

Stephen B. Fulton, P.G., P.E.
Vice President and Senior Geologist



TABLE OF CONTENTS

	<u>Page</u>
1.0 INTRODUCTION.....	1
1.1 Project Background.....	1
1.2 Geologic Setting.....	2
1.3 Previous Investigation Activities	2
2.0 SITE ASSESSMENT ACTIVITIES	4
2.1 Sampling Rationale and Methodology.....	4
2.2 Sampling Activities and Results	4
2.2.1 York Rail, Pullman Apartments, LLP; and Thomas Somerville Co. Properties	4
2.2.2 Keystone Color Works.....	5
2.2.3 Weaver's Auto Body, P&S Motors and Row Houses	6
2.2.4 B&C Fasteners Building	7
2.2.5 B&C Fasteners Underground Storage Tanks.....	8
3.0 RECOMMENDED SUPPLEMENTAL INVESTIGATION AND REMEDIAL ACTIVITIES	9
3.1 York Rail and Thomas Somerville Properties	9
3.2 Keystone Color Works.....	9
3.3 Weaver's Auto Body and Row Houses	10
3.4 B&C Fasteners	10
3.5 Stage Two Properties	11
3.6 Act 2 Final Report.....	11

LIST OF FIGURES

Figure 1	Site Layout	Following Text
Figure 2	Soil Sampling Summary for York Rail Property.....	Following Text
Figure 3	Soil Sampling Summary for Keystone Color Works.....	Following Text
Figure 4	Soil Sampling Summary for Weaver's Auto Body.....	Following Text
Figure 5	Soil Sampling Summary for B&C Fasteners	Following Text
Figure 6	B&C Fasteners UST Sample Location Map	Following Text

LIST OF TABLES

Table 1	Summary of Soil Sampling Results for York Rail Property.....	Following Text
Table 2	Summary of Soil Sampling Results for Keystone Color Works Property.....	Following Text
Table 3	Summary of Soil Sampling Results for Weaver's Auto Body Property.....	Following Text



Table 4	Summary of Soil Sampling Results for the B&C Fasteners Property.....	Following Text
Table 5	Summary of Soil Sampling Results for Underground Storage Tank Removal at the B&C Fasteners Property.....	Following Text

LIST OF APPENDICES

Appendix A	Hazardous Materials Survey Report.....	Following Text
Appendix B	Laboratory Analytical Results	Following Text
Appendix C	Weaver's Auto Body Soil Boring Logs	Following Text
Appendix D	B&C Fasteners UST Removal Photos	Following Text



1.0 INTRODUCTION

1.1 Project Background

This Interim Phase II Environmental Site Assessment (ESA) Report has been prepared by ARM Group Inc. (ARM) to summarize the environmental site characterization activities conducted to date for the Stage One Properties located within the Northwest Triangle region of the City of York, York County, Pennsylvania. This report has been prepared at the request of the City of York Redevelopment Authority (RDA), a non-profit organization that has purchased properties and is leading the initiative to remediate and redevelop properties within an approximately 14.5-acre portion of the City of York that is referred to as the Northwest Triangle (NWT). As shown on the attached Figure 1, the NWT is generally bounded to the north by Codorus Creek, to the east by North Beaver Street, and to the south by West Gay Avenue. The goal of the NWT Initiative is to revitalize and enhance this portion of the City of York through the demolition and/or remodeling of contaminated, abandoned and/or under-utilized properties, and the establishment of new residential and commercial facilities.

Many of the properties within the NWT have been the subject of preliminary environmental site investigations, and ARM was contracted by the RDA to perform additional site sampling and characterization of these properties to further support the identification and delineation of potential contamination, and to support the development and implementation of environmental remediation plans as part of the site redevelopment activities. ARM's work was conducted in accordance with the June 2007 Supplemental Phase II Environmental Site Assessment (ESA) Sampling and Analysis Plan (SAP) and Quality Assurance Project Plan (QAPP), which was reviewed and approved by the Pennsylvania Department of Environmental Protection (PADEP).

Based on site access and redevelopment considerations, the supplemental ESA activities have been separated into two stages. This report presents the current investigation results from the Stage One properties; the Stage Two properties will be further addressed following the receipt of the necessary access agreements and approvals.

The Stage One properties that are the subject of this report consist of the following:

1. York Rail; Pullman Apartments, LLP; and Thomas Somerville Co., North George Street, York, PA; 0.42 acres.
2. Keystone Color Works, 109-151 West Gay Street, York, PA; 0.73 acres.
3. Weaver's Auto Body, P&S Motors, and row houses, 200-236 North Beaver Street, York, PA; 1.18 acres.
4. B&C Fasteners, 146-150 North Beaver Street, York, PA; 0.47 acres.

Although potentially subject to change based on ongoing planning activities and negotiations, the anticipated Stage Two properties currently include the following:



1. Ohio Blenders (AlfaGreen Supreme), 260 North Beaver Street and 132-152 North Pershing Avenue, York, PA; 2.04 acres.
2. Space Leasing/Vacant Land, North Pershing Avenue and West Gay Street, York, PA; 1.03 acres.

1.2 Geologic Setting

The NWT site is underlain by the Conestoga Formation and the Pure Limestone Member of the Kinzers Formation. The Conestoga Formation consists of impure, gray limestone. Both units are susceptible to sinkholes and a highly irregular, pinnacled bedrock surface may occur below a deceptively smooth land surface.

The site is located within the Codorus Creek watershed, and the Creek is the receptor for local surface and groundwater. Groundwater and surface water at and in the vicinity of the site most likely flows to the north and northwest. Based on the elevations of the sites of concern relative to the Creek, groundwater is expected to be approximately 10 to 20 feet below the ground surface.

1.3 Previous Investigation Activities

Various phases of investigation have been conducted prior to ARM's most recent investigation activities, and these activities provided the basis for the work conducted by ARM. These previous investigation activities included the following:

- A preliminary Phase I Environmental Assessment Report that addressed all of the NWT properties of concern was completed by Edge Environmental, Inc. on June 1, 2004. This report identified historical site uses and potential environmental issues such as underground storage tanks (USTs), coal storage areas, lead-based paint, and waste oil. State and federal records were reviewed, a site reconnaissance was performed, and interviews were conducted with local officials, owners, and occupants regarding each site.
- A Revised Phase I Environmental Site Assessment of the properties of concern was completed by Pennoni Associates, Inc. on June 2, 2005. This report expanded on the Edge Environmental assessment report, and included Sanborn maps, historical aerial photographs, and an Environmental Data Resources (EDR) Report. Historical above-ground storage tanks (ASTs), two fire-proof doors, an average radon concentration determined from EPA publications, potential PCBs, PAHs, and metals associated with the railroad tracks were listed, and numerous mercury-containing thermostats were found.
- An Interim Site Characterization Report including the Keystone Color Works and Ohio Blenders properties was completed by GTS Technologies, Inc. on December 21, 2005. Six surface soil samples were collected along the western side of the Keystone Color Works building. Lead concentrations exceeding the PADEP Statewide Health Medium-



Specific Concentration (MSC) for lead were identified in four of the samples. Three geophysical surveys, including metal detection, terrain conductivity, and ground-penetrating radar, were performed on the Ohio Blenders property, and six potential USTs were identified. Potential-PCB containing transformers were also found on the Ohio Blenders property. Thirty six (36) surface soils samples were collected on the Ohio Blenders property, and antimony, arsenic, total chromium, lead and 1,2-diphenylhydrazine were detected in soils at concentrations that exceed the associated PADEP Statewide Health MSCs. An additional 12 surface soils samples were collected from the area where utility poles had been stored. The concentrations of creosote-related compounds in these soil samples did not exceed any PADEP MSCs. Three surface soil samples were collected from the area where transformers were located, and the concentrations of PCBs in these samples were below the applicable PADEP MSCs. Eight geoprobe borings were also completed across the site near the suspected UST systems, and soil samples collected from these borings were analyzed for leaded gasoline parameters. One sample indicated a concentration of lead in excess of the PADEP MSC, although all other results were below the applicable PADEP MSCs.

- A Site Characterization Report for Weaver's Auto Body was completed by Alliance Environmental Services, Inc. on June 14, 2006. A geophysical survey was completed at the property to identify the potential presence and location of any USTs, and one abandoned-in-place UST was identified. A total of 24 soil borings were then completed on site and 12 of the borings were sampled for volatile organic compounds (VOCs). Two samples were also submitted for semi-volatile organics (SVOC) analysis. While some VOCs were detected, the concentrations were below the respective PADEP MSCs.
- A Building Inspection Findings report for all of the Stage One properties was completed by ARM on September 21, 2007 as part of the current site assessment process. The building inspection activities included asbestos inspections of the site buildings, limited lead-based paint inspections, and limited hazardous materials inspections. A copy of the completed Building Inspection Findings report is presented in Appendix A of this Interim Phase II ESA Report.



2.0 SITE ASSESSMENT ACTIVITIES

2.1 Sampling Rationale and Methodology

Based on the results of the previous investigation activities, supplemental investigation activities were conducted by ARM to support the identification and delineation of contaminants of potential concern in soils at the site. In general, sampling locations and depths were biased towards locations of potential contamination identified from the previous investigation activities, and/or through supplemental field observations (e.g., staining, odors, proximity to potential discharge locations, and elevated VOC concentrations in air based on field-screening with a photo-ionization detector). In locations where contamination had already been identified at concentrations in excess of the PADEP Statewide Health MSCs (25 PA Code Chapter 250), additional sampling was conducted beyond these locations in an attempt to delineate the lateral and vertical extent of contamination.

All sampling and analysis was conducted in accordance with the PADEP-approved Supplemental Phase II ESA SAP and QAPP dated June 2007, as well as all applicable PADEP regulations and guidance for the collection and analysis of environmental samples (e.g., the PADEP's Act 2 Technical Guidance Manual). Specific protocols included the decontamination of non-disposable sampling equipment prior to sample collection, and the proper preservation and chain-of-custody handling of all samples selected for laboratory analysis. All samples were analyzed by Analytical Laboratory Services, Inc. (ALSI) of Middletown, Pennsylvania.

2.2 Sampling Activities and Results

Initial sampling of the Stage One properties was conducted in June and July 2007, with supplemental delineation sampling activities conducted in November 2007. The sampling activities included a geophysical survey to support the identification of potential USTs, the use of hand-held sampling equipment (e.g., hand-bucket auguer) to collect surface and shallow subsurface soil samples, and the use of Geoprobe direct-push equipment to facilitate the collection of deeper soil samples. In addition to the environmental sampling activities, two USTs were removed from the sidewalk in front of the B&C Fasteners property in October 2007.

The sampling activities and results are discussed in the following subsections. The sampling locations are shown on the figures that follow the text of this report, and the sampling results are summarized on the attached data summary tables. The laboratory data sheets from the analytical work are presented as Appendix B to this report.

2.2.1 York Rail, Pullman Apartments, LLP; and Thomas Somerville Co. Properties (Parcels 43-01, 43-02, 43-04, 43-05, and 127-01)

As generally depicted on the attached Figures 1 and 2, this area consists of one warehouse, one retail building, two paved parking lots, a gravel lot, and two sets of railroad tracks. One of the parking lots is on the eastern side of North George Street, with the rest of the area located on the west side of North George Street.



A total of 22 surface and shallow subsurface soil samples were collected across these properties using a hand auger or Geoprobe direct-push equipment. Per the approved SAP, twelve (12) samples were initially collected and submitted for analysis of Target Compound List (TCL) VOCs, TCL SVOCs, and Resource, Conservation, and Recovery Act (RCRA) metals. Additionally, one soil sample was analyzed for polychlorinated biphenyls (PCB) and another was analyzed for herbicides. Based on the results from these initial samples, ten (10) additional samples were collected and submitted for analysis of arsenic and chromium in an attempt to further delineate the horizontal and vertical extent of these constituents. The sample locations are shown on Figure 2, and the laboratory results are summarized on Table 1.

As shown on Table 1, the initial sampling and analysis activities indicated the presence of arsenic and chromium at concentrations in excess of the PADEP Residential and Non-Residential Direct Contact MSCs. Exceedances were detected at locations A2-SS1 (6"), A2-SS2 (6"), A2-SS3 (6") and A2-SS4 (6"). No VOCs, SVOCs, herbicides or PCBs were detected at concentrations in excess of any MSCs, and no MSC exceedances were detected in the Thomas Somerville parking lot located to the east of North George Street.

Based on the MSC exceedances detected in the initial samples, 10 additional samples were collected from locations around and below the locations with the initial exceedances (existing site features and conditions limited the additional delineation in some locations). Because the initial exceedances were only for arsenic and chromium, these supplemental samples were only analyzed for arsenic and chromium. As shown on Table 1, and summarized on Figure 2, arsenic and chromium concentrations exceeding the PADEP Residential Direct Contact MSC were encountered in supplemental sample locations 43-01-SS5 (6"), 43-01-SS6 (6"), 43-01-SS7 (6"), 43-01-SS8 (6"), 43-01-SS9 (16"), and 43-01-SS11 (18").

Although some MSC exceedances were detected in the supplemental delineation samples, the extent of arsenic and chromium contamination is considered to be largely delineated. Based on the nature of the materials encountered at the ground surface (largely gravels with coal ash and cinders), and the understanding that the contamination is largely associated with the surface fill materials and historic operations and activities directly on these materials, and the decrease in concentration with depth, the exceedances are generally limited to the upper 2 feet of soil and fill materials located along the railroad tracks at the locations indicated in bold in Figure 2. The extent of contamination beneath the existing buildings, if any, is unknown at this time.

2.2.2 Keystone Color Works (Parcel 46-09)

As generally depicted on the attached Figure 3, this parcel consists of the Keystone Color Works industrial building, with a small tract of gravel-covered soil along the western edge of the building. Railroad tracks mark the western property boundary.

Based on previous sampling conducted at this site, ARM collected ten (10) soil samples from the area along the western side of the Keystone Color Works building. These samples were collected from the surface or shallow subsurface using a decontaminated hand bucket-auger, and were submitted for analysis of lead. The sample locations and depths were selected to supplement the previous characterization and to support delineation of the elevated lead



concentrations previously detected. As summarized on Table 2 and Figure 3, five of the surface samples and one of the subsurface samples had concentrations of lead exceeding the PADEP Residential Direct Contact MSC and Soil-to-Groundwater MSC. Lead was detected at a concentration at or above the Non-Residential Direct Contact MSC at two locations.

Based on the initial sampling results, supplemental sampling was conducted to refine the vertical and lateral delineation of the lead exceedances. As summarized on Table 2 and Figure 3, eight (8) supplemental soil samples were collected, and lead was only detected in one location at a concentration greater than any of the applicable MSCs (a marginal exceedance of the Soil-to-groundwater MSC at location C-SS12[6"]).

Based on these results, the soil conditions, and the nature of the historic activities, the MSC exceedances for lead are generally limited to the upper 2 feet of soil and fill along the western side of the Keystone Color Works building.

2.2.3 Weaver's Auto Body, P&S Motors, and Row Houses (Parcels 46-01, 46-02, 46-03, and 46-05)

This area consists of the Weaver's Auto Body Shop, P&S Motors building, four row houses, and two gravel lots. Railroad tracks mark the northern property boundary. The Weaver's Auto Body Shop and P&S Motors buildings are depicted on Figure 4.

Based on the existing and historic site activities, and the previous detection of petroleum hydrocarbons in soils at the site, ARM completed 14 soil borings and collected 7 soil samples from the north and west sides of the P&S Motors building using Geoprobe direct-push sampling equipment. The borings were advanced to depths ranging from 4 to 12.5 feet below grade. The materials were continuously collected into an acetate sleeve (macro-core sampler), and logged by the attending ARM geologist. The soils were inspected for signs of potential contamination based on odors, staining, and/or elevated readings from a hand-held photoionization detector (PID). Selected samples were submitted to the laboratory for chemical analysis. The soil boring logs from this investigation are included as Appendix C.

In accordance with the approved SAP, 8 borings were initially completed, and 5 soil samples were selected for analysis. Three (3) of the samples from the outside soil borings were analyzed for TCL VOCs, TCL SVOCs, PCBs, and RCRA Metals. Of the 2 samples collected from inside the building by the hydraulic lift, one sample was analyzed for the PADEP Short List for Used Motor Oil and the other sample was analyzed for the PADEP Short List for Heavy Fuels and Lubrication Oil.

Based on the analytical results, and as summarized on Table 3 and Figure 4, benzene was the only constituent that was detected above its respective PADEP MSC. In particular, benzene was detected in sample location D-SB5 (7.5') at a concentration exceeding the PADEP Soil-to-Groundwater MSC, and also above the soil screening value for protection of residential indoor air.



Based on the sampling results from D-SB5 (7.5'), an additional series of 6 borings was conducted to better delineate the extent of benzene in subsurface soils. No signs of contamination were detected in any of these supplemental borings, except for elevated PID readings and petroleum odors at depth at boring WADB-5. Based on these readings, samples were collected from 2 different depths (7.5' and 11') at this boring and submitted for analysis of benzene and related VOCs. As shown on Table 3, benzene was detected at a concentration above the Soil-to-Groundwater MSC at the 7.5' depth (but at a concentration lower than at D-SB5[7.5']), but the concentration was below the MSC at the 11' depth.

As can be seen from Figure 4, the benzene contamination at this site is relatively limited, and has generally been delineated. More than 20 soil borings were completed in the area to the north and west of the P&S Motors building, yet contamination was only detected in two of the borings, and at concentrations only slightly above the MSC. Also, the contamination was generally limited to a relatively narrow depth interval, approximately the zone of saturated soils located immediately above the underlying bedrock (bedrock was encountered at a depth of approximately 12.5 feet below grade in this area). It is suspected that this contamination is related to a historic condition or closed UST, with some contaminant migration in the saturated zone to the locations where it was detected in the subsurface soils.

2.2.4 B&C Fasteners Building (Parcel 45-11)

As generally depicted on Figure 5, this area consists of the B&C Fasteners industrial building and a sidewalk.

A ground-penetrating radar (GPR) survey of the site was initially conducted to confirm the location of a suspected UST below the sidewalk in front of the B&C Fasteners building, and also to determine the potential presence of any USTs located below the concrete floor slab of the building. The GPR survey confirmed the location of a tank below the outside sidewalk, and also identified two anomalies beneath the floor of the building. One of the anomalies inside the building is a potential UST, while the other is believed to be a foundation structure. Refer to Figure 5 for the locations of the anomalies.

A total of 14 soil samples for B&C Fasteners were collected from beneath the building floor using Geoprobe direct-push equipment. Per the approved SAP, 10 borings were initially completed, and 10 soil samples were collected and analyzed for TCL VOCs, TCL SVOCs, and RCRA Metals. Based on the results from the initial samples (see Table 4 and Figure 5), arsenic concentrations exceeding the PADEP Residential Direct Contact MSC were encountered in sample locations E-SS5 (2.5'), E-SS8 (2.5'), E-SS8 (4'), E-SS9 (2.5'), and E-SS10 (2.5'). Further, lead concentrations exceeding the PADEP Non-Residential and Soil-to-Groundwater MSCs were encountered at sample location E-SS8 (2.5'). To further delineate the arsenic and lead exceedances, 4 additional soil samples were subsequently collected from a deeper interval below the initial exceedances, and these samples were analyzed for arsenic and lead.

Based on the results summarized on Table 4 and Figure 5, the lateral and vertical extent of the arsenic and lead contamination has been generally delineated, with the exceedances limited to



the fill materials and soils in the upper 3 feet (approximately) below the floor slab in the locations where exceedances were detected.

2.2.5 B&C Fasteners Underground Storage Tanks

Two heating oil USTs were removed from beneath the sidewalk on the east side of the B&C Fasteners building on October 18, 2007. The tanks had estimated capacities of approximately 400 gallons and 500 gallons, and were located between North Beaver Street and the storefront of the building. The tank lines fed directly into the boiler room in the basement of the building, and are believed to have been used to supply heating oil to the building. Only one tank was initially suspected to be present, but the second tank was encountered adjacent to the first tank during the tank removal activities. The former UST locations are shown on Figures 5 and 6, and photographs of the tank removal activities are provided in Appendix D.

Environmental Waste Minimization Inc. (EWMI) from Northampton, PA, performed the UST removal activities under ARM supervision. Some slight odors were noted in the soils located immediately below the USTs, and this soil was removed and stockpiled inside the building on plastic sheeting. ARM then collected one soil sample from beneath each tank near the fill pipe, and one soil sample from beneath the feed line going from Tank 1 into the building. The feed line from Tank 2 was located above the tank, which directly abutted the foundation wall, and therefore an additional feed line sample was not collected. The tank excavations were backfilled with clean fill, and the sidewalk was restored.

The soil sample locations are shown on Figure 6, and the analytical results are summarized on Table 5. As can be seen from the analytical results, no constituents of concern were detected in any of the post-excavation soil samples.

The stockpiled soil was also sampled and analyzed for diesel range organics, gasoline range organics, Toxicity Characteristic Leaching Procedure (TCLP) VOCs, total VOCs, PCBs, Moisture, Total Solids, TCLP metals, and TCLP leachate. Analytical results for the stockpiled soil were below PADEP MSCs for all parameters.

The tank contents (less than 1" of fluid in the tank bottoms, or less than 20 gallons total) were removed and sampled for TCLP VOCs, VOCs, Moisture, and Total Solids for classification and disposal purposes. Low concentrations of acetone, ethylbenzene, toluene, and xylenes were detected in the sample. It is believed the tanks held heating oil, and had been cleaned out using a cleaning agent that included acetone.

As a result of these findings, no additional investigation or remedial actions are warranted for the USTs. Additional documentation of the UST recycling and soil disposal activities will be provided to the PADEP when available.



3.0 RECOMMENDED SUPPLEMENTAL INVESTIGATION AND REMEDIATION ACTIVITIES

Based on the results of the site assessment activities, additional investigation and remediation activities are recommended to address the contamination that has been detected at concentrations above the PADEP Statewide Health MSCs. These activities are recommended so as to adequately protect human health and the environment for the proposed future site uses (which includes potential residential use on all properties west of North Beaver Street), and to obtain a release of liability from the PADEP under the provisions of the Land Recycling and Environmental Remediation Standards Act (Act 2). This section presents the recommended activities for each of the Stage One properties. It is possible that additional or alternate actions may be determined to be appropriate at a later date based on differing site conditions, alternate land reuse plans, and/or the inclusion of additional properties for redevelopment. It should be noted that information and recommendations for the pre-demolition removal of asbestos and other hazardous substances and materials from the Stage One properties is discussed in Appendix A.

Overall, it is recommended that all activities be conducted in accordance with the applicable Act 2 and Chapter 250 standards and guidance for site remediation, with particular consideration to the requirements for demonstration of attainment of the selected environmental standard (i.e., the Residential Statewide Health Standard). To the extent applicable, all soil reuse activities should be conducted in accordance with the PADEP's Management of Fill Policy and Residual Waste Regulations.

3.1 York Rail and Thomas Somerville Properties

Based on the sampling results and the anticipated site redevelopment plans, it is recommended that soils be excavated from the upper 2 feet (approximately) in the areas where arsenic and chromium were detected at concentrations above the Residential MSCs. Because of the existing logistical constraints, it is recommended that any additional delineation be completed following the anticipated demolition activities, and concurrently with the proposed soil excavation and post-excavation sampling activities. Post-excavation soil sampling should use biased and systematic random sampling approaches as applicable for the site conditions and attainment demonstration requirements. Sampling of soils below the existing floor slab should also be conducted for arsenic and chromium to the extent practical and warranted. Removed soils should be sent for off-site disposal, or reused on a different property where the concentrations of arsenic and chromium do not present an unacceptable threat to human health or the environment. Excavated areas should be backfilled with clean fill.

3.2 Keystone Color Works

Based on the sampling results, shallow soils should be excavated from along the western side of the Keystone Color Works building, to a depth of up to approximately 2 feet in the areas where MSC exceedances were detected. Following soil excavation, post-excavation confirmatory soil sampling should be conducted for lead, and any additional soils that exceed an MSC should be



removed. All removed soils should be properly reused or disposed of at an off-site location, and the excavated areas should be backfilled with clean fill.

Because samples demonstrated lead concentrations in excess of the Soil-to-Groundwater MSC for lead, it is recommended that one shallow groundwater monitoring well be installed near the center of the northwestern property boundary. This well will provide for the assessment of groundwater quality at this location, and will support the groundwater investigation scheduled to be conducted at the Ohio Blenders property to the north. Sampling of groundwater at this location should include dissolved RCRA Metals.

Depending on future site development and demolition plans, supplemental sampling may be warranted for the soils located below the floor slab of the Keystone Color Works building (e.g., along the drain line to the city sewer), and also below the concrete slab (parking area) located to the east of the building. These soils should be sampled for RCRA Metals, and also for VOCs and SVOCs if staining, odors and/or elevated PID readings are detected. If any contamination is detected, additional remedial actions may be warranted.

3.3 Weaver's Auto Body and Row Houses

Based on the sampling results, subsurface soils should be excavated from areas to the northwest of the P&S Motors building where MSC exceedances were detected. Following soil excavation, post-excavation confirmatory soil sampling should be conducted for benzene, and any additional soils that exceed the Residential Statewide Health MSCs should be removed. All removed soils should be sent to an off-site location for proper disposal or treatment/recycling, and the excavated areas should be backfilled with clean fill.

Because soils samples demonstrated benzene concentrations in excess of the Soil-to-Groundwater MSC, it is recommended that one shallow groundwater monitoring well be installed near the center of the northwestern property boundary. This well will provide for the assessment of groundwater quality at this location, and will support the groundwater investigation scheduled to be conducted at the Ohio Blenders property to the north. Sampling of groundwater at this location should include gasoline and diesel fuel constituents.

3.4 B&C Fasteners

Based on the sampling results, shallow soils should be excavated from below the floor slab of the building, generally to a depth of approximately 3 feet where MSC exceedances were detected. These activities should be conducted following demolition of the structure, and removal of the floor slab. Following soil excavation, post-excavation confirmatory soil sampling should be conducted for lead and arsenic, and any additional soils that exceed an MSC should be removed. In addition, any suspected UST locations should be examined, and any confirmed USTs should be properly removed and closed. All removed soils should be properly reused or disposed of at an off-site location, and the excavated areas should be backfilled with clean fill.



3.5 Stage Two Properties (Ohio Blenders and Vacant Land/Space Leasing Lot)

Supplemental investigation of the Stage Two properties should be conducted in accordance with the PADEP-approved SAP and QAPP when possible. Any remediation activities should be designed based on the results of the site characterization activities and the proposed site reuse plans.

3.6 Act 2 Final Report

Following completion of the remedial activities, including attainment demonstration sampling, a Final Report should be compiled and submitted to the PADEP to demonstrate attainment of the Residential Statewide Health Standard for all constituents and media with MSC exceedances. A Notice of Intent to Remediate (NIR) should be submitted to the PADEP prior to submittal of the Final Report, and the Final Report and associated public notices should be completed in accordance with the applicable PADEP Chapter 250 and Act 2 requirements. Upon PADEP approval of the Final Report, environmental cleanup liability protection will be granted to the RDA and/or other property owner(s).



FIGURES

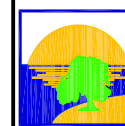
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LEGEND

--- Property Boundary

46-05 - Parcel Number



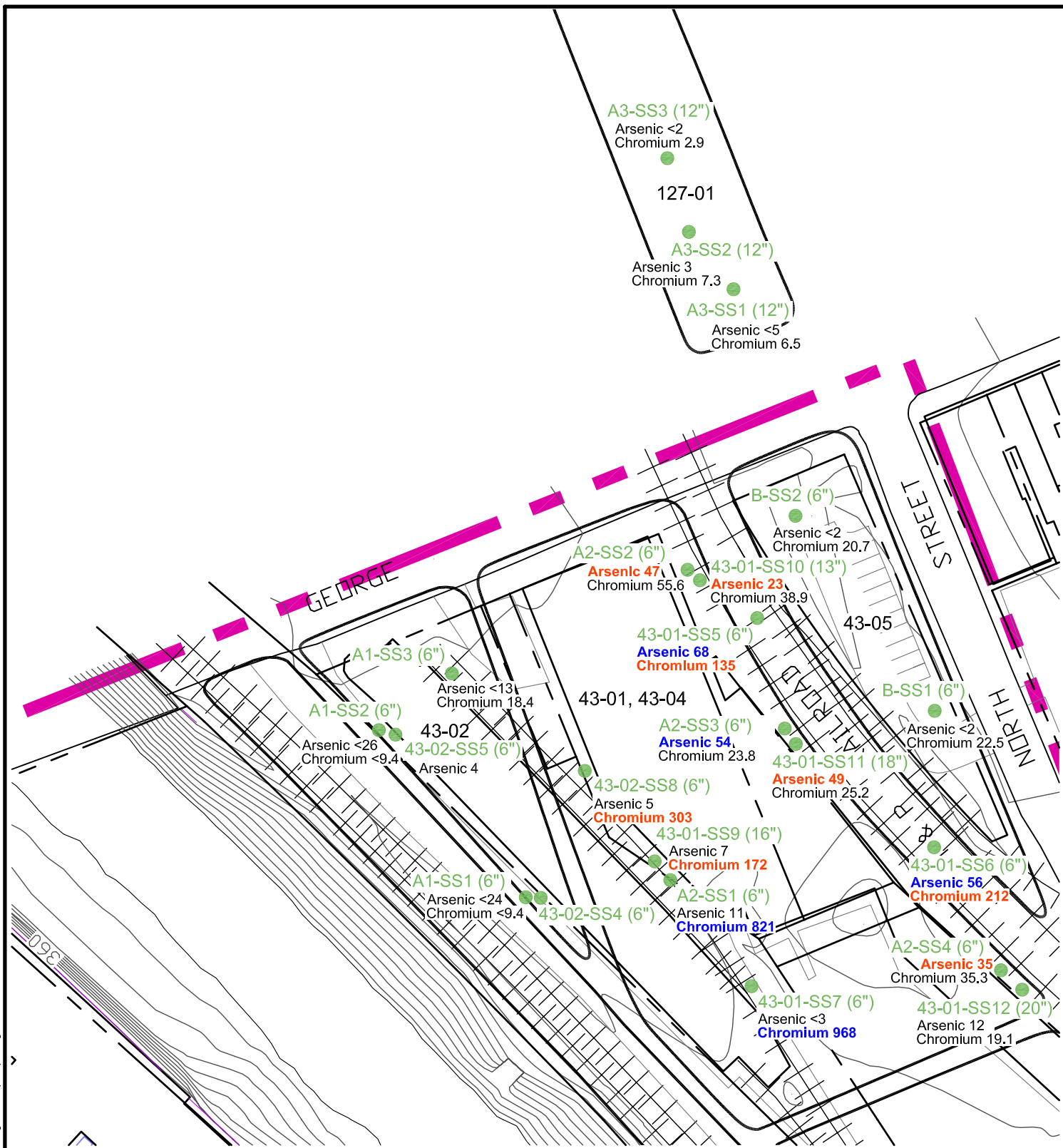
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Site Layout
Northwest Triangle Initiative
City of York
York County, PA

December 2007
1" = 200'
07214

Figure
1

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LEGEND



A1-SS1



– Surface Soil Sampling Location

Arsenic <26 – Result in Milligrams per Kilogram (mg/Kg)

Arsenic 47 – Exceeds Residential Direct Contact Standard

Chromium 821 – Exceeds Non-Residential Direct Contact Standard



SCALE IN FEET

Soil Sampling Summary For York Rail Property

Northwest Triangle Initiative
City of York, PA

December 2007

Scale: 1" = 100'

07214



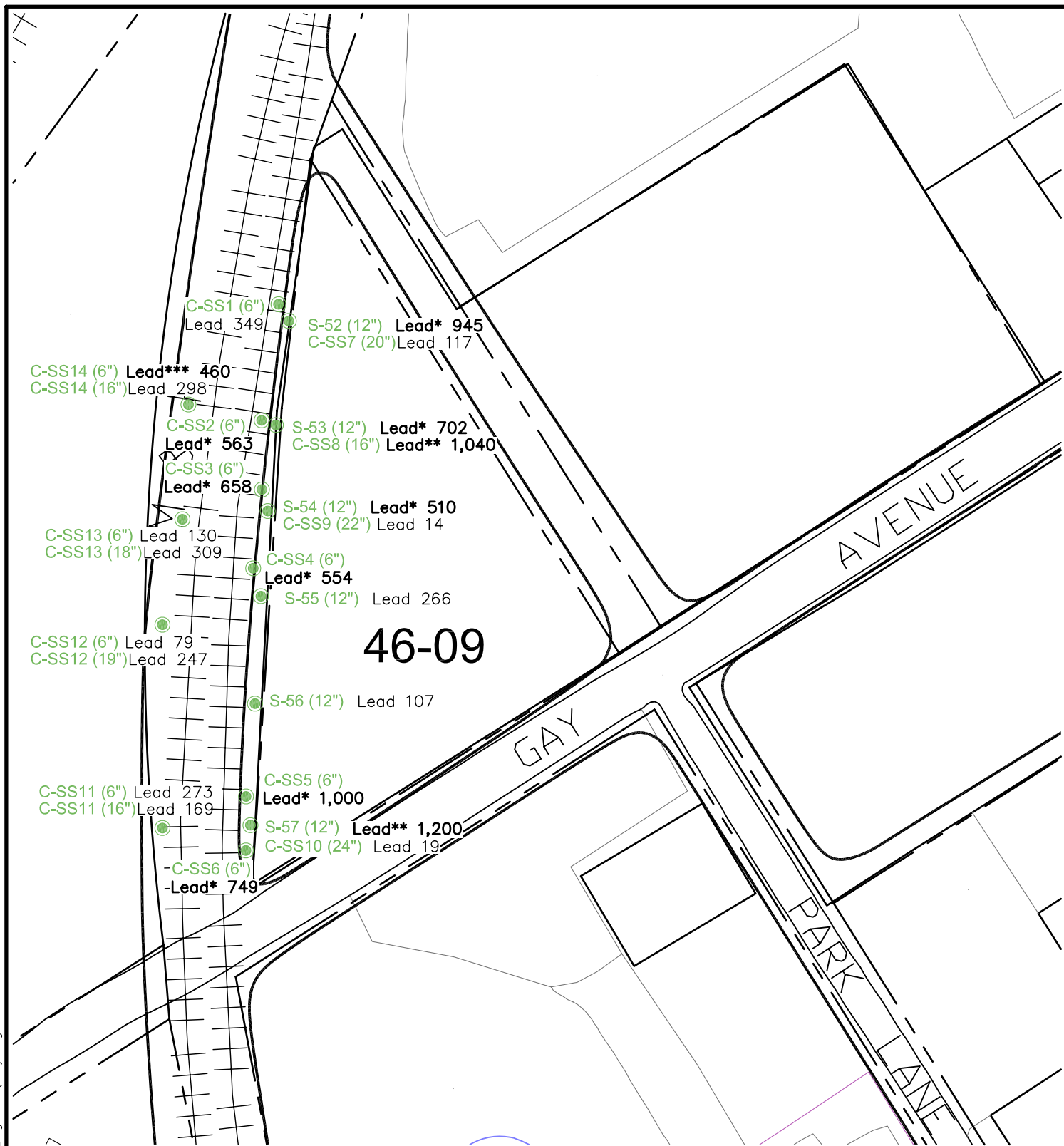
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Figure

2

T:\07214 NWT Act 2 Project\Drawg\07214_Figure3 (rev).dwg



LEGEND

● C-SS1 (6") - Sample Location

Lead 107 - Result in Milligrams per Kilogram (mg/Kg)

Lead* - Result exceeds Residential Direct Contact and Soil to Groundwater Standard

Lead** - Result exceeds Non-Residential Direct Contact and Soil to Groundwater Standard

Lead*** - Result exceeds Soil to Groundwater Standard

0 50 100 150

SCALE IN FEET



Soil Sampling Summary For Keystone Color Works

Northwest Triangle Initiative
City of York, PA

December 2007

Scale: 1" = 50'

07214

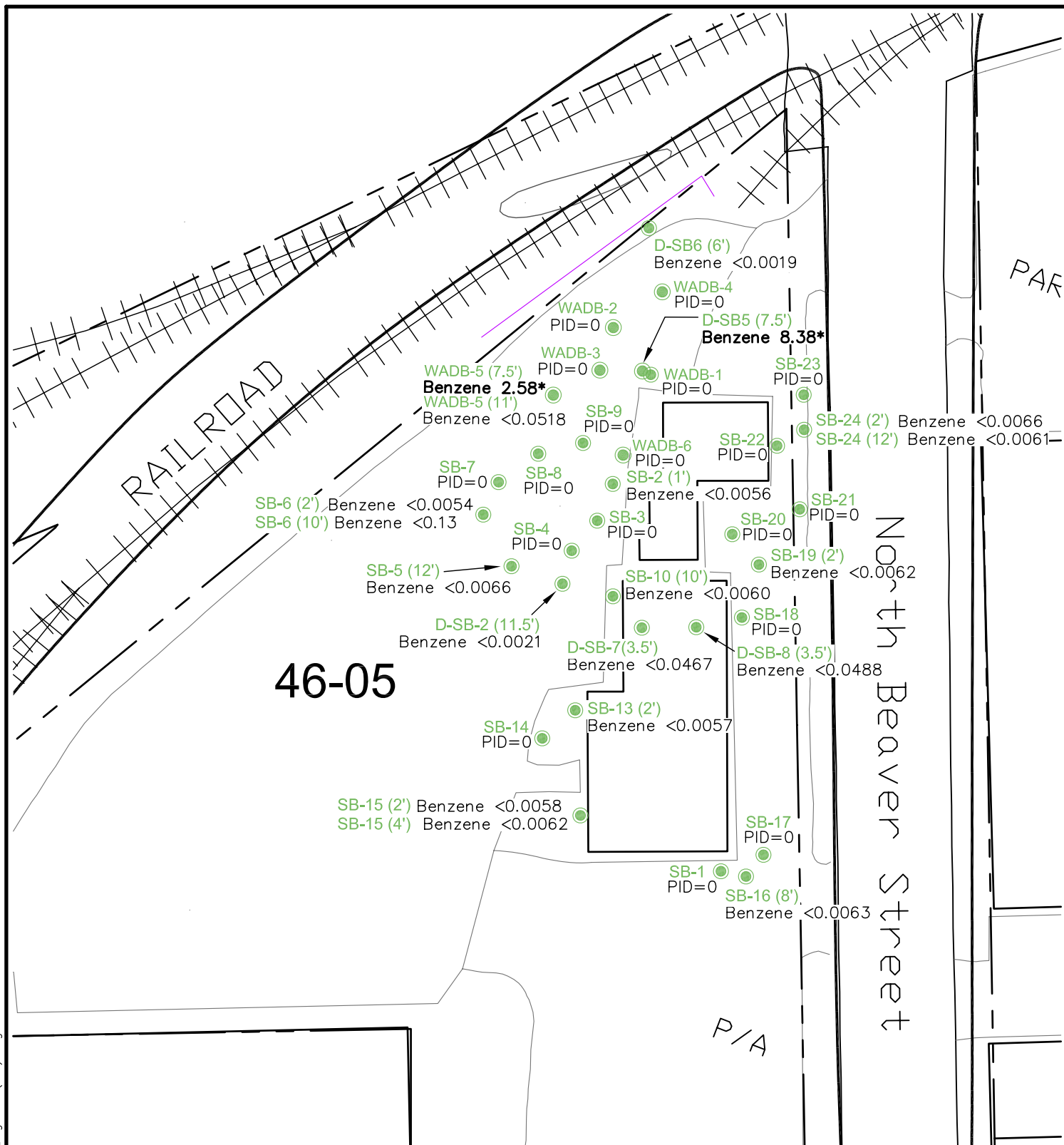


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Figure

3



LEGEND

● D-SS5 (7.5') – Sample Location

Benzene <0.0019 – Result in Milligrams per Kilogram (mg/Kg)

Benzene* – Result exceeds Soil to Groundwater Standards

PID=0 Photo-ionization detector result in parts per million



Soil Sampling Summary For Weavers Auto Body

Northwest Triangle Initiative
City of York, PA

December 2007

Scale: 1" = 50'

07214



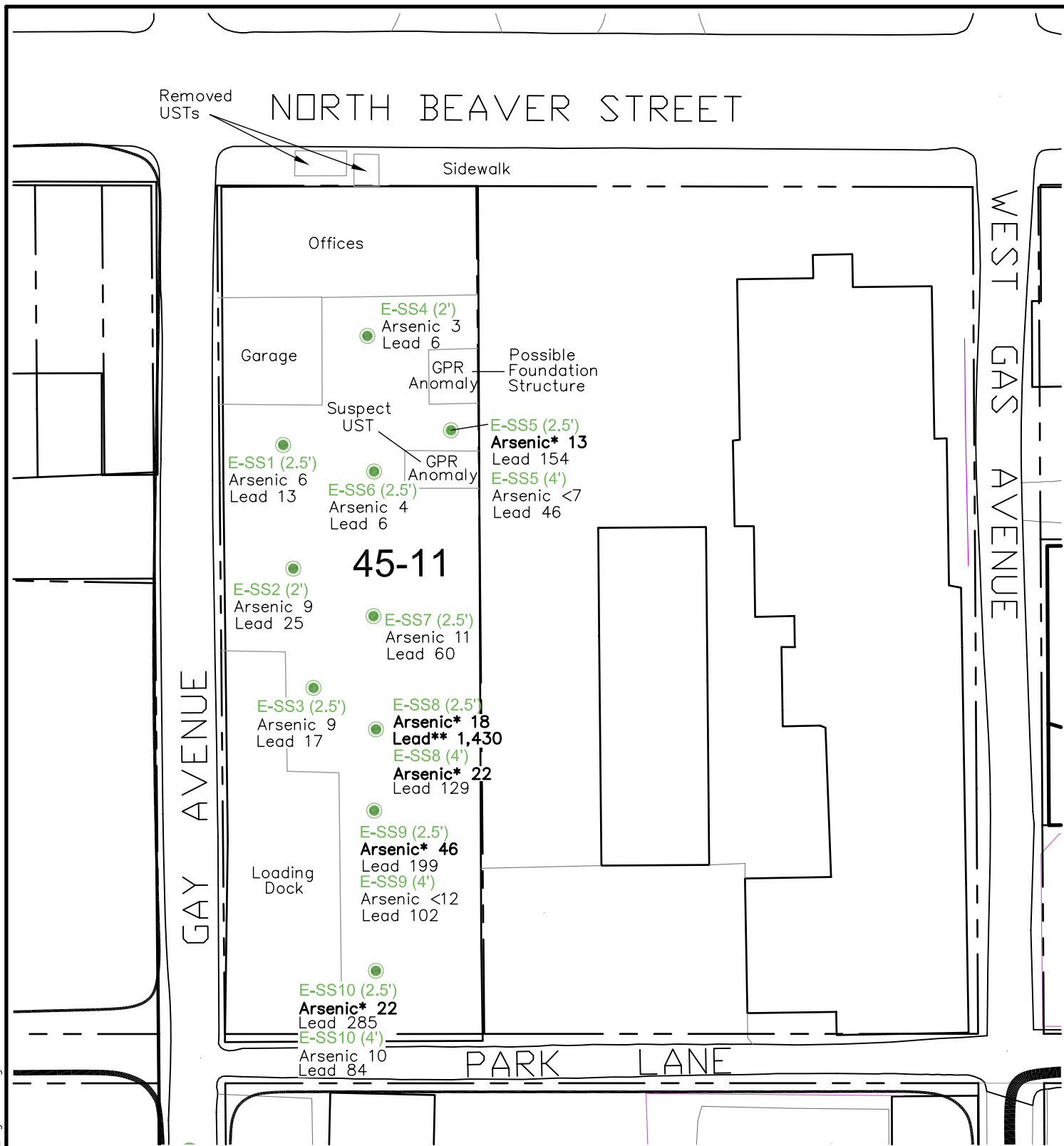
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Figure

4

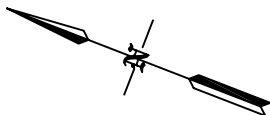
T:\07214 NWT Act 2 Project\Drawg\07214_Figure5.dwg



LEGEND

● E-SS1 (2.5') - Sample Location

Arsenic - Result in Milligrams per Kilogram (mg/Kg)
Arsenic* - Result exceeds Residential Direct Contact Standard
Lead** - Result exceeds Residential Direct Contact and Soil to Groundwater Standard



Soil Sampling Summary For B&C Fasteners

Northwest Triangle Initiative
City of York, PA

November 2007

Scale: 1" = 50'

07214



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Figure

5

North Beaver Street

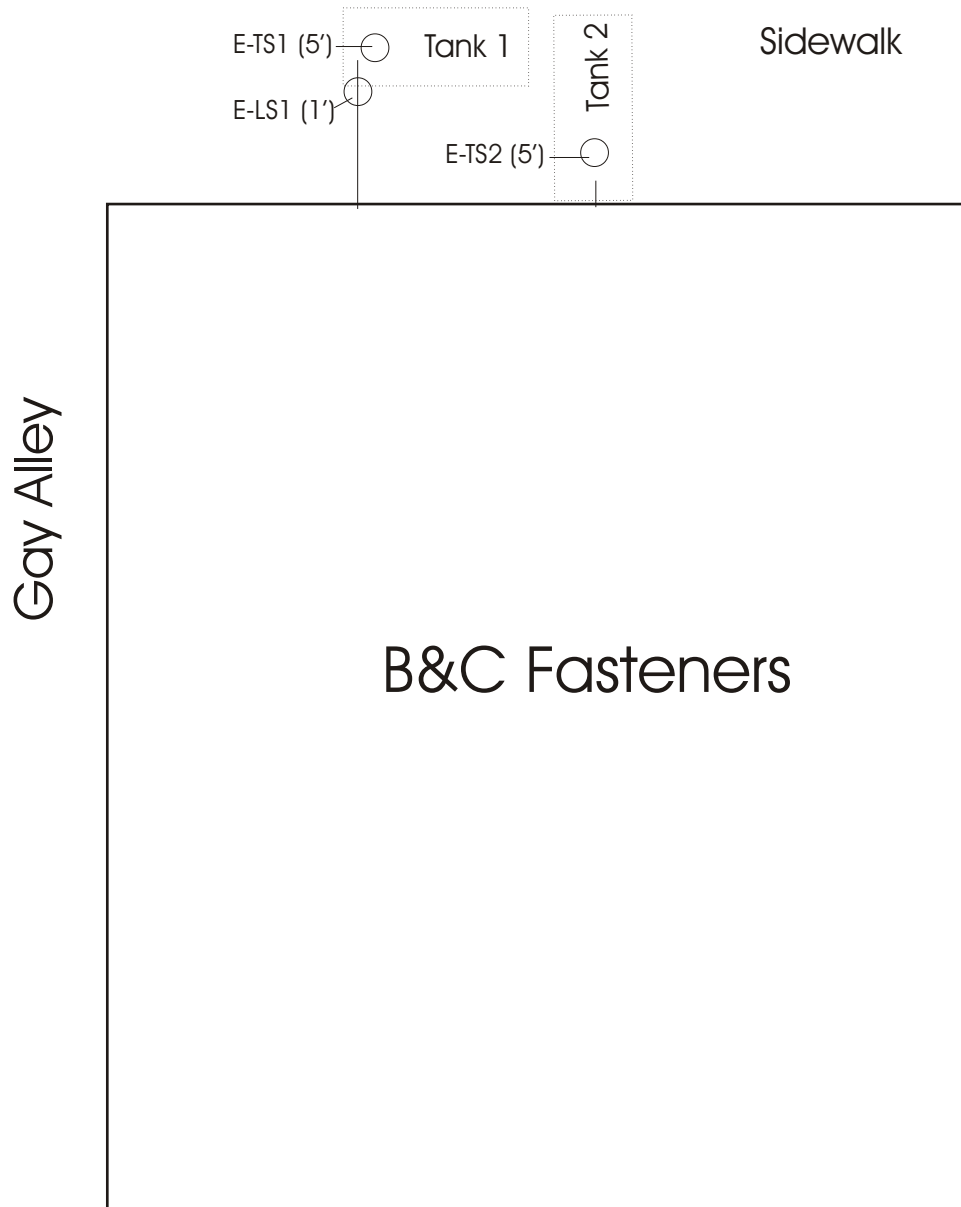
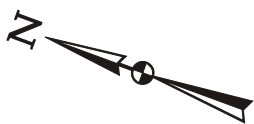


Figure 6



B&C Fasteners
150 North Beaver St
York, PA

**B&C Fasteners UST
Sample Location Map**

**Northwest Triangle
York City, York Co., PA**

November, 2007

07214



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TABLES

Table 1
Summary of Soil Sample Results for the York Rail Property
Northwest Triangle Initiative
City of York, York County, Pennsylvania

Soil Volatile/Semi-Volatile/PCBs/Herbicides Analytical Results
Sample Date July 17-20, 2007

Parameter	Residential Direct Contact MSC (0-15')	Non-Residential Direct Contact MSC (0-2')	Soil to Groundwater MSC	A1-SS1 (6")	A1-SS2 (6")	A1-SS3 (6")	A2-SS1 (6")	A2-SS2 (6")	A2-SS3 (6")	A2-SS4 (6")	A3-SS1 (1.0')	A3-SS2 (1.0')	A3-SS3 (1.0')	B-SS1 (6")	B-SS2 (6")
Acetone	10,000	10,000	41	<0.0234	0.033	<0.0298	0.0206	0.253	0.909	0.640	<0.0264	<0.021	<0.0262	1.140	0.188
Benzene	41	210	0.5	<0.0019	<0.0016	<0.0024	<0.0016	<0.0025	<0.0026	0.0028	<0.0021	<0.0016	<0.0021	<0.0536	<0.0022
2-Butanone	10,000	10,000	580	<0.0094	0.0125	<0.0119	<0.0082	<0.0123	<0.0131	<0.00137	<0.0105	<0.0080	<0.0105	0.0209	0.0196
Carbon Disulfide	10,000	10,000	160	<0.0019	<0.0016	0.0042	<0.0016	<0.0025	<0.0026	<0.0027	<0.0021	<0.0016	<0.0021	<0.0019	<0.0022
Ethylbenzene	10,000	10,000	70	<0.0019	<0.0016	<0.0024	<0.0016	<0.0025	<0.0026	<0.0027	<0.0021	<0.0016	<0.0021	0.0025	<0.0022
Toluene	7,600	10,000	100	<0.0019	0.0154	<0.0024	<0.0016	<0.0025	<0.0026	0.0028	<0.0021	<0.0016	<0.0021	<0.0019	<0.0022
Total Xylenes	8,000	10,000	1,000	<0.0056	<0.0049	<0.0072	<0.0049	<0.0074	<0.0079	0.0084	<0.0063	<0.0048	<0.0063	0.0141	<0.0066
o-Xylene	-	-	-	<0.0019	<0.0016	<0.0024	<0.0016	<0.0025	<0.0026	<0.0027	<0.0021	<0.0016	<0.0021	0.0030	<0.0022
mp-Xylene	-	-	-	<0.0038	<0.0033	<0.0048	<0.0033	<0.0049	0.0065	0.0068	<0.0042	<0.0032	<0.0042	0.0111	<0.0044
Acenaphthene	13,000	170,000	2,700	<0.143	<0.071	<0.076	<0.293	<0.151	<0.075	<0.306	<0.074	0.228	0.140	<0.072	<0.074
Acenaphthylene	13,000	170,000	2,500	0.315	0.071	<0.076	1.280	0.378	0.309	1.180	0.075	0.251	0.136	<0.072	<0.074
Anthracene	66,000	190,000	350	<0.143	<0.071	<0.076	0.524	0.221	0.149	1.010	0.153	0.772	0.441	<0.072	<0.074
Benzo(a)anthracene	25	110	79	0.528	0.142	0.114	2.830	0.554	0.670	3.930	0.654	2.470	1.390	<0.072	<0.074
Benzo(a)pyrene	2.5	11	46	0.893	0.236	0.163	2.930	0.787	0.925	5.080	0.620	2.650	1.460	<0.072	<0.074
Benzo(b)fluoranthene	250	1,100	120	0.766	0.241	0.246	3.110	1.130	1.170	5.900	0.826	3.060	1.990	<0.072	<0.074
Benzo(g,h,i)perylene	13,000	170,000	180	0.609	0.077	0.095	1.960	0.593	0.143	3.220	<0.074	0.309	0.118	<0.072	<0.074
Benzo(k)fluoranthene	250	1,100	610	0.806	0.285	0.252	3.460	0.829	1.170	4.730	0.918	2.960	1.910	<0.072	<0.074
Chrysene	2,500	11,000	230	0.647	0.210	0.196	2.940	0.876	0.998	4.870	0.720	2.780	1.580	<0.072	<0.074
Dibenzo(a,h)anthracene	2.5	11	41	0.190	<0.071	<0.076	0.651	0.240	0.096	1.420	<0.074	0.272	0.100	<0.072	<0.074
bis(2-Ethylhexyl)phthalate	1,300	5,700	130	<0.205	<0.101	<0.108	<0.418	0.639	<0.107	<0.437	<0.105	<0.202	<0.101	<0.103	<0.105
Fluoranthene	8,800	110,000	3,200	0.709	0.253	0.155	4.240	0.901	1.240	6.620	1.590	4.660	3.260	<0.072	<0.074
Fluorene	8,800	110,000	3,000	<0.143	<0.071	<0.076	<0.293	<0.151	<0.075	<0.306	<0.074	0.247	0.135	<0.072	<0.074
Indeno(1,2,3-cd)pyrene	25	110	7,000	0.668	0.108	0.128	2.300	0.651	0.277	3.920	0.093	0.579	0.223	<0.072	<0.074
2-Methylnaphthalene	4,400	10,000	8,000	<0.143	<0.071	<0.076	<0.293	0.179	<0.075	<0.306	<0.074	<0.141	<0.071	<0.072	<0.074
Phenanthrene	66,000	190,000	2,200	0.173	0.085	<0.076	0.371	0.452	0.470	2.580	0.819	3.380	2.160	<0.072	<0.074
Pyrene	6,600	84,000	2,200	0.810	0.254	0.152	4.130	0.826	1.040	5.590	1.260	4.090	2.670	<0.072	<0.074
Aroclor-1260	30	130	500	<0.034	<0.034	<0.036	<0.035	0.086	0.039	0.217	<0.036	<0.032	<0.034	<0.034	<0.035
2,4-DB	-	-	-	NA	NA	<0.016	NA	0.030	NA	NA	NA	NA	NA	NA	NA

Notes:

All results in milligrams per kilogram (mg/kg)

Sample depths are shown in parenthesis as part of the sample name

MSC = PADEP Statewide Health Medium Specific Concentration (blank space indicates that no MSC has been established for that parameter)

NA = Not Analyzed

Table 1 (cont.)
Summary of Soil Sample Results for the York Rail Property
Northwest Triangle Initiative
City of York, York County, Pennsylvania

Soil Total Metals Analytical Results
Sample Date July 17-20, 2007

Parameter	Residential Direct Contact MSC (0-15')	Non-Residential Direct Contact MSC (0-2')	Soil to Groundwater MSC	A1-SS1 (6")	A1-SS2 (6")	A1-SS3 (6")	A2-SS1 (6")	A2-SS2 (6")	A2-SS3 (6")	A2-SS4 (6")	A3-SS1 (1.0')	A3-SS2 (1.0')	A3-SS3 (1.0')	B-SS1 (6")	B-SS2 (6")
Arsenic	12	53	150	<24	<26	<13	11	47	54	35	<5	3	<2	<2	<2
Barium	15,000	190,000	8,200	12	39	1,110	543	144	110	106	58	33	19	76	56
Cadmium	47	210	38	<4.7	<5.1	1.1	4.4	2.2	1.2	2.1	0.9	<0.3	<0.4	0.8	0.9
Chromium	94	420	8,200	<9.4	<10.3	18.4	821	55.6	23.8	35.3	6.5	7.3	2.9	22.5	20.7
Lead	500	1,000	450	55	42	<1	122	362	164	266	14	34	15	9	10
Mercury	66	840	10	<0.19	<0.19	<0.20	<0.19	<0.20	0.24	<0.19	<0.18	<0.19	<0.18	0.18	<0.19

Soil Arsenic and Chromium Analytical Results
Sample Date November 2, 2007

Parameter	Residential Direct Contact MSC (0-15')	Non-Residential Direct Contact MSC (0-2')	Soil to Groundwater MSC	43-02-SS4 (6")	43-02-SS5 (6")	43-01-SS5 (6")	43-01-SS6 (6")	43-01-SS7 (6")	43-01-SS8 (6")	43-01-SS9 (16")	43-01-SS10 (13")	43-01-SS11 (18")	43-01-SS12 (20")
Arsenic	12	53	150	4	3	68	56	<3	5	7	23	49	12
Chromium	94	420	8,200	NA	NA	135	212	968	303	172	38.9	25.2	19.1

Notes:

All results in milligrams per kilogram (mg/kg)

Sample depths are shown in parenthesis as part of the sample name

MSC = PADEP Statewide Health Medium Specific Concentration

821 Result exceeds PADEP MSC

NA = Not Analyzed

Table 2
Summary of Soil Sample Results for the Keystone Color Works Property
Northwest Triangle Initiative
City of York, York County, Pennsylvania

Soil Lead Analytical Results
Sample Date July 18, 2007

Parameter	Residential Direct Contact MSC (0-15')	Non-Residential Direct Contact MSC (0-2')	Soil to Groundwater MSC	C-SS1 (6")	C-SS2 (6")	C-SS3 (6")	C-SS4 (6")	C-SS5 (6")	C-SS6 (6")	C-SS7 (20")	C-SS8 (16")	C-SS9 (22")	C-SS10 (24")
Lead	500	1,000	450	349	563	658	554	1,000	749	17	1,040	14	19

Soil Lead Analytical Results
Sample Date November 1, 2007

Parameter	Residential Direct Contact MSC (0-15')	Non-Residential Direct Contact MSC (0-2')	Soil to Groundwater MSC	C-SS11 (6")	C-SS11 (16")	C-SS12 (6")	C-SS12 (19")	C-SS13 (6")	C-SS13 (18")	C-SS14 (6")	C-SS14 (16")
Lead	500	1,000	450	273	169	79	247	130	309	460	295

Notes:

All results in milligrams per kilogram (mg/kg)

Sample depths are shown in parenthesis as part of the sample name

MSC = PADEP Statewide Health Medium Specific Concentration

1,000 Result exceeds PADEP MSC

Table 3
Summary of Soil Sample Results for the Weaver's Auto Body Property
Northwest Triangle Initiative
City of York, York County, Pennsylvania

Soil Volatile/Semi-Volatile/PCBs Analytical Results
Sample Date July 19-20 and November 1, 2007

Parameter	Residential Direct Contact MSC (0-15')	Non-Residential Direct Contact MSC (2-15')	Unsaturated Soil to Groundwater MSC	Saturated Soil to Groundwater MSC	D-SB2 (11.5')	D-SB5 (7.5')	D-SB6 (6')	D-SB7 (3.5')	D-SB8 (3.5')	WADB-5 (7.5')	WADB-5 (11')
Acetone	10,000	10,000	370	370	0.0450	<0.522	0.0339	NA	NA	<0.488	<0.518
Benzene*	41	210	0.5	0.5	<0.0021	8.380	<0.0019	<0.0467	<0.0488	2.580	<0.0518
n-Butylbenzene	8,800	10,000	950	950	NA	NA	NA	NA	NA	0.526	<0.0518
sec-Butylbenzene	8,800	10,000	350	350	NA	NA	NA	NA	NA	0.443	0.185
Cumene	7,300	10,000	780	780	NA	NA	NA	NA	NA	0.0690	<0.0518
Cyclohexane	-	-	-	-	NA	NA	NA	NA	NA	0.0748	<0.0518
Ethylbenzene	10,000	10,000	70	70	<0.0021	3.860	<0.0019	<0.0467	NA	0.655	<0.0518
Hexane	3,800	10,000	500	500	NA	NA	NA	NA	NA	0.607	<0.0518
Methylene Chloride	680	4,000	0.076	0.076	0.0028	<0.0522	<0.0019	NA	NA	<0.0488	<0.0518
Methyl cyclohexane	-	-	-	-	NA	NA	NA	NA	NA	0.418	<0.0518
Octane	-	-	-	-	NA	NA	NA	NA	NA	0.393	<0.155
Pentane	-	-	-	-	NA	NA	NA	NA	NA	0.585	<0.104
n-Propylbenzene	8,800	10,000	290	290	NA	NA	NA	NA	NA	0.212	<0.0518
Toluene	7,600	10,000	100	100	<0.0021	8.110	<0.0019	<0.0467	NA	1.980	<0.0518
1,2,4-Trimethylbenzene	110	360	9	9	NA	NA	NA	NA	NA	0.642	<0.0518
1,3,5-Trimethylbenzene	110	360	2.8	2.8	NA	NA	NA	NA	NA	0.106	<0.0518
Total Xylenes	8,000	10,000	1,000	1,000	<0.0063	9.670	<0.0056	NA	NA	1.470	<0.155
o-Xylene	-	-	-	-	<0.0021	1.750	<0.0019	NA	NA	0.245	<0.0518
mp-Xylene	-	-	-	-	<0.0042	7.920	<0.0037	NA	NA	1.220	<0.0518
Acenaphthene	13,000	170,000	2,700	2,700	<0.093	0.347	<0.086	NA	NA	NA	NA
Acenaphthylene	13,000	170,000	2,500	250	<0.093	0.104	<0.086	NA	NA	NA	NA
Anthracene	66,000	190,000	350	35	<0.093	0.174	<0.086	NA	<0.0594	NA	NA
Chrysene	2,500	11,000	230	23	<0.093	<0.083	<0.086	<0.557	0.0723	NA	NA
Dibenzofuran	-	-	-	-	<0.132	0.227	<0.123	NA	NA	NA	NA
Fluorene	8,800	110,000	3,000	300	<0.093	0.627	<0.086	NA	<0.0594	NA	NA
2-Methylnaphthalene	4,400	10,000	73	7.3	<0.093	8.280	<0.086	NA	NA	NA	NA
Naphthalene	4,400	190,000	25	10	<0.093	0.512	<0.086	0.169	<0.0975	NA	NA
N-Nitrosodiphenylamine	3,700	190,000	83	2	<0.093	0.670	<0.123	NA	NA	NA	NA
Phenanthrene	66,000	190,000	2,200	220	<0.093	2.080	<0.086	NA	0.238	NA	NA
Pyrene	6,600	84,000	2,200	220	<0.093	0.195	<0.086	NA	0.106	NA	NA

Notes:

All results in milligrams per kilogram (mg/kg)

Sample depths are shown in parenthesis as part of the sample name

MSC = PADEP Statewide Health Medium Specific Concentration (blank space indicates that no MSC has been established for that parameter)

8.38 Result exceeds PADEP MSC

NA = Not Analyzed

* Note: The PADEP's soil screening value for protection of residential indoor air is 0.37 mg/kg for benzene.

Table 3 (cont.)
Summary of Soil Sample Results for the Weaver's Auto Body Property
Northwest Triangle Initiative
City of York, York County, Pennsylvania

Soil Total Metals Analytical Results
Sample Date July 19-20, 2007

Parameter	Residential Direct Contact MSC (0-15')	Non-Residential Direct Contact MSC (2-15')	Soil to Groundwater MSC	D-SB2 (11.5')	D-SB5 (7.5')	D-SB6 (6')	D-SB7 (3.5')	D-SB8 (3.5')
Arsenic	12	190,000	150	4	6	5	NA	NA
Barium	15,000	190,000	8,200	20	51	151	NA	NA
Cadmium	47	190,000	38	1.3	1.2	0.8	NA	NA
Chromium	94	190,000	8,200	7.0	20.3	19.6	NA	NA
Lead	500	190,000	450	19	13	36	18	NA
Mercury	66	190,000	10	<0.22	<0.21	0.24	NA	NA

Notes:

All results in milligrams per kilogram (mg/kg)

Sample depths are shown in parenthesis as part of the sample name

MSC = PADEP Statewide Health Medium Specific Concentration

NA = Not Analyzed

Table 4
Summary of Soil Sample Results for the B&C Fasteners Property
Northwest Triangle Initiative
City of York, York County, Pennsylvania

Soil Volatile/Semi-Volatile Analytical Results
Sample Date July 26, 2007

Parameter	Residential Direct Contact MSC (0- 15')	Non-Residential Direct Contact MSC (0-2')	Non-Residential Direct Contact MSC (2-15')	Soil to Groundwater MSC	E-SS1 (2.5')	E-SS2 (2')	E-SS3 (2.5')	E-SS4 (2')	E-SS5 (2.5')	E-SS6 (2.5')	E-SS7 (2.5')	E-SS8 (2.5')	E-SS9 (2.5')	E-SS10 (2.5')
Acetone	10,000	10,000	10,000	41	<0.0173	0.0268	<0.024	0.0300	0.0406	<0.0193	0.0263	<0.027	<0.0229	<0.0207
Methylene Chloride	680	3,500	4,000	0.5	<0.0014	<0.0019	<0.0019	<0.0019	0.0030	0.0022	0.0024	<0.0022	<0.0018	<0.0017
Benzo(a)anthracene	25	110	190,000	79	<0.084	<0.072	<0.087	<0.080	<0.078	<0.073	<0.083	0.107	0.155	0.154
Benzo(a)pyrene	2.5	11	190,000	46	<0.084	<0.072	<0.087	<0.080	<0.078	<0.073	<0.083	0.100	0.188	0.162
Benzo(b)fluoranthene	250	1,100	190,000	120	<0.084	<0.072	<0.087	<0.080	<0.078	<0.073	<0.083	0.101	0.189	0.216
Benzo(g,h,i)perylene	13,000	170,000	190,000	180	<0.084	<0.072	<0.087	<0.080	<0.078	<0.073	<0.083	<0.083	0.163	<0.076
Benzo(k)fluoranthene	250	1,100	190,000	610	<0.084	<0.072	<0.087	<0.080	<0.078	<0.073	<0.083	0.120	0.192	0.146
Chrysene	2,500	11,000	11,000	230	<0.084	<0.072	<0.087	<0.080	0.103	<0.073	<0.083	0.189	0.263	0.259
Fluoranthene	8,800	110,000	190,000	3,200	<0.084	<0.072	<0.087	<0.080	<0.078	<0.073	<0.083	0.240	0.401	0.390
Indeno(1,2,3-cd)pyrene	25	110	190,000	7,000	<0.084	<0.072	<0.087	<0.080	<0.078	<0.073	<0.083	<0.083	0.138	<0.076
Phenanthrene	66,000	190,000	190,000	2,200	<0.084	<0.072	<0.087	<0.080	<0.078	<0.073	<0.083	0.235	0.271	0.285
Pyrene	6,600	84,000	84,000	2,200	<0.084	<0.072	<0.087	<0.080	<0.078	<0.073	0.0083	0.234	0.470	0.363

Notes:

All results in milligrams per kilogram (mg/kg)

Sample depths are shown in parenthesis as part of the sample name

MSC = PADEP Statewide Health Medium Specific Concentration

Table 4 (cont.)
Summary of Soil Sample Results for the B&C Fasteners Property
Northwest Triangle Initiative
City of York, York County, Pennsylvania

Soil Total Metals Analytical Results
Sample Dates July 26 and November 1, 2007

Parameter	Residential Direct Contact MSC (0-15')	Non-Residential Direct Contact MSC (0-2')	Non-Residential Direct Contact MSC (2-15')	Soil to Groundwater MSC	E-SS1 (2.5')	E-SS2 (2')	E-SS3 (2.5')	E-SS4 (2')	E-SS5 (2.5')	E-SS5 (4')	E-SS6 (2.5')	E-SS7 (2.5')	E-SS8 (2.5')	E-SS8 (4')	E-SS9 (2.5')	E-SS9 (4')	E-SS10 (2.5')	E-SS10 (4')
Arsenic	12	53	190,000	150	6	9	9	3	13	<7	4	11	18	22	46	<12	22	10
Barium	15,000	190,000	190,000	8,200	60	62	100	38	117	NA	29	96	84	NA	98	NA	91	NA
Cadmium	47	210	190,000	38	<0.5	<0.4	<0.5	<0.5	<0.3	NA	<0.4	<0.6	<0.5	NA	0.6	NA	0.9	NA
Chromium	94	420	190,000	8,200	29.5	19.7	40.2	8.3	11.7	NA	10.3	26.4	19.7	NA	37.0	NA	32.4	NA
Lead	500	1,000	190,000	450	13	25	17	6	154	46	6	60	1,430	129	199	102	285	84

Notes:

All results in milligrams per kilogram (mg/kg)

Sample depths are shown in parenthesis as part of the sample name

MSC = PADEP Statewide Health Medium Specific Concentration

13 Result exceeds PADEP MSC

NA = Not Analyzed

Table 5
Summary of Soil Sample Results for Underground Storage Tank Removal
at the B&C Fasteners Property
Northwest Triangle Initiative
City of York, York County, Pennsylvania

Soil Analytical Results
Sample Date October 18, 2007

Parameter	Residential Direct Contact MSC (0-15')	Non-Residential Direct Contact MSC (0-2')	Non-Residential Direct Contact MSC (2-15')	Soil to Groundwater MSC	E-TS1 (5')	E-TS2 (5')	E-LS1 (1')
Benzene	41	210	240	0.5	<0.0533	<0.0452	<0.272
Ethylbenzene	10,000	10,000	10,000	70	<0.0533	<0.0452	<0.272
Isopropylbenzene (Cumene)	7,300	10,000	10,000	780	<0.0533	<0.0452	<0.272
Naphthalene	4,400	56,000	190,000	25	<0.107	<0.0905	<0.545
Toluene	7,600	10,000	10,000	100	<0.0533	<0.0452	<0.272
Fluorene	8,800	110,000	190,000	3,000	<0.118	<0.110	<0.115
Phenanthrene	66,000	190,000	190,000	10,000	<0.118	<0.110	<0.115

Notes:

All results in milligrams per kilogram (mg/kg)

Sample depths are shown in parenthesis as part of the sample name

MSC = PADEP Statewide Health Medium Specific Concentration

APPENDIX A

Hazardous Materials Survey Report



ARM Group Inc.

Earth Resource Engineers and Consultants

September 21, 2007

The City of York
Redevelopment Authority
49 East Market Street
York, PA 17401

Re: Northwest Triangle Initiative
Building Inspection Findings
York, Pennsylvania
ARM Project No. 07214

Dear Authority:

At your request and authorization, ARM Group, Inc. (ARM) completed an asbestos-containing material (ACM) inspection, limited lead-based paint (LBP) inspection, and limited hazardous materials inspection of various buildings that are within a portion of the City of York that is referred to as the Northwest Triangle. In particular, the buildings inspected by ARM consisted of the following: the Keystone Color Works building (109-151 West Gay Street; parcel ID #46-09); the Weavers Auto Body building (216 North Beaver Street; parcel ID #46-05); the P&S Motors building (220 North Beaver Street; parcel ID #46-05); the B&C Fasteners Building (146-150 North Beaver Street; parcel ID #45-11); the Beaver Street Townhouses (200-204 North Beaver Street; parcel ID #s 46-01, 46-02, and 46-03); and the Thomas Somerville building (parcel ID #s 43-01 and 43-03). The inspections and associated asbestos sampling were conducted in July 2007 by a Pennsylvania-licensed Asbestos Inspector (Mark Heisey, PADOLI Asbestos Inspector #024830). The purpose of this work was to gather information to be used by the City of York Redevelopment Authority and others to support the planning for the redevelopment of these properties.

In general, ARM completed the following activities at the referenced properties:

- an asbestos containing material (ACM) inspection, which included the collection of samples from suspect ACMs for laboratory analysis to help determine the applicable requirements for ACM removal and management in association with the demolition or renovation of the buildings;
- a limited lead-based paint (LBP) inspection, which included the use of colorimetric paint swabs to determine if the lead content of the painted surfaces may present a potential concern for building reuse and/or management of building demolition debris; and

- a limited hazardous materials inspection to identify building components such as light fixtures and switches that could require special handling during demolition or renovation of the buildings.

This letter presents the findings, conclusions and recommendations from this work.

SUMMARY OF FINDINGS

Keystone Color Works (Parcel ID #46-09)

The following items were noted to be present within the Keystone Color Works building:

- approximately 1,045 linear feet of various-sized ACM pipe insulation;
- approximately 100 square feet of ACM floor tile;
- approximately 120 fluorescent light fixtures (with potential PCBs); and
- two 275-gallon fuel oil tanks on first floor.

It should also be noted that the Keystone Color Works building was still occupied at the time of ARM's inspection, and several drums of pigments, dyes, and other miscellaneous items were observed throughout the building. These items, if not removed by the current occupant, will need to be removed and properly disposed of prior to any renovation / demolition activities.

Weavers Auto Body and P&S Motors Buildings (Parcel ID #s 46-05)

The following items were noted to be present within the Weavers Auto Body building and adjacent P&S Motors building:

- approximately 300 square feet of ACM floor tile;
- miscellaneous consumer-end-packaged automobile fluids, paints, and solvents;
- miscellaneous debris, consisting primarily of municipal waste; and
- an underground hydraulic lift.

It should also be noted that the Weavers Auto Body and adjacent P&S Motors buildings are still occupied and several automobiles and automobile parts are located on these properties. These items, if not removed by the current occupants, will need to be removed and properly disposed of prior to any renovation / demolition activities.

B&C Fasteners Building (Parcel ID # 45-11)

The following items were noted to be present within the B&C Fasteners building:

- approximately 5,000 square feet of ACM mastic associated with white floor tile;
- approximately 120 fluorescent light fixtures (with potential PCBs);
- miscellaneous debris, consisting primarily of municipal waste; and



- one canister of welding gas.

In addition, a Phase I ESA completed by Edge Environmental reported that an above ground storage tank (AST) and an underground storage tank (UST) are located on this property.

Beaver Street Townhouses (Parcel ID #s 46-01, 46-02, and 46-03)

The following items were noted to be present within the Beaver Street Townhouses:

- approximately 1,020 square feet of ACM linoleum in 200 North Beaver Street;
- approximately 100 square feet of ACM mastic in 200 North Beaver Street;
- approximately 200 square feet of ACM linoleum and mastic in 204 North Beaver Street;
- basements are located beneath the townhouses; and
- miscellaneous debris, such as municipal waste, old furniture, appliances, etc., were observed in each of the townhouses.

Thomas Summerville Building (Parcel ID #s 43-01 and 43-03)

The following items were noted to be present within the Thomas Summerville Building:

- approximately 650 square feet of multilayered ACM floor tile and mastic;
- approximately 3000 square feet of ACM floor tile in the second floor office area;
- approximately 150 square feet of ACM floor tile and mastic in the second floor office area;
- miscellaneous debris, consisting primarily of municipal waste; and
- a basement is located beneath the eastern portion of the building.

It should also be noted that the Thomas Summerville building is currently being used by the York Revolution Baseball team for storage of miscellaneous items. These items, if not removed by the current occupants, will need to be removed prior to any renovation / demolition activities.

CONCLUSIONS / RECOMMENDATIONS

The ACM Inspection identified approximately 10,270 sf of resilient floor covering (floor tile, linoleum, and associated mastic) within the buildings that were investigated. Per the USEPA National Emission Standards for Hazardous Air Pollutants (NESHAP) (40 CFR part 61, Subpart M) these materials are considered to be Category I Non-Friable ACMs. Category I materials that are not friable prior to demolition may be left in place during demolition as long as the demolition practices will not render these materials friable.

The ACM Inspection identified approximately 1,045 lf of various sized pipe insulation. Per the USEPA NESHAP (40 CFR part 61, Subpart M) these materials are considered to be a Regulated Asbestos Containing Material (RACM). RACM materials must be removed by a licensed asbestos abatement contractor prior to any renovation / demolition activities.



It should be noted that roofing materials were not sampled as part of the limited ACM inspection and therefore they are considered to be presumed asbestos containing materials (PACMS) and should be treated as ACMs during any renovation / demolition activities. Per the USEPA NESHAP (40 CFR part 61, Subpart M) roofing materials are considered to be Category I Non-Friable ACMs. As mentioned above, Category I materials that are not friable prior to demolition may be left in place during demolition as long as the demolition practices will not render these materials friable.

Surfaces within many of the on-site buildings are suspected to be painted with LBP. However, it should be noted that colorimetric paint swabs were used to test painted surfaces within the Keystone Color Works Building, the Weavers Garage Building and Adjacent Auto Sales building, the B&C Fasteners Building, the Beaver Street Townhouses, and the Thomas Summerville Building. Results of the testing did not identify any of the painted surfaces that were tested as containing LBP.

Since the buildings are not “child occupied facilities” as defined by the USEPA in 40 CFR 745, abatement of the LBP is not required prior to any renovations / demolition. However, should future renovations / demolition include the removal of paint films or building components containing suspect LBP, the disposal of those components could be subject to specific disposal restrictions. Specifically, waste characterization via the Toxicity Characteristic Leaching Procedure (TCLP) may be required. In addition, contractors completing renovations should be made aware of the potential presence of LBP and are required to comply with the OSHA Lead in Construction regulations (29CFR1926.62) including pre-job medical surveillance, respiratory protection for uncharacterized, manual demolition, etc. Furthermore, should any of the on-site buildings be reused, and if their reuse would result in them being considered to be a child occupied facility, a detailed LBP investigation could be warranted upon their completion depending on the magnitude of the renovation activities.

Fluorescent light fixtures were observed throughout many of the on-site buildings. The fluorescent light fixtures should be removed prior to any renovation / demolition activities, and their PCB content should be determined. If they are determined to be PCB containing they will need to be disposed of in accordance with all applicable regulations.

Miscellaneous wastes and debris consisting primarily of municipal waste and consumer-end-packaged automobile fluids, paints, and solvents was observed within many of the buildings that were inspected. Prior to any renovation / demolition activities of these buildings, these items should be removed and disposed of in accordance with all applicable regulations.

ASTs were observed, or reported by others, to be located within many of the inspected buildings. Prior to any renovation / demolition activities the ASTs should be removed and disposed of in accordance with all applicable regulations.

The underground hydraulic lift that was observed within the Weavers Garage building should be removed as part of any renovation / demolition activities. Following the removal of the lift the soils beneath the lift should be inspected for indications of a release of hydraulic fluid. Should



any indications be observed, such as stained soils and/or free product, the soils should be overexcavated, stockpiled, and sampled prior to disposal. In addition, post excavation soil samples should be collected to document that any impacted soils were removed. The soils, the lift, and any hydraulic fluid within the lift should be disposed of in accordance with all applicable regulations.

Basements are located beneath the eastern portion of the Thomas Summerville Building and each of the townhouses. If these buildings are to be demolished, the basements will need to be backfilled with clean fill.

Although the inspection was limited in some places, mercury containing switches may be present. Following removal of internal materials and debris, a final inspection for mercury-containing switches should be conducted, and such switches should be removed and managed in accordance with the applicable regulations as part of the demolition activities.

CLOSING

If you should have any questions or comments regarding this report or the associated findings, or if you require any additional information, please contact either of the undersigned at your earliest convenience.

Respectfully submitted,
ARM Group Inc.



Mark J. Heisey, CEM, CES
ARM Group - Project Scientist
PADOLI Asbestos Inspector #024830

Attachments:

Table 1 – Asbestos Bulk Sample Results
Appendix A – Laboratory Analysis Report



TABLE 1

ASBESTOS BULK SAMPLE RESULTS

Table 1
Asbestos Bulk Sample Results

Keystone Color Works Building (Parcel ID# 46-09)						
Homogeneous Material Description	Location(s)	Quantity	Sample ID	Result	Analytical Method	Type / Category / Condition
4" Air Cell	Shipping and Receiving	125 lf	KCW-1	25% Chrysotile	600/R-93/116	Friable / Damaged
6" Air Cell	Shipping and Receiving	125 lf	KCW-2	30% Chrysotile	600/R-93/116	Friable / Damaged
2" Air Cell	Shipping and Receiving	100 lf	KCW-3	15% Chrysotile	600/R-93/116	Friable / Damaged
8" Air Cell	Shipping and Receiving	50 lf	KCW-4	25% Chrysotile	600/R-93/116	Friable / Damaged
Mag Pipe Elbows	Shipping and Receiving	20 lf	KCW-5	40% Chrysotile	600/R-93/116	Friable / Damaged
4" Air Cell	Red Tank Room	150 lf	KCW-6	25% Chrysotile	600/R-93/116	Friable / Damaged
4" Air Cell	Blue Tank Room	150 lf	KCW-7	35% Chrysotile	600/R-93/116	Friable / Damaged
4" Air Cell	Press Room	125 lf	KCW-8	30% Chrysotile	600/R-93/116	Friable / Damaged
Mag Pipe Insulation	Yellow and Blue Tank Room	100 lf	KCW-9	30% Chrysotile	600/R-93/116	Friable / Damaged
4" Air Cell	Yellow and Blue Tank Room	100 lf	KCW-10	35% Chrysotile	600/R-93/116	Friable / Damaged
Boiler Insulation	Boiler Room	500 sf	KCW-11a	<1% Amosite	600/R-93/116	---
			KCW-11b	ND		
			KCW-11c	<1% Chrysotile		
9x9 Floor Tile	2 nd Floor Ladies Room	100 sf	KCW-12	7% Chrysotile	600/R-93/116	NESHAP: Cat I –II/NF AHERA: Misc / Damaged
Mastic Associated with Above	2 nd Floor Ladies Room	100 sf	KCW-12a	ND	600/R-93/116	---
Weaver's Auto Body Building (Parcel ID# 46-05)						
Homogeneous Material Description	Location(s)	Quantity	Sample ID	Result	Analytical Method	Type / Category / Condition
9x9 Floor Tile	Office	300 sf	W-1	7% Chrysotile	600/R-93/116	NESHAP: Cat I –II/NF AHERA: Misc / Damaged
Mastic Associated with Above	Office	300 sf	W-1a	ND	600/R-93/116	---
P&S Motors Building (Parcel ID # 46-05)						
Homogeneous Material Description	Location(s)	Quantity	Sample ID	Result	Analytical Method	Type / Category / Condition

9x9 Floor Tile	Office	500 sf	P-1	ND	600/R-93/116	---
Mastic Associated with Above	Office	500 sf	P-1a	ND	600/R-93/116	---
B&C Fasteners Building (Parcel ID # 45-11)						
Homogeneous Material Description	Location(s)	Quantity	Sample ID	Result	Analytical Method	Type / Category / Condition
12x12 White Floor Tile	Office	5,000 sf	BC-1	ND	600/R-93/116	---
Mastic Associated with Above	Office	5,000 sf	BC-1a	5% Chrysotile	600/R-93/116	NESHAP: Cat I –II/NF AHERA: Misc / Damaged
12x12 Gray Floor Tile	Office	2,500 sf	BC-2	ND	600/R-93/116	---
Mastic Associated with Above	Office	2,500 sf	BC-2a	ND	600/R-93/116	---
200 North Beaver Street (Parcel ID # 46-01)						
Homogeneous Material Description	Location(s)	Quantity	Sample ID	Result	Analytical Method	Type / Category / Condition
2x4 Ceiling Tile	1 st Floor Front	450 sf	200-1	ND	600/R-93/116	---
Linoleum	1 st Floor Front Kitchen	200 sf	200-2	ND	600/R-93/116	---
Mastic From Above	1 st Floor Front Kitchen	200 sf	200-2a	ND	600/R-93/116	---
Linoleum	1st Floor Front Kitchen (2nd layer)	200 sf	200-3	15% Chrysotile	600/R-93/116	NESHAP: Cat I –II/NF AHERA: Misc / Damaged
Mastic From Above	1 st Floor Front-Kitchen	200 sf	200-3a	ND	600/R-93/116	---
Linoleum	1st Floor Front Bathroom	20 sf	200-4	15% Chrysotile	600/R-93/116	NESHAP: Cat I –II/NF AHERA: Misc / Damaged
Mastic From Above	1 st Floor Front-Kitchen	20 sf	200-4a	ND	600/R-93/116	---
2x4 Ceiling Tile	1 st Floor Rear	200 sf	200-5	ND	600/R-93/116	---
Linoleum	1 st Floor Rear Kitchen	175 sf	200-6	ND	600/R-93/116	---
Mastic From Above	1 st Floor Rear Kitchen	175 sf	200-6a	ND	600/R-93/116	---
Linoleum	Entry Hall	200 sf	200-7	10% Chrysotile	600/R-93/116	NESHAP: Cat I –II/NF AHERA: Misc / Damaged
Mastic From Above	1 st Floor Rear Kitchen	175 sf	200-7a	ND	600/R-93/116	---
2x4 Ceiling Tile	1 st Floor Rear Loft	200 sf	200-8	ND	600/R-93/116	---
2x4 Ceiling Tile	2 nd Floor Living Room	200 sf	200-9	ND	600/R-93/116	---

Linoleum	2 nd Floor Kitchen	200 sf	200-10	ND	600/R-93/116	---
Mastic From Above	2 nd Floor Kitchen	200 sf	200-10a	ND	600/R-93/116	---
Linoleum	2nd Floor Kitchen (2nd layer)	200 sf	200-11	15% Chrysotile	600/R-93/116	NESHAP: Cat I –II/NF AHERA: Misc / Damaged
Mastic From Above	2 nd Floor Kitchen (2 nd layer)	200 sf	200-11a	ND	600/R-93/116	---
Linoleum	2nd Floor Bathroom	100 sf	200-12	15% Chrysotile	600/R-93/116	NESHAP: Cat I –II/NF AHERA: Misc / Damaged
Mastic From Above	2nd Floor Bathroom	100 sf	200-12a	ND	600/R-93/116	---
Linoleum	3 rd Floor Kitchen	200 sf	200-13	ND	600/R-93/116	---
Linoleum	3rd Floor Kitchen (2nd layer)	200 sf	200-14	15% Chrysotile	600/R-93/116	NESHAP: Cat I –II/NF AHERA: Misc / Damaged
Mastic From Above	3 rd Floor Bathroom	200 sf	200-14a	ND	600/R-93/116	---
Linoleum	3rd Floor Bathroom	100 sf	200-15	15% Chrysotile	600/R-93/116	NESHAP: Cat I –II/NF AHERA: Misc / Damaged
Mastic From Above	3rd Floor Bathroom	100 sf	200-15a	2% Chrysotile	600/R-93/116	NESHAP: Cat I –II/NF AHERA: Misc / Damaged
202 North Beaver Street (Parcel ID # 46-01)						
Homogeneous Material Description	Location(s)	Quantity	Sample ID	Result	Analytical Method	Type / Category / Condition
2x4 Ceiling Tile	2 nd Floor Kitchen	250 sf	202-1	ND	600/R-93/116	---
204 North Beaver Street (Parcel ID # 46-02)						
Homogeneous Material Description	Location(s)	Quantity	Sample ID	Result	Analytical Method	Type / Category / Condition
2x4 Ceiling Tile	1 st Floor Kitchen	200 sf	204-1	ND	600/R-93/116	---
Linoleum	1st Floor Kitchen	200 sf	204-2	15% Chrysotile	600/R-93/116	NESHAP: Cat I –II/NF AHERA: Misc / Damaged
Mastic From Above	1st Floor Kitchen	200 sf	204-2a	3% Chrysotile	600/R-93/116	NESHAP: Cat I –II/NF AHERA: Misc / Damaged
Linoleum	1 st Floor Bathroom	100 sf	204-3	ND	600/R-93/116	---
Mastic From Above	1 st Floor Kitchen	100 sf	204-3a	ND	600/R-93/116	---
2x4 Ceiling Tile	2 nd Floor Middle Room	225 sf	204-4	ND	600/R-93/116	---
2x4 Ceiling Tile	2 nd Floor Kitchen	125 sf	204-5	ND	600/R-93/116	---
Linoleum	2 nd Floor Kitchen	125 sf	204-6	ND	600/R-93/116	---
Mastic From Above	2 nd Floor Kitchen	125 sf	204-6a	ND	600/R-93/116	---
2x4 Ceiling Tile	3 rd Floor	750 sf	204-7	ND	600/R-93/116	---
206 North Beaver Street (Parcel ID # 46-03)						
Homogeneous Material Description	Location(s)	Quantity	Sample ID	Result	Analytical Method	Type / Category / Condition
12x12 floor tile black	1 st Floor	500 sf	206-1	ND	600/R-93/116	---

and white						
Mastic From Above	1 st Floor	500 sf	206-1a	<1% Chrysotile	600/R-93/116	---
12x12 floor tile solid black	1 st Floor	500 sf	206-2	ND	600/R-93/116	---
Mastic From Above	1 st Floor	500 sf	206-2a	ND	600/R-93/116	---
12x12 floor tile solid black	2 nd Floor	750 sf	206-3	ND	600/R-93/116	---
Mastic From Above	2 nd Floor	750 sf	206-3a	ND	600/R-93/116	---
12x12 floor tile black and white	2 nd Floor	25 sf	206-4	ND	600/R-93/116	---
Mastic From Above	2 nd Floor	25 sf	206-4a	ND	600/R-93/116	---
12x12 floor tile white	2 nd Floor	25 sf	206-5	ND	600/R-93/116	---
Mastic From Above	2 nd Floor	25 sf	206-5a	ND	600/R-93/116	---
12x12 floor tile solid black	3 rd Floor	100 sf	206-6	ND	600/R-93/116	---
Mastic From Above	3 rd Floor	100 sf	206-6a	ND	600/R-93/116	---
Thomas Summerville Building (Parcel ID # 43-01 and 43-03)						
Homogeneous Material Description	Location(s)	Quantity	Sample ID	Result	Analytical Method	Type / Category / Condition
9x9 Floor Tile	Front Room	650 sf	TS-1	2% Chrysotile	600/R-93/116	NESHAP: Cat I –II/NF AHERA: Misc / Damaged
Mastic From Above	Front Room	650 sf	TS-1a	7% Chrysotile	600/R-93/116	NESHAP: Cat I –II/NF AHERA: Misc / Damaged
9x9 Floor Tile (2 nd layer)	Front Room	650 sf	TS-1A	10% Chrysotile	600/R-93/116	NESHAP: Cat I –II/NF AHERA: Misc / Damaged
Mastic From Above	Front Room	650 sf	TS-1aA	8% Chrysotile	600/R-93/116	NESHAP: Cat I –II/NF AHERA: Misc / Damaged
2x4 Ceiling Tile	Front Room	650 sf	TS-2	ND	600/R-93/116	---
9x9 Floor Tile White	2 nd Floor Offices	3000 sf	TS-3	8% Chrysotile	600/R-93/116	NESHAP: Cat I –II/NF AHERA: Misc / Damaged
Mastic From Above	2 nd Floor Offices	3000 sf	TS-3a	<1% Chrysotile	600/R-93/116	---
9x9 Floor Tile Red	2 nd Floor Offices	150 sf	TS-4	10% Chrysotile	600/R-93/116	NESHAP: Cat I –II/NF AHERA: Misc / Damaged
Mastic From Above	2 nd Floor Offices	150 sf	TS-4a	6% Chrysotile	600/R-93/116	NESHAP: Cat I –II/NF AHERA: Misc / Damaged
12x12 Ceiling Tile	2 nd Floor Offices	3000 sf	TS-5	ND	600/R-93/116	---
Mastic From Above	2 nd Floor Offices	3000 sf	TS-5a	ND	600/R-93/116	---
12x12 Floor Tile Blue	1 st Floor Rear	3000 sf	TS-6	ND	600/R-93/116	---

Mastic From Above	1 st Floor Rear	3000 sf	TS-6a	ND	600/R-93/116	---
2x4 Ceiling Tile	1 st Floor Rear	3000 sf	TS-7	ND	600/R-93/116	---
12x12 Floor Tile Red	1 st Floor Rear	3000 sf	TS-8	ND	600/R-93/116	---
Mastic From Above	1 st Floor Rear	3000 sf	TS-8a	ND	600/R-93/116	---
12x12 Floor Tile Tan	1 st Floor Rear	3000 sf	TS-9	ND	600/R-93/116	---
Mastic From Above	1 st Floor Rear	3000 sf	TS-9a	ND	600/R-93/116	---

Notes: Bold text indicates positive asbestos result.
See following page for Terms and Definitions

Notes and Definitions

SF – Square Feet

NA – Not Analyzed

Ch – Chrysotile (Type of Asbestos)

ND – No Asbestos Detected

NF – Non-friable

F – Friable

LF – Linear Feet

NS – Not Sampled

CAT I – USEPA Category I ACM

CAT II – USEPA Category ACM

PACM – Presumed ACM

UND – Undetermined at the Time of Inspection

In accordance with the Asbestos Hazard and Emergency Response Act (AHERA) 40 CFR 763, the following definitions are referenced:

Surfacing material – Material in a building that is sprayed-on, troweled-on, or otherwise applied to surfaces.

Miscellaneous material – Building material on structural components, structural members, or fixtures, such as floor and ceiling tiles. Material that is not defined as a thermal system insulation or surfacing material.

Thermal system insulation – Material in a building to prevent heat loss/gain in a structure or building component.

Good (undamaged condition) – Material with no or very limited visible damage or deterioration.

Friable – material in a building, when dry, may be crumbled, pulverized, or reduced to powder by hand pressure, and includes previously non-friable material after such previously non-friable material becomes damaged to the extent that when dry it may be crumbled, pulverized, or reduced to powder by hand pressure.

Non-friable – material in a building which, when dry, may not be crumbled, pulverized, or reduced to powder by hand pressure.

Areas of ACM were categorized in accordance with USEPA, National Emissions Standards for Hazardous Air Pollutants; Asbestos (NESHAPS) 40 CFR 61 as follows:

Category I Non-Friable ACM (CAT I) – Asbestos containing packing, gaskets, floor covering and asphalt roofing products containing more than one percent (1%) asbestos.

Category II Non-Friable ACM (CAT II) – Any material, excluding Category I non-friable asbestos containing material, containing more than one percent (1%) asbestos. Material, that when dry, cannot be crumbled, pulverized, or reduced to powder by hand pressure.

Regulated Asbestos Containing Material (RACM) – Friable asbestos material, Category I non-friable asbestos containing material that has become friable, Category I non-friable asbestos material that will be or has been subject to sanding, grinding, cutting, or abrading. Category II non-friable asbestos containing material that has a high probability of becoming or has become crumbled, pulverized, or reduced to powder by the forces expected to act on the material in the course of demolition.

APPENDIX A

LABORATORY ANALYSIS REPORT

**EMSL Analytical, Inc.**

521 Plymouth Road, Suite 107, Plymouth Meeting, PA 19462

Phone: Fax: Email: plymouthmeetinglab@emsl.com

Attn: **Mark Heisey**
ARM Group, Inc.
1129 West Governor Road PO Box 797
Hershey, PA 17033-0797

Fax: (717) 533-8605 Phone: (717) 533-8600
Project: **07214 / York NWT**

Customer ID: ARMG93
Customer PO:
Received: 07/30/07 9:16 AM
EMSL Order: 180701334

EMSL Proj:
Analysis Date: 8/8/2007
Report Date: 8/9/2007

Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

Sample	Location	Appearance	<u>Non-Asbestos</u>		<u>Asbestos</u>
			% Fibrous	% Non-Fibrous	% Type
KCW-1a 180701334-0001	4" Air Cell - Shipping & Receiving	Various Fibrous Heterogeneous	60% Cellulose	15% Non-fibrous (other)	25% Chrysotile
KCW-1b 180701334-0002	4" Air Cell - Shipping & Receiving				Stop Positive (Not Analyzed)
KCW-1c 180701334-0003	4" Air Cell - Shipping & Receiving				Stop Positive (Not Analyzed)
KCW-2a 180701334-0004	6" Air Cell - Shipping & Receiving	Various Fibrous Heterogeneous	50% Cellulose	20% Non-fibrous (other)	30% Chrysotile
KCW-2b 180701334-0005	6" Air Cell - Shipping & Receiving				Stop Positive (Not Analyzed)
KCW-2c 180701334-0006	6" Air Cell - Shipping & Receiving				Stop Positive (Not Analyzed)
KCW-3a 180701334-0007	2" Air Cell - Shipping & Receiving	Various Fibrous Heterogeneous	75% Cellulose	10% Non-fibrous (other)	15% Chrysotile
KCW-3b 180701334-0008	2" Air Cell - Shipping & Receiving				Stop Positive (Not Analyzed)

Analyst(s)

Robert Privette (109)

R. Privette, Laboratory Manager
or other approved signatory

Due to magnification limitations inherent in PLM, asbestos fibers in dimensions below the resolution capability of PLM may not be detected. Samples reported as <1% or none detected may require additional testing by TEM to confirm asbestos quantities. The above test report relates only to the items tested and may not be reproduced in any form without the express written approval of EMSL Analytical, Inc. EMSL's liability is limited to the cost of analysis. EMSL bears no responsibility for sample collection activities or analytical method limitations. Interpretation and use of test results are the responsibility of the client. Samples received in good condition unless otherwise noted.

Analysis performed by EMSL Plymouth Meeting (NVLAP #200699-0)

**EMSL Analytical, Inc.**

521 Plymouth Road, Suite 107, Plymouth Meeting, PA 19462

Phone: Fax: Email: plymouthmeetinglab@emsl.com

Attn: **Mark Heisey**
ARM Group, Inc.
1129 West Governor Road PO Box 797
Hershey, PA 17033-0797

Customer ID: ARMG93
Customer PO:
Received: 07/30/07 9:16 AM
EMSL Order: 180701334

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Project: **07214 / York NWT**

EMSL Proj:
Analysis Date: 8/8/2007
Report Date: 8/9/2007

Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

Sample	Location	Appearance	<u>Non-Asbestos</u>		<u>Asbestos</u>
			% Fibrous	% Non-Fibrous	% Type
KCW-3c 180701334-0009	2" Air Cell - Shipping & Receiving				Stop Positive (Not Analyzed)
KCW-4a 180701334-0010	8" Air Cell - Shipping & Receiving	Various Fibrous Heterogeneous	50% Cellulose	25% Non-fibrous (other)	25% Chrysotile
KCW-4b 180701334-0011	8" Air Cell - Shipping & Receiving				Stop Positive (Not Analyzed)
KCW-4c 180701334-0012	8" Air Cell - Shipping & Receiving				Stop Positive (Not Analyzed)
KCW-5a 180701334-0013	Mag Elbows - Shipping & Receiving	White Fibrous Heterogeneous	10% Cellulose	50% Non-fibrous (other)	40% Chrysotile
KCW-5b 180701334-0014	Mag Elbows - Shipping & Receiving				Stop Positive (Not Analyzed)
KCW-5c 180701334-0015	Mag Elbows - Shipping & Receiving				Stop Positive (Not Analyzed)
KCW-6a 180701334-0016	4" Air Cell - Red tank room	Various Fibrous Heterogeneous	50% Cellulose	25% Non-fibrous (other)	25% Chrysotile

Analyst(s)

Robert Privette (109)

R. Privette, Laboratory Manager
or other approved signatory

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**EMSL Analytical, Inc.**

521 Plymouth Road, Suite 107, Plymouth Meeting, PA 19462

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Sample	Location	Appearance	<u>Non-Asbestos</u>		<u>Asbestos</u>
			% Fibrous	% Non-Fibrous	% Type
KCW-6b 180701334-0017	4" Air Cell - Red tank room				Stop Positive (Not Analyzed)
KCW-6c 180701334-0018	4" Air Cell - Red tank room				Stop Positive (Not Analyzed)
KCW-7a 180701334-0019	4" Air Cell - Blue tank room	Various Fibrous Heterogeneous	40% Cellulose	25% Non-fibrous (other)	35% Chrysotile
KCW-7b 180701334-0020	4" Air Cell - Blue tank room				Stop Positive (Not Analyzed)
KCW-7c 180701334-0021	4" Air Cell - Blue tank room				Stop Positive (Not Analyzed)
KCW-8a 180701334-0022	4" Air Cell - Press room	Various Fibrous Heterogeneous	45% Cellulose	25% Non-fibrous (other)	30% Chrysotile
KCW-8b 180701334-0023	4" Air Cell - Press room				Stop Positive (Not Analyzed)
KCW-8c 180701334-0024	4" Air Cell - Press room				Stop Positive (Not Analyzed)

Analyst(s)

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Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

Sample	Location	Appearance	<u>Non-Asbestos</u>		<u>Asbestos</u>
			% Fibrous	% Non-Fibrous	% Type
KCW-9a 180701334-0025	Mag Pipe Insul. - Yellow & Blue Tank Room	Various Fibrous Heterogeneous	10% Cellulose	60% Non-fibrous (other)	30% Chrysotile
KCW-9b 180701334-0026	Mag Pipe Insul. - Yellow & Blue Tank Room				Stop Positive (Not Analyzed)
KCW-9c 180701334-0027	Mag Pipe Insul. - Yellow & Blue Tank Room				Stop Positive (Not Analyzed)
KCW-10a 180701334-0028	4" Air Cell - Yellow & Blue Tank Room	Various Fibrous Heterogeneous	15% Cellulose	50% Non-fibrous (other)	35% Chrysotile
KCW-10b 180701334-0029	4" Air Cell - Yellow & Blue Tank Room				Stop Positive (Not Analyzed)
KCW-10c 180701334-0030	4" Air Cell - Yellow & Blue Tank Room				Stop Positive (Not Analyzed)
KCW-11a 180701334-0031	Boiler Insulation - Boiler room	Various Fibrous Heterogeneous	2% Cellulose 80% Min. Wool	18% Non-fibrous (other)	<1% Amosite
KCW-11b 180701334-0032	Boiler Insulation - Boiler room	Various Fibrous Heterogeneous	1% Cellulose 80% Min. Wool	19% Non-fibrous (other)	None Detected

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Sample	Location	Appearance	<u>Non-Asbestos</u>		<u>Asbestos</u>
			%	Fibrous	% Type
KCW-11c 180701334-0033	Boiler Insulation - Boiler room	Various Fibrous Heterogeneous	1% 80%	Cellulose Min. Wool	19% Non-fibrous (other) <1% Chrysotile
KCW-12 180701334-0034	9x9 FT - Ladies Rm	Olive Non-Fibrous Heterogeneous	1%	Cellulose	92% Non-fibrous (other) 7% Chrysotile
KCW-12a 180701334-0035	9x9 FT - Ladies Rm-mastic	Black Fibrous Heterogeneous	15%	Cellulose	85% Non-fibrous (other) None Detected
W-1 180701334-0036	9x9 FT - Office	Tan Non-Fibrous Heterogeneous			93% Non-fibrous (other) 7% Chrysotile
W-1a 180701334-0037	9x9 FT - Office - mastic	Black Non-Fibrous Homogeneous	1%	Cellulose	99% Non-fibrous (other) None Detected
P-1 180701334-0038	9x9 FT - Office	Various Fibrous Heterogeneous	3%	Synthetic	97% Non-fibrous (other) None Detected
P-1a 180701334-0039	9x9 FT - Office - mastic	Brown Non-Fibrous Homogeneous	1% 1%	Cellulose Min. Wool	98% Non-fibrous (other) None Detected
BC-1 180701334-0040	12x12 FT white - Offices	White Non-Fibrous Heterogeneous			100% Non-fibrous (other) None Detected

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Sample	Location	Appearance	<u>Non-Asbestos</u>		<u>Asbestos</u>
			% Fibrous	% Non-Fibrous	% Type
BC-1a 180701334-0041	12x12 FT white - Offices - mastic	Black Non-Fibrous Homogeneous	1% Cellulose	94% Non-fibrous (other)	5% Chrysotile
BC-2 180701334-0042	12x12 FT grey - Offices	Gray Non-Fibrous Heterogeneous		100% Non-fibrous (other)	None Detected
BC-2a 180701334-0043	12x12 FT grey - Offices - mastic	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
200-1 180701334-0044	2x4 CT - 1st Fl Front	Various Fibrous Heterogeneous	90% Min. Wool	10% Non-fibrous (other)	None Detected
200-2 180701334-0045	Lanol. - 1st Fl Front Kit	Various Fibrous Heterogeneous	15% Cellulose 10% Glass	75% Non-fibrous (other)	None Detected
200-2a 180701334-0046	Lanol. - 1st Fl Front Kit- mastic	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
200-3 180701334-0047	Lanol. - 1st Fl Front Kit- 2nd layer	Various Fibrous Heterogeneous	10% Cellulose	75% Non-fibrous (other)	15% Chrysotile
200-3a 180701334-0048	Lanol. - 1st Fl Front Kit- 2nd layer - mastic	Beige Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected

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Sample	Location	Appearance	<u>Non-Asbestos</u>		<u>Asbestos</u>
			%	Fibrous	% Type
200-4 180701334-0049	Lanol. - 1st Fl Front BR	Various Fibrous Heterogeneous	20%	Cellulose	65% Non-fibrous (other) 15% Chrysotile
200-4a 180701334-0050	Lanol. - 1st Fl Front BR - mastic	Brown Non-Fibrous Homogeneous	2%	Cellulose	98% Non-fibrous (other) None Detected
200-5 180701334-0051	2x4 CT- 1st Fl rear	Various Fibrous Heterogeneous	45% 20%	Cellulose Min. Wool	35% Non-fibrous (other) None Detected
200-6 180701334-0052	Lanol. - 1st Fl Rear	Various Fibrous Heterogeneous	45% 10%	Cellulose Min. Wool	45% Non-fibrous (other) None Detected
200-6a 180701334-0053	Lanol. - 1st Fl Rear - mastic	Brown Fibrous Heterogeneous	40%	Cellulose	60% Non-fibrous (other) None Detected
200-7 180701334-0054	Lanol. - Entry Hall	Various Fibrous Heterogeneous	20%	Cellulose	70% Non-fibrous (other) 10% Chrysotile
200-7a 180701334-0055	Lanol. - Entry Hall - mastic	Tan Fibrous Heterogeneous	20%	Cellulose	80% Non-fibrous (other) None Detected
200-8 180701334-0056	2x4 CT - 1st Fl rear Loft	Various Fibrous Heterogeneous	90%	Glass	10% Non-fibrous (other) None Detected

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Sample	Location	Appearance	<u>Non-Asbestos</u>		<u>Asbestos</u>
			%	Fibrous	% Type
200-9 180701334-0057	2x4 CT - 2nd Fl LR	Various Fibrous Heterogeneous	40%	Cellulose	45% Non-fibrous (other) None Detected
200-10 180701334-0058	Lanol. - 2nd Fl Kitchen	White Non-Fibrous Heterogeneous			100% Non-fibrous (other) None Detected
200-10a 180701334-0059	Lanol. - 2nd Fl Kitchen- mastic	Yellow Non-Fibrous Homogeneous			100% Non-fibrous (other) None Detected
200-11 180701334-0060	Lanol. - 2nd Fl Kitchen- 2nd layer	Various Fibrous Heterogeneous	15%	Cellulose	70% Non-fibrous (other) 15% Chrysotile
200-11a 180701334-0061	Lanol. - 2nd Fl Kitchen- 2nd layer mastic	Tan Fibrous Heterogeneous	5%	Cellulose	95% Non-fibrous (other) None Detected
200-12 180701334-0062	Lanol. - 2nd Fl BR	Various Fibrous Heterogeneous	20%	Cellulose	65% Non-fibrous (other) 15% Chrysotile
200-12a 180701334-0063	Lanol. - 2nd Fl BR - mastic	Tan Non-Fibrous Homogeneous			100% Non-fibrous (other) None Detected
200-13 180701334-0064	Lanol. - 3rd Fl Kitchen	Beige Non-Fibrous Heterogeneous			100% Non-fibrous (other) None Detected

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Sample	Location	Appearance	<u>Non-Asbestos</u>		<u>Asbestos</u>
			% Fibrous	% Non-Fibrous	% Type
200-14 180701334-0065	Lanol. - 3rd Fl Kitchen - 2nd layer	Various Fibrous Heterogeneous	10% Cellulose	75% Non-fibrous (other)	15% Chrysotile
200-14a 180701334-0066	Lanol. - 3rd Fl Kitchen - 2nd layer - mastic	Brown Fibrous Heterogeneous	35% Cellulose	65% Non-fibrous (other)	None Detected
200-15 180701334-0067	Lanol. - 3rd Fl BR	Various Fibrous Heterogeneous	15% Cellulose	70% Non-fibrous (other)	15% Chrysotile
200-15a 180701334-0068	Lanol. - 3rd Fl BR - mastic	Tan Fibrous Heterogeneous	10% Cellulose	88% Non-fibrous (other)	2% Chrysotile
202-1 180701334-0069	2x4 CT - 2nd Fl Kitchen	Various Fibrous Heterogeneous	50% Cellulose 10% Min. Wool	40% Non-fibrous (other)	None Detected
204-1 180701334-0070	2x4 CT - 1st Fl Kitchen	Various Fibrous Heterogeneous	40% Cellulose 10% Min. Wool	50% Non-fibrous (other)	None Detected
204-2 180701334-0071	Lanol. - 1st Fl Kitchen	Various Fibrous Heterogeneous	10% Cellulose	75% Non-fibrous (other)	15% Chrysotile
204-2a 180701334-0072	Lanol. - 1st Fl Kitchen - mastic	Tan Fibrous Heterogeneous	50% Cellulose	47% Non-fibrous (other)	3% Chrysotile

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Sample	Location	Appearance	<u>Non-Asbestos</u>			<u>Asbestos</u>
			%	Fibrous	% Non-Fibrous	% Type
204-3 180701334-0073	Lanol. - 1st Fl BR	Various Fibrous Heterogeneous	30%	Cellulose	50% Non-fibrous (other)	None Detected
204-3a 180701334-0074	Lanol. - 1st Fl BR - mastic	No Mastic				Not Analyzed
204-4 180701334-0075	2x4 CT - 2nd Fl Middle Rm	Various Fibrous Heterogeneous	80%	Cellulose	20% Non-fibrous (other)	None Detected
204-5 180701334-0076	2x4 CT - 2nd Fl Kitchen	Various Fibrous Heterogeneous	80%	Cellulose	20% Non-fibrous (other)	None Detected
204-6 180701334-0077	Lanol. - 2nd Fl Kitchen	Various Fibrous Heterogeneous	40%	Cellulose	50% Non-fibrous (other)	None Detected
204-6a 180701334-0078	Lanol. - 2nd Fl Kitchen- mastic	Tan Non-Fibrous Homogeneous	5%	Cellulose	95% Non-fibrous (other)	None Detected
204-7 180701334-0079	2x4x CT - 3rd Fl	Tan Fibrous Heterogeneous	80%	Cellulose	20% Non-fibrous (other)	None Detected
206-1 180701334-0080	12x12 FT- Blk & White - 1st Fl	Various Non-Fibrous Heterogeneous			100% Non-fibrous (other)	None Detected

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			% Fibrous	% Non-Fibrous	% Type
206-1a 180701334-0081	12x12 FT- Blk & White - 1st FI - mastic	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (other)	<1% Chrysotile
206-2 180701334-0082	12x12 FT- solid Blk - 1st FI	Black Non-Fibrous Heterogeneous		100% Non-fibrous (other)	None Detected
206-2a 180701334-0083	12x12 FT- Solid Blk - 1st FI - mastic				Not Submitted
206-3 180701334-0084	12x12 FT- Solid Blk - 2nd FI -	Black Non-Fibrous Heterogeneous		100% Non-fibrous (other)	None Detected
206-3a 180701334-0085	12x12 FT- Solid Blk - 2nd FI - mastic	Beige Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
206-4 180701334-0086	12x12 FT- Blk & White - 2nd FI -	Various Non-Fibrous Heterogeneous		100% Non-fibrous (other)	None Detected
206-4a 180701334-0087	12x12 FT- Blk & White - 2nd FI - mastic	Beige Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
206-5 180701334-0088	12x12 FT- White - 2nd FI -	Various Non-Fibrous Heterogeneous		100% Non-fibrous (other)	None Detected

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EMSL Order: 180701334

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Project: **07214 / York NWT**

EMSL Proj:
Analysis Date: 8/8/2007
Report Date: 8/9/2007

Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

Sample	Location	Appearance	<u>Non-Asbestos</u>		<u>Asbestos</u>
			% Fibrous	% Non-Fibrous	% Type
206-5a 180701334-0089	12x12 FT - White - 2nd Fl - mastic	Yellow Non-Fibrous Homogeneous	3% Cellulose	97% Non-fibrous (other)	None Detected
206-6 180701334-0090	12x12 FT - Solid Blk - 3rd Fl	Black Non-Fibrous Heterogeneous		100% Non-fibrous (other)	None Detected
206-6a 180701334-0091	12x12 FT - Solid Blk - 3rd Fl - mastic	Beige Non-Fibrous Homogeneous	2% Cellulose	98% Non-fibrous (other)	None Detected
TS-1 180701334-0092	9x9 FT - Front Rm	Tan Non-Fibrous Heterogeneous		98% Non-fibrous (other)	2% Chrysotile
TS-1a 180701334-0093	9x9 FT - Front Rm - mastic	Black Non-Fibrous Heterogeneous		93% Non-fibrous (other)	7% Chrysotile
TS-1A 180701334-0093A	9x9 FT - Front Rm - mastic	Blue Non-Fibrous Heterogeneous		90% Non-fibrous (other)	10% Chrysotile
TS-1AA 180701334-0093B	9x9 FT - Front Rm - mastic	Black Non-Fibrous Homogeneous		92% Non-fibrous (other)	8% Chrysotile
TS-2 180701334-0094	2x4 CT - Front Rm	Various Fibrous Heterogeneous	90% Min. Wool	10% Non-fibrous (other)	None Detected

Analyst(s)

Robert Privette (109)

R. Privette, Laboratory Manager
or other approved signatory

Due to magnification limitations inherent in PLM, asbestos fibers in dimensions below the resolution capability of PLM may not be detected. Samples reported as <1% or none detected may require additional testing by TEM to confirm asbestos quantities. The above test report relates only to the items tested and may not be reproduced in any form without the express written approval of EMSL Analytical, Inc. EMSL's liability is limited to the cost of analysis. EMSL bears no responsibility for sample collection activities or analytical method limitations. Interpretation and use of test results are the responsibility of the client. Samples received in good condition unless otherwise noted.

Analysis performed by EMSL Plymouth Meeting (NVLAP #200699-0)

**EMSL Analytical, Inc.**

521 Plymouth Road, Suite 107, Plymouth Meeting, PA 19462

Phone: Fax: Email: plymouthmeetinglab@emsl.com

Attn: **Mark Heisey**
ARM Group, Inc.
1129 West Governor Road PO Box 797
Hershey, PA 17033-0797

Customer ID: ARMG93
Customer PO:
Received: 07/30/07 9:16 AM
EMSL Order: 180701334

Fax: (717) 533-8605 Phone: (717) 533-8600
Project: **07214 / York NWT**

EMSL Proj:
Analysis Date: 8/8/2007
Report Date: 8/9/2007

Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

Sample	Location	Appearance	<u>Non-Asbestos</u>		<u>Asbestos</u>
			% Fibrous	% Non-Fibrous	% Type
TS-3 180701334-0095	9x9 FT - White - 2nd FI	Gray Non-Fibrous Heterogeneous		92% Non-fibrous (other)	8% Chrysotile
TS-3a 180701334-0096	9x9 FT - White - 2nd FI - mastic	Black Non-Fibrous Heterogeneous	1% Cellulose	99% Non-fibrous (other)	<1% Chrysotile
TS-4a 180701334-0097	9x9 FT - Red - 2nd FI	Red Non-Fibrous Heterogeneous		90% Non-fibrous (other)	10% Chrysotile
TS-4a 180701334-0098	9x9 FT - Red - 2nd FI - mastic	Black Non-Fibrous Heterogeneous	1% Cellulose	93% Non-fibrous (other)	6% Chrysotile
TS-5 180701334-0099	12x12 CT - 2nd FI	Various Fibrous Heterogeneous	95% Cellulose	5% Non-fibrous (other)	None Detected
TS-5a 180701334-0100	12x12 CT - 2nd FI - mastic	Brown Fibrous Homogeneous	2% Cellulose	98% Non-fibrous (other)	None Detected
TS-6 180701334-0101	12x12 FT Blue - 1st FI Rear	Blue Non-Fibrous Heterogeneous		100% Non-fibrous (other)	None Detected
TS-6a 180701334-0102	12x12 FT Blue - 1st FI Rear mastic	Tan Non-Fibrous Homogeneous	1% Cellulose	99% Non-fibrous (other)	None Detected

Analyst(s)

Robert Privette (109)

R. Privette, Laboratory Manager
or other approved signatory

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Phone: Fax: Email: plymouthmeetinglab@emsl.com

Attn: **Mark Heisey**
ARM Group, Inc.
1129 West Governor Road PO Box 797
Hershey, PA 17033-0797

Customer ID: ARMG93
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Received: 07/30/07 9:16 AM
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Fax: (717) 533-8605 Phone: (717) 533-8600
Project: **07214 / York NWT**

EMSL Proj:
Analysis Date: 8/8/2007
Report Date: 8/9/2007

Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

Sample	Location	Appearance	<u>Non-Asbestos</u>		<u>Asbestos</u>
			%	Fibrous	% Type
TS-7 180701334-0103	2x4 CT - 1st FI Rear	Various Fibrous Heterogeneous	40%	Cellulose 20% Min. Wool	40% Non-fibrous (other) None Detected
TS-8 180701334-0104	12x12 FT Red - 1st FI Rear	Red Non-Fibrous Heterogeneous			100% Non-fibrous (other) None Detected
TS-8a 180701334-0105	12x12 FT Red - 1st FI Rear - mastic	Black Non-Fibrous Homogeneous	5%	Cellulose	90% Non-fibrous (other) 5% Chrysotile
TS-9 180701334-0106	12x12 FT Tan - 1st FI Rear	Tan Non-Fibrous Heterogeneous			100% Non-fibrous (other) None Detected
TS-9a 180701334-0107	12x12 FT Tan - 1st FI Rear - mastic	Black Non-Fibrous Heterogeneous	1%	Cellulose	97% Non-fibrous (other) 2% Chrysotile

Analyst(s)

Robert Privette (109)

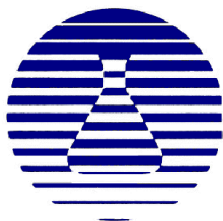
R. Privette, Laboratory Manager
or other approved signatory

Due to magnification limitations inherent in PLM, asbestos fibers in dimensions below the resolution capability of PLM may not be detected. Samples reported as <1% or none detected may require additional testing by TEM to confirm asbestos quantities. The above test report relates only to the items tested and may not be reproduced in any form without the express written approval of EMSL Analytical, Inc. EMSL's liability is limited to the cost of analysis. EMSL bears no responsibility for sample collection activities or analytical method limitations. Interpretation and use of test results are the responsibility of the client. Samples received in good condition unless otherwise noted.

Analysis performed by EMSL Plymouth Meeting (NVLAP #200699-0)

APPENDIX B

Laboratory Analytical Results



**ANALYTICAL
LABORATORY
SERVICES, INC.**

www.analyticallab.com
NELAP Accredited
PA 22-293
NJ PA010 NY 11759



34 Dogwood Lane - Middletown, PA 17057 Phone: 717-944-5541 Fax: 717-944-1430

Certificate of Analysis

August 1, 2007

Mr. Dan Buterbaugh
ARM Group Inc.
1129 W. Governor Road
Hershey, PA 17033

Lab ID#: **9693983**

Page: 1 Of 76

Project Name: **YORK RDA - NORTHWEST TRIANGLE**
Workorder ID: **Soils-8260B, 8270C, PCBs, Metals**

PO#: 07214

This report relates only to the sample(s) as received by the laboratory. Laboratory reports may not be reproduced, except in full, without the written approval of the Laboratory.

ALSI is a NELAC accredited laboratory. ALSI certifies that all applicable test results meet the requirements of NELAC. All drinking water and wastewater analyses comply with the methodology requirements of 40 CFR Parts 141 and 136 respectively. For an inventory of our NELAC accreditations and Scope of Work, please visit our website at www.analyticallab.com or contact your ALSI project coordinator for a complete listing. If you have any questions in reference to this laboratory report, please contact your ALSI project coordinator or the laboratory manager listed at the bottom of this report at 717-944-5541.

Unless otherwise noted, all quantitative results for soils are reported on a dry weight basis. Samples collected by ALSI personnel are done so in accordance with the procedures set forth in the ALSI Field Sampling Plan.

A result of ND indicates that the analyte was Not Detected at the Reporting Detection Limit (RDL). The RDL, by default, is equivalent to the Practical Quantitation Limit (PQL) or may be equivalent to the Method Detection Limit (MDL), if specifically requested by the customer.

Qualifier Flags - These flags may follow individual results for a specific analyte

U - Indicates that the analyte was not detected

J - Indicates an estimated value between the MDL and PQL

Note: This cover letter and the attached Chain-of-Custody document is included as part of the Analytical Report and must be retained as a permanent record thereof.

Raymond J. Martrano
Laboratory Manager



Certificate of Analysis

August 1, 2007

Mr. Dan Buterbaugh
ARM Group Inc.
1129 W. Governor Road
Hershey, PA 17033

Lab ID #: **9693983001**
Received: 07/17/07 16:30
Discard: 08/15/07

Page: 2 Of 76

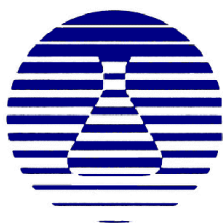
Project Name: **YORK RDA - NORTHWEST TRIANGLE**
Workorder ID: **Soils-8260B, 8270C, PCBs, Metals**

PO#: 07214
COC Number:

Sample ID: **A-1-SS1[6]**
Date Collected: 07/17/07 13:45

Matrix: Solid
Collected by: Mr. Dan Buterbaugh

Analysis Parameter	Result	Units	RDL	Method	Completed	Prep Date	By	Cntr
VOLATILE ORGANICS								
Acetone	ND	ug/kg	23.4	8260/5035	07/19/07 02:25	07/17/07	ECR	B
Benzene	ND	ug/kg	1.9	8260/5035	07/19/07 02:25	07/17/07	ECR	B
Bromochloromethane	ND	ug/kg	1.9	8260/5035	07/19/07 02:25	07/17/07	ECR	B
Bromodichloromethane	ND	ug/kg	1.9	8260/5035	07/19/07 02:25	07/17/07	ECR	B
Bromoform	ND	ug/kg	1.9	8260/5035	07/19/07 02:25	07/17/07	ECR	B
Bromomethane	ND	ug/kg	3.8	8260/5035	07/19/07 02:25	07/17/07	ECR	B
2-Butanone	ND	ug/kg	9.4	8260/5035	07/19/07 02:25	07/17/07	ECR	B
Carbon Disulfide	ND	ug/kg	1.9	8260/5035	07/19/07 02:25	07/17/07	ECR	B
Carbon Tetrachloride	ND	ug/kg	1.9	8260/5035	07/19/07 02:25	07/17/07	ECR	B
Chlorobenzene	ND	ug/kg	1.9	8260/5035	07/19/07 02:25	07/17/07	ECR	B
Chlorodibromomethane	ND	ug/kg	1.9	8260/5035	07/19/07 02:25	07/17/07	ECR	B
Chloroethane	ND	ug/kg	1.9	8260/5035	07/19/07 02:25	07/17/07	ECR	B
Chloroform	ND	ug/kg	1.9	8260/5035	07/19/07 02:25	07/17/07	ECR	B
Chloromethane	ND	ug/kg	1.9	8260/5035	07/19/07 02:25	07/17/07	ECR	B
1,2-Dibromo-3-chloropropane	ND	ug/kg	3.8	8260/5035	07/19/07 02:25	07/17/07	ECR	B
1,2-Dibromoethane	ND	ug/kg	1.9	8260/5035	07/19/07 02:25	07/17/07	ECR	B
1,1-Dichloroethane	ND	ug/kg	1.9	8260/5035	07/19/07 02:25	07/17/07	ECR	B
1,2-Dichloroethane	ND	ug/kg	1.9	8260/5035	07/19/07 02:25	07/17/07	ECR	B
1,1-Dichloroethene	ND	ug/kg	1.9	8260/5035	07/19/07 02:25	07/17/07	ECR	B
cis-1,2-Dichloroethene	ND	ug/kg	1.9	8260/5035	07/19/07 02:25	07/17/07	ECR	B



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1129 W. Governor Road
Hershey, PA 17033

Lab ID #: **9693983001**
Received: 07/17/07 16:30
Discard: 08/15/07

Page: 3 Of 76

Project Name: **YORK RDA - NORTHWEST TRIANGLE**
Workorder ID: **Soils-8260B, 8270C, PCBs, Metals**

PO#: 07214
COC Number:

Sample ID: **A-1-SS1[6]**

Matrix: Solid

Date Collected: 07/17/07 13:45

Collected by: Mr. Dan Buterbaugh

Analysis Parameter	Result	Units	RDL	Method	Completed	Prep Date	By	Cntr
VOLATILE ORGANICS (continued)								
trans-1,2-Dichloroethene	ND	ug/kg	1.9	8260/5035	07/19/07 02:25	07/17/07	ECR	B
1,2-Dichloropropane	ND	ug/kg	1.9	8260/5035	07/19/07 02:25	07/17/07	ECR	B
cis-1,3-Dichloropropene	ND	ug/kg	1.9	8260/5035	07/19/07 02:25	07/17/07	ECR	B
trans-1,3-Dichloropropene	ND	ug/kg	1.9	8260/5035	07/19/07 02:25	07/17/07	ECR	B
Ethylbenzene	ND	ug/kg	1.9	8260/5035	07/19/07 02:25	07/17/07	ECR	B
2-Hexanone	ND	ug/kg	9.4	8260/5035	07/19/07 02:25	07/17/07	ECR	B
4-Methyl-2-Pentanone(MIBK)	ND	ug/kg	9.4	8260/5035	07/19/07 02:25	07/17/07	ECR	B
Methylene Chloride	ND	ug/kg	1.9	8260/5035	07/19/07 02:25	07/17/07	ECR	B
Styrene	ND	ug/kg	1.9	8260/5035	07/19/07 02:25	07/17/07	ECR	B
1,1,2,2-Tetrachloroethane	ND	ug/kg	1.9	8260/5035	07/19/07 02:25	07/17/07	ECR	B
Tetrachloroethene	ND	ug/kg	1.9	8260/5035	07/19/07 02:25	07/17/07	ECR	B
Toluene	ND	ug/kg	1.9	8260/5035	07/19/07 02:25	07/17/07	ECR	B
Total Xylenes	ND	ug/kg	5.6	8260/5035	07/19/07 02:25	07/17/07	ECR	B
1,1,1-Trichloroethane	ND	ug/kg	1.9	8260/5035	07/19/07 02:25	07/17/07	ECR	B
1,1,2-Trichloroethane	ND	ug/kg	1.9	8260/5035	07/19/07 02:25	07/17/07	ECR	B
Trichloroethene	ND	ug/kg	1.9	8260/5035	07/19/07 02:25	07/17/07	ECR	B
Vinyl Chloride	ND	ug/kg	1.9	8260/5035	07/19/07 02:25	07/17/07	ECR	B
o-Xylene	ND	ug/kg	1.9	8260/5035	07/19/07 02:25	07/17/07	ECR	B
mp-Xylene	ND	ug/kg	3.8	8260/5035	07/19/07 02:25	07/17/07	ECR	B



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1129 W. Governor Road
Hershey, PA 17033

Lab ID #: **9693983001**
Received: 07/17/07 16:30
Discard: 08/15/07

Page: 4 Of 76

Project Name: **YORK RDA - NORTHWEST TRIANGLE**
Workorder ID: **Soils-8260B, 8270C, PCBs, Metals**

PO#: 07214
COC Number:

Sample ID: **A-1-SS1[6]**

Matrix: Solid

Date Collected: 07/17/07 13:45

Collected by: Mr. Dan Buterbaugh

Analysis Parameter	Result	Units	RDL	Method	Completed	Prep Date	By	Cntr
SEMIVOLATILES								
Acenaphthene	ND	ug/kg	143	SW846 8270C	07/31/07 10:30	07/24/07	DRS	D2
Acenaphthylene	315	ug/kg	143	SW846 8270C	07/31/07 10:30	07/24/07	DRS	D2
Anthracene	ND	ug/kg	143	SW846 8270C	07/31/07 10:30	07/24/07	DRS	D2
Benzo(a)anthracene	528	ug/kg	143	SW846 8270C	07/31/07 10:30	07/24/07	DRS	D2
Benzo(a)pyrene	893	ug/kg	143	SW846 8270C	07/31/07 10:30	07/24/07	DRS	D2
Benzo(b)fluoranthene	766	ug/kg	143	SW846 8270C	07/31/07 10:30	07/24/07	DRS	D2
Benzo(g,h,i)perylene	609	ug/kg	143	SW846 8270C	07/31/07 10:30	07/24/07	DRS	D2
Benzo(k)fluoranthene	806	ug/kg	143	SW846 8270C	07/31/07 10:30	07/24/07	DRS	D2
4-Bromophenyl-phenylether	ND	ug/kg	205	SW846 8270C	07/31/07 10:30	07/24/07	DRS	D2
Butylbenzylphthalate	ND	ug/kg	205	SW846 8270C	07/31/07 10:30	07/24/07	DRS	D2
Carbazole	ND	ug/kg	205	SW846 8270C	07/31/07 10:30	07/24/07	DRS	D2
4-Chloro-3-methylphenol	ND	ug/kg	552	SW846 8270C	07/31/07 10:30	07/24/07	DRS	D2
4-Chloroaniline	ND	ug/kg	552	SW846 8270C	07/31/07 10:30	07/24/07	DRS	D2
Bis(2-Chloroethoxy)methane	ND	ug/kg	205	SW846 8270C	07/31/07 10:30	07/24/07	DRS	D2
Bis(2-Chloroethyl)ether	ND	ug/kg	205	SW846 8270C	07/31/07 10:30	07/24/07	DRS	D2
bis(2-Chloroisopropyl)ether	ND	ug/kg	205	SW846 8270C	07/31/07 10:30	07/24/07	DRS	D2
2-Chloronaphthalene	ND	ug/kg	205	SW846 8270C	07/31/07 10:30	07/24/07	DRS	D2
2-Chlorophenol	ND	ug/kg	552	SW846 8270C	07/31/07 10:30	07/24/07	DRS	D2
4-Chlorophenyl-phenylether	ND	ug/kg	205	SW846 8270C	07/31/07 10:30	07/24/07	DRS	D2
Chrysene	647	ug/kg	143	SW846 8270C	07/31/07 10:30	07/24/07	DRS	D2



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Hershey, PA 17033

Lab ID #: **9693983001**
Received: 07/17/07 16:30
Discard: 08/15/07

Page: 5 Of 76

Project Name: **YORK RDA - NORTHWEST TRIANGLE**
Workorder ID: **Soils-8260B, 8270C, PCBs, Metals**

PO#: 07214
COC Number:

Sample ID: **A-1-SS1[6]**
Date Collected: 07/17/07 13:45

Matrix: Solid
Collected by: Mr. Dan Buterbaugh

Analysis Parameter	Result	Units	RDL	Method	Completed	Prep Date	By	Cntr
SEMIVOLATILES (continued)								
mp-Cresol	ND	ug/kg	552	SW846 8270C	07/31/07 10:30	07/24/07	DRS	D2
o-Cresol	ND	ug/kg	552	SW846 8270C	07/31/07 10:30	07/24/07	DRS	D2
Di-n-Butylphthalate	ND	ug/kg	205	SW846 8270C	07/31/07 10:30	07/24/07	DRS	D2
Di-n-Octylphthalate	ND	ug/kg	552	SW846 8270C	07/31/07 10:30	07/24/07	DRS	D2
Dibenzo(a,h)anthracene	190	ug/kg	143	SW846 8270C	07/31/07 10:30	07/24/07	DRS	D2
Dibenzofuran	ND	ug/kg	205	SW846 8270C	07/31/07 10:30	07/24/07	DRS	D2
1,2-Dichlorobenzene	ND	ug/kg	205	SW846 8270C	07/31/07 10:30	07/24/07	DRS	D2
1,3-Dichlorobenzene	ND	ug/kg	205	SW846 8270C	07/31/07 10:30	07/24/07	DRS	D2
1,4-Dichlorobenzene	ND	ug/kg	205	SW846 8270C	07/31/07 10:30	07/24/07	DRS	D2
3,3-Dichlorobenzidine	ND	ug/kg	205	SW846 8270C	07/31/07 10:30	07/24/07	DRS	D2
2,4-Dichlorophenol	ND	ug/kg	552	SW846 8270C	07/31/07 10:30	07/24/07	DRS	D2
Diethylphthalate	ND	ug/kg	205	SW846 8270C	07/31/07 10:30	07/24/07	DRS	D2
2,4-Dimethylphenol	ND	ug/kg	552	SW846 8270C	07/31/07 10:30	07/24/07	DRS	D2
Dimethylphthalate	ND	ug/kg	205	SW846 8270C	07/31/07 10:30	07/24/07	DRS	D2
2,4-Dinitrophenol	ND	ug/kg	1100	SW846 8270C	07/31/07 10:30	07/24/07	DRS	D2
2,4-Dinitrotoluene	ND	ug/kg	205	SW846 8270C	07/31/07 10:30	07/24/07	DRS	D2
2,6-Dinitrotoluene	ND	ug/kg	205	SW846 8270C	07/31/07 10:30	07/24/07	DRS	D2
bis(2-Ethylhexyl)phthalate	ND	ug/kg	205	SW846 8270C	07/31/07 10:30	07/24/07	DRS	D2
Fluoranthene	709	ug/kg	143	SW846 8270C	07/31/07 10:30	07/24/07	DRS	D2
Fluorene	ND	ug/kg	143	SW846 8270C	07/31/07 10:30	07/24/07	DRS	D2



Certificate of Analysis

August 1, 2007

Mr. Dan Buterbaugh
ARM Group Inc.
1129 W. Governor Road
Hershey, PA 17033

Lab ID #: **9693983001**
Received: 07/17/07 16:30
Discard: 08/15/07

Page: 6 Of 76

Project Name: **YORK RDA - NORTHWEST TRIANGLE**
Workorder ID: **Soils-8260B, 8270C, PCBs, Metals**

PO#: 07214
COC Number:

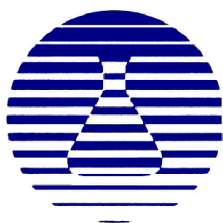
Sample ID: **A-1-SS1[6]**

Matrix: Solid

Date Collected: 07/17/07 13:45

Collected by: Mr. Dan Buterbaugh

Analysis Parameter	Result	Units	RDL	Method	Completed	Prep Date	By	Cntr
SEMIVOLATILES (continued)								
Hexachlorobenzene	ND	ug/kg	205	SW846 8270C	07/31/07 10:30	07/24/07	DRS	D2
Hexachlorobutadiene	ND	ug/kg	205	SW846 8270C	07/31/07 10:30	07/24/07	DRS	D2
Hexachlorocyclopentadiene	ND	ug/kg	552	SW846 8270C	07/31/07 10:30	07/24/07	DRS	D2
Hexachloroethane	ND	ug/kg	205	SW846 8270C	07/31/07 10:30	07/24/07	DRS	D2
Indeno(1,2,3-cd)pyrene	668	ug/kg	143	SW846 8270C	07/31/07 10:30	07/24/07	DRS	D2
Isophorone	ND	ug/kg	205	SW846 8270C	07/31/07 10:30	07/24/07	DRS	D2
2-Methyl-4,6-dinitrophenol	ND	ug/kg	552	SW846 8270C	07/31/07 10:30	07/24/07	DRS	D2
2-Methylnaphthalene	ND	ug/kg	143	SW846 8270C	07/31/07 10:30	07/24/07	DRS	D2
Naphthalene	ND	ug/kg	143	SW846 8270C	07/31/07 10:30	07/24/07	DRS	D2
2-Nitroaniline	ND	ug/kg	205	SW846 8270C	07/31/07 10:30	07/24/07	DRS	D2
3-Nitroaniline	ND	ug/kg	552	SW846 8270C	07/31/07 10:30	07/24/07	DRS	D2
4-Nitroaniline	ND	ug/kg	552	SW846 8270C	07/31/07 10:30	07/24/07	DRS	D2
Nitrobenzene	ND	ug/kg	205	SW846 8270C	07/31/07 10:30	07/24/07	DRS	D2
2-Nitrophenol	ND	ug/kg	552	SW846 8270C	07/31/07 10:30	07/24/07	DRS	D2
4-Nitrophenol	ND	ug/kg	1100	SW846 8270C	07/31/07 10:30	07/24/07	DRS	D2
N-Nitroso-di-n-propylamine	ND	ug/kg	205	SW846 8270C	07/31/07 10:30	07/24/07	DRS	D2
N-Nitrosodiphenylamine	ND	ug/kg	205	SW846 8270C	07/31/07 10:30	07/24/07	DRS	D2
Pentachlorophenol	ND	ug/kg	1100	SW846 8270C	07/31/07 10:30	07/24/07	DRS	D2
Phenanthrene	173	ug/kg	143	SW846 8270C	07/31/07 10:30	07/24/07	DRS	D2
Phenol	ND	ug/kg	552	SW846 8270C	07/31/07 10:30	07/24/07	DRS	D2



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Mr. Dan Buterbaugh
ARM Group Inc.
1129 W. Governor Road
Hershey, PA 17033

Lab ID #: **9693983001**
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Discard: 08/15/07

Page: 7 Of 76

Project Name: **YORK RDA - NORTHWEST TRIANGLE**
Workorder ID: **Soils-8260B, 8270C, PCBs, Metals**

PO#: 07214
COC Number:

Sample ID: **A-1-SS1[6]**

Matrix: Solid

Date Collected: 07/17/07 13:45

Collected by: Mr. Dan Buterbaugh

Analysis Parameter	Result	Units	RDL	Method	Completed	Prep Date	By	Cntr
SEMIVOLATILES (continued)								
Pyrene	810	ug/kg	143	SW846 8270C	07/31/07 10:30	07/24/07	DRS	D2
1,2,4-Trichlorobenzene	ND	ug/kg	205	SW846 8270C	07/31/07 10:30	07/24/07	DRS	D2
2,4,5-Trichlorophenol	ND	ug/kg	552	SW846 8270C	07/31/07 10:30	07/24/07	DRS	D2
2,4,6-Trichlorophenol	ND	ug/kg	552	SW846 8270C	07/31/07 10:30	07/24/07	DRS	D2
PCB'S								
Aroclor-1016	ND	mg/kg	0.034	SW846 8082	07/24/07 06:59	07/20/07	JJH	D1
Aroclor-1221	ND	mg/kg	0.034	SW846 8082	07/24/07 06:59	07/20/07	JJH	D1
Aroclor-1232	ND	mg/kg	0.034	SW846 8082	07/24/07 06:59	07/20/07	JJH	D1
Aroclor-1242	ND	mg/kg	0.034	SW846 8082	07/24/07 06:59	07/20/07	JJH	D1
Aroclor-1248	ND	mg/kg	0.034	SW846 8082	07/24/07 06:59	07/20/07	JJH	D1
Aroclor-1254	ND	mg/kg	0.034	SW846 8082	07/24/07 06:59	07/20/07	JJH	D1
Aroclor-1260	ND	mg/kg	0.034	SW846 8082	07/24/07 06:59	07/20/07	JJH	D1
WET CHEMISTRY								
Moisture	2.9	%	0.1	SM20-2540 G	07/18/07 05:15	07/18/07	KMW	D
Total Solids	97.1	%	0.1	SM20-2540 G	07/18/07 05:15	07/18/07	KMW	D



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Page: 8 Of 76

Project Name: **YORK RDA - NORTHWEST TRIANGLE**
Workorder ID: **Soils-8260B, 8270C, PCBs, Metals**

PO#: 07214
COC Number:

Sample ID: **A-1-SS1[6]**

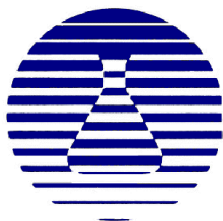
Matrix: Solid

Date Collected: 07/17/07 13:45

Collected by: Mr. Dan Buterbaugh

Analysis Parameter	Result	Units	RDL	Method	Completed	Prep Date	By	Cntr
METALS								
Arsenic, Total	ND	mg/kg	24	SW846 6010B	07/27/07 13:29	07/25/07	JWK	D
Barium, Total	12	mg/kg	9	SW846 6010B	07/27/07 13:29	07/25/07	JWK	D
Cadmium, Total	ND	mg/kg	4.7	SW846 6010B	07/27/07 13:29	07/25/07	JWK	D
Chromium, Total	ND	mg/kg	9.4	SW846 6010B	07/27/07 13:29	07/25/07	JWK	D
Lead, Total	55	mg/kg	9	SW846 6010B	07/27/07 13:29	07/25/07	JWK	D
Mercury, Total	ND	mg/kg	0.19	SW846 7471B	07/29/07 20:52	07/27/07	AGM	D3
Selenium, Total ¹	ND	mg/kg	47	SW846 6010B	07/27/07 13:29	07/25/07	JWK	D
Silver, Total	ND	mg/kg	4.7	SW846 6010B	07/27/07 13:29	07/25/07	JWK	D
Surrogates								
	Result	Units	Recovery	Limits				
2,4,6-Tribromophenol	2150	ug/kg	65.0%	(24 - 130)				
1,2-Dichloroethane-d4	23.7	ug/kg	87.0%	(56 - 124)				
Dibromofluoromethane	23.6	ug/kg	86.0%	(62 - 123)				
Toluene-d8	25	ug/kg	92.0%	(59 - 131)				
Decachlorobiphenyl	.084	mg/kg	101.0%	(30 - 150)				
2-Fluorobiphenyl	1080	ug/kg	65.0%	(40 - 113)				
2-Fluorophenol	2000	ug/kg	60.0%	(25 - 110)				
Nitrobenzene-d5	1030	ug/kg	62.0%	(36 - 113)				
Phenol-d5	2180	ug/kg	66.0%	(28 - 111)				
4-Bromofluorobenzene	26.3	ug/kg	96.0%	(51 - 128)				

¹ - The recovery of the Matrix Spike (MS) associated to this analyte was outside of the established control limits. The sample was post-digestion spiked, and this matrix spike was within acceptable recovery limits.



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Lab ID #: **9693983001**
Received: 07/17/07 16:30
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Page: 9 Of 76

Project Name: **YORK RDA - NORTHWEST TRIANGLE**
Workorder ID: **Soils-8260B, 8270C, PCBs, Metals**

PO#: 07214
COC Number:

Sample ID: **A-1-SS1[6]**
Date Collected: 07/17/07 13:45

Matrix: Solid
Collected by: Mr. Dan Buterbaugh

Surrogates (continued)	Result	Units	Recovery	Limits
Tetrachloro-m-xylene	.092	mg/kg	111.0%	(30 - 136)
Terphenyl-d14	1120	ug/kg	68.0%	(35 - 135)

Comments:

One or more of the method 8260 internal standards were recovered outside of the control limits. The sample was re-analyzed with similar results, indicating a significant matrix interference.

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

Raymond J. Martrano
Laboratory Manager



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August 1, 2007

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1129 W. Governor Road
Hershey, PA 17033

Lab ID #: **9693983002**
Received: 07/17/07 16:30
Discard: 08/15/07

Page: 10 Of 76

Project Name: **YORK RDA - NORTHWEST TRIANGLE**
Workorder ID: **Soils-8260B, 8270C, PCBs, Metals**

PO#: 07214
COC Number:

Sample ID: **A-1-SS2[6]**

Matrix: Solid

Date Collected: 07/17/07 14:15

Collected by: Mr. Dan Buterbaugh

Analysis Parameter	Result	Units	RDL	Method	Completed	Prep Date	By	Cntr
VOLATILE ORGANICS								
Acetone	33.0	ug/kg	20.5	8260/5035	07/19/07 02:56	07/17/07	ECR	B
Benzene	ND	ug/kg	1.6	8260/5035	07/19/07 02:56	07/17/07	ECR	B
Bromochloromethane	ND	ug/kg	1.6	8260/5035	07/19/07 02:56	07/17/07	ECR	B
Bromodichloromethane	ND	ug/kg	1.6	8260/5035	07/19/07 02:56	07/17/07	ECR	B
Bromoform	ND	ug/kg	1.6	8260/5035	07/19/07 02:56	07/17/07	ECR	B
Bromomethane	ND	ug/kg	3.3	8260/5035	07/19/07 02:56	07/17/07	ECR	B
2-Butanone	12.5	ug/kg	8.2	8260/5035	07/19/07 02:56	07/17/07	ECR	B
Carbon Disulfide	ND	ug/kg	1.6	8260/5035	07/19/07 02:56	07/17/07	ECR	B
Carbon Tetrachloride	ND	ug/kg	1.6	8260/5035	07/19/07 02:56	07/17/07	ECR	B
Chlorobenzene	ND	ug/kg	1.6	8260/5035	07/19/07 02:56	07/17/07	ECR	B
Chlorodibromomethane	ND	ug/kg	1.6	8260/5035	07/19/07 02:56	07/17/07	ECR	B
Chloroethane	ND	ug/kg	1.6	8260/5035	07/19/07 02:56	07/17/07	ECR	B
Chloroform	ND	ug/kg	1.6	8260/5035	07/19/07 02:56	07/17/07	ECR	B
Chloromethane	ND	ug/kg	1.6	8260/5035	07/19/07 02:56	07/17/07	ECR	B
1,2-Dibromo-3-chloropropane	ND	ug/kg	3.3	8260/5035	07/19/07 02:56	07/17/07	ECR	B
1,2-Dibromoethane	ND	ug/kg	1.6	8260/5035	07/19/07 02:56	07/17/07	ECR	B
1,1-Dichloroethane	ND	ug/kg	1.6	8260/5035	07/19/07 02:56	07/17/07	ECR	B
1,2-Dichloroethane	ND	ug/kg	1.6	8260/5035	07/19/07 02:56	07/17/07	ECR	B
1,1-Dichloroethene	ND	ug/kg	1.6	8260/5035	07/19/07 02:56	07/17/07	ECR	B
cis-1,2-Dichloroethene	ND	ug/kg	1.6	8260/5035	07/19/07 02:56	07/17/07	ECR	B



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Page: 11 Of 76

Project Name: **YORK RDA - NORTHWEST TRIANGLE**
Workorder ID: **Soils-8260B, 8270C, PCBs, Metals**

PO#: 07214
COC Number:

Sample ID: **A-1-SS2[6]**

Matrix: Solid

Date Collected: 07/17/07 14:15

Collected by: Mr. Dan Buterbaugh

Analysis Parameter	Result	Units	RDL	Method	Completed	Prep Date	By	Cntr
VOLATILE ORGANICS (continued)								
trans-1,2-Dichloroethene	ND	ug/kg	1.6	8260/5035	07/19/07 02:56	07/17/07	ECR	B
1,2-Dichloropropane	ND	ug/kg	1.6	8260/5035	07/19/07 02:56	07/17/07	ECR	B
cis-1,3-Dichloropropene	ND	ug/kg	1.6	8260/5035	07/19/07 02:56	07/17/07	ECR	B
trans-1,3-Dichloropropene	ND	ug/kg	1.6	8260/5035	07/19/07 02:56	07/17/07	ECR	B
Ethylbenzene	ND	ug/kg	1.6	8260/5035	07/19/07 02:56	07/17/07	ECR	B
2-Hexanone	ND	ug/kg	8.2	8260/5035	07/19/07 02:56	07/17/07	ECR	B
4-Methyl-2-Pentanone(MIBK)	ND	ug/kg	8.2	8260/5035	07/19/07 02:56	07/17/07	ECR	B
Methylene Chloride	ND	ug/kg	1.6	8260/5035	07/19/07 02:56	07/17/07	ECR	B
Styrene	ND	ug/kg	1.6	8260/5035	07/19/07 02:56	07/17/07	ECR	B
1,1,2,2-Tetrachloroethane	ND	ug/kg	1.6	8260/5035	07/19/07 02:56	07/17/07	ECR	B
Tetrachloroethene	ND	ug/kg	1.6	8260/5035	07/19/07 02:56	07/17/07	ECR	B
Toluene	15.4	ug/kg	1.6	8260/5035	07/19/07 02:56	07/17/07	ECR	B
Total Xylenes	ND	ug/kg	4.9	8260/5035	07/19/07 02:56	07/17/07	ECR	B
1,1,1-Trichloroethane	ND	ug/kg	1.6	8260/5035	07/19/07 02:56	07/17/07	ECR	B
1,1,2-Trichloroethane	ND	ug/kg	1.6	8260/5035	07/19/07 02:56	07/17/07	ECR	B
Trichloroethene	ND	ug/kg	1.6	8260/5035	07/19/07 02:56	07/17/07	ECR	B
Vinyl Chloride	ND	ug/kg	1.6	8260/5035	07/19/07 02:56	07/17/07	ECR	B
o-Xylene	ND	ug/kg	1.6	8260/5035	07/19/07 02:56	07/17/07	ECR	B
mp-Xylene	ND	ug/kg	3.3	8260/5035	07/19/07 02:56	07/17/07	ECR	B



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Page: 12 Of 76

Project Name: **YORK RDA - NORTHWEST TRIANGLE**
Workorder ID: **Soils-8260B, 8270C, PCBs, Metals**

PO#: 07214
COC Number:

Sample ID: **A-1-SS2[6]**
Date Collected: 07/17/07 14:15

Matrix: Solid
Collected by: Mr. Dan Buterbaugh

Analysis Parameter	Result	Units	RDL	Method	Completed	Prep Date	By	Cntr
SEMIVOLATILES								
Acenaphthene	ND	ug/kg	71	SW846 8270C	07/28/07 10:59	07/24/07	TTR	D2
Acenaphthylene	71	ug/kg	71	SW846 8270C	07/28/07 10:59	07/24/07	TTR	D2
Anthracene	ND	ug/kg	71	SW846 8270C	07/28/07 10:59	07/24/07	TTR	D2
Benzo(a)anthracene	142	ug/kg	71	SW846 8270C	07/28/07 10:59	07/24/07	TTR	D2
Benzo(a)pyrene	236	ug/kg	71	SW846 8270C	07/28/07 10:59	07/24/07	TTR	D2
Benzo(b)fluoranthene	241	ug/kg	71	SW846 8270C	07/28/07 10:59	07/24/07	TTR	D2
Benzo(g,h,i)perylene	77	ug/kg	71	SW846 8270C	07/28/07 10:59	07/24/07	TTR	D2
Benzo(k)fluoranthene	285	ug/kg	71	SW846 8270C	07/28/07 10:59	07/24/07	TTR	D2
4-Bromophenyl-phenylether	ND	ug/kg	101	SW846 8270C	07/28/07 10:59	07/24/07	TTR	D2
Butylbenzylphthalate	ND	ug/kg	101	SW846 8270C	07/28/07 10:59	07/24/07	TTR	D2
Carbazole	ND	ug/kg	101	SW846 8270C	07/28/07 10:59	07/24/07	TTR	D2
4-Chloro-3-methylphenol	ND	ug/kg	273	SW846 8270C	07/28/07 10:59	07/24/07	TTR	D2
4-Chloroaniline	ND	ug/kg	273	SW846 8270C	07/28/07 10:59	07/24/07	TTR	D2
Bis(2-Chloroethoxy)methane	ND	ug/kg	101	SW846 8270C	07/28/07 10:59	07/24/07	TTR	D2
Bis(2-Chloroethyl)ether	ND	ug/kg	101	SW846 8270C	07/28/07 10:59	07/24/07	TTR	D2
bis(2-Chloroisopropyl)ether	ND	ug/kg	101	SW846 8270C	07/28/07 10:59	07/24/07	TTR	D2
2-Chloronaphthalene	ND	ug/kg	101	SW846 8270C	07/28/07 10:59	07/24/07	TTR	D2
2-Chlorophenol	ND	ug/kg	273	SW846 8270C	07/28/07 10:59	07/24/07	TTR	D2
4-Chlorophenyl-phenylether	ND	ug/kg	101	SW846 8270C	07/28/07 10:59	07/24/07	TTR	D2
Chrysene	210	ug/kg	71	SW846 8270C	07/28/07 10:59	07/24/07	TTR	D2



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Page: 13 Of 76

Project Name: **YORK RDA - NORTHWEST TRIANGLE**
Workorder ID: **Soils-8260B, 8270C, PCBs, Metals**

PO#: 07214
COC Number:

Sample ID: **A-1-SS2[6]**

Matrix: Solid

Date Collected: 07/17/07 14:15

Collected by: Mr. Dan Buterbaugh

Analysis Parameter	Result	Units	RDL	Method	Completed	Prep Date	By	Cntr
SEMIVOLATILES (continued)								
mp-Cresol	ND	ug/kg	273	SW846 8270C	07/28/07 10:59	07/24/07	TTR	D2
o-Cresol	ND	ug/kg	273	SW846 8270C	07/28/07 10:59	07/24/07	TTR	D2
Di-n-Butylphthalate	ND	ug/kg	101	SW846 8270C	07/28/07 10:59	07/24/07	TTR	D2
Di-n-Octylphthalate	ND	ug/kg	273	SW846 8270C	07/28/07 10:59	07/24/07	TTR	D2
Dibenzo(a,h)anthracene	ND	ug/kg	71	SW846 8270C	07/28/07 10:59	07/24/07	TTR	D2
Dibenzofuran	ND	ug/kg	101	SW846 8270C	07/28/07 10:59	07/24/07	TTR	D2
1,2-Dichlorobenzene	ND	ug/kg	101	SW846 8270C	07/28/07 10:59	07/24/07	TTR	D2
1,3-Dichlorobenzene	ND	ug/kg	101	SW846 8270C	07/28/07 10:59	07/24/07	TTR	D2
1,4-Dichlorobenzene	ND	ug/kg	101	SW846 8270C	07/28/07 10:59	07/24/07	TTR	D2
3,3-Dichlorobenzidine	ND	ug/kg	101	SW846 8270C	07/28/07 10:59	07/24/07	TTR	D2
2,4-Dichlorophenol	ND	ug/kg	273	SW846 8270C	07/28/07 10:59	07/24/07	TTR	D2
Diethylphthalate	ND	ug/kg	101	SW846 8270C	07/28/07 10:59	07/24/07	TTR	D2
2,4-Dimethylphenol	ND	ug/kg	273	SW846 8270C	07/28/07 10:59	07/24/07	TTR	D2
Dimethylphthalate	ND	ug/kg	101	SW846 8270C	07/28/07 10:59	07/24/07	TTR	D2
2,4-Dinitrophenol	ND	ug/kg	545	SW846 8270C	07/28/07 10:59	07/24/07	TTR	D2
2,4-Dinitrotoluene	ND	ug/kg	101	SW846 8270C	07/28/07 10:59	07/24/07	TTR	D2
2,6-Dinitrotoluene	ND	ug/kg	101	SW846 8270C	07/28/07 10:59	07/24/07	TTR	D2
bis(2-Ethylhexyl)phthalate	ND	ug/kg	101	SW846 8270C	07/28/07 10:59	07/24/07	TTR	D2
Fluoranthene	253	ug/kg	71	SW846 8270C	07/28/07 10:59	07/24/07	TTR	D2
Fluorene	ND	ug/kg	71	SW846 8270C	07/28/07 10:59	07/24/07	TTR	D2



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Page: 14 Of 76

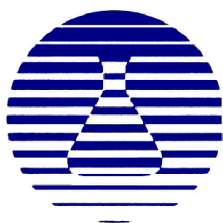
Project Name: **YORK RDA - NORTHWEST TRIANGLE**
Workorder ID: **Soils-8260B, 8270C, PCBs, Metals**

PO#: 07214
COC Number:

Sample ID: **A-1-SS2[6]**
Date Collected: 07/17/07 14:15

Matrix: Solid
Collected by: Mr. Dan Buterbaugh

Analysis Parameter	Result	Units	RDL	Method	Completed	Prep Date	By	Cntr
SEMIVOLATILES (continued)								
Hexachlorobenzene	ND	ug/kg	101	SW846 8270C	07/28/07 10:59	07/24/07	TTR	D2
Hexachlorobutadiene	ND	ug/kg	101	SW846 8270C	07/28/07 10:59	07/24/07	TTR	D2
Hexachlorocyclopentadiene	ND	ug/kg	273	SW846 8270C	07/28/07 10:59	07/24/07	TTR	D2
Hexachloroethane	ND	ug/kg	101	SW846 8270C	07/28/07 10:59	07/24/07	TTR	D2
Indeno(1,2,3-cd)pyrene	108	ug/kg	71	SW846 8270C	07/28/07 10:59	07/24/07	TTR	D2
Isophorone	ND	ug/kg	101	SW846 8270C	07/28/07 10:59	07/24/07	TTR	D2
2-Methyl-4,6-dinitrophenol	ND	ug/kg	273	SW846 8270C	07/28/07 10:59	07/24/07	TTR	D2
2-Methylnaphthalene	ND	ug/kg	71	SW846 8270C	07/28/07 10:59	07/24/07	TTR	D2
Naphthalene	ND	ug/kg	71	SW846 8270C	07/28/07 10:59	07/24/07	TTR	D2
2-Nitroaniline	ND	ug/kg	101	SW846 8270C	07/28/07 10:59	07/24/07	TTR	D2
3-Nitroaniline	ND	ug/kg	273	SW846 8270C	07/28/07 10:59	07/24/07	TTR	D2
4-Nitroaniline	ND	ug/kg	273	SW846 8270C	07/28/07 10:59	07/24/07	TTR	D2
Nitrobenzene	ND	ug/kg	101	SW846 8270C	07/28/07 10:59	07/24/07	TTR	D2
2-Nitrophenol	ND	ug/kg	273	SW846 8270C	07/28/07 10:59	07/24/07	TTR	D2
4-Nitrophenol	ND	ug/kg	545	SW846 8270C	07/28/07 10:59	07/24/07	TTR	D2
N-Nitroso-di-n-propylamine	ND	ug/kg	101	SW846 8270C	07/28/07 10:59	07/24/07	TTR	D2
N-Nitrosodiphenylamine	ND	ug/kg	101	SW846 8270C	07/28/07 10:59	07/24/07	TTR	D2
Pentachlorophenol	ND	ug/kg	545	SW846 8270C	07/28/07 10:59	07/24/07	TTR	D2
Phenanthrene	85	ug/kg	71	SW846 8270C	07/28/07 10:59	07/24/07	TTR	D2
Phenol	ND	ug/kg	273	SW846 8270C	07/28/07 10:59	07/24/07	TTR	D2



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August 1, 2007

Mr. Dan Buterbaugh
ARM Group Inc.
1129 W. Governor Road
Hershey, PA 17033

Lab ID #: **9693983002**
Received: 07/17/07 16:30
Discard: 08/15/07

Page: 15 Of 76

Project Name: **YORK RDA - NORTHWEST TRIANGLE**
Workorder ID: **Soils-8260B, 8270C, PCBs, Metals**

PO#: 07214
COC Number:

Sample ID: **A-1-SS2[6]**

Matrix: Solid

Date Collected: 07/17/07 14:15

Collected by: Mr. Dan Buterbaugh

Analysis Parameter	Result	Units	RDL	Method	Completed	Prep Date	By	Cntr
SEMIVOLATILES (continued)								
Pyrene	254	ug/kg	71	SW846 8270C	07/28/07 10:59	07/24/07	TTR	D2
1,2,4-Trichlorobenzene	ND	ug/kg	101	SW846 8270C	07/28/07 10:59	07/24/07	TTR	D2
2,4,5-Trichlorophenol	ND	ug/kg	273	SW846 8270C	07/28/07 10:59	07/24/07	TTR	D2
2,4,6-Trichlorophenol	ND	ug/kg	273	SW846 8270C	07/28/07 10:59	07/24/07	TTR	D2
PCB'S								
Aroclor-1016	ND	mg/kg	0.034	SW846 8082	07/24/07 07:30	07/20/07	JJH	D1
Aroclor-1221	ND	mg/kg	0.034	SW846 8082	07/24/07 07:30	07/20/07	JJH	D1
Aroclor-1232	ND	mg/kg	0.034	SW846 8082	07/24/07 07:30	07/20/07	JJH	D1
Aroclor-1242	ND	mg/kg	0.034	SW846 8082	07/24/07 07:30	07/20/07	JJH	D1
Aroclor-1248	ND	mg/kg	0.034	SW846 8082	07/24/07 07:30	07/20/07	JJH	D1
Aroclor-1254	ND	mg/kg	0.034	SW846 8082	07/24/07 07:30	07/20/07	JJH	D1
Aroclor-1260	ND	mg/kg	0.034	SW846 8082	07/24/07 07:30	07/20/07	JJH	D1
WET CHEMISTRY								
Moisture	3.6	%	0.1	SM20-2540 G	07/18/07 05:15	07/18/07	KMW	D
Total Solids	96.4	%	0.1	SM20-2540 G	07/18/07 05:15	07/18/07	KMW	D



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Page: 16 Of 76

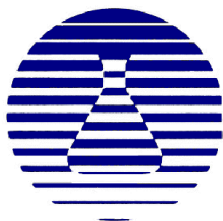
Project Name: **YORK RDA - NORTHWEST TRIANGLE**
Workorder ID: **Soils-8260B, 8270C, PCBs, Metals**

PO#: 07214
COC Number:

Sample ID: **A-1-SS2[6]**
Date Collected: 07/17/07 14:15

Matrix: Solid
Collected by: Mr. Dan Buterbaugh

Analysis Parameter	Result	Units	RDL	Method	Completed	Prep Date	By	Cntr
METALS								
Arsenic, Total	ND	mg/kg	26	SW846 6010B	07/27/07 13:46	07/25/07	JWK	D
Barium, Total	39	mg/kg	10	SW846 6010B	07/27/07 13:46	07/25/07	JWK	D
Cadmium, Total	ND	mg/kg	5.1	SW846 6010B	07/27/07 13:46	07/25/07	JWK	D
Chromium, Total	ND	mg/kg	10.3	SW846 6010B	07/27/07 13:46	07/25/07	JWK	D
Lead, Total	42	mg/kg	10	SW846 6010B	07/27/07 13:46	07/25/07	JWK	D
Mercury, Total	ND	mg/kg	0.19	SW846 7471B	07/29/07 20:56	07/27/07	AGM	D5
Selenium, Total	ND	mg/kg	51	SW846 6010B	07/27/07 13:46	07/25/07	JWK	D
Silver, Total	ND	mg/kg	5.1	SW846 6010B	07/27/07 13:46	07/25/07	JWK	D
Surrogates								
	Result	Units	Recovery	Limits				
2,4,6-Tribromophenol	2020	ug/kg	62.0%	(24 - 130)				
1,2-Dichloroethane-d4	20.3	ug/kg	85.0%	(56 - 124)				
Dibromofluoromethane	20.3	ug/kg	86.0%	(62 - 123)				
Toluene-d8	22.5	ug/kg	95.0%	(59 - 131)				
Decachlorobiphenyl	.074	mg/kg	90.0%	(30 - 150)				
2-Fluorobiphenyl	966	ug/kg	59.0%	(40 - 113)				
2-Fluorophenol	1870	ug/kg	58.0%	(25 - 110)				
Nitrobenzene-d5	984	ug/kg	61.0%	(36 - 113)				
Phenol-d5	2060	ug/kg	63.0%	(28 - 111)				
4-Bromofluorobenzene	25.2	ug/kg	106.0%	(51 - 128)				



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Page: 17 Of 76

Project Name: **YORK RDA - NORTHWEST TRIANGLE**
Workorder ID: **Soils-8260B, 8270C, PCBs, Metals**

PO#: 07214
COC Number:

Sample ID: **A-1-SS2[6]**
Date Collected: 07/17/07 14:15

Matrix: Solid
Collected by: Mr. Dan Buterbaugh

Surrogates (continued)	Result	Units	Recovery	Limits
Tetrachloro-m-xylene	.082	mg/kg	101.0%	(30 - 136)
Terphenyl-d14	997	ug/kg	61.0%	(35 - 135)

Comments:

One or more of the method 8260 internal standards were recovered outside of the control limits. The sample was re-analyzed with similar results, indicating a significant matrix interference.

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

Raymond J. Martrano
Laboratory Manager



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August 1, 2007

Mr. Dan Buterbaugh
ARM Group Inc.
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Hershey, PA 17033

Lab ID #: **9693983003**
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Discard: 08/15/07

Page: 18 Of 76

Project Name: **YORK RDA - NORTHWEST TRIANGLE**
Workorder ID: **Soils-8260B, 8270C, PCBs, Metals**

PO#: 07214
COC Number:

Sample ID: **A-1-SS3[6]**
Date Collected: 07/17/07 14:30

Matrix: Solid
Collected by: Mr. Dan Buterbaugh

Analysis Parameter	Result	Units	RDL	Method	Completed	Prep Date	By	Cntr
VOLATILE ORGANICS								
Acetone	ND	ug/kg	29.8	8260/5035	07/19/07 03:27	07/17/07	ECR	B
Benzene	ND	ug/kg	2.4	8260/5035	07/19/07 03:27	07/17/07	ECR	B
Bromochloromethane	ND	ug/kg	2.4	8260/5035	07/19/07 03:27	07/17/07	ECR	B
Bromodichloromethane	ND	ug/kg	2.4	8260/5035	07/19/07 03:27	07/17/07	ECR	B
Bromoform	ND	ug/kg	2.4	8260/5035	07/19/07 03:27	07/17/07	ECR	B
Bromomethane	ND	ug/kg	4.8	8260/5035	07/19/07 03:27	07/17/07	ECR	B
2-Butanone	ND	ug/kg	11.9	8260/5035	07/19/07 03:27	07/17/07	ECR	B
Carbon Disulfide	4.2	ug/kg	2.4	8260/5035	07/19/07 03:27	07/17/07	ECR	B
Carbon Tetrachloride	ND	ug/kg	2.4	8260/5035	07/19/07 03:27	07/17/07	ECR	B
Chlorobenzene	ND	ug/kg	2.4	8260/5035	07/19/07 03:27	07/17/07	ECR	B
Chlorodibromomethane	ND	ug/kg	2.4	8260/5035	07/19/07 03:27	07/17/07	ECR	B
Chloroethane	ND	ug/kg	2.4	8260/5035	07/19/07 03:27	07/17/07	ECR	B
Chloroform	ND	ug/kg	2.4	8260/5035	07/19/07 03:27	07/17/07	ECR	B
Chloromethane	ND	ug/kg	2.4	8260/5035	07/19/07 03:27	07/17/07	ECR	B
1,2-Dibromo-3-chloropropane	ND	ug/kg	4.8	8260/5035	07/19/07 03:27	07/17/07	ECR	B
1,2-Dibromoethane	ND	ug/kg	2.4	8260/5035	07/19/07 03:27	07/17/07	ECR	B
1,1-Dichloroethane	ND	ug/kg	2.4	8260/5035	07/19/07 03:27	07/17/07	ECR	B
1,2-Dichloroethane	ND	ug/kg	2.4	8260/5035	07/19/07 03:27	07/17/07	ECR	B
1,1-Dichloroethene	ND	ug/kg	2.4	8260/5035	07/19/07 03:27	07/17/07	ECR	B
cis-1,2-Dichloroethene	ND	ug/kg	2.4	8260/5035	07/19/07 03:27	07/17/07	ECR	B



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Page: 19 Of 76

Project Name: **YORK RDA - NORTHWEST TRIANGLE**
Workorder ID: **Soils-8260B, 8270C, PCBs, Metals**

PO#: 07214
COC Number:

Sample ID: **A-1-SS3[6]**
Date Collected: 07/17/07 14:30

Matrix: Solid
Collected by: Mr. Dan Buterbaugh

Analysis Parameter	Result	Units	RDL	Method	Completed	Prep Date	By	Cntr
VOLATILE ORGANICS (continued)								
trans-1,2-Dichloroethene	ND	ug/kg	2.4	8260/5035	07/19/07 03:27	07/17/07	ECR	B
1,2-Dichloropropane	ND	ug/kg	2.4	8260/5035	07/19/07 03:27	07/17/07	ECR	B
cis-1,3-Dichloropropene	ND	ug/kg	2.4	8260/5035	07/19/07 03:27	07/17/07	ECR	B
trans-1,3-Dichloropropene	ND	ug/kg	2.4	8260/5035	07/19/07 03:27	07/17/07	ECR	B
Ethylbenzene	ND	ug/kg	2.4	8260/5035	07/19/07 03:27	07/17/07	ECR	B
2-Hexanone	ND	ug/kg	11.9	8260/5035	07/19/07 03:27	07/17/07	ECR	B
4-Methyl-2-Pentanone(MIBK)	ND	ug/kg	11.9	8260/5035	07/19/07 03:27	07/17/07	ECR	B
Methylene Chloride	ND	ug/kg	2.4	8260/5035	07/19/07 03:27	07/17/07	ECR	B
Styrene	ND	ug/kg	2.4	8260/5035	07/19/07 03:27	07/17/07	ECR	B
1,1,2,2-Tetrachloroethane	ND	ug/kg	2.4	8260/5035	07/19/07 03:27	07/17/07	ECR	B
Tetrachloroethene	ND	ug/kg	2.4	8260/5035	07/19/07 03:27	07/17/07	ECR	B
Toluene	ND	ug/kg	2.4	8260/5035	07/19/07 03:27	07/17/07	ECR	B
Total Xylenes	ND	ug/kg	7.2	8260/5035	07/19/07 03:27	07/17/07	ECR	B
1,1,1-Trichloroethane	ND	ug/kg	2.4	8260/5035	07/19/07 03:27	07/17/07	ECR	B
1,1,2-Trichloroethane	ND	ug/kg	2.4	8260/5035	07/19/07 03:27	07/17/07	ECR	B
Trichloroethene	ND	ug/kg	2.4	8260/5035	07/19/07 03:27	07/17/07	ECR	B
Vinyl Chloride	ND	ug/kg	2.4	8260/5035	07/19/07 03:27	07/17/07	ECR	B
o-Xylene	ND	ug/kg	2.4	8260/5035	07/19/07 03:27	07/17/07	ECR	B
mp-Xylene	ND	ug/kg	4.8	8260/5035	07/19/07 03:27	07/17/07	ECR	B



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Page: 20 Of 76

Project Name: **YORK RDA - NORTHWEST TRIANGLE**
Workorder ID: **Soils-8260B, 8270C, PCBs, Metals**

PO#: 07214
COC Number:

Sample ID: **A-1-SS3[6]**
Date Collected: 07/17/07 14:30

Matrix: Solid
Collected by: Mr. Dan Buterbaugh

Analysis Parameter	Result	Units	RDL	Method	Completed	Prep Date	By	Cntr
SEMIVOLATILES								
Acenaphthene	ND	ug/kg	76	SW846 8270C	07/28/07 13:27	07/24/07	TTR	D3
Acenaphthylene	ND	ug/kg	76	SW846 8270C	07/28/07 13:27	07/24/07	TTR	D3
Anthracene	ND	ug/kg	76	SW846 8270C	07/28/07 13:27	07/24/07	TTR	D3
Benzo(a)anthracene	114	ug/kg	76	SW846 8270C	07/28/07 13:27	07/24/07	TTR	D3
Benzo(a)pyrene	163	ug/kg	76	SW846 8270C	07/28/07 13:27	07/24/07	TTR	D3
Benzo(b)fluoranthene	246	ug/kg	76	SW846 8270C	07/28/07 13:27	07/24/07	TTR	D3
Benzo(g,h,i)perylene	95	ug/kg	76	SW846 8270C	07/28/07 13:27	07/24/07	TTR	D3
Benzo(k)fluoranthene	252	ug/kg	76	SW846 8270C	07/28/07 13:27	07/24/07	TTR	D3
4-Bromophenyl-phenylether	ND	ug/kg	108	SW846 8270C	07/28/07 13:27	07/24/07	TTR	D3
Butylbenzylphthalate	ND	ug/kg	108	SW846 8270C	07/28/07 13:27	07/24/07	TTR	D3
Carbazole	ND	ug/kg	108	SW846 8270C	07/28/07 13:27	07/24/07	TTR	D3
4-Chloro-3-methylphenol	ND	ug/kg	292	SW846 8270C	07/28/07 13:27	07/24/07	TTR	D3
4-Chloroaniline	ND	ug/kg	292	SW846 8270C	07/28/07 13:27	07/24/07	TTR	D3
Bis(2-Chloroethoxy)methane	ND	ug/kg	108	SW846 8270C	07/28/07 13:27	07/24/07	TTR	D3
Bis(2-Chloroethyl)ether	ND	ug/kg	108	SW846 8270C	07/28/07 13:27	07/24/07	TTR	D3
bis(2-Chloroisopropyl)ether	ND	ug/kg	108	SW846 8270C	07/28/07 13:27	07/24/07	TTR	D3
2-Chloronaphthalene	ND	ug/kg	108	SW846 8270C	07/28/07 13:27	07/24/07	TTR	D3
2-Chlorophenol	ND	ug/kg	292	SW846 8270C	07/28/07 13:27	07/24/07	TTR	D3
4-Chlorophenyl-phenylether	ND	ug/kg	108	SW846 8270C	07/28/07 13:27	07/24/07	TTR	D3
Chrysene	196	ug/kg	76	SW846 8270C	07/28/07 13:27	07/24/07	TTR	D3



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Page: 21 Of 76

Project Name: **YORK RDA - NORTHWEST TRIANGLE**
Workorder ID: **Soils-8260B, 8270C, PCBs, Metals**

PO#: 07214
COC Number:

Sample ID: **A-1-SS3[6]**

Matrix: Solid

Date Collected: 07/17/07 14:30

Collected by: Mr. Dan Buterbaugh

Analysis Parameter	Result	Units	RDL	Method	Completed	Prep Date	By	Cntr
SEMIVOLATILES (continued)								
mp-Cresol	ND	ug/kg	292	SW846 8270C	07/28/07 13:27	07/24/07	TTR	D3
o-Cresol	ND	ug/kg	292	SW846 8270C	07/28/07 13:27	07/24/07	TTR	D3
Di-n-Butylphthalate	ND	ug/kg	108	SW846 8270C	07/28/07 13:27	07/24/07	TTR	D3
Di-n-Octylphthalate	ND	ug/kg	292	SW846 8270C	07/28/07 13:27	07/24/07	TTR	D3
Dibenzo(a,h)anthracene	ND	ug/kg	76	SW846 8270C	07/28/07 13:27	07/24/07	TTR	D3
Dibenzofuran	ND	ug/kg	108	SW846 8270C	07/28/07 13:27	07/24/07	TTR	D3
1,2-Dichlorobenzene	ND	ug/kg	108	SW846 8270C	07/28/07 13:27	07/24/07	TTR	D3
1,3-Dichlorobenzene	ND	ug/kg	108	SW846 8270C	07/28/07 13:27	07/24/07	TTR	D3
1,4-Dichlorobenzene	ND	ug/kg	108	SW846 8270C	07/28/07 13:27	07/24/07	TTR	D3
3,3-Dichlorobenzidine	ND	ug/kg	108	SW846 8270C	07/28/07 13:27	07/24/07	TTR	D3
2,4-Dichlorophenol	ND	ug/kg	292	SW846 8270C	07/28/07 13:27	07/24/07	TTR	D3
Diethylphthalate	ND	ug/kg	108	SW846 8270C	07/28/07 13:27	07/24/07	TTR	D3
2,4-Dimethylphenol	ND	ug/kg	292	SW846 8270C	07/28/07 13:27	07/24/07	TTR	D3
Dimethylphthalate	ND	ug/kg	108	SW846 8270C	07/28/07 13:27	07/24/07	TTR	D3
2,4-Dinitrophenol	ND	ug/kg	583	SW846 8270C	07/28/07 13:27	07/24/07	TTR	D3
2,4-Dinitrotoluene	ND	ug/kg	108	SW846 8270C	07/28/07 13:27	07/24/07	TTR	D3
2,6-Dinitrotoluene	ND	ug/kg	108	SW846 8270C	07/28/07 13:27	07/24/07	TTR	D3
bis(2-Ethylhexyl)phthalate	ND	ug/kg	108	SW846 8270C	07/28/07 13:27	07/24/07	TTR	D3
Fluoranthene	155	ug/kg	76	SW846 8270C	07/28/07 13:27	07/24/07	TTR	D3
Fluorene	ND	ug/kg	76	SW846 8270C	07/28/07 13:27	07/24/07	TTR	D3



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Page: 22 Of 76

Project Name: **YORK RDA - NORTHWEST TRIANGLE**
Workorder ID: **Soils-8260B, 8270C, PCBs, Metals**

PO#: 07214
COC Number:

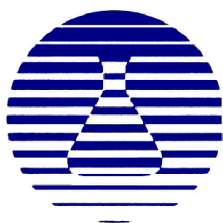
Sample ID: **A-1-SS3[6]**

Matrix: Solid

Date Collected: 07/17/07 14:30

Collected by: Mr. Dan Buterbaugh

Analysis Parameter	Result	Units	RDL	Method	Completed	Prep Date	By	Cntr
SEMIVOLATILES (continued)								
Hexachlorobenzene	ND	ug/kg	108	SW846 8270C	07/28/07 13:27	07/24/07	TTR	D3
Hexachlorobutadiene	ND	ug/kg	108	SW846 8270C	07/28/07 13:27	07/24/07	TTR	D3
Hexachlorocyclopentadiene	ND	ug/kg	292	SW846 8270C	07/28/07 13:27	07/24/07	TTR	D3
Hexachloroethane	ND	ug/kg	108	SW846 8270C	07/28/07 13:27	07/24/07	TTR	D3
Indeno(1,2,3-cd)pyrene	128	ug/kg	76	SW846 8270C	07/28/07 13:27	07/24/07	TTR	D3
Isophorone	ND	ug/kg	108	SW846 8270C	07/28/07 13:27	07/24/07	TTR	D3
2-Methyl-4,6-dinitrophenol	ND	ug/kg	292	SW846 8270C	07/28/07 13:27	07/24/07	TTR	D3
2-Methylnaphthalene	ND	ug/kg	76	SW846 8270C	07/28/07 13:27	07/24/07	TTR	D3
Naphthalene	ND	ug/kg	76	SW846 8270C	07/28/07 13:27	07/24/07	TTR	D3
2-Nitroaniline	ND	ug/kg	108	SW846 8270C	07/28/07 13:27	07/24/07	TTR	D3
3-Nitroaniline	ND	ug/kg	292	SW846 8270C	07/28/07 13:27	07/24/07	TTR	D3
4-Nitroaniline	ND	ug/kg	292	SW846 8270C	07/28/07 13:27	07/24/07	TTR	D3
Nitrobenzene	ND	ug/kg	108	SW846 8270C	07/28/07 13:27	07/24/07	TTR	D3
2-Nitrophenol	ND	ug/kg	292	SW846 8270C	07/28/07 13:27	07/24/07	TTR	D3
4-Nitrophenol	ND	ug/kg	583	SW846 8270C	07/28/07 13:27	07/24/07	TTR	D3
N-Nitroso-di-n-propylamine	ND	ug/kg	108	SW846 8270C	07/28/07 13:27	07/24/07	TTR	D3
N-Nitrosodiphenylamine	ND	ug/kg	108	SW846 8270C	07/28/07 13:27	07/24/07	TTR	D3
Pentachlorophenol	ND	ug/kg	583	SW846 8270C	07/28/07 13:27	07/24/07	TTR	D3
Phenanthrene	ND	ug/kg	76	SW846 8270C	07/28/07 13:27	07/24/07	TTR	D3
Phenol	ND	ug/kg	292	SW846 8270C	07/28/07 13:27	07/24/07	TTR	D3



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August 1, 2007

Mr. Dan Buterbaugh
ARM Group Inc.
1129 W. Governor Road
Hershey, PA 17033

Lab ID #: **9693983003**
Received: 07/17/07 16:30
Discard: 08/15/07

Page: 23 Of 76

Project Name: **YORK RDA - NORTHWEST TRIANGLE**
Workorder ID: **Soils-8260B, 8270C, PCBs, Metals**

PO#: 07214
COC Number:

Sample ID: **A-1-SS3[6]**

Matrix: Solid

Date Collected: 07/17/07 14:30

Collected by: Mr. Dan Buterbaugh

Analysis Parameter	Result	Units	RDL	Method	Completed	Prep Date	By	Cntr
SEMIVOLATILES (continued)								
Pyrene	152	ug/kg	76	SW846 8270C	07/28/07 13:27	07/24/07	TTR	D3
1,2,4-Trichlorobenzene	ND	ug/kg	108	SW846 8270C	07/28/07 13:27	07/24/07	TTR	D3
2,4,5-Trichlorophenol	ND	ug/kg	292	SW846 8270C	07/28/07 13:27	07/24/07	TTR	D3
2,4,6-Trichlorophenol	ND	ug/kg	292	SW846 8270C	07/28/07 13:27	07/24/07	TTR	D3
PCB'S								
Aroclor-1016	ND	mg/kg	0.036	SW846 8082	07/24/07 08:31	07/20/07	JJH	D1
Aroclor-1221	ND	mg/kg	0.036	SW846 8082	07/24/07 08:31	07/20/07	JJH	D1
Aroclor-1232	ND	mg/kg	0.036	SW846 8082	07/24/07 08:31	07/20/07	JJH	D1
Aroclor-1242	ND	mg/kg	0.036	SW846 8082	07/24/07 08:31	07/20/07	JJH	D1
Aroclor-1248	ND	mg/kg	0.036	SW846 8082	07/24/07 08:31	07/20/07	JJH	D1
Aroclor-1254	ND	mg/kg	0.036	SW846 8082	07/24/07 08:31	07/20/07	JJH	D1
Aroclor-1260	ND	mg/kg	0.036	SW846 8082	07/24/07 08:31	07/20/07	JJH	D1
HERBICIDES								
2,4-D	ND	ug/kg	16	SW846 8151A	07/25/07 21:14	07/23/07	KJH	D2
2,4-DB	ND	ug/kg	16	SW846 8151A	07/25/07 21:14	07/23/07	KJH	D2
Dalapon	ND	ug/kg	48	SW846 8151A	07/25/07 21:14	07/23/07	KJH	D2
Dicamba	ND	ug/kg	16	SW846 8151A	07/25/07 21:14	07/23/07	KJH	D2
Dichloroprop	ND	ug/kg	16	SW846 8151A	07/25/07 21:14	07/23/07	KJH	D2



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Page: 24 Of 76

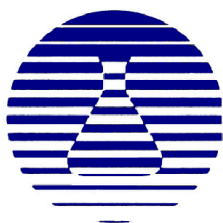
Project Name: **YORK RDA - NORTHWEST TRIANGLE**
Workorder ID: **Soils-8260B, 8270C, PCBs, Metals**

PO#: 07214
COC Number:

Sample ID: **A-1-SS3[6]**
Date Collected: 07/17/07 14:30

Matrix: Solid
Collected by: Mr. Dan Buterbaugh

Analysis Parameter	Result	Units	RDL	Method	Completed	Prep Date	By	Cntr
HERBICIDES (continued)								
Dinoseb	ND	ug/kg	32	SW846 8151A	07/25/07 21:14	07/23/07	KJH	D2
MCPA	ND	ug/kg	5300	SW846 8151A	07/25/07 21:14	07/23/07	KJH	D2
MCPP	ND	ug/kg	5300	SW846 8151A	07/25/07 21:14	07/23/07	KJH	D2
4-Nitrophenol	ND	ug/kg	32	SW846 8151A	07/25/07 21:14	07/23/07	KJH	D2
Pentachlorophenol	ND	ug/kg	16	SW846 8151A	07/25/07 21:14	07/23/07	KJH	D2
2,4,5-T	ND	ug/kg	16	SW846 8151A	07/25/07 21:14	07/23/07	KJH	D2
2,4,5-TP	ND	ug/kg	16	SW846 8151A	07/25/07 21:14	07/23/07	KJH	D2
WET CHEMISTRY								
Moisture	8.0	%	0.1	SM20-2540 G	07/18/07 05:15	07/18/07	KMW	D
Total Solids	92.0	%	0.1	SM20-2540 G	07/18/07 05:15	07/18/07	KMW	D
METALS								
Arsenic, Total	ND	mg/kg	13	SW846 6010B	07/27/07 13:52	07/25/07	JWK	D
Barium, Total	1110	mg/kg	1	SW846 6010B	07/26/07 16:48	07/25/07	JWK	D
Cadmium, Total	1.1	mg/kg	0.5	SW846 6010B	07/26/07 16:48	07/25/07	JWK	D
Chromium, Total	18.4	mg/kg	1.0	SW846 6010B	07/26/07 16:48	07/25/07	JWK	D
Lead, Total	ND	mg/kg	1	SW846 6010B	07/26/07 16:48	07/25/07	JWK	D
Mercury, Total	ND	mg/kg	0.20	SW846 7471B	07/29/07 21:11	07/27/07	AGM	D4
Selenium, Total	ND	mg/kg	26	SW846 6010B	07/27/07 13:52	07/25/07	JWK	D



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Page: 25 Of 76

Project Name: **YORK RDA - NORTHWEST TRIANGLE**
Workorder ID: **Soils-8260B, 8270C, PCBs, Metals**

PO#: 07214
COC Number:

Sample ID: **A-1-SS3[6]**
Date Collected: 07/17/07 14:30

Matrix: Solid
Collected by: Mr. Dan Buterbaugh

Analysis Parameter	Result	Units	RDL	Method	Completed	Prep Date	By	Cntr
METALS (continued)								
Silver, Total	ND	mg/kg	2.6	SW846 6010B	07/27/07 13:52	07/25/07	JWK	D
Surrogates	Result	Units	Recovery	Limits				
2,4,6-Tribromophenol	1590	ug/kg	48.0%	(24 - 130)				
1,2-Dichloroethane-d4	28.8	ug/kg	88.0%	(56 - 124)				
Dibromofluoromethane	29.1	ug/kg	88.0%	(62 - 123)				
2,4-Dichlorophenylacetic acid	133	ug/kg	81.0%	(52 - 148)				
Toluene-d8	30.2	ug/kg	92.0%	(59 - 131)				
Decachlorobiphenyl	.05	mg/kg	60.0%	(30 - 150)				
2-Fluorobiphenyl	778	ug/kg	47.0%	(40 - 113)				
2-Fluorophenol	1520	ug/kg	46.0%	(25 - 110)				
Nitrobenzene-d5	775	ug/kg	47.0%	(36 - 113)				
Phenol-d5	1710	ug/kg	52.0%	(28 - 111)				
4-Bromofluorobenzene	27.6	ug/kg	84.0%	(51 - 128)				
Tetrachloro-m-xylene	.057	mg/kg	69.0%	(30 - 136)				
Terphenyl-d14	887	ug/kg	54.0%	(35 - 135)				

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

Raymond J. Martrano
Laboratory Manager



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Discard: 08/15/07

Page: 26 Of 76

Project Name: **YORK RDA - NORTHWEST TRIANGLE**
Workorder ID: **Soils-8260B, 8270C, PCBs, Metals**

PO#: 07214
COC Number:

Sample ID: **A-2-SS1[6]**
Date Collected: 07/17/07 14:40

Matrix: Solid
Collected by: Mr. Dan Buterbaugh

Analysis Parameter	Result	Units	RDL	Method	Completed	Prep Date	By	Cntr
VOLATILE ORGANICS								
Acetone	20.6	ug/kg	20.5	8260/5035	07/19/07 03:58	07/17/07	ECR	B
Benzene	ND	ug/kg	1.6	8260/5035	07/19/07 03:58	07/17/07	ECR	B
Bromochloromethane	ND	ug/kg	1.6	8260/5035	07/19/07 03:58	07/17/07	ECR	B
Bromodichloromethane	ND	ug/kg	1.6	8260/5035	07/19/07 03:58	07/17/07	ECR	B
Bromoform	ND	ug/kg	1.6	8260/5035	07/19/07 03:58	07/17/07	ECR	B
Bromomethane	ND	ug/kg	3.3	8260/5035	07/19/07 03:58	07/17/07	ECR	B
2-Butanone	ND	ug/kg	8.2	8260/5035	07/19/07 03:58	07/17/07	ECR	B
Carbon Disulfide	ND	ug/kg	1.6	8260/5035	07/19/07 03:58	07/17/07	ECR	B
Carbon Tetrachloride	ND	ug/kg	1.6	8260/5035	07/19/07 03:58	07/17/07	ECR	B
Chlorobenzene	ND	ug/kg	1.6	8260/5035	07/19/07 03:58	07/17/07	ECR	B
Chlorodibromomethane	ND	ug/kg	1.6	8260/5035	07/19/07 03:58	07/17/07	ECR	B
Chloroethane	ND	ug/kg	1.6	8260/5035	07/19/07 03:58	07/17/07	ECR	B
Chloroform	ND	ug/kg	1.6	8260/5035	07/19/07 03:58	07/17/07	ECR	B
Chloromethane	ND	ug/kg	1.6	8260/5035	07/19/07 03:58	07/17/07	ECR	B
1,2-Dibromo-3-chloropropane	ND	ug/kg	3.3	8260/5035	07/19/07 03:58	07/17/07	ECR	B
1,2-Dibromoethane	ND	ug/kg	1.6	8260/5035	07/19/07 03:58	07/17/07	ECR	B
1,1-Dichloroethane	ND	ug/kg	1.6	8260/5035	07/19/07 03:58	07/17/07	ECR	B
1,2-Dichloroethane	ND	ug/kg	1.6	8260/5035	07/19/07 03:58	07/17/07	ECR	B
1,1-Dichloroethene	ND	ug/kg	1.6	8260/5035	07/19/07 03:58	07/17/07	ECR	B
cis-1,2-Dichloroethene	ND	ug/kg	1.6	8260/5035	07/19/07 03:58	07/17/07	ECR	B



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Page: 27 Of 76

Project Name: **YORK RDA - NORTHWEST TRIANGLE**
Workorder ID: **Soils-8260B, 8270C, PCBs, Metals**

PO#: 07214
COC Number:

Sample ID: **A-2-SS1[6]**
Date Collected: 07/17/07 14:40

Matrix: Solid
Collected by: Mr. Dan Buterbaugh

Analysis Parameter	Result	Units	RDL	Method	Completed	Prep Date	By	Cntr
VOLATILE ORGANICS (continued)								
trans-1,2-Dichloroethene	ND	ug/kg	1.6	8260/5035	07/19/07 03:58	07/17/07	ECR	B
1,2-Dichloropropane	ND	ug/kg	1.6	8260/5035	07/19/07 03:58	07/17/07	ECR	B
cis-1,3-Dichloropropene	ND	ug/kg	1.6	8260/5035	07/19/07 03:58	07/17/07	ECR	B
trans-1,3-Dichloropropene	ND	ug/kg	1.6	8260/5035	07/19/07 03:58	07/17/07	ECR	B
Ethylbenzene	ND	ug/kg	1.6	8260/5035	07/19/07 03:58	07/17/07	ECR	B
2-Hexanone	ND	ug/kg	8.2	8260/5035	07/19/07 03:58	07/17/07	ECR	B
4-Methyl-2-Pentanone(MIBK)	ND	ug/kg	8.2	8260/5035	07/19/07 03:58	07/17/07	ECR	B
Methylene Chloride	ND	ug/kg	1.6	8260/5035	07/19/07 03:58	07/17/07	ECR	B
Styrene	ND	ug/kg	1.6	8260/5035	07/19/07 03:58	07/17/07	ECR	B
1,1,2,2-Tetrachloroethane	ND	ug/kg	1.6	8260/5035	07/19/07 03:58	07/17/07	ECR	B
Tetrachloroethene	ND	ug/kg	1.6	8260/5035	07/19/07 03:58	07/17/07	ECR	B
Toluene	ND	ug/kg	1.6	8260/5035	07/19/07 03:58	07/17/07	ECR	B
Total Xylenes	ND	ug/kg	4.9	8260/5035	07/19/07 03:58	07/17/07	ECR	B
1,1,1-Trichloroethane	ND	ug/kg	1.6	8260/5035	07/19/07 03:58	07/17/07	ECR	B
1,1,2-Trichloroethane	ND	ug/kg	1.6	8260/5035	07/19/07 03:58	07/17/07	ECR	B
Trichloroethene	ND	ug/kg	1.6	8260/5035	07/19/07 03:58	07/17/07	ECR	B
Vinyl Chloride	ND	ug/kg	1.6	8260/5035	07/19/07 03:58	07/17/07	ECR	B
o-Xylene	ND	ug/kg	1.6	8260/5035	07/19/07 03:58	07/17/07	ECR	B
mp-Xylene	ND	ug/kg	3.3	8260/5035	07/19/07 03:58	07/17/07	ECR	B



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Page: 28 Of 76

Project Name: **YORK RDA - NORTHWEST TRIANGLE**
Workorder ID: **Soils-8260B, 8270C, PCBs, Metals**

PO#: 07214
COC Number:

Sample ID: **A-2-SS1[6]**

Matrix: Solid

Date Collected: 07/17/07 14:40

Collected by: Mr. Dan Buterbaugh

Analysis Parameter	Result	Units	RDL	Method	Completed	Prep Date	By	Cntr
SEMIVOLATILES								
Acenaphthene	ND	ug/kg	293	SW846 8270C	07/31/07 12:08	07/24/07	DRS	D2
Acenaphthylene	1280	ug/kg	293	SW846 8270C	07/31/07 12:08	07/24/07	DRS	D2
Anthracene	524	ug/kg	293	SW846 8270C	07/31/07 12:08	07/24/07	DRS	D2
Benzo(a)anthracene	2830	ug/kg	293	SW846 8270C	07/31/07 12:08	07/24/07	DRS	D2
Benzo(a)pyrene	2930	ug/kg	293	SW846 8270C	07/31/07 12:08	07/24/07	DRS	D2
Benzo(b)fluoranthene	3110	ug/kg	293	SW846 8270C	07/31/07 12:08	07/24/07	DRS	D2
Benzo(g,h,i)perylene	1960	ug/kg	293	SW846 8270C	07/31/07 12:08	07/24/07	DRS	D2
Benzo(k)fluoranthene	3460	ug/kg	293	SW846 8270C	07/31/07 12:08	07/24/07	DRS	D2
4-Bromophenyl-phenylether	ND	ug/kg	418	SW846 8270C	07/31/07 12:08	07/24/07	DRS	D2
Butylbenzylphthalate	ND	ug/kg	418	SW846 8270C	07/31/07 12:08	07/24/07	DRS	D2
Carbazole	ND	ug/kg	418	SW846 8270C	07/31/07 12:08	07/24/07	DRS	D2
4-Chloro-3-methylphenol	ND	ug/kg	1130	SW846 8270C	07/31/07 12:08	07/24/07	DRS	D2
4-Chloroaniline	ND	ug/kg	1130	SW846 8270C	07/31/07 12:08	07/24/07	DRS	D2
Bis(2-Chloroethoxy)methane	ND	ug/kg	418	SW846 8270C	07/31/07 12:08	07/24/07	DRS	D2
Bis(2-Chloroethyl)ether	ND	ug/kg	418	SW846 8270C	07/31/07 12:08	07/24/07	DRS	D2
bis(2-Chloroisopropyl)ether	ND	ug/kg	418	SW846 8270C	07/31/07 12:08	07/24/07	DRS	D2
2-Chloronaphthalene	ND	ug/kg	418	SW846 8270C	07/31/07 12:08	07/24/07	DRS	D2
2-Chlorophenol	ND	ug/kg	1130	SW846 8270C	07/31/07 12:08	07/24/07	DRS	D2
4-Chlorophenyl-phenylether	ND	ug/kg	418	SW846 8270C	07/31/07 12:08	07/24/07	DRS	D2
Chrysene	2940	ug/kg	293	SW846 8270C	07/31/07 12:08	07/24/07	DRS	D2



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Page: 29 Of 76

Project Name: **YORK RDA - NORTHWEST TRIANGLE**
Workorder ID: **Soils-8260B, 8270C, PCBs, Metals**

PO#: 07214
COC Number:

Sample ID: **A-2-SS1[6]**

Matrix: Solid

Date Collected: 07/17/07 14:40

Collected by: Mr. Dan Buterbaugh

Analysis Parameter	Result	Units	RDL	Method	Completed	Prep Date	By	Cntr
SEMIVOLATILES (continued)								
mp-Cresol	ND	ug/kg	1130	SW846 8270C	07/31/07 12:08	07/24/07	DRS	D2
o-Cresol	ND	ug/kg	1130	SW846 8270C	07/31/07 12:08	07/24/07	DRS	D2
Di-n-Butylphthalate	ND	ug/kg	418	SW846 8270C	07/31/07 12:08	07/24/07	DRS	D2
Di-n-Octylphthalate	ND	ug/kg	1130	SW846 8270C	07/31/07 12:08	07/24/07	DRS	D2
Dibenzo(a,h)anthracene	651	ug/kg	293	SW846 8270C	07/31/07 12:08	07/24/07	DRS	D2
Dibenzofuran	ND	ug/kg	418	SW846 8270C	07/31/07 12:08	07/24/07	DRS	D2
1,2-Dichlorobenzene	ND	ug/kg	418	SW846 8270C	07/31/07 12:08	07/24/07	DRS	D2
1,3-Dichlorobenzene	ND	ug/kg	418	SW846 8270C	07/31/07 12:08	07/24/07	DRS	D2
1,4-Dichlorobenzene	ND	ug/kg	418	SW846 8270C	07/31/07 12:08	07/24/07	DRS	D2
3,3-Dichlorobenzidine	ND	ug/kg	418	SW846 8270C	07/31/07 12:08	07/24/07	DRS	D2
2,4-Dichlorophenol	ND	ug/kg	1130	SW846 8270C	07/31/07 12:08	07/24/07	DRS	D2
Diethylphthalate	ND	ug/kg	418	SW846 8270C	07/31/07 12:08	07/24/07	DRS	D2
2,4-Dimethylphenol	ND	ug/kg	1130	SW846 8270C	07/31/07 12:08	07/24/07	DRS	D2
Dimethylphthalate	ND	ug/kg	418	SW846 8270C	07/31/07 12:08	07/24/07	DRS	D2
2,4-Dinitrophenol	ND	ug/kg	2260	SW846 8270C	07/31/07 12:08	07/24/07	DRS	D2
2,4-Dinitrotoluene	ND	ug/kg	418	SW846 8270C	07/31/07 12:08	07/24/07	DRS	D2
2,6-Dinitrotoluene	ND	ug/kg	418	SW846 8270C	07/31/07 12:08	07/24/07	DRS	D2
bis(2-Ethylhexyl)phthalate	ND	ug/kg	418	SW846 8270C	07/31/07 12:08	07/24/07	DRS	D2
Fluoranthene	4240	ug/kg	293	SW846 8270C	07/31/07 12:08	07/24/07	DRS	D2
Fluorene	ND	ug/kg	293	SW846 8270C	07/31/07 12:08	07/24/07	DRS	D2



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Page: 30 Of 76

Project Name: **YORK RDA - NORTHWEST TRIANGLE**
Workorder ID: **Soils-8260B, 8270C, PCBs, Metals**

PO#: 07214
COC Number:

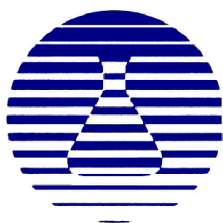
Sample ID: **A-2-SS1[6]**

Matrix: Solid

Date Collected: 07/17/07 14:40

Collected by: Mr. Dan Buterbaugh

Analysis Parameter	Result	Units	RDL	Method	Completed	Prep Date	By	Cntr
SEMIVOLATILES (continued)								
Hexachlorobenzene	ND	ug/kg	418	SW846 8270C	07/31/07 12:08	07/24/07	DRS	D2
Hexachlorobutadiene	ND	ug/kg	418	SW846 8270C	07/31/07 12:08	07/24/07	DRS	D2
Hexachlorocyclopentadiene	ND	ug/kg	1130	SW846 8270C	07/31/07 12:08	07/24/07	DRS	D2
Hexachloroethane	ND	ug/kg	418	SW846 8270C	07/31/07 12:08	07/24/07	DRS	D2
Indeno(1,2,3-cd)pyrene	2300	ug/kg	293	SW846 8270C	07/31/07 12:08	07/24/07	DRS	D2
Isophorone	ND	ug/kg	418	SW846 8270C	07/31/07 12:08	07/24/07	DRS	D2
2-Methyl-4,6-dinitrophenol	ND	ug/kg	1130	SW846 8270C	07/31/07 12:08	07/24/07	DRS	D2
2-Methylnaphthalene	ND	ug/kg	293	SW846 8270C	07/31/07 12:08	07/24/07	DRS	D2
Naphthalene	ND	ug/kg	293	SW846 8270C	07/31/07 12:08	07/24/07	DRS	D2
2-Nitroaniline	ND	ug/kg	418	SW846 8270C	07/31/07 12:08	07/24/07	DRS	D2
3-Nitroaniline	ND	ug/kg	1130	SW846 8270C	07/31/07 12:08	07/24/07	DRS	D2
4-Nitroaniline	ND	ug/kg	1130	SW846 8270C	07/31/07 12:08	07/24/07	DRS	D2
Nitrobenzene	ND	ug/kg	418	SW846 8270C	07/31/07 12:08	07/24/07	DRS	D2
2-Nitrophenol	ND	ug/kg	1130	SW846 8270C	07/31/07 12:08	07/24/07	DRS	D2
4-Nitrophenol	ND	ug/kg	2260	SW846 8270C	07/31/07 12:08	07/24/07	DRS	D2
N-Nitroso-di-n-propylamine	ND	ug/kg	418	SW846 8270C	07/31/07 12:08	07/24/07	DRS	D2
N-Nitrosodiphenylamine	ND	ug/kg	418	SW846 8270C	07/31/07 12:08	07/24/07	DRS	D2
Pentachlorophenol	ND	ug/kg	2260	SW846 8270C	07/31/07 12:08	07/24/07	DRS	D2
Phenanthrene	371	ug/kg	293	SW846 8270C	07/31/07 12:08	07/24/07	DRS	D2
Phenol	ND	ug/kg	1130	SW846 8270C	07/31/07 12:08	07/24/07	DRS	D2



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ARM Group Inc.
1129 W. Governor Road
Hershey, PA 17033

Lab ID #: **9693983004**
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Discard: 08/15/07

Page: 31 Of 76

Project Name: **YORK RDA - NORTHWEST TRIANGLE**
Workorder ID: **Soils-8260B, 8270C, PCBs, Metals**

PO#: 07214
COC Number:

Sample ID: **A-2-SS1[6]**

Matrix: Solid

Date Collected: 07/17/07 14:40

Collected by: Mr. Dan Buterbaugh

Analysis Parameter	Result	Units	RDL	Method	Completed	Prep Date	By	Cntr
SEMIVOLATILES (continued)								
Pyrene	4130	ug/kg	293	SW846 8270C	07/31/07 12:08	07/24/07	DRS	D2
1,2,4-Trichlorobenzene	ND	ug/kg	418	SW846 8270C	07/31/07 12:08	07/24/07	DRS	D2
2,4,5-Trichlorophenol	ND	ug/kg	1130	SW846 8270C	07/31/07 12:08	07/24/07	DRS	D2
2,4,6-Trichlorophenol	ND	ug/kg	1130	SW846 8270C	07/31/07 12:08	07/24/07	DRS	D2
PCB'S								
Aroclor-1016	ND	mg/kg	0.035	SW846 8082	07/24/07 09:03	07/20/07	JJH	D1
Aroclor-1221	ND	mg/kg	0.035	SW846 8082	07/24/07 09:03	07/20/07	JJH	D1
Aroclor-1232	ND	mg/kg	0.035	SW846 8082	07/24/07 09:03	07/20/07	JJH	D1
Aroclor-1242	ND	mg/kg	0.035	SW846 8082	07/24/07 09:03	07/20/07	JJH	D1
Aroclor-1248	ND	mg/kg	0.035	SW846 8082	07/24/07 09:03	07/20/07	JJH	D1
Aroclor-1254	ND	mg/kg	0.035	SW846 8082	07/24/07 09:03	07/20/07	JJH	D1
Aroclor-1260	ND	mg/kg	0.035	SW846 8082	07/24/07 09:03	07/20/07	JJH	D1
WET CHEMISTRY								
Moisture	5.4	%	0.1	SM20-2540 G	07/18/07 05:15	07/18/07	KMW	D
Total Solids	94.6	%	0.1	SM20-2540 G	07/18/07 05:15	07/18/07	KMW	D



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Discard: 08/15/07

Page: 32 Of 76

Project Name: **YORK RDA - NORTHWEST TRIANGLE**
Workorder ID: **Soils-8260B, 8270C, PCBs, Metals**

PO#: 07214
COC Number:

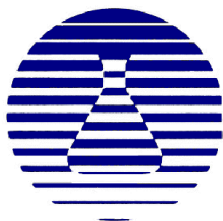
Sample ID: **A-2-SS1[6]**

Matrix: Solid

Date Collected: 07/17/07 14:40

Collected by: Mr. Dan Buterbaugh

Analysis Parameter	Result	Units	RDL	Method	Completed	Prep Date	By	Cntr
METALS								
Arsenic, Total	11	mg/kg	3	SW846 6010B	07/26/07 16:54	07/25/07	JWK	D
Barium, Total	543	mg/kg	1	SW846 6010B	07/26/07 16:54	07/25/07	JWK	D
Cadmium, Total	4.4	mg/kg	0.5	SW846 6010B	07/26/07 16:54	07/25/07	JWK	D
Chromium, Total	821	mg/kg	1.0	SW846 6010B	07/26/07 16:54	07/25/07	JWK	D
Lead, Total	122	mg/kg	1	SW846 6010B	07/26/07 16:54	07/25/07	JWK	D
Mercury, Total	ND	mg/kg	0.19	SW846 7471B	07/29/07 21:22	07/27/07	AGM	D3
Selenium, Total	ND	mg/kg	51	SW846 6010B	07/27/07 15:30	07/25/07	JWK	D
Silver, Total	ND	mg/kg	5.1	SW846 6010B	07/27/07 15:30	07/25/07	JWK	D
Surrogates								
	Result	Units	Recovery	Limits				
2,4,6-Tribromophenol	2060	ug/kg	62.0%	(24 - 130)				
1,2-Dichloroethane-d4	20.2	ug/kg	87.0%	(56 - 124)				
Dibromofluoromethane	20.6	ug/kg	89.0%	(62 - 123)				
Toluene-d8	21.3	ug/kg	91.0%	(59 - 131)				
Decachlorobiphenyl	.045	mg/kg	55.0%	(30 - 150)				
2-Fluorobiphenyl	1060	ug/kg	64.0%	(40 - 113)				
2-Fluorophenol	1830	ug/kg	56.0%	(25 - 110)				
Nitrobenzene-d5	941	ug/kg	57.0%	(36 - 113)				
Phenol-d5	2080	ug/kg	63.0%	(28 - 111)				
4-Bromofluorobenzene	20.4	ug/kg	88.0%	(51 - 128)				



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1129 W. Governor Road
Hershey, PA 17033

Lab ID #: **9693983004**
Received: 07/17/07 16:30
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Page: 33 Of 76

Project Name: **YORK RDA - NORTHWEST TRIANGLE**
Workorder ID: **Soils-8260B, 8270C, PCBs, Metals**

PO#: 07214
COC Number:

Sample ID: **A-2-SS1[6]**
Date Collected: 07/17/07 14:40

Matrix: Solid
Collected by: Mr. Dan Buterbaugh

Surrogates (continued)	Result	Units	Recovery	Limits
Tetrachloro-m-xylene	.053	mg/kg	64.0%	(30 - 136)
Terphenyl-d14	1210	ug/kg	73.0%	(35 - 135)

Comments:

Several compounds were recovered below quality control criteria in the 8260 matrix spike of this sample. The LCS had acceptable recoveries, satisfying method criteria.

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

Raymond J. Martrano
Laboratory Manager



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August 1, 2007

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Hershey, PA 17033

Lab ID #: **9693983005**
Received: 07/17/07 16:30
Discard: 08/15/07

Page: 34 Of 76

Project Name: **YORK RDA - NORTHWEST TRIANGLE**
Workorder ID: **Soils-8260B, 8270C, PCBs, Metals**

PO#: 07214
COC Number:

Sample ID: **A-2-SS2[6]**

Matrix: Solid

Date Collected: 07/17/07 15:00

Collected by: Mr. Dan Buterbaugh

Analysis Parameter	Result	Units	RDL	Method	Completed	Prep Date	By	Cntr
VOLATILE ORGANICS								
Acetone	253	ug/kg	30.7	8260/5035	07/19/07 04:28	07/17/07	ECR	B
Benzene	ND	ug/kg	2.5	8260/5035	07/19/07 04:28	07/17/07	ECR	B
Bromochloromethane	ND	ug/kg	2.5	8260/5035	07/19/07 04:28	07/17/07	ECR	B
Bromodichloromethane	ND	ug/kg	2.5	8260/5035	07/19/07 04:28	07/17/07	ECR	B
Bromoform	ND	ug/kg	2.5	8260/5035	07/19/07 04:28	07/17/07	ECR	B
Bromomethane	ND	ug/kg	4.9	8260/5035	07/19/07 04:28	07/17/07	ECR	B
2-Butanone	ND	ug/kg	12.3	8260/5035	07/19/07 04:28	07/17/07	ECR	B
Carbon Disulfide	ND	ug/kg	2.5	8260/5035	07/19/07 04:28	07/17/07	ECR	B
Carbon Tetrachloride	ND	ug/kg	2.5	8260/5035	07/19/07 04:28	07/17/07	ECR	B
Chlorobenzene	ND	ug/kg	2.5	8260/5035	07/19/07 04:28	07/17/07	ECR	B
Chlorodibromomethane	ND	ug/kg	2.5	8260/5035	07/19/07 04:28	07/17/07	ECR	B
Chloroethane	ND	ug/kg	2.5	8260/5035	07/19/07 04:28	07/17/07	ECR	B
Chloroform	ND	ug/kg	2.5	8260/5035	07/19/07 04:28	07/17/07	ECR	B
Chloromethane	ND	ug/kg	2.5	8260/5035	07/19/07 04:28	07/17/07	ECR	B
1,2-Dibromo-3-chloropropane	ND	ug/kg	4.9	8260/5035	07/19/07 04:28	07/17/07	ECR	B
1,2-Dibromoethane	ND	ug/kg	2.5	8260/5035	07/19/07 04:28	07/17/07	ECR	B
1,1-Dichloroethane	ND	ug/kg	2.5	8260/5035	07/19/07 04:28	07/17/07	ECR	B
1,2-Dichloroethane	ND	ug/kg	2.5	8260/5035	07/19/07 04:28	07/17/07	ECR	B
1,1-Dichloroethene	ND	ug/kg	2.5	8260/5035	07/19/07 04:28	07/17/07	ECR	B
cis-1,2-Dichloroethene	ND	ug/kg	2.5	8260/5035	07/19/07 04:28	07/17/07	ECR	B



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Page: 35 Of 76

Project Name: **YORK RDA - NORTHWEST TRIANGLE**
Workorder ID: **Soils-8260B, 8270C, PCBs, Metals**

PO#: 07214
COC Number:

Sample ID: **A-2-SS2[6]**

Matrix: Solid

Date Collected: 07/17/07 15:00

Collected by: Mr. Dan Buterbaugh

Analysis Parameter	Result	Units	RDL	Method	Completed	Prep Date	By	Cntr
VOLATILE ORGANICS (continued)								
trans-1,2-Dichloroethene	ND	ug/kg	2.5	8260/5035	07/19/07 04:28	07/17/07	ECR	B
1,2-Dichloropropane	ND	ug/kg	2.5	8260/5035	07/19/07 04:28	07/17/07	ECR	B
cis-1,3-Dichloropropene	ND	ug/kg	2.5	8260/5035	07/19/07 04:28	07/17/07	ECR	B
trans-1,3-Dichloropropene	ND	ug/kg	2.5	8260/5035	07/19/07 04:28	07/17/07	ECR	B
Ethylbenzene	ND	ug/kg	2.5	8260/5035	07/19/07 04:28	07/17/07	ECR	B
2-Hexanone	ND	ug/kg	12.3	8260/5035	07/19/07 04:28	07/17/07	ECR	B
4-Methyl-2-Pentanone(MIBK)	ND	ug/kg	12.3	8260/5035	07/19/07 04:28	07/17/07	ECR	B
Methylene Chloride	ND	ug/kg	2.5	8260/5035	07/19/07 04:28	07/17/07	ECR	B
Styrene	ND	ug/kg	2.5	8260/5035	07/19/07 04:28	07/17/07	ECR	B
1,1,2,2-Tetrachloroethane	ND	ug/kg	2.5	8260/5035	07/19/07 04:28	07/17/07	ECR	B
Tetrachloroethene	ND	ug/kg	2.5	8260/5035	07/19/07 04:28	07/17/07	ECR	B
Toluene	ND	ug/kg	2.5	8260/5035	07/19/07 04:28	07/17/07	ECR	B
Total Xylenes	ND	ug/kg	7.4	8260/5035	07/19/07 04:28	07/17/07	ECR	B
1,1,1-Trichloroethane	ND	ug/kg	2.5	8260/5035	07/19/07 04:28	07/17/07	ECR	B
1,1,2-Trichloroethane	ND	ug/kg	2.5	8260/5035	07/19/07 04:28	07/17/07	ECR	B
Trichloroethene	ND	ug/kg	2.5	8260/5035	07/19/07 04:28	07/17/07	ECR	B
Vinyl Chloride	ND	ug/kg	2.5	8260/5035	07/19/07 04:28	07/17/07	ECR	B
o-Xylene	ND	ug/kg	2.5	8260/5035	07/19/07 04:28	07/17/07	ECR	B
mp-Xylene	ND	ug/kg	4.9	8260/5035	07/19/07 04:28	07/17/07	ECR	B



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Hershey, PA 17033

Lab ID #: **9693983005**
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Page: 36 Of 76

Project Name: **YORK RDA - NORTHWEST TRIANGLE**
Workorder ID: **Soils-8260B, 8270C, PCBs, Metals**

PO#: 07214
COC Number:

Sample ID: **A-2-SS2[6]**
Date Collected: 07/17/07 15:00

Matrix: Solid
Collected by: Mr. Dan Buterbaugh

Analysis Parameter	Result	Units	RDL	Method	Completed	Prep Date	By	Cntr
SEMIVOLATILES								
Acenaphthene	ND	ug/kg	151	SW846 8270C	07/31/07 11:19	07/24/07	DRS	D5
Acenaphthylene	378	ug/kg	151	SW846 8270C	07/31/07 11:19	07/24/07	DRS	D5
Anthracene	221	ug/kg	151	SW846 8270C	07/31/07 11:19	07/24/07	DRS	D5
Benzo(a)anthracene	554	ug/kg	151	SW846 8270C	07/31/07 11:19	07/24/07	DRS	D5
Benzo(a)pyrene	787	ug/kg	151	SW846 8270C	07/31/07 11:19	07/24/07	DRS	D5
Benzo(b)fluoranthene	1130	ug/kg	151	SW846 8270C	07/31/07 11:19	07/24/07	DRS	D5
Benzo(g,h,i)perylene	593	ug/kg	151	SW846 8270C	07/31/07 11:19	07/24/07	DRS	D5
Benzo(k)fluoranthene	829	ug/kg	151	SW846 8270C	07/31/07 11:19	07/24/07	DRS	D5
4-Bromophenyl-phenylether	ND	ug/kg	216	SW846 8270C	07/31/07 11:19	07/24/07	DRS	D5
Butylbenzylphthalate	ND	ug/kg	216	SW846 8270C	07/31/07 11:19	07/24/07	DRS	D5
Carbazole	ND	ug/kg	216	SW846 8270C	07/31/07 11:19	07/24/07	DRS	D5
4-Chloro-3-methylphenol	ND	ug/kg	582	SW846 8270C	07/31/07 11:19	07/24/07	DRS	D5
4-Chloroaniline	ND	ug/kg	582	SW846 8270C	07/31/07 11:19	07/24/07	DRS	D5
Bis(2-Chloroethoxy)methane	ND	ug/kg	216	SW846 8270C	07/31/07 11:19	07/24/07	DRS	D5
Bis(2-Chloroethyl)ether	ND	ug/kg	216	SW846 8270C	07/31/07 11:19	07/24/07	DRS	D5
bis(2-Chloroisopropyl)ether	ND	ug/kg	216	SW846 8270C	07/31/07 11:19	07/24/07	DRS	D5
2-Chloronaphthalene	ND	ug/kg	216	SW846 8270C	07/31/07 11:19	07/24/07	DRS	D5
2-Chlorophenol	ND	ug/kg	582	SW846 8270C	07/31/07 11:19	07/24/07	DRS	D5
4-Chlorophenyl-phenylether	ND	ug/kg	216	SW846 8270C	07/31/07 11:19	07/24/07	DRS	D5
Chrysene	876	ug/kg	151	SW846 8270C	07/31/07 11:19	07/24/07	DRS	D5



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Page: 37 Of 76

Project Name: **YORK RDA - NORTHWEST TRIANGLE**
Workorder ID: **Soils-8260B, 8270C, PCBs, Metals**

PO#: 07214
COC Number:

Sample ID: **A-2-SS2[6]**

Matrix: Solid

Date Collected: 07/17/07 15:00

Collected by: Mr. Dan Buterbaugh

Analysis Parameter	Result	Units	RDL	Method	Completed	Prep Date	By	Cntr
SEMIVOLATILES (continued)								
mp-Cresol	ND	ug/kg	582	SW846 8270C	07/31/07 11:19	07/24/07	DRS	D5
o-Cresol	ND	ug/kg	582	SW846 8270C	07/31/07 11:19	07/24/07	DRS	D5
Di-n-Butylphthalate	ND	ug/kg	216	SW846 8270C	07/31/07 11:19	07/24/07	DRS	D5
Di-n-Octylphthalate	ND	ug/kg	582	SW846 8270C	07/31/07 11:19	07/24/07	DRS	D5
Dibenzo(a,h)anthracene	240	ug/kg	151	SW846 8270C	07/31/07 11:19	07/24/07	DRS	D5
Dibenzofuran	ND	ug/kg	216	SW846 8270C	07/31/07 11:19	07/24/07	DRS	D5
1,2-Dichlorobenzene	ND	ug/kg	216	SW846 8270C	07/31/07 11:19	07/24/07	DRS	D5
1,3-Dichlorobenzene	ND	ug/kg	216	SW846 8270C	07/31/07 11:19	07/24/07	DRS	D5
1,4-Dichlorobenzene	ND	ug/kg	216	SW846 8270C	07/31/07 11:19	07/24/07	DRS	D5
3,3-Dichlorobenzidine	ND	ug/kg	216	SW846 8270C	07/31/07 11:19	07/24/07	DRS	D5
2,4-Dichlorophenol	ND	ug/kg	582	SW846 8270C	07/31/07 11:19	07/24/07	DRS	D5
Diethylphthalate	ND	ug/kg	216	SW846 8270C	07/31/07 11:19	07/24/07	DRS	D5
2,4-Dimethylphenol	ND	ug/kg	582	SW846 8270C	07/31/07 11:19	07/24/07	DRS	D5
Dimethylphthalate	ND	ug/kg	216	SW846 8270C	07/31/07 11:19	07/24/07	DRS	D5
2,4-Dinitrophenol	ND	ug/kg	1160	SW846 8270C	07/31/07 11:19	07/24/07	DRS	D5
2,4-Dinitrotoluene	ND	ug/kg	216	SW846 8270C	07/31/07 11:19	07/24/07	DRS	D5
2,6-Dinitrotoluene	ND	ug/kg	216	SW846 8270C	07/31/07 11:19	07/24/07	DRS	D5
bis(2-Ethylhexyl)phthalate	639	ug/kg	216	SW846 8270C	07/31/07 11:19	07/24/07	DRS	D5
Fluoranthene	901	ug/kg	151	SW846 8270C	07/31/07 11:19	07/24/07	DRS	D5
Fluorene	ND	ug/kg	151	SW846 8270C	07/31/07 11:19	07/24/07	DRS	D5



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Page: 38 Of 76

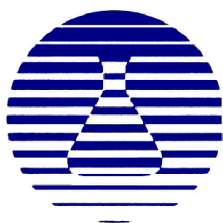
Project Name: **YORK RDA - NORTHWEST TRIANGLE**
Workorder ID: **Soils-8260B, 8270C, PCBs, Metals**

PO#: 07214
COC Number:

Sample ID: **A-2-SS2[6]**
Date Collected: 07/17/07 15:00

Matrix: Solid
Collected by: Mr. Dan Buterbaugh

Analysis Parameter	Result	Units	RDL	Method	Completed	Prep Date	By	Cntr
SEMIVOLATILES (continued)								
Hexachlorobenzene	ND	ug/kg	216	SW846 8270C	07/31/07 11:19	07/24/07	DRS	D5
Hexachlorobutadiene	ND	ug/kg	216	SW846 8270C	07/31/07 11:19	07/24/07	DRS	D5
Hexachlorocyclopentadiene	ND	ug/kg	582	SW846 8270C	07/31/07 11:19	07/24/07	DRS	D5
Hexachloroethane	ND	ug/kg	216	SW846 8270C	07/31/07 11:19	07/24/07	DRS	D5
Indeno(1,2,3-cd)pyrene	651	ug/kg	151	SW846 8270C	07/31/07 11:19	07/24/07	DRS	D5
Isophorone	ND	ug/kg	216	SW846 8270C	07/31/07 11:19	07/24/07	DRS	D5
2-Methyl-4,6-dinitrophenol	ND	ug/kg	582	SW846 8270C	07/31/07 11:19	07/24/07	DRS	D5
2-Methylnaphthalene	179	ug/kg	151	SW846 8270C	07/31/07 11:19	07/24/07	DRS	D5
Naphthalene	ND	ug/kg	151	SW846 8270C	07/31/07 11:19	07/24/07	DRS	D5
2-Nitroaniline	ND	ug/kg	216	SW846 8270C	07/31/07 11:19	07/24/07	DRS	D5
3-Nitroaniline	ND	ug/kg	582	SW846 8270C	07/31/07 11:19	07/24/07	DRS	D5
4-Nitroaniline	ND	ug/kg	582	SW846 8270C	07/31/07 11:19	07/24/07	DRS	D5
Nitrobenzene	ND	ug/kg	216	SW846 8270C	07/31/07 11:19	07/24/07	DRS	D5
2-Nitrophenol	ND	ug/kg	582	SW846 8270C	07/31/07 11:19	07/24/07	DRS	D5
4-Nitrophenol	ND	ug/kg	1160	SW846 8270C	07/31/07 11:19	07/24/07	DRS	D5
N-Nitroso-di-n-propylamine	ND	ug/kg	216	SW846 8270C	07/31/07 11:19	07/24/07	DRS	D5
N-Nitrosodiphenylamine	ND	ug/kg	216	SW846 8270C	07/31/07 11:19	07/24/07	DRS	D5
Pentachlorophenol	ND	ug/kg	1160	SW846 8270C	07/31/07 11:19	07/24/07	DRS	D5
Phenanthrene	452	ug/kg	151	SW846 8270C	07/31/07 11:19	07/24/07	DRS	D5
Phenol	ND	ug/kg	582	SW846 8270C	07/31/07 11:19	07/24/07	DRS	D5



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August 1, 2007

Mr. Dan Buterbaugh
ARM Group Inc.
1129 W. Governor Road
Hershey, PA 17033

Lab ID #: **9693983005**
Received: 07/17/07 16:30
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Page: 39 Of 76

Project Name: **YORK RDA - NORTHWEST TRIANGLE**
Workorder ID: **Soils-8260B, 8270C, PCBs, Metals**

PO#: 07214
COC Number:

Sample ID: **A-2-SS2[6]**

Matrix: Solid

Date Collected: 07/17/07 15:00

Collected by: Mr. Dan Buterbaugh

Analysis Parameter	Result	Units	RDL	Method	Completed	Prep Date	By	Cntr
SEMIVOLATILES (continued)								
Pyrene	826	ug/kg	151	SW846 8270C	07/31/07 11:19	07/24/07	DRS	D5
1,2,4-Trichlorobenzene	ND	ug/kg	216	SW846 8270C	07/31/07 11:19	07/24/07	DRS	D5
2,4,5-Trichlorophenol	ND	ug/kg	582	SW846 8270C	07/31/07 11:19	07/24/07	DRS	D5
2,4,6-Trichlorophenol	ND	ug/kg	582	SW846 8270C	07/31/07 11:19	07/24/07	DRS	D5
PCB'S								
Aroclor-1016	ND	mg/kg	0.036	SW846 8082	07/24/07 09:34	07/20/07	JJH	D1
Aroclor-1221	ND	mg/kg	0.036	SW846 8082	07/24/07 09:34	07/20/07	JJH	D1
Aroclor-1232	ND	mg/kg	0.036	SW846 8082	07/24/07 09:34	07/20/07	JJH	D1
Aroclor-1242	ND	mg/kg	0.036	SW846 8082	07/24/07 09:34	07/20/07	JJH	D1
Aroclor-1248	ND	mg/kg	0.036	SW846 8082	07/24/07 09:34	07/20/07	JJH	D1
Aroclor-1254	ND	mg/kg	0.036	SW846 8082	07/24/07 09:34	07/20/07	JJH	D1
Aroclor-1260	0.086	mg/kg	0.036	SW846 8082	07/24/07 09:34	07/20/07	JJH	D1
HERBICIDES								
2,4-D	ND	ug/kg	16	SW846 8151A	07/25/07 21:52	07/23/07	KJH	D2
2,4-DB	30	ug/kg	16	SW846 8151A	07/25/07 21:52	07/23/07	KJH	D2
Dalapon ¹	ND	ug/kg	49	SW846 8151A	07/25/07 21:52	07/23/07	KJH	D2

¹ - Recovery for this compound in the matrix spike and matrix spike duplicate associated with this sample for the 8151 herbicide analysis was outside laboratory control limits. This is likely attributed to sample matrix. Data for this sample may have been impacted.



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Lab ID #: **9693983005**
Received: 07/17/07 16:30
Discard: 08/15/07

Page: 40 Of 76

Project Name: **YORK RDA - NORTHWEST TRIANGLE**
Workorder ID: **Soils-8260B, 8270C, PCBs, Metals**

PO#: 07214
COC Number:

Sample ID: **A-2-SS2[6]**

Matrix: Solid

Date Collected: 07/17/07 15:00

Collected by: Mr. Dan Buterbaugh

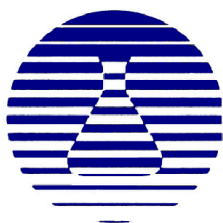
Analysis Parameter	Result	Units	RDL	Method	Completed	Prep Date	By	Cntr
HERBICIDES (continued)								
Dicamba ²	ND	ug/kg	16	SW846 8151A	07/25/07 21:52	07/23/07	KJH	D2
Dichloroprop	ND	ug/kg	16	SW846 8151A	07/25/07 21:52	07/23/07	KJH	D2
Dinoseb	ND	ug/kg	32	SW846 8151A	07/25/07 21:52	07/23/07	KJH	D2
MCPA	ND	ug/kg	5400	SW846 8151A	07/25/07 21:52	07/23/07	KJH	D2
MCPP	ND	ug/kg	5400	SW846 8151A	07/25/07 21:52	07/23/07	KJH	D2
4-Nitrophenol	ND	ug/kg	32	SW846 8151A	07/25/07 21:52	07/23/07	KJH	D2
Pentachlorophenol ³	ND	ug/kg	16	SW846 8151A	07/25/07 21:52	07/23/07	KJH	D2
2,4,5-T ⁴	ND	ug/kg	16	SW846 8151A	07/25/07 21:52	07/23/07	KJH	D2
2,4,5-TP ⁵	ND	ug/kg	16	SW846 8151A	07/25/07 21:52	07/23/07	KJH	D2
WET CHEMISTRY								
Moisture	8.4	%	0.1	SM20-2540 G	07/18/07 05:15	07/18/07	KMW	D
Total Solids	91.6	%	0.1	SM20-2540 G	07/18/07 05:15	07/18/07	KMW	D

2 - Recovery for this compound in the matrix spike and matrix spike duplicate associated with this sample for the 8151 herbicide analysis was outside laboratory control limits. This is likely attributed to sample matrix. Data for this sample may have been impacted.

3 - Recovery for this compound in the matrix spike and matrix spike duplicate associated with this sample for the 8151 herbicide analysis was outside laboratory control limits. This is likely attributed to sample matrix. Data for this sample may have been impacted.

4 - Recovery for this compound in the matrix spike and matrix spike duplicate associated with this sample for the 8151 herbicide analysis was outside laboratory control limits. This is likely attributed to sample matrix. Data for this sample may have been impacted.

5 - Recovery for this compound in the matrix spike and matrix spike duplicate associated with this sample for the 8151 herbicide analysis was outside laboratory control limits. This is likely attributed to sample matrix. Data for this sample may have been impacted.



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Page: 41 Of 76

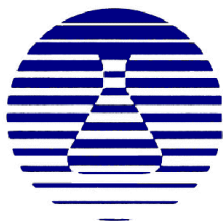
Project Name: **YORK RDA - NORTHWEST TRIANGLE**
Workorder ID: **Soils-8260B,8270C,PCBs,Metals**

PO#: 07214
COC Number:

Sample ID: **A-2-SS2[6]**
Date Collected: 07/17/07 15:00

Matrix: Solid
Collected by: Mr. Dan Buterbaugh

Analysis Parameter	Result	Units	RDL	Method	Completed	Prep Date	By	Cntr
METALS								
Arsenic, Total	47	mg/kg	2	SW846 6010B	07/26/07 17:00	07/25/07	JWK	D
Barium, Total	144	mg/kg	0.9	SW846 6010B	07/26/07 17:00	07/25/07	JWK	D
Cadmium, Total	2.2	mg/kg	0.5	SW846 6010B	07/26/07 17:00	07/25/07	JWK	D
Chromium, Total	55.6	mg/kg	0.9	SW846 6010B	07/26/07 17:00	07/25/07	JWK	D
Lead, Total	362	mg/kg	0.9	SW846 6010B	07/26/07 17:00	07/25/07	JWK	D
Mercury, Total	ND	mg/kg	0.20	SW846 7471B	07/29/07 21:26	07/27/07	AGM	D6
Selenium, Total	ND	mg/kg	5	SW846 6010B	07/26/07 17:00	07/25/07	JWK	D
Silver, Total	ND	mg/kg	0.5	SW846 6010B	07/26/07 17:00	07/25/07	JWK	D
Surrogates								
	Result	Units	Recovery	Limits				
2,4,6-Tribromophenol	2320	ug/kg	71.0%	(24 - 130)				
1,2-Dichloroethane-d4	31.6	ug/kg	94.0%	(56 - 124)				
Dibromofluoromethane	31.5	ug/kg	93.0%	(62 - 123)				
2,4-Dichlorophenylacetic acid	96	ug/kg	58.0%	(52 - 148)				
Toluene-d8	36.2	ug/kg	107.0%	(59 - 131)				
Decachlorobiphenyl	.063	mg/kg	76.0%	(30 - 150)				
2-Fluorobiphenyl	1210	ug/kg	74.0%	(40 - 113)				
2-Fluorophenol	1940	ug/kg	59.0%	(25 - 110)				
Nitrobenzene-d5	1100	ug/kg	67.0%	(36 - 113)				
Phenol-d5	2240	ug/kg	68.0%	(28 - 111)				



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August 1, 2007

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1129 W. Governor Road
Hershey, PA 17033

Lab ID #: **9693983005**
Received: 07/17/07 16:30
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Page: 42 Of 76

Project Name: **YORK RDA - NORTHWEST TRIANGLE**
Workorder ID: **Soils-8260B, 8270C, PCBs, Metals**

PO#: 07214
COC Number:

Sample ID: **A-2-SS2[6]**
Date Collected: 07/17/07 15:00

Matrix: Solid
Collected by: Mr. Dan Buterbaugh

Surrogates (continued)	Result	Units	Recovery	Limits
4-Bromofluorobenzene	39.7	ug/kg	118.0%	(51 - 128)
Tetrachloro-m-xylene	.068	mg/kg	82.0%	(30 - 136)
Terphenyl-d14	1220	ug/kg	74.0%	(35 - 135)

Comments:

One or more of the method 8260 internal standards were recovered outside of the control limits. The sample was re-analyzed with similar results, indicating a significant matrix interference.

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

Raymond J. Martrano
Laboratory Manager



Certificate of Analysis

August 1, 2007

Mr. Dan Buterbaugh
ARM Group Inc.
1129 W. Governor Road
Hershey, PA 17033

Lab ID #: **9693983006**
Received: 07/17/07 16:30
Discard: 08/15/07

Page: 43 Of 76

Project Name: **YORK RDA - NORTHWEST TRIANGLE**
Workorder ID: **Soils-8260B, 8270C, PCBs, Metals**

PO#: 07214
COC Number:

Sample ID: **A-2-SS3[6]**
Date Collected: 07/17/07 15:10

Matrix: Solid
Collected by: Mr. Dan Buterbaugh

Analysis Parameter	Result	Units	RDL	Method	Completed	Prep Date	By	Cntr
VOLATILE ORGANICS								
Acetone	909	ug/kg	32.9	8260/5035	07/19/07 04:59	07/17/07	ECR	B
Benzene	ND	ug/kg	2.6	8260/5035	07/19/07 04:59	07/17/07	ECR	B
Bromochloromethane	ND	ug/kg	2.6	8260/5035	07/19/07 04:59	07/17/07	ECR	B
Bromodichloromethane	ND	ug/kg	2.6	8260/5035	07/19/07 04:59	07/17/07	ECR	B
Bromoform	ND	ug/kg	2.6	8260/5035	07/19/07 04:59	07/17/07	ECR	B
Bromomethane	ND	ug/kg	5.3	8260/5035	07/19/07 04:59	07/17/07	ECR	B
2-Butanone	ND	ug/kg	13.1	8260/5035	07/19/07 04:59	07/17/07	ECR	B
Carbon Disulfide	ND	ug/kg	2.6	8260/5035	07/19/07 04:59	07/17/07	ECR	B
Carbon Tetrachloride	ND	ug/kg	2.6	8260/5035	07/19/07 04:59	07/17/07	ECR	B
Chlorobenzene	ND	ug/kg	2.6	8260/5035	07/19/07 04:59	07/17/07	ECR	B
Chlorodibromomethane	ND	ug/kg	2.6	8260/5035	07/19/07 04:59	07/17/07	ECR	B
Chloroethane	ND	ug/kg	2.6	8260/5035	07/19/07 04:59	07/17/07	ECR	B
Chloroform	ND	ug/kg	2.6	8260/5035	07/19/07 04:59	07/17/07	ECR	B
Chloromethane	ND	ug/kg	2.6	8260/5035	07/19/07 04:59	07/17/07	ECR	B
1,2-Dibromo-3-chloropropane	ND	ug/kg	5.3	8260/5035	07/19/07 04:59	07/17/07	ECR	B
1,2-Dibromoethane	ND	ug/kg	2.6	8260/5035	07/19/07 04:59	07/17/07	ECR	B
1,1-Dichloroethane	ND	ug/kg	2.6	8260/5035	07/19/07 04:59	07/17/07	ECR	B
1,2-Dichloroethane	ND	ug/kg	2.6	8260/5035	07/19/07 04:59	07/17/07	ECR	B
1,1-Dichloroethene	ND	ug/kg	2.6	8260/5035	07/19/07 04:59	07/17/07	ECR	B
cis-1,2-Dichloroethene	ND	ug/kg	2.6	8260/5035	07/19/07 04:59	07/17/07	ECR	B



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Lab ID #: **9693983006**
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Page: 44 Of 76

Project Name: **YORK RDA - NORTHWEST TRIANGLE**
Workorder ID: **Soils-8260B, 8270C, PCBs, Metals**

PO#: 07214
COC Number:

Sample ID: **A-2-SS3[6]**
Date Collected: 07/17/07 15:10

Matrix: Solid
Collected by: Mr. Dan Buterbaugh

Analysis Parameter	Result	Units	RDL	Method	Completed	Prep Date	By	Cntr
VOLATILE ORGANICS (continued)								
trans-1,2-Dichloroethene	ND	ug/kg	2.6	8260/5035	07/19/07 04:59	07/17/07	ECR	B
1,2-Dichloropropane	ND	ug/kg	2.6	8260/5035	07/19/07 04:59	07/17/07	ECR	B
cis-1,3-Dichloropropene	ND	ug/kg	2.6	8260/5035	07/19/07 04:59	07/17/07	ECR	B
trans-1,3-Dichloropropene	ND	ug/kg	2.6	8260/5035	07/19/07 04:59	07/17/07	ECR	B
Ethylbenzene	ND	ug/kg	2.6	8260/5035	07/19/07 04:59	07/17/07	ECR	B
2-Hexanone	ND	ug/kg	13.1	8260/5035	07/19/07 04:59	07/17/07	ECR	B
4-Methyl-2-Pentanone(MIBK)	ND	ug/kg	13.1	8260/5035	07/19/07 04:59	07/17/07	ECR	B
Methylene Chloride	ND	ug/kg	2.6	8260/5035	07/19/07 04:59	07/17/07	ECR	B
Styrene	ND	ug/kg	2.6	8260/5035	07/19/07 04:59	07/17/07	ECR	B
1,1,2,2-Tetrachloroethane	ND	ug/kg	2.6	8260/5035	07/19/07 04:59	07/17/07	ECR	B
Tetrachloroethene	ND	ug/kg	2.6	8260/5035	07/19/07 04:59	07/17/07	ECR	B
Toluene	ND	ug/kg	2.6	8260/5035	07/19/07 04:59	07/17/07	ECR	B
Total Xylenes	ND	ug/kg	7.9	8260/5035	07/19/07 04:59	07/17/07	ECR	B
1,1,1-Trichloroethane	ND	ug/kg	2.6	8260/5035	07/19/07 04:59	07/17/07	ECR	B
1,1,2-Trichloroethane	ND	ug/kg	2.6	8260/5035	07/19/07 04:59	07/17/07	ECR	B
Trichloroethene	ND	ug/kg	2.6	8260/5035	07/19/07 04:59	07/17/07	ECR	B
Vinyl Chloride	ND	ug/kg	2.6	8260/5035	07/19/07 04:59	07/17/07	ECR	B
o-Xylene	ND	ug/kg	2.6	8260/5035	07/19/07 04:59	07/17/07	ECR	B
mp-Xylene	6.5	ug/kg	5.3	8260/5035	07/19/07 04:59	07/17/07	ECR	B



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Lab ID #: **9693983006**
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Page: 45 Of 76

Project Name: **YORK RDA - NORTHWEST TRIANGLE**
Workorder ID: **Soils-8260B, 8270C, PCBs, Metals**

PO#: 07214
COC Number:

Sample ID: **A-2-SS3[6]**
Date Collected: 07/17/07 15:10

Matrix: Solid
Collected by: Mr. Dan Buterbaugh

Analysis Parameter	Result	Units	RDL	Method	Completed	Prep Date	By	Cntr
SEMIVOLATILES								
Acenaphthene	ND	ug/kg	75	SW846 8270C	07/28/07 14:16	07/24/07	TTR	D2
Acenaphthylene	309	ug/kg	75	SW846 8270C	07/28/07 14:16	07/24/07	TTR	D2
Anthracene	149	ug/kg	75	SW846 8270C	07/28/07 14:16	07/24/07	TTR	D2
Benzo(a)anthracene	670	ug/kg	75	SW846 8270C	07/28/07 14:16	07/24/07	TTR	D2
Benzo(a)pyrene	925	ug/kg	75	SW846 8270C	07/28/07 14:16	07/24/07	TTR	D2
Benzo(b)fluoranthene	1370	ug/kg	75	SW846 8270C	07/28/07 14:16	07/24/07	TTR	D2
Benzo(g,h,i)perylene	143	ug/kg	75	SW846 8270C	07/28/07 14:16	07/24/07	TTR	D2
Benzo(k)fluoranthene	1170	ug/kg	75	SW846 8270C	07/28/07 14:16	07/24/07	TTR	D2
4-Bromophenyl-phenylether	ND	ug/kg	107	SW846 8270C	07/28/07 14:16	07/24/07	TTR	D2
Butylbenzylphthalate	ND	ug/kg	107	SW846 8270C	07/28/07 14:16	07/24/07	TTR	D2
Carbazole	ND	ug/kg	107	SW846 8270C	07/28/07 14:16	07/24/07	TTR	D2
4-Chloro-3-methylphenol	ND	ug/kg	288	SW846 8270C	07/28/07 14:16	07/24/07	TTR	D2
4-Chloroaniline	ND	ug/kg	288	SW846 8270C	07/28/07 14:16	07/24/07	TTR	D2
Bis(2-Chloroethoxy)methane	ND	ug/kg	107	SW846 8270C	07/28/07 14:16	07/24/07	TTR	D2
Bis(2-Chloroethyl)ether	ND	ug/kg	107	SW846 8270C	07/28/07 14:16	07/24/07	TTR	D2
bis(2-Chloroisopropyl)ether	ND	ug/kg	107	SW846 8270C	07/28/07 14:16	07/24/07	TTR	D2
2-Chloronaphthalene	ND	ug/kg	107	SW846 8270C	07/28/07 14:16	07/24/07	TTR	D2
2-Chlorophenol	ND	ug/kg	288	SW846 8270C	07/28/07 14:16	07/24/07	TTR	D2
4-Chlorophenyl-phenylether	ND	ug/kg	107	SW846 8270C	07/28/07 14:16	07/24/07	TTR	D2
Chrysene	998	ug/kg	75	SW846 8270C	07/28/07 14:16	07/24/07	TTR	D2



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Page: 46 Of 76

Project Name: **YORK RDA - NORTHWEST TRIANGLE**
Workorder ID: **Soils-8260B, 8270C, PCBs, Metals**

PO#: 07214
COC Number:

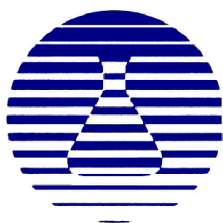
Sample ID: **A-2-SS3[6]**

Matrix: Solid

Date Collected: 07/17/07 15:10

Collected by: Mr. Dan Buterbaugh

Analysis Parameter	Result	Units	RDL	Method	Completed	Prep Date	By	Cntr
SEMIVOLATILES (continued)								
mp-Cresol	ND	ug/kg	288	SW846 8270C	07/28/07 14:16	07/24/07	TTR	D2
o-Cresol	ND	ug/kg	288	SW846 8270C	07/28/07 14:16	07/24/07	TTR	D2
Di-n-Butylphthalate	ND	ug/kg	107	SW846 8270C	07/28/07 14:16	07/24/07	TTR	D2
Di-n-Octylphthalate	ND	ug/kg	288	SW846 8270C	07/28/07 14:16	07/24/07	TTR	D2
Dibenzo(a,h)anthracene	96	ug/kg	75	SW846 8270C	07/28/07 14:16	07/24/07	TTR	D2
Dibenzofuran	ND	ug/kg	107	SW846 8270C	07/28/07 14:16	07/24/07	TTR	D2
1,2-Dichlorobenzene	ND	ug/kg	107	SW846 8270C	07/28/07 14:16	07/24/07	TTR	D2
1,3-Dichlorobenzene	ND	ug/kg	107	SW846 8270C	07/28/07 14:16	07/24/07	TTR	D2
1,4-Dichlorobenzene	ND	ug/kg	107	SW846 8270C	07/28/07 14:16	07/24/07	TTR	D2
3,3-Dichlorobenzidine	ND	ug/kg	107	SW846 8270C	07/28/07 14:16	07/24/07	TTR	D2
2,4-Dichlorophenol	ND	ug/kg	288	SW846 8270C	07/28/07 14:16	07/24/07	TTR	D2
Diethylphthalate	ND	ug/kg	107	SW846 8270C	07/28/07 14:16	07/24/07	TTR	D2
2,4-Dimethylphenol	ND	ug/kg	288	SW846 8270C	07/28/07 14:16	07/24/07	TTR	D2
Dimethylphthalate	ND	ug/kg	107	SW846 8270C	07/28/07 14:16	07/24/07	TTR	D2
2,4-Dinitrophenol	ND	ug/kg	576	SW846 8270C	07/28/07 14:16	07/24/07	TTR	D2
2,4-Dinitrotoluene	ND	ug/kg	107	SW846 8270C	07/28/07 14:16	07/24/07	TTR	D2
2,6-Dinitrotoluene	ND	ug/kg	107	SW846 8270C	07/28/07 14:16	07/24/07	TTR	D2
bis(2-Ethylhexyl)phthalate	ND	ug/kg	107	SW846 8270C	07/28/07 14:16	07/24/07	TTR	D2
Fluoranthene	1240	ug/kg	75	SW846 8270C	07/28/07 14:16	07/24/07	TTR	D2
Fluorene	ND	ug/kg	75	SW846 8270C	07/28/07 14:16	07/24/07	TTR	D2



Certificate of Analysis

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Hershey, PA 17033

Lab ID #: **9693983006**
Received: 07/17/07 16:30
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Page: 47 Of 76

Project Name: **YORK RDA - NORTHWEST TRIANGLE**
Workorder ID: **Soils-8260B, 8270C, PCBs, Metals**

PO#: 07214
COC Number:

Sample ID: **A-2-SS3[6]**
Date Collected: 07/17/07 15:10

Matrix: Solid
Collected by: Mr. Dan Buterbaugh

Analysis Parameter	Result	Units	RDL	Method	Completed	Prep Date	By	Cntr
SEMIVOLATILES (continued)								
Hexachlorobenzene	ND	ug/kg	107	SW846 8270C	07/28/07 14:16	07/24/07	TTR	D2
Hexachlorobutadiene	ND	ug/kg	107	SW846 8270C	07/28/07 14:16	07/24/07	TTR	D2
Hexachlorocyclopentadiene	ND	ug/kg	288	SW846 8270C	07/28/07 14:16	07/24/07	TTR	D2
Hexachloroethane	ND	ug/kg	107	SW846 8270C	07/28/07 14:16	07/24/07	TTR	D2
Indeno(1,2,3-cd)pyrene	277	ug/kg	75	SW846 8270C	07/28/07 14:16	07/24/07	TTR	D2
Isophorone	ND	ug/kg	107	SW846 8270C	07/28/07 14:16	07/24/07	TTR	D2
2-Methyl-4,6-dinitrophenol	ND	ug/kg	288	SW846 8270C	07/28/07 14:16	07/24/07	TTR	D2
2-Methylnaphthalene	ND	ug/kg	75	SW846 8270C	07/28/07 14:16	07/24/07	TTR	D2
Naphthalene	ND	ug/kg	75	SW846 8270C	07/28/07 14:16	07/24/07	TTR	D2
2-Nitroaniline	ND	ug/kg	107	SW846 8270C	07/28/07 14:16	07/24/07	TTR	D2
3-Nitroaniline	ND	ug/kg	288	SW846 8270C	07/28/07 14:16	07/24/07	TTR	D2
4-Nitroaniline	ND	ug/kg	288	SW846 8270C	07/28/07 14:16	07/24/07	TTR	D2
Nitrobenzene	ND	ug/kg	107	SW846 8270C	07/28/07 14:16	07/24/07	TTR	D2
2-Nitrophenol	ND	ug/kg	288	SW846 8270C	07/28/07 14:16	07/24/07	TTR	D2
4-Nitrophenol	ND	ug/kg	576	SW846 8270C	07/28/07 14:16	07/24/07	TTR	D2
N-Nitroso-di-n-propylamine	ND	ug/kg	107	SW846 8270C	07/28/07 14:16	07/24/07	TTR	D2
N-Nitrosodiphenylamine	ND	ug/kg	107	SW846 8270C	07/28/07 14:16	07/24/07	TTR	D2
Pentachlorophenol	ND	ug/kg	576	SW846 8270C	07/28/07 14:16	07/24/07	TTR	D2
Phenanthrene	470	ug/kg	75	SW846 8270C	07/28/07 14:16	07/24/07	TTR	D2
Phenol	ND	ug/kg	288	SW846 8270C	07/28/07 14:16	07/24/07	TTR	D2



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Certificate of Analysis

August 1, 2007

Mr. Dan Buterbaugh
ARM Group Inc.
1129 W. Governor Road
Hershey, PA 17033

Lab ID #: **9693983006**
Received: 07/17/07 16:30
Discard: 08/15/07

Page: 48 Of 76

Project Name: **YORK RDA - NORTHWEST TRIANGLE**
Workorder ID: **Soils-8260B, 8270C, PCBs, Metals**

PO#: 07214
COC Number:

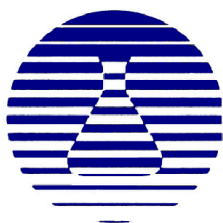
Sample ID: **A-2-SS3[6]**

Matrix: Solid

Date Collected: 07/17/07 15:10

Collected by: Mr. Dan Buterbaugh

Analysis Parameter	Result	Units	RDL	Method	Completed	Prep Date	By	Cntr
SEMIVOLATILES (continued)								
Pyrene	1040	ug/kg	75	SW846 8270C	07/28/07 14:16	07/24/07	TTR	D2
1,2,4-Trichlorobenzene	ND	ug/kg	107	SW846 8270C	07/28/07 14:16	07/24/07	TTR	D2
2,4,5-Trichlorophenol	ND	ug/kg	288	SW846 8270C	07/28/07 14:16	07/24/07	TTR	D2
2,4,6-Trichlorophenol	ND	ug/kg	288	SW846 8270C	07/28/07 14:16	07/24/07	TTR	D2
PCB'S								
Aroclor-1016	ND	mg/kg	0.035	SW846 8082	07/24/07 10:05	07/20/07	JJH	D1
Aroclor-1221	ND	mg/kg	0.035	SW846 8082	07/24/07 10:05	07/20/07	JJH	D1
Aroclor-1232	ND	mg/kg	0.035	SW846 8082	07/24/07 10:05	07/20/07	JJH	D1
Aroclor-1242	ND	mg/kg	0.035	SW846 8082	07/24/07 10:05	07/20/07	JJH	D1
Aroclor-1248	ND	mg/kg	0.035	SW846 8082	07/24/07 10:05	07/20/07	JJH	D1
Aroclor-1254	ND	mg/kg	0.035	SW846 8082	07/24/07 10:05	07/20/07	JJH	D1
Aroclor-1260	0.039	mg/kg	0.035	SW846 8082	07/24/07 10:05	07/20/07	JJH	D1
WET CHEMISTRY								
Moisture	6.5	%	0.1	SM20-2540 G	07/18/07 05:15	07/18/07	KMW	D
Total Solids	93.5	%	0.1	SM20-2540 G	07/18/07 05:15	07/18/07	KMW	D



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Page: 49 Of 76

Project Name: **YORK RDA - NORTHWEST TRIANGLE**
Workorder ID: **Soils-8260B, 8270C, PCBs, Metals**

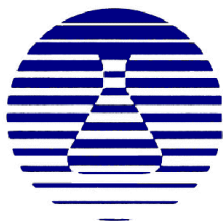
PO#: 07214
COC Number:

Sample ID: **A-2-SS3[6]**
Date Collected: 07/17/07 15:10

Matrix: Solid
Collected by: Mr. Dan Buterbaugh

Analysis Parameter	Result	Units	RDL	Method	Completed	Prep Date	By	Cntr
METALS								
Arsenic, Total	54	mg/kg	3	SW846 6010B	07/26/07 17:06	07/25/07	JWK	D
Barium, Total	110	mg/kg	1	SW846 6010B	07/26/07 17:06	07/25/07	JWK	D
Cadmium, Total	1.2	mg/kg	0.5	SW846 6010B	07/26/07 17:06	07/25/07	JWK	D
Chromium, Total	23.8	mg/kg	1.0	SW846 6010B	07/26/07 17:06	07/25/07	JWK	D
Lead, Total	164	mg/kg	1	SW846 6010B	07/26/07 17:06	07/25/07	JWK	D
Mercury, Total	0.24	mg/kg	0.20	SW846 7471B	07/29/07 21:29	07/27/07	AGM	D3
Selenium, Total	ND	mg/kg	5	SW846 6010B	07/26/07 17:06	07/25/07	JWK	D
Silver, Total	ND	mg/kg	0.5	SW846 6010B	07/26/07 17:06	07/25/07	JWK	D
Surrogates								
	Result	Units	Recovery	Limits				
2,4,6-Tribromophenol	2240	ug/kg	67.0%	(24 - 130)				
1,2-Dichloroethane-d4	34.8	ug/kg	95.0%	(56 - 124)				
Dibromofluoromethane	41.1	ug/kg	112.0%	(62 - 123)				
Toluene-d8 ¹	53	ug/kg	144.0%	(59 - 131)				
Decachlorobiphenyl	.059	mg/kg	71.0%	(30 - 150)				
2-Fluorobiphenyl	1060	ug/kg	64.0%	(40 - 113)				
2-Fluorophenol	1820	ug/kg	55.0%	(25 - 110)				
Nitrobenzene-d5	987	ug/kg	59.0%	(36 - 113)				
Phenol-d5	2070	ug/kg	62.0%	(28 - 111)				
4-Bromofluorobenzene	32.2	ug/kg	87.0%	(51 - 128)				

1 - The surrogate recovery was outside of the established control limits.



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Lab ID #: **9693983006**
Received: 07/17/07 16:30
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Page: 50 Of 76

Project Name: **YORK RDA - NORTHWEST TRIANGLE**
Workorder ID: **Soils-8260B, 8270C, PCBs, Metals**

PO#: 07214
COC Number:

Sample ID: **A-2-SS3[6]**
Date Collected: 07/17/07 15:10

Matrix: Solid
Collected by: Mr. Dan Buterbaugh

Surrogates (continued)	Result	Units	Recovery	Limits
Tetrachloro-m-xylene	.066	mg/kg	81.0%	(30 - 136)
Terphenyl-d14	1000	ug/kg	60.0%	(35 - 135)

Comments:

One or more of the method 8260 internal standards and surrogates were recovered outside of the control limits. The sample was re-analyzed with similar results, indicating a significant matrix interference.

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

Raymond J. Martrano
Laboratory Manager



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Lab ID #: **9693983007**
Received: 07/17/07 16:30
Discard: 08/15/07

Page: 51 Of 76

Project Name: **YORK RDA - NORTHWEST TRIANGLE**
Workorder ID: **Soils-8260B, 8270C, PCBs, Metals**

PO#: 07214
COC Number:

Sample ID: **A-2-SS4[6]**
Date Collected: 07/17/07 15:25

Matrix: Solid
Collected by: Mr. Dan Buterbaugh

Analysis Parameter	Result	Units	RDL	Method	Completed	Prep Date	By	Cntr
VOLATILE ORGANICS								
Acetone	640	ug/kg	34.4	8260/5035	07/19/07 05:30	07/17/07	ECR	B
Benzene	2.8	ug/kg	2.7	8260/5035	07/19/07 05:30	07/17/07	ECR	B
Bromochloromethane	ND	ug/kg	2.7	8260/5035	07/19/07 05:30	07/17/07	ECR	B
Bromodichloromethane	ND	ug/kg	2.7	8260/5035	07/19/07 05:30	07/17/07	ECR	B
Bromoform	ND	ug/kg	2.7	8260/5035	07/19/07 05:30	07/17/07	ECR	B
Bromomethane	ND	ug/kg	5.5	8260/5035	07/19/07 05:30	07/17/07	ECR	B
2-Butanone	ND	ug/kg	13.7	8260/5035	07/19/07 05:30	07/17/07	ECR	B
Carbon Disulfide	ND	ug/kg	2.7	8260/5035	07/19/07 05:30	07/17/07	ECR	B
Carbon Tetrachloride	ND	ug/kg	2.7	8260/5035	07/19/07 05:30	07/17/07	ECR	B
Chlorobenzene	ND	ug/kg	2.7	8260/5035	07/19/07 05:30	07/17/07	ECR	B
Chlorodibromomethane	ND	ug/kg	2.7	8260/5035	07/19/07 05:30	07/17/07	ECR	B
Chloroethane	ND	ug/kg	2.7	8260/5035	07/19/07 05:30	07/17/07	ECR	B
Chloroform	ND	ug/kg	2.7	8260/5035	07/19/07 05:30	07/17/07	ECR	B
Chloromethane	ND	ug/kg	2.7	8260/5035	07/19/07 05:30	07/17/07	ECR	B
1,2-Dibromo-3-chloropropane	ND	ug/kg	5.5	8260/5035	07/19/07 05:30	07/17/07	ECR	B
1,2-Dibromoethane	ND	ug/kg	2.7	8260/5035	07/19/07 05:30	07/17/07	ECR	B
1,1-Dichloroethane	ND	ug/kg	2.7	8260/5035	07/19/07 05:30	07/17/07	ECR	B
1,2-Dichloroethane	ND	ug/kg	2.7	8260/5035	07/19/07 05:30	07/17/07	ECR	B
1,1-Dichloroethene	ND	ug/kg	2.7	8260/5035	07/19/07 05:30	07/17/07	ECR	B
cis-1,2-Dichloroethene	ND	ug/kg	2.7	8260/5035	07/19/07 05:30	07/17/07	ECR	B



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Page: 52 Of 76

Project Name: **YORK RDA - NORTHWEST TRIANGLE**
Workorder ID: **Soils-8260B, 8270C, PCBs, Metals**

PO#: 07214
COC Number:

Sample ID: **A-2-SS4[6]**
Date Collected: 07/17/07 15:25

Matrix: Solid
Collected by: Mr. Dan Buterbaugh

Analysis Parameter	Result	Units	RDL	Method	Completed	Prep Date	By	Cntr
VOLATILE ORGANICS (continued)								
trans-1,2-Dichloroethene	ND	ug/kg	2.7	8260/5035	07/19/07 05:30	07/17/07	ECR	B
1,2-Dichloropropane	ND	ug/kg	2.7	8260/5035	07/19/07 05:30	07/17/07	ECR	B
cis-1,3-Dichloropropene	ND	ug/kg	2.7	8260/5035	07/19/07 05:30	07/17/07	ECR	B
trans-1,3-Dichloropropene	ND	ug/kg	2.7	8260/5035	07/19/07 05:30	07/17/07	ECR	B
Ethylbenzene	ND	ug/kg	2.7	8260/5035	07/19/07 05:30	07/17/07	ECR	B
2-Hexanone	ND	ug/kg	13.7	8260/5035	07/19/07 05:30	07/17/07	ECR	B
4-Methyl-2-Pentanone(MIBK)	ND	ug/kg	13.7	8260/5035	07/19/07 05:30	07/17/07	ECR	B
Methylene Chloride	ND	ug/kg	2.7	8260/5035	07/19/07 05:30	07/17/07	ECR	B
Styrene	ND	ug/kg	2.7	8260/5035	07/19/07 05:30	07/17/07	ECR	B
1,1,2,2-Tetrachloroethane	ND	ug/kg	2.7	8260/5035	07/19/07 05:30	07/17/07	ECR	B
Tetrachloroethene	ND	ug/kg	2.7	8260/5035	07/19/07 05:30	07/17/07	ECR	B
Toluene	2.8	ug/kg	2.7	8260/5035	07/19/07 05:30	07/17/07	ECR	B
Total Xylenes	8.4	ug/kg	8.2	8260/5035	07/19/07 05:30	07/17/07	ECR	B
1,1,1-Trichloroethane	ND	ug/kg	2.7	8260/5035	07/19/07 05:30	07/17/07	ECR	B
1,1,2-Trichloroethane	ND	ug/kg	2.7	8260/5035	07/19/07 05:30	07/17/07	ECR	B
Trichloroethene	ND	ug/kg	2.7	8260/5035	07/19/07 05:30	07/17/07	ECR	B
Vinyl Chloride	ND	ug/kg	2.7	8260/5035	07/19/07 05:30	07/17/07	ECR	B
o-Xylene	ND	ug/kg	2.7	8260/5035	07/19/07 05:30	07/17/07	ECR	B
mp-Xylene	6.8	ug/kg	5.5	8260/5035	07/19/07 05:30	07/17/07	ECR	B



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Lab ID #: **9693983007**
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Page: 53 Of 76

Project Name: **YORK RDA - NORTHWEST TRIANGLE**
Workorder ID: **Soils-8260B, 8270C, PCBs, Metals**

PO#: 07214
COC Number:

Sample ID: **A-2-SS4[6]**

Matrix: Solid

Date Collected: 07/17/07 15:25

Collected by: Mr. Dan Buterbaugh

Analysis Parameter	Result	Units	RDL	Method	Completed	Prep Date	By	Cntr
SEMIVOLATILES								
Acenaphthene	ND	ug/kg	306	SW846 8270C	07/31/07 12:57	07/24/07	DRS	D2
Acenaphthylene	1180	ug/kg	306	SW846 8270C	07/31/07 12:57	07/24/07	DRS	D2
Anthracene	1010	ug/kg	306	SW846 8270C	07/31/07 12:57	07/24/07	DRS	D2
Benzo(a)anthracene	3930	ug/kg	306	SW846 8270C	07/31/07 12:57	07/24/07	DRS	D2
Benzo(a)pyrene	5080	ug/kg	306	SW846 8270C	07/31/07 12:57	07/24/07	DRS	D2
Benzo(b)fluoranthene	5900	ug/kg	306	SW846 8270C	07/31/07 12:57	07/24/07	DRS	D2
Benzo(g,h,i)perylene	3220	ug/kg	306	SW846 8270C	07/31/07 12:57	07/24/07	DRS	D2
Benzo(k)fluoranthene	4730	ug/kg	306	SW846 8270C	07/31/07 12:57	07/24/07	DRS	D2
4-Bromophenyl-phenylether	ND	ug/kg	437	SW846 8270C	07/31/07 12:57	07/24/07	DRS	D2
Butylbenzylphthalate	ND	ug/kg	437	SW846 8270C	07/31/07 12:57	07/24/07	DRS	D2
Carbazole	ND	ug/kg	437	SW846 8270C	07/31/07 12:57	07/24/07	DRS	D2
4-Chloro-3-methylphenol	ND	ug/kg	1180	SW846 8270C	07/31/07 12:57	07/24/07	DRS	D2
4-Chloroaniline	ND	ug/kg	1180	SW846 8270C	07/31/07 12:57	07/24/07	DRS	D2
Bis(2-Chloroethoxy)methane	ND	ug/kg	437	SW846 8270C	07/31/07 12:57	07/24/07	DRS	D2
Bis(2-Chloroethyl)ether	ND	ug/kg	437	SW846 8270C	07/31/07 12:57	07/24/07	DRS	D2
bis(2-Chloroisopropyl)ether	ND	ug/kg	437	SW846 8270C	07/31/07 12:57	07/24/07	DRS	D2
2-Chloronaphthalene	ND	ug/kg	437	SW846 8270C	07/31/07 12:57	07/24/07	DRS	D2
2-Chlorophenol	ND	ug/kg	1180	SW846 8270C	07/31/07 12:57	07/24/07	DRS	D2
4-Chlorophenyl-phenylether	ND	ug/kg	437	SW846 8270C	07/31/07 12:57	07/24/07	DRS	D2
Chrysene	4870	ug/kg	306	SW846 8270C	07/31/07 12:57	07/24/07	DRS	D2



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Page: 54 Of 76

Project Name: **YORK RDA - NORTHWEST TRIANGLE**
Workorder ID: **Soils-8260B, 8270C, PCBs, Metals**

PO#: 07214
COC Number:

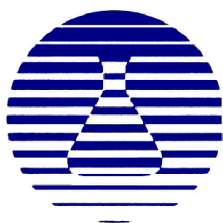
Sample ID: **A-2-SS4[6]**

Matrix: Solid

Date Collected: 07/17/07 15:25

Collected by: Mr. Dan Buterbaugh

Analysis Parameter	Result	Units	RDL	Method	Completed	Prep Date	By	Cntr
SEMIVOLATILES (continued)								
mp-Cresol	ND	ug/kg	1180	SW846 8270C	07/31/07 12:57	07/24/07	DRS	D2
o-Cresol	ND	ug/kg	1180	SW846 8270C	07/31/07 12:57	07/24/07	DRS	D2
Di-n-Butylphthalate	ND	ug/kg	437	SW846 8270C	07/31/07 12:57	07/24/07	DRS	D2
Di-n-Octylphthalate	ND	ug/kg	1180	SW846 8270C	07/31/07 12:57	07/24/07	DRS	D2
Dibenzo(a,h)anthracene	1420	ug/kg	306	SW846 8270C	07/31/07 12:57	07/24/07	DRS	D2
Dibenzofuran	ND	ug/kg	437	SW846 8270C	07/31/07 12:57	07/24/07	DRS	D2
1,2-Dichlorobenzene	ND	ug/kg	437	SW846 8270C	07/31/07 12:57	07/24/07	DRS	D2
1,3-Dichlorobenzene	ND	ug/kg	437	SW846 8270C	07/31/07 12:57	07/24/07	DRS	D2
1,4-Dichlorobenzene	ND	ug/kg	437	SW846 8270C	07/31/07 12:57	07/24/07	DRS	D2
3,3-Dichlorobenzidine	ND	ug/kg	437	SW846 8270C	07/31/07 12:57	07/24/07	DRS	D2
2,4-Dichlorophenol	ND	ug/kg	1180	SW846 8270C	07/31/07 12:57	07/24/07	DRS	D2
Diethylphthalate	ND	ug/kg	437	SW846 8270C	07/31/07 12:57	07/24/07	DRS	D2
2,4-Dimethylphenol	ND	ug/kg	1180	SW846 8270C	07/31/07 12:57	07/24/07	DRS	D2
Dimethylphthalate	ND	ug/kg	437	SW846 8270C	07/31/07 12:57	07/24/07	DRS	D2
2,4-Dinitrophenol	ND	ug/kg	2360	SW846 8270C	07/31/07 12:57	07/24/07	DRS	D2
2,4-Dinitrotoluene	ND	ug/kg	437	SW846 8270C	07/31/07 12:57	07/24/07	DRS	D2
2,6-Dinitrotoluene	ND	ug/kg	437	SW846 8270C	07/31/07 12:57	07/24/07	DRS	D2
bis(2-Ethylhexyl)phthalate	ND	ug/kg	437	SW846 8270C	07/31/07 12:57	07/24/07	DRS	D2
Fluoranthene	6620	ug/kg	306	SW846 8270C	07/31/07 12:57	07/24/07	DRS	D2
Fluorene	ND	ug/kg	306	SW846 8270C	07/31/07 12:57	07/24/07	DRS	D2



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Page: 55 Of 76

Project Name: **YORK RDA - NORTHWEST TRIANGLE**
Workorder ID: **Soils-8260B, 8270C, PCBs, Metals**

PO#: 07214
COC Number:

Sample ID: **A-2-SS4[6]**

Matrix: Solid

Date Collected: 07/17/07 15:25

Collected by: Mr. Dan Buterbaugh

Analysis Parameter	Result	Units	RDL	Method	Completed	Prep Date	By	Cntr
SEMIVOLATILES (continued)								
Hexachlorobenzene	ND	ug/kg	437	SW846 8270C	07/31/07 12:57	07/24/07	DRS	D2
Hexachlorobutadiene	ND	ug/kg	437	SW846 8270C	07/31/07 12:57	07/24/07	DRS	D2
Hexachlorocyclopentadiene	ND	ug/kg	1180	SW846 8270C	07/31/07 12:57	07/24/07	DRS	D2
Hexachloroethane	ND	ug/kg	437	SW846 8270C	07/31/07 12:57	07/24/07	DRS	D2
Indeno(1,2,3-cd)pyrene	3920	ug/kg	306	SW846 8270C	07/31/07 12:57	07/24/07	DRS	D2
Isophorone	ND	ug/kg	437	SW846 8270C	07/31/07 12:57	07/24/07	DRS	D2
2-Methyl-4,6-dinitrophenol	ND	ug/kg	1180	SW846 8270C	07/31/07 12:57	07/24/07	DRS	D2
2-Methylnaphthalene	ND	ug/kg	306	SW846 8270C	07/31/07 12:57	07/24/07	DRS	D2
Naphthalene	ND	ug/kg	306	SW846 8270C	07/31/07 12:57	07/24/07	DRS	D2
2-Nitroaniline	ND	ug/kg	437	SW846 8270C	07/31/07 12:57	07/24/07	DRS	D2
3-Nitroaniline	ND	ug/kg	1180	SW846 8270C	07/31/07 12:57	07/24/07	DRS	D2
4-Nitroaniline	ND	ug/kg	1180	SW846 8270C	07/31/07 12:57	07/24/07	DRS	D2
Nitrobenzene	ND	ug/kg	437	SW846 8270C	07/31/07 12:57	07/24/07	DRS	D2
2-Nitrophenol	ND	ug/kg	1180	SW846 8270C	07/31/07 12:57	07/24/07	DRS	D2
4-Nitrophenol	ND	ug/kg	2360	SW846 8270C	07/31/07 12:57	07/24/07	DRS	D2
N-Nitroso-di-n-propylamine	ND	ug/kg	437	SW846 8270C	07/31/07 12:57	07/24/07	DRS	D2
N-Nitrosodiphenylamine	ND	ug/kg	437	SW846 8270C	07/31/07 12:57	07/24/07	DRS	D2
Pentachlorophenol	ND	ug/kg	2360	SW846 8270C	07/31/07 12:57	07/24/07	DRS	D2
Phenanthrene	2580	ug/kg	306	SW846 8270C	07/31/07 12:57	07/24/07	DRS	D2
Phenol	ND	ug/kg	1180	SW846 8270C	07/31/07 12:57	07/24/07	DRS	D2



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Certificate of Analysis

August 1, 2007

Mr. Dan Buterbaugh
ARM Group Inc.
1129 W. Governor Road
Hershey, PA 17033

Lab ID #: **9693983007**
Received: 07/17/07 16:30
Discard: 08/15/07

Page: 56 Of 76

Project Name: **YORK RDA - NORTHWEST TRIANGLE**
Workorder ID: **Soils-8260B, 8270C, PCBs, Metals**

PO#: 07214
COC Number:

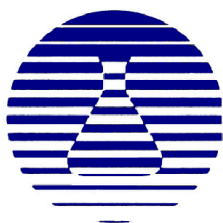
Sample ID: **A-2-SS4[6]**

Matrix: Solid

Date Collected: 07/17/07 15:25

Collected by: Mr. Dan Buterbaugh

Analysis Parameter	Result	Units	RDL	Method	Completed	Prep Date	By	Cntr
SEMIVOLATILES (continued)								
Pyrene	5590	ug/kg	306	SW846 8270C	07/31/07 12:57	07/24/07	DRS	D2
1,2,4-Trichlorobenzene	ND	ug/kg	437	SW846 8270C	07/31/07 12:57	07/24/07	DRS	D2
2,4,5-Trichlorophenol	ND	ug/kg	1180	SW846 8270C	07/31/07 12:57	07/24/07	DRS	D2
2,4,6-Trichlorophenol	ND	ug/kg	1180	SW846 8270C	07/31/07 12:57	07/24/07	DRS	D2
PCB'S								
Aroclor-1016	ND	mg/kg	0.037	SW846 8082	07/24/07 10:37	07/20/07	JJH	D1
Aroclor-1221	ND	mg/kg	0.037	SW846 8082	07/24/07 10:37	07/20/07	JJH	D1
Aroclor-1232	ND	mg/kg	0.037	SW846 8082	07/24/07 10:37	07/20/07	JJH	D1
Aroclor-1242	ND	mg/kg	0.037	SW846 8082	07/24/07 10:37	07/20/07	JJH	D1
Aroclor-1248	ND	mg/kg	0.037	SW846 8082	07/24/07 10:37	07/20/07	JJH	D1
Aroclor-1254	ND	mg/kg	0.037	SW846 8082	07/24/07 10:37	07/20/07	JJH	D1
Aroclor-1260	0.217	mg/kg	0.037	SW846 8082	07/24/07 10:37	07/20/07	JJH	D1
WET CHEMISTRY								
Moisture	10.6	%	0.1	SM20-2540 G	07/18/07 05:15	07/18/07	KMW	D
Total Solids	89.4	%	0.1	SM20-2540 G	07/18/07 05:15	07/18/07	KMW	D



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Page: 57 Of 76

Project Name: **YORK RDA - NORTHWEST TRIANGLE**
Workorder ID: **Soils-8260B, 8270C, PCBs, Metals**

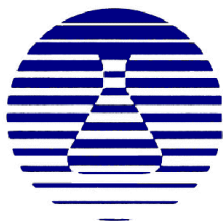
PO#: 07214
COC Number:

Sample ID: **A-2-SS4[6]**
Date Collected: 07/17/07 15:25

Matrix: Solid
Collected by: Mr. Dan Buterbaugh

Analysis Parameter	Result	Units	RDL	Method	Completed	Prep Date	By	Cntr
METALS								
Arsenic, Total	35	mg/kg	3	SW846 6010B	07/26/07 17:12	07/25/07	JWK	D
Barium, Total	106	mg/kg	1	SW846 6010B	07/26/07 17:12	07/25/07	JWK	D
Cadmium, Total	2.1	mg/kg	0.5	SW846 6010B	07/26/07 17:12	07/25/07	JWK	D
Chromium, Total	35.3	mg/kg	1.1	SW846 6010B	07/26/07 17:12	07/25/07	JWK	D
Lead, Total	266	mg/kg	1	SW846 6010B	07/26/07 17:12	07/25/07	JWK	D
Mercury, Total	ND	mg/kg	0.19	SW846 7471B	07/29/07 21:33	07/27/07	AGM	D3
Selenium, Total	ND	mg/kg	5	SW846 6010B	07/26/07 17:12	07/25/07	JWK	D
Silver, Total	ND	mg/kg	0.5	SW846 6010B	07/26/07 17:12	07/25/07	JWK	D
Surrogates								
	Result	Units	Recovery	Limits				
2,4,6-Tribromophenol	2360	ug/kg	72.0%	(24 - 130)				
1,2-Dichloroethane-d4	31.7	ug/kg	86.0%	(56 - 124)				
Dibromofluoromethane	36.4	ug/kg	99.0%	(62 - 123)				
Toluene-d8 ¹	52	ug/kg	141.0%	(59 - 131)				
Decachlorobiphenyl	.072	mg/kg	87.0%	(30 - 150)				
2-Fluorobiphenyl	1170	ug/kg	72.0%	(40 - 113)				
2-Fluorophenol	2030	ug/kg	62.0%	(25 - 110)				
Nitrobenzene-d5	1100	ug/kg	68.0%	(36 - 113)				
Phenol-d5	2270	ug/kg	70.0%	(28 - 111)				
4-Bromofluorobenzene	44.3	ug/kg	120.0%	(51 - 128)				

1 - The surrogate recovery was outside of the established control limits.



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Lab ID #: **9693983007**
Received: 07/17/07 16:30
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Page: 58 Of 76

Project Name: **YORK RDA - NORTHWEST TRIANGLE**
Workorder ID: **Soils-8260B, 8270C, PCBs, Metals**

PO#: 07214
COC Number:

Sample ID: **A-2-SS4[6]**
Date Collected: 07/17/07 15:25

Matrix: Solid
Collected by: Mr. Dan Buterbaugh

Surrogates (continued)	Result	Units	Recovery	Limits
Tetrachloro-m-xylene	.07	mg/kg	84.0%	(30 - 136)
Terphenyl-d14	1200	ug/kg	74.0%	(35 - 135)

Comments:

One or more of the method 8260 internal standards and surrogates were recovered outside of the control limits. The sample was re-analyzed with similar results, indicating a significant matrix interference.

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

Raymond J. Martrano
Laboratory Manager



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Hershey, PA 17033

Lab ID #: **9693983008**
Received: 07/17/07 16:30
Discard: 08/15/07

Page: 59 Of 76

Project Name: **YORK RDA - NORTHWEST TRIANGLE**
Workorder ID: **Soils-8260B, 8270C, PCBs, Metals**

PO#: 07214
COC Number:

Sample ID: **B-SS1[6]**
Date Collected: 07/17/07 15:35

Matrix: Solid
Collected by: Mr. Dan Buterbaugh

Analysis Parameter	Result	Units	RDL	Method	Completed	Prep Date	By	Cntr
VOLATILE ORGANICS								
Acetone	1140	ug/kg	536	8260/5035	07/24/07 10:32	07/17/07	JAH	A
Benzene	ND	ug/kg	1.9	8260/5035	07/19/07 06:31	07/17/07	ECR	B
Benzene	ND	ug/kg	53.6	8260/5035	07/24/07 10:32	07/17/07	JAH	A
Bromochloromethane	ND	ug/kg	1.9	8260/5035	07/19/07 06:31	07/17/07	ECR	B
Bromochloromethane	ND	ug/kg	53.6	8260/5035	07/24/07 10:32	07/17/07	JAH	A
Bromodichloromethane	ND	ug/kg	1.9	8260/5035	07/19/07 06:31	07/17/07	ECR	B
Bromodichloromethane	ND	ug/kg	53.6	8260/5035	07/24/07 10:32	07/17/07	JAH	A
Bromoform	ND	ug/kg	1.9	8260/5035	07/19/07 06:31	07/17/07	ECR	B
Bromoform	ND	ug/kg	53.6	8260/5035	07/24/07 10:32	07/17/07	JAH	A
Bromomethane	ND	ug/kg	3.8	8260/5035	07/19/07 06:31	07/17/07	ECR	B
Bromomethane	ND	ug/kg	53.6	8260/5035	07/24/07 10:32	07/17/07	JAH	A
2-Butanone	20.9	ug/kg	9.5	8260/5035	07/19/07 06:31	07/17/07	ECR	B
2-Butanone	ND	ug/kg	536	8260/5035	07/24/07 10:32	07/17/07	JAH	A
Carbon Disulfide	ND	ug/kg	1.9	8260/5035	07/19/07 06:31	07/17/07	ECR	B
Carbon Disulfide	ND	ug/kg	53.6	8260/5035	07/24/07 10:32	07/17/07	JAH	A
Carbon Tetrachloride	ND	ug/kg	1.9	8260/5035	07/19/07 06:31	07/17/07	ECR	B
Carbon Tetrachloride	ND	ug/kg	53.6	8260/5035	07/24/07 10:32	07/17/07	JAH	A
Chlorobenzene	ND	ug/kg	1.9	8260/5035	07/19/07 06:31	07/17/07	ECR	B
Chlorobenzene	ND	ug/kg	53.6	8260/5035	07/24/07 10:32	07/17/07	JAH	A
Chlorodibromomethane	ND	ug/kg	1.9	8260/5035	07/19/07 06:31	07/17/07	ECR	B



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Page: 60 Of 76

Project Name: **YORK RDA - NORTHWEST TRIANGLE**
Workorder ID: **Soils-8260B, 8270C, PCBs, Metals**

PO#: 07214
COC Number:

Sample ID: **B-SS1[6]**

Matrix: Solid

Date Collected: 07/17/07 15:35

Collected by: Mr. Dan Buterbaugh

Analysis Parameter	Result	Units	RDL	Method	Completed	Prep Date	By	Cntr
VOLATILE ORGANICS (continued)								
Chlorodibromomethane	ND	ug/kg	53.6	8260/5035	07/24/07 10:32	07/17/07	JAH	A
Chloroethane	ND	ug/kg	1.9	8260/5035	07/19/07 06:31	07/17/07	ECR	B
Chloroethane	ND	ug/kg	53.6	8260/5035	07/24/07 10:32	07/17/07	JAH	A
Chloroform	ND	ug/kg	1.9	8260/5035	07/19/07 06:31	07/17/07	ECR	B
Chloroform	ND	ug/kg	53.6	8260/5035	07/24/07 10:32	07/17/07	JAH	A
Chloromethane	ND	ug/kg	1.9	8260/5035	07/19/07 06:31	07/17/07	ECR	B
Chloromethane	ND	ug/kg	53.6	8260/5035	07/24/07 10:32	07/17/07	JAH	A
1,2-Dibromo-3-chloropropane	ND	ug/kg	3.8	8260/5035	07/19/07 06:31	07/17/07	ECR	B
1,2-Dibromo-3-chloropropane	ND	ug/kg	376	8260/5035	07/24/07 10:32	07/17/07	JAH	A
1,2-Dibromoethane	ND	ug/kg	1.9	8260/5035	07/19/07 06:31	07/17/07	ECR	B
1,2-Dibromoethane	ND	ug/kg	53.6	8260/5035	07/24/07 10:32	07/17/07	JAH	A
1,1-Dichloroethane	ND	ug/kg	1.9	8260/5035	07/19/07 06:31	07/17/07	ECR	B
1,1-Dichloroethane	ND	ug/kg	53.6	8260/5035	07/24/07 10:32	07/17/07	JAH	A
1,2-Dichloroethane	ND	ug/kg	1.9	8260/5035	07/19/07 06:31	07/17/07	ECR	B
1,2-Dichloroethane	ND	ug/kg	53.6	8260/5035	07/24/07 10:32	07/17/07	JAH	A
1,1-Dichloroethene	ND	ug/kg	1.9	8260/5035	07/19/07 06:31	07/17/07	ECR	B
1,1-Dichloroethene	ND	ug/kg	53.6	8260/5035	07/24/07 10:32	07/17/07	JAH	A
cis-1,2-Dichloroethene	ND	ug/kg	1.9	8260/5035	07/19/07 06:31	07/17/07	ECR	B
cis-1,2-Dichloroethene	ND	ug/kg	53.6	8260/5035	07/24/07 10:32	07/17/07	JAH	A
trans-1,2-Dichloroethene	ND	ug/kg	1.9	8260/5035	07/19/07 06:31	07/17/07	ECR	B



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Lab ID #: **9693983008**
Received: 07/17/07 16:30
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Page: 61 Of 76

Project Name: **YORK RDA - NORTHWEST TRIANGLE**
Workorder ID: **Soils-8260B, 8270C, PCBs, Metals**

PO#: 07214
COC Number:

Sample ID: **B-SS1[6]**

Matrix: Solid

Date Collected: 07/17/07 15:35

Collected by: Mr. Dan Buterbaugh

Analysis Parameter	Result	Units	RDL	Method	Completed	Prep Date	By	Cntr
VOLATILE ORGANICS (continued)								
trans-1,2-Dichloroethene	ND	ug/kg	53.6	8260/5035	07/24/07 10:32	07/17/07	JAH	A
1,2-Dichloropropane	ND	ug/kg	1.9	8260/5035	07/19/07 06:31	07/17/07	ECR	B
1,2-Dichloropropane	ND	ug/kg	53.6	8260/5035	07/24/07 10:32	07/17/07	JAH	A
cis-1,3-Dichloropropene	ND	ug/kg	1.9	8260/5035	07/19/07 06:31	07/17/07	ECR	B
cis-1,3-Dichloropropene	ND	ug/kg	53.6	8260/5035	07/24/07 10:32	07/17/07	JAH	A
trans-1,3-Dichloropropene	ND	ug/kg	1.9	8260/5035	07/19/07 06:31	07/17/07	ECR	B
trans-1,3-Dichloropropene	ND	ug/kg	53.6	8260/5035	07/24/07 10:32	07/17/07	JAH	A
Ethylbenzene	2.5	ug/kg	1.9	8260/5035	07/19/07 06:31	07/17/07	ECR	B
Ethylbenzene	ND	ug/kg	53.6	8260/5035	07/24/07 10:32	07/17/07	JAH	A
2-Hexanone	ND	ug/kg	9.5	8260/5035	07/19/07 06:31	07/17/07	ECR	B
2-Hexanone	ND	ug/kg	268	8260/5035	07/24/07 10:32	07/17/07	JAH	A
4-Methyl-2-Pentanone(MIBK)	ND	ug/kg	9.5	8260/5035	07/19/07 06:31	07/17/07	ECR	B
4-Methyl-2-Pentanone(MIBK)	ND	ug/kg	268	8260/5035	07/24/07 10:32	07/17/07	JAH	A
Methylene Chloride	ND	ug/kg	1.9	8260/5035	07/19/07 06:31	07/17/07	ECR	B
Methylene Chloride	ND	ug/kg	53.6	8260/5035	07/24/07 10:32	07/17/07	JAH	A
Styrene	ND	ug/kg	1.9	8260/5035	07/19/07 06:31	07/17/07	ECR	B
Styrene	ND	ug/kg	53.6	8260/5035	07/24/07 10:32	07/17/07	JAH	A
1,1,2,2-Tetrachloroethane	ND	ug/kg	1.9	8260/5035	07/19/07 06:31	07/17/07	ECR	B
1,1,2,2-Tetrachloroethane	ND	ug/kg	53.6	8260/5035	07/24/07 10:32	07/17/07	JAH	A
Tetrachloroethene	ND	ug/kg	1.9	8260/5035	07/19/07 06:31	07/17/07	ECR	B



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Page: 62 Of 76

Project Name: **YORK RDA - NORTHWEST TRIANGLE**
Workorder ID: **Soils-8260B, 8270C, PCBs, Metals**

PO#: 07214
COC Number:

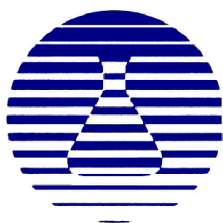
Sample ID: **B-SS1[6]**

Matrix: Solid

Date Collected: 07/17/07 15:35

Collected by: Mr. Dan Buterbaugh

Analysis Parameter	Result	Units	RDL	Method	Completed	Prep Date	By	Cntr
VOLATILE ORGANICS (continued)								
Tetrachloroethene	ND	ug/kg	53.6	8260/5035	07/24/07 10:32	07/17/07	JAH	A
Toluene	ND	ug/kg	1.9	8260/5035	07/19/07 06:31	07/17/07	ECR	B
Toluene	ND	ug/kg	53.6	8260/5035	07/24/07 10:32	07/17/07	JAH	A
Total Xylenes	14.1	ug/kg	5.7	8260/5035	07/19/07 06:31	07/17/07	ECR	B
Total Xylenes	ND	ug/kg	161	8260/5035	07/24/07 10:32	07/17/07	JAH	A
1,1,1-Trichloroethane	ND	ug/kg	1.9	8260/5035	07/19/07 06:31	07/17/07	ECR	B
1,1,1-Trichloroethane	ND	ug/kg	53.6	8260/5035	07/24/07 10:32	07/17/07	JAH	A
1,1,2-Trichloroethane	ND	ug/kg	1.9	8260/5035	07/19/07 06:31	07/17/07	ECR	B
1,1,2-Trichloroethane	ND	ug/kg	53.6	8260/5035	07/24/07 10:32	07/17/07	JAH	A
Trichloroethene	ND	ug/kg	1.9	8260/5035	07/19/07 06:31	07/17/07	ECR	B
Trichloroethene	ND	ug/kg	53.6	8260/5035	07/24/07 10:32	07/17/07	JAH	A
Vinyl Chloride	ND	ug/kg	1.9	8260/5035	07/19/07 06:31	07/17/07	ECR	B
Vinyl Chloride	ND	ug/kg	53.6	8260/5035	07/24/07 10:32	07/17/07	JAH	A
o-Xylene	3.0	ug/kg	1.9	8260/5035	07/19/07 06:31	07/17/07	ECR	B
o-Xylene	ND	ug/kg	53.6	8260/5035	07/24/07 10:32	07/17/07	JAH	A
mp-Xylene	11.1	ug/kg	3.8	8260/5035	07/19/07 06:31	07/17/07	ECR	B
mp-Xylene	ND	ug/kg	107	8260/5035	07/24/07 10:32	07/17/07	JAH	A



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Lab ID #: **9693983008**
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Page: 63 Of 76

Project Name: **YORK RDA - NORTHWEST TRIANGLE**
Workorder ID: **Soils-8260B, 8270C, PCBs, Metals**

PO#: 07214
COC Number:

Sample ID: **B-SS1[6]**

Matrix: Solid

Date Collected: 07/17/07 15:35

Collected by: Mr. Dan Buterbaugh

Analysis Parameter	Result	Units	RDL	Method	Completed	Prep Date	By	Cntr
SEMIVOLATILES								
Acenaphthene	ND	ug/kg	72	SW846 8270C	07/28/07 09:20	07/24/07	TTR	D2
Acenaphthylene	ND	ug/kg	72	SW846 8270C	07/28/07 09:20	07/24/07	TTR	D2
Anthracene	ND	ug/kg	72	SW846 8270C	07/28/07 09:20	07/24/07	TTR	D2
Benzo(a)anthracene	ND	ug/kg	72	SW846 8270C	07/28/07 09:20	07/24/07	TTR	D2
Benzo(a)pyrene	ND	ug/kg	72	SW846 8270C	07/28/07 09:20	07/24/07	TTR	D2
Benzo(b)fluoranthene	ND	ug/kg	72	SW846 8270C	07/28/07 09:20	07/24/07	TTR	D2
Benzo(g,h,i)perylene	ND	ug/kg	72	SW846 8270C	07/28/07 09:20	07/24/07	TTR	D2
Benzo(k)fluoranthene	ND	ug/kg	72	SW846 8270C	07/28/07 09:20	07/24/07	TTR	D2
4-Bromophenyl-phenylether	ND	ug/kg	103	SW846 8270C	07/28/07 09:20	07/24/07	TTR	D2
Butylbenzylphthalate	ND	ug/kg	103	SW846 8270C	07/28/07 09:20	07/24/07	TTR	D2
Carbazole	ND	ug/kg	103	SW846 8270C	07/28/07 09:20	07/24/07	TTR	D2
4-Chloro-3-methylphenol	ND	ug/kg	279	SW846 8270C	07/28/07 09:20	07/24/07	TTR	D2
4-Chloroaniline	ND	ug/kg	279	SW846 8270C	07/28/07 09:20	07/24/07	TTR	D2
Bis(2-Chloroethoxy)methane	ND	ug/kg	103	SW846 8270C	07/28/07 09:20	07/24/07	TTR	D2
Bis(2-Chloroethyl)ether	ND	ug/kg	103	SW846 8270C	07/28/07 09:20	07/24/07	TTR	D2
bis(2-Chloroisopropyl)ether	ND	ug/kg	103	SW846 8270C	07/28/07 09:20	07/24/07	TTR	D2
2-Chloronaphthalene	ND	ug/kg	103	SW846 8270C	07/28/07 09:20	07/24/07	TTR	D2
2-Chlorophenol	ND	ug/kg	279	SW846 8270C	07/28/07 09:20	07/24/07	TTR	D2
4-Chlorophenyl-phenylether	ND	ug/kg	103	SW846 8270C	07/28/07 09:20	07/24/07	TTR	D2
Chrysene	ND	ug/kg	72	SW846 8270C	07/28/07 09:20	07/24/07	TTR	D2



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August 1, 2007

Mr. Dan Buterbaugh
ARM Group Inc.
1129 W. Governor Road
Hershey, PA 17033

Lab ID #: **9693983008**
Received: 07/17/07 16:30
Discard: 08/15/07

Page: 64 Of 76

Project Name: **YORK RDA - NORTHWEST TRIANGLE**
Workorder ID: **Soils-8260B, 8270C, PCBs, Metals**

PO#: 07214
COC Number:

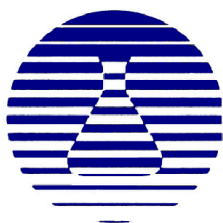
Sample ID: **B-SS1[6]**

Matrix: Solid

Date Collected: 07/17/07 15:35

Collected by: Mr. Dan Buterbaugh

Analysis Parameter	Result	Units	RDL	Method	Completed	Prep Date	By	Cntr
SEMIVOLATILES (continued)								
mp-Cresol	ND	ug/kg	279	SW846 8270C	07/28/07 09:20	07/24/07	TTR	D2
o-Cresol	ND	ug/kg	279	SW846 8270C	07/28/07 09:20	07/24/07	TTR	D2
Di-n-Butylphthalate	ND	ug/kg	103	SW846 8270C	07/28/07 09:20	07/24/07	TTR	D2
Di-n-Octylphthalate	ND	ug/kg	279	SW846 8270C	07/28/07 09:20	07/24/07	TTR	D2
Dibenzo(a,h)anthracene	ND	ug/kg	72	SW846 8270C	07/28/07 09:20	07/24/07	TTR	D2
Dibenzofuran	ND	ug/kg	103	SW846 8270C	07/28/07 09:20	07/24/07	TTR	D2
1,2-Dichlorobenzene	ND	ug/kg	103	SW846 8270C	07/28/07 09:20	07/24/07	TTR	D2
1,3-Dichlorobenzene	ND	ug/kg	103	SW846 8270C	07/28/07 09:20	07/24/07	TTR	D2
1,4-Dichlorobenzene	ND	ug/kg	103	SW846 8270C	07/28/07 09:20	07/24/07	TTR	D2
3,3-Dichlorobenzidine	ND	ug/kg	103	SW846 8270C	07/28/07 09:20	07/24/07	TTR	D2
2,4-Dichlorophenol	ND	ug/kg	279	SW846 8270C	07/28/07 09:20	07/24/07	TTR	D2
Diethylphthalate	ND	ug/kg	103	SW846 8270C	07/28/07 09:20	07/24/07	TTR	D2
2,4-Dimethylphenol	ND	ug/kg	279	SW846 8270C	07/28/07 09:20	07/24/07	TTR	D2
Dimethylphthalate	ND	ug/kg	103	SW846 8270C	07/28/07 09:20	07/24/07	TTR	D2
2,4-Dinitrophenol	ND	ug/kg	558	SW846 8270C	07/28/07 09:20	07/24/07	TTR	D2
2,4-Dinitrotoluene	ND	ug/kg	103	SW846 8270C	07/28/07 09:20	07/24/07	TTR	D2
2,6-Dinitrotoluene	ND	ug/kg	103	SW846 8270C	07/28/07 09:20	07/24/07	TTR	D2
bis(2-Ethylhexyl)phthalate	ND	ug/kg	103	SW846 8270C	07/28/07 09:20	07/24/07	TTR	D2
Fluoranthene	ND	ug/kg	72	SW846 8270C	07/28/07 09:20	07/24/07	TTR	D2
Fluorene	ND	ug/kg	72	SW846 8270C	07/28/07 09:20	07/24/07	TTR	D2



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Discard: 08/15/07

Page: 65 Of 76

Project Name: **YORK RDA - NORTHWEST TRIANGLE**
Workorder ID: **Soils-8260B, 8270C, PCBs, Metals**

PO#: 07214
COC Number:

Sample ID: **B-SS1[6]**

Matrix: Solid

Date Collected: 07/17/07 15:35

Collected by: Mr. Dan Buterbaugh

Analysis Parameter	Result	Units	RDL	Method	Completed	Prep Date	By	Cntr
SEMIVOLATILES (continued)								
Hexachlorobenzene	ND	ug/kg	103	SW846 8270C	07/28/07 09:20	07/24/07	TTR	D2
Hexachlorobutadiene	ND	ug/kg	103	SW846 8270C	07/28/07 09:20	07/24/07	TTR	D2
Hexachlorocyclopentadiene	ND	ug/kg	279	SW846 8270C	07/28/07 09:20	07/24/07	TTR	D2
Hexachloroethane	ND	ug/kg	103	SW846 8270C	07/28/07 09:20	07/24/07	TTR	D2
Indeno(1,2,3-cd)pyrene	ND	ug/kg	72	SW846 8270C	07/28/07 09:20	07/24/07	TTR	D2
Isophorone	ND	ug/kg	103	SW846 8270C	07/28/07 09:20	07/24/07	TTR	D2
2-Methyl-4,6-dinitrophenol	ND	ug/kg	279	SW846 8270C	07/28/07 09:20	07/24/07	TTR	D2
2-Methylnaphthalene	ND	ug/kg	72	SW846 8270C	07/28/07 09:20	07/24/07	TTR	D2
Naphthalene	ND	ug/kg	72	SW846 8270C	07/28/07 09:20	07/24/07	TTR	D2
2-Nitroaniline	ND	ug/kg	103	SW846 8270C	07/28/07 09:20	07/24/07	TTR	D2
3-Nitroaniline	ND	ug/kg	279	SW846 8270C	07/28/07 09:20	07/24/07	TTR	D2
4-Nitroaniline	ND	ug/kg	279	SW846 8270C	07/28/07 09:20	07/24/07	TTR	D2
Nitrobenzene	ND	ug/kg	103	SW846 8270C	07/28/07 09:20	07/24/07	TTR	D2
2-Nitrophenol	ND	ug/kg	279	SW846 8270C	07/28/07 09:20	07/24/07	TTR	D2
4-Nitrophenol	ND	ug/kg	558	SW846 8270C	07/28/07 09:20	07/24/07	TTR	D2
N-Nitroso-di-n-propylamine	ND	ug/kg	103	SW846 8270C	07/28/07 09:20	07/24/07	TTR	D2
N-Nitrosodiphenylamine	ND	ug/kg	103	SW846 8270C	07/28/07 09:20	07/24/07	TTR	D2
Pentachlorophenol	ND	ug/kg	558	SW846 8270C	07/28/07 09:20	07/24/07	TTR	D2
Phenanthrene	ND	ug/kg	72	SW846 8270C	07/28/07 09:20	07/24/07	TTR	D2
Phenol	ND	ug/kg	279	SW846 8270C	07/28/07 09:20	07/24/07	TTR	D2



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Page: 66 Of 76

Project Name: **YORK RDA - NORTHWEST TRIANGLE**
Workorder ID: **Soils-8260B, 8270C, PCBs, Metals**

PO#: 07214
COC Number:

Sample ID: **B-SS1[6]**

Matrix: Solid

Date Collected: 07/17/07 15:35

Collected by: Mr. Dan Buterbaugh

Analysis Parameter	Result	Units	RDL	Method	Completed	Prep Date	By	Cntr
SEMIVOLATILES (continued)								
Pyrene	ND	ug/kg	72	SW846 8270C	07/28/07 09:20	07/24/07	TTR	D2
1,2,4-Trichlorobenzene	ND	ug/kg	103	SW846 8270C	07/28/07 09:20	07/24/07	TTR	D2
2,4,5-Trichlorophenol	ND	ug/kg	279	SW846 8270C	07/28/07 09:20	07/24/07	TTR	D2
2,4,6-Trichlorophenol	ND	ug/kg	279	SW846 8270C	07/28/07 09:20	07/24/07	TTR	D2
PCB'S								
Aroclor-1016	ND	mg/kg	0.034	SW846 8082	07/24/07 11:08	07/20/07	JJH	D1
Aroclor-1221	ND	mg/kg	0.034	SW846 8082	07/24/07 11:08	07/20/07	JJH	D1
Aroclor-1232	ND	mg/kg	0.034	SW846 8082	07/24/07 11:08	07/20/07	JJH	D1
Aroclor-1242	ND	mg/kg	0.034	SW846 8082	07/24/07 11:08	07/20/07	JJH	D1
Aroclor-1248	ND	mg/kg	0.034	SW846 8082	07/24/07 11:08	07/20/07	JJH	D1
Aroclor-1254	ND	mg/kg	0.034	SW846 8082	07/24/07 11:08	07/20/07	JJH	D1
Aroclor-1260	ND	mg/kg	0.034	SW846 8082	07/24/07 11:08	07/20/07	JJH	D1
WET CHEMISTRY								
Moisture	4.5	%	0.1	SM20-2540 G	07/18/07 05:15	07/18/07	KMW	D
Total Solids	95.5	%	0.1	SM20-2540 G	07/18/07 05:15	07/18/07	KMW	D



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Page: 67 Of 76

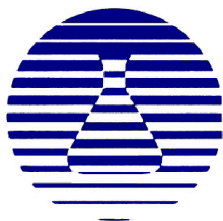
Project Name: **YORK RDA - NORTHWEST TRIANGLE**
Workorder ID: **Soils-8260B,8270C,PCBs,Metals**

PO#: 07214
COC Number:

Sample ID: **B-SS1[6]**
Date Collected: 07/17/07 15:35

Matrix: Solid
Collected by: Mr. Dan Buterbaugh

Analysis Parameter	Result	Units	RDL	Method	Completed	Prep Date	By	Cntr
METALS								
Arsenic, Total	ND	mg/kg	2	SW846 6010B	07/26/07 17:28	07/25/07	JWK	D
Barium, Total	76	mg/kg	1	SW846 6010B	07/26/07 17:28	07/25/07	JWK	D
Cadmium, Total	0.8	mg/kg	0.5	SW846 6010B	07/26/07 17:28	07/25/07	JWK	D
Chromium, Total	22.5	mg/kg	1	SW846 6010B	07/26/07 17:28	07/25/07	JWK	D
Lead, Total	9	mg/kg	1	SW846 6010B	07/26/07 17:28	07/25/07	JWK	D
Mercury, Total	ND	mg/kg	0.18	SW846 7471B	07/29/07 21:37	07/27/07	AGM	D3
Selenium, Total	ND	mg/kg	5	SW846 6010B	07/26/07 17:28	07/25/07	JWK	D
Silver, Total	ND	mg/kg	0.5	SW846 6010B	07/26/07 17:28	07/25/07	JWK	D
Surrogates								
	Result	Units	Recovery	Limits				
2,4,6-Tribromophenol	1850	ug/kg	56.0%	(24 - 130)				
1,2-Dichloroethane-d4	24.1	ug/kg	88.0%	(56 - 124)				
1,2-Dichloroethane-d4	1660	ug/kg	108.0%	(71 - 146)				
Dibromofluoromethane	24	ug/kg	88.0%	(62 - 123)				
Dibromofluoromethane	1850	ug/kg	120.0%	(42 - 143)				
Toluene-d8	23.5	ug/kg	86.0%	(59 - 131)				
Toluene-d8	1990	ug/kg	130.0%	(54 - 141)				
Decachlorobiphenyl	.061	mg/kg	74.0%	(30 - 150)				
2-Fluorobiphenyl	924	ug/kg	56.0%	(40 - 113)				
2-Fluorophenol	1830	ug/kg	56.0%	(25 - 110)				



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Hershey, PA 17033

Lab ID #: **9693983008**
Received: 07/17/07 16:30
Discard: 08/15/07

Page: 68 Of 76

Project Name: **YORK RDA - NORTHWEST TRIANGLE**
Workorder ID: **Soils-8260B, 8270C, PCBs, Metals**

PO#: 07214
COC Number:

Sample ID: **B-SS1[6]**

Matrix: Solid

Date Collected: 07/17/07 15:35

Collected by: Mr. Dan Buterbaugh

Surrogates (continued)	Result	Units	Recovery	Limits
Nitrobenzene-d5	979	ug/kg	60.0%	(36 - 113)
Phenol-d5	1940	ug/kg	59.0%	(28 - 111)
4-Bromofluorobenzene	24.9	ug/kg	91.0%	(51 - 128)
4-Bromofluorobenzene	1660	ug/kg	108.0%	(46 - 138)
Tetrachloro-m-xylene	.07	mg/kg	86.0%	(30 - 136)
Terphenyl-d14	1040	ug/kg	63.0%	(35 - 135)

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

Raymond J. Martrano
Laboratory Manager



Certificate of Analysis

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1129 W. Governor Road
Hershey, PA 17033

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Discard: 08/15/07

Page: 69 Of 76

Project Name: **YORK RDA - NORTHWEST TRIANGLE**
Workorder ID: **Soils-8260B, 8270C, PCBs, Metals**

PO#: 07214
COC Number:

Sample ID: **B-SS2[6]**
Date Collected: 07/17/07 15:45

Matrix: Solid
Collected by: Mr. Dan Buterbaugh

Analysis Parameter	Result	Units	RDL	Method	Completed	Prep Date	By	Cntr
VOLATILE ORGANICS								
Acetone	188	ug/kg	27.6	8260/5035	07/19/07 06:00	07/17/07	ECR	B
Benzene	ND	ug/kg	2.2	8260/5035	07/19/07 06:00	07/17/07	ECR	B
Bromochloromethane	ND	ug/kg	2.2	8260/5035	07/19/07 06:00	07/17/07	ECR	B
Bromodichloromethane	ND	ug/kg	2.2	8260/5035	07/19/07 06:00	07/17/07	ECR	B
Bromoform	ND	ug/kg	2.2	8260/5035	07/19/07 06:00	07/17/07	ECR	B
Bromomethane	ND	ug/kg	4.4	8260/5035	07/19/07 06:00	07/17/07	ECR	B
2-Butanone	19.6	ug/kg	11.0	8260/5035	07/19/07 06:00	07/17/07	ECR	B
Carbon Disulfide	ND	ug/kg	2.2	8260/5035	07/19/07 06:00	07/17/07	ECR	B
Carbon Tetrachloride	ND	ug/kg	2.2	8260/5035	07/19/07 06:00	07/17/07	ECR	B
Chlorobenzene	ND	ug/kg	2.2	8260/5035	07/19/07 06:00	07/17/07	ECR	B
Chlorodibromomethane	ND	ug/kg	2.2	8260/5035	07/19/07 06:00	07/17/07	ECR	B
Chloroethane	ND	ug/kg	2.2	8260/5035	07/19/07 06:00	07/17/07	ECR	B
Chloroform	ND	ug/kg	2.2	8260/5035	07/19/07 06:00	07/17/07	ECR	B
Chloromethane	ND	ug/kg	2.2	8260/5035	07/19/07 06:00	07/17/07	ECR	B
1,2-Dibromo-3-chloropropane	ND	ug/kg	4.4	8260/5035	07/19/07 06:00	07/17/07	ECR	B
1,2-Dibromoethane	ND	ug/kg	2.2	8260/5035	07/19/07 06:00	07/17/07	ECR	B
1,1-Dichloroethane	ND	ug/kg	2.2	8260/5035	07/19/07 06:00	07/17/07	ECR	B
1,2-Dichloroethane	ND	ug/kg	2.2	8260/5035	07/19/07 06:00	07/17/07	ECR	B
1,1-Dichloroethene	ND	ug/kg	2.2	8260/5035	07/19/07 06:00	07/17/07	ECR	B
cis-1,2-Dichloroethene	ND	ug/kg	2.2	8260/5035	07/19/07 06:00	07/17/07	ECR	B



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Page: 70 Of 76

Project Name: **YORK RDA - NORTHWEST TRIANGLE**
Workorder ID: **Soils-8260B, 8270C, PCBs, Metals**

PO#: 07214
COC Number:

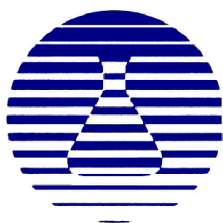
Sample ID: **B-SS2[6]**

Matrix: Solid

Date Collected: 07/17/07 15:45

Collected by: Mr. Dan Buterbaugh

Analysis Parameter	Result	Units	RDL	Method	Completed	Prep Date	By	Cntr
VOLATILE ORGANICS (continued)								
trans-1,2-Dichloroethene	ND	ug/kg	2.2	8260/5035	07/19/07 06:00	07/17/07	ECR	B
1,2-Dichloropropane	ND	ug/kg	2.2	8260/5035	07/19/07 06:00	07/17/07	ECR	B
cis-1,3-Dichloropropene	ND	ug/kg	2.2	8260/5035	07/19/07 06:00	07/17/07	ECR	B
trans-1,3-Dichloropropene	ND	ug/kg	2.2	8260/5035	07/19/07 06:00	07/17/07	ECR	B
Ethylbenzene	ND	ug/kg	2.2	8260/5035	07/19/07 06:00	07/17/07	ECR	B
2-Hexanone	ND	ug/kg	11.0	8260/5035	07/19/07 06:00	07/17/07	ECR	B
4-Methyl-2-Pentanone(MIBK)	ND	ug/kg	11.0	8260/5035	07/19/07 06:00	07/17/07	ECR	B
Methylene Chloride	ND	ug/kg	2.2	8260/5035	07/19/07 06:00	07/17/07	ECR	B
Styrene	ND	ug/kg	2.2	8260/5035	07/19/07 06:00	07/17/07	ECR	B
1,1,2,2-Tetrachloroethane	ND	ug/kg	2.2	8260/5035	07/19/07 06:00	07/17/07	ECR	B
Tetrachloroethene	ND	ug/kg	2.2	8260/5035	07/19/07 06:00	07/17/07	ECR	B
Toluene	ND	ug/kg	2.2	8260/5035	07/19/07 06:00	07/17/07	ECR	B
Total Xylenes	ND	ug/kg	6.6	8260/5035	07/19/07 06:00	07/17/07	ECR	B
1,1,1-Trichloroethane	ND	ug/kg	2.2	8260/5035	07/19/07 06:00	07/17/07	ECR	B
1,1,2-Trichloroethane	ND	ug/kg	2.2	8260/5035	07/19/07 06:00	07/17/07	ECR	B
Trichloroethene	ND	ug/kg	2.2	8260/5035	07/19/07 06:00	07/17/07	ECR	B
Vinyl Chloride	ND	ug/kg	2.2	8260/5035	07/19/07 06:00	07/17/07	ECR	B
o-Xylene	ND	ug/kg	2.2	8260/5035	07/19/07 06:00	07/17/07	ECR	B
mp-Xylene	ND	ug/kg	4.4	8260/5035	07/19/07 06:00	07/17/07	ECR	B



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Page: 71 Of 76

Project Name: **YORK RDA - NORTHWEST TRIANGLE**
Workorder ID: **Soils-8260B, 8270C, PCBs, Metals**

PO#: 07214
COC Number:

Sample ID: **B-SS2[6]**

Matrix: Solid

Date Collected: 07/17/07 15:45

Collected by: Mr. Dan Buterbaugh

Analysis Parameter	Result	Units	RDL	Method	Completed	Prep Date	By	Cntr
SEMIVOLATILES								
Acenaphthene	ND	ug/kg	74	SW846 8270C	07/28/07 10:09	07/24/07	TTR	D2
Acenaphthylene	ND	ug/kg	74	SW846 8270C	07/28/07 10:09	07/24/07	TTR	D2
Anthracene	ND	ug/kg	74	SW846 8270C	07/28/07 10:09	07/24/07	TTR	D2
Benzo(a)anthracene	ND	ug/kg	74	SW846 8270C	07/28/07 10:09	07/24/07	TTR	D2
Benzo(a)pyrene	ND	ug/kg	74	SW846 8270C	07/28/07 10:09	07/24/07	TTR	D2
Benzo(b)fluoranthene	ND	ug/kg	74	SW846 8270C	07/28/07 10:09	07/24/07	TTR	D2
Benzo(g,h,i)perylene	ND	ug/kg	74	SW846 8270C	07/28/07 10:09	07/24/07	TTR	D2
Benzo(k)fluoranthene	ND	ug/kg	74	SW846 8270C	07/28/07 10:09	07/24/07	TTR	D2
4-Bromophenyl-phenylether	ND	ug/kg	105	SW846 8270C	07/28/07 10:09	07/24/07	TTR	D2
Butylbenzylphthalate	ND	ug/kg	105	SW846 8270C	07/28/07 10:09	07/24/07	TTR	D2
Carbazole	ND	ug/kg	105	SW846 8270C	07/28/07 10:09	07/24/07	TTR	D2
4-Chloro-3-methylphenol	ND	ug/kg	285	SW846 8270C	07/28/07 10:09	07/24/07	TTR	D2
4-Chloroaniline	ND	ug/kg	285	SW846 8270C	07/28/07 10:09	07/24/07	TTR	D2
Bis(2-Chloroethoxy)methane	ND	ug/kg	105	SW846 8270C	07/28/07 10:09	07/24/07	TTR	D2
Bis(2-Chloroethyl)ether	ND	ug/kg	105	SW846 8270C	07/28/07 10:09	07/24/07	TTR	D2
bis(2-Chloroisopropyl)ether	ND	ug/kg	105	SW846 8270C	07/28/07 10:09	07/24/07	TTR	D2
2-Chloronaphthalene	ND	ug/kg	105	SW846 8270C	07/28/07 10:09	07/24/07	TTR	D2
2-Chlorophenol	ND	ug/kg	285	SW846 8270C	07/28/07 10:09	07/24/07	TTR	D2
4-Chlorophenyl-phenylether	ND	ug/kg	105	SW846 8270C	07/28/07 10:09	07/24/07	TTR	D2
Chrysene	ND	ug/kg	74	SW846 8270C	07/28/07 10:09	07/24/07	TTR	D2



Certificate of Analysis

August 1, 2007

Mr. Dan Buterbaugh
ARM Group Inc.
1129 W. Governor Road
Hershey, PA 17033

Lab ID #: **9693983009**
Received: 07/17/07 16:30
Discard: 08/15/07

Page: 72 Of 76

Project Name: **YORK RDA - NORTHWEST TRIANGLE**
Workorder ID: **Soils-8260B, 8270C, PCBs, Metals**

PO#: 07214
COC Number:

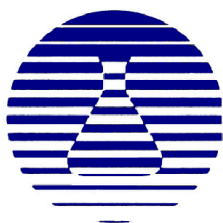
Sample ID: **B-SS2[6]**

Matrix: Solid

Date Collected: 07/17/07 15:45

Collected by: Mr. Dan Buterbaugh

Analysis Parameter	Result	Units	RDL	Method	Completed	Prep Date	By	Cntr
SEMIVOLATILES (continued)								
mp-Cresol	ND	ug/kg	285	SW846 8270C	07/28/07 10:09	07/24/07	TTR	D2
o-Cresol	ND	ug/kg	285	SW846 8270C	07/28/07 10:09	07/24/07	TTR	D2
Di-n-Butylphthalate	ND	ug/kg	105	SW846 8270C	07/28/07 10:09	07/24/07	TTR	D2
Di-n-Octylphthalate	ND	ug/kg	285	SW846 8270C	07/28/07 10:09	07/24/07	TTR	D2
Dibenzo(a,h)anthracene	ND	ug/kg	74	SW846 8270C	07/28/07 10:09	07/24/07	TTR	D2
Dibenzofuran	ND	ug/kg	105	SW846 8270C	07/28/07 10:09	07/24/07	TTR	D2
1,2-Dichlorobenzene	ND	ug/kg	105	SW846 8270C	07/28/07 10:09	07/24/07	TTR	D2
1,3-Dichlorobenzene	ND	ug/kg	105	SW846 8270C	07/28/07 10:09	07/24/07	TTR	D2
1,4-Dichlorobenzene	ND	ug/kg	105	SW846 8270C	07/28/07 10:09	07/24/07	TTR	D2
3,3-Dichlorobenzidine	ND	ug/kg	105	SW846 8270C	07/28/07 10:09	07/24/07	TTR	D2
2,4-Dichlorophenol	ND	ug/kg	285	SW846 8270C	07/28/07 10:09	07/24/07	TTR	D2
Diethylphthalate	ND	ug/kg	105	SW846 8270C	07/28/07 10:09	07/24/07	TTR	D2
2,4-Dimethylphenol	ND	ug/kg	285	SW846 8270C	07/28/07 10:09	07/24/07	TTR	D2
Dimethylphthalate	ND	ug/kg	105	SW846 8270C	07/28/07 10:09	07/24/07	TTR	D2
2,4-Dinitrophenol	ND	ug/kg	569	SW846 8270C	07/28/07 10:09	07/24/07	TTR	D2
2,4-Dinitrotoluene	ND	ug/kg	105	SW846 8270C	07/28/07 10:09	07/24/07	TTR	D2
2,6-Dinitrotoluene	ND	ug/kg	105	SW846 8270C	07/28/07 10:09	07/24/07	TTR	D2
bis(2-Ethylhexyl)phthalate	ND	ug/kg	105	SW846 8270C	07/28/07 10:09	07/24/07	TTR	D2
Fluoranthene	ND	ug/kg	74	SW846 8270C	07/28/07 10:09	07/24/07	TTR	D2
Fluorene	ND	ug/kg	74	SW846 8270C	07/28/07 10:09	07/24/07	TTR	D2



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Lab ID #: **9693983009**
Received: 07/17/07 16:30
Discard: 08/15/07

Page: 73 Of 76

Project Name: **YORK RDA - NORTHWEST TRIANGLE**
Workorder ID: **Soils-8260B, 8270C, PCBs, Metals**

PO#: 07214
COC Number:

Sample ID: **B-SS2[6]**

Matrix: Solid

Date Collected: 07/17/07 15:45

Collected by: Mr. Dan Buterbaugh

Analysis Parameter	Result	Units	RDL	Method	Completed	Prep Date	By	Cntr
SEMIVOLATILES (continued)								
Hexachlorobenzene	ND	ug/kg	105	SW846 8270C	07/28/07 10:09	07/24/07	TTR	D2
Hexachlorobutadiene	ND	ug/kg	105	SW846 8270C	07/28/07 10:09	07/24/07	TTR	D2
Hexachlorocyclopentadiene	ND	ug/kg	285	SW846 8270C	07/28/07 10:09	07/24/07	TTR	D2
Hexachloroethane	ND	ug/kg	105	SW846 8270C	07/28/07 10:09	07/24/07	TTR	D2
Indeno(1,2,3-cd)pyrene	ND	ug/kg	74	SW846 8270C	07/28/07 10:09	07/24/07	TTR	D2
Isophorone	ND	ug/kg	105	SW846 8270C	07/28/07 10:09	07/24/07	TTR	D2
2-Methyl-4,6-dinitrophenol	ND	ug/kg	285	SW846 8270C	07/28/07 10:09	07/24/07	TTR	D2
2-Methylnaphthalene	ND	ug/kg	74	SW846 8270C	07/28/07 10:09	07/24/07	TTR	D2
Naphthalene	ND	ug/kg	74	SW846 8270C	07/28/07 10:09	07/24/07	TTR	D2
2-Nitroaniline	ND	ug/kg	105	SW846 8270C	07/28/07 10:09	07/24/07	TTR	D2
3-Nitroaniline	ND	ug/kg	285	SW846 8270C	07/28/07 10:09	07/24/07	TTR	D2
4-Nitroaniline	ND	ug/kg	285	SW846 8270C	07/28/07 10:09	07/24/07	TTR	D2
Nitrobenzene	ND	ug/kg	105	SW846 8270C	07/28/07 10:09	07/24/07	TTR	D2
2-Nitrophenol	ND	ug/kg	285	SW846 8270C	07/28/07 10:09	07/24/07	TTR	D2
4-Nitrophenol	ND	ug/kg	569	SW846 8270C	07/28/07 10:09	07/24/07	TTR	D2
N-Nitroso-di-n-propylamine	ND	ug/kg	105	SW846 8270C	07/28/07 10:09	07/24/07	TTR	D2
N-Nitrosodiphenylamine	ND	ug/kg	105	SW846 8270C	07/28/07 10:09	07/24/07	TTR	D2
Pentachlorophenol	ND	ug/kg	569	SW846 8270C	07/28/07 10:09	07/24/07	TTR	D2
Phenanthrene	ND	ug/kg	74	SW846 8270C	07/28/07 10:09	07/24/07	TTR	D2
Phenol	ND	ug/kg	285	SW846 8270C	07/28/07 10:09	07/24/07	TTR	D2



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Lab ID #: **9693983009**
Received: 07/17/07 16:30
Discard: 08/15/07

Page: 74 Of 76

Project Name: **YORK RDA - NORTHWEST TRIANGLE**
Workorder ID: **Soils-8260B, 8270C, PCBs, Metals**

PO#: 07214
COC Number:

Sample ID: **B-SS2[6]**

Matrix: Solid

Date Collected: 07/17/07 15:45

Collected by: Mr. Dan Buterbaugh

Analysis Parameter	Result	Units	RDL	Method	Completed	Prep Date	By	Cntr
SEMIVOLATILES (continued)								
Pyrene	ND	ug/kg	74	SW846 8270C	07/28/07 10:09	07/24/07	TTR	D2
1,2,4-Trichlorobenzene	ND	ug/kg	105	SW846 8270C	07/28/07 10:09	07/24/07	TTR	D2
2,4,5-Trichlorophenol	ND	ug/kg	285	SW846 8270C	07/28/07 10:09	07/24/07	TTR	D2
2,4,6-Trichlorophenol	ND	ug/kg	285	SW846 8270C	07/28/07 10:09	07/24/07	TTR	D2
PCB'S								
Aroclor-1016	ND	mg/kg	0.035	SW846 8082	07/24/07 12:42	07/20/07	JJH	D1
Aroclor-1221	ND	mg/kg	0.035	SW846 8082	07/24/07 12:42	07/20/07	JJH	D1
Aroclor-1232	ND	mg/kg	0.035	SW846 8082	07/24/07 12:42	07/20/07	JJH	D1
Aroclor-1242	ND	mg/kg	0.035	SW846 8082	07/24/07 12:42	07/20/07	JJH	D1
Aroclor-1248	ND	mg/kg	0.035	SW846 8082	07/24/07 12:42	07/20/07	JJH	D1
Aroclor-1254	ND	mg/kg	0.035	SW846 8082	07/24/07 12:42	07/20/07	JJH	D1
Aroclor-1260	ND	mg/kg	0.035	SW846 8082	07/24/07 12:42	07/20/07	JJH	D1
WET CHEMISTRY								
Moisture	5.5	%	0.1	SM20-2540 G	07/18/07 05:15	07/18/07	KMW	D
Total Solids	94.5	%	0.1	SM20-2540 G	07/18/07 05:15	07/18/07	KMW	D



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Lab ID #: **9693983009**
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Page: 75 Of 76

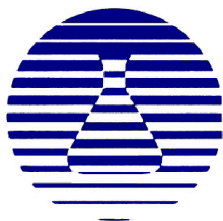
Project Name: **YORK RDA - NORTHWEST TRIANGLE**
Workorder ID: **Soils-8260B,8270C,PCBs,Metals**

PO#: 07214
COC Number:

Sample ID: **B-SS2[6]**
Date Collected: 07/17/07 15:45

Matrix: Solid
Collected by: Mr. Dan Buterbaugh

Analysis Parameter	Result	Units	RDL	Method	Completed	Prep Date	By	Cntr
METALS								
Arsenic, Total	ND	mg/kg	2	SW846 6010B	07/26/07 17:34	07/25/07	JWK	D
Barium, Total	56	mg/kg	1	SW846 6010B	07/26/07 17:34	07/25/07	JWK	D
Cadmium, Total	0.9	mg/kg	0.5	SW846 6010B	07/26/07 17:34	07/25/07	JWK	D
Chromium, Total	20.7	mg/kg	1	SW846 6010B	07/26/07 17:34	07/25/07	JWK	D
Lead, Total	10	mg/kg	1	SW846 6010B	07/26/07 17:34	07/25/07	JWK	D
Mercury, Total	ND	mg/kg	0.19	SW846 7471B	07/29/07 21:40	07/27/07	AGM	D3
Selenium, Total	ND	mg/kg	5	SW846 6010B	07/26/07 17:34	07/25/07	JWK	D
Silver, Total	ND	mg/kg	0.5	SW846 6010B	07/26/07 17:34	07/25/07	JWK	D
Surrogates								
	Result	Units	Recovery	Limits				
2,4,6-Tribromophenol	2470	ug/kg	74.0%	(24 - 130)				
1,2-Dichloroethane-d4	27.5	ug/kg	88.0%	(56 - 124)				
Dibromofluoromethane	27.3	ug/kg	87.0%	(62 - 123)				
Toluene-d8	28.6	ug/kg	92.0%	(59 - 131)				
Decachlorobiphenyl	.061	mg/kg	73.0%	(30 - 150)				
2-Fluorobiphenyl	1130	ug/kg	68.0%	(40 - 113)				
2-Fluorophenol	2320	ug/kg	70.0%	(25 - 110)				
Nitrobenzene-d5	1170	ug/kg	71.0%	(36 - 113)				
Phenol-d5	2470	ug/kg	74.0%	(28 - 111)				
4-Bromofluorobenzene	28.7	ug/kg	92.0%	(51 - 128)				



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Mr. Dan Buterbaugh
ARM Group Inc.
1129 W. Governor Road
Hershey, PA 17033

Lab ID #: **9693983009**
Received: 07/17/07 16:30
Discard: 08/15/07

Page: 76 Of 76

Project Name: **YORK RDA - NORTHWEST TRIANGLE**
Workorder ID: **Soils-8260B, 8270C, PCBs, Metals**

PO#: 07214
COC Number:

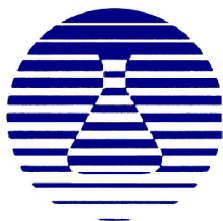
Sample ID: **B-SS2[6]**
Date Collected: 07/17/07 15:45

Matrix: Solid
Collected by: Mr. Dan Buterbaugh

Surrogates (continued)	Result	Units	Recovery	Limits
Tetrachloro-m-xylene	.071	mg/kg	85.0%	(30 - 136)
Terphenyl-d14	1290	ug/kg	78.0%	(35 - 135)

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Raymond J. Martrano
Laboratory Manager



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August 2, 2007

Mr. Dan Buterbaugh
ARM Group Inc.
1129 W. Governor Road
Hershey, PA 17033

Lab ID#: **9694212**

Page: 1 Of 11

Project Name: **YORK RDA - NORTHWEST TRIANGLE**
Workorder ID: **Soils-Total Lead**

PO#: 07214

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Unless otherwise noted, all quantitative results for soils are reported on a dry weight basis. Samples collected by ALSI personnel are done so in accordance with the procedures set forth in the ALSI Field Sampling Plan.

A result of ND indicates that the analyte was Not Detected at the Reporting Detection Limit (RDL). The RDL, by default, is equivalent to the Practical Quantitation Limit (PQL) or may be equivalent to the Method Detection Limit (MDL), if specifically requested by the customer.

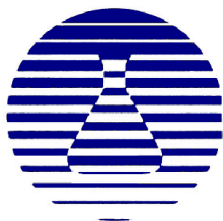
Qualifier Flags - These flags may follow individual results for a specific analyte

U - Indicates that the analyte was not detected

J - Indicates an estimated value between the MDL and PQL

Note: This cover letter and the attached Chain-of-Custody document is included as part of the Analytical Report and must be retained as a permanent record thereof.

Raymond J. Martrano
Laboratory Manager



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Certificate of Analysis

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Mr. Dan Buterbaugh
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1129 W. Governor Road
Hershey, PA 17033

Lab ID #: **9694212001**
Received: 07/18/07 14:07
Discard: 08/16/07

Page: 2 Of 11

Project Name: **YORK RDA - NORTHWEST TRIANGLE**

PO#: 07214

Workorder ID: **Soils-Total Lead**

COC Number:

Sample ID: **C-SS1[6]**

Matrix: Solid

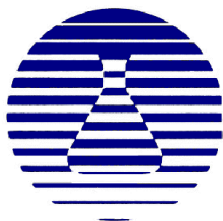
Date Collected: 07/18/07 09:45

Collected by: Mr. Dan Buterbaugh

Analysis Parameter	Result	Units	RDL	Method	Completed	Prep Date	By	Cntr
WET CHEMISTRY								
Moisture	11.9	%	0.1	SM20-2540 G	07/19/07 00:45	07/19/07	MWO	A
Total Solids	88.1	%	0.1	SM20-2540 G	07/19/07 00:45	07/19/07	MWO	A
METALS								
Lead, Total	349	mg/kg	1	SW846 6010B	07/27/07 11:28	07/26/07	JWK	A

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Laboratory Manager



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Lab ID #: **9694212002**
Received: 07/18/07 14:07
Discard: 08/16/07

Page: 3 Of 11

Project Name: **YORK RDA - NORTHWEST TRIANGLE**

PO#: 07214

Workorder ID: **Soils-Total Lead**

COC Number:

Sample ID: **C-SS2[6]**

Matrix: Solid

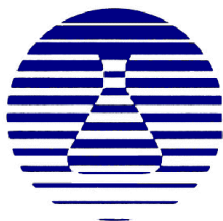
Date Collected: 07/18/07 09:55

Collected by: Mr. Dan Buterbaugh

Analysis Parameter	Result	Units	RDL	Method	Completed	Prep Date	By	Cntr
WET CHEMISTRY								
Moisture	15.3	%	0.1	SM20-2540 G	07/19/07 00:45	07/19/07	MWO	A
Total Solids	84.7	%	0.1	SM20-2540 G	07/19/07 00:45	07/19/07	MWO	A
METALS								
Lead, Total	563	mg/kg	1	SW846 6010B	07/27/07 11:34	07/26/07	JWK	A

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Laboratory Manager



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Lab ID #: **9694212003**
Received: 07/18/07 14:07
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Page: 4 Of 11

Project Name: **YORK RDA - NORTHWEST TRIANGLE**

PO#: 07214

Workorder ID: **Soils-Total Lead**

COC Number:

Sample ID: **C-SS3[6]**

Matrix: Solid

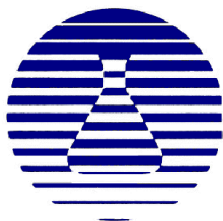
Date Collected: 07/18/07 10:00

Collected by: Mr. Dan Buterbaugh

Analysis Parameter	Result	Units	RDL	Method	Completed	Prep Date	By	Cntr
WET CHEMISTRY								
Moisture	17.4	%	0.1	SM20-2540 G	07/19/07 00:45	07/19/07	MWO	A
Total Solids	82.6	%	0.1	SM20-2540 G	07/19/07 00:45	07/19/07	MWO	A
METALS								
Lead, Total	658	mg/kg	1	SW846 6010B	07/27/07 11:40	07/26/07	JWK	A

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Lab ID #: **9694212004**
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Page: 5 Of 11

Project Name: **YORK RDA - NORTHWEST TRIANGLE**

PO#: 07214

Workorder ID: **Soils-Total Lead**

COC Number:

Sample ID: **C-SS4[6]**

Matrix: Solid

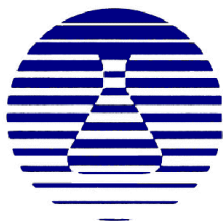
Date Collected: 07/18/07 10:05

Collected by: Mr. Dan Buterbaugh

Analysis Parameter	Result	Units	RDL	Method	Completed	Prep Date	By	Cntr
WET CHEMISTRY								
Moisture	10.5	%	0.1	SM20-2540 G	07/19/07 00:45	07/19/07	MWO	A
Total Solids	89.5	%	0.1	SM20-2540 G	07/19/07 00:45	07/19/07	MWO	A
METALS								
Lead, Total	554	mg/kg	0.8	SW846 6010B	07/27/07 11:46	07/26/07	JWK	A

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Certificate of Analysis

August 2, 2007

Mr. Dan Buterbaugh
ARM Group Inc.
1129 W. Governor Road
Hershey, PA 17033

Lab ID #: **9694212005**
Received: 07/18/07 14:07
Discard: 08/16/07

Page: 6 Of 11

Project Name: **YORK RDA - NORTHWEST TRIANGLE**

PO#: 07214

Workorder ID: **Soils-Total Lead**

COC Number:

Sample ID: **C-SS5[6]**

Matrix: Solid

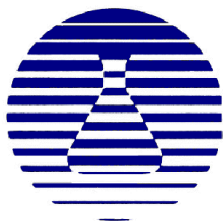
Date Collected: 07/18/07 10:10

Collected by: Mr. Dan Buterbaugh

Analysis Parameter	Result	Units	RDL	Method	Completed	Prep Date	By	Cntr
WET CHEMISTRY								
Moisture	19.6	%	0.1	SM20-2540 G	07/19/07 00:45	07/19/07	MWO	A
Total Solids	80.4	%	0.1	SM20-2540 G	07/19/07 00:45	07/19/07	MWO	A
METALS								
Lead, Total	1000	mg/kg	1	SW846 6010B	07/31/07 16:05	07/27/07	JWK	A1

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Raymond J. Martrano
Laboratory Manager



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Certificate of Analysis

August 2, 2007

Mr. Dan Buterbaugh
ARM Group Inc.
1129 W. Governor Road
Hershey, PA 17033

Lab ID #: **9694212006**
Received: 07/18/07 14:07
Discard: 08/16/07

Page: 7 Of 11

Project Name: **YORK RDA - NORTHWEST TRIANGLE**

PO#: 07214

Workorder ID: **Soils-Total Lead**

COC Number:

Sample ID: **C-SS6[6]**

Matrix: Solid

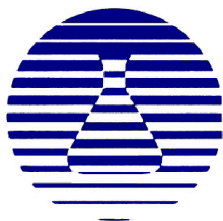
Date Collected: 07/18/07 10:15

Collected by: Mr. Dan Buterbaugh

Analysis Parameter	Result	Units	RDL	Method	Completed	Prep Date	By	Cntr
WET CHEMISTRY								
Moisture	17.4	%	0.1	SM20-2540 G	07/19/07 00:45	07/19/07	MWO	A
Total Solids	82.6	%	0.1	SM20-2540 G	07/19/07 00:45	07/19/07	MWO	A
METALS								
Lead, Total	749	mg/kg	2	SW846 6010B	07/31/07 16:10	07/27/07	JWK	A1

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Certificate of Analysis

August 2, 2007

Mr. Dan Buterbaugh
ARM Group Inc.
1129 W. Governor Road
Hershey, PA 17033

Lab ID #: **9694212007**
Received: 07/18/07 14:07
Discard: 08/16/07

Page: 8 Of 11

Project Name: **YORK RDA - NORTHWEST TRIANGLE**

PO#: 07214

Workorder ID: **Soils-Total Lead**

COC Number:

Sample ID: **C-SS7[20]**

Matrix: Solid

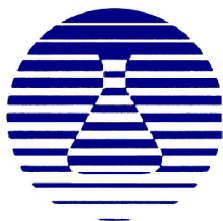
Date Collected: 07/18/07 10:30

Collected by: Mr. Dan Buterbaugh

Analysis Parameter	Result	Units	RDL	Method	Completed	Prep Date	By	Cntr
WET CHEMISTRY								
Moisture	1.9	%	0.1	SM20-2540 G	07/19/07 00:45	07/19/07	MWO	A
Total Solids	98.1	%	0.1	SM20-2540 G	07/19/07 00:45	07/19/07	MWO	A
METALS								
Lead, Total	17	mg/kg	4	SW846 6010B	08/01/07 01:05	07/27/07	TED	A1

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Laboratory Manager



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Certificate of Analysis

August 2, 2007

Mr. Dan Buterbaugh
ARM Group Inc.
1129 W. Governor Road
Hershey, PA 17033

Lab ID #: **9694212008**
Received: 07/18/07 14:07
Discard: 08/16/07

Page: 9 Of 11

Project Name: **YORK RDA - NORTHWEST TRIANGLE**

PO#: 07214

Workorder ID: **Soils-Total Lead**

COC Number:

Sample ID: **C-SS8[16]**

Matrix: Solid

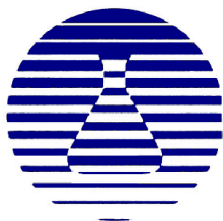
Date Collected: 07/18/07 11:00

Collected by: Mr. Dan Buterbaugh

Analysis Parameter	Result	Units	RDL	Method	Completed	Prep Date	By	Cntr
WET CHEMISTRY								
Moisture	18.1	%	0.1	SM20-2540 G	07/19/07 00:45	07/19/07	MWO	A
Total Solids	81.9	%	0.1	SM20-2540 G	07/19/07 00:45	07/19/07	MWO	A
METALS								
Lead, Total	1040	mg/kg	0.8	SW846 6010B	07/31/07 16:45	07/27/07	JWK	A1

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August 2, 2007

Mr. Dan Buterbaugh
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1129 W. Governor Road
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Lab ID #: **9694212009**
Received: 07/18/07 14:07
Discard: 08/16/07

Page: 10 Of 11

Project Name: **YORK RDA - NORTHWEST TRIANGLE**

PO#: 07214

Workorder ID: **Soils-Total Lead**

COC Number:

Sample ID: **C-SS9[22]**

Matrix: Solid

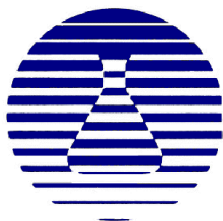
Date Collected: 07/18/07 11:15

Collected by: Mr. Dan Buterbaugh

Analysis Parameter	Result	Units	RDL	Method	Completed	Prep Date	By	Cntr
WET CHEMISTRY								
Moisture	8.9	%	0.1	SM20-2540 G	07/19/07 00:45	07/19/07	MWO	A
Total Solids	91.1	%	0.1	SM20-2540 G	07/19/07 00:45	07/19/07	MWO	A
METALS								
Lead, Total	14	mg/kg	1	SW846 6010B	07/31/07 16:51	07/27/07	JWK	A1

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Laboratory Manager



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Certificate of Analysis

August 2, 2007

Mr. Dan Buterbaugh
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1129 W. Governor Road
Hershey, PA 17033

Lab ID #: **9694212010**
Received: 07/18/07 14:07
Discard: 08/16/07

Page: 11 Of 11

Project Name: **YORK RDA - NORTHWEST TRIANGLE**

PO#: 07214

Workorder ID: **Soils-Total Lead**

COC Number:

Sample ID: **C-SS10[24]**

Matrix: Solid

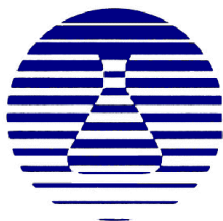
Date Collected: 07/18/07 11:25

Collected by: Mr. Dan Buterbaugh

Analysis Parameter	Result	Units	RDL	Method	Completed	Prep Date	By	Cntr
WET CHEMISTRY								
Moisture	18.9	%	0.1	SM20-2540 G	07/19/07 00:45	07/19/07	MWO	A
Total Solids	81.1	%	0.1	SM20-2540 G	07/19/07 00:45	07/19/07	MWO	A
METALS								
Lead, Total	19	mg/kg	1	SW846 6010B	07/31/07 16:57	07/27/07	JWK	A1

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

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Laboratory Manager



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Certificate of Analysis

August 2, 2007

Mr. Dan Buterbaugh
ARM Group Inc.
1129 W. Governor Road
Hershey, PA 17033

Lab ID#: **9694438**

Page: 1 Of 25

Project Name: **YORK RDA - NORTHWEST TRIANGLE**
Workorder ID: **Soils-8260B, 8270C, PCBs, Metals**

PO#: 07214

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Unless otherwise noted, all quantitative results for soils are reported on a dry weight basis. Samples collected by ALSI personnel are done so in accordance with the procedures set forth in the ALSI Field Sampling Plan.

A result of ND indicates that the analyte was Not Detected at the Reporting Detection Limit (RDL). The RDL, by default, is equivalent to the Practical Quantitation Limit (PQL) or may be equivalent to the Method Detection Limit (MDL), if specifically requested by the customer.

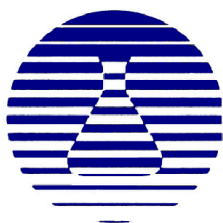
Qualifier Flags - These flags may follow individual results for a specific analyte

U - Indicates that the analyte was not detected

J - Indicates an estimated value between the MDL and PQL

Note: This cover letter and the attached Chain-of-Custody document is included as part of the Analytical Report and must be retained as a permanent record thereof.

Raymond J. Martrano
Laboratory Manager



Certificate of Analysis

August 2, 2007

Mr. Dan Buterbaugh
ARM Group Inc.
1129 W. Governor Road
Hershey, PA 17033

Lab ID #: **9694438001**
Received: 07/19/07 16:32
Discard: 08/16/07

Page: 2 Of 25

Project Name: **YORK RDA - NORTHWEST TRIANGLE**
Workorder ID: **Soils-8260B, 8270C, PCBs, Metals**

PO#: 07214
COC Number:

Sample ID: **D-SB2[11.5]**
Date Collected: 07/19/07 11:20

Matrix: Solid
Collected by: Mr. Dan Buterbaugh

Analysis Parameter	Result	Units	RDL	Method	Completed	Prep Date	By	Cntr
VOLATILE ORGANICS								
Acetone	45.0	ug/kg	26.4	8260/5035	07/24/07 22:08	07/19/07	ECR	B
Benzene	ND	ug/kg	2.1	8260/5035	07/24/07 22:08	07/19/07	ECR	B
Bromochloromethane	ND	ug/kg	2.1	8260/5035	07/24/07 22:08	07/19/07	ECR	B
Bromodichloromethane	ND	ug/kg	2.1	8260/5035	07/24/07 22:08	07/19/07	ECR	B
Bromoform	ND	ug/kg	2.1	8260/5035	07/24/07 22:08	07/19/07	ECR	B
Bromomethane	ND	ug/kg	4.2	8260/5035	07/24/07 22:08	07/19/07	ECR	B
2-Butanone	ND	ug/kg	10.5	8260/5035	07/24/07 22:08	07/19/07	ECR	B
Carbon Disulfide	ND	ug/kg	2.1	8260/5035	07/24/07 22:08	07/19/07	ECR	B
Carbon Tetrachloride	ND	ug/kg	2.1	8260/5035	07/24/07 22:08	07/19/07	ECR	B
Chlorobenzene	ND	ug/kg	2.1	8260/5035	07/24/07 22:08	07/19/07	ECR	B
Chlorodibromomethane	ND	ug/kg	2.1	8260/5035	07/24/07 22:08	07/19/07	ECR	B
Chloroethane	ND	ug/kg	2.1	8260/5035	07/24/07 22:08	07/19/07	ECR	B
Chloroform	ND	ug/kg	2.1	8260/5035	07/24/07 22:08	07/19/07	ECR	B
Chloromethane	ND	ug/kg	2.1	8260/5035	07/24/07 22:08	07/19/07	ECR	B
1,2-Dibromo-3-chloropropane	ND	ug/kg	4.2	8260/5035	07/24/07 22:08	07/19/07	ECR	B
1,2-Dibromoethane	ND	ug/kg	2.1	8260/5035	07/24/07 22:08	07/19/07	ECR	B
1,1-Dichloroethane	ND	ug/kg	2.1	8260/5035	07/24/07 22:08	07/19/07	ECR	B
1,2-Dichloroethane	ND	ug/kg	2.1	8260/5035	07/24/07 22:08	07/19/07	ECR	B
1,1-Dichloroethene	ND	ug/kg	2.1	8260/5035	07/24/07 22:08	07/19/07	ECR	B
cis-1,2-Dichloroethene	ND	ug/kg	2.1	8260/5035	07/24/07 22:08	07/19/07	ECR	B



Certificate of Analysis

August 2, 2007

Mr. Dan Buterbaugh
ARM Group Inc.
1129 W. Governor Road
Hershey, PA 17033

Lab ID #: **9694438001**
Received: 07/19/07 16:32
Discard: 08/16/07

Page: 3 Of 25

Project Name: **YORK RDA - NORTHWEST TRIANGLE**
Workorder ID: **Soils-8260B, 8270C, PCBs, Metals**

PO#: 07214
COC Number:

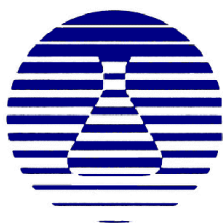
Sample ID: **D-SB2[11.5]**

Matrix: Solid

Date Collected: 07/19/07 11:20

Collected by: Mr. Dan Buterbaugh

Analysis Parameter	Result	Units	RDL	Method	Completed	Prep Date	By	Cntr
VOLATILE ORGANICS (continued)								
trans-1,2-Dichloroethene	ND	ug/kg	2.1	8260/5035	07/24/07 22:08	07/19/07	ECR	B
1,2-Dichloropropane	ND	ug/kg	2.1	8260/5035	07/24/07 22:08	07/19/07	ECR	B
cis-1,3-Dichloropropene	ND	ug/kg	2.1	8260/5035	07/24/07 22:08	07/19/07	ECR	B
trans-1,3-Dichloropropene	ND	ug/kg	2.1	8260/5035	07/24/07 22:08	07/19/07	ECR	B
Ethylbenzene	ND	ug/kg	2.1	8260/5035	07/24/07 22:08	07/19/07	ECR	B
2-Hexanone	ND	ug/kg	10.5	8260/5035	07/24/07 22:08	07/19/07	ECR	B
4-Methyl-2-Pentanone(MIBK)	ND	ug/kg	10.5	8260/5035	07/24/07 22:08	07/19/07	ECR	B
Methylene Chloride	2.8	ug/kg	2.1	8260/5035	07/24/07 22:08	07/19/07	ECR	B
Styrene	ND	ug/kg	2.1	8260/5035	07/24/07 22:08	07/19/07	ECR	B
1,1,2,2-Tetrachloroethane	ND	ug/kg	2.1	8260/5035	07/24/07 22:08	07/19/07	ECR	B
Tetrachloroethene	ND	ug/kg	2.1	8260/5035	07/24/07 22:08	07/19/07	ECR	B
Toluene	ND	ug/kg	2.1	8260/5035	07/24/07 22:08	07/19/07	ECR	B
Total Xylenes	ND	ug/kg	6.3	8260/5035	07/24/07 22:08	07/19/07	ECR	B
1,1,1-Trichloroethane	ND	ug/kg	2.1	8260/5035	07/24/07 22:08	07/19/07	ECR	B
1,1,2-Trichloroethane	ND	ug/kg	2.1	8260/5035	07/24/07 22:08	07/19/07	ECR	B
Trichloroethene	ND	ug/kg	2.1	8260/5035	07/24/07 22:08	07/19/07	ECR	B
Vinyl Chloride	ND	ug/kg	2.1	8260/5035	07/24/07 22:08	07/19/07	ECR	B
o-Xylene	ND	ug/kg	2.1	8260/5035	07/24/07 22:08	07/19/07	ECR	B
mp-Xylene	ND	ug/kg	4.2	8260/5035	07/24/07 22:08	07/19/07	ECR	B



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August 2, 2007

Mr. Dan Buterbaugh
ARM Group Inc.
1129 W. Governor Road
Hershey, PA 17033

Lab ID #: **9694438001**
Received: 07/19/07 16:32
Discard: 08/16/07

Page: 4 Of 25

Project Name: **YORK RDA - NORTHWEST TRIANGLE**
Workorder ID: **Soils-8260B, 8270C, PCBs, Metals**

PO#: 07214
COC Number:

Sample ID: **D-SB2[11.5]**
Date Collected: 07/19/07 11:20

Matrix: Solid
Collected by: Mr. Dan Buterbaugh

Analysis Parameter	Result	Units	RDL	Method	Completed	Prep Date	By	Cntr
SEMIVOLATILES								
Acenaphthene	ND	ug/kg	93	SW846 8270C	07/30/07 15:18	07/24/07	DRS	E1
Acenaphthylene	ND	ug/kg	93	SW846 8270C	07/30/07 15:18	07/24/07	DRS	E1
Anthracene	ND	ug/kg	93	SW846 8270C	07/30/07 15:18	07/24/07	DRS	E1
Benzo(a)anthracene	ND	ug/kg	93	SW846 8270C	07/30/07 15:18	07/24/07	DRS	E1
Benzo(a)pyrene	ND	ug/kg	93	SW846 8270C	07/30/07 15:18	07/24/07	DRS	E1
Benzo(b)fluoranthene	ND	ug/kg	93	SW846 8270C	07/30/07 15:18	07/24/07	DRS	E1
Benzo(g,h,i)perylene	ND	ug/kg	93	SW846 8270C	07/30/07 15:18	07/24/07	DRS	E1
Benzo(k)fluoranthene	ND	ug/kg	93	SW846 8270C	07/30/07 15:18	07/24/07	DRS	E1
4-Bromophenyl-phenylether	ND	ug/kg	132	SW846 8270C	07/30/07 15:18	07/24/07	DRS	E1
Butylbenzylphthalate	ND	ug/kg	132	SW846 8270C	07/30/07 15:18	07/24/07	DRS	E1
Carbazole	ND	ug/kg	132	SW846 8270C	07/30/07 15:18	07/24/07	DRS	E1
4-Chloro-3-methylphenol	ND	ug/kg	358	SW846 8270C	07/30/07 15:18	07/24/07	DRS	E1
4-Chloroaniline	ND	ug/kg	358	SW846 8270C	07/30/07 15:18	07/24/07	DRS	E1
Bis(2-Chloroethoxy)methane	ND	ug/kg	132	SW846 8270C	07/30/07 15:18	07/24/07	DRS	E1
Bis(2-Chloroethyl)ether	ND	ug/kg	132	SW846 8270C	07/30/07 15:18	07/24/07	DRS	E1
bis(2-Chloroisopropyl)ether	ND	ug/kg	132	SW846 8270C	07/30/07 15:18	07/24/07	DRS	E1
2-Chloronaphthalene	ND	ug/kg	132	SW846 8270C	07/30/07 15:18	07/24/07	DRS	E1
2-Chlorophenol	ND	ug/kg	358	SW846 8270C	07/30/07 15:18	07/24/07	DRS	E1
4-Chlorophenyl-phenylether	ND	ug/kg	132	SW846 8270C	07/30/07 15:18	07/24/07	DRS	E1
Chrysene	ND	ug/kg	93	SW846 8270C	07/30/07 15:18	07/24/07	DRS	E1



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ARM Group Inc.
1129 W. Governor Road
Hershey, PA 17033

Lab ID #: **9694438001**
Received: 07/19/07 16:32
Discard: 08/16/07

Page: 5 Of 25

Project Name: **YORK RDA - NORTHWEST TRIANGLE**
Workorder ID: **Soils-8260B, 8270C, PCBs, Metals**

PO#: 07214
COC Number:

Sample ID: **D-SB2[11.5]**

Matrix: Solid

Date Collected: 07/19/07 11:20

Collected by: Mr. Dan Buterbaugh

Analysis Parameter	Result	Units	RDL	Method	Completed	Prep Date	By	Cntr
SEMIVOLATILES (continued)								
mp-Cresol	ND	ug/kg	358	SW846 8270C	07/30/07 15:18	07/24/07	DRS	E1
o-Cresol	ND	ug/kg	358	SW846 8270C	07/30/07 15:18	07/24/07	DRS	E1
Di-n-Butylphthalate	ND	ug/kg	132	SW846 8270C	07/30/07 15:18	07/24/07	DRS	E1
Di-n-Octylphthalate	ND	ug/kg	358	SW846 8270C	07/30/07 15:18	07/24/07	DRS	E1
Dibenzo(a,h)anthracene	ND	ug/kg	93	SW846 8270C	07/30/07 15:18	07/24/07	DRS	E1
Dibenzofuran	ND	ug/kg	132	SW846 8270C	07/30/07 15:18	07/24/07	DRS	E1
1,2-Dichlorobenzene	ND	ug/kg	132	SW846 8270C	07/30/07 15:18	07/24/07	DRS	E1
1,3-Dichlorobenzene	ND	ug/kg	132	SW846 8270C	07/30/07 15:18	07/24/07	DRS	E1
1,4-Dichlorobenzene	ND	ug/kg	132	SW846 8270C	07/30/07 15:18	07/24/07	DRS	E1
3,3-Dichlorobenzidine	ND	ug/kg	132	SW846 8270C	07/30/07 15:18	07/24/07	DRS	E1
2,4-Dichlorophenol	ND	ug/kg	358	SW846 8270C	07/30/07 15:18	07/24/07	DRS	E1
Diethylphthalate	ND	ug/kg	132	SW846 8270C	07/30/07 15:18	07/24/07	DRS	E1
2,4-Dimethylphenol	ND	ug/kg	358	SW846 8270C	07/30/07 15:18	07/24/07	DRS	E1
Dimethylphthalate	ND	ug/kg	132	SW846 8270C	07/30/07 15:18	07/24/07	DRS	E1
2,4-Dinitrophenol	ND	ug/kg	715	SW846 8270C	07/30/07 15:18	07/24/07	DRS	E1
2,4-Dinitrotoluene	ND	ug/kg	132	SW846 8270C	07/30/07 15:18	07/24/07	DRS	E1
2,6-Dinitrotoluene	ND	ug/kg	132	SW846 8270C	07/30/07 15:18	07/24/07	DRS	E1
bis(2-Ethylhexyl)phthalate	ND	ug/kg	132	SW846 8270C	07/30/07 15:18	07/24/07	DRS	E1
Fluoranthene	ND	ug/kg	93	SW846 8270C	07/30/07 15:18	07/24/07	DRS	E1
Fluorene	ND	ug/kg	93	SW846 8270C	07/30/07 15:18	07/24/07	DRS	E1



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August 2, 2007

Mr. Dan Buterbaugh
ARM Group Inc.
1129 W. Governor Road
Hershey, PA 17033

Lab ID #: **9694438001**
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Page: 6 Of 25

Project Name: **YORK RDA - NORTHWEST TRIANGLE**
Workorder ID: **Soils-8260B, 8270C, PCBs, Metals**

PO#: 07214
COC Number:

Sample ID: **D-SB2[11.5]**
Date Collected: 07/19/07 11:20

Matrix: Solid
Collected by: Mr. Dan Buterbaugh

Analysis Parameter	Result	Units	RDL	Method	Completed	Prep Date	By	Cntr
SEMIVOLATILES (continued)								
Hexachlorobenzene	ND	ug/kg	132	SW846 8270C	07/30/07 15:18	07/24/07	DRS	E1
Hexachlorobutadiene	ND	ug/kg	132	SW846 8270C	07/30/07 15:18	07/24/07	DRS	E1
Hexachlorocyclopentadiene	ND	ug/kg	358	SW846 8270C	07/30/07 15:18	07/24/07	DRS	E1
Hexachloroethane	ND	ug/kg	132	SW846 8270C	07/30/07 15:18	07/24/07	DRS	E1
Indeno(1,2,3-cd)pyrene	ND	ug/kg	93	SW846 8270C	07/30/07 15:18	07/24/07	DRS	E1
Isophorone	ND	ug/kg	132	SW846 8270C	07/30/07 15:18	07/24/07	DRS	E1
2-Methyl-4,6-dinitrophenol	ND	ug/kg	358	SW846 8270C	07/30/07 15:18	07/24/07	DRS	E1
2-Methylnaphthalene	ND	ug/kg	93	SW846 8270C	07/30/07 15:18	07/24/07	DRS	E1
Naphthalene	ND	ug/kg	93	SW846 8270C	07/30/07 15:18	07/24/07	DRS	E1
2-Nitroaniline	ND	ug/kg	132	SW846 8270C	07/30/07 15:18	07/24/07	DRS	E1
3-Nitroaniline	ND	ug/kg	358	SW846 8270C	07/30/07 15:18	07/24/07	DRS	E1
4-Nitroaniline	ND	ug/kg	358	SW846 8270C	07/30/07 15:18	07/24/07	DRS	E1
Nitrobenzene	ND	ug/kg	132	SW846 8270C	07/30/07 15:18	07/24/07	DRS	E1
2-Nitrophenol	ND	ug/kg	358	SW846 8270C	07/30/07 15:18	07/24/07	DRS	E1
4-Nitrophenol	ND	ug/kg	715	SW846 8270C	07/30/07 15:18	07/24/07	DRS	E1
N-Nitroso-di-n-propylamine	ND	ug/kg	132	SW846 8270C	07/30/07 15:18	07/24/07	DRS	E1
N-Nitrosodiphenylamine	ND	ug/kg	132	SW846 8270C	07/30/07 15:18	07/24/07	DRS	E1
Pentachlorophenol	ND	ug/kg	715	SW846 8270C	07/30/07 15:18	07/24/07	DRS	E1
Phenanthrene	ND	ug/kg	93	SW846 8270C	07/30/07 15:18	07/24/07	DRS	E1
Phenol	ND	ug/kg	358	SW846 8270C	07/30/07 15:18	07/24/07	DRS	E1



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Page: 7 Of 25

Project Name: **YORK RDA - NORTHWEST TRIANGLE**
Workorder ID: **Soils-8260B, 8270C, PCBs, Metals**

PO#: 07214
COC Number:

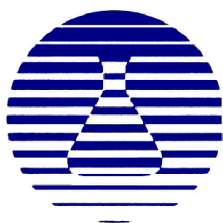
Sample ID: **D-SB2[11.5]**

Matrix: Solid

Date Collected: 07/19/07 11:20

Collected by: Mr. Dan Buterbaugh

Analysis Parameter	Result	Units	RDL	Method	Completed	Prep Date	By	Cntr
SEMIVOLATILES (continued)								
Pyrene	ND	ug/kg	93	SW846 8270C	07/30/07 15:18	07/24/07	DRS	E1
1,2,4-Trichlorobenzene	ND	ug/kg	132	SW846 8270C	07/30/07 15:18	07/24/07	DRS	E1
2,4,5-Trichlorophenol	ND	ug/kg	358	SW846 8270C	07/30/07 15:18	07/24/07	DRS	E1
2,4,6-Trichlorophenol	ND	ug/kg	358	SW846 8270C	07/30/07 15:18	07/24/07	DRS	E1
PCB'S								
Aroclor-1016	ND	mg/kg	0.042	SW846 8082	07/27/07 03:41	07/25/07	JJH	E2
Aroclor-1221	ND	mg/kg	0.042	SW846 8082	07/27/07 03:41	07/25/07	JJH	E2
Aroclor-1232	ND	mg/kg	0.042	SW846 8082	07/27/07 03:41	07/25/07	JJH	E2
Aroclor-1242	ND	mg/kg	0.042	SW846 8082	07/27/07 03:41	07/25/07	JJH	E2
Aroclor-1248	ND	mg/kg	0.042	SW846 8082	07/27/07 03:41	07/25/07	JJH	E2
Aroclor-1254	ND	mg/kg	0.042	SW846 8082	07/27/07 03:41	07/25/07	JJH	E2
Aroclor-1260	ND	mg/kg	0.042	SW846 8082	07/27/07 03:41	07/25/07	JJH	E2
WET CHEMISTRY								
Moisture	24.5	%	0.1	SM20-2540 G	07/20/07 06:00	07/20/07	KMW	E
Total Solids	75.5	%	0.1	SM20-2540 G	07/20/07 06:00	07/20/07	KMW	E



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Page: 8 Of 25

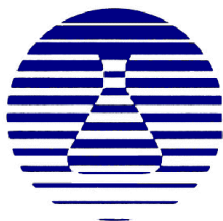
Project Name: **YORK RDA - NORTHWEST TRIANGLE**
Workorder ID: **Soils-8260B, 8270C, PCBs, Metals**

PO#: 07214
COC Number:

Sample ID: **D-SB2[11.5]**
Date Collected: 07/19/07 11:20

Matrix: Solid
Collected by: Mr. Dan Buterbaugh

Analysis Parameter	Result	Units	RDL	Method	Completed	Prep Date	By	Cntr
METALS								
Arsenic, Total	4	mg/kg	3	SW846 6010B	07/31/07 17:48	07/27/07	JWK	E3
Barium, Total	20	mg/kg	1	SW846 6010B	07/31/07 17:48	07/27/07	JWK	E3
Cadmium, Total	1.3	mg/kg	0.6	SW846 6010B	07/31/07 17:48	07/27/07	JWK	E3
Chromium, Total	7.0	mg/kg	1.2	SW846 6010B	07/31/07 17:48	07/27/07	JWK	E3
Lead, Total	19	mg/kg	1	SW846 6010B	07/31/07 17:48	07/27/07	JWK	E3
Mercury, Total	ND	mg/kg	0.22	SW846 7471B	07/31/07 09:11	07/30/07	CMD	E4
Selenium, Total	ND	mg/kg	6	SW846 6010B	08/01/07 20:17	07/27/07	JVU	E3
Silver, Total	ND	mg/kg	0.6	SW846 6010B	07/31/07 17:48	07/27/07	JWK	E3
Surrogates								
	Result	Units	Recovery	Limits				
2,4,6-Tribromophenol	1990	ug/kg	60.0%	(24 - 130)				
1,2-Dichloroethane-d4	20.1	ug/kg	84.0%	(56 - 124)				
Dibromofluoromethane	20.2	ug/kg	85.0%	(62 - 123)				
Toluene-d8	21.1	ug/kg	88.0%	(59 - 131)				
Decachlorobiphenyl	.066	mg/kg	83.0%	(30 - 150)				
2-Fluorobiphenyl	909	ug/kg	55.0%	(40 - 113)				
2-Fluorophenol	1740	ug/kg	52.0%	(25 - 110)				
Nitrobenzene-d5	1060	ug/kg	63.0%	(36 - 113)				
Phenol-d5	2100	ug/kg	63.0%	(28 - 111)				
4-Bromofluorobenzene	20.6	ug/kg	86.0%	(51 - 128)				



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Lab ID #: **9694438001**
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Page: 9 Of 25

Project Name: **YORK RDA - NORTHWEST TRIANGLE**
Workorder ID: **Soils-8260B, 8270C, PCBs, Metals**

PO#: 07214
COC Number:

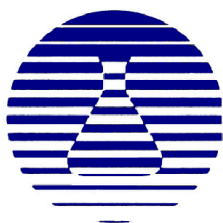
Sample ID: **D-SB2[11.5]**
Date Collected: 07/19/07 11:20

Matrix: Solid
Collected by: Mr. Dan Buterbaugh

Surrogates (continued)	Result	Units	Recovery	Limits
Tetrachloro-m-xylene	.066	mg/kg	83.0%	(30 - 136)
Terphenyl-d14	1080	ug/kg	65.0%	(35 - 135)

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

Raymond J. Martrano
Laboratory Manager



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Received: 07/19/07 16:32
Discard: 08/16/07

Page: 10 Of 25

Project Name: **YORK RDA - NORTHWEST TRIANGLE**
Workorder ID: **Soils-8260B, 8270C, PCBs, Metals**

PO#: 07214
COC Number:

Sample ID: **D-SB5[7.5]**
Date Collected: 07/19/07 14:50

Matrix: Solid
Collected by: Mr. Dan Buterbaugh

Analysis Parameter	Result	Units	RDL	Method	Completed	Prep Date	By	Cntr
VOLATILE ORGANICS								
Acetone	ND	ug/kg	522	8260/5035	07/26/07 17:04	07/19/07	JAH	A
Benzene	8380	ug/kg	52.2	8260/5035	07/26/07 17:04	07/19/07	JAH	A
Bromochloromethane	ND	ug/kg	52.2	8260/5035	07/26/07 17:04	07/19/07	JAH	A
Bromodichloromethane	ND	ug/kg	52.2	8260/5035	07/26/07 17:04	07/19/07	JAH	A
Bromoform	ND	ug/kg	52.2	8260/5035	07/26/07 17:04	07/19/07	JAH	A
Bromomethane	ND	ug/kg	52.2	8260/5035	07/26/07 17:04	07/19/07	JAH	A
2-Butanone	ND	ug/kg	522	8260/5035	07/26/07 17:04	07/19/07	JAH	A
Carbon Disulfide	ND	ug/kg	52.2	8260/5035	07/26/07 17:04	07/19/07	JAH	A
Carbon Tetrachloride	ND	ug/kg	52.2	8260/5035	07/26/07 17:04	07/19/07	JAH	A
Chlorobenzene	ND	ug/kg	52.2	8260/5035	07/26/07 17:04	07/19/07	JAH	A
Chlorodibromomethane	ND	ug/kg	52.2	8260/5035	07/26/07 17:04	07/19/07	JAH	A
Chloroethane	ND	ug/kg	52.2	8260/5035	07/26/07 17:04	07/19/07	JAH	A
Chloroform	ND	ug/kg	52.2	8260/5035	07/26/07 17:04	07/19/07	JAH	A
Chloromethane	ND	ug/kg	52.2	8260/5035	07/26/07 17:04	07/19/07	JAH	A
1,2-Dibromo-3-chloropropane	ND	ug/kg	365	8260/5035	07/26/07 17:04	07/19/07	JAH	A
1,2-Dibromoethane	ND	ug/kg	52.2	8260/5035	07/26/07 17:04	07/19/07	JAH	A
1,1-Dichloroethane	ND	ug/kg	52.2	8260/5035	07/26/07 17:04	07/19/07	JAH	A
1,2-Dichloroethane	ND	ug/kg	52.2	8260/5035	07/26/07 17:04	07/19/07	JAH	A
1,1-Dichloroethene	ND	ug/kg	52.2	8260/5035	07/26/07 17:04	07/19/07	JAH	A
cis-1,2-Dichloroethene	ND	ug/kg	52.2	8260/5035	07/26/07 17:04	07/19/07	JAH	A



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Page: 11 Of 25

Project Name: **YORK RDA - NORTHWEST TRIANGLE**
Workorder ID: **Soils-8260B, 8270C, PCBs, Metals**

PO#: 07214
COC Number:

Sample ID: **D-SB5[7.5]**

Matrix: Solid

Date Collected: 07/19/07 14:50

Collected by: Mr. Dan Buterbaugh

Analysis Parameter	Result	Units	RDL	Method	Completed	Prep Date	By	Cntr
VOLATILE ORGANICS (continued)								
trans-1,2-Dichloroethene	ND	ug/kg	52.2	8260/5035	07/26/07 17:04	07/19/07	JAH	A
1,2-Dichloropropane	ND	ug/kg	52.2	8260/5035	07/26/07 17:04	07/19/07	JAH	A
cis-1,3-Dichloropropene	ND	ug/kg	52.2	8260/5035	07/26/07 17:04	07/19/07	JAH	A
trans-1,3-Dichloropropene	ND	ug/kg	52.2	8260/5035	07/26/07 17:04	07/19/07	JAH	A
Ethylbenzene	3860	ug/kg	52.2	8260/5035	07/26/07 17:04	07/19/07	JAH	A
2-Hexanone	ND	ug/kg	261	8260/5035	07/26/07 17:04	07/19/07	JAH	A
4-Methyl-2-Pentanone(MIBK)	ND	ug/kg	261	8260/5035	07/26/07 17:04	07/19/07	JAH	A
Methylene Chloride	ND	ug/kg	52.2	8260/5035	07/26/07 17:04	07/19/07	JAH	A
Styrene	ND	ug/kg	52.2	8260/5035	07/26/07 17:04	07/19/07	JAH	A
1,1,2,2-Tetrachloroethane	ND	ug/kg	52.2	8260/5035	07/26/07 17:04	07/19/07	JAH	A
Tetrachloroethene	ND	ug/kg	52.2	8260/5035	07/26/07 17:04	07/19/07	JAH	A
Toluene	8110	ug/kg	52.2	8260/5035	07/26/07 17:04	07/19/07	JAH	A
Total Xylenes	9670	ug/kg	156	8260/5035	07/26/07 17:04	07/19/07	JAH	A
1,1,1-Trichloroethane	ND	ug/kg	52.2	8260/5035	07/26/07 17:04	07/19/07	JAH	A
1,1,2-Trichloroethane	ND	ug/kg	52.2	8260/5035	07/26/07 17:04	07/19/07	JAH	A
Trichloroethene	ND	ug/kg	52.2	8260/5035	07/26/07 17:04	07/19/07	JAH	A
Vinyl Chloride	ND	ug/kg	52.2	8260/5035	07/26/07 17:04	07/19/07	JAH	A
o-Xylene	1750	ug/kg	52.2	8260/5035	07/26/07 17:04	07/19/07	JAH	A
mp-Xylene	7920	ug/kg	104	8260/5035	07/26/07 17:04	07/19/07	JAH	A



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Page: 12 Of 25

Project Name: **YORK RDA - NORTHWEST TRIANGLE**
Workorder ID: **Soils-8260B, 8270C, PCBs, Metals**

PO#: 07214
COC Number:

Sample ID: **D-SB5[7.5]**
Date Collected: 07/19/07 14:50

Matrix: Solid
Collected by: Mr. Dan Buterbaugh

Analysis Parameter	Result	Units	RDL	Method	Completed	Prep Date	By	Cntr
SEMIVOLATILES								
Acenaphthene	347	ug/kg	83	SW846 8270C	07/30/07 16:08	07/24/07	DRS	E1
Acenaphthylene	104	ug/kg	83	SW846 8270C	07/30/07 16:08	07/24/07	DRS	E1
Anthracene	174	ug/kg	83	SW846 8270C	07/30/07 16:08	07/24/07	DRS	E1
Benzo(a)anthracene	ND	ug/kg	83	SW846 8270C	07/30/07 16:08	07/24/07	DRS	E1
Benzo(a)pyrene	ND	ug/kg	83	SW846 8270C	07/30/07 16:08	07/24/07	DRS	E1
Benzo(b)fluoranthene	ND	ug/kg	83	SW846 8270C	07/30/07 16:08	07/24/07	DRS	E1
Benzo(g,h,i)perylene	ND	ug/kg	83	SW846 8270C	07/30/07 16:08	07/24/07	DRS	E1
Benzo(k)fluoranthene	ND	ug/kg	83	SW846 8270C	07/30/07 16:08	07/24/07	DRS	E1
4-Bromophenyl-phenylether	ND	ug/kg	119	SW846 8270C	07/30/07 16:08	07/24/07	DRS	E1
Butylbenzylphthalate	ND	ug/kg	119	SW846 8270C	07/30/07 16:08	07/24/07	DRS	E1
Carbazole	ND	ug/kg	119	SW846 8270C	07/30/07 16:08	07/24/07	DRS	E1
4-Chloro-3-methylphenol	ND	ug/kg	321	SW846 8270C	07/30/07 16:08	07/24/07	DRS	E1
4-Chloroaniline	ND	ug/kg	321	SW846 8270C	07/30/07 16:08	07/24/07	DRS	E1
Bis(2-Chloroethoxy)methane	ND	ug/kg	119	SW846 8270C	07/30/07 16:08	07/24/07	DRS	E1
Bis(2-Chloroethyl)ether	ND	ug/kg	119	SW846 8270C	07/30/07 16:08	07/24/07	DRS	E1
bis(2-Chloroisopropyl)ether	ND	ug/kg	119	SW846 8270C	07/30/07 16:08	07/24/07	DRS	E1
2-Chloronaphthalene	ND	ug/kg	119	SW846 8270C	07/30/07 16:08	07/24/07	DRS	E1
2-Chlorophenol	ND	ug/kg	321	SW846 8270C	07/30/07 16:08	07/24/07	DRS	E1
4-Chlorophenyl-phenylether	ND	ug/kg	119	SW846 8270C	07/30/07 16:08	07/24/07	DRS	E1
Chrysene	ND	ug/kg	83	SW846 8270C	07/30/07 16:08	07/24/07	DRS	E1



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Page: 13 Of 25

Project Name: **YORK RDA - NORTHWEST TRIANGLE**
Workorder ID: **Soils-8260B, 8270C, PCBs, Metals**

PO#: 07214
COC Number:

Sample ID: **D-SB5[7.5]**

Matrix: Solid

Date Collected: 07/19/07 14:50

Collected by: Mr. Dan Buterbaugh

Analysis Parameter	Result	Units	RDL	Method	Completed	Prep Date	By	Cntr
SEMIVOLATILES (continued)								
mp-Cresol	ND	ug/kg	321	SW846 8270C	07/30/07 16:08	07/24/07	DRS	E1
o-Cresol	ND	ug/kg	321	SW846 8270C	07/30/07 16:08	07/24/07	DRS	E1
Di-n-Butylphthalate	ND	ug/kg	119	SW846 8270C	07/30/07 16:08	07/24/07	DRS	E1
Di-n-Octylphthalate	ND	ug/kg	321	SW846 8270C	07/30/07 16:08	07/24/07	DRS	E1
Dibenzo(a,h)anthracene	ND	ug/kg	83	SW846 8270C	07/30/07 16:08	07/24/07	DRS	E1
Dibenzofuran	227	ug/kg	119	SW846 8270C	07/30/07 16:08	07/24/07	DRS	E1
1,2-Dichlorobenzene	ND	ug/kg	119	SW846 8270C	07/30/07 16:08	07/24/07	DRS	E1
1,3-Dichlorobenzene	ND	ug/kg	119	SW846 8270C	07/30/07 16:08	07/24/07	DRS	E1
1,4-Dichlorobenzene	ND	ug/kg	119	SW846 8270C	07/30/07 16:08	07/24/07	DRS	E1
3,3-Dichlorobenzidine	ND	ug/kg	119	SW846 8270C	07/30/07 16:08	07/24/07	DRS	E1
2,4-Dichlorophenol	ND	ug/kg	321	SW846 8270C	07/30/07 16:08	07/24/07	DRS	E1
Diethylphthalate	ND	ug/kg	119	SW846 8270C	07/30/07 16:08	07/24/07	DRS	E1
2,4-Dimethylphenol	ND	ug/kg	321	SW846 8270C	07/30/07 16:08	07/24/07	DRS	E1
Dimethylphthalate	ND	ug/kg	119	SW846 8270C	07/30/07 16:08	07/24/07	DRS	E1
2,4-Dinitrophenol	ND	ug/kg	641	SW846 8270C	07/30/07 16:08	07/24/07	DRS	E1
2,4-Dinitrotoluene	ND	ug/kg	119	SW846 8270C	07/30/07 16:08	07/24/07	DRS	E1
2,6-Dinitrotoluene	ND	ug/kg	119	SW846 8270C	07/30/07 16:08	07/24/07	DRS	E1
bis(2-Ethylhexyl)phthalate	ND	ug/kg	119	SW846 8270C	07/30/07 16:08	07/24/07	DRS	E1
Fluoranthene	ND	ug/kg	83	SW846 8270C	07/30/07 16:08	07/24/07	DRS	E1
Fluorene	627	ug/kg	83	SW846 8270C	07/30/07 16:08	07/24/07	DRS	E1



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ARM Group Inc.
1129 W. Governor Road
Hershey, PA 17033

Lab ID #: **9694438002**
Received: 07/19/07 16:32
Discard: 08/16/07

Page: 14 Of 25

Project Name: **YORK RDA - NORTHWEST TRIANGLE**
Workorder ID: **Soils-8260B, 8270C, PCBs, Metals**

PO#: 07214
COC Number:

Sample ID: **D-SB5[7.5]**
Date Collected: 07/19/07 14:50

Matrix: Solid
Collected by: Mr. Dan Buterbaugh

Analysis Parameter	Result	Units	RDL	Method	Completed	Prep Date	By	Cntr
SEMIVOLATILES (continued)								
Hexachlorobenzene	ND	ug/kg	119	SW846 8270C	07/30/07 16:08	07/24/07	DRS	E1
Hexachlorobutadiene	ND	ug/kg	119	SW846 8270C	07/30/07 16:08	07/24/07	DRS	E1
Hexachlorocyclopentadiene	ND	ug/kg	321	SW846 8270C	07/30/07 16:08	07/24/07	DRS	E1
Hexachloroethane	ND	ug/kg	119	SW846 8270C	07/30/07 16:08	07/24/07	DRS	E1
Indeno(1,2,3-cd)pyrene	ND	ug/kg	83	SW846 8270C	07/30/07 16:08	07/24/07	DRS	E1
Isophorone	ND	ug/kg	119	SW846 8270C	07/30/07 16:08	07/24/07	DRS	E1
2-Methyl-4,6-dinitrophenol	ND	ug/kg	321	SW846 8270C	07/30/07 16:08	07/24/07	DRS	E1
2-Methylnaphthalene	8280	ug/kg	332	SW846 8270C	07/31/07 23:14	07/24/07	DRS	E1
Naphthalene	512	ug/kg	83	SW846 8270C	07/30/07 16:08	07/24/07	DRS	E1
2-Nitroaniline	ND	ug/kg	119	SW846 8270C	07/30/07 16:08	07/24/07	DRS	E1
3-Nitroaniline	ND	ug/kg	321	SW846 8270C	07/30/07 16:08	07/24/07	DRS	E1
4-Nitroaniline	ND	ug/kg	321	SW846 8270C	07/30/07 16:08	07/24/07	DRS	E1
Nitrobenzene	ND	ug/kg	119	SW846 8270C	07/30/07 16:08	07/24/07	DRS	E1
2-Nitrophenol	ND	ug/kg	321	SW846 8270C	07/30/07 16:08	07/24/07	DRS	E1
4-Nitrophenol	ND	ug/kg	641	SW846 8270C	07/30/07 16:08	07/24/07	DRS	E1
N-Nitroso-di-n-propylamine	ND	ug/kg	119	SW846 8270C	07/30/07 16:08	07/24/07	DRS	E1
N-Nitrosodiphenylamine	670	ug/kg	119	SW846 8270C	07/30/07 16:08	07/24/07	DRS	E1
Pentachlorophenol	ND	ug/kg	641	SW846 8270C	07/30/07 16:08	07/24/07	DRS	E1
Phenanthrene	2080	ug/kg	83	SW846 8270C	07/30/07 16:08	07/24/07	DRS	E1
Phenol	ND	ug/kg	321	SW846 8270C	07/30/07 16:08	07/24/07	DRS	E1



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Discard: 08/16/07

Page: 15 Of 25

Project Name: **YORK RDA - NORTHWEST TRIANGLE**
Workorder ID: **Soils-8260B, 8270C, PCBs, Metals**

PO#: 07214
COC Number:

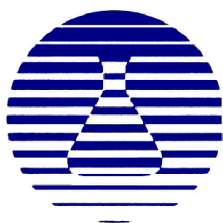
Sample ID: **D-SB5[7.5]**

Matrix: Solid

Date Collected: 07/19/07 14:50

Collected by: Mr. Dan Buterbaugh

Analysis Parameter	Result	Units	RDL	Method	Completed	Prep Date	By	Cntr
SEMIVOLATILES (continued)								
Pyrene	195	ug/kg	83	SW846 8270C	07/30/07 16:08	07/24/07	DRS	E1
1,2,4-Trichlorobenzene	ND	ug/kg	119	SW846 8270C	07/30/07 16:08	07/24/07	DRS	E1
2,4,5-Trichlorophenol	ND	ug/kg	321	SW846 8270C	07/30/07 16:08	07/24/07	DRS	E1
2,4,6-Trichlorophenol	ND	ug/kg	321	SW846 8270C	07/30/07 16:08	07/24/07	DRS	E1
PCB'S								
Aroclor-1016	ND	mg/kg	0.038	SW846 8082	07/27/07 04:12	07/25/07	JJH	E2
Aroclor-1221	ND	mg/kg	0.038	SW846 8082	07/27/07 04:12	07/25/07	JJH	E2
Aroclor-1232	ND	mg/kg	0.038	SW846 8082	07/27/07 04:12	07/25/07	JJH	E2
Aroclor-1242	ND	mg/kg	0.038	SW846 8082	07/27/07 04:12	07/25/07	JJH	E2
Aroclor-1248	ND	mg/kg	0.038	SW846 8082	07/27/07 04:12	07/25/07	JJH	E2
Aroclor-1254	ND	mg/kg	0.038	SW846 8082	07/27/07 04:12	07/25/07	JJH	E2
Aroclor-1260	ND	mg/kg	0.038	SW846 8082	07/27/07 04:12	07/25/07	JJH	E2
WET CHEMISTRY								
Moisture	16.1	%	0.1	SM20-2540 G	07/20/07 06:00	07/20/07	KMW	E
Total Solids	83.9	%	0.1	SM20-2540 G	07/20/07 06:00	07/20/07	KMW	E



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Discard: 08/16/07

Page: 16 Of 25

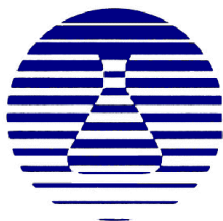
Project Name: **YORK RDA - NORTHWEST TRIANGLE**
Workorder ID: **Soils-8260B,8270C,PCBs,Metals**

PO#: 07214
COC Number:

Sample ID: **D-SB5[7.5]**
Date Collected: 07/19/07 14:50

Matrix: Solid
Collected by: Mr. Dan Buterbaugh

Analysis Parameter	Result	Units	RDL	Method	Completed	Prep Date	By	Cntr
METALS								
Arsenic, Total	6	mg/kg	3	SW846 6010B	08/01/07 01:17	07/27/07	JWK	E3
Barium, Total	51	mg/kg	1	SW846 6010B	07/31/07 17:54	07/27/07	JWK	E3
Cadmium, Total	1.2	mg/kg	0.5	SW846 6010B	07/31/07 17:54	07/27/07	JWK	E3
Chromium, Total	20.3	mg/kg	1.1	SW846 6010B	07/31/07 17:54	07/27/07	JWK	E3
Lead, Total	13	mg/kg	1	SW846 6010B	07/31/07 17:54	07/27/07	JWK	E3
Mercury, Total	ND	mg/kg	0.21	SW846 7471B	07/31/07 09:14	07/30/07	CMD	E4
Selenium, Total	ND	mg/kg	5	SW846 6010B	08/01/07 20:21	07/27/07	JVU	E3
Silver, Total	ND	mg/kg	0.5	SW846 6010B	07/31/07 17:54	07/27/07	JWK	E3
Surrogates								
	Result	Units	Recovery	Limits				
2,4,6-Tribromophenol	2210	ug/kg	67.0%	(24 - 130)				
2,4,6-Tribromophenol	1910	ug/kg	57.0%	(24 - 130)				
1,2-Dichloroethane-d4	1180	ug/kg	90.0%	(71 - 146)				
Dibromofluoromethane	1150	ug/kg	87.0%	(42 - 143)				
Toluene-d8	1200	ug/kg	92.0%	(54 - 141)				
Decachlorobiphenyl	.059	mg/kg	73.0%	(30 - 150)				
2-Fluorobiphenyl	905	ug/kg	54.0%	(40 - 113)				
2-Fluorobiphenyl	946	ug/kg	57.0%	(40 - 113)				
2-Fluorophenol	1830	ug/kg	55.0%	(25 - 110)				
2-Fluorophenol	1720	ug/kg	52.0%	(25 - 110)				



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Page: 17 Of 25

Project Name: **YORK RDA - NORTHWEST TRIANGLE**
Workorder ID: **Soils-8260B, 8270C, PCBs, Metals**

PO#: 07214
COC Number:

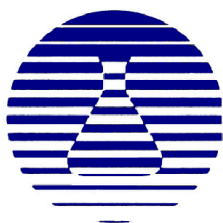
Sample ID: **D-SB5[7.5]**
Date Collected: 07/19/07 14:50

Matrix: Solid
Collected by: Mr. Dan Buterbaugh

Surrogates (continued)	Result	Units	Recovery	Limits
Nitrobenzene-d5	1130	ug/kg	68.0%	(36 - 113)
Nitrobenzene-d5	1050	ug/kg	63.0%	(36 - 113)
Phenol-d5	2130	ug/kg	64.0%	(28 - 111)
Phenol-d5	2050	ug/kg	62.0%	(28 - 111)
4-Bromofluorobenzene	1080	ug/kg	82.0%	(46 - 138)
Tetrachloro-m-xylene	.051	mg/kg	63.0%	(30 - 136)
Terphenyl-d14	980	ug/kg	59.0%	(35 - 135)
Terphenyl-d14	809	ug/kg	49.0%	(35 - 135)

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

Raymond J. Martrano
Laboratory Manager



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Discard: 08/16/07

Page: 18 Of 25

Project Name: **YORK RDA - NORTHWEST TRIANGLE**
Workorder ID: **Soils-8260B, 8270C, PCBs, Metals**

PO#: 07214
COC Number:

Sample ID: **D-SB6[6]**
Date Collected: 07/19/07 15:25

Matrix: Solid
Collected by: Mr. Dan Buterbaugh

Analysis Parameter	Result	Units	RDL	Method	Completed	Prep Date	By	Cntr
VOLATILE ORGANICS								
Acetone	33.9	ug/kg	23.3	8260/5035	07/26/07 02:52	07/19/07	JAH	C
Benzene	ND	ug/kg	1.9	8260/5035	07/26/07 02:52	07/19/07	JAH	C
Bromochloromethane	ND	ug/kg	1.9	8260/5035	07/26/07 02:52	07/19/07	JAH	C
Bromodichloromethane	ND	ug/kg	1.9	8260/5035	07/26/07 02:52	07/19/07	JAH	C
Bromoform	ND	ug/kg	1.9	8260/5035	07/26/07 02:52	07/19/07	JAH	C
Bromomethane	ND	ug/kg	3.7	8260/5035	07/26/07 02:52	07/19/07	JAH	C
2-Butanone	ND	ug/kg	9.3	8260/5035	07/26/07 02:52	07/19/07	JAH	C
Carbon Disulfide	ND	ug/kg	1.9	8260/5035	07/26/07 02:52	07/19/07	JAH	C
Carbon Tetrachloride	ND	ug/kg	1.9	8260/5035	07/26/07 02:52	07/19/07	JAH	C
Chlorobenzene	ND	ug/kg	1.9	8260/5035	07/26/07 02:52	07/19/07	JAH	C
Chlorodibromomethane	ND	ug/kg	1.9	8260/5035	07/26/07 02:52	07/19/07	JAH	C
Chloroethane	ND	ug/kg	1.9	8260/5035	07/26/07 02:52	07/19/07	JAH	C
Chloroform	ND	ug/kg	1.9	8260/5035	07/26/07 02:52	07/19/07	JAH	C
Chloromethane	ND	ug/kg	1.9	8260/5035	07/26/07 02:52	07/19/07	JAH	C
1,2-Dibromo-3-chloropropane	ND	ug/kg	3.7	8260/5035	07/26/07 02:52	07/19/07	JAH	C
1,2-Dibromoethane	ND	ug/kg	1.9	8260/5035	07/26/07 02:52	07/19/07	JAH	C
1,1-Dichloroethane	ND	ug/kg	1.9	8260/5035	07/26/07 02:52	07/19/07	JAH	C
1,2-Dichloroethane	ND	ug/kg	1.9	8260/5035	07/26/07 02:52	07/19/07	JAH	C
1,1-Dichloroethene	ND	ug/kg	1.9	8260/5035	07/26/07 02:52	07/19/07	JAH	C
cis-1,2-Dichloroethene	ND	ug/kg	1.9	8260/5035	07/26/07 02:52	07/19/07	JAH	C



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Page: 19 Of 25

Project Name: **YORK RDA - NORTHWEST TRIANGLE**
Workorder ID: **Soils-8260B, 8270C, PCBs, Metals**

PO#: 07214
COC Number:

Sample ID: **D-SB6[6]**

Matrix: Solid

Date Collected: 07/19/07 15:25

Collected by: Mr. Dan Buterbaugh

Analysis Parameter	Result	Units	RDL	Method	Completed	Prep Date	By	Cntr
VOLATILE ORGANICS (continued)								
trans-1,2-Dichloroethene	ND	ug/kg	1.9	8260/5035	07/26/07 02:52	07/19/07	JAH	C
1,2-Dichloropropane	ND	ug/kg	1.9	8260/5035	07/26/07 02:52	07/19/07	JAH	C
cis-1,3-Dichloropropene	ND	ug/kg	1.9	8260/5035	07/26/07 02:52	07/19/07	JAH	C
trans-1,3-Dichloropropene	ND	ug/kg	1.9	8260/5035	07/26/07 02:52	07/19/07	JAH	C
Ethylbenzene	ND	ug/kg	1.9	8260/5035	07/26/07 02:52	07/19/07	JAH	C
2-Hexanone	ND	ug/kg	9.3	8260/5035	07/26/07 02:52	07/19/07	JAH	C
4-Methyl-2-Pentanone(MIBK)	ND	ug/kg	9.3	8260/5035	07/26/07 02:52	07/19/07	JAH	C
Methylene Chloride	ND	ug/kg	1.9	8260/5035	07/26/07 02:52	07/19/07	JAH	C
Styrene	ND	ug/kg	1.9	8260/5035	07/26/07 02:52	07/19/07	JAH	C
1,1,2,2-Tetrachloroethane	ND	ug/kg	1.9	8260/5035	07/26/07 02:52	07/19/07	JAH	C
Tetrachloroethene	ND	ug/kg	1.9	8260/5035	07/26/07 02:52	07/19/07	JAH	C
Toluene	ND	ug/kg	1.9	8260/5035	07/26/07 02:52	07/19/07	JAH	C
Total Xylenes	ND	ug/kg	5.6	8260/5035	07/26/07 02:52	07/19/07	JAH	C
1,1,1-Trichloroethane	ND	ug/kg	1.9	8260/5035	07/26/07 02:52	07/19/07	JAH	C
1,1,2-Trichloroethane	ND	ug/kg	1.9	8260/5035	07/26/07 02:52	07/19/07	JAH	C
Trichloroethene	ND	ug/kg	1.9	8260/5035	07/26/07 02:52	07/19/07	JAH	C
Vinyl Chloride	ND	ug/kg	1.9	8260/5035	07/26/07 02:52	07/19/07	JAH	C
o-Xylene	ND	ug/kg	1.9	8260/5035	07/26/07 02:52	07/19/07	JAH	C
mp-Xylene	ND	ug/kg	3.7	8260/5035	07/26/07 02:52	07/19/07	JAH	C



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Page: 20 Of 25

Project Name: **YORK RDA - NORTHWEST TRIANGLE**
Workorder ID: **Soils-8260B, 8270C, PCBs, Metals**

PO#: 07214
COC Number:

Sample ID: **D-SB6[6]**

Matrix: Solid

Date Collected: 07/19/07 15:25

Collected by: Mr. Dan Buterbaugh

Analysis Parameter	Result	Units	RDL	Method	Completed	Prep Date	By	Cntr
SEMIVOLATILES								
Acenaphthene	ND	ug/kg	86	SW846 8270C	07/28/07 08:31	07/24/07	TTR	E1
Acenaphthylene	ND	ug/kg	86	SW846 8270C	07/28/07 08:31	07/24/07	TTR	E1
Anthracene	ND	ug/kg	86	SW846 8270C	07/28/07 08:31	07/24/07	TTR	E1
Benzo(a)anthracene	ND	ug/kg	86	SW846 8270C	07/28/07 08:31	07/24/07	TTR	E1
Benzo(a)pyrene	ND	ug/kg	86	SW846 8270C	07/28/07 08:31	07/24/07	TTR	E1
Benzo(b)fluoranthene	ND	ug/kg	86	SW846 8270C	07/28/07 08:31	07/24/07	TTR	E1
Benzo(g,h,i)perylene	ND	ug/kg	86	SW846 8270C	07/28/07 08:31	07/24/07	TTR	E1
Benzo(k)fluoranthene	ND	ug/kg	86	SW846 8270C	07/28/07 08:31	07/24/07	TTR	E1
4-Bromophenyl-phenylether	ND	ug/kg	123	SW846 8270C	07/28/07 08:31	07/24/07	TTR	E1
Butylbenzylphthalate	ND	ug/kg	123	SW846 8270C	07/28/07 08:31	07/24/07	TTR	E1
Carbazole	ND	ug/kg	123	SW846 8270C	07/28/07 08:31	07/24/07	TTR	E1
4-Chloro-3-methylphenol	ND	ug/kg	332	SW846 8270C	07/28/07 08:31	07/24/07	TTR	E1
4-Chloroaniline	ND	ug/kg	332	SW846 8270C	07/28/07 08:31	07/24/07	TTR	E1
Bis(2-Chloroethoxy)methane	ND	ug/kg	123	SW846 8270C	07/28/07 08:31	07/24/07	TTR	E1
Bis(2-Chloroethyl)ether	ND	ug/kg	123	SW846 8270C	07/28/07 08:31	07/24/07	TTR	E1
bis(2-Chloroisopropyl)ether	ND	ug/kg	123	SW846 8270C	07/28/07 08:31	07/24/07	TTR	E1
2-Chloronaphthalene	ND	ug/kg	123	SW846 8270C	07/28/07 08:31	07/24/07	TTR	E1
2-Chlorophenol	ND	ug/kg	332	SW846 8270C	07/28/07 08:31	07/24/07	TTR	E1
4-Chlorophenyl-phenylether	ND	ug/kg	123	SW846 8270C	07/28/07 08:31	07/24/07	TTR	E1
Chrysene	ND	ug/kg	86	SW846 8270C	07/28/07 08:31	07/24/07	TTR	E1



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Page: 21 Of 25

Project Name: **YORK RDA - NORTHWEST TRIANGLE**
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PO#: 07214
COC Number:

Sample ID: **D-SB6[6]**

Matrix: Solid

Date Collected: 07/19/07 15:25

Collected by: Mr. Dan Buterbaugh

Analysis Parameter	Result	Units	RDL	Method	Completed	Prep Date	By	Cntr
SEMIVOLATILES (continued)								
mp-Cresol	ND	ug/kg	332	SW846 8270C	07/28/07 08:31	07/24/07	TTR	E1
o-Cresol	ND	ug/kg	332	SW846 8270C	07/28/07 08:31	07/24/07	TTR	E1
Di-n-Butylphthalate	ND	ug/kg	123	SW846 8270C	07/28/07 08:31	07/24/07	TTR	E1
Di-n-Octylphthalate	ND	ug/kg	332	SW846 8270C	07/28/07 08:31	07/24/07	TTR	E1
Dibenzo(a,h)anthracene	ND	ug/kg	86	SW846 8270C	07/28/07 08:31	07/24/07	TTR	E1
Dibenzofuran	ND	ug/kg	123	SW846 8270C	07/28/07 08:31	07/24/07	TTR	E1
1,2-Dichlorobenzene	ND	ug/kg	123	SW846 8270C	07/28/07 08:31	07/24/07	TTR	E1
1,3-Dichlorobenzene	ND	ug/kg	123	SW846 8270C	07/28/07 08:31	07/24/07	TTR	E1
1,4-Dichlorobenzene	ND	ug/kg	123	SW846 8270C	07/28/07 08:31	07/24/07	TTR	E1
3,3-Dichlorobenzidine	ND	ug/kg	123	SW846 8270C	07/28/07 08:31	07/24/07	TTR	E1
2,4-Dichlorophenol	ND	ug/kg	332	SW846 8270C	07/28/07 08:31	07/24/07	TTR	E1
Diethylphthalate	ND	ug/kg	123	SW846 8270C	07/28/07 08:31	07/24/07	TTR	E1
2,4-Dimethylphenol	ND	ug/kg	332	SW846 8270C	07/28/07 08:31	07/24/07	TTR	E1
Dimethylphthalate	ND	ug/kg	123	SW846 8270C	07/28/07 08:31	07/24/07	TTR	E1
2,4-Dinitrophenol	ND	ug/kg	664	SW846 8270C	07/28/07 08:31	07/24/07	TTR	E1
2,4-Dinitrotoluene	ND	ug/kg	123	SW846 8270C	07/28/07 08:31	07/24/07	TTR	E1
2,6-Dinitrotoluene	ND	ug/kg	123	SW846 8270C	07/28/07 08:31	07/24/07	TTR	E1
bis(2-Ethylhexyl)phthalate	ND	ug/kg	123	SW846 8270C	07/28/07 08:31	07/24/07	TTR	E1
Fluoranthene	ND	ug/kg	86	SW846 8270C	07/28/07 08:31	07/24/07	TTR	E1
Fluorene	ND	ug/kg	86	SW846 8270C	07/28/07 08:31	07/24/07	TTR	E1



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Page: 22 Of 25

Project Name: **YORK RDA - NORTHWEST TRIANGLE**
Workorder ID: **Soils-8260B, 8270C, PCBs, Metals**

PO#: 07214
COC Number:

Sample ID: **D-SB6[6]**

Matrix: Solid

Date Collected: 07/19/07 15:25

Collected by: Mr. Dan Buterbaugh

Analysis Parameter	Result	Units	RDL	Method	Completed	Prep Date	By	Cntr
SEMIVOLATILES (continued)								
Hexachlorobenzene	ND	ug/kg	123	SW846 8270C	07/28/07 08:31	07/24/07	TTR	E1
Hexachlorobutadiene	ND	ug/kg	123	SW846 8270C	07/28/07 08:31	07/24/07	TTR	E1
Hexachlorocyclopentadiene	ND	ug/kg	332	SW846 8270C	07/28/07 08:31	07/24/07	TTR	E1
Hexachloroethane	ND	ug/kg	123	SW846 8270C	07/28/07 08:31	07/24/07	TTR	E1
Indeno(1,2,3-cd)pyrene	ND	ug/kg	86	SW846 8270C	07/28/07 08:31	07/24/07	TTR	E1
Isophorone	ND	ug/kg	123	SW846 8270C	07/28/07 08:31	07/24/07	TTR	E1
2-Methyl-4,6-dinitrophenol	ND	ug/kg	332	SW846 8270C	07/28/07 08:31	07/24/07	TTR	E1
2-Methylnaphthalene	ND	ug/kg	86	SW846 8270C	07/28/07 08:31	07/24/07	TTR	E1
Naphthalene	ND	ug/kg	86	SW846 8270C	07/28/07 08:31	07/24/07	TTR	E1
2-Nitroaniline	ND	ug/kg	123	SW846 8270C	07/28/07 08:31	07/24/07	TTR	E1
3-Nitroaniline	ND	ug/kg	332	SW846 8270C	07/28/07 08:31	07/24/07	TTR	E1
4-Nitroaniline	ND	ug/kg	332	SW846 8270C	07/28/07 08:31	07/24/07	TTR	E1
Nitrobenzene	ND	ug/kg	123	SW846 8270C	07/28/07 08:31	07/24/07	TTR	E1
2-Nitrophenol	ND	ug/kg	332	SW846 8270C	07/28/07 08:31	07/24/07	TTR	E1
4-Nitrophenol	ND	ug/kg	664	SW846 8270C	07/28/07 08:31	07/24/07	TTR	E1
N-Nitroso-di-n-propylamine	ND	ug/kg	123	SW846 8270C	07/28/07 08:31	07/24/07	TTR	E1
N-Nitrosodiphenylamine	ND	ug/kg	123	SW846 8270C	07/28/07 08:31	07/24/07	TTR	E1
Pentachlorophenol	ND	ug/kg	664	SW846 8270C	07/28/07 08:31	07/24/07	TTR	E1
Phenanthrene	ND	ug/kg	86	SW846 8270C	07/28/07 08:31	07/24/07	TTR	E1
Phenol	ND	ug/kg	332	SW846 8270C	07/28/07 08:31	07/24/07	TTR	E1



Certificate of Analysis

August 2, 2007

Mr. Dan Buterbaugh
ARM Group Inc.
1129 W. Governor Road
Hershey, PA 17033

Lab ID #: **9694438003**
Received: 07/19/07 16:32
Discard: 08/16/07

Page: 23 Of 25

Project Name: **YORK RDA - NORTHWEST TRIANGLE**
Workorder ID: **Soils-8260B, 8270C, PCBs, Metals**

PO#: 07214
COC Number:

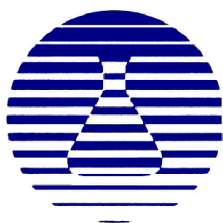
Sample ID: **D-SB6[6]**

Matrix: Solid

Date Collected: 07/19/07 15:25

Collected by: Mr. Dan Buterbaugh

Analysis Parameter	Result	Units	RDL	Method	Completed	Prep Date	By	Cntr
SEMIVOLATILES (continued)								
Pyrene	ND	ug/kg	86	SW846 8270C	07/28/07 08:31	07/24/07	TTR	E1
1,2,4-Trichlorobenzene	ND	ug/kg	123	SW846 8270C	07/28/07 08:31	07/24/07	TTR	E1
2,4,5-Trichlorophenol	ND	ug/kg	332	SW846 8270C	07/28/07 08:31	07/24/07	TTR	E1
2,4,6-Trichlorophenol	ND	ug/kg	332	SW846 8270C	07/28/07 08:31	07/24/07	TTR	E1
PCB'S								
Aroclor-1016	ND	mg/kg	0.041	SW846 8082	07/27/07 04:44	07/25/07	JJH	E2
Aroclor-1221	ND	mg/kg	0.041	SW846 8082	07/27/07 04:44	07/25/07	JJH	E2
Aroclor-1232	ND	mg/kg	0.041	SW846 8082	07/27/07 04:44	07/25/07	JJH	E2
Aroclor-1242	ND	mg/kg	0.041	SW846 8082	07/27/07 04:44	07/25/07	JJH	E2
Aroclor-1248	ND	mg/kg	0.041	SW846 8082	07/27/07 04:44	07/25/07	JJH	E2
Aroclor-1254	ND	mg/kg	0.041	SW846 8082	07/27/07 04:44	07/25/07	JJH	E2
Aroclor-1260	ND	mg/kg	0.041	SW846 8082	07/27/07 04:44	07/25/07	JJH	E2
WET CHEMISTRY								
Moisture	18.9	%	0.1	SM20-2540 G	07/20/07 06:00	07/20/07	KMW	E
Total Solids	81.1	%	0.1	SM20-2540 G	07/20/07 06:00	07/20/07	KMW	E



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Lab ID #: **9694438003**
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Page: 24 Of 25

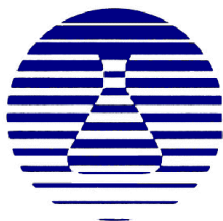
Project Name: **YORK RDA - NORTHWEST TRIANGLE**
Workorder ID: **Soils-8260B, 8270C, PCBs, Metals**

PO#: 07214
COC Number:

Sample ID: **D-SB6[6]**
Date Collected: 07/19/07 15:25

Matrix: Solid
Collected by: Mr. Dan Buterbaugh

Analysis Parameter	Result	Units	RDL	Method	Completed	Prep Date	By	Cntr
METALS								
Arsenic, Total	5	mg/kg	2	SW846 6010B	08/01/07 02:12	07/27/07	JWK	E3
Barium, Total	151	mg/kg	0.9	SW846 6010B	07/31/07 18:00	07/27/07	JWK	E3
Cadmium, Total	0.8	mg/kg	0.5	SW846 6010B	07/31/07 18:00	07/27/07	JWK	E3
Chromium, Total	19.6	mg/kg	0.9	SW846 6010B	07/31/07 18:00	07/27/07	JWK	E3
Lead, Total	36	mg/kg	0.9	SW846 6010B	07/31/07 18:00	07/27/07	JWK	E3
Mercury, Total	0.24	mg/kg	0.21	SW846 7471B	07/31/07 09:38	07/30/07	CMD	E4
Selenium, Total	ND	mg/kg	5	SW846 6010B	08/01/07 20:26	07/27/07	JVU	E3
Silver, Total	ND	mg/kg	0.5	SW846 6010B	07/31/07 18:00	07/27/07	JWK	E3
Surrogates								
	Result	Units	Recovery	Limits				
2,4,6-Tribromophenol	1590	ug/kg	48.0%	(24 - 130)				
1,2-Dichloroethane-d4	19.9	ug/kg	88.0%	(56 - 124)				
Dibromofluoromethane	19	ug/kg	84.0%	(62 - 123)				
Toluene-d8	20.4	ug/kg	90.0%	(59 - 131)				
Decachlorobiphenyl	.06	mg/kg	73.0%	(30 - 150)				
2-Fluorobiphenyl	705	ug/kg	42.0%	(40 - 113)				
2-Fluorophenol	1340	ug/kg	40.0%	(25 - 110)				
Nitrobenzene-d5	767	ug/kg	46.0%	(36 - 113)				
Phenol-d5	1470	ug/kg	44.0%	(28 - 111)				
4-Bromofluorobenzene	19.5	ug/kg	86.0%	(51 - 128)				



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August 2, 2007

Mr. Dan Buterbaugh
ARM Group Inc.
1129 W. Governor Road
Hershey, PA 17033

Lab ID #: **9694438003**
Received: 07/19/07 16:32
Discard: 08/16/07

Page: 25 Of 25

Project Name: **YORK RDA - NORTHWEST TRIANGLE**
Workorder ID: **Soils-8260B, 8270C, PCBs, Metals**

PO#: 07214
COC Number:

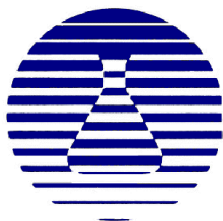
Sample ID: **D-SB6[6]**
Date Collected: 07/19/07 15:25

Matrix: Solid
Collected by: Mr. Dan Buterbaugh

Surrogates (continued)	Result	Units	Recovery	Limits
Tetrachloro-m-xylene	.06	mg/kg	72.0%	(30 - 136)
Terphenyl-d14	1000	ug/kg	60.0%	(35 - 135)

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

Raymond J. Martrano
Laboratory Manager



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August 2, 2007

Mr. Dan Buterbaugh
ARM Group Inc.
1129 W. Governor Road
Hershey, PA 17033

Lab ID#: **9694772**

Page: 1 Of 29

Project Name: **YORK RDA - NORTHWEST TRIANGLE**
Workorder ID: **Soils-8260B, 8270C, PCBs, Metals**

PO#: 07214

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Unless otherwise noted, all quantitative results for soils are reported on a dry weight basis. Samples collected by ALSI personnel are done so in accordance with the procedures set forth in the ALSI Field Sampling Plan.

A result of ND indicates that the analyte was Not Detected at the Reporting Detection Limit (RDL). The RDL, by default, is equivalent to the Practical Quantitation Limit (PQL) or may be equivalent to the Method Detection Limit (MDL), if specifically requested by the customer.

Qualifier Flags - These flags may follow individual results for a specific analyte

U - Indicates that the analyte was not detected

J - Indicates an estimated value between the MDL and PQL

Note: This cover letter and the attached Chain-of-Custody document is included as part of the Analytical Report and must be retained as a permanent record thereof.

Raymond J. Martrano
Laboratory Manager



Certificate of Analysis

August 2, 2007

Mr. Dan Buterbaugh
ARM Group Inc.
1129 W. Governor Road
Hershey, PA 17033

Lab ID #: **9694772001**
Received: 07/20/07 14:55
Discard: 08/16/07

Page: 2 Of 29

Project Name: **YORK RDA - NORTHWEST TRIANGLE**
Workorder ID: **Soils-8260B, 8270C, PCBs, Metals**

PO#: 07214
COC Number:

Sample ID: **A3-SS1 [1.0]**
Date Collected: 07/20/07 09:05

Matrix: Solid
Collected by: Collected by Customer

Analysis Parameter	Result	Units	RDL	Method	Completed	Prep Date	By	Cntr
VOLATILE ORGANICS								
Acetone	ND	ug/kg	26.4	8260/5035	07/25/07 00:11	07/20/07	ECR	B
Benzene	ND	ug/kg	2.1	8260/5035	07/25/07 00:11	07/20/07	ECR	B
Bromochloromethane	ND	ug/kg	2.1	8260/5035	07/25/07 00:11	07/20/07	ECR	B
Bromodichloromethane	ND	ug/kg	2.1	8260/5035	07/25/07 00:11	07/20/07	ECR	B
Bromoform	ND	ug/kg	2.1	8260/5035	07/25/07 00:11	07/20/07	ECR	B
Bromomethane	ND	ug/kg	4.2	8260/5035	07/25/07 00:11	07/20/07	ECR	B
2-Butanone	ND	ug/kg	10.5	8260/5035	07/25/07 00:11	07/20/07	ECR	B
Carbon Disulfide	ND	ug/kg	2.1	8260/5035	07/25/07 00:11	07/20/07	ECR	B
Carbon Tetrachloride	ND	ug/kg	2.1	8260/5035	07/25/07 00:11	07/20/07	ECR	B
Chlorobenzene	ND	ug/kg	2.1	8260/5035	07/25/07 00:11	07/20/07	ECR	B
Chlorodibromomethane	ND	ug/kg	2.1	8260/5035	07/25/07 00:11	07/20/07	ECR	B
Chloroethane	ND	ug/kg	2.1	8260/5035	07/25/07 00:11	07/20/07	ECR	B
Chloroform	ND	ug/kg	2.1	8260/5035	07/25/07 00:11	07/20/07	ECR	B
Chloromethane	ND	ug/kg	2.1	8260/5035	07/25/07 00:11	07/20/07	ECR	B
1,2-Dibromo-3-chloropropane	ND	ug/kg	4.2	8260/5035	07/25/07 00:11	07/20/07	ECR	B
1,2-Dibromoethane	ND	ug/kg	2.1	8260/5035	07/25/07 00:11	07/20/07	ECR	B
1,1-Dichloroethane	ND	ug/kg	2.1	8260/5035	07/25/07 00:11	07/20/07	ECR	B
1,2-Dichloroethane	ND	ug/kg	2.1	8260/5035	07/25/07 00:11	07/20/07	ECR	B
1,1-Dichloroethene	ND	ug/kg	2.1	8260/5035	07/25/07 00:11	07/20/07	ECR	B
cis-1,2-Dichloroethene	ND	ug/kg	2.1	8260/5035	07/25/07 00:11	07/20/07	ECR	B



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Lab ID #: **9694772001**
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Page: 3 Of 29

Project Name: **YORK RDA - NORTHWEST TRIANGLE**
Workorder ID: **Soils-8260B, 8270C, PCBs, Metals**

PO#: 07214
COC Number:

Sample ID: **A3-SS1 [1.0]**
Date Collected: 07/20/07 09:05

Matrix: Solid
Collected by: Collected by Customer

Analysis Parameter	Result	Units	RDL	Method	Completed	Prep Date	By	Cntr
VOLATILE ORGANICS (continued)								
trans-1,2-Dichloroethene	ND	ug/kg	2.1	8260/5035	07/25/07 00:11	07/20/07	ECR	B
1,2-Dichloropropane	ND	ug/kg	2.1	8260/5035	07/25/07 00:11	07/20/07	ECR	B
cis-1,3-Dichloropropene	ND	ug/kg	2.1	8260/5035	07/25/07 00:11	07/20/07	ECR	B
trans-1,3-Dichloropropene	ND	ug/kg	2.1	8260/5035	07/25/07 00:11	07/20/07	ECR	B
Ethylbenzene	ND	ug/kg	2.1	8260/5035	07/25/07 00:11	07/20/07	ECR	B
2-Hexanone	ND	ug/kg	10.5	8260/5035	07/25/07 00:11	07/20/07	ECR	B
4-Methyl-2-Pentanone(MIBK)	ND	ug/kg	10.5	8260/5035	07/25/07 00:11	07/20/07	ECR	B
Methylene Chloride	ND	ug/kg	2.1	8260/5035	07/25/07 00:11	07/20/07	ECR	B
Styrene	ND	ug/kg	2.1	8260/5035	07/25/07 00:11	07/20/07	ECR	B
1,1,2,2-Tetrachloroethane	ND	ug/kg	2.1	8260/5035	07/25/07 00:11	07/20/07	ECR	B
Tetrachloroethene	ND	ug/kg	2.1	8260/5035	07/25/07 00:11	07/20/07	ECR	B
Toluene	ND	ug/kg	2.1	8260/5035	07/25/07 00:11	07/20/07	ECR	B
Total Xylenes	ND	ug/kg	6.3	8260/5035	07/25/07 00:11	07/20/07	ECR	B
1,1,1-Trichloroethane	ND	ug/kg	2.1	8260/5035	07/25/07 00:11	07/20/07	ECR	B
1,1,2-Trichloroethane	ND	ug/kg	2.1	8260/5035	07/25/07 00:11	07/20/07	ECR	B
Trichloroethene	ND	ug/kg	2.1	8260/5035	07/25/07 00:11	07/20/07	ECR	B
Vinyl Chloride	ND	ug/kg	2.1	8260/5035	07/25/07 00:11	07/20/07	ECR	B
o-Xylene	ND	ug/kg	2.1	8260/5035	07/25/07 00:11	07/20/07	ECR	B
mp-Xylene	ND	ug/kg	4.2	8260/5035	07/25/07 00:11	07/20/07	ECR	B



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Lab ID #: **9694772001**
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Page: 4 Of 29

Project Name: **YORK RDA - NORTHWEST TRIANGLE**
Workorder ID: **Soils-8260B, 8270C, PCBs, Metals**

PO#: 07214
COC Number:

Sample ID: **A3-SS1 [1.0]** Matrix: Solid
Date Collected: 07/20/07 09:05 Collected by: Collected by Customer

Analysis Parameter	Result	Units	RDL	Method	Completed	Prep Date	By	Cntr
SEMIVOLATILES								
Acenaphthene	ND	ug/kg	74	SW846 8270C	07/31/07 21:35	07/24/07	DRS	E1
Acenaphthylene	75	ug/kg	74	SW846 8270C	07/31/07 21:35	07/24/07	DRS	E1
Anthracene	153	ug/kg	74	SW846 8270C	07/31/07 21:35	07/24/07	DRS	E1
Benzo(a)anthracene	654	ug/kg	74	SW846 8270C	07/31/07 21:35	07/24/07	DRS	E1
Benzo(a)pyrene	620	ug/kg	74	SW846 8270C	07/31/07 21:35	07/24/07	DRS	E1
Benzo(b)fluoranthene	826	ug/kg	74	SW846 8270C	07/31/07 21:35	07/24/07	DRS	E1
Benzo(g,h,i)perylene	ND	ug/kg	74	SW846 8270C	07/31/07 21:35	07/24/07	DRS	E1
Benzo(k)fluoranthene	918	ug/kg	74	SW846 8270C	07/31/07 21:35	07/24/07	DRS	E1
4-Bromophenyl-phenylether	ND	ug/kg	105	SW846 8270C	07/31/07 21:35	07/24/07	DRS	E1
Butylbenzylphthalate	ND	ug/kg	105	SW846 8270C	07/31/07 21:35	07/24/07	DRS	E1
Carbazole	ND	ug/kg	105	SW846 8270C	07/31/07 21:35	07/24/07	DRS	E1
4-Chloro-3-methylphenol	ND	ug/kg	284	SW846 8270C	07/31/07 21:35	07/24/07	DRS	E1
4-Chloroaniline	ND	ug/kg	284	SW846 8270C	07/31/07 21:35	07/24/07	DRS	E1
Bis(2-Chloroethoxy)methane	ND	ug/kg	105	SW846 8270C	07/31/07 21:35	07/24/07	DRS	E1
Bis(2-Chloroethyl)ether	ND	ug/kg	105	SW846 8270C	07/31/07 21:35	07/24/07	DRS	E1
bis(2-Chloroisopropyl)ether	ND	ug/kg	105	SW846 8270C	07/31/07 21:35	07/24/07	DRS	E1
2-Chloronaphthalene	ND	ug/kg	105	SW846 8270C	07/31/07 21:35	07/24/07	DRS	E1
2-Chlorophenol	ND	ug/kg	284	SW846 8270C	07/31/07 21:35	07/24/07	DRS	E1
4-Chlorophenyl-phenylether	ND	ug/kg	105	SW846 8270C	07/31/07 21:35	07/24/07	DRS	E1
Chrysene	720	ug/kg	74	SW846 8270C	07/31/07 21:35	07/24/07	DRS	E1



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Lab ID #: **9694772001**
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Discard: 08/16/07

Page: 5 Of 29

Project Name: **YORK RDA - NORTHWEST TRIANGLE**
Workorder ID: **Soils-8260B, 8270C, PCBs, Metals**

PO#: 07214
COC Number:

Sample ID: **A3-SS1 [1.0]** Matrix: Solid
Date Collected: 07/20/07 09:05 Collected by: Collected by Customer

Analysis Parameter	Result	Units	RDL	Method	Completed	Prep Date	By	Cntr
SEMIVOLATILES (continued)								
mp-Cresol	ND	ug/kg	284	SW846 8270C	07/31/07 21:35	07/24/07	DRS	E1
o-Cresol	ND	ug/kg	284	SW846 8270C	07/31/07 21:35	07/24/07	DRS	E1
Di-n-Butylphthalate	ND	ug/kg	105	SW846 8270C	07/31/07 21:35	07/24/07	DRS	E1
Di-n-Octylphthalate	ND	ug/kg	284	SW846 8270C	07/31/07 21:35	07/24/07	DRS	E1
Dibenzo(a,h)anthracene	ND	ug/kg	74	SW846 8270C	07/31/07 21:35	07/24/07	DRS	E1
Dibenzofuran	ND	ug/kg	105	SW846 8270C	07/31/07 21:35	07/24/07	DRS	E1
1,2-Dichlorobenzene	ND	ug/kg	105	SW846 8270C	07/31/07 21:35	07/24/07	DRS	E1
1,3-Dichlorobenzene	ND	ug/kg	105	SW846 8270C	07/31/07 21:35	07/24/07	DRS	E1
1,4-Dichlorobenzene	ND	ug/kg	105	SW846 8270C	07/31/07 21:35	07/24/07	DRS	E1
3,3-Dichlorobenzidine	ND	ug/kg	105	SW846 8270C	07/31/07 21:35	07/24/07	DRS	E1
2,4-Dichlorophenol	ND	ug/kg	284	SW846 8270C	07/31/07 21:35	07/24/07	DRS	E1
Diethylphthalate	ND	ug/kg	105	SW846 8270C	07/31/07 21:35	07/24/07	DRS	E1
2,4-Dimethylphenol	ND	ug/kg	284	SW846 8270C	07/31/07 21:35	07/24/07	DRS	E1
Dimethylphthalate	ND	ug/kg	105	SW846 8270C	07/31/07 21:35	07/24/07	DRS	E1
2,4-Dinitrophenol	ND	ug/kg	569	SW846 8270C	07/31/07 21:35	07/24/07	DRS	E1
2,4-Dinitrotoluene	ND	ug/kg	105	SW846 8270C	07/31/07 21:35	07/24/07	DRS	E1
2,6-Dinitrotoluene	ND	ug/kg	105	SW846 8270C	07/31/07 21:35	07/24/07	DRS	E1
bis(2-Ethylhexyl)phthalate	ND	ug/kg	105	SW846 8270C	07/31/07 21:35	07/24/07	DRS	E1
Fluoranthene	1590	ug/kg	74	SW846 8270C	07/31/07 21:35	07/24/07	DRS	E1
Fluorene	ND	ug/kg	74	SW846 8270C	07/31/07 21:35	07/24/07	DRS	E1



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Hershey, PA 17033

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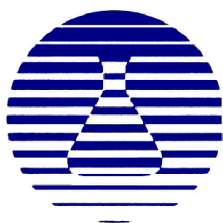
Page: 6 Of 29

Project Name: **YORK RDA - NORTHWEST TRIANGLE**
Workorder ID: **Soils-8260B, 8270C, PCBs, Metals**

PO#: 07214
COC Number:

Sample ID: **A3-SS1 [1.0]** Matrix: Solid
Date Collected: 07/20/07 09:05 Collected by: Collected by Customer

Analysis Parameter	Result	Units	RDL	Method	Completed	Prep Date	By	Cntr
SEMIVOLATILES (continued)								
Hexachlorobenzene	ND	ug/kg	105	SW846 8270C	07/31/07 21:35	07/24/07	DRS	E1
Hexachlorobutadiene	ND	ug/kg	105	SW846 8270C	07/31/07 21:35	07/24/07	DRS	E1
Hexachlorocyclopentadiene	ND	ug/kg	284	SW846 8270C	07/31/07 21:35	07/24/07	DRS	E1
Hexachloroethane	ND	ug/kg	105	SW846 8270C	07/31/07 21:35	07/24/07	DRS	E1
Indeno(1,2,3-cd)pyrene	93	ug/kg	74	SW846 8270C	07/31/07 21:35	07/24/07	DRS	E1
Isophorone	ND	ug/kg	105	SW846 8270C	07/31/07 21:35	07/24/07	DRS	E1
2-Methyl-4,6-dinitrophenol	ND	ug/kg	284	SW846 8270C	07/31/07 21:35	07/24/07	DRS	E1
2-Methylnaphthalene	ND	ug/kg	74	SW846 8270C	07/31/07 21:35	07/24/07	DRS	E1
Naphthalene	ND	ug/kg	74	SW846 8270C	07/31/07 21:35	07/24/07	DRS	E1
2-Nitroaniline	ND	ug/kg	105	SW846 8270C	07/31/07 21:35	07/24/07	DRS	E1
3-Nitroaniline	ND	ug/kg	284	SW846 8270C	07/31/07 21:35	07/24/07	DRS	E1
4-Nitroaniline	ND	ug/kg	284	SW846 8270C	07/31/07 21:35	07/24/07	DRS	E1
Nitrobenzene	ND	ug/kg	105	SW846 8270C	07/31/07 21:35	07/24/07	DRS	E1
2-Nitrophenol	ND	ug/kg	284	SW846 8270C	07/31/07 21:35	07/24/07	DRS	E1
4-Nitrophenol	ND	ug/kg	569	SW846 8270C	07/31/07 21:35	07/24/07	DRS	E1
N-Nitroso-di-n-propylamine	ND	ug/kg	105	SW846 8270C	07/31/07 21:35	07/24/07	DRS	E1
N-Nitrosodiphenylamine	ND	ug/kg	105	SW846 8270C	07/31/07 21:35	07/24/07	DRS	E1
Pentachlorophenol	ND	ug/kg	569	SW846 8270C	07/31/07 21:35	07/24/07	DRS	E1
Phenanthrene	819	ug/kg	74	SW846 8270C	07/31/07 21:35	07/24/07	DRS	E1
Phenol	ND	ug/kg	284	SW846 8270C	07/31/07 21:35	07/24/07	DRS	E1



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Page: 7 Of 29

Project Name: **YORK RDA - NORTHWEST TRIANGLE**
Workorder ID: **Soils-8260B, 8270C, PCBs, Metals**

PO#: 07214
COC Number:

Sample ID: **A3-SS1 [1.0]**
Date Collected: 07/20/07 09:05

Matrix: Solid
Collected by: Collected by Customer

Analysis Parameter	Result	Units	RDL	Method	Completed	Prep Date	By	Cntr
SEMIVOLATILES (continued)								
Pyrene	1260	ug/kg	74	SW846 8270C	07/31/07 21:35	07/24/07	DRS	E1
1,2,4-Trichlorobenzene	ND	ug/kg	105	SW846 8270C	07/31/07 21:35	07/24/07	DRS	E1
2,4,5-Trichlorophenol	ND	ug/kg	284	SW846 8270C	07/31/07 21:35	07/24/07	DRS	E1
2,4,6-Trichlorophenol	ND	ug/kg	284	SW846 8270C	07/31/07 21:35	07/24/07	DRS	E1
PCB'S								
Aroclor-1016	ND	mg/kg	0.036	SW846 8082	07/27/07 10:48	07/25/07	JJH	E2
Aroclor-1221	ND	mg/kg	0.036	SW846 8082	07/27/07 10:48	07/25/07	JJH	E2
Aroclor-1232	ND	mg/kg	0.036	SW846 8082	07/27/07 10:48	07/25/07	JJH	E2
Aroclor-1242	ND	mg/kg	0.036	SW846 8082	07/27/07 10:48	07/25/07	JJH	E2
Aroclor-1248	ND	mg/kg	0.036	SW846 8082	07/27/07 10:48	07/25/07	JJH	E2
Aroclor-1254	ND	mg/kg	0.036	SW846 8082	07/27/07 10:48	07/25/07	JJH	E2
Aroclor-1260	ND	mg/kg	0.036	SW846 8082	07/27/07 10:48	07/25/07	JJH	E2
WET CHEMISTRY								
Moisture	7.5	%	0.1	SM20-2540 G	07/22/07 16:29	07/22/07	NMM	E
Total Solids	92.5	%	0.1	SM20-2540 G	07/22/07 16:29	07/22/07	NMM	E



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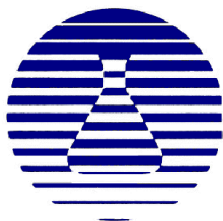
Page: 8 Of 29

Project Name: **YORK RDA - NORTHWEST TRIANGLE**
Workorder ID: **Soils-8260B, 8270C, PCBs, Metals**

PO#: 07214
COC Number:

Sample ID: A3-SS1 [1.0]	Matrix: Solid
Date Collected: 07/20/07 09:05	Collected by: Collected by Customer

Analysis Parameter	Result	Units	RDL	Method	Completed	Prep Date	By	Cntr
METALS								
Arsenic, Total	ND	mg/kg	5	SW846 6010B	08/01/07 09:25	07/30/07	TED	E3
Barium, Total	58	mg/kg	1	SW846 6010B	08/01/07 05:07	07/30/07	TED	E3
Cadmium, Total	0.9	mg/kg	0.5	SW846 6010B	08/01/07 05:07	07/30/07	TED	E3
Chromium, Total	6.5	mg/kg	1	SW846 6010B	08/01/07 05:07	07/30/07	TED	E3
Lead, Total	14	mg/kg	1	SW846 6010B	08/01/07 05:07	07/30/07	TED	E3
Mercury, Total	ND	mg/kg	0.18	SW846 7471B	07/31/07 09:46	07/30/07	CMD	E4
Selenium, Total	ND	mg/kg	5	SW846 6010B	08/01/07 21:21	07/30/07	JVU	E3
Silver, Total	ND	mg/kg	0.5	SW846 6010B	08/01/07 05:07	07/30/07	TED	E3
Surrogates								
	Result	Units	Recovery	Limits				
2,4,6-Tribromophenol	2240	ug/kg	69.0%	(24 - 130)				
1,2-Dichloroethane-d4	25.8	ug/kg	88.0%	(56 - 124)				
Dibromofluoromethane	24.7	ug/kg	85.0%	(62 - 123)				
Toluene-d8	25.6	ug/kg	87.0%	(59 - 131)				
Decachlorobiphenyl	.057	mg/kg	68.0%	(30 - 150)				
2-Fluorobiphenyl	1000	ug/kg	62.0%	(40 - 113)				
2-Fluorophenol	1810	ug/kg	56.0%	(25 - 110)				
Nitrobenzene-d5	952	ug/kg	59.0%	(36 - 113)				
Phenol-d5	2020	ug/kg	62.0%	(28 - 111)				
4-Bromofluorobenzene	24.9	ug/kg	85.0%	(51 - 128)				



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Page: 9 Of 29

Project Name: **YORK RDA - NORTHWEST TRIANGLE**
Workorder ID: **Soils-8260B, 8270C, PCBs, Metals**

PO#: 07214
COC Number:

Sample ID: **A3-SS1 [1.0]**
Date Collected: 07/20/07 09:05

Matrix: Solid
Collected by: Collected by Customer

Surrogates (continued)	Result	Units	Recovery	Limits
Tetrachloro-m-xylene	.065	mg/kg	78.0%	(30 - 136)
Terphenyl-d14	1080	ug/kg	67.0%	(35 - 135)

Comments:

One or more of the GCMS semi-volatile internal standards were recovered at <50%. The sample was reanalyzed with similar results indicating a sample matrix interference.

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

Raymond J. Martrano
Laboratory Manager



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Page: 10 Of 29

Project Name: **YORK RDA - NORTHWEST TRIANGLE**
Workorder ID: **Soils-8260B, 8270C, PCBs, Metals**

PO#: 07214
COC Number:

Sample ID: **A3-SS2 [1.0]**
Date Collected: 07/20/07 09:20

Matrix: Solid
Collected by: Collected by Customer

Analysis Parameter	Result	Units	RDL	Method	Completed	Prep Date	By	Cntr
VOLATILE ORGANICS								
Acetone	ND	ug/kg	20.1	8260/5035	07/25/07 00:41	07/20/07	ECR	B
Benzene	ND	ug/kg	1.6	8260/5035	07/25/07 00:41	07/20/07	ECR	B
Bromochloromethane	ND	ug/kg	1.6	8260/5035	07/25/07 00:41	07/20/07	ECR	B
Bromodichloromethane	ND	ug/kg	1.6	8260/5035	07/25/07 00:41	07/20/07	ECR	B
Bromoform	ND	ug/kg	1.6	8260/5035	07/25/07 00:41	07/20/07	ECR	B
Bromomethane	ND	ug/kg	3.2	8260/5035	07/25/07 00:41	07/20/07	ECR	B
2-Butanone	ND	ug/kg	8.0	8260/5035	07/25/07 00:41	07/20/07	ECR	B
Carbon Disulfide	ND	ug/kg	1.6	8260/5035	07/25/07 00:41	07/20/07	ECR	B
Carbon Tetrachloride	ND	ug/kg	1.6	8260/5035	07/25/07 00:41	07/20/07	ECR	B
Chlorobenzene	ND	ug/kg	1.6	8260/5035	07/25/07 00:41	07/20/07	ECR	B
Chlorodibromomethane	ND	ug/kg	1.6	8260/5035	07/25/07 00:41	07/20/07	ECR	B
Chloroethane	ND	ug/kg	1.6	8260/5035	07/25/07 00:41	07/20/07	ECR	B
Chloroform	ND	ug/kg	1.6	8260/5035	07/25/07 00:41	07/20/07	ECR	B
Chloromethane	ND	ug/kg	1.6	8260/5035	07/25/07 00:41	07/20/07	ECR	B
1,2-Dibromo-3-chloropropane	ND	ug/kg	3.2	8260/5035	07/25/07 00:41	07/20/07	ECR	B
1,2-Dibromoethane	ND	ug/kg	1.6	8260/5035	07/25/07 00:41	07/20/07	ECR	B
1,1-Dichloroethane	ND	ug/kg	1.6	8260/5035	07/25/07 00:41	07/20/07	ECR	B
1,2-Dichloroethane	ND	ug/kg	1.6	8260/5035	07/25/07 00:41	07/20/07	ECR	B
1,1-Dichloroethene	ND	ug/kg	1.6	8260/5035	07/25/07 00:41	07/20/07	ECR	B
cis-1,2-Dichloroethene	ND	ug/kg	1.6	8260/5035	07/25/07 00:41	07/20/07	ECR	B



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Page: 11 Of 29

Project Name: **YORK RDA - NORTHWEST TRIANGLE**
Workorder ID: **Soils-8260B, 8270C, PCBs, Metals**

PO#: 07214
COC Number:

Sample ID: **A3-SS2 [1.0]**
Date Collected: 07/20/07 09:20

Matrix: Solid
Collected by: Collected by Customer

Analysis Parameter	Result	Units	RDL	Method	Completed	Prep Date	By	Cntr
VOLATILE ORGANICS (continued)								
trans-1,2-Dichloroethene	ND	ug/kg	1.6	8260/5035	07/25/07 00:41	07/20/07	ECR	B
1,2-Dichloropropane	ND	ug/kg	1.6	8260/5035	07/25/07 00:41	07/20/07	ECR	B
cis-1,3-Dichloropropene	ND	ug/kg	1.6	8260/5035	07/25/07 00:41	07/20/07	ECR	B
trans-1,3-Dichloropropene	ND	ug/kg	1.6	8260/5035	07/25/07 00:41	07/20/07	ECR	B
Ethylbenzene	ND	ug/kg	1.6	8260/5035	07/25/07 00:41	07/20/07	ECR	B
2-Hexanone	ND	ug/kg	8.0	8260/5035	07/25/07 00:41	07/20/07	ECR	B
4-Methyl-2-Pentanone(MIBK)	ND	ug/kg	8.0	8260/5035	07/25/07 00:41	07/20/07	ECR	B
Methylene Chloride	ND	ug/kg	1.6	8260/5035	07/25/07 00:41	07/20/07	ECR	B
Styrene	ND	ug/kg	1.6	8260/5035	07/25/07 00:41	07/20/07	ECR	B
1,1,2,2-Tetrachloroethane	ND	ug/kg	1.6	8260/5035	07/25/07 00:41	07/20/07	ECR	B
Tetrachloroethene	ND	ug/kg	1.6	8260/5035	07/25/07 00:41	07/20/07	ECR	B
Toluene	ND	ug/kg	1.6	8260/5035	07/25/07 00:41	07/20/07	ECR	B
Total Xylenes	ND	ug/kg	4.8	8260/5035	07/25/07 00:41	07/20/07	ECR	B
1,1,1-Trichloroethane	ND	ug/kg	1.6	8260/5035	07/25/07 00:41	07/20/07	ECR	B
1,1,2-Trichloroethane	ND	ug/kg	1.6	8260/5035	07/25/07 00:41	07/20/07	ECR	B
Trichloroethene	ND	ug/kg	1.6	8260/5035	07/25/07 00:41	07/20/07	ECR	B
Vinyl Chloride	ND	ug/kg	1.6	8260/5035	07/25/07 00:41	07/20/07	ECR	B
o-Xylene	ND	ug/kg	1.6	8260/5035	07/25/07 00:41	07/20/07	ECR	B
mp-Xylene	ND	ug/kg	3.2	8260/5035	07/25/07 00:41	07/20/07	ECR	B



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Page: 12 Of 29

Project Name: **YORK RDA - NORTHWEST TRIANGLE**
Workorder ID: **Soils-8260B, 8270C, PCBs, Metals**

PO#: 07214
COC Number:

Sample ID: **A3-SS2 [1.0]**
Date Collected: 07/20/07 09:20

Matrix: Solid
Collected by: Collected by Customer

Analysis Parameter	Result	Units	RDL	Method	Completed	Prep Date	By	Cntr
SEMIVOLATILES								
Acenaphthene	228	ug/kg	141	SW846 8270C	07/31/07 20:45	07/24/07	DRS	E1
Acenaphthylene	251	ug/kg	141	SW846 8270C	07/31/07 20:45	07/24/07	DRS	E1
Anthracene	772	ug/kg	141	SW846 8270C	07/31/07 20:45	07/24/07	DRS	E1
Benzo(a)anthracene	2470	ug/kg	141	SW846 8270C	07/31/07 20:45	07/24/07	DRS	E1
Benzo(a)pyrene	2650	ug/kg	141	SW846 8270C	07/31/07 20:45	07/24/07	DRS	E1
Benzo(b)fluoranthene	3060	ug/kg	141	SW846 8270C	07/31/07 20:45	07/24/07	DRS	E1
Benzo(g,h,i)perylene	309	ug/kg	141	SW846 8270C	07/31/07 20:45	07/24/07	DRS	E1
Benzo(k)fluoranthene	2960	ug/kg	141	SW846 8270C	07/31/07 20:45	07/24/07	DRS	E1
4-Bromophenyl-phenylether	ND	ug/kg	202	SW846 8270C	07/31/07 20:45	07/24/07	DRS	E1
Butylbenzylphthalate	ND	ug/kg	202	SW846 8270C	07/31/07 20:45	07/24/07	DRS	E1
Carbazole	344	ug/kg	202	SW846 8270C	07/31/07 20:45	07/24/07	DRS	E1
4-Chloro-3-methylphenol	ND	ug/kg	545	SW846 8270C	07/31/07 20:45	07/24/07	DRS	E1
4-Chloroaniline	ND	ug/kg	545	SW846 8270C	07/31/07 20:45	07/24/07	DRS	E1
Bis(2-Chloroethoxy)methane	ND	ug/kg	202	SW846 8270C	07/31/07 20:45	07/24/07	DRS	E1
Bis(2-Chloroethyl)ether	ND	ug/kg	202	SW846 8270C	07/31/07 20:45	07/24/07	DRS	E1
bis(2-Chloroisopropyl)ether	ND	ug/kg	202	SW846 8270C	07/31/07 20:45	07/24/07	DRS	E1
2-Chloronaphthalene	ND	ug/kg	202	SW846 8270C	07/31/07 20:45	07/24/07	DRS	E1
2-Chlorophenol	ND	ug/kg	545	SW846 8270C	07/31/07 20:45	07/24/07	DRS	E1
4-Chlorophenyl-phenylether	ND	ug/kg	202	SW846 8270C	07/31/07 20:45	07/24/07	DRS	E1
Chrysene	2780	ug/kg	141	SW846 8270C	07/31/07 20:45	07/24/07	DRS	E1



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Page: 13 Of 29

Project Name: **YORK RDA - NORTHWEST TRIANGLE**
Workorder ID: **Soils-8260B, 8270C, PCBs, Metals**

PO#: 07214
COC Number:

Sample ID: **A3-SS2 [1.0]** Matrix: Solid
Date Collected: 07/20/07 09:20 Collected by: Collected by Customer

Analysis Parameter	Result	Units	RDL	Method	Completed	Prep Date	By	Cntr
SEMIVOLATILES (continued)								
mp-Cresol	ND	ug/kg	545	SW846 8270C	07/31/07 20:45	07/24/07	DRS	E1
o-Cresol	ND	ug/kg	545	SW846 8270C	07/31/07 20:45	07/24/07	DRS	E1
Di-n-Butylphthalate	ND	ug/kg	202	SW846 8270C	07/31/07 20:45	07/24/07	DRS	E1
Di-n-Octylphthalate	ND	ug/kg	545	SW846 8270C	07/31/07 20:45	07/24/07	DRS	E1
Dibenzo(a,h)anthracene	272	ug/kg	141	SW846 8270C	07/31/07 20:45	07/24/07	DRS	E1
Dibenzofuran	ND	ug/kg	202	SW846 8270C	07/31/07 20:45	07/24/07	DRS	E1
1,2-Dichlorobenzene	ND	ug/kg	202	SW846 8270C	07/31/07 20:45	07/24/07	DRS	E1
1,3-Dichlorobenzene	ND	ug/kg	202	SW846 8270C	07/31/07 20:45	07/24/07	DRS	E1
1,4-Dichlorobenzene	ND	ug/kg	202	SW846 8270C	07/31/07 20:45	07/24/07	DRS	E1
3,3-Dichlorobenzidine	ND	ug/kg	202	SW846 8270C	07/31/07 20:45	07/24/07	DRS	E1
2,4-Dichlorophenol	ND	ug/kg	545	SW846 8270C	07/31/07 20:45	07/24/07	DRS	E1
Diethylphthalate	ND	ug/kg	202	SW846 8270C	07/31/07 20:45	07/24/07	DRS	E1
2,4-Dimethylphenol	ND	ug/kg	545	SW846 8270C	07/31/07 20:45	07/24/07	DRS	E1
Dimethylphthalate	ND	ug/kg	202	SW846 8270C	07/31/07 20:45	07/24/07	DRS	E1
2,4-Dinitrophenol	ND	ug/kg	1090	SW846 8270C	07/31/07 20:45	07/24/07	DRS	E1
2,4-Dinitrotoluene	ND	ug/kg	202	SW846 8270C	07/31/07 20:45	07/24/07	DRS	E1
2,6-Dinitrotoluene	ND	ug/kg	202	SW846 8270C	07/31/07 20:45	07/24/07	DRS	E1
bis(2-Ethylhexyl)phthalate	ND	ug/kg	202	SW846 8270C	07/31/07 20:45	07/24/07	DRS	E1
Fluoranthene	4660	ug/kg	141	SW846 8270C	07/31/07 20:45	07/24/07	DRS	E1
Fluorene	247	ug/kg	141	SW846 8270C	07/31/07 20:45	07/24/07	DRS	E1



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Page: 14 Of 29

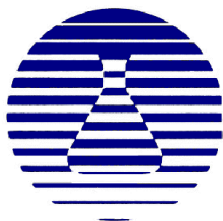
Project Name: **YORK RDA - NORTHWEST TRIANGLE**
Workorder ID: **Soils-8260B, 8270C, PCBs, Metals**

PO#: 07214
COC Number:

Sample ID: **A3-SS2 [1.0]**
Date Collected: 07/20/07 09:20

Matrix: Solid
Collected by: Collected by Customer

Analysis Parameter	Result	Units	RDL	Method	Completed	Prep Date	By	Cntr
SEMIVOLATILES (continued)								
Hexachlorobenzene	ND	ug/kg	202	SW846 8270C	07/31/07 20:45	07/24/07	DRS	E1
Hexachlorobutadiene	ND	ug/kg	202	SW846 8270C	07/31/07 20:45	07/24/07	DRS	E1
Hexachlorocyclopentadiene	ND	ug/kg	545	SW846 8270C	07/31/07 20:45	07/24/07	DRS	E1
Hexachloroethane	ND	ug/kg	202	SW846 8270C	07/31/07 20:45	07/24/07	DRS	E1
Indeno(1,2,3-cd)pyrene	579	ug/kg	141	SW846 8270C	07/31/07 20:45	07/24/07	DRS	E1
Isophorone	ND	ug/kg	202	SW846 8270C	07/31/07 20:45	07/24/07	DRS	E1
2-Methyl-4,6-dinitrophenol	ND	ug/kg	545	SW846 8270C	07/31/07 20:45	07/24/07	DRS	E1
2-Methylnaphthalene	ND	ug/kg	141	SW846 8270C	07/31/07 20:45	07/24/07	DRS	E1
Naphthalene	ND	ug/kg	141	SW846 8270C	07/31/07 20:45	07/24/07	DRS	E1
2-Nitroaniline	ND	ug/kg	202	SW846 8270C	07/31/07 20:45	07/24/07	DRS	E1
3-Nitroaniline	ND	ug/kg	545	SW846 8270C	07/31/07 20:45	07/24/07	DRS	E1
4-Nitroaniline	ND	ug/kg	545	SW846 8270C	07/31/07 20:45	07/24/07	DRS	E1
Nitrobenzene	ND	ug/kg	202	SW846 8270C	07/31/07 20:45	07/24/07	DRS	E1
2-Nitrophenol	ND	ug/kg	545	SW846 8270C	07/31/07 20:45	07/24/07	DRS	E1
4-Nitrophenol	ND	ug/kg	1090	SW846 8270C	07/31/07 20:45	07/24/07	DRS	E1
N-Nitroso-di-n-propylamine	ND	ug/kg	202	SW846 8270C	07/31/07 20:45	07/24/07	DRS	E1
N-Nitrosodiphenylamine	ND	ug/kg	202	SW846 8270C	07/31/07 20:45	07/24/07	DRS	E1
Pentachlorophenol	ND	ug/kg	1090	SW846 8270C	07/31/07 20:45	07/24/07	DRS	E1
Phenanthrene	3380	ug/kg	141	SW846 8270C	07/31/07 20:45	07/24/07	DRS	E1
Phenol	ND	ug/kg	545	SW846 8270C	07/31/07 20:45	07/24/07	DRS	E1



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August 2, 2007

Mr. Dan Buterbaugh
ARM Group Inc.
1129 W. Governor Road
Hershey, PA 17033

Lab ID #: **9694772002**
Received: 07/20/07 14:55
Discard: 08/16/07

Page: 15 Of 29

Project Name: **YORK RDA - NORTHWEST TRIANGLE**
Workorder ID: **Soils-8260B, 8270C, PCBs, Metals**

PO#: 07214
COC Number:

Sample ID: **A3-SS2 [1.0]**

Matrix: Solid

Date Collected: 07/20/07 09:20

Collected by: Collected by Customer

Analysis Parameter	Result	Units	RDL	Method	Completed	Prep Date	By	Cntr
SEMIVOLATILES (continued)								
Pyrene	4090	ug/kg	141	SW846 8270C	07/31/07 20:45	07/24/07	DRS	E1
1,2,4-Trichlorobenzene	ND	ug/kg	202	SW846 8270C	07/31/07 20:45	07/24/07	DRS	E1
2,4,5-Trichlorophenol	ND	ug/kg	545	SW846 8270C	07/31/07 20:45	07/24/07	DRS	E1
2,4,6-Trichlorophenol	ND	ug/kg	545	SW846 8270C	07/31/07 20:45	07/24/07	DRS	E1
PCB'S								
Aroclor-1016	ND	mg/kg	0.032	SW846 8082	07/27/07 05:15	07/25/07	JJH	E2
Aroclor-1221	ND	mg/kg	0.032	SW846 8082	07/27/07 05:15	07/25/07	JJH	E2
Aroclor-1232	ND	mg/kg	0.032	SW846 8082	07/27/07 05:15	07/25/07	JJH	E2
Aroclor-1242	ND	mg/kg	0.032	SW846 8082	07/27/07 05:15	07/25/07	JJH	E2
Aroclor-1248	ND	mg/kg	0.032	SW846 8082	07/27/07 05:15	07/25/07	JJH	E2
Aroclor-1254	ND	mg/kg	0.032	SW846 8082	07/27/07 05:15	07/25/07	JJH	E2
Aroclor-1260	ND	mg/kg	0.032	SW846 8082	07/27/07 05:15	07/25/07	JJH	E2
WET CHEMISTRY								
Moisture	2.9	%	0.1	SM20-2540 G	07/22/07 16:29	07/22/07	NMM	E
Total Solids	97.1	%	0.1	SM20-2540 G	07/22/07 16:29	07/22/07	NMM	E



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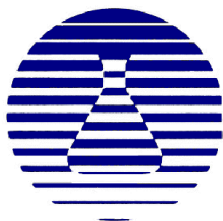
Page: 16 Of 29

Project Name: **YORK RDA - NORTHWEST TRIANGLE**
Workorder ID: **Soils-8260B, 8270C, PCBs, Metals**

PO#: 07214
COC Number:

Sample ID: **A3-SS2 [1.0]** Matrix: Solid
Date Collected: 07/20/07 09:20 Collected by: Collected by Customer

Analysis Parameter	Result	Units	RDL	Method	Completed	Prep Date	By	Cntr
METALS								
Arsenic, Total	3	mg/kg	2	SW846 6010B	08/01/07 16:18	07/30/07	JVU	E5
Barium, Total	33	mg/kg	0.7	SW846 6010B	08/01/07 16:18	07/30/07	JVU	E5
Cadmium, Total	ND	mg/kg	0.3	SW846 6010B	08/01/07 16:18	07/30/07	JVU	E5
Chromium, Total	7.3	mg/kg	0.7	SW846 6010B	08/01/07 16:18	07/30/07	JVU	E5
Lead, Total	34	mg/kg	1	SW846 6010B	08/01/07 16:18	07/30/07	JVU	E5
Mercury, Total	ND	mg/kg	0.19	SW846 7471B	07/31/07 09:49	07/30/07	CMD	E6
Selenium, Total	ND	mg/kg	3	SW846 6010B	08/01/07 16:18	07/30/07	JVU	E5
Silver, Total	ND	mg/kg	0.3	SW846 6010B	08/01/07 16:18	07/30/07	JVU	E5
Surrogates								
	Result	Units	Recovery	Limits				
2,4,6-Tribromophenol	2040	ug/kg	63.0%	(24 - 130)				
1,2-Dichloroethane-d4	21.4	ug/kg	91.0%	(56 - 124)				
Dibromofluoromethane	20.5	ug/kg	88.0%	(62 - 123)				
Toluene-d8	21	ug/kg	90.0%	(59 - 131)				
Decachlorobiphenyl	.065	mg/kg	82.0%	(30 - 150)				
2-Fluorobiphenyl	928	ug/kg	57.0%	(40 - 113)				
2-Fluorophenol	1870	ug/kg	57.0%	(25 - 110)				
Nitrobenzene-d5	914	ug/kg	56.0%	(36 - 113)				
Phenol-d5	2160	ug/kg	66.0%	(28 - 111)				
4-Bromofluorobenzene	20.3	ug/kg	87.0%	(51 - 128)				



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Page: 17 Of 29

Project Name: **YORK RDA - NORTHWEST TRIANGLE**
Workorder ID: **Soils-8260B, 8270C, PCBs, Metals**

PO#: 07214
COC Number:

Sample ID: **A3-SS2 [1.0]**
Date Collected: 07/20/07 09:20

Matrix: Solid
Collected by: Collected by Customer

Surrogates (continued)	Result	Units	Recovery	Limits
Tetrachloro-m-xylene	.064	mg/kg	81.0%	(30 - 136)
Terphenyl-d14	1000	ug/kg	61.0%	(35 - 135)

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

Raymond J. Martrano
Laboratory Manager



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Discard: 08/16/07

Page: 18 Of 29

Project Name: **YORK RDA - NORTHWEST TRIANGLE**
Workorder ID: **Soils-8260B, 8270C, PCBs, Metals**

PO#: 07214
COC Number:

Sample ID: **A3-SS3 [1.0]**
Date Collected: 07/20/07 09:35

Matrix: Solid
Collected by: Collected by Customer

Analysis Parameter	Result	Units	RDL	Method	Completed	Prep Date	By	Cntr
VOLATILE ORGANICS								
Acetone	ND	ug/kg	26.2	8260/5035	07/25/07 01:12	07/20/07	ECR	B
Benzene	ND	ug/kg	2.1	8260/5035	07/25/07 01:12	07/20/07	ECR	B
Bromochloromethane	ND	ug/kg	2.1	8260/5035	07/25/07 01:12	07/20/07	ECR	B
Bromodichloromethane	ND	ug/kg	2.1	8260/5035	07/25/07 01:12	07/20/07	ECR	B
Bromoform	ND	ug/kg	2.1	8260/5035	07/25/07 01:12	07/20/07	ECR	B
Bromomethane	ND	ug/kg	4.2	8260/5035	07/25/07 01:12	07/20/07	ECR	B
2-Butanone	ND	ug/kg	10.5	8260/5035	07/25/07 01:12	07/20/07	ECR	B
Carbon Disulfide	ND	ug/kg	2.1	8260/5035	07/25/07 01:12	07/20/07	ECR	B
Carbon Tetrachloride	ND	ug/kg	2.1	8260/5035	07/25/07 01:12	07/20/07	ECR	B
Chlorobenzene	ND	ug/kg	2.1	8260/5035	07/25/07 01:12	07/20/07	ECR	B
Chlorodibromomethane	ND	ug/kg	2.1	8260/5035	07/25/07 01:12	07/20/07	ECR	B
Chloroethane	ND	ug/kg	2.1	8260/5035	07/25/07 01:12	07/20/07	ECR	B
Chloroform	ND	ug/kg	2.1	8260/5035	07/25/07 01:12	07/20/07	ECR	B
Chloromethane	ND	ug/kg	2.1	8260/5035	07/25/07 01:12	07/20/07	ECR	B
1,2-Dibromo-3-chloropropane	ND	ug/kg	4.2	8260/5035	07/25/07 01:12	07/20/07	ECR	B
1,2-Dibromoethane	ND	ug/kg	2.1	8260/5035	07/25/07 01:12	07/20/07	ECR	B
1,1-Dichloroethane	ND	ug/kg	2.1	8260/5035	07/25/07 01:12	07/20/07	ECR	B
1,2-Dichloroethane	ND	ug/kg	2.1	8260/5035	07/25/07 01:12	07/20/07	ECR	B
1,1-Dichloroethene	ND	ug/kg	2.1	8260/5035	07/25/07 01:12	07/20/07	ECR	B
cis-1,2-Dichloroethene	ND	ug/kg	2.1	8260/5035	07/25/07 01:12	07/20/07	ECR	B



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Page: 19 Of 29

Project Name: **YORK RDA - NORTHWEST TRIANGLE**
Workorder ID: **Soils-8260B, 8270C, PCBs, Metals**

PO#: 07214
COC Number:

Sample ID: **A3-SS3 [1.0]**
Date Collected: 07/20/07 09:35

Matrix: Solid
Collected by: Collected by Customer

Analysis Parameter	Result	Units	RDL	Method	Completed	Prep Date	By	Cntr
VOLATILE ORGANICS (continued)								
trans-1,2-Dichloroethene	ND	ug/kg	2.1	8260/5035	07/25/07 01:12	07/20/07	ECR	B
1,2-Dichloropropane	ND	ug/kg	2.1	8260/5035	07/25/07 01:12	07/20/07	ECR	B
cis-1,3-Dichloropropene	ND	ug/kg	2.1	8260/5035	07/25/07 01:12	07/20/07	ECR	B
trans-1,3-Dichloropropene	ND	ug/kg	2.1	8260/5035	07/25/07 01:12	07/20/07	ECR	B
Ethylbenzene	ND	ug/kg	2.1	8260/5035	07/25/07 01:12	07/20/07	ECR	B
2-Hexanone	ND	ug/kg	10.5	8260/5035	07/25/07 01:12	07/20/07	ECR	B
4-Methyl-2-Pentanone(MIBK)	ND	ug/kg	10.5	8260/5035	07/25/07 01:12	07/20/07	ECR	B
Methylene Chloride	ND	ug/kg	2.1	8260/5035	07/25/07 01:12	07/20/07	ECR	B
Styrene	ND	ug/kg	2.1	8260/5035	07/25/07 01:12	07/20/07	ECR	B
1,1,2,2-Tetrachloroethane	ND	ug/kg	2.1	8260/5035	07/25/07 01:12	07/20/07	ECR	B
Tetrachloroethene	ND	ug/kg	2.1	8260/5035	07/25/07 01:12	07/20/07	ECR	B
Toluene	ND	ug/kg	2.1	8260/5035	07/25/07 01:12	07/20/07	ECR	B
Total Xylenes	ND	ug/kg	6.3	8260/5035	07/25/07 01:12	07/20/07	ECR	B
1,1,1-Trichloroethane	ND	ug/kg	2.1	8260/5035	07/25/07 01:12	07/20/07	ECR	B
1,1,2-Trichloroethane	ND	ug/kg	2.1	8260/5035	07/25/07 01:12	07/20/07	ECR	B
Trichloroethene	ND	ug/kg	2.1	8260/5035	07/25/07 01:12	07/20/07	ECR	B
Vinyl Chloride	ND	ug/kg	2.1	8260/5035	07/25/07 01:12	07/20/07	ECR	B
o-Xylene	ND	ug/kg	2.1	8260/5035	07/25/07 01:12	07/20/07	ECR	B
mp-Xylene	ND	ug/kg	4.2	8260/5035	07/25/07 01:12	07/20/07	ECR	B



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Page: 20 Of 29

Project Name: **YORK RDA - NORTHWEST TRIANGLE**
Workorder ID: **Soils-8260B, 8270C, PCBs, Metals**

PO#: 07214
COC Number:

Sample ID: **A3-SS3 [1.0]** Matrix: Solid
Date Collected: 07/20/07 09:35 Collected by: Collected by Customer

Analysis Parameter	Result	Units	RDL	Method	Completed	Prep Date	By	Cntr
SEMIVOLATILES								
Acenaphthene	140	ug/kg	71	SW846 8270C	07/31/07 19:56	07/24/07	DRS	E1
Acenaphthylene	136	ug/kg	71	SW846 8270C	07/31/07 19:56	07/24/07	DRS	E1
Anthracene	441	ug/kg	71	SW846 8270C	07/31/07 19:56	07/24/07	DRS	E1
Benzo(a)anthracene	1390	ug/kg	71	SW846 8270C	07/31/07 19:56	07/24/07	DRS	E1
Benzo(a)pyrene	1460	ug/kg	71	SW846 8270C	07/31/07 19:56	07/24/07	DRS	E1
Benzo(b)fluoranthene	1990	ug/kg	71	SW846 8270C	07/31/07 19:56	07/24/07	DRS	E1
Benzo(g,h,i)perylene	118	ug/kg	71	SW846 8270C	07/31/07 19:56	07/24/07	DRS	E1
Benzo(k)fluoranthene	1910	ug/kg	71	SW846 8270C	07/31/07 19:56	07/24/07	DRS	E1
4-Bromophenyl-phenylether	ND	ug/kg	101	SW846 8270C	07/31/07 19:56	07/24/07	DRS	E1
Butylbenzylphthalate	ND	ug/kg	101	SW846 8270C	07/31/07 19:56	07/24/07	DRS	E1
Carbazole	184	ug/kg	101	SW846 8270C	07/31/07 19:56	07/24/07	DRS	E1
4-Chloro-3-methylphenol	ND	ug/kg	272	SW846 8270C	07/31/07 19:56	07/24/07	DRS	E1
4-Chloroaniline	ND	ug/kg	272	SW846 8270C	07/31/07 19:56	07/24/07	DRS	E1
Bis(2-Chloroethoxy)methane	ND	ug/kg	101	SW846 8270C	07/31/07 19:56	07/24/07	DRS	E1
Bis(2-Chloroethyl)ether	ND	ug/kg	101	SW846 8270C	07/31/07 19:56	07/24/07	DRS	E1
bis(2-Chloroisopropyl)ether	ND	ug/kg	101	SW846 8270C	07/31/07 19:56	07/24/07	DRS	E1
2-Chloronaphthalene	ND	ug/kg	101	SW846 8270C	07/31/07 19:56	07/24/07	DRS	E1
2-Chlorophenol	ND	ug/kg	272	SW846 8270C	07/31/07 19:56	07/24/07	DRS	E1
4-Chlorophenyl-phenylether	ND	ug/kg	101	SW846 8270C	07/31/07 19:56	07/24/07	DRS	E1
Chrysene	1580	ug/kg	71	SW846 8270C	07/31/07 19:56	07/24/07	DRS	E1



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Page: 21 Of 29

Project Name: **YORK RDA - NORTHWEST TRIANGLE**
Workorder ID: **Soils-8260B, 8270C, PCBs, Metals**

PO#: 07214
COC Number:

Sample ID: **A3-SS3 [1.0]**
Date Collected: 07/20/07 09:35

Matrix: Solid
Collected by: Collected by Customer

Analysis Parameter	Result	Units	RDL	Method	Completed	Prep Date	By	Cntr
SEMIVOLATILES (continued)								
mp-Cresol	ND	ug/kg	272	SW846 8270C	07/31/07 19:56	07/24/07	DRS	E1
o-Cresol	ND	ug/kg	272	SW846 8270C	07/31/07 19:56	07/24/07	DRS	E1
Di-n-Butylphthalate	ND	ug/kg	101	SW846 8270C	07/31/07 19:56	07/24/07	DRS	E1
Di-n-Octylphthalate	ND	ug/kg	272	SW846 8270C	07/31/07 19:56	07/24/07	DRS	E1
Dibenzo(a,h)anthracene	100	ug/kg	71	SW846 8270C	07/31/07 19:56	07/24/07	DRS	E1
Dibenzofuran	ND	ug/kg	101	SW846 8270C	07/31/07 19:56	07/24/07	DRS	E1
1,2-Dichlorobenzene	ND	ug/kg	101	SW846 8270C	07/31/07 19:56	07/24/07	DRS	E1
1,3-Dichlorobenzene	ND	ug/kg	101	SW846 8270C	07/31/07 19:56	07/24/07	DRS	E1
1,4-Dichlorobenzene	ND	ug/kg	101	SW846 8270C	07/31/07 19:56	07/24/07	DRS	E1
3,3-Dichlorobenzidine	ND	ug/kg	101	SW846 8270C	07/31/07 19:56	07/24/07	DRS	E1
2,4-Dichlorophenol	ND	ug/kg	272	SW846 8270C	07/31/07 19:56	07/24/07	DRS	E1
Diethylphthalate	ND	ug/kg	101	SW846 8270C	07/31/07 19:56	07/24/07	DRS	E1
2,4-Dimethylphenol	ND	ug/kg	272	SW846 8270C	07/31/07 19:56	07/24/07	DRS	E1
Dimethylphthalate	ND	ug/kg	101	SW846 8270C	07/31/07 19:56	07/24/07	DRS	E1
2,4-Dinitrophenol	ND	ug/kg	544	SW846 8270C	07/31/07 19:56	07/24/07	DRS	E1
2,4-Dinitrotoluene	ND	ug/kg	101	SW846 8270C	07/31/07 19:56	07/24/07	DRS	E1
2,6-Dinitrotoluene	ND	ug/kg	101	SW846 8270C	07/31/07 19:56	07/24/07	DRS	E1
bis(2-Ethylhexyl)phthalate	ND	ug/kg	101	SW846 8270C	07/31/07 19:56	07/24/07	DRS	E1
Fluoranthene	3260	ug/kg	71	SW846 8270C	07/31/07 19:56	07/24/07	DRS	E1
Fluorene	135	ug/kg	71	SW846 8270C	07/31/07 19:56	07/24/07	DRS	E1



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Discard: 08/16/07

Page: 22 Of 29

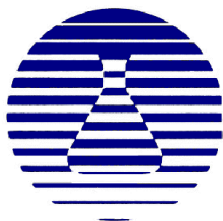
Project Name: **YORK RDA - NORTHWEST TRIANGLE**
Workorder ID: **Soils-8260B, 8270C, PCBs, Metals**

PO#: 07214
COC Number:

Sample ID: **A3-SS3 [1.0]**
Date Collected: 07/20/07 09:35

Matrix: Solid
Collected by: Collected by Customer

Analysis Parameter	Result	Units	RDL	Method	Completed	Prep Date	By	Cntr
SEMIVOLATILES (continued)								
Hexachlorobenzene	ND	ug/kg	101	SW846 8270C	07/31/07 19:56	07/24/07	DRS	E1
Hexachlorobutadiene	ND	ug/kg	101	SW846 8270C	07/31/07 19:56	07/24/07	DRS	E1
Hexachlorocyclopentadiene	ND	ug/kg	272	SW846 8270C	07/31/07 19:56	07/24/07	DRS	E1
Hexachloroethane	ND	ug/kg	101	SW846 8270C	07/31/07 19:56	07/24/07	DRS	E1
Indeno(1,2,3-cd)pyrene	223	ug/kg	71	SW846 8270C	07/31/07 19:56	07/24/07	DRS	E1
Isophorone	ND	ug/kg	101	SW846 8270C	07/31/07 19:56	07/24/07	DRS	E1
2-Methyl-4,6-dinitrophenol	ND	ug/kg	272	SW846 8270C	07/31/07 19:56	07/24/07	DRS	E1
2-Methylnaphthalene	ND	ug/kg	71	SW846 8270C	07/31/07 19:56	07/24/07	DRS	E1
Naphthalene	ND	ug/kg	71	SW846 8270C	07/31/07 19:56	07/24/07	DRS	E1
2-Nitroaniline	ND	ug/kg	101	SW846 8270C	07/31/07 19:56	07/24/07	DRS	E1
3-Nitroaniline	ND	ug/kg	272	SW846 8270C	07/31/07 19:56	07/24/07	DRS	E1
4-Nitroaniline	ND	ug/kg	272	SW846 8270C	07/31/07 19:56	07/24/07	DRS	E1
Nitrobenzene	ND	ug/kg	101	SW846 8270C	07/31/07 19:56	07/24/07	DRS	E1
2-Nitrophenol	ND	ug/kg	272	SW846 8270C	07/31/07 19:56	07/24/07	DRS	E1
4-Nitrophenol	ND	ug/kg	544	SW846 8270C	07/31/07 19:56	07/24/07	DRS	E1
N-Nitroso-di-n-propylamine	ND	ug/kg	101	SW846 8270C	07/31/07 19:56	07/24/07	DRS	E1
N-Nitrosodiphenylamine	ND	ug/kg	101	SW846 8270C	07/31/07 19:56	07/24/07	DRS	E1
Pentachlorophenol	ND	ug/kg	544	SW846 8270C	07/31/07 19:56	07/24/07	DRS	E1
Phenanthrene	2160	ug/kg	71	SW846 8270C	07/31/07 19:56	07/24/07	DRS	E1
Phenol	ND	ug/kg	272	SW846 8270C	07/31/07 19:56	07/24/07	DRS	E1



Certificate of Analysis

August 2, 2007

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ARM Group Inc.
1129 W. Governor Road
Hershey, PA 17033

Lab ID #: **9694772003**
Received: 07/20/07 14:55
Discard: 08/16/07

Page: 23 Of 29

Project Name: **YORK RDA - NORTHWEST TRIANGLE**
Workorder ID: **Soils-8260B, 8270C, PCBs, Metals**

PO#: 07214
COC Number:

Sample ID: **A3-SS3 [1.0]**
Date Collected: 07/20/07 09:35

Matrix: Solid
Collected by: Collected by Customer

Analysis Parameter	Result	Units	RDL	Method	Completed	Prep Date	By	Cntr
SEMIVOLATILES (continued)								
Pyrene	2670	ug/kg	71	SW846 8270C	07/31/07 19:56	07/24/07	DRS	E1
1,2,4-Trichlorobenzene	ND	ug/kg	101	SW846 8270C	07/31/07 19:56	07/24/07	DRS	E1
2,4,5-Trichlorophenol	ND	ug/kg	272	SW846 8270C	07/31/07 19:56	07/24/07	DRS	E1
2,4,6-Trichlorophenol	ND	ug/kg	272	SW846 8270C	07/31/07 19:56	07/24/07	DRS	E1
PCB'S								
Aroclor-1016	ND	mg/kg	0.034	SW846 8082	07/27/07 11:20	07/25/07	JJH	E2
Aroclor-1221	ND	mg/kg	0.034	SW846 8082	07/27/07 11:20	07/25/07	JJH	E2
Aroclor-1232	ND	mg/kg	0.034	SW846 8082	07/27/07 11:20	07/25/07	JJH	E2
Aroclor-1242	ND	mg/kg	0.034	SW846 8082	07/27/07 11:20	07/25/07	JJH	E2
Aroclor-1248	ND	mg/kg	0.034	SW846 8082	07/27/07 11:20	07/25/07	JJH	E2
Aroclor-1254	ND	mg/kg	0.034	SW846 8082	07/27/07 11:20	07/25/07	JJH	E2
Aroclor-1260	ND	mg/kg	0.034	SW846 8082	07/27/07 11:20	07/25/07	JJH	E2
WET CHEMISTRY								
Moisture	2.7	%	0.1	SM20-2540 G	07/22/07 16:29	07/22/07	NMM	E
Total Solids	97.3	%	0.1	SM20-2540 G	07/22/07 16:29	07/22/07	NMM	E



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Page: 24 Of 29

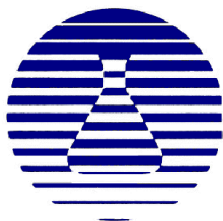
Project Name: **YORK RDA - NORTHWEST TRIANGLE**
Workorder ID: **Soils-8260B, 8270C, PCBs, Metals**

PO#: 07214
COC Number:

Sample ID: **A3-SS3 [1.0]**
Date Collected: 07/20/07 09:35

Matrix: Solid
Collected by: Collected by Customer

Analysis Parameter	Result	Units	RDL	Method	Completed	Prep Date	By	Cntr
METALS								
Arsenic, Total	ND	mg/kg	2	SW846 6010B	08/01/07 16:22	07/30/07	JVU	E3
Barium, Total	19	mg/kg	0.9	SW846 6010B	08/01/07 16:22	07/30/07	JVU	E3
Cadmium, Total	ND	mg/kg	0.4	SW846 6010B	08/01/07 16:22	07/30/07	JVU	E3
Chromium, Total	2.9	mg/kg	0.9	SW846 6010B	08/01/07 16:22	07/30/07	JVU	E3
Lead, Total	15	mg/kg	2	SW846 6010B	08/01/07 16:22	07/30/07	JVU	E3
Mercury, Total	ND	mg/kg	0.18	SW846 7471B	07/31/07 09:53	07/30/07	CMD	E4
Selenium, Total	ND	mg/kg	4	SW846 6010B	08/01/07 16:22	07/30/07	JVU	E3
Silver, Total	ND	mg/kg	0.4	SW846 6010B	08/01/07 16:22	07/30/07	JVU	E3
Surrogates								
	Result	Units	Recovery	Limits				
2,4,6-Tribromophenol	2900	ug/kg	89.0%	(24 - 130)				
1,2-Dichloroethane-d4	29	ug/kg	95.0%	(56 - 124)				
Dibromofluoromethane	26.4	ug/kg	86.0%	(62 - 123)				
Toluene-d8	26.3	ug/kg	86.0%	(59 - 131)				
Decachlorobiphenyl	.062	mg/kg	75.0%	(30 - 150)				
2-Fluorobiphenyl	1180	ug/kg	72.0%	(40 - 113)				
2-Fluorophenol	2150	ug/kg	66.0%	(25 - 110)				
Nitrobenzene-d5	1180	ug/kg	72.0%	(36 - 113)				
Phenol-d5	2450	ug/kg	75.0%	(28 - 111)				
4-Bromofluorobenzene	26.5	ug/kg	87.0%	(51 - 128)				



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August 2, 2007

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ARM Group Inc.
1129 W. Governor Road
Hershey, PA 17033

Lab ID #: **9694772003**
Received: 07/20/07 14:55
Discard: 08/16/07

Page: 25 Of 29

Project Name: **YORK RDA - NORTHWEST TRIANGLE**
Workorder ID: **Soils-8260B, 8270C, PCBs, Metals**

PO#: 07214
COC Number:

Sample ID: **A3-SS3 [1.0]**
Date Collected: 07/20/07 09:35

Matrix: Solid
Collected by: Collected by Customer

Surrogates (continued)	Result	Units	Recovery	Limits
Tetrachloro-m-xylene	.072	mg/kg	87.0%	(30 - 136)
Terphenyl-d14	1310	ug/kg	80.0%	(35 - 135)

Comments:

One or more of the GCMS semi-volatile internal standards were recovered at <50%. The sample was reanalyzed with similar results indicating a sample matrix interference.

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

Raymond J. Martrano
Laboratory Manager



Certificate of Analysis

August 2, 2007

Mr. Dan Buterbaugh
ARM Group Inc.
1129 W. Governor Road
Hershey, PA 17033

Lab ID #: **9694772004**
Received: 07/20/07 14:55
Discard: 08/16/07

Page: 26 Of 29

Project Name: **YORK RDA - NORTHWEST TRIANGLE**
Workorder ID: **Soils-8260B,8270C,PCBs,Metals**

PO#: 07214
COC Number:

Sample ID: **D-SB7 [3.5]**

Matrix: Solid

Date Collected: 07/20/07 12:05

Collected by: Collected by Customer

Analysis Parameter	Result	Units	RDL	Method	Completed	Prep Date	By	Cntr
VOLATILE ORGANICS								
Benzene	ND	ug/kg	46.7	8260/5035	07/25/07 22:02	07/20/07	ECR	A
Ethylbenzene	ND	ug/kg	46.7	8260/5035	07/25/07 22:02	07/20/07	ECR	A
Isopropylbenzene	ND	ug/kg	46.7	8260/5035	07/25/07 22:02	07/20/07	ECR	A
Naphthalene	169	ug/kg	93.5	8260/5035	07/25/07 22:02	07/20/07	ECR	A
Toluene	ND	ug/kg	46.7	8260/5035	07/25/07 22:02	07/20/07	ECR	A
SEMIVOLATILES								
Benzo(a)anthracene	ND	ug/kg	557	SW846 8270C	07/27/07 13:01	07/24/07	TTR	D1
Benzo(a)pyrene	ND	ug/kg	557	SW846 8270C	07/27/07 13:01	07/24/07	TTR	D1
Benzo(b)fluoranthene	ND	ug/kg	557	SW846 8270C	07/27/07 13:01	07/24/07	TTR	D1
Benzo(g,h,i)perylene	ND	ug/kg	557	SW846 8270C	07/27/07 13:01	07/24/07	TTR	D1
Chrysene	ND	ug/kg	557	SW846 8270C	07/27/07 13:01	07/24/07	TTR	D1
Indeno(1,2,3-cd)pyrene	ND	ug/kg	557	SW846 8270C	07/27/07 13:01	07/24/07	TTR	D1
Pyrene	ND	ug/kg	557	SW846 8270C	07/27/07 13:01	07/24/07	TTR	D1
WET CHEMISTRY								
Moisture	11.7	%	0.1	SM20-2540 G	07/22/07 16:29	07/22/07	NMM	D
Total Solids	88.3	%	0.1	SM20-2540 G	07/22/07 16:29	07/22/07	NMM	D



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ARM Group Inc.
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Lab ID #: **9694772004**
Received: 07/20/07 14:55
Discard: 08/16/07

Page: 27 Of 29

Project Name: **YORK RDA - NORTHWEST TRIANGLE**
Workorder ID: **Soils-8260B, 8270C, PCBs, Metals**

PO#: 07214
COC Number:

Sample ID: **D-SB7 [3.5]**
Date Collected: 07/20/07 12:05

Matrix: Solid
Collected by: Collected by Customer

Analysis Parameter	Result	Units	RDL	Method	Completed	Prep Date	By	Cntr
METALS								
Lead, Total	18	mg/kg	2	SW846 6010B	08/01/07 16:45	07/30/07	JVU	D2
Surrogates	Result	Units	Recovery	Limits				
1,2-Dichloroethane-d4	1240	ug/kg	100.0%	(71 - 146)				
Dibromofluoromethane	1410	ug/kg	114.0%	(42 - 143)				
Toluene-d8	1430	ug/kg	116.0%	(54 - 141)				
2-Fluorobiphenyl	1150	ug/kg	70.0%	(43 - 113)				
Nitrobenzene-d5	1190	ug/kg	73.0%	(23 - 131)				
4-Bromofluorobenzene	1220	ug/kg	98.0%	(46 - 138)				
Terphenyl-d14	1070	ug/kg	65.0%	(45 - 122)				

Comments:

For the 8270 analysis, this sample was extracted with twice the called for weight. Data not impacted.

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

Raymond J. Martrano
Laboratory Manager



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August 2, 2007

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Lab ID #: **9694772005**
Received: 07/20/07 14:55
Discard: 08/16/07

Page: 28 Of 29

Project Name: **YORK RDA - NORTHWEST TRIANGLE**
Workorder ID: **Soils-8260B, 8270C, PCBs, Metals**

PO#: 07214
COC Number:

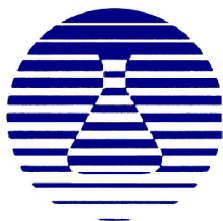
Sample ID: **D-SB8 [3.5]**

Matrix: Solid

Date Collected: 07/20/07 12:25

Collected by: Collected by Customer

Analysis Parameter	Result	Units	RDL	Method	Completed	Prep Date	By	Cntr
VOLATILE ORGANICS								
Benzene	ND	ug/kg	48.8	8260/5035	07/25/07 21:29	07/20/07	ECR	A
Naphthalene	ND	ug/kg	97.5	8260/5035	07/25/07 21:29	07/20/07	ECR	A
SEMIVOLATILES								
Anthracene	ND	ug/kg	59.4	SW846 8270C	07/27/07 12:12	07/24/07	TTR	D1
Benzo(a)anthracene	ND	ug/kg	59.4	SW846 8270C	07/27/07 12:12	07/24/07	TTR	D1
Benzo(a)pyrene	ND	ug/kg	59.4	SW846 8270C	07/27/07 12:12	07/24/07	TTR	D1
Benzo(b)fluoranthene	ND	ug/kg	59.4	SW846 8270C	07/27/07 12:12	07/24/07	TTR	D1
Benzo(g,h,i)perylene	ND	ug/kg	59.4	SW846 8270C	07/27/07 12:12	07/24/07	TTR	D1
Chrysene	72.3	ug/kg	59.4	SW846 8270C	07/27/07 12:12	07/24/07	TTR	D1
Fluorene	ND	ug/kg	59.4	SW846 8270C	07/27/07 12:12	07/24/07	TTR	D1
Phenanthrene	238	ug/kg	59.4	SW846 8270C	07/27/07 12:12	07/24/07	TTR	D1
Pyrene	106	ug/kg	59.4	SW846 8270C	07/27/07 12:12	07/24/07	TTR	D1
WET CHEMISTRY								
Moisture	17.2	%	0.1	SM20-2540 G	07/22/07 16:29	07/22/07	NMM	D
Total Solids	82.8	%	0.1	SM20-2540 G	07/22/07 16:29	07/22/07	NMM	D



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August 2, 2007

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ARM Group Inc.
1129 W. Governor Road
Hershey, PA 17033

Lab ID #: **9694772005**
Received: 07/20/07 14:55
Discard: 08/16/07

Page: 29 Of 29

Project Name: **YORK RDA - NORTHWEST TRIANGLE**
Workorder ID: **Soils-8260B, 8270C, PCBs, Metals**

PO#: 07214
COC Number:

Sample ID: **D-SB8 [3.5]**
Date Collected: 07/20/07 12:25

Matrix: Solid
Collected by: Collected by Customer

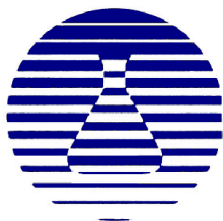
Surrogates	Result	Units	Recovery	Limits
1,2-Dichloroethane-d4	1120	ug/kg	93.0%	(71 - 146)
Dibromofluoromethane	1300	ug/kg	107.0%	(42 - 143)
Toluene-d8	1320	ug/kg	109.0%	(54 - 141)
2-Fluorobiphenyl	1450	ug/kg	89.0%	(43 - 113)
Nitrobenzene-d5	1430	ug/kg	87.0%	(23 - 131)
4-Bromofluorobenzene	1110	ug/kg	91.0%	(46 - 138)
Terphenyl-d14	1480	ug/kg	90.0%	(45 - 122)

Comments:

For the 8270 analysis, this sample was extracted with twice the called for weight. Data not impacted.

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Raymond J. Martrano
Laboratory Manager



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August 10, 2007

Mr. Dan Buterbaugh
ARM Group Inc.
1129 W. Governor Road
Hershey, PA 17033

Lab ID#: **9695451**

Page: 1 Of 71

Project Name: **YORK RDA - NORTHWEST TRIANGLE**
Workorder ID: **Soils-8260B, 8270C, PCBs, Metals**

PO#: 07214

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Unless otherwise noted, all quantitative results for soils are reported on a dry weight basis. Samples collected by ALSI personnel are done so in accordance with the procedures set forth in the ALSI Field Sampling Plan.

A result of ND indicates that the analyte was Not Detected at the Reporting Detection Limit (RDL). The RDL, by default, is equivalent to the Practical Quantitation Limit (PQL) or may be equivalent to the Method Detection Limit (MDL), if specifically requested by the customer.

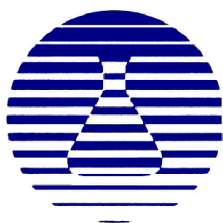
Qualifier Flags - These flags may follow individual results for a specific analyte

U - Indicates that the analyte was not detected

J - Indicates an estimated value between the MDL and PQL

Note: This cover letter and the attached Chain-of-Custody document is included as part of the Analytical Report and must be retained as a permanent record thereof.

Raymond J. Martrano
Laboratory Manager



Certificate of Analysis

August 10, 2007

Mr. Dan Buterbaugh
ARM Group Inc.
1129 W. Governor Road
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Lab ID #: **9695451001**
Received: 07/26/07 16:15
Discard: 08/24/07

Page: 2 Of 71

Project Name: **YORK RDA - NORTHWEST TRIANGLE**
Workorder ID: **Soils-8260B, 8270C, PCBs, Metals**

PO#: 07214
COC Number:

Sample ID: **E-SS1[2.5]**
Date Collected: 07/26/07 09:25

Matrix: Solid
Collected by: Mr. Dan Buterbaugh

Analysis Parameter	Result	Units	RDL	Method	Completed	Prep Date	By	Cntr
VOLATILE ORGANICS								
Acetone	ND	ug/kg	17.3	8260/5035	07/30/07 10:05	07/26/07	JAH	B
Benzene	ND	ug/kg	1.4	8260/5035	07/30/07 10:05	07/26/07	JAH	B
Bromochloromethane	ND	ug/kg	1.4	8260/5035	07/30/07 10:05	07/26/07	JAH	B
Bromodichloromethane	ND	ug/kg	1.4	8260/5035	07/30/07 10:05	07/26/07	JAH	B
Bromoform	ND	ug/kg	1.4	8260/5035	07/30/07 10:05	07/26/07	JAH	B
Bromomethane	ND	ug/kg	2.8	8260/5035	07/30/07 10:05	07/26/07	JAH	B
2-Butanone	ND	ug/kg	6.9	8260/5035	07/30/07 10:05	07/26/07	JAH	B
Carbon Disulfide	ND	ug/kg	1.4	8260/5035	07/30/07 10:05	07/26/07	JAH	B
Carbon Tetrachloride	ND	ug/kg	1.4	8260/5035	07/30/07 10:05	07/26/07	JAH	B
Chlorobenzene	ND	ug/kg	1.4	8260/5035	07/30/07 10:05	07/26/07	JAH	B
Chlorodibromomethane	ND	ug/kg	1.4	8260/5035	07/30/07 10:05	07/26/07	JAH	B
Chloroethane	ND	ug/kg	1.4	8260/5035	07/30/07 10:05	07/26/07	JAH	B
Chloroform	ND	ug/kg	1.4	8260/5035	07/30/07 10:05	07/26/07	JAH	B
Chloromethane	ND	ug/kg	1.4	8260/5035	07/30/07 10:05	07/26/07	JAH	B
1,2-Dibromo-3-chloropropane	ND	ug/kg	2.8	8260/5035	07/30/07 10:05	07/26/07	JAH	B
1,2-Dibromoethane	ND	ug/kg	1.4	8260/5035	07/30/07 10:05	07/26/07	JAH	B
1,1-Dichloroethane	ND	ug/kg	1.4	8260/5035	07/30/07 10:05	07/26/07	JAH	B
1,2-Dichloroethane	ND	ug/kg	1.4	8260/5035	07/30/07 10:05	07/26/07	JAH	B
1,1-Dichloroethene	ND	ug/kg	1.4	8260/5035	07/30/07 10:05	07/26/07	JAH	B
cis-1,2-Dichloroethene	ND	ug/kg	1.4	8260/5035	07/30/07 10:05	07/26/07	JAH	B



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August 10, 2007

Mr. Dan Buterbaugh
ARM Group Inc.
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Lab ID #: **9695451001**
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Page: 3 Of 71

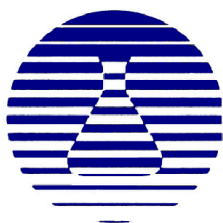
Project Name: **YORK RDA - NORTHWEST TRIANGLE**
Workorder ID: **Soils-8260B, 8270C, PCBs, Metals**

PO#: 07214
COC Number:

Sample ID: **E-SS1[2.5]**
Date Collected: 07/26/07 09:25

Matrix: Solid
Collected by: Mr. Dan Buterbaugh

Analysis Parameter	Result	Units	RDL	Method	Completed	Prep Date	By	Cntr
VOLATILE ORGANICS (continued)								
trans-1,2-Dichloroethene	ND	ug/kg	1.4	8260/5035	07/30/07 10:05	07/26/07	JAH	B
1,2-Dichloropropane	ND	ug/kg	1.4	8260/5035	07/30/07 10:05	07/26/07	JAH	B
cis-1,3-Dichloropropene	ND	ug/kg	1.4	8260/5035	07/30/07 10:05	07/26/07	JAH	B
trans-1,3-Dichloropropene	ND	ug/kg	1.4	8260/5035	07/30/07 10:05	07/26/07	JAH	B
Ethylbenzene	ND	ug/kg	1.4	8260/5035	07/30/07 10:05	07/26/07	JAH	B
2-Hexanone	ND	ug/kg	6.9	8260/5035	07/30/07 10:05	07/26/07	JAH	B
4-Methyl-2-Pentanone(MIBK)	ND	ug/kg	6.9	8260/5035	07/30/07 10:05	07/26/07	JAH	B
Methylene Chloride	ND	ug/kg	1.4	8260/5035	07/30/07 10:05	07/26/07	JAH	B
Styrene	ND	ug/kg	1.4	8260/5035	07/30/07 10:05	07/26/07	JAH	B
1,1,2,2-Tetrachloroethane	ND	ug/kg	1.4	8260/5035	07/30/07 10:05	07/26/07	JAH	B
Tetrachloroethene	ND	ug/kg	1.4	8260/5035	07/30/07 10:05	07/26/07	JAH	B
Toluene	ND	ug/kg	1.4	8260/5035	07/30/07 10:05	07/26/07	JAH	B
Total Xylenes	ND	ug/kg	4.2	8260/5035	07/30/07 10:05	07/26/07	JAH	B
1,1,1-Trichloroethane	ND	ug/kg	1.4	8260/5035	07/30/07 10:05	07/26/07	JAH	B
1,1,2-Trichloroethane	ND	ug/kg	1.4	8260/5035	07/30/07 10:05	07/26/07	JAH	B
Trichloroethene	ND	ug/kg	1.4	8260/5035	07/30/07 10:05	07/26/07	JAH	B
Vinyl Chloride	ND	ug/kg	1.4	8260/5035	07/30/07 10:05	07/26/07	JAH	B
o-Xylene	ND	ug/kg	1.4	8260/5035	07/30/07 10:05	07/26/07	JAH	B
mp-Xylene	ND	ug/kg	2.8	8260/5035	07/30/07 10:05	07/26/07	JAH	B



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August 10, 2007

Mr. Dan Buterbaugh
ARM Group Inc.
1129 W. Governor Road
Hershey, PA 17033

Lab ID #: **9695451001**
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Page: 4 Of 71

Project Name: **YORK RDA - NORTHWEST TRIANGLE**
Workorder ID: **Soils-8260B, 8270C, PCBs, Metals**

PO#: 07214
COC Number:

Sample ID: **E-SS1[2.5]**
Date Collected: 07/26/07 09:25

Matrix: Solid
Collected by: Mr. Dan Buterbaugh

Analysis Parameter	Result	Units	RDL	Method	Completed	Prep Date	By	Cntr
SEMIVOLATILES								
Acenaphthene	ND	ug/kg	84	SW846 8270C	07/30/07 19:24	07/27/07	DRS	E1
Acenaphthylene	ND	ug/kg	84	SW846 8270C	07/30/07 19:24	07/27/07	DRS	E1
Anthracene	ND	ug/kg	84	SW846 8270C	07/30/07 19:24	07/27/07	DRS	E1
Benzo(a)anthracene	ND	ug/kg	84	SW846 8270C	07/30/07 19:24	07/27/07	DRS	E1
Benzo(a)pyrene	ND	ug/kg	84	SW846 8270C	07/30/07 19:24	07/27/07	DRS	E1
Benzo(b)fluoranthene	ND	ug/kg	84	SW846 8270C	07/30/07 19:24	07/27/07	DRS	E1
Benzo(g,h,i)perylene	ND	ug/kg	84	SW846 8270C	07/30/07 19:24	07/27/07	DRS	E1
Benzo(k)fluoranthene	ND	ug/kg	84	SW846 8270C	07/30/07 19:24	07/27/07	DRS	E1
4-Bromophenyl-phenylether	ND	ug/kg	120	SW846 8270C	07/30/07 19:24	07/27/07	DRS	E1
Butylbenzylphthalate	ND	ug/kg	120	SW846 8270C	07/30/07 19:24	07/27/07	DRS	E1
Carbazole	ND	ug/kg	120	SW846 8270C	07/30/07 19:24	07/27/07	DRS	E1
4-Chloro-3-methylphenol	ND	ug/kg	323	SW846 8270C	07/30/07 19:24	07/27/07	DRS	E1
4-Chloroaniline	ND	ug/kg	323	SW846 8270C	07/30/07 19:24	07/27/07	DRS	E1
Bis(2-Chloroethoxy)methane	ND	ug/kg	120	SW846 8270C	07/30/07 19:24	07/27/07	DRS	E1
Bis(2-Chloroethyl)ether	ND	ug/kg	120	SW846 8270C	07/30/07 19:24	07/27/07	DRS	E1
bis(2-Chloroisopropyl)ether	ND	ug/kg	120	SW846 8270C	07/30/07 19:24	07/27/07	DRS	E1
2-Chloronaphthalene	ND	ug/kg	120	SW846 8270C	07/30/07 19:24	07/27/07	DRS	E1
2-Chlorophenol	ND	ug/kg	323	SW846 8270C	07/30/07 19:24	07/27/07	DRS	E1
4-Chlorophenyl-phenylether	ND	ug/kg	120	SW846 8270C	07/30/07 19:24	07/27/07	DRS	E1
Chrysene	ND	ug/kg	84	SW846 8270C	07/30/07 19:24	07/27/07	DRS	E1



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Page: 5 Of 71

Project Name: **YORK RDA - NORTHWEST TRIANGLE**
Workorder ID: **Soils-8260B, 8270C, PCBs, Metals**

PO#: 07214
COC Number:

Sample ID: **E-SS1[2.5]**

Matrix: Solid

Date Collected: 07/26/07 09:25

Collected by: Mr. Dan Buterbaugh

Analysis Parameter	Result	Units	RDL	Method	Completed	Prep Date	By	Cntr
SEMIVOLATILES (continued)								
mp-Cresol	ND	ug/kg	323	SW846 8270C	07/30/07 19:24	07/27/07	DRS	E1
o-Cresol	ND	ug/kg	323	SW846 8270C	07/30/07 19:24	07/27/07	DRS	E1
Di-n-Butylphthalate	ND	ug/kg	120	SW846 8270C	07/30/07 19:24	07/27/07	DRS	E1
Di-n-Octylphthalate	ND	ug/kg	323	SW846 8270C	07/30/07 19:24	07/27/07	DRS	E1
Dibenzo(a,h)anthracene	ND	ug/kg	84	SW846 8270C	07/30/07 19:24	07/27/07	DRS	E1
Dibenzofuran	ND	ug/kg	120	SW846 8270C	07/30/07 19:24	07/27/07	DRS	E1
1,2-Dichlorobenzene	ND	ug/kg	120	SW846 8270C	07/30/07 19:24	07/27/07	DRS	E1
1,3-Dichlorobenzene	ND	ug/kg	120	SW846 8270C	07/30/07 19:24	07/27/07	DRS	E1
1,4-Dichlorobenzene	ND	ug/kg	120	SW846 8270C	07/30/07 19:24	07/27/07	DRS	E1
3,3-Dichlorobenzidine	ND	ug/kg	120	SW846 8270C	07/30/07 19:24	07/27/07	DRS	E1
2,4-Dichlorophenol	ND	ug/kg	323	SW846 8270C	07/30/07 19:24	07/27/07	DRS	E1
Diethylphthalate	ND	ug/kg	120	SW846 8270C	07/30/07 19:24	07/27/07	DRS	E1
2,4-Dimethylphenol	ND	ug/kg	323	SW846 8270C	07/30/07 19:24	07/27/07	DRS	E1
Dimethylphthalate	ND	ug/kg	120	SW846 8270C	07/30/07 19:24	07/27/07	DRS	E1
2,4-Dinitrophenol	ND	ug/kg	646	SW846 8270C	07/30/07 19:24	07/27/07	DRS	E1
2,4-Dinitrotoluene	ND	ug/kg	120	SW846 8270C	07/30/07 19:24	07/27/07	DRS	E1
2,6-Dinitrotoluene	ND	ug/kg	120	SW846 8270C	07/30/07 19:24	07/27/07	DRS	E1
bis(2-Ethylhexyl)phthalate	ND	ug/kg	120	SW846 8270C	07/30/07 19:24	07/27/07	DRS	E1
Fluoranthene	ND	ug/kg	84	SW846 8270C	07/30/07 19:24	07/27/07	DRS	E1
Fluorene	ND	ug/kg	84	SW846 8270C	07/30/07 19:24	07/27/07	DRS	E1



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Discard: 08/24/07

Page: 6 Of 71

Project Name: **YORK RDA - NORTHWEST TRIANGLE**
Workorder ID: **Soils-8260B, 8270C, PCBs, Metals**

PO#: 07214
COC Number:

Sample ID: **E-SS1[2.5]**

Matrix: Solid

Date Collected: 07/26/07 09:25

Collected by: Mr. Dan Buterbaugh

Analysis Parameter	Result	Units	RDL	Method	Completed	Prep Date	By	Cntr
SEMIVOLATILES (continued)								
Hexachlorobenzene	ND	ug/kg	120	SW846 8270C	07/30/07 19:24	07/27/07	DRS	E1
Hexachlorobutadiene	ND	ug/kg	120	SW846 8270C	07/30/07 19:24	07/27/07	DRS	E1
Hexachlorocyclopentadiene	ND	ug/kg	323	SW846 8270C	07/30/07 19:24	07/27/07	DRS	E1
Hexachloroethane	ND	ug/kg	120	SW846 8270C	07/30/07 19:24	07/27/07	DRS	E1
Indeno(1,2,3-cd)pyrene	ND	ug/kg	84	SW846 8270C	07/30/07 19:24	07/27/07	DRS	E1
Isophorone	ND	ug/kg	120	SW846 8270C	07/30/07 19:24	07/27/07	DRS	E1
2-Methyl-4,6-dinitrophenol	ND	ug/kg	323	SW846 8270C	07/30/07 19:24	07/27/07	DRS	E1
2-Methylnaphthalene	ND	ug/kg	84	SW846 8270C	07/30/07 19:24	07/27/07	DRS	E1
Naphthalene	ND	ug/kg	84	SW846 8270C	07/30/07 19:24	07/27/07	DRS	E1
2-Nitroaniline	ND	ug/kg	120	SW846 8270C	07/30/07 19:24	07/27/07	DRS	E1
3-Nitroaniline	ND	ug/kg	323	SW846 8270C	07/30/07 19:24	07/27/07	DRS	E1
4-Nitroaniline	ND	ug/kg	323	SW846 8270C	07/30/07 19:24	07/27/07	DRS	E1
Nitrobenzene	ND	ug/kg	120	SW846 8270C	07/30/07 19:24	07/27/07	DRS	E1
2-Nitrophenol	ND	ug/kg	323	SW846 8270C	07/30/07 19:24	07/27/07	DRS	E1
4-Nitrophenol	ND	ug/kg	646	SW846 8270C	07/30/07 19:24	07/27/07	DRS	E1
N-Nitroso-di-n-propylamine	ND	ug/kg	120	SW846 8270C	07/30/07 19:24	07/27/07	DRS	E1
N-Nitrosodiphenylamine	ND	ug/kg	120	SW846 8270C	07/30/07 19:24	07/27/07	DRS	E1
Pentachlorophenol	ND	ug/kg	646	SW846 8270C	07/30/07 19:24	07/27/07	DRS	E1
Phenanthrene	ND	ug/kg	84	SW846 8270C	07/30/07 19:24	07/27/07	DRS	E1
Phenol	ND	ug/kg	323	SW846 8270C	07/30/07 19:24	07/27/07	DRS	E1



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Page: 7 Of 71

Project Name: **YORK RDA - NORTHWEST TRIANGLE**
Workorder ID: **Soils-8260B, 8270C, PCBs, Metals**

PO#: 07214
COC Number:

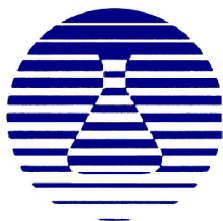
Sample ID: **E-SS1[2.5]**

Matrix: Solid

Date Collected: 07/26/07 09:25

Collected by: Mr. Dan Buterbaugh

Analysis Parameter	Result	Units	RDL	Method	Completed	Prep Date	By	Cntr
SEMIVOLATILES (continued)								
Pyrene	ND	ug/kg	84	SW846 8270C	07/30/07 19:24	07/27/07	DRS	E1
1,2,4-Trichlorobenzene	ND	ug/kg	120	SW846 8270C	07/30/07 19:24	07/27/07	DRS	E1
2,4,5-Trichlorophenol	ND	ug/kg	323	SW846 8270C	07/30/07 19:24	07/27/07	DRS	E1
2,4,6-Trichlorophenol	ND	ug/kg	323	SW846 8270C	07/30/07 19:24	07/27/07	DRS	E1
WET CHEMISTRY								
Moisture	17.8	%	0.1	SM20-2540 G	07/27/07 05:45	07/27/07	KMW	E
Total Solids	82.2	%	0.1	SM20-2540 G	07/27/07 05:45	07/27/07	KMW	E
METALS								
Arsenic, Total	6	mg/kg	2	SW846 6010B	08/07/07 04:56	08/02/07	TED	E2
Barium, Total	60	mg/kg	1	SW846 6010B	08/07/07 04:56	08/02/07	TED	E2
Cadmium, Total	ND	mg/kg	0.5	SW846 6010B	08/07/07 04:56	08/02/07	TED	E2
Chromium, Total	29.5	mg/kg	1	SW846 6010B	08/07/07 04:56	08/02/07	TED	E2
Lead, Total	13	mg/kg	2	SW846 6010B	08/07/07 04:56	08/02/07	TED	E2
Mercury, Total	ND	mg/kg	0.21	SW846 7471B	08/09/07 08:08	08/08/07	CMD	E3
Selenium, Total	ND	mg/kg	5	SW846 6010B	08/07/07 04:56	08/02/07	TED	E2
Silver, Total	ND	mg/kg	0.5	SW846 6010B	08/07/07 04:56	08/02/07	TED	E2



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Lab ID #: **9695451001**
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Discard: 08/24/07

Page: 8 Of 71

Project Name: **YORK RDA - NORTHWEST TRIANGLE**
Workorder ID: **Soils-8260B, 8270C, PCBs, Metals**

PO#: 07214
COC Number:

Sample ID: **E-SS1[2.5]**

Matrix: Solid

Date Collected: 07/26/07 09:25

Collected by: Mr. Dan Buterbaugh

Surrogates	Result	Units	Recovery	Limits
2,4,6-Tribromophenol	2940	ug/kg	90.0%	(24 - 130)
1,2-Dichloroethane-d4	14.9	ug/kg	87.0%	(56 - 124)
Dibromofluoromethane	15.1	ug/kg	88.0%	(62 - 123)
Toluene-d8	15.3	ug/kg	89.0%	(59 - 131)
2-Fluorobiphenyl	1240	ug/kg	75.0%	(40 - 113)
2-Fluorophenol	2840	ug/kg	87.0%	(25 - 110)
Nitrobenzene-d5	1400	ug/kg	85.0%	(36 - 113)
Phenol-d5	2930	ug/kg	89.0%	(28 - 111)
4-Bromofluorobenzene	14	ug/kg	82.0%	(51 - 128)
Terphenyl-d14	1450	ug/kg	89.0%	(35 - 135)

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

Raymond J. Martrano
Laboratory Manager



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Discard: 08/24/07

Page: 9 Of 71

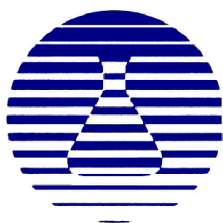
Project Name: **YORK RDA - NORTHWEST TRIANGLE**
Workorder ID: **Soils-8260B, 8270C, PCBs, Metals**

PO#: 07214
COC Number:

Sample ID: **E-SS2[2.0]**
Date Collected: 07/26/07 09:50

Matrix: Solid
Collected by: Mr. Dan Buterbaugh

Analysis Parameter	Result	Units	RDL	Method	Completed	Prep Date	By	Cntr
VOLATILE ORGANICS								
Acetone	26.8	ug/kg	23.1	8260/5035	07/30/07 10:37	07/26/07	JAH	B
Benzene	ND	ug/kg	1.9	8260/5035	07/30/07 10:37	07/26/07	JAH	B
Bromochloromethane	ND	ug/kg	1.9	8260/5035	07/30/07 10:37	07/26/07	JAH	B
Bromodichloromethane	ND	ug/kg	1.9	8260/5035	07/30/07 10:37	07/26/07	JAH	B
Bromoform	ND	ug/kg	1.9	8260/5035	07/30/07 10:37	07/26/07	JAH	B
Bromomethane	ND	ug/kg	3.7	8260/5035	07/30/07 10:37	07/26/07	JAH	B
2-Butanone	ND	ug/kg	9.3	8260/5035	07/30/07 10:37	07/26/07	JAH	B
Carbon Disulfide	ND	ug/kg	1.9	8260/5035	07/30/07 10:37	07/26/07	JAH	B
Carbon Tetrachloride	ND	ug/kg	1.9	8260/5035	07/30/07 10:37	07/26/07	JAH	B
Chlorobenzene	ND	ug/kg	1.9	8260/5035	07/30/07 10:37	07/26/07	JAH	B
Chlorodibromomethane	ND	ug/kg	1.9	8260/5035	07/30/07 10:37	07/26/07	JAH	B
Chloroethane	ND	ug/kg	1.9	8260/5035	07/30/07 10:37	07/26/07	JAH	B
Chloroform	ND	ug/kg	1.9	8260/5035	07/30/07 10:37	07/26/07	JAH	B
Chloromethane	ND	ug/kg	1.9	8260/5035	07/30/07 10:37	07/26/07	JAH	B
1,2-Dibromo-3-chloropropane	ND	ug/kg	3.7	8260/5035	07/30/07 10:37	07/26/07	JAH	B
1,2-Dibromoethane	ND	ug/kg	1.9	8260/5035	07/30/07 10:37	07/26/07	JAH	B
1,1-Dichloroethane	ND	ug/kg	1.9	8260/5035	07/30/07 10:37	07/26/07	JAH	B
1,2-Dichloroethane	ND	ug/kg	1.9	8260/5035	07/30/07 10:37	07/26/07	JAH	B
1,1-Dichloroethene	ND	ug/kg	1.9	8260/5035	07/30/07 10:37	07/26/07	JAH	B
cis-1,2-Dichloroethene	ND	ug/kg	1.9	8260/5035	07/30/07 10:37	07/26/07	JAH	B



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Page: 10 Of 71

Project Name: **YORK RDA - NORTHWEST TRIANGLE**
Workorder ID: **Soils-8260B, 8270C, PCBs, Metals**

PO#: 07214
COC Number:

Sample ID: **E-SS2[2.0]**
Date Collected: 07/26/07 09:50

Matrix: Solid
Collected by: Mr. Dan Buterbaugh

Analysis Parameter	Result	Units	RDL	Method	Completed	Prep Date	By	Cntr
VOLATILE ORGANICS (continued)								
trans-1,2-Dichloroethene	ND	ug/kg	1.9	8260/5035	07/30/07 10:37	07/26/07	JAH	B
1,2-Dichloropropane	ND	ug/kg	1.9	8260/5035	07/30/07 10:37	07/26/07	JAH	B
cis-1,3-Dichloropropene	ND	ug/kg	1.9	8260/5035	07/30/07 10:37	07/26/07	JAH	B
trans-1,3-Dichloropropene	ND	ug/kg	1.9	8260/5035	07/30/07 10:37	07/26/07	JAH	B
Ethylbenzene	ND	ug/kg	1.9	8260/5035	07/30/07 10:37	07/26/07	JAH	B
2-Hexanone	ND	ug/kg	9.3	8260/5035	07/30/07 10:37	07/26/07	JAH	B
4-Methyl-2-Pentanone(MIBK)	ND	ug/kg	9.3	8260/5035	07/30/07 10:37	07/26/07	JAH	B
Methylene Chloride	ND	ug/kg	1.9	8260/5035	07/30/07 10:37	07/26/07	JAH	B
Styrene	ND	ug/kg	1.9	8260/5035	07/30/07 10:37	07/26/07	JAH	B
1,1,2,2-Tetrachloroethane	ND	ug/kg	1.9	8260/5035	07/30/07 10:37	07/26/07	JAH	B
Tetrachloroethene	ND	ug/kg	1.9	8260/5035	07/30/07 10:37	07/26/07	JAH	B
Toluene	ND	ug/kg	1.9	8260/5035	07/30/07 10:37	07/26/07	JAH	B
Total Xylenes	ND	ug/kg	5.6	8260/5035	07/30/07 10:37	07/26/07	JAH	B
1,1,1-Trichloroethane	ND	ug/kg	1.9	8260/5035	07/30/07 10:37	07/26/07	JAH	B
1,1,2-Trichloroethane	ND	ug/kg	1.9	8260/5035	07/30/07 10:37	07/26/07	JAH	B
Trichloroethene	ND	ug/kg	1.9	8260/5035	07/30/07 10:37	07/26/07	JAH	B
Vinyl Chloride	ND	ug/kg	1.9	8260/5035	07/30/07 10:37	07/26/07	JAH	B
o-Xylene	ND	ug/kg	1.9	8260/5035	07/30/07 10:37	07/26/07	JAH	B
mp-Xylene	ND	ug/kg	3.7	8260/5035	07/30/07 10:37	07/26/07	JAH	B



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Page: 11 Of 71

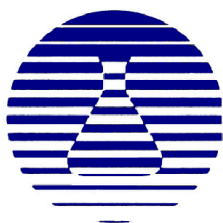
Project Name: **YORK RDA - NORTHWEST TRIANGLE**
Workorder ID: **Soils-8260B, 8270C, PCBs, Metals**

PO#: 07214
COC Number:

Sample ID: **E-SS2[2.0]**
Date Collected: 07/26/07 09:50

Matrix: Solid
Collected by: Mr. Dan Buterbaugh

Analysis Parameter	Result	Units	RDL	Method	Completed	Prep Date	By	Cntr
SEMIVOLATILES								
Acenaphthene	ND	ug/kg	72	SW846 8270C	07/30/07 20:13	07/27/07	DRS	E1
Acenaphthylene	ND	ug/kg	72	SW846 8270C	07/30/07 20:13	07/27/07	DRS	E1
Anthracene	ND	ug/kg	72	SW846 8270C	07/30/07 20:13	07/27/07	DRS	E1
Benzo(a)anthracene	ND	ug/kg	72	SW846 8270C	07/30/07 20:13	07/27/07	DRS	E1
Benzo(a)pyrene	ND	ug/kg	72	SW846 8270C	07/30/07 20:13	07/27/07	DRS	E1
Benzo(b)fluoranthene	ND	ug/kg	72	SW846 8270C	07/30/07 20:13	07/27/07	DRS	E1
Benzo(g,h,i)perylene	ND	ug/kg	72	SW846 8270C	07/30/07 20:13	07/27/07	DRS	E1
Benzo(k)fluoranthene	ND	ug/kg	72	SW846 8270C	07/30/07 20:13	07/27/07	DRS	E1
4-Bromophenyl-phenylether	ND	ug/kg	102	SW846 8270C	07/30/07 20:13	07/27/07	DRS	E1
Butylbenzylphthalate	ND	ug/kg	102	SW846 8270C	07/30/07 20:13	07/27/07	DRS	E1
Carbazole	ND	ug/kg	102	SW846 8270C	07/30/07 20:13	07/27/07	DRS	E1
4-Chloro-3-methylphenol	ND	ug/kg	277	SW846 8270C	07/30/07 20:13	07/27/07	DRS	E1
4-Chloroaniline	ND	ug/kg	277	SW846 8270C	07/30/07 20:13	07/27/07	DRS	E1
Bis(2-Chloroethoxy)methane	ND	ug/kg	102	SW846 8270C	07/30/07 20:13	07/27/07	DRS	E1
Bis(2-Chloroethyl)ether	ND	ug/kg	102	SW846 8270C	07/30/07 20:13	07/27/07	DRS	E1
bis(2-Chloroisopropyl)ether	ND	ug/kg	102	SW846 8270C	07/30/07 20:13	07/27/07	DRS	E1
2-Chloronaphthalene	ND	ug/kg	102	SW846 8270C	07/30/07 20:13	07/27/07	DRS	E1
2-Chlorophenol	ND	ug/kg	277	SW846 8270C	07/30/07 20:13	07/27/07	DRS	E1
4-Chlorophenyl-phenylether	ND	ug/kg	102	SW846 8270C	07/30/07 20:13	07/27/07	DRS	E1
Chrysene	ND	ug/kg	72	SW846 8270C	07/30/07 20:13	07/27/07	DRS	E1



Certificate of Analysis

August 10, 2007

Mr. Dan Buterbaugh
ARM Group Inc.
1129 W. Governor Road
Hershey, PA 17033

Lab ID #: **9695451002**
Received: 07/26/07 16:15
Discard: 08/24/07

Page: 12 Of 71

Project Name: **YORK RDA - NORTHWEST TRIANGLE**
Workorder ID: **Soils-8260B, 8270C, PCBs, Metals**

PO#: 07214
COC Number:

Sample ID: **E-SS2[2.0]**

Matrix: Solid

Date Collected: 07/26/07 09:50

Collected by: Mr. Dan Buterbaugh

Analysis Parameter	Result	Units	RDL	Method	Completed	Prep Date	By	Cntr
SEMIVOLATILES (continued)								
mp-Cresol	ND	ug/kg	277	SW846 8270C	07/30/07 20:13	07/27/07	DRS	E1
o-Cresol	ND	ug/kg	277	SW846 8270C	07/30/07 20:13	07/27/07	DRS	E1
Di-n-Butylphthalate	ND	ug/kg	102	SW846 8270C	07/30/07 20:13	07/27/07	DRS	E1
Di-n-Octylphthalate	ND	ug/kg	277	SW846 8270C	07/30/07 20:13	07/27/07	DRS	E1
Dibenzo(a,h)anthracene	ND	ug/kg	72	SW846 8270C	07/30/07 20:13	07/27/07	DRS	E1
Dibenzofuran	ND	ug/kg	102	SW846 8270C	07/30/07 20:13	07/27/07	DRS	E1
1,2-Dichlorobenzene	ND	ug/kg	102	SW846 8270C	07/30/07 20:13	07/27/07	DRS	E1
1,3-Dichlorobenzene	ND	ug/kg	102	SW846 8270C	07/30/07 20:13	07/27/07	DRS	E1
1,4-Dichlorobenzene	ND	ug/kg	102	SW846 8270C	07/30/07 20:13	07/27/07	DRS	E1
3,3-Dichlorobenzidine	ND	ug/kg	102	SW846 8270C	07/30/07 20:13	07/27/07	DRS	E1
2,4-Dichlorophenol	ND	ug/kg	277	SW846 8270C	07/30/07 20:13	07/27/07	DRS	E1
Diethylphthalate	ND	ug/kg	102	SW846 8270C	07/30/07 20:13	07/27/07	DRS	E1
2,4-Dimethylphenol	ND	ug/kg	277	SW846 8270C	07/30/07 20:13	07/27/07	DRS	E1
Dimethylphthalate	ND	ug/kg	102	SW846 8270C	07/30/07 20:13	07/27/07	DRS	E1
2,4-Dinitrophenol	ND	ug/kg	553	SW846 8270C	07/30/07 20:13	07/27/07	DRS	E1
2,4-Dinitrotoluene	ND	ug/kg	102	SW846 8270C	07/30/07 20:13	07/27/07	DRS	E1
2,6-Dinitrotoluene	ND	ug/kg	102	SW846 8270C	07/30/07 20:13	07/27/07	DRS	E1
bis(2-Ethylhexyl)phthalate	ND	ug/kg	102	SW846 8270C	07/30/07 20:13	07/27/07	DRS	E1
Fluoranthene	ND	ug/kg	72	SW846 8270C	07/30/07 20:13	07/27/07	DRS	E1
Fluorene	ND	ug/kg	72	SW846 8270C	07/30/07 20:13	07/27/07	DRS	E1



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Page: 13 Of 71

Project Name: **YORK RDA - NORTHWEST TRIANGLE**
Workorder ID: **Soils-8260B, 8270C, PCBs, Metals**

PO#: 07214
COC Number:

Sample ID: **E-SS2[2.0]**
Date Collected: 07/26/07 09:50

Matrix: Solid
Collected by: Mr. Dan Buterbaugh

Analysis Parameter	Result	Units	RDL	Method	Completed	Prep Date	By	Cntr
SEMIVOLATILES (continued)								
Hexachlorobenzene	ND	ug/kg	102	SW846 8270C	07/30/07 20:13	07/27/07	DRS	E1
Hexachlorobutadiene	ND	ug/kg	102	SW846 8270C	07/30/07 20:13	07/27/07	DRS	E1
Hexachlorocyclopentadiene	ND	ug/kg	277	SW846 8270C	07/30/07 20:13	07/27/07	DRS	E1
Hexachloroethane	ND	ug/kg	102	SW846 8270C	07/30/07 20:13	07/27/07	DRS	E1
Indeno(1,2,3-cd)pyrene	ND	ug/kg	72	SW846 8270C	07/30/07 20:13	07/27/07	DRS	E1
Isophorone	ND	ug/kg	102	SW846 8270C	07/30/07 20:13	07/27/07	DRS	E1
2-Methyl-4,6-dinitrophenol	ND	ug/kg	277	SW846 8270C	07/30/07 20:13	07/27/07	DRS	E1
2-Methylnaphthalene	ND	ug/kg	72	SW846 8270C	07/30/07 20:13	07/27/07	DRS	E1
Naphthalene	ND	ug/kg	72	SW846 8270C	07/30/07 20:13	07/27/07	DRS	E1
2-Nitroaniline	ND	ug/kg	102	SW846 8270C	07/30/07 20:13	07/27/07	DRS	E1
3-Nitroaniline	ND	ug/kg	277	SW846 8270C	07/30/07 20:13	07/27/07	DRS	E1
4-Nitroaniline	ND	ug/kg	277	SW846 8270C	07/30/07 20:13	07/27/07	DRS	E1
Nitrobenzene	ND	ug/kg	102	SW846 8270C	07/30/07 20:13	07/27/07	DRS	E1
2-Nitrophenol	ND	ug/kg	277	SW846 8270C	07/30/07 20:13	07/27/07	DRS	E1
4-Nitrophenol	ND	ug/kg	553	SW846 8270C	07/30/07 20:13	07/27/07	DRS	E1
N-Nitroso-di-n-propylamine	ND	ug/kg	102	SW846 8270C	07/30/07 20:13	07/27/07	DRS	E1
N-Nitrosodiphenylamine	ND	ug/kg	102	SW846 8270C	07/30/07 20:13	07/27/07	DRS	E1
Pentachlorophenol	ND	ug/kg	553	SW846 8270C	07/30/07 20:13	07/27/07	DRS	E1
Phenanthrene	ND	ug/kg	72	SW846 8270C	07/30/07 20:13	07/27/07	DRS	E1
Phenol	ND	ug/kg	277	SW846 8270C	07/30/07 20:13	07/27/07	DRS	E1



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Page: 14 Of 71

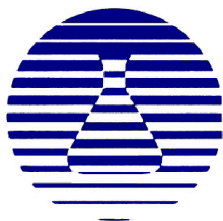
Project Name: **YORK RDA - NORTHWEST TRIANGLE**
Workorder ID: **Soils-8260B,8270C,PCBs,Metals**

PO#: 07214
COC Number:

Sample ID: **E-SS2[2.0]**
Date Collected: 07/26/07 09:50

Matrix: Solid
Collected by: Mr. Dan Buterbaugh

Analysis Parameter	Result	Units	RDL	Method	Completed	Prep Date	By	Cntr
SEMIVOLATILES (continued)								
Pyrene	ND	ug/kg	72	SW846 8270C	07/30/07 20:13	07/27/07	DRS	E1
1,2,4-Trichlorobenzene	ND	ug/kg	102	SW846 8270C	07/30/07 20:13	07/27/07	DRS	E1
2,4,5-Trichlorophenol	ND	ug/kg	277	SW846 8270C	07/30/07 20:13	07/27/07	DRS	E1
2,4,6-Trichlorophenol	ND	ug/kg	277	SW846 8270C	07/30/07 20:13	07/27/07	DRS	E1
WET CHEMISTRY								
Moisture	3.0	%	0.1	SM20-2540 G	07/27/07 05:45	07/27/07	KMW	E
Total Solids	97.0	%	0.1	SM20-2540 G	07/27/07 05:45	07/27/07	KMW	E
METALS								
Arsenic, Total	9	mg/kg	2	SW846 6010B	08/07/07 05:25	08/02/07	TED	E2
Barium, Total	62	mg/kg	0.8	SW846 6010B	08/07/07 05:25	08/02/07	TED	E2
Cadmium, Total	ND	mg/kg	0.4	SW846 6010B	08/07/07 05:25	08/02/07	TED	E2
Chromium, Total	19.7	mg/kg	0.8	SW846 6010B	08/07/07 05:25	08/02/07	TED	E2
Lead, Total	25	mg/kg	2	SW846 6010B	08/07/07 05:25	08/02/07	TED	E2
Mercury, Total	ND	mg/kg	0.19	SW846 7471B	08/09/07 08:22	08/08/07	CMD	E3
Selenium, Total	ND	mg/kg	4	SW846 6010B	08/07/07 05:25	08/02/07	TED	E2
Silver, Total	ND	mg/kg	0.4	SW846 6010B	08/07/07 05:25	08/02/07	TED	E2



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1129 W. Governor Road
Hershey, PA 17033

Lab ID #: **9695451002**
Received: 07/26/07 16:15
Discard: 08/24/07

Page: 15 Of 71

Project Name: **YORK RDA - NORTHWEST TRIANGLE**
Workorder ID: **Soils-8260B, 8270C, PCBs, Metals**

PO#: 07214
COC Number:

Sample ID: **E-SS2[2.0]**

Matrix: Solid

Date Collected: 07/26/07 09:50

Collected by: Mr. Dan Buterbaugh

Surrogates	Result	Units	Recovery	Limits
2,4,6-Tribromophenol	3370	ug/kg	102.0%	(24 - 130)
1,2-Dichloroethane-d4	22.8	ug/kg	85.0%	(56 - 124)
Dibromofluoromethane	23.5	ug/kg	87.0%	(62 - 123)
Toluene-d8	24.5	ug/kg	91.0%	(59 - 131)
2-Fluorobiphenyl	1540	ug/kg	93.0%	(40 - 113)
2-Fluorophenol	3180	ug/kg	96.0%	(25 - 110)
Nitrobenzene-d5	1820	ug/kg	110.0%	(36 - 113)
Phenol-d5	3540	ug/kg	107.0%	(28 - 111)
4-Bromofluorobenzene	22.2	ug/kg	82.0%	(51 - 128)
Terphenyl-d14	1850	ug/kg	112.0%	(35 - 135)

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

Raymond J. Martrano
Laboratory Manager



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1129 W. Governor Road
Hershey, PA 17033

Lab ID #: **9695451003**
Received: 07/26/07 16:15
Discard: 08/24/07

Page: 16 Of 71

Project Name: **YORK RDA - NORTHWEST TRIANGLE**
Workorder ID: **Soils-8260B, 8270C, PCBs, Metals**

PO#: 07214
COC Number:

Sample ID: **E-SS3[2.5]**
Date Collected: 07/26/07 10:15

Matrix: Solid
Collected by: Mr. Dan Buterbaugh

Analysis Parameter	Result	Units	RDL	Method	Completed	Prep Date	By	Cntr
VOLATILE ORGANICS								
Acetone	ND	ug/kg	24.0	8260/5035	07/30/07 11:08	07/26/07	JAH	B
Benzene	ND	ug/kg	1.9	8260/5035	07/30/07 11:08	07/26/07	JAH	B
Bromochloromethane	ND	ug/kg	1.9	8260/5035	07/30/07 11:08	07/26/07	JAH	B
Bromodichloromethane	ND	ug/kg	1.9	8260/5035	07/30/07 11:08	07/26/07	JAH	B
Bromoform	ND	ug/kg	1.9	8260/5035	07/30/07 11:08	07/26/07	JAH	B
Bromomethane	ND	ug/kg	3.8	8260/5035	07/30/07 11:08	07/26/07	JAH	B
2-Butanone	ND	ug/kg	9.6	8260/5035	07/30/07 11:08	07/26/07	JAH	B
Carbon Disulfide	ND	ug/kg	1.9	8260/5035	07/30/07 11:08	07/26/07	JAH	B
Carbon Tetrachloride	ND	ug/kg	1.9	8260/5035	07/30/07 11:08	07/26/07	JAH	B
Chlorobenzene	ND	ug/kg	1.9	8260/5035	07/30/07 11:08	07/26/07	JAH	B
Chlorodibromomethane	ND	ug/kg	1.9	8260/5035	07/30/07 11:08	07/26/07	JAH	B
Chloroethane	ND	ug/kg	1.9	8260/5035	07/30/07 11:08	07/26/07	JAH	B
Chloroform	ND	ug/kg	1.9	8260/5035	07/30/07 11:08	07/26/07	JAH	B
Chloromethane	ND	ug/kg	1.9	8260/5035	07/30/07 11:08	07/26/07	JAH	B
1,2-Dibromo-3-chloropropane	ND	ug/kg	3.8	8260/5035	07/30/07 11:08	07/26/07	JAH	B
1,2-Dibromoethane	ND	ug/kg	1.9	8260/5035	07/30/07 11:08	07/26/07	JAH	B
1,1-Dichloroethane	ND	ug/kg	1.9	8260/5035	07/30/07 11:08	07/26/07	JAH	B
1,2-Dichloroethane	ND	ug/kg	1.9	8260/5035	07/30/07 11:08	07/26/07	JAH	B
1,1-Dichloroethene	ND	ug/kg	1.9	8260/5035	07/30/07 11:08	07/26/07	JAH	B
cis-1,2-Dichloroethene	ND	ug/kg	1.9	8260/5035	07/30/07 11:08	07/26/07	JAH	B



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Page: 17 Of 71

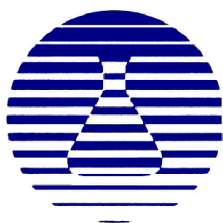
Project Name: **YORK RDA - NORTHWEST TRIANGLE**
Workorder ID: **Soils-8260B, 8270C, PCBs, Metals**

PO#: 07214
COC Number:

Sample ID: **E-SS3[2.5]**
Date Collected: 07/26/07 10:15

Matrix: Solid
Collected by: Mr. Dan Buterbaugh

Analysis Parameter	Result	Units	RDL	Method	Completed	Prep Date	By	Cntr
VOLATILE ORGANICS (continued)								
trans-1,2-Dichloroethene	ND	ug/kg	1.9	8260/5035	07/30/07 11:08	07/26/07	JAH	B
1,2-Dichloropropane	ND	ug/kg	1.9	8260/5035	07/30/07 11:08	07/26/07	JAH	B
cis-1,3-Dichloropropene	ND	ug/kg	1.9	8260/5035	07/30/07 11:08	07/26/07	JAH	B
trans-1,3-Dichloropropene	ND	ug/kg	1.9	8260/5035	07/30/07 11:08	07/26/07	JAH	B
Ethylbenzene	ND	ug/kg	1.9	8260/5035	07/30/07 11:08	07/26/07	JAH	B
2-Hexanone	ND	ug/kg	9.6	8260/5035	07/30/07 11:08	07/26/07	JAH	B
4-Methyl-2-Pentanone(MIBK)	ND	ug/kg	9.6	8260/5035	07/30/07 11:08	07/26/07	JAH	B
Methylene Chloride	ND	ug/kg	1.9	8260/5035	07/30/07 11:08	07/26/07	JAH	B
Styrene	ND	ug/kg	1.9	8260/5035	07/30/07 11:08	07/26/07	JAH	B
1,1,2,2-Tetrachloroethane	ND	ug/kg	1.9	8260/5035	07/30/07 11:08	07/26/07	JAH	B
Tetrachloroethene	ND	ug/kg	1.9	8260/5035	07/30/07 11:08	07/26/07	JAH	B
Toluene	ND	ug/kg	1.9	8260/5035	07/30/07 11:08	07/26/07	JAH	B
Total Xylenes	ND	ug/kg	5.8	8260/5035	07/30/07 11:08	07/26/07	JAH	B
1,1,1-Trichloroethane	ND	ug/kg	1.9	8260/5035	07/30/07 11:08	07/26/07	JAH	B
1,1,2-Trichloroethane	ND	ug/kg	1.9	8260/5035	07/30/07 11:08	07/26/07	JAH	B
Trichloroethene	ND	ug/kg	1.9	8260/5035	07/30/07 11:08	07/26/07	JAH	B
Vinyl Chloride	ND	ug/kg	1.9	8260/5035	07/30/07 11:08	07/26/07	JAH	B
o-Xylene	ND	ug/kg	1.9	8260/5035	07/30/07 11:08	07/26/07	JAH	B
mp-Xylene	ND	ug/kg	3.8	8260/5035	07/30/07 11:08	07/26/07	JAH	B



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Page: 18 Of 71

Project Name: **YORK RDA - NORTHWEST TRIANGLE**
Workorder ID: **Soils-8260B, 8270C, PCBs, Metals**

PO#: 07214
COC Number:

Sample ID: **E-SS3[2.5]**
Date Collected: 07/26/07 10:15

Matrix: Solid
Collected by: Mr. Dan Buterbaugh

Analysis Parameter	Result	Units	RDL	Method	Completed	Prep Date	By	Cntr
SEMIVOLATILES								
Acenaphthene	ND	ug/kg	87	SW846 8270C	07/30/07 21:03	07/27/07	DRS	E1
Acenaphthylene	ND	ug/kg	87	SW846 8270C	07/30/07 21:03	07/27/07	DRS	E1
Anthracene	ND	ug/kg	87	SW846 8270C	07/30/07 21:03	07/27/07	DRS	E1
Benzo(a)anthracene	ND	ug/kg	87	SW846 8270C	07/30/07 21:03	07/27/07	DRS	E1
Benzo(a)pyrene	ND	ug/kg	87	SW846 8270C	07/30/07 21:03	07/27/07	DRS	E1
Benzo(b)fluoranthene	ND	ug/kg	87	SW846 8270C	07/30/07 21:03	07/27/07	DRS	E1
Benzo(g,h,i)perylene	ND	ug/kg	87	SW846 8270C	07/30/07 21:03	07/27/07	DRS	E1
Benzo(k)fluoranthene	ND	ug/kg	87	SW846 8270C	07/30/07 21:03	07/27/07	DRS	E1
4-Bromophenyl-phenylether	ND	ug/kg	125	SW846 8270C	07/30/07 21:03	07/27/07	DRS	E1
Butylbenzylphthalate	ND	ug/kg	125	SW846 8270C	07/30/07 21:03	07/27/07	DRS	E1
Carbazole	ND	ug/kg	125	SW846 8270C	07/30/07 21:03	07/27/07	DRS	E1
4-Chloro-3-methylphenol	ND	ug/kg	337	SW846 8270C	07/30/07 21:03	07/27/07	DRS	E1
4-Chloroaniline	ND	ug/kg	337	SW846 8270C	07/30/07 21:03	07/27/07	DRS	E1
Bis(2-Chloroethoxy)methane	ND	ug/kg	125	SW846 8270C	07/30/07 21:03	07/27/07	DRS	E1
Bis(2-Chloroethyl)ether	ND	ug/kg	125	SW846 8270C	07/30/07 21:03	07/27/07	DRS	E1
bis(2-Chloroisopropyl)ether	ND	ug/kg	125	SW846 8270C	07/30/07 21:03	07/27/07	DRS	E1
2-Chloronaphthalene	ND	ug/kg	125	SW846 8270C	07/30/07 21:03	07/27/07	DRS	E1
2-Chlorophenol	ND	ug/kg	337	SW846 8270C	07/30/07 21:03	07/27/07	DRS	E1
4-Chlorophenyl-phenylether	ND	ug/kg	125	SW846 8270C	07/30/07 21:03	07/27/07	DRS	E1
Chrysene	ND	ug/kg	87	SW846 8270C	07/30/07 21:03	07/27/07	DRS	E1



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Page: 19 Of 71

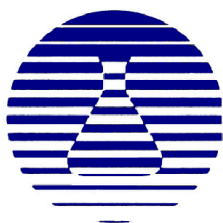
Project Name: **YORK RDA - NORTHWEST TRIANGLE**
Workorder ID: **Soils-8260B, 8270C, PCBs, Metals**

PO#: 07214
COC Number:

Sample ID: **E-SS3[2.5]**
Date Collected: 07/26/07 10:15

Matrix: Solid
Collected by: Mr. Dan Buterbaugh

Analysis Parameter	Result	Units	RDL	Method	Completed	Prep Date	By	Cntr
SEMIVOLATILES (continued)								
mp-Cresol	ND	ug/kg	337	SW846 8270C	07/30/07 21:03	07/27/07	DRS	E1
o-Cresol	ND	ug/kg	337	SW846 8270C	07/30/07 21:03	07/27/07	DRS	E1
Di-n-Butylphthalate	ND	ug/kg	125	SW846 8270C	07/30/07 21:03	07/27/07	DRS	E1
Di-n-Octylphthalate	ND	ug/kg	337	SW846 8270C	07/30/07 21:03	07/27/07	DRS	E1
Dibenzo(a,h)anthracene	ND	ug/kg	87	SW846 8270C	07/30/07 21:03	07/27/07	DRS	E1
Dibenzofuran	ND	ug/kg	125	SW846 8270C	07/30/07 21:03	07/27/07	DRS	E1
1,2-Dichlorobenzene	ND	ug/kg	125	SW846 8270C	07/30/07 21:03	07/27/07	DRS	E1
1,3-Dichlorobenzene	ND	ug/kg	125	SW846 8270C	07/30/07 21:03	07/27/07	DRS	E1
1,4-Dichlorobenzene	ND	ug/kg	125	SW846 8270C	07/30/07 21:03	07/27/07	DRS	E1
3,3-Dichlorobenzidine	ND	ug/kg	125	SW846 8270C	07/30/07 21:03	07/27/07	DRS	E1
2,4-Dichlorophenol	ND	ug/kg	337	SW846 8270C	07/30/07 21:03	07/27/07	DRS	E1
Diethylphthalate	ND	ug/kg	125	SW846 8270C	07/30/07 21:03	07/27/07	DRS	E1
2,4-Dimethylphenol	ND	ug/kg	337	SW846 8270C	07/30/07 21:03	07/27/07	DRS	E1
Dimethylphthalate	ND	ug/kg	125	SW846 8270C	07/30/07 21:03	07/27/07	DRS	E1
2,4-Dinitrophenol	ND	ug/kg	674	SW846 8270C	07/30/07 21:03	07/27/07	DRS	E1
2,4-Dinitrotoluene	ND	ug/kg	125	SW846 8270C	07/30/07 21:03	07/27/07	DRS	E1
2,6-Dinitrotoluene	ND	ug/kg	125	SW846 8270C	07/30/07 21:03	07/27/07	DRS	E1
bis(2-Ethylhexyl)phthalate	ND	ug/kg	125	SW846 8270C	07/30/07 21:03	07/27/07	DRS	E1
Fluoranthene	ND	ug/kg	87	SW846 8270C	07/30/07 21:03	07/27/07	DRS	E1
Fluorene	ND	ug/kg	87	SW846 8270C	07/30/07 21:03	07/27/07	DRS	E1



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August 10, 2007

Mr. Dan Buterbaugh
ARM Group Inc.
1129 W. Governor Road
Hershey, PA 17033

Lab ID #: **9695451003**
Received: 07/26/07 16:15
Discard: 08/24/07

Page: 20 Of 71

Project Name: **YORK RDA - NORTHWEST TRIANGLE**
Workorder ID: **Soils-8260B, 8270C, PCBs, Metals**

PO#: 07214
COC Number:

Sample ID: **E-SS3[2.5]**
Date Collected: 07/26/07 10:15

Matrix: Solid
Collected by: Mr. Dan Buterbaugh

Analysis Parameter	Result	Units	RDL	Method	Completed	Prep Date	By	Cntr
SEMIVOLATILES (continued)								
Hexachlorobenzene	ND	ug/kg	125	SW846 8270C	07/30/07 21:03	07/27/07	DRS	E1
Hexachlorobutadiene	ND	ug/kg	125	SW846 8270C	07/30/07 21:03	07/27/07	DRS	E1
Hexachlorocyclopentadiene	ND	ug/kg	337	SW846 8270C	07/30/07 21:03	07/27/07	DRS	E1
Hexachloroethane	ND	ug/kg	125	SW846 8270C	07/30/07 21:03	07/27/07	DRS	E1
Indeno(1,2,3-cd)pyrene	ND	ug/kg	87	SW846 8270C	07/30/07 21:03	07/27/07	DRS	E1
Isophorone	ND	ug/kg	125	SW846 8270C	07/30/07 21:03	07/27/07	DRS	E1
2-Methyl-4,6-dinitrophenol	ND	ug/kg	337	SW846 8270C	07/30/07 21:03	07/27/07	DRS	E1
2-Methylnaphthalene	ND	ug/kg	87	SW846 8270C	07/30/07 21:03	07/27/07	DRS	E1
Naphthalene	ND	ug/kg	87	SW846 8270C	07/30/07 21:03	07/27/07	DRS	E1
2-Nitroaniline	ND	ug/kg	125	SW846 8270C	07/30/07 21:03	07/27/07	DRS	E1
3-Nitroaniline	ND	ug/kg	337	SW846 8270C	07/30/07 21:03	07/27/07	DRS	E1
4-Nitroaniline	ND	ug/kg	337	SW846 8270C	07/30/07 21:03	07/27/07	DRS	E1
Nitrobenzene	ND	ug/kg	125	SW846 8270C	07/30/07 21:03	07/27/07	DRS	E1
2-Nitrophenol	ND	ug/kg	337	SW846 8270C	07/30/07 21:03	07/27/07	DRS	E1
4-Nitrophenol	ND	ug/kg	674	SW846 8270C	07/30/07 21:03	07/27/07	DRS	E1
N-Nitroso-di-n-propylamine	ND	ug/kg	125	SW846 8270C	07/30/07 21:03	07/27/07	DRS	E1
N-Nitrosodiphenylamine	ND	ug/kg	125	SW846 8270C	07/30/07 21:03	07/27/07	DRS	E1
Pentachlorophenol	ND	ug/kg	674	SW846 8270C	07/30/07 21:03	07/27/07	DRS	E1
Phenanthrene	ND	ug/kg	87	SW846 8270C	07/30/07 21:03	07/27/07	DRS	E1
Phenol	ND	ug/kg	337	SW846 8270C	07/30/07 21:03	07/27/07	DRS	E1



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Page: 21 Of 71

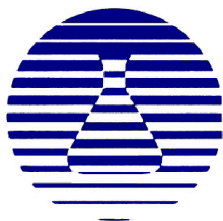
Project Name: **YORK RDA - NORTHWEST TRIANGLE**
Workorder ID: **Soils-8260B,8270C,PCBs,Metals**

PO#: 07214
COC Number:

Sample ID: **E-SS3[2.5]**
Date Collected: 07/26/07 10:15

Matrix: Solid
Collected by: Mr. Dan Buterbaugh

Analysis Parameter	Result	Units	RDL	Method	Completed	Prep Date	By	Cntr
SEMIVOLATILES (continued)								
Pyrene	ND	ug/kg	87	SW846 8270C	07/30/07 21:03	07/27/07	DRS	E1
1,2,4-Trichlorobenzene	ND	ug/kg	125	SW846 8270C	07/30/07 21:03	07/27/07	DRS	E1
2,4,5-Trichlorophenol	ND	ug/kg	337	SW846 8270C	07/30/07 21:03	07/27/07	DRS	E1
2,4,6-Trichlorophenol	ND	ug/kg	337	SW846 8270C	07/30/07 21:03	07/27/07	DRS	E1
WET CHEMISTRY								
Moisture	21.4	%	0.1	SM20-2540 G	07/27/07 05:45	07/27/07	KMW	E
Total Solids	78.6	%	0.1	SM20-2540 G	07/27/07 05:45	07/27/07	KMW	E
METALS								
Arsenic, Total	9	mg/kg	2	SW846 6010B	08/07/07 05:30	08/02/07	TED	E2
Barium, Total	100	mg/kg	1	SW846 6010B	08/07/07 05:30	08/02/07	TED	E2
Cadmium, Total	ND	mg/kg	0.5	SW846 6010B	08/07/07 05:30	08/02/07	TED	E2
Chromium, Total	40.2	mg/kg	1	SW846 6010B	08/07/07 05:30	08/02/07	TED	E2
Lead, Total	17	mg/kg	2	SW846 6010B	08/07/07 05:30	08/02/07	TED	E2
Mercury, Total	ND	mg/kg	0.22	SW846 7471B	08/09/07 08:26	08/08/07	CMD	E3
Selenium, Total	ND	mg/kg	5	SW846 6010B	08/07/07 05:30	08/02/07	TED	E2
Silver, Total	ND	mg/kg	0.5	SW846 6010B	08/07/07 05:30	08/02/07	TED	E2



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Received: 07/26/07 16:15
Discard: 08/24/07

Page: 22 Of 71

Project Name: **YORK RDA - NORTHWEST TRIANGLE**
Workorder ID: **Soils-8260B, 8270C, PCBs, Metals**

PO#: 07214
COC Number:

Sample ID: **E-SS3[2.5]**

Matrix: Solid

Date Collected: 07/26/07 10:15

Collected by: Mr. Dan Buterbaugh

Surrogates	Result	Units	Recovery	Limits
2,4,6-Tribromophenol	2690	ug/kg	82.0%	(24 - 130)
1,2-Dichloroethane-d4	20.4	ug/kg	90.0%	(56 - 124)
Dibromofluoromethane	20.1	ug/kg	89.0%	(62 - 123)
Toluene-d8	20.9	ug/kg	92.0%	(59 - 131)
2-Fluorobiphenyl	1170	ug/kg	72.0%	(40 - 113)
2-Fluorophenol	2600	ug/kg	80.0%	(25 - 110)
Nitrobenzene-d5	1300	ug/kg	80.0%	(36 - 113)
Phenol-d5	2710	ug/kg	83.0%	(28 - 111)
4-Bromofluorobenzene	19.4	ug/kg	85.0%	(51 - 128)
Terphenyl-d14	1400	ug/kg	86.0%	(35 - 135)

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

Raymond J. Martrano
Laboratory Manager



Certificate of Analysis

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Lab ID #: **9695451004**
Received: 07/26/07 16:15
Discard: 08/24/07

Page: 23 Of 71

Project Name: **YORK RDA - NORTHWEST TRIANGLE**
Workorder ID: **Soils-8260B, 8270C, PCBs, Metals**

PO#: 07214
COC Number:

Sample ID: **E-SS4[2.0]**
Date Collected: 07/26/07 11:00

Matrix: Solid
Collected by: Mr. Dan Buterbaugh

Analysis Parameter	Result	Units	RDL	Method	Completed	Prep Date	By	Cntr
VOLATILE ORGANICS								
Acetone	30.0	ug/kg	23.8	8260/5035	07/30/07 11:39	07/26/07	JAH	B
Benzene	ND	ug/kg	1.9	8260/5035	07/30/07 11:39	07/26/07	JAH	B
Bromochloromethane	ND	ug/kg	1.9	8260/5035	07/30/07 11:39	07/26/07	JAH	B
Bromodichloromethane	ND	ug/kg	1.9	8260/5035	07/30/07 11:39	07/26/07	JAH	B
Bromoform	ND	ug/kg	1.9	8260/5035	07/30/07 11:39	07/26/07	JAH	B
Bromomethane	ND	ug/kg	3.8	8260/5035	07/30/07 11:39	07/26/07	JAH	B
2-Butanone	ND	ug/kg	9.5	8260/5035	07/30/07 11:39	07/26/07	JAH	B
Carbon Disulfide	ND	ug/kg	1.9	8260/5035	07/30/07 11:39	07/26/07	JAH	B
Carbon Tetrachloride	ND	ug/kg	1.9	8260/5035	07/30/07 11:39	07/26/07	JAH	B
Chlorobenzene	ND	ug/kg	1.9	8260/5035	07/30/07 11:39	07/26/07	JAH	B
Chlorodibromomethane	ND	ug/kg	1.9	8260/5035	07/30/07 11:39	07/26/07	JAH	B
Chloroethane	ND	ug/kg	1.9	8260/5035	07/30/07 11:39	07/26/07	JAH	B
Chloroform	ND	ug/kg	1.9	8260/5035	07/30/07 11:39	07/26/07	JAH	B
Chloromethane	ND	ug/kg	1.9	8260/5035	07/30/07 11:39	07/26/07	JAH	B
1,2-Dibromo-3-chloropropane	ND	ug/kg	3.8	8260/5035	07/30/07 11:39	07/26/07	JAH	B
1,2-Dibromoethane	ND	ug/kg	1.9	8260/5035	07/30/07 11:39	07/26/07	JAH	B
1,1-Dichloroethane	ND	ug/kg	1.9	8260/5035	07/30/07 11:39	07/26/07	JAH	B
1,2-Dichloroethane	ND	ug/kg	1.9	8260/5035	07/30/07 11:39	07/26/07	JAH	B
1,1-Dichloroethene	ND	ug/kg	1.9	8260/5035	07/30/07 11:39	07/26/07	JAH	B
cis-1,2-Dichloroethene	ND	ug/kg	1.9	8260/5035	07/30/07 11:39	07/26/07	JAH	B



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Page: 24 Of 71

Project Name: **YORK RDA - NORTHWEST TRIANGLE**
Workorder ID: **Soils-8260B, 8270C, PCBs, Metals**

PO#: 07214
COC Number:

Sample ID: **E-SS4[2.0]**
Date Collected: 07/26/07 11:00

Matrix: Solid
Collected by: Mr. Dan Buterbaugh

Analysis Parameter	Result	Units	RDL	Method	Completed	Prep Date	By	Cntr
VOLATILE ORGANICS (continued)								
trans-1,2-Dichloroethene	ND	ug/kg	1.9	8260/5035	07/30/07 11:39	07/26/07	JAH	B
1,2-Dichloropropane	ND	ug/kg	1.9	8260/5035	07/30/07 11:39	07/26/07	JAH	B
cis-1,3-Dichloropropene	ND	ug/kg	1.9	8260/5035	07/30/07 11:39	07/26/07	JAH	B
trans-1,3-Dichloropropene	ND	ug/kg	1.9	8260/5035	07/30/07 11:39	07/26/07	JAH	B
Ethylbenzene	ND	ug/kg	1.9	8260/5035	07/30/07 11:39	07/26/07	JAH	B
2-Hexanone	ND	ug/kg	9.5	8260/5035	07/30/07 11:39	07/26/07	JAH	B
4-Methyl-2-Pentanone(MIBK)	ND	ug/kg	9.5	8260/5035	07/30/07 11:39	07/26/07	JAH	B
Methylene Chloride	ND	ug/kg	1.9	8260/5035	07/30/07 11:39	07/26/07	JAH	B
Styrene	ND	ug/kg	1.9	8260/5035	07/30/07 11:39	07/26/07	JAH	B
1,1,2,2-Tetrachloroethane	ND	ug/kg	1.9	8260/5035	07/30/07 11:39	07/26/07	JAH	B
Tetrachloroethene	ND	ug/kg	1.9	8260/5035	07/30/07 11:39	07/26/07	JAH	B
Toluene	ND	ug/kg	1.9	8260/5035	07/30/07 11:39	07/26/07	JAH	B
Total Xylenes	ND	ug/kg	5.7	8260/5035	07/30/07 11:39	07/26/07	JAH	B
1,1,1-Trichloroethane	ND	ug/kg	1.9	8260/5035	07/30/07 11:39	07/26/07	JAH	B
1,1,2-Trichloroethane	ND	ug/kg	1.9	8260/5035	07/30/07 11:39	07/26/07	JAH	B
Trichloroethene	ND	ug/kg	1.9	8260/5035	07/30/07 11:39	07/26/07	JAH	B
Vinyl Chloride	ND	ug/kg	1.9	8260/5035	07/30/07 11:39	07/26/07	JAH	B
o-Xylene	ND	ug/kg	1.9	8260/5035	07/30/07 11:39	07/26/07	JAH	B
mp-Xylene	ND	ug/kg	3.8	8260/5035	07/30/07 11:39	07/26/07	JAH	B



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Page: 25 Of 71

Project Name: **YORK RDA - NORTHWEST TRIANGLE**
Workorder ID: **Soils-8260B, 8270C, PCBs, Metals**

PO#: 07214
COC Number:

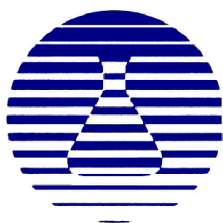
Sample ID: **E-SS4[2.0]**

Matrix: Solid

Date Collected: 07/26/07 11:00

Collected by: Mr. Dan Buterbaugh

Analysis Parameter	Result	Units	RDL	Method	Completed	Prep Date	By	Cntr
SEMIVOLATILES								
Acenaphthene	ND	ug/kg	80	SW846 8270C	08/01/07 00:03	07/27/07	DRS	E1
Acenaphthylene	ND	ug/kg	80	SW846 8270C	08/01/07 00:03	07/27/07	DRS	E1
Anthracene	ND	ug/kg	80	SW846 8270C	08/01/07 00:03	07/27/07	DRS	E1
Benzo(a)anthracene	ND	ug/kg	80	SW846 8270C	08/01/07 00:03	07/27/07	DRS	E1
Benzo(a)pyrene	ND	ug/kg	80	SW846 8270C	08/01/07 00:03	07/27/07	DRS	E1
Benzo(b)fluoranthene	ND	ug/kg	80	SW846 8270C	08/01/07 00:03	07/27/07	DRS	E1
Benzo(g,h,i)perylene	ND	ug/kg	80	SW846 8270C	08/01/07 00:03	07/27/07	DRS	E1
Benzo(k)fluoranthene	ND	ug/kg	80	SW846 8270C	08/01/07 00:03	07/27/07	DRS	E1
4-Bromophenyl-phenylether	ND	ug/kg	114	SW846 8270C	08/01/07 00:03	07/27/07	DRS	E1
Butylbenzylphthalate	ND	ug/kg	114	SW846 8270C	08/01/07 00:03	07/27/07	DRS	E1
Carbazole	ND	ug/kg	114	SW846 8270C	08/01/07 00:03	07/27/07	DRS	E1
4-Chloro-3-methylphenol	ND	ug/kg	309	SW846 8270C	08/01/07 00:03	07/27/07	DRS	E1
4-Chloroaniline	ND	ug/kg	309	SW846 8270C	08/01/07 00:03	07/27/07	DRS	E1
Bis(2-Chloroethoxy)methane	ND	ug/kg	114	SW846 8270C	08/01/07 00:03	07/27/07	DRS	E1
Bis(2-Chloroethyl)ether	ND	ug/kg	114	SW846 8270C	08/01/07 00:03	07/27/07	DRS	E1
bis(2-Chloroisopropyl)ether	ND	ug/kg	114	SW846 8270C	08/01/07 00:03	07/27/07	DRS	E1
2-Chloronaphthalene	ND	ug/kg	114	SW846 8270C	08/01/07 00:03	07/27/07	DRS	E1
2-Chlorophenol	ND	ug/kg	309	SW846 8270C	08/01/07 00:03	07/27/07	DRS	E1
4-Chlorophenyl-phenylether	ND	ug/kg	114	SW846 8270C	08/01/07 00:03	07/27/07	DRS	E1
Chrysene	ND	ug/kg	80	SW846 8270C	08/01/07 00:03	07/27/07	DRS	E1



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Page: 26 Of 71

Project Name: **YORK RDA - NORTHWEST TRIANGLE**
Workorder ID: **Soils-8260B, 8270C, PCBs, Metals**

PO#: 07214
COC Number:

Sample ID: **E-SS4[2.0]**
Date Collected: 07/26/07 11:00

Matrix: Solid
Collected by: Mr. Dan Buterbaugh

Analysis Parameter	Result	Units	RDL	Method	Completed	Prep Date	By	Cntr
SEMIVOLATILES (continued)								
mp-Cresol	ND	ug/kg	309	SW846 8270C	08/01/07 00:03	07/27/07	DRS	E1
o-Cresol	ND	ug/kg	309	SW846 8270C	08/01/07 00:03	07/27/07	DRS	E1
Di-n-Butylphthalate	ND	ug/kg	114	SW846 8270C	08/01/07 00:03	07/27/07	DRS	E1
Di-n-Octylphthalate	ND	ug/kg	309	SW846 8270C	08/01/07 00:03	07/27/07	DRS	E1
Dibenzo(a,h)anthracene	ND	ug/kg	80	SW846 8270C	08/01/07 00:03	07/27/07	DRS	E1
Dibenzofuran	ND	ug/kg	114	SW846 8270C	08/01/07 00:03	07/27/07	DRS	E1
1,2-Dichlorobenzene	ND	ug/kg	114	SW846 8270C	08/01/07 00:03	07/27/07	DRS	E1
1,3-Dichlorobenzene	ND	ug/kg	114	SW846 8270C	08/01/07 00:03	07/27/07	DRS	E1
1,4-Dichlorobenzene	ND	ug/kg	114	SW846 8270C	08/01/07 00:03	07/27/07	DRS	E1
3,3-Dichlorobenzidine	ND	ug/kg	114	SW846 8270C	08/01/07 00:03	07/27/07	DRS	E1
2,4-Dichlorophenol	ND	ug/kg	309	SW846 8270C	08/01/07 00:03	07/27/07	DRS	E1
Diethylphthalate	ND	ug/kg	114	SW846 8270C	08/01/07 00:03	07/27/07	DRS	E1
2,4-Dimethylphenol	ND	ug/kg	309	SW846 8270C	08/01/07 00:03	07/27/07	DRS	E1
Dimethylphthalate	ND	ug/kg	114	SW846 8270C	08/01/07 00:03	07/27/07	DRS	E1
2,4-Dinitrophenol	ND	ug/kg	617	SW846 8270C	08/01/07 00:03	07/27/07	DRS	E1
2,4-Dinitrotoluene	ND	ug/kg	114	SW846 8270C	08/01/07 00:03	07/27/07	DRS	E1
2,6-Dinitrotoluene	ND	ug/kg	114	SW846 8270C	08/01/07 00:03	07/27/07	DRS	E1
bis(2-Ethylhexyl)phthalate	ND	ug/kg	114	SW846 8270C	08/01/07 00:03	07/27/07	DRS	E1
Fluoranthene	ND	ug/kg	80	SW846 8270C	08/01/07 00:03	07/27/07	DRS	E1
Fluorene	ND	ug/kg	80	SW846 8270C	08/01/07 00:03	07/27/07	DRS	E1



Certificate of Analysis

August 10, 2007

Mr. Dan Buterbaugh
ARM Group Inc.
1129 W. Governor Road
Hershey, PA 17033

Lab ID #: **9695451004**
Received: 07/26/07 16:15
Discard: 08/24/07

Page: 27 Of 71

Project Name: **YORK RDA - NORTHWEST TRIANGLE**
Workorder ID: **Soils-8260B, 8270C, PCBs, Metals**

PO#: 07214
COC Number:

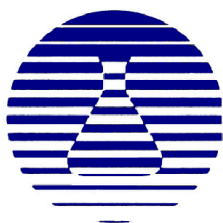
Sample ID: **E-SS4[2.0]**

Matrix: Solid

Date Collected: 07/26/07 11:00

Collected by: Mr. Dan Buterbaugh

Analysis Parameter	Result	Units	RDL	Method	Completed	Prep Date	By	Cntr
SEMIVOLATILES (continued)								
Hexachlorobenzene	ND	ug/kg	114	SW846 8270C	08/01/07 00:03	07/27/07	DRS	E1
Hexachlorobutadiene	ND	ug/kg	114	SW846 8270C	08/01/07 00:03	07/27/07	DRS	E1
Hexachlorocyclopentadiene	ND	ug/kg	309	SW846 8270C	08/01/07 00:03	07/27/07	DRS	E1
Hexachloroethane	ND	ug/kg	114	SW846 8270C	08/01/07 00:03	07/27/07	DRS	E1
Indeno(1,2,3-cd)pyrene	ND	ug/kg	80	SW846 8270C	08/01/07 00:03	07/27/07	DRS	E1
Isophorone	ND	ug/kg	114	SW846 8270C	08/01/07 00:03	07/27/07	DRS	E1
2-Methyl-4,6-dinitrophenol	ND	ug/kg	309	SW846 8270C	08/01/07 00:03	07/27/07	DRS	E1
2-Methylnaphthalene	ND	ug/kg	80	SW846 8270C	08/01/07 00:03	07/27/07	DRS	E1
Naphthalene	ND	ug/kg	80	SW846 8270C	08/01/07 00:03	07/27/07	DRS	E1
2-Nitroaniline	ND	ug/kg	114	SW846 8270C	08/01/07 00:03	07/27/07	DRS	E1
3-Nitroaniline	ND	ug/kg	309	SW846 8270C	08/01/07 00:03	07/27/07	DRS	E1
4-Nitroaniline	ND	ug/kg	309	SW846 8270C	08/01/07 00:03	07/27/07	DRS	E1
Nitrobenzene	ND	ug/kg	114	SW846 8270C	08/01/07 00:03	07/27/07	DRS	E1
2-Nitrophenol	ND	ug/kg	309	SW846 8270C	08/01/07 00:03	07/27/07	DRS	E1
4-Nitrophenol	ND	ug/kg	617	SW846 8270C	08/01/07 00:03	07/27/07	DRS	E1
N-Nitroso-di-n-propylamine	ND	ug/kg	114	SW846 8270C	08/01/07 00:03	07/27/07	DRS	E1
N-Nitrosodiphenylamine	ND	ug/kg	114	SW846 8270C	08/01/07 00:03	07/27/07	DRS	E1
Pentachlorophenol	ND	ug/kg	617	SW846 8270C	08/01/07 00:03	07/27/07	DRS	E1
Phenanthrene	ND	ug/kg	80	SW846 8270C	08/01/07 00:03	07/27/07	DRS	E1
Phenol	ND	ug/kg	309	SW846 8270C	08/01/07 00:03	07/27/07	DRS	E1



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Discard: 08/24/07

Page: 28 Of 71

Project Name: **YORK RDA - NORTHWEST TRIANGLE**
Workorder ID: **Soils-8260B, 8270C, PCBs, Metals**

PO#: 07214
COC Number:

Sample ID: **E-SS4[2.0]**

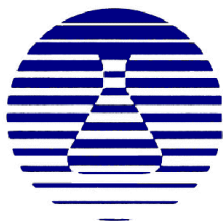
Matrix: Solid

Date Collected: 07/26/07 11:00

Collected by: Mr. Dan Buterbaugh

Analysis Parameter	Result	Units	RDL	Method	Completed	Prep Date	By	Cntr
SEMIVOLATILES (continued)								
Pyrene	ND	ug/kg	80	SW846 8270C	08/01/07 00:03	07/27/07	DRS	E1
1,2,4-Trichlorobenzene	ND	ug/kg	114	SW846 8270C	08/01/07 00:03	07/27/07	DRS	E1
2,4,5-Trichlorophenol	ND	ug/kg	309	SW846 8270C	08/01/07 00:03	07/27/07	DRS	E1
2,4,6-Trichlorophenol	ND	ug/kg	309	SW846 8270C	08/01/07 00:03	07/27/07	DRS	E1
WET CHEMISTRY								
Moisture	14.0	%	0.1	SM20-2540 G	07/27/07 05:45	07/27/07	KMW	E
Total Solids	86.0	%	0.1	SM20-2540 G	07/27/07 05:45	07/27/07	KMW	E
METALS								
Arsenic, Total	3	mg/kg	3	SW846 6010B	08/07/07 05:34	08/02/07	TED	E2
Barium, Total	38	mg/kg	1	SW846 6010B	08/07/07 05:34	08/02/07	TED	E2
Cadmium, Total	ND	mg/kg	0.5	SW846 6010B	08/07/07 05:34	08/02/07	TED	E2
Chromium, Total	8.3	mg/kg	1.0	SW846 6010B	08/07/07 05:34	08/02/07	TED	E2
Lead, Total	6	mg/kg	2	SW846 6010B	08/07/07 05:34	08/02/07	TED	E2
Mercury, Total ¹	ND	mg/kg	0.21	SW846 7471B	08/09/07 08:29	08/08/07	CMD	E3
Selenium, Total	ND	mg/kg	5	SW846 6010B	08/07/07 05:34	08/02/07	TED	E2
Silver, Total	ND	mg/kg	0.5	SW846 6010B	08/07/07 05:34	08/02/07	TED	E2

1 - The recovery of the Matrix Spike (MS) associated to this analyte was outside of the established control limits. The sample was post-digestion spiked, and this matrix spike was within acceptable recovery limits.



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August 10, 2007

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1129 W. Governor Road
Hershey, PA 17033

Lab ID #: **9695451004**
Received: 07/26/07 16:15
Discard: 08/24/07

Page: 29 Of 71

Project Name: **YORK RDA - NORTHWEST TRIANGLE**
Workorder ID: **Soils-8260B, 8270C, PCBs, Metals**

PO#: 07214
COC Number:

Sample ID: **E-SS4[2.0]**

Matrix: Solid

Date Collected: 07/26/07 11:00

Collected by: Mr. Dan Buterbaugh

Surrogates	Result	Units	Recovery	Limits
2,4,6-Tribromophenol	2890	ug/kg	88.0%	(24 - 130)
1,2-Dichloroethane-d4	21.5	ug/kg	87.0%	(56 - 124)
Dibromofluoromethane	21.2	ug/kg	86.0%	(62 - 123)
Toluene-d8	21.9	ug/kg	89.0%	(59 - 131)
2-Fluorobiphenyl	1300	ug/kg	80.0%	(40 - 113)
2-Fluorophenol	2790	ug/kg	85.0%	(25 - 110)
Nitrobenzene-d5	1460	ug/kg	89.0%	(36 - 113)
Phenol-d5	2830	ug/kg	86.0%	(28 - 111)
4-Bromofluorobenzene	20.1	ug/kg	82.0%	(51 - 128)
Terphenyl-d14	1380	ug/kg	84.0%	(35 - 135)

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

Raymond J. Martrano
Laboratory Manager



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Page: 30 Of 71

Project Name: **YORK RDA - NORTHWEST TRIANGLE**
Workorder ID: **Soils-8260B, 8270C, PCBs, Metals**

PO#: 07214
COC Number:

Sample ID: **E-SS5[2.5]**

Matrix: Solid

Date Collected: 07/26/07 11:30

Collected by: Mr. Dan Buterbaugh

Analysis Parameter	Result	Units	RDL	Method	Completed	Prep Date	By	Cntr
VOLATILE ORGANICS								
Acetone	40.6	ug/kg	26.3	8260/5035	07/30/07 12:10	07/26/07	JAH	B
Benzene	ND	ug/kg	2.1	8260/5035	07/30/07 12:10	07/26/07	JAH	B
Bromochloromethane	ND	ug/kg	2.1	8260/5035	07/30/07 12:10	07/26/07	JAH	B
Bromodichloromethane	ND	ug/kg	2.1	8260/5035	07/30/07 12:10	07/26/07	JAH	B
Bromoform	ND	ug/kg	2.1	8260/5035	07/30/07 12:10	07/26/07	JAH	B
Bromomethane	ND	ug/kg	4.2	8260/5035	07/30/07 12:10	07/26/07	JAH	B
2-Butanone	ND	ug/kg	10.5	8260/5035	07/30/07 12:10	07/26/07	JAH	B
Carbon Disulfide	ND	ug/kg	2.1	8260/5035	07/30/07 12:10	07/26/07	JAH	B
Carbon Tetrachloride	ND	ug/kg	2.1	8260/5035	07/30/07 12:10	07/26/07	JAH	B
Chlorobenzene	ND	ug/kg	2.1	8260/5035	07/30/07 12:10	07/26/07	JAH	B
Chlorodibromomethane	ND	ug/kg	2.1	8260/5035	07/30/07 12:10	07/26/07	JAH	B
Chloroethane	ND	ug/kg	2.1	8260/5035	07/30/07 12:10	07/26/07	JAH	B
Chloroform	ND	ug/kg	2.1	8260/5035	07/30/07 12:10	07/26/07	JAH	B
Chloromethane	ND	ug/kg	2.1	8260/5035	07/30/07 12:10	07/26/07	JAH	B
1,2-Dibromo-3-chloropropane	ND	ug/kg	4.2	8260/5035	07/30/07 12:10	07/26/07	JAH	B
1,2-Dibromoethane	ND	ug/kg	2.1	8260/5035	07/30/07 12:10	07/26/07	JAH	B
1,1-Dichloroethane	ND	ug/kg	2.1	8260/5035	07/30/07 12:10	07/26/07	JAH	B
1,2-Dichloroethane	ND	ug/kg	2.1	8260/5035	07/30/07 12:10	07/26/07	JAH	B
1,1-Dichloroethene	ND	ug/kg	2.1	8260/5035	07/30/07 12:10	07/26/07	JAH	B
cis-1,2-Dichloroethene	ND	ug/kg	2.1	8260/5035	07/30/07 12:10	07/26/07	JAH	B



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Page: 31 Of 71

Project Name: **YORK RDA - NORTHWEST TRIANGLE**
Workorder ID: **Soils-8260B, 8270C, PCBs, Metals**

PO#: 07214
COC Number:

Sample ID: **E-SS5[2.5]**

Matrix: Solid

Date Collected: 07/26/07 11:30

Collected by: Mr. Dan Buterbaugh

Analysis Parameter	Result	Units	RDL	Method	Completed	Prep Date	By	Cntr
VOLATILE ORGANICS (continued)								
trans-1,2-Dichloroethene	ND	ug/kg	2.1	8260/5035	07/30/07 12:10	07/26/07	JAH	B
1,2-Dichloropropane	ND	ug/kg	2.1	8260/5035	07/30/07 12:10	07/26/07	JAH	B
cis-1,3-Dichloropropene	ND	ug/kg	2.1	8260/5035	07/30/07 12:10	07/26/07	JAH	B
trans-1,3-Dichloropropene	ND	ug/kg	2.1	8260/5035	07/30/07 12:10	07/26/07	JAH	B
Ethylbenzene	ND	ug/kg	2.1	8260/5035	07/30/07 12:10	07/26/07	JAH	B
2-Hexanone	ND	ug/kg	10.5	8260/5035	07/30/07 12:10	07/26/07	JAH	B
4-Methyl-2-Pentanone(MIBK)	ND	ug/kg	10.5	8260/5035	07/30/07 12:10	07/26/07	JAH	B
Methylene Chloride	3.0	ug/kg	2.1	8260/5035	07/30/07 12:10	07/26/07	JAH	B
Styrene	ND	ug/kg	2.1	8260/5035	07/30/07 12:10	07/26/07	JAH	B
1,1,2,2-Tetrachloroethane	ND	ug/kg	2.1	8260/5035	07/30/07 12:10	07/26/07	JAH	B
Tetrachloroethene	ND	ug/kg	2.1	8260/5035	07/30/07 12:10	07/26/07	JAH	B
Toluene	ND	ug/kg	2.1	8260/5035	07/30/07 12:10	07/26/07	JAH	B
Total Xylenes	ND	ug/kg	6.3	8260/5035	07/30/07 12:10	07/26/07	JAH	B
1,1,1-Trichloroethane	ND	ug/kg	2.1	8260/5035	07/30/07 12:10	07/26/07	JAH	B
1,1,2-Trichloroethane	ND	ug/kg	2.1	8260/5035	07/30/07 12:10	07/26/07	JAH	B
Trichloroethene	ND	ug/kg	2.1	8260/5035	07/30/07 12:10	07/26/07	JAH	B
Vinyl Chloride	ND	ug/kg	2.1	8260/5035	07/30/07 12:10	07/26/07	JAH	B
o-Xylene	ND	ug/kg	2.1	8260/5035	07/30/07 12:10	07/26/07	JAH	B
mp-Xylene	ND	ug/kg	4.2	8260/5035	07/30/07 12:10	07/26/07	JAH	B



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Page: 32 Of 71

Project Name: **YORK RDA - NORTHWEST TRIANGLE**
Workorder ID: **Soils-8260B, 8270C, PCBs, Metals**

PO#: 07214
COC Number:

Sample ID: **E-SS5[2.5]**

Matrix: Solid

Date Collected: 07/26/07 11:30

Collected by: Mr. Dan Buterbaugh

Analysis Parameter	Result	Units	RDL	Method	Completed	Prep Date	By	Cntr
SEMIVOLATILES								
Acenaphthene	ND	ug/kg	78	SW846 8270C	08/01/07 00:53	07/27/07	DRS	E1
Acenaphthylene	ND	ug/kg	78	SW846 8270C	08/01/07 00:53	07/27/07	DRS	E1
Anthracene	ND	ug/kg	78	SW846 8270C	08/01/07 00:53	07/27/07	DRS	E1
Benzo(a)anthracene	ND	ug/kg	78	SW846 8270C	08/01/07 00:53	07/27/07	DRS	E1
Benzo(a)pyrene	ND	ug/kg	78	SW846 8270C	08/01/07 00:53	07/27/07	DRS	E1
Benzo(b)fluoranthene	ND	ug/kg	78	SW846 8270C	08/01/07 00:53	07/27/07	DRS	E1
Benzo(g,h,i)perylene	ND	ug/kg	78	SW846 8270C	08/01/07 00:53	07/27/07	DRS	E1
Benzo(k)fluoranthene	ND	ug/kg	78	SW846 8270C	08/01/07 00:53	07/27/07	DRS	E1
4-Bromophenyl-phenylether	ND	ug/kg	111	SW846 8270C	08/01/07 00:53	07/27/07	DRS	E1
Butylbenzylphthalate	ND	ug/kg	111	SW846 8270C	08/01/07 00:53	07/27/07	DRS	E1
Carbazole	ND	ug/kg	111	SW846 8270C	08/01/07 00:53	07/27/07	DRS	E1
4-Chloro-3-methylphenol	ND	ug/kg	299	SW846 8270C	08/01/07 00:53	07/27/07	DRS	E1
4-Chloroaniline	ND	ug/kg	299	SW846 8270C	08/01/07 00:53	07/27/07	DRS	E1
Bis(2-Chloroethoxy)methane	ND	ug/kg	111	SW846 8270C	08/01/07 00:53	07/27/07	DRS	E1
Bis(2-Chloroethyl)ether	ND	ug/kg	111	SW846 8270C	08/01/07 00:53	07/27/07	DRS	E1
bis(2-Chloroisopropyl)ether	ND	ug/kg	111	SW846 8270C	08/01/07 00:53	07/27/07	DRS	E1
2-Chloronaphthalene	ND	ug/kg	111	SW846 8270C	08/01/07 00:53	07/27/07	DRS	E1
2-Chlorophenol	ND	ug/kg	299	SW846 8270C	08/01/07 00:53	07/27/07	DRS	E1
4-Chlorophenyl-phenylether	ND	ug/kg	111	SW846 8270C	08/01/07 00:53	07/27/07	DRS	E1
Chrysene	103	ug/kg	78	SW846 8270C	08/01/07 00:53	07/27/07	DRS	E1



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Page: 33 Of 71

Project Name: **YORK RDA - NORTHWEST TRIANGLE**
Workorder ID: **Soils-8260B, 8270C, PCBs, Metals**

PO#: 07214
COC Number:

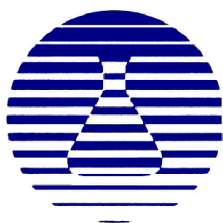
Sample ID: **E-SS5[2.5]**

Matrix: Solid

Date Collected: 07/26/07 11:30

Collected by: Mr. Dan Buterbaugh

Analysis Parameter	Result	Units	RDL	Method	Completed	Prep Date	By	Cntr
SEMIVOLATILES (continued)								
mp-Cresol	ND	ug/kg	299	SW846 8270C	08/01/07 00:53	07/27/07	DRS	E1
o-Cresol	ND	ug/kg	299	SW846 8270C	08/01/07 00:53	07/27/07	DRS	E1
Di-n-Butylphthalate	ND	ug/kg	111	SW846 8270C	08/01/07 00:53	07/27/07	DRS	E1
Di-n-Octylphthalate	ND	ug/kg	299	SW846 8270C	08/01/07 00:53	07/27/07	DRS	E1
Dibenzo(a,h)anthracene	ND	ug/kg	78	SW846 8270C	08/01/07 00:53	07/27/07	DRS	E1
Dibenzofuran	ND	ug/kg	111	SW846 8270C	08/01/07 00:53	07/27/07	DRS	E1
1,2-Dichlorobenzene	ND	ug/kg	111	SW846 8270C	08/01/07 00:53	07/27/07	DRS	E1
1,3-Dichlorobenzene	ND	ug/kg	111	SW846 8270C	08/01/07 00:53	07/27/07	DRS	E1
1,4-Dichlorobenzene	ND	ug/kg	111	SW846 8270C	08/01/07 00:53	07/27/07	DRS	E1
3,3-Dichlorobenzidine	ND	ug/kg	111	SW846 8270C	08/01/07 00:53	07/27/07	DRS	E1
2,4-Dichlorophenol	ND	ug/kg	299	SW846 8270C	08/01/07 00:53	07/27/07	DRS	E1
Diethylphthalate	ND	ug/kg	111	SW846 8270C	08/01/07 00:53	07/27/07	DRS	E1
2,4-Dimethylphenol	ND	ug/kg	299	SW846 8270C	08/01/07 00:53	07/27/07	DRS	E1
Dimethylphthalate	ND	ug/kg	111	SW846 8270C	08/01/07 00:53	07/27/07	DRS	E1
2,4-Dinitrophenol	ND	ug/kg	598	SW846 8270C	08/01/07 00:53	07/27/07	DRS	E1
2,4-Dinitrotoluene	ND	ug/kg	111	SW846 8270C	08/01/07 00:53	07/27/07	DRS	E1
2,6-Dinitrotoluene	ND	ug/kg	111	SW846 8270C	08/01/07 00:53	07/27/07	DRS	E1
bis(2-Ethylhexyl)phthalate	ND	ug/kg	111	SW846 8270C	08/01/07 00:53	07/27/07	DRS	E1
Fluoranthene	ND	ug/kg	78	SW846 8270C	08/01/07 00:53	07/27/07	DRS	E1
Fluorene	ND	ug/kg	78	SW846 8270C	08/01/07 00:53	07/27/07	DRS	E1



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Page: 34 Of 71

Project Name: **YORK RDA - NORTHWEST TRIANGLE**
Workorder ID: **Soils-8260B, 8270C, PCBs, Metals**

PO#: 07214
COC Number:

Sample ID: **E-SS5[2.5]**
Date Collected: 07/26/07 11:30

Matrix: Solid
Collected by: Mr. Dan Buterbaugh

Analysis Parameter	Result	Units	RDL	Method	Completed	Prep Date	By	Cntr
SEMIVOLATILES (continued)								
Hexachlorobenzene	ND	ug/kg	111	SW846 8270C	08/01/07 00:53	07/27/07	DRS	E1
Hexachlorobutadiene	ND	ug/kg	111	SW846 8270C	08/01/07 00:53	07/27/07	DRS	E1
Hexachlorocyclopentadiene	ND	ug/kg	299	SW846 8270C	08/01/07 00:53	07/27/07	DRS	E1
Hexachloroethane	ND	ug/kg	111	SW846 8270C	08/01/07 00:53	07/27/07	DRS	E1
Indeno(1,2,3-cd)pyrene	ND	ug/kg	78	SW846 8270C	08/01/07 00:53	07/27/07	DRS	E1
Isophorone	ND	ug/kg	111	SW846 8270C	08/01/07 00:53	07/27/07	DRS	E1
2-Methyl-4,6-dinitrophenol	ND	ug/kg	299	SW846 8270C	08/01/07 00:53	07/27/07	DRS	E1
2-Methylnaphthalene	ND	ug/kg	78	SW846 8270C	08/01/07 00:53	07/27/07	DRS	E1
Naphthalene	ND	ug/kg	78	SW846 8270C	08/01/07 00:53	07/27/07	DRS	E1
2-Nitroaniline	ND	ug/kg	111	SW846 8270C	08/01/07 00:53	07/27/07	DRS	E1
3-Nitroaniline	ND	ug/kg	299	SW846 8270C	08/01/07 00:53	07/27/07	DRS	E1
4-Nitroaniline	ND	ug/kg	299	SW846 8270C	08/01/07 00:53	07/27/07	DRS	E1
Nitrobenzene	ND	ug/kg	111	SW846 8270C	08/01/07 00:53	07/27/07	DRS	E1
2-Nitrophenol	ND	ug/kg	299	SW846 8270C	08/01/07 00:53	07/27/07	DRS	E1
4-Nitrophenol	ND	ug/kg	598	SW846 8270C	08/01/07 00:53	07/27/07	DRS	E1
N-Nitroso-di-n-propylamine	ND	ug/kg	111	SW846 8270C	08/01/07 00:53	07/27/07	DRS	E1
N-Nitrosodiphenylamine	ND	ug/kg	111	SW846 8270C	08/01/07 00:53	07/27/07	DRS	E1
Pentachlorophenol	ND	ug/kg	598	SW846 8270C	08/01/07 00:53	07/27/07	DRS	E1
Phenanthrene	ND	ug/kg	78	SW846 8270C	08/01/07 00:53	07/27/07	DRS	E1
Phenol	ND	ug/kg	299	SW846 8270C	08/01/07 00:53	07/27/07	DRS	E1



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ARM Group Inc.
1129 W. Governor Road
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Page: 35 Of 71

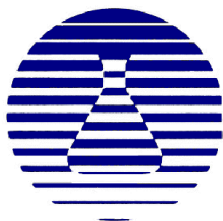
Project Name: **YORK RDA - NORTHWEST TRIANGLE**
Workorder ID: **Soils-8260B,8270C,PCBs,Metals**

PO#: 07214
COC Number:

Sample ID: **E-SS5[2.5]**
Date Collected: 07/26/07 11:30

Matrix: Solid
Collected by: Mr. Dan Buterbaugh

Analysis Parameter	Result	Units	RDL	Method	Completed	Prep Date	By	Cntr
SEMIVOLATILES (continued)								
Pyrene	ND	ug/kg	78	SW846 8270C	08/01/07 00:53	07/27/07	DRS	E1
1,2,4-Trichlorobenzene	ND	ug/kg	111	SW846 8270C	08/01/07 00:53	07/27/07	DRS	E1
2,4,5-Trichlorophenol	ND	ug/kg	299	SW846 8270C	08/01/07 00:53	07/27/07	DRS	E1
2,4,6-Trichlorophenol	ND	ug/kg	299	SW846 8270C	08/01/07 00:53	07/27/07	DRS	E1
WET CHEMISTRY								
Moisture	10.3	%	0.1	SM20-2540 G	07/27/07 05:45	07/27/07	KMW	E
Total Solids	89.7	%	0.1	SM20-2540 G	07/27/07 05:45	07/27/07	KMW	E
METALS								
Arsenic, Total	13	mg/kg	1	SW846 6010B	08/07/07 05:39	08/02/07	TED	E2
Barium, Total	117	mg/kg	0.6	SW846 6010B	08/07/07 05:39	08/02/07	TED	E2
Cadmium, Total	ND	mg/kg	0.3	SW846 6010B	08/07/07 05:39	08/02/07	TED	E2
Chromium, Total	11.7	mg/kg	0.6	SW846 6010B	08/07/07 05:39	08/02/07	TED	E2
Lead, Total	154	mg/kg	1	SW846 6010B	08/07/07 05:39	08/02/07	TED	E2
Mercury, Total	ND	mg/kg	0.21	SW846 7471B	08/09/07 08:40	08/08/07	CMD	E3
Selenium, Total	ND	mg/kg	3	SW846 6010B	08/07/07 05:39	08/02/07	TED	E2
Silver, Total	ND	mg/kg	0.3	SW846 6010B	08/07/07 05:39	08/02/07	TED	E2



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1129 W. Governor Road
Hershey, PA 17033

Lab ID #: **9695451005**
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Page: 36 Of 71

Project Name: **YORK RDA - NORTHWEST TRIANGLE**
Workorder ID: **Soils-8260B, 8270C, PCBs, Metals**

PO#: 07214
COC Number:

Sample ID: **E-SS5[2.5]**

Matrix: Solid

Date Collected: 07/26/07 11:30

Collected by: Mr. Dan Buterbaugh

Surrogates	Result	Units	Recovery	Limits
2,4,6-Tribromophenol	3080	ug/kg	93.0%	(24 - 130)
1,2-Dichloroethane-d4	24.5	ug/kg	87.0%	(56 - 124)
Dibromofluoromethane	24.3	ug/kg	86.0%	(62 - 123)
Toluene-d8	25.3	ug/kg	90.0%	(59 - 131)
2-Fluorobiphenyl	1410	ug/kg	85.0%	(40 - 113)
2-Fluorophenol	2960	ug/kg	89.0%	(25 - 110)
Nitrobenzene-d5	1450	ug/kg	88.0%	(36 - 113)
Phenol-d5	2970	ug/kg	90.0%	(28 - 111)
4-Bromofluorobenzene	23.9	ug/kg	85.0%	(51 - 128)
Terphenyl-d14	1430	ug/kg	86.0%	(35 - 135)

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

Raymond J. Martrano
Laboratory Manager



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Discard: 08/24/07

Page: 37 Of 71

Project Name: **YORK RDA - NORTHWEST TRIANGLE**
Workorder ID: **Soils-8260B, 8270C, PCBs, Metals**

PO#: 07214
COC Number:

Sample ID: **E-SS6[2.5]**
Date Collected: 07/26/07 12:00

Matrix: Solid
Collected by: Mr. Dan Buterbaugh

Analysis Parameter	Result	Units	RDL	Method	Completed	Prep Date	By	Cntr
VOLATILE ORGANICS								
Acetone	ND	ug/kg	19.3	8260/5035	07/31/07 13:29	07/26/07	JAH	B
Benzene	ND	ug/kg	1.5	8260/5035	07/31/07 13:29	07/26/07	JAH	B
Bromochloromethane	ND	ug/kg	1.5	8260/5035	07/31/07 13:29	07/26/07	JAH	B
Bromodichloromethane	ND	ug/kg	1.5	8260/5035	07/31/07 13:29	07/26/07	JAH	B
Bromoform	ND	ug/kg	1.5	8260/5035	07/31/07 13:29	07/26/07	JAH	B
Bromomethane	ND	ug/kg	3.1	8260/5035	07/31/07 13:29	07/26/07	JAH	B
2-Butanone	ND	ug/kg	7.7	8260/5035	07/31/07 13:29	07/26/07	JAH	B
Carbon Disulfide	ND	ug/kg	1.5	8260/5035	07/31/07 13:29	07/26/07	JAH	B
Carbon Tetrachloride	ND	ug/kg	1.5	8260/5035	07/31/07 13:29	07/26/07	JAH	B
Chlorobenzene	ND	ug/kg	1.5	8260/5035	07/31/07 13:29	07/26/07	JAH	B
Chlorodibromomethane	ND	ug/kg	1.5	8260/5035	07/31/07 13:29	07/26/07	JAH	B
Chloroethane	ND	ug/kg	1.5	8260/5035	07/31/07 13:29	07/26/07	JAH	B
Chloroform	ND	ug/kg	1.5	8260/5035	07/31/07 13:29	07/26/07	JAH	B
Chloromethane	ND	ug/kg	1.5	8260/5035	07/31/07 13:29	07/26/07	JAH	B
1,2-Dibromo-3-chloropropane	ND	ug/kg	3.1	8260/5035	07/31/07 13:29	07/26/07	JAH	B
1,2-Dibromoethane	ND	ug/kg	1.5	8260/5035	07/31/07 13:29	07/26/07	JAH	B
1,1-Dichloroethane	ND	ug/kg	1.5	8260/5035	07/31/07 13:29	07/26/07	JAH	B
1,2-Dichloroethane	ND	ug/kg	1.5	8260/5035	07/31/07 13:29	07/26/07	JAH	B
1,1-Dichloroethene	ND	ug/kg	1.5	8260/5035	07/31/07 13:29	07/26/07	JAH	B
cis-1,2-Dichloroethene	ND	ug/kg	1.5	8260/5035	07/31/07 13:29	07/26/07	JAH	B



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Page: 38 Of 71

Project Name: **YORK RDA - NORTHWEST TRIANGLE**
Workorder ID: **Soils-8260B, 8270C, PCBs, Metals**

PO#: 07214
COC Number:

Sample ID: **E-SS6[2.5]**

Matrix: Solid

Date Collected: 07/26/07 12:00

Collected by: Mr. Dan Buterbaugh

Analysis Parameter	Result	Units	RDL	Method	Completed	Prep Date	By	Cntr
VOLATILE ORGANICS (continued)								
trans-1,2-Dichloroethene	ND	ug/kg	1.5	8260/5035	07/31/07 13:29	07/26/07	JAH	B
1,2-Dichloropropane	ND	ug/kg	1.5	8260/5035	07/31/07 13:29	07/26/07	JAH	B
cis-1,3-Dichloropropene	ND	ug/kg	1.5	8260/5035	07/31/07 13:29	07/26/07	JAH	B
trans-1,3-Dichloropropene	ND	ug/kg	1.5	8260/5035	07/31/07 13:29	07/26/07	JAH	B
Ethylbenzene	ND	ug/kg	1.5	8260/5035	07/31/07 13:29	07/26/07	JAH	B
2-Hexanone	ND	ug/kg	7.7	8260/5035	07/31/07 13:29	07/26/07	JAH	B
4-Methyl-2-Pentanone(MIBK)	ND	ug/kg	7.7	8260/5035	07/31/07 13:29	07/26/07	JAH	B
Methylene Chloride	2.2	ug/kg	1.5	8260/5035	07/31/07 13:29	07/26/07	JAH	B
Styrene	ND	ug/kg	1.5	8260/5035	07/31/07 13:29	07/26/07	JAH	B
1,1,2,2-Tetrachloroethane	ND	ug/kg	1.5	8260/5035	07/31/07 13:29	07/26/07	JAH	B
Tetrachloroethene	ND	ug/kg	1.5	8260/5035	07/31/07 13:29	07/26/07	JAH	B
Toluene	ND	ug/kg	1.5	8260/5035	07/31/07 13:29	07/26/07	JAH	B
Total Xylenes	ND	ug/kg	4.6	8260/5035	07/31/07 13:29	07/26/07	JAH	B
1,1,1-Trichloroethane	ND	ug/kg	1.5	8260/5035	07/31/07 13:29	07/26/07	JAH	B
1,1,2-Trichloroethane	ND	ug/kg	1.5	8260/5035	07/31/07 13:29	07/26/07	JAH	B
Trichloroethene	ND	ug/kg	1.5	8260/5035	07/31/07 13:29	07/26/07	JAH	B
Vinyl Chloride	ND	ug/kg	1.5	8260/5035	07/31/07 13:29	07/26/07	JAH	B
o-Xylene	ND	ug/kg	1.5	8260/5035	07/31/07 13:29	07/26/07	JAH	B
mp-Xylene	ND	ug/kg	3.1	8260/5035	07/31/07 13:29	07/26/07	JAH	B



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Page: 39 Of 71

Project Name: **YORK RDA - NORTHWEST TRIANGLE**
Workorder ID: **Soils-8260B, 8270C, PCBs, Metals**

PO#: 07214
COC Number:

Sample ID: **E-SS6[2.5]**

Matrix: Solid

Date Collected: 07/26/07 12:00

Collected by: Mr. Dan Buterbaugh

Analysis Parameter	Result	Units	RDL	Method	Completed	Prep Date	By	Cntr
SEMIVOLATILES								
Acenaphthene	ND	ug/kg	73	SW846 8270C	08/01/07 02:31	07/30/07	DRS	E1
Acenaphthylene	ND	ug/kg	73	SW846 8270C	08/01/07 02:31	07/30/07	DRS	E1
Anthracene	ND	ug/kg	73	SW846 8270C	08/01/07 02:31	07/30/07	DRS	E1
Benzo(a)anthracene	ND	ug/kg	73	SW846 8270C	08/01/07 02:31	07/30/07	DRS	E1
Benzo(a)pyrene	ND	ug/kg	73	SW846 8270C	08/01/07 02:31	07/30/07	DRS	E1
Benzo(b)fluoranthene	ND	ug/kg	73	SW846 8270C	08/01/07 02:31	07/30/07	DRS	E1
Benzo(g,h,i)perylene	ND	ug/kg	73	SW846 8270C	08/01/07 02:31	07/30/07	DRS	E1
Benzo(k)fluoranthene	ND	ug/kg	73	SW846 8270C	08/01/07 02:31	07/30/07	DRS	E1
4-Bromophenyl-phenylether	ND	ug/kg	104	SW846 8270C	08/01/07 02:31	07/30/07	DRS	E1
Butylbenzylphthalate	ND	ug/kg	104	SW846 8270C	08/01/07 02:31	07/30/07	DRS	E1
Carbazole	ND	ug/kg	104	SW846 8270C	08/01/07 02:31	07/30/07	DRS	E1
4-Chloro-3-methylphenol	ND	ug/kg	281	SW846 8270C	08/01/07 02:31	07/30/07	DRS	E1
4-Chloroaniline	ND	ug/kg	281	SW846 8270C	08/01/07 02:31	07/30/07	DRS	E1
Bis(2-Chloroethoxy)methane	ND	ug/kg	104	SW846 8270C	08/01/07 02:31	07/30/07	DRS	E1
Bis(2-Chloroethyl)ether	ND	ug/kg	104	SW846 8270C	08/01/07 02:31	07/30/07	DRS	E1
bis(2-Chloroisopropyl)ether	ND	ug/kg	104	SW846 8270C	08/01/07 02:31	07/30/07	DRS	E1
2-Chloronaphthalene	ND	ug/kg	104	SW846 8270C	08/01/07 02:31	07/30/07	DRS	E1
2-Chlorophenol	ND	ug/kg	281	SW846 8270C	08/01/07 02:31	07/30/07	DRS	E1
4-Chlorophenyl-phenylether	ND	ug/kg	104	SW846 8270C	08/01/07 02:31	07/30/07	DRS	E1
Chrysene	ND	ug/kg	73	SW846 8270C	08/01/07 02:31	07/30/07	DRS	E1



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Page: 40 Of 71

Project Name: **YORK RDA - NORTHWEST TRIANGLE**
Workorder ID: **Soils-8260B, 8270C, PCBs, Metals**

PO#: 07214
COC Number:

Sample ID: **E-SS6[2.5]**

Matrix: Solid

Date Collected: 07/26/07 12:00

Collected by: Mr. Dan Buterbaugh

Analysis Parameter	Result	Units	RDL	Method	Completed	Prep Date	By	Cntr
SEMIVOLATILES (continued)								
mp-Cresol	ND	ug/kg	281	SW846 8270C	08/01/07 02:31	07/30/07	DRS	E1
o-Cresol	ND	ug/kg	281	SW846 8270C	08/01/07 02:31	07/30/07	DRS	E1
Di-n-Butylphthalate	ND	ug/kg	104	SW846 8270C	08/01/07 02:31	07/30/07	DRS	E1
Di-n-Octylphthalate	ND	ug/kg	281	SW846 8270C	08/01/07 02:31	07/30/07	DRS	E1
Dibenzo(a,h)anthracene	ND	ug/kg	73	SW846 8270C	08/01/07 02:31	07/30/07	DRS	E1
Dibenzofuran	ND	ug/kg	104	SW846 8270C	08/01/07 02:31	07/30/07	DRS	E1
1,2-Dichlorobenzene	ND	ug/kg	104	SW846 8270C	08/01/07 02:31	07/30/07	DRS	E1
1,3-Dichlorobenzene	ND	ug/kg	104	SW846 8270C	08/01/07 02:31	07/30/07	DRS	E1
1,4-Dichlorobenzene	ND	ug/kg	104	SW846 8270C	08/01/07 02:31	07/30/07	DRS	E1
3,3-Dichlorobenzidine	ND	ug/kg	104	SW846 8270C	08/01/07 02:31	07/30/07	DRS	E1
2,4-Dichlorophenol	ND	ug/kg	281	SW846 8270C	08/01/07 02:31	07/30/07	DRS	E1
Diethylphthalate	ND	ug/kg	104	SW846 8270C	08/01/07 02:31	07/30/07	DRS	E1
2,4-Dimethylphenol	ND	ug/kg	281	SW846 8270C	08/01/07 02:31	07/30/07	DRS	E1
Dimethylphthalate	ND	ug/kg	104	SW846 8270C	08/01/07 02:31	07/30/07	DRS	E1
2,4-Dinitrophenol	ND	ug/kg	562	SW846 8270C	08/01/07 02:31	07/30/07	DRS	E1
2,4-Dinitrotoluene	ND	ug/kg	104	SW846 8270C	08/01/07 02:31	07/30/07	DRS	E1
2,6-Dinitrotoluene	ND	ug/kg	104	SW846 8270C	08/01/07 02:31	07/30/07	DRS	E1
bis(2-Ethylhexyl)phthalate	ND	ug/kg	104	SW846 8270C	08/01/07 02:31	07/30/07	DRS	E1
Fluoranthene	ND	ug/kg	73	SW846 8270C	08/01/07 02:31	07/30/07	DRS	E1
Fluorene	ND	ug/kg	73	SW846 8270C	08/01/07 02:31	07/30/07	DRS	E1



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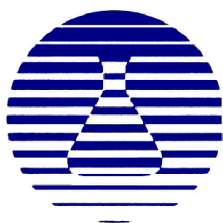
Project Name: **YORK RDA - NORTHWEST TRIANGLE**
Workorder ID: **Soils-8260B, 8270C, PCBs, Metals**

PO#: 07214
COC Number:

Sample ID: **E-SS6[2.5]**
Date Collected: 07/26/07 12:00

Matrix: Solid
Collected by: Mr. Dan Buterbaugh

Analysis Parameter	Result	Units	RDL	Method	Completed	Prep Date	By	Cntr
SEMIVOLATILES (continued)								
Hexachlorobenzene	ND	ug/kg	104	SW846 8270C	08/01/07 02:31	07/30/07	DRS	E1
Hexachlorobutadiene	ND	ug/kg	104	SW846 8270C	08/01/07 02:31	07/30/07	DRS	E1
Hexachlorocyclopentadiene	ND	ug/kg	281	SW846 8270C	08/01/07 02:31	07/30/07	DRS	E1
Hexachloroethane	ND	ug/kg	104	SW846 8270C	08/01/07 02:31	07/30/07	DRS	E1
Indeno(1,2,3-cd)pyrene	ND	ug/kg	73	SW846 8270C	08/01/07 02:31	07/30/07	DRS	E1
Isophorone	ND	ug/kg	104	SW846 8270C	08/01/07 02:31	07/30/07	DRS	E1
2-Methyl-4,6-dinitrophenol	ND	ug/kg	281	SW846 8270C	08/01/07 02:31	07/30/07	DRS	E1
2-Methylnaphthalene	ND	ug/kg	73	SW846 8270C	08/01/07 02:31	07/30/07	DRS	E1
Naphthalene	ND	ug/kg	73	SW846 8270C	08/01/07 02:31	07/30/07	DRS	E1
2-Nitroaniline	ND	ug/kg	104	SW846 8270C	08/01/07 02:31	07/30/07	DRS	E1
3-Nitroaniline	ND	ug/kg	281	SW846 8270C	08/01/07 02:31	07/30/07	DRS	E1
4-Nitroaniline	ND	ug/kg	281	SW846 8270C	08/01/07 02:31	07/30/07	DRS	E1
Nitrobenzene	ND	ug/kg	104	SW846 8270C	08/01/07 02:31	07/30/07	DRS	E1
2-Nitrophenol	ND	ug/kg	281	SW846 8270C	08/01/07 02:31	07/30/07	DRS	E1
4-Nitrophenol	ND	ug/kg	562	SW846 8270C	08/01/07 02:31	07/30/07	DRS	E1
N-Nitroso-di-n-propylamine	ND	ug/kg	104	SW846 8270C	08/01/07 02:31	07/30/07	DRS	E1
N-Nitrosodiphenylamine	ND	ug/kg	104	SW846 8270C	08/01/07 02:31	07/30/07	DRS	E1
Pentachlorophenol	ND	ug/kg	562	SW846 8270C	08/01/07 02:31	07/30/07	DRS	E1
Phenanthrene	ND	ug/kg	73	SW846 8270C	08/01/07 02:31	07/30/07	DRS	E1
Phenol	ND	ug/kg	281	SW846 8270C	08/01/07 02:31	07/30/07	DRS	E1



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Page: 42 Of 71

Project Name: **YORK RDA - NORTHWEST TRIANGLE**
Workorder ID: **Soils-8260B,8270C,PCBs,Metals**

PO#: 07214
COC Number:

Sample ID: **E-SS6[2.5]**
Date Collected: 07/26/07 12:00

Matrix: Solid
Collected by: Mr. Dan Buterbaugh

Analysis Parameter	Result	Units	RDL	Method	Completed	Prep Date	By	Cntr
SEMIVOLATILES (continued)								
Pyrene	ND	ug/kg	73	SW846 8270C	08/01/07 02:31	07/30/07	DRS	E1
1,2,4-Trichlorobenzene	ND	ug/kg	104	SW846 8270C	08/01/07 02:31	07/30/07	DRS	E1
2,4,5-Trichlorophenol	ND	ug/kg	281	SW846 8270C	08/01/07 02:31	07/30/07	DRS	E1
2,4,6-Trichlorophenol	ND	ug/kg	281	SW846 8270C	08/01/07 02:31	07/30/07	DRS	E1
WET CHEMISTRY								
Moisture	5.2	%	0.1	SM20-2540 G	07/27/07 05:45	07/27/07	KMW	E
Total Solids	94.8	%	0.1	SM20-2540 G	07/27/07 05:45	07/27/07	KMW	E
METALS								
Arsenic, Total	4	mg/kg	2	SW846 6010B	08/07/07 05:43	08/02/07	TED	E4
Barium, Total	29	mg/kg	0.8	SW846 6010B	08/07/07 05:43	08/02/07	TED	E4
Cadmium, Total	ND	mg/kg	0.4	SW846 6010B	08/07/07 05:43	08/02/07	TED	E4
Chromium, Total	10.3	mg/kg	0.8	SW846 6010B	08/07/07 05:43	08/02/07	TED	E4
Lead, Total	6	mg/kg	2	SW846 6010B	08/07/07 05:43	08/02/07	TED	E4
Mercury, Total	ND	mg/kg	0.20	SW846 7471B	08/09/07 08:44	08/08/07	CMD	E5
Selenium, Total	ND	mg/kg	4	SW846 6010B	08/07/07 05:43	08/02/07	TED	E4
Silver, Total	ND	mg/kg	0.4	SW846 6010B	08/07/07 05:43	08/02/07	TED	E4



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August 10, 2007

Mr. Dan Buterbaugh
ARM Group Inc.
1129 W. Governor Road
Hershey, PA 17033

Lab ID #: **9695451006**
Received: 07/26/07 16:15
Discard: 08/24/07

Page: 43 Of 71

Project Name: **YORK RDA - NORTHWEST TRIANGLE**
Workorder ID: **Soils-8260B, 8270C, PCBs, Metals**

PO#: 07214
COC Number:

Sample ID: **E-SS6[2.5]**

Matrix: Solid

Date Collected: 07/26/07 12:00

Collected by: Mr. Dan Buterbaugh

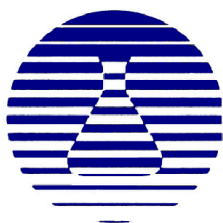
Surrogates	Result	Units	Recovery	Limits
2,4,6-Tribromophenol	3110	ug/kg	95.0%	(24 - 130)
1,2-Dichloroethane-d4	16.6	ug/kg	76.0%	(56 - 124)
Dibromofluoromethane	18.5	ug/kg	84.0%	(62 - 123)
Toluene-d8	21.3	ug/kg	97.0%	(59 - 131)
2-Fluorobiphenyl	1380	ug/kg	84.0%	(40 - 113)
2-Fluorophenol	3070	ug/kg	93.0%	(25 - 110)
Nitrobenzene-d5	1530	ug/kg	93.0%	(36 - 113)
Phenol-d5	3160	ug/kg	96.0%	(28 - 111)
4-Bromofluorobenzene	18.7	ug/kg	85.0%	(51 - 128)
Terphenyl-d14	1430	ug/kg	87.0%	(35 - 135)

Comments:

One or more of the matrix spike compounds for the EPA 8270 analysis were recovered outside of the quality control limits due to sample matrix interferences. The LCS sample associated to this sample was within control limits.

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

Raymond J. Martrano
Laboratory Manager



Certificate of Analysis

August 10, 2007

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ARM Group Inc.
1129 W. Governor Road
Hershey, PA 17033

Lab ID #: **9695451007**
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Page: 44 Of 71

Project Name: **YORK RDA - NORTHWEST TRIANGLE**
Workorder ID: **Soils-8260B, 8270C, PCBs, Metals**

PO#: 07214
COC Number:

Sample ID: **E-SS7[2.5]**
Date Collected: 07/26/07 12:35

Matrix: Solid
Collected by: Mr. Dan Buterbaugh

Analysis Parameter	Result	Units	RDL	Method	Completed	Prep Date	By	Cntr
VOLATILE ORGANICS								
Acetone	26.3	ug/kg	23.7	8260/5035	07/31/07 14:00	07/26/07	JAH	B
Benzene	ND	ug/kg	1.9	8260/5035	07/31/07 14:00	07/26/07	JAH	B
Bromochloromethane	ND	ug/kg	1.9	8260/5035	07/31/07 14:00	07/26/07	JAH	B
Bromodichloromethane	ND	ug/kg	1.9	8260/5035	07/31/07 14:00	07/26/07	JAH	B
Bromoform	ND	ug/kg	1.9	8260/5035	07/31/07 14:00	07/26/07	JAH	B
Bromomethane	ND	ug/kg	3.8	8260/5035	07/31/07 14:00	07/26/07	JAH	B
2-Butanone	ND	ug/kg	9.5	8260/5035	07/31/07 14:00	07/26/07	JAH	B
Carbon Disulfide	ND	ug/kg	1.9	8260/5035	07/31/07 14:00	07/26/07	JAH	B
Carbon Tetrachloride	ND	ug/kg	1.9	8260/5035	07/31/07 14:00	07/26/07	JAH	B
Chlorobenzene	ND	ug/kg	1.9	8260/5035	07/31/07 14:00	07/26/07	JAH	B
Chlorodibromomethane	ND	ug/kg	1.9	8260/5035	07/31/07 14:00	07/26/07	JAH	B
Chloroethane	ND	ug/kg	1.9	8260/5035	07/31/07 14:00	07/26/07	JAH	B
Chloroform	ND	ug/kg	1.9	8260/5035	07/31/07 14:00	07/26/07	JAH	B
Chloromethane	ND	ug/kg	1.9	8260/5035	07/31/07 14:00	07/26/07	JAH	B
1,2-Dibromo-3-chloropropane	ND	ug/kg	3.8	8260/5035	07/31/07 14:00	07/26/07	JAH	B
1,2-Dibromoethane	ND	ug/kg	1.9	8260/5035	07/31/07 14:00	07/26/07	JAH	B
1,1-Dichloroethane	ND	ug/kg	1.9	8260/5035	07/31/07 14:00	07/26/07	JAH	B
1,2-Dichloroethane	ND	ug/kg	1.9	8260/5035	07/31/07 14:00	07/26/07	JAH	B
1,1-Dichloroethene	ND	ug/kg	1.9	8260/5035	07/31/07 14:00	07/26/07	JAH	B
cis-1,2-Dichloroethene	ND	ug/kg	1.9	8260/5035	07/31/07 14:00	07/26/07	JAH	B



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Page: 45 Of 71

Project Name: **YORK RDA - NORTHWEST TRIANGLE**
Workorder ID: **Soils-8260B, 8270C, PCBs, Metals**

PO#: 07214
COC Number:

Sample ID: **E-SS7[2.5]**
Date Collected: 07/26/07 12:35

Matrix: Solid
Collected by: Mr. Dan Buterbaugh

Analysis Parameter	Result	Units	RDL	Method	Completed	Prep Date	By	Cntr
VOLATILE ORGANICS (continued)								
trans-1,2-Dichloroethene	ND	ug/kg	1.9	8260/5035	07/31/07 14:00	07/26/07	JAH	B
1,2-Dichloropropane	ND	ug/kg	1.9	8260/5035	07/31/07 14:00	07/26/07	JAH	B
cis-1,3-Dichloropropene	ND	ug/kg	1.9	8260/5035	07/31/07 14:00	07/26/07	JAH	B
trans-1,3-Dichloropropene	ND	ug/kg	1.9	8260/5035	07/31/07 14:00	07/26/07	JAH	B
Ethylbenzene	ND	ug/kg	1.9	8260/5035	07/31/07 14:00	07/26/07	JAH	B
2-Hexanone	ND	ug/kg	9.5	8260/5035	07/31/07 14:00	07/26/07	JAH	B
4-Methyl-2-Pentanone(MIBK)	ND	ug/kg	9.5	8260/5035	07/31/07 14:00	07/26/07	JAH	B
Methylene Chloride	2.4	ug/kg	1.9	8260/5035	07/31/07 14:00	07/26/07	JAH	B
Styrene	ND	ug/kg	1.9	8260/5035	07/31/07 14:00	07/26/07	JAH	B
1,1,2,2-Tetrachloroethane	ND	ug/kg	1.9	8260/5035	07/31/07 14:00	07/26/07	JAH	B
Tetrachloroethene	ND	ug/kg	1.9	8260/5035	07/31/07 14:00	07/26/07	JAH	B
Toluene	ND	ug/kg	1.9	8260/5035	07/31/07 14:00	07/26/07	JAH	B
Total Xylenes	ND	ug/kg	5.7	8260/5035	07/31/07 14:00	07/26/07	JAH	B
1,1,1-Trichloroethane	ND	ug/kg	1.9	8260/5035	07/31/07 14:00	07/26/07	JAH	B
1,1,2-Trichloroethane	ND	ug/kg	1.9	8260/5035	07/31/07 14:00	07/26/07	JAH	B
Trichloroethene	ND	ug/kg	1.9	8260/5035	07/31/07 14:00	07/26/07	JAH	B
Vinyl Chloride	ND	ug/kg	1.9	8260/5035	07/31/07 14:00	07/26/07	JAH	B
o-Xylene	ND	ug/kg	1.9	8260/5035	07/31/07 14:00	07/26/07	JAH	B
mp-Xylene	ND	ug/kg	3.8	8260/5035	07/31/07 14:00	07/26/07	JAH	B



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Page: 46 Of 71

Project Name: **YORK RDA - NORTHWEST TRIANGLE**
Workorder ID: **Soils-8260B, 8270C, PCBs, Metals**

PO#: 07214
COC Number:

Sample ID: **E-SS7[2.5]**
Date Collected: 07/26/07 12:35

Matrix: Solid
Collected by: Mr. Dan Buterbaugh

Analysis Parameter	Result	Units	RDL	Method	Completed	Prep Date	By	Cntr
SEMIVOLATILES								
Acenaphthene	ND	ug/kg	83	SW846 8270C	08/01/07 14:10	07/30/07	DHF	E1
Acenaphthylene	ND	ug/kg	83	SW846 8270C	08/01/07 14:10	07/30/07	DHF	E1
Anthracene	ND	ug/kg	83	SW846 8270C	08/01/07 14:10	07/30/07	DHF	E1
Benzo(a)anthracene	ND	ug/kg	83	SW846 8270C	08/01/07 14:10	07/30/07	DHF	E1
Benzo(a)pyrene	ND	ug/kg	83	SW846 8270C	08/01/07 14:10	07/30/07	DHF	E1
Benzo(b)fluoranthene	ND	ug/kg	83	SW846 8270C	08/01/07 14:10	07/30/07	DHF	E1
Benzo(g,h,i)perylene	ND	ug/kg	83	SW846 8270C	08/01/07 14:10	07/30/07	DHF	E1
Benzo(k)fluoranthene	ND	ug/kg	83	SW846 8270C	08/01/07 14:10	07/30/07	DHF	E1
4-Bromophenyl-phenylether	ND	ug/kg	118	SW846 8270C	08/01/07 14:10	07/30/07	DHF	E1
Butylbenzylphthalate	ND	ug/kg	118	SW846 8270C	08/01/07 14:10	07/30/07	DHF	E1
Carbazole	ND	ug/kg	118	SW846 8270C	08/01/07 14:10	07/30/07	DHF	E1
4-Chloro-3-methylphenol	ND	ug/kg	320	SW846 8270C	08/01/07 14:10	07/30/07	DHF	E1
4-Chloroaniline	ND	ug/kg	320	SW846 8270C	08/01/07 14:10	07/30/07	DHF	E1
Bis(2-Chloroethoxy)methane	ND	ug/kg	118	SW846 8270C	08/01/07 14:10	07/30/07	DHF	E1
Bis(2-Chloroethyl)ether	ND	ug/kg	118	SW846 8270C	08/01/07 14:10	07/30/07	DHF	E1
bis(2-Chloroisopropyl)ether	ND	ug/kg	118	SW846 8270C	08/01/07 14:10	07/30/07	DHF	E1
2-Chloronaphthalene	ND	ug/kg	118	SW846 8270C	08/01/07 14:10	07/30/07	DHF	E1
2-Chlorophenol	ND	ug/kg	320	SW846 8270C	08/01/07 14:10	07/30/07	DHF	E1
4-Chlorophenyl-phenylether	ND	ug/kg	118	SW846 8270C	08/01/07 14:10	07/30/07	DHF	E1
Chrysene	ND	ug/kg	83	SW846 8270C	08/01/07 14:10	07/30/07	DHF	E1



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Discard: 08/24/07

Page: 47 Of 71

Project Name: **YORK RDA - NORTHWEST TRIANGLE**
Workorder ID: **Soils-8260B, 8270C, PCBs, Metals**

PO#: 07214
COC Number:

Sample ID: **E-SS7[2.5]**
Date Collected: 07/26/07 12:35

Matrix: Solid
Collected by: Mr. Dan Buterbaugh

Analysis Parameter	Result	Units	RDL	Method	Completed	Prep Date	By	Cntr
SEMIVOLATILES (continued)								
mp-Cresol	ND	ug/kg	320	SW846 8270C	08/01/07 14:10	07/30/07	DHF	E1
o-Cresol	ND	ug/kg	320	SW846 8270C	08/01/07 14:10	07/30/07	DHF	E1
Di-n-Butylphthalate	ND	ug/kg	118	SW846 8270C	08/01/07 14:10	07/30/07	DHF	E1
Di-n-Octylphthalate	ND	ug/kg	320	SW846 8270C	08/01/07 14:10	07/30/07	DHF	E1
Dibenzo(a,h)anthracene	ND	ug/kg	83	SW846 8270C	08/01/07 14:10	07/30/07	DHF	E1
Dibenzofuran	ND	ug/kg	118	SW846 8270C	08/01/07 14:10	07/30/07	DHF	E1
1,2-Dichlorobenzene	ND	ug/kg	118	SW846 8270C	08/01/07 14:10	07/30/07	DHF	E1
1,3-Dichlorobenzene	ND	ug/kg	118	SW846 8270C	08/01/07 14:10	07/30/07	DHF	E1
1,4-Dichlorobenzene	ND	ug/kg	118	SW846 8270C	08/01/07 14:10	07/30/07	DHF	E1
3,3-Dichlorobenzidine	ND	ug/kg	118	SW846 8270C	08/01/07 14:10	07/30/07	DHF	E1
2,4-Dichlorophenol	ND	ug/kg	320	SW846 8270C	08/01/07 14:10	07/30/07	DHF	E1
Diethylphthalate	ND	ug/kg	118	SW846 8270C	08/01/07 14:10	07/30/07	DHF	E1
2,4-Dimethylphenol	ND	ug/kg	320	SW846 8270C	08/01/07 14:10	07/30/07	DHF	E1
Dimethylphthalate	ND	ug/kg	118	SW846 8270C	08/01/07 14:10	07/30/07	DHF	E1
2,4-Dinitrophenol	ND	ug/kg	640	SW846 8270C	08/01/07 14:10	07/30/07	DHF	E1
2,4-Dinitrotoluene	ND	ug/kg	118	SW846 8270C	08/01/07 14:10	07/30/07	DHF	E1
2,6-Dinitrotoluene	ND	ug/kg	118	SW846 8270C	08/01/07 14:10	07/30/07	DHF	E1
bis(2-Ethylhexyl)phthalate	ND	ug/kg	118	SW846 8270C	08/01/07 14:10	07/30/07	DHF	E1
Fluoranthene	ND	ug/kg	83	SW846 8270C	08/01/07 14:10	07/30/07	DHF	E1
Fluorene	ND	ug/kg	83	SW846 8270C	08/01/07 14:10	07/30/07	DHF	E1



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Page: 48 Of 71

Project Name: **YORK RDA - NORTHWEST TRIANGLE**
Workorder ID: **Soils-8260B, 8270C, PCBs, Metals**

PO#: 07214
COC Number:

Sample ID: **E-SS7[2.5]**
Date Collected: 07/26/07 12:35

Matrix: Solid
Collected by: Mr. Dan Buterbaugh

Analysis Parameter	Result	Units	RDL	Method	Completed	Prep Date	By	Cntr
SEMIVOLATILES (continued)								
Hexachlorobenzene	ND	ug/kg	118	SW846 8270C	08/01/07 14:10	07/30/07	DHF	E1
Hexachlorobutadiene	ND	ug/kg	118	SW846 8270C	08/01/07 14:10	07/30/07	DHF	E1
Hexachlorocyclopentadiene	ND	ug/kg	320	SW846 8270C	08/01/07 14:10	07/30/07	DHF	E1
Hexachloroethane	ND	ug/kg	118	SW846 8270C	08/01/07 14:10	07/30/07	DHF	E1
Indeno(1,2,3-cd)pyrene	ND	ug/kg	83	SW846 8270C	08/01/07 14:10	07/30/07	DHF	E1
Isophorone	ND	ug/kg	118	SW846 8270C	08/01/07 14:10	07/30/07	DHF	E1
2-Methyl-4,6-dinitrophenol	ND	ug/kg	320	SW846 8270C	08/01/07 14:10	07/30/07	DHF	E1
2-Methylnaphthalene	ND	ug/kg	83	SW846 8270C	08/01/07 14:10	07/30/07	DHF	E1
Naphthalene	ND	ug/kg	83	SW846 8270C	08/01/07 14:10	07/30/07	DHF	E1
2-Nitroaniline	ND	ug/kg	118	SW846 8270C	08/01/07 14:10	07/30/07	DHF	E1
3-Nitroaniline	ND	ug/kg	320	SW846 8270C	08/01/07 14:10	07/30/07	DHF	E1
4-Nitroaniline	ND	ug/kg	320	SW846 8270C	08/01/07 14:10	07/30/07	DHF	E1
Nitrobenzene	ND	ug/kg	118	SW846 8270C	08/01/07 14:10	07/30/07	DHF	E1
2-Nitrophenol	ND	ug/kg	320	SW846 8270C	08/01/07 14:10	07/30/07	DHF	E1
4-Nitrophenol	ND	ug/kg	640	SW846 8270C	08/01/07 14:10	07/30/07	DHF	E1
N-Nitroso-di-n-propylamine	ND	ug/kg	118	SW846 8270C	08/01/07 14:10	07/30/07	DHF	E1
N-Nitrosodiphenylamine	ND	ug/kg	118	SW846 8270C	08/01/07 14:10	07/30/07	DHF	E1
Pentachlorophenol	ND	ug/kg	640	SW846 8270C	08/01/07 14:10	07/30/07	DHF	E1
Phenanthrene	ND	ug/kg	83	SW846 8270C	08/01/07 14:10	07/30/07	DHF	E1
Phenol	ND	ug/kg	320	SW846 8270C	08/01/07 14:10	07/30/07	DHF	E1



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Page: 49 Of 71

Project Name: **YORK RDA - NORTHWEST TRIANGLE**
Workorder ID: **Soils-8260B, 8270C, PCBs, Metals**

PO#: 07214
COC Number:

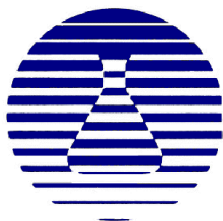
Sample ID: **E-SS7[2.5]**

Matrix: Solid

Date Collected: 07/26/07 12:35

Collected by: Mr. Dan Buterbaugh

Analysis Parameter	Result	Units	RDL	Method	Completed	Prep Date	By	Cntr
SEMIVOLATILES (continued)								
Pyrene	83	ug/kg	83	SW846 8270C	08/01/07 14:10	07/30/07	DHF	E1
1,2,4-Trichlorobenzene	ND	ug/kg	118	SW846 8270C	08/01/07 14:10	07/30/07	DHF	E1
2,4,5-Trichlorophenol	ND	ug/kg	320	SW846 8270C	08/01/07 14:10	07/30/07	DHF	E1
2,4,6-Trichlorophenol	ND	ug/kg	320	SW846 8270C	08/01/07 14:10	07/30/07	DHF	E1
WET CHEMISTRY								
Moisture	15.9	%	0.1	SM20-2540 G	07/27/07 05:45	07/27/07	KMW	E
Total Solids	84.1	%	0.1	SM20-2540 G	07/27/07 05:45	07/27/07	KMW	E
METALS								
Arsenic, Total	11	mg/kg	3	SW846 6010B	08/07/07 05:48	08/02/07	TED	E2
Barium, Total	96	mg/kg	1	SW846 6010B	08/07/07 05:48	08/02/07	TED	E2
Cadmium, Total	ND	mg/kg	0.6	SW846 6010B	08/07/07 05:48	08/02/07	TED	E2
Chromium, Total	26.4	mg/kg	1.1	SW846 6010B	08/07/07 05:48	08/02/07	TED	E2
Lead, Total	60	mg/kg	2	SW846 6010B	08/07/07 05:48	08/02/07	TED	E2
Mercury, Total	ND	mg/kg	0.21	SW846 7471B	08/09/07 08:47	08/08/07	CMD	E3
Selenium, Total	ND	mg/kg	6	SW846 6010B	08/07/07 05:48	08/02/07	TED	E2
Silver, Total	ND	mg/kg	0.6	SW846 6010B	08/07/07 05:48	08/02/07	TED	E2



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1129 W. Governor Road
Hershey, PA 17033

Lab ID #: **9695451007**
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Discard: 08/24/07

Page: 50 Of 71

Project Name: **YORK RDA - NORTHWEST TRIANGLE**
Workorder ID: **Soils-8260B, 8270C, PCBs, Metals**

PO#: 07214
COC Number:

Sample ID: **E-SS7[2.5]**

Matrix: Solid

Date Collected: 07/26/07 12:35

Collected by: Mr. Dan Buterbaugh

Surrogates	Result	Units	Recovery	Limits
2,4,6-Tribromophenol	2870	ug/kg	86.0%	(24 - 130)
1,2-Dichloroethane-d4	19.5	ug/kg	82.0%	(56 - 124)
Dibromofluoromethane	20.4	ug/kg	86.0%	(62 - 123)
Toluene-d8	22.8	ug/kg	95.0%	(59 - 131)
2-Fluorobiphenyl	1230	ug/kg	74.0%	(40 - 113)
2-Fluorophenol	2600	ug/kg	78.0%	(25 - 110)
Nitrobenzene-d5	1420	ug/kg	86.0%	(36 - 113)
Phenol-d5	2670	ug/kg	80.0%	(28 - 111)
4-Bromofluorobenzene	20.5	ug/kg	86.0%	(51 - 128)
Terphenyl-d14	1470	ug/kg	89.0%	(35 - 135)

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

Raymond J. Martrano
Laboratory Manager



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Discard: 08/24/07

Page: 51 Of 71

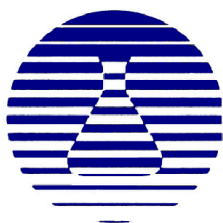
Project Name: **YORK RDA - NORTHWEST TRIANGLE**
Workorder ID: **Soils-8260B, 8270C, PCBs, Metals**

PO#: 07214
COC Number:

Sample ID: **E-SS8[2.5]**
Date Collected: 07/26/07 13:10

Matrix: Solid
Collected by: Mr. Dan Buterbaugh

Analysis Parameter	Result	Units	RDL	Method	Completed	Prep Date	By	Cntr
VOLATILE ORGANICS								
Acetone	ND	ug/kg	27.0	8260/5035	07/31/07 14:30	07/26/07	JAH	B
Benzene	ND	ug/kg	2.2	8260/5035	07/31/07 14:30	07/26/07	JAH	B
Bromochloromethane	ND	ug/kg	2.2	8260/5035	07/31/07 14:30	07/26/07	JAH	B
Bromodichloromethane	ND	ug/kg	2.2	8260/5035	07/31/07 14:30	07/26/07	JAH	B
Bromoform	ND	ug/kg	2.2	8260/5035	07/31/07 14:30	07/26/07	JAH	B
Bromomethane	ND	ug/kg	4.3	8260/5035	07/31/07 14:30	07/26/07	JAH	B
2-Butanone	ND	ug/kg	10.8	8260/5035	07/31/07 14:30	07/26/07	JAH	B
Carbon Disulfide	ND	ug/kg	2.2	8260/5035	07/31/07 14:30	07/26/07	JAH	B
Carbon Tetrachloride	ND	ug/kg	2.2	8260/5035	07/31/07 14:30	07/26/07	JAH	B
Chlorobenzene	ND	ug/kg	2.2	8260/5035	07/31/07 14:30	07/26/07	JAH	B
Chlorodibromomethane	ND	ug/kg	2.2	8260/5035	07/31/07 14:30	07/26/07	JAH	B
Chloroethane	ND	ug/kg	2.2	8260/5035	07/31/07 14:30	07/26/07	JAH	B
Chloroform	ND	ug/kg	2.2	8260/5035	07/31/07 14:30	07/26/07	JAH	B
Chloromethane	ND	ug/kg	2.2	8260/5035	07/31/07 14:30	07/26/07	JAH	B
1,2-Dibromo-3-chloropropane	ND	ug/kg	4.3	8260/5035	07/31/07 14:30	07/26/07	JAH	B
1,2-Dibromoethane	ND	ug/kg	2.2	8260/5035	07/31/07 14:30	07/26/07	JAH	B
1,1-Dichloroethane	ND	ug/kg	2.2	8260/5035	07/31/07 14:30	07/26/07	JAH	B
1,2-Dichloroethane	ND	ug/kg	2.2	8260/5035	07/31/07 14:30	07/26/07	JAH	B
1,1-Dichloroethene	ND	ug/kg	2.2	8260/5035	07/31/07 14:30	07/26/07	JAH	B
cis-1,2-Dichloroethene	ND	ug/kg	2.2	8260/5035	07/31/07 14:30	07/26/07	JAH	B



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August 10, 2007

Mr. Dan Buterbaugh
ARM Group Inc.
1129 W. Governor Road
Hershey, PA 17033

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Page: 52 Of 71

Project Name: **YORK RDA - NORTHWEST TRIANGLE**
Workorder ID: **Soils-8260B, 8270C, PCBs, Metals**

PO#: 07214
COC Number:

Sample ID: **E-SS8[2.5]**
Date Collected: 07/26/07 13:10

Matrix: Solid
Collected by: Mr. Dan Buterbaugh

Analysis Parameter	Result	Units	RDL	Method	Completed	Prep Date	By	Cntr
VOLATILE ORGANICS (continued)								
trans-1,2-Dichloroethene	ND	ug/kg	2.2	8260/5035	07/31/07 14:30	07/26/07	JAH	B
1,2-Dichloropropane	ND	ug/kg	2.2	8260/5035	07/31/07 14:30	07/26/07	JAH	B
cis-1,3-Dichloropropene	ND	ug/kg	2.2	8260/5035	07/31/07 14:30	07/26/07	JAH	B
trans-1,3-Dichloropropene	ND	ug/kg	2.2	8260/5035	07/31/07 14:30	07/26/07	JAH	B
Ethylbenzene	ND	ug/kg	2.2	8260/5035	07/31/07 14:30	07/26/07	JAH	B
2-Hexanone	ND	ug/kg	10.8	8260/5035	07/31/07 14:30	07/26/07	JAH	B
4-Methyl-2-Pentanone(MIBK)	ND	ug/kg	10.8	8260/5035	07/31/07 14:30	07/26/07	JAH	B
Methylene Chloride	ND	ug/kg	2.2	8260/5035	07/31/07 14:30	07/26/07	JAH	B
Styrene	ND	ug/kg	2.2	8260/5035	07/31/07 14:30	07/26/07	JAH	B
1,1,2,2-Tetrachloroethane	ND	ug/kg	2.2	8260/5035	07/31/07 14:30	07/26/07	JAH	B
Tetrachloroethene	ND	ug/kg	2.2	8260/5035	07/31/07 14:30	07/26/07	JAH	B
Toluene	ND	ug/kg	2.2	8260/5035	07/31/07 14:30	07/26/07	JAH	B
Total Xylenes	ND	ug/kg	6.5	8260/5035	07/31/07 14:30	07/26/07	JAH	B
1,1,1-Trichloroethane	ND	ug/kg	2.2	8260/5035	07/31/07 14:30	07/26/07	JAH	B
1,1,2-Trichloroethane	ND	ug/kg	2.2	8260/5035	07/31/07 14:30	07/26/07	JAH	B
Trichloroethene	ND	ug/kg	2.2	8260/5035	07/31/07 14:30	07/26/07	JAH	B
Vinyl Chloride	ND	ug/kg	2.2	8260/5035	07/31/07 14:30	07/26/07	JAH	B
o-Xylene	ND	ug/kg	2.2	8260/5035	07/31/07 14:30	07/26/07	JAH	B
mp-Xylene	ND	ug/kg	4.3	8260/5035	07/31/07 14:30	07/26/07	JAH	B



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Page: 53 Of 71

Project Name: **YORK RDA - NORTHWEST TRIANGLE**
Workorder ID: **Soils-8260B, 8270C, PCBs, Metals**

PO#: 07214
COC Number:

Sample ID: **E-SS8[2.5]**
Date Collected: 07/26/07 13:10

Matrix: Solid
Collected by: Mr. Dan Buterbaugh

Analysis Parameter	Result	Units	RDL	Method	Completed	Prep Date	By	Cntr
SEMIVOLATILES								
Acenaphthene	ND	ug/kg	83	SW846 8270C	08/01/07 14:59	07/30/07	DHF	E1
Acenaphthylene	ND	ug/kg	83	SW846 8270C	08/01/07 14:59	07/30/07	DHF	E1
Anthracene	ND	ug/kg	83	SW846 8270C	08/01/07 14:59	07/30/07	DHF	E1
Benzo(a)anthracene	107	ug/kg	83	SW846 8270C	08/01/07 14:59	07/30/07	DHF	E1
Benzo(a)pyrene	100	ug/kg	83	SW846 8270C	08/01/07 14:59	07/30/07	DHF	E1
Benzo(b)fluoranthene	101	ug/kg	83	SW846 8270C	08/01/07 14:59	07/30/07	DHF	E1
Benzo(g,h,i)perylene	ND	ug/kg	83	SW846 8270C	08/01/07 14:59	07/30/07	DHF	E1
Benzo(k)fluoranthene	120	ug/kg	83	SW846 8270C	08/01/07 14:59	07/30/07	DHF	E1
4-Bromophenyl-phenylether	ND	ug/kg	118	SW846 8270C	08/01/07 14:59	07/30/07	DHF	E1
Butylbenzylphthalate	ND	ug/kg	118	SW846 8270C	08/01/07 14:59	07/30/07	DHF	E1
Carbazole	ND	ug/kg	118	SW846 8270C	08/01/07 14:59	07/30/07	DHF	E1
4-Chloro-3-methylphenol	ND	ug/kg	319	SW846 8270C	08/01/07 14:59	07/30/07	DHF	E1
4-Chloroaniline	ND	ug/kg	319	SW846 8270C	08/01/07 14:59	07/30/07	DHF	E1
Bis(2-Chloroethoxy)methane	ND	ug/kg	118	SW846 8270C	08/01/07 14:59	07/30/07	DHF	E1
Bis(2-Chloroethyl)ether	ND	ug/kg	118	SW846 8270C	08/01/07 14:59	07/30/07	DHF	E1
bis(2-Chloroisopropyl)ether	ND	ug/kg	118	SW846 8270C	08/01/07 14:59	07/30/07	DHF	E1
2-Chloronaphthalene	ND	ug/kg	118	SW846 8270C	08/01/07 14:59	07/30/07	DHF	E1
2-Chlorophenol	ND	ug/kg	319	SW846 8270C	08/01/07 14:59	07/30/07	DHF	E1
4-Chlorophenyl-phenylether	ND	ug/kg	118	SW846 8270C	08/01/07 14:59	07/30/07	DHF	E1
Chrysene	189	ug/kg	83	SW846 8270C	08/01/07 14:59	07/30/07	DHF	E1



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Received: 07/26/07 16:15
Discard: 08/24/07

Page: 54 Of 71

Project Name: **YORK RDA - NORTHWEST TRIANGLE**
Workorder ID: **Soils-8260B, 8270C, PCBs, Metals**

PO#: 07214
COC Number:

Sample ID: **E-SS8[2.5]**
Date Collected: 07/26/07 13:10

Matrix: Solid
Collected by: Mr. Dan Buterbaugh

Analysis Parameter	Result	Units	RDL	Method	Completed	Prep Date	By	Cntr
SEMIVOLATILES (continued)								
mp-Cresol	ND	ug/kg	319	SW846 8270C	08/01/07 14:59	07/30/07	DHF	E1
o-Cresol	ND	ug/kg	319	SW846 8270C	08/01/07 14:59	07/30/07	DHF	E1
Di-n-Butylphthalate	ND	ug/kg	118	SW846 8270C	08/01/07 14:59	07/30/07	DHF	E1
Di-n-Octylphthalate	ND	ug/kg	319	SW846 8270C	08/01/07 14:59	07/30/07	DHF	E1
Dibenzo(a,h)anthracene	ND	ug/kg	83	SW846 8270C	08/01/07 14:59	07/30/07	DHF	E1
Dibenzofuran	ND	ug/kg	118	SW846 8270C	08/01/07 14:59	07/30/07	DHF	E1
1,2-Dichlorobenzene	ND	ug/kg	118	SW846 8270C	08/01/07 14:59	07/30/07	DHF	E1
1,3-Dichlorobenzene	ND	ug/kg	118	SW846 8270C	08/01/07 14:59	07/30/07	DHF	E1
1,4-Dichlorobenzene	ND	ug/kg	118	SW846 8270C	08/01/07 14:59	07/30/07	DHF	E1
3,3-Dichlorobenzidine	ND	ug/kg	118	SW846 8270C	08/01/07 14:59	07/30/07	DHF	E1
2,4-Dichlorophenol	ND	ug/kg	319	SW846 8270C	08/01/07 14:59	07/30/07	DHF	E1
Diethylphthalate	ND	ug/kg	118	SW846 8270C	08/01/07 14:59	07/30/07	DHF	E1
2,4-Dimethylphenol	ND	ug/kg	319	SW846 8270C	08/01/07 14:59	07/30/07	DHF	E1
Dimethylphthalate	ND	ug/kg	118	SW846 8270C	08/01/07 14:59	07/30/07	DHF	E1
2,4-Dinitrophenol	ND	ug/kg	638	SW846 8270C	08/01/07 14:59	07/30/07	DHF	E1
2,4-Dinitrotoluene	ND	ug/kg	118	SW846 8270C	08/01/07 14:59	07/30/07	DHF	E1
2,6-Dinitrotoluene	ND	ug/kg	118	SW846 8270C	08/01/07 14:59	07/30/07	DHF	E1
bis(2-Ethylhexyl)phthalate	ND	ug/kg	118	SW846 8270C	08/01/07 14:59	07/30/07	DHF	E1
Fluoranthene	240	ug/kg	83	SW846 8270C	08/01/07 14:59	07/30/07	DHF	E1
Fluorene	ND	ug/kg	83	SW846 8270C	08/01/07 14:59	07/30/07	DHF	E1



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Lab ID #: **9695451008**
Received: 07/26/07 16:15
Discard: 08/24/07

Page: 55 Of 71

Project Name: **YORK RDA - NORTHWEST TRIANGLE**
Workorder ID: **Soils-8260B, 8270C, PCBs, Metals**

PO#: 07214
COC Number:

Sample ID: **E-SS8[2.5]**

Matrix: Solid

Date Collected: 07/26/07 13:10

Collected by: Mr. Dan Buterbaugh

Analysis Parameter	Result	Units	RDL	Method	Completed	Prep Date	By	Cntr
SEMIVOLATILES (continued)								
Hexachlorobenzene	ND	ug/kg	118	SW846 8270C	08/01/07 14:59	07/30/07	DHF	E1
Hexachlorobutadiene	ND	ug/kg	118	SW846 8270C	08/01/07 14:59	07/30/07	DHF	E1
Hexachlorocyclopentadiene	ND	ug/kg	319	SW846 8270C	08/01/07 14:59	07/30/07	DHF	E1
Hexachloroethane	ND	ug/kg	118	SW846 8270C	08/01/07 14:59	07/30/07	DHF	E1
Indeno(1,2,3-cd)pyrene	ND	ug/kg	83	SW846 8270C	08/01/07 14:59	07/30/07	DHF	E1
Isophorone	ND	ug/kg	118	SW846 8270C	08/01/07 14:59	07/30/07	DHF	E1
2-Methyl-4,6-dinitrophenol	ND	ug/kg	319	SW846 8270C	08/01/07 14:59	07/30/07	DHF	E1
2-Methylnaphthalene	ND	ug/kg	83	SW846 8270C	08/01/07 14:59	07/30/07	DHF	E1
Naphthalene	ND	ug/kg	83	SW846 8270C	08/01/07 14:59	07/30/07	DHF	E1
2-Nitroaniline	ND	ug/kg	118	SW846 8270C	08/01/07 14:59	07/30/07	DHF	E1
3-Nitroaniline	ND	ug/kg	319	SW846 8270C	08/01/07 14:59	07/30/07	DHF	E1
4-Nitroaniline	ND	ug/kg	319	SW846 8270C	08/01/07 14:59	07/30/07	DHF	E1
Nitrobenzene	ND	ug/kg	118	SW846 8270C	08/01/07 14:59	07/30/07	DHF	E1
2-Nitrophenol	ND	ug/kg	319	SW846 8270C	08/01/07 14:59	07/30/07	DHF	E1
4-Nitrophenol	ND	ug/kg	638	SW846 8270C	08/01/07 14:59	07/30/07	DHF	E1
N-Nitroso-di-n-propylamine	ND	ug/kg	118	SW846 8270C	08/01/07 14:59	07/30/07	DHF	E1
N-Nitrosodiphenylamine	ND	ug/kg	118	SW846 8270C	08/01/07 14:59	07/30/07	DHF	E1
Pentachlorophenol	ND	ug/kg	638	SW846 8270C	08/01/07 14:59	07/30/07	DHF	E1
Phenanthrene	235	ug/kg	83	SW846 8270C	08/01/07 14:59	07/30/07	DHF	E1
Phenol	ND	ug/kg	319	SW846 8270C	08/01/07 14:59	07/30/07	DHF	E1



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Received: 07/26/07 16:15
Discard: 08/24/07

Page: 56 Of 71

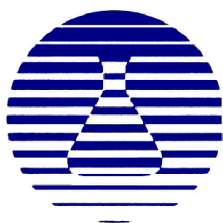
Project Name: **YORK RDA - NORTHWEST TRIANGLE**
Workorder ID: **Soils-8260B,8270C,PCBs,Metals**

PO#: 07214
COC Number:

Sample ID: **E-SS8[2.5]**
Date Collected: 07/26/07 13:10

Matrix: Solid
Collected by: Mr. Dan Buterbaugh

Analysis Parameter	Result	Units	RDL	Method	Completed	Prep Date	By	Cntr
SEMIVOLATILES (continued)								
Pyrene	234	ug/kg	83	SW846 8270C	08/01/07 14:59	07/30/07	DHF	E1
1,2,4-Trichlorobenzene	ND	ug/kg	118	SW846 8270C	08/01/07 14:59	07/30/07	DHF	E1
2,4,5-Trichlorophenol	ND	ug/kg	319	SW846 8270C	08/01/07 14:59	07/30/07	DHF	E1
2,4,6-Trichlorophenol	ND	ug/kg	319	SW846 8270C	08/01/07 14:59	07/30/07	DHF	E1
WET CHEMISTRY								
Moisture	16.2	%	0.1	SM20-2540 G	07/27/07 05:45	07/27/07	KMW	E
Total Solids	83.8	%	0.1	SM20-2540 G	07/27/07 05:45	07/27/07	KMW	E
METALS								
Arsenic, Total	18	mg/kg	2	SW846 6010B	08/07/07 05:52	08/02/07	TED	E2
Barium, Total	84	mg/kg	0.9	SW846 6010B	08/07/07 05:52	08/02/07	TED	E2
Cadmium, Total	ND	mg/kg	0.5	SW846 6010B	08/07/07 05:52	08/02/07	TED	E2
Chromium, Total	19.7	mg/kg	0.9	SW846 6010B	08/07/07 05:52	08/02/07	TED	E2
Lead, Total	1430	mg/kg	2	SW846 6010B	08/07/07 05:52	08/02/07	TED	E2
Mercury, Total	ND	mg/kg	0.23	SW846 7471B	08/09/07 08:51	08/08/07	CMD	E3
Selenium, Total	ND	mg/kg	5	SW846 6010B	08/07/07 05:52	08/02/07	TED	E2
Silver, Total	ND	mg/kg	0.5	SW846 6010B	08/07/07 05:52	08/02/07	TED	E2



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Lab ID #: **9695451008**
Received: 07/26/07 16:15
Discard: 08/24/07

Page: 57 Of 71

Project Name: **YORK RDA - NORTHWEST TRIANGLE**
Workorder ID: **Soils-8260B, 8270C, PCBs, Metals**

PO#: 07214
COC Number:

Sample ID: **E-SS8[2.5]**

Matrix: Solid

Date Collected: 07/26/07 13:10

Collected by: Mr. Dan Buterbaugh

Surrogates	Result	Units	Recovery	Limits
2,4,6-Tribromophenol	2810	ug/kg	85.0%	(24 - 130)
1,2-Dichloroethane-d4	22.7	ug/kg	84.0%	(56 - 124)
Dibromofluoromethane	23.1	ug/kg	85.0%	(62 - 123)
Toluene-d8	26.7	ug/kg	98.0%	(59 - 131)
2-Fluorobiphenyl	1320	ug/kg	80.0%	(40 - 113)
2-Fluorophenol	2710	ug/kg	82.0%	(25 - 110)
Nitrobenzene-d5	1510	ug/kg	92.0%	(36 - 113)
Phenol-d5	2780	ug/kg	84.0%	(28 - 111)
4-Bromofluorobenzene	26.3	ug/kg	97.0%	(51 - 128)
Terphenyl-d14	1550	ug/kg	94.0%	(35 - 135)

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Raymond J. Martrano
Laboratory Manager



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Discard: 08/24/07

Page: 58 Of 71

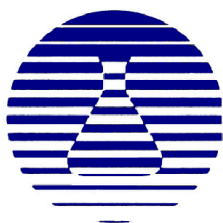
Project Name: **YORK RDA - NORTHWEST TRIANGLE**
Workorder ID: **Soils-8260B, 8270C, PCBs, Metals**

PO#: 07214
COC Number:

Sample ID: **E-SS9[2.5]**
Date Collected: 07/26/07 13:35

Matrix: Solid
Collected by: Mr. Dan Buterbaugh

Analysis Parameter	Result	Units	RDL	Method	Completed	Prep Date	By	Cntr
VOLATILE ORGANICS								
Acetone	ND	ug/kg	22.9	8260/5035	08/08/07 20:11	07/26/07	DXN	C
Benzene	ND	ug/kg	1.8	8260/5035	08/08/07 20:11	07/26/07	DXN	C
Bromochloromethane	ND	ug/kg	1.8	8260/5035	08/08/07 20:11	07/26/07	DXN	C
Bromodichloromethane	ND	ug/kg	1.8	8260/5035	08/08/07 20:11	07/26/07	DXN	C
Bromoform	ND	ug/kg	1.8	8260/5035	08/08/07 20:11	07/26/07	DXN	C
Bromomethane	ND	ug/kg	3.7	8260/5035	08/08/07 20:11	07/26/07	DXN	C
2-Butanone	ND	ug/kg	9.1	8260/5035	08/08/07 20:11	07/26/07	DXN	C
Carbon Disulfide	ND	ug/kg	1.8	8260/5035	08/08/07 20:11	07/26/07	DXN	C
Carbon Tetrachloride	ND	ug/kg	1.8	8260/5035	08/08/07 20:11	07/26/07	DXN	C
Chlorobenzene	ND	ug/kg	1.8	8260/5035	08/08/07 20:11	07/26/07	DXN	C
Chlorodibromomethane	ND	ug/kg	1.8	8260/5035	08/08/07 20:11	07/26/07	DXN	C
Chloroethane	ND	ug/kg	1.8	8260/5035	08/08/07 20:11	07/26/07	DXN	C
Chloroform	ND	ug/kg	1.8	8260/5035	08/08/07 20:11	07/26/07	DXN	C
Chloromethane	ND	ug/kg	1.8	8260/5035	08/08/07 20:11	07/26/07	DXN	C
1,2-Dibromo-3-chloropropane	ND	ug/kg	3.7	8260/5035	08/08/07 20:11	07/26/07	DXN	C
1,2-Dibromoethane	ND	ug/kg	1.8	8260/5035	08/08/07 20:11	07/26/07	DXN	C
1,1-Dichloroethane	ND	ug/kg	1.8	8260/5035	08/08/07 20:11	07/26/07	DXN	C
1,2-Dichloroethane	ND	ug/kg	1.8	8260/5035	08/08/07 20:11	07/26/07	DXN	C
1,1-Dichloroethene	ND	ug/kg	1.8	8260/5035	08/08/07 20:11	07/26/07	DXN	C
cis-1,2-Dichloroethene	ND	ug/kg	1.8	8260/5035	08/08/07 20:11	07/26/07	DXN	C



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August 10, 2007

Mr. Dan Buterbaugh
ARM Group Inc.
1129 W. Governor Road
Hershey, PA 17033

Lab ID #: **9695451009**
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Discard: 08/24/07

Page: 59 Of 71

Project Name: **YORK RDA - NORTHWEST TRIANGLE**
Workorder ID: **Soils-8260B, 8270C, PCBs, Metals**

PO#: 07214
COC Number:

Sample ID: **E-SS9[2.5]**
Date Collected: 07/26/07 13:35

Matrix: Solid
Collected by: Mr. Dan Buterbaugh

Analysis Parameter	Result	Units	RDL	Method	Completed	Prep Date	By	Cntr
VOLATILE ORGANICS (continued)								
trans-1,2-Dichloroethene	ND	ug/kg	1.8	8260/5035	08/08/07 20:11	07/26/07	DXN	C
1,2-Dichloropropane	ND	ug/kg	1.8	8260/5035	08/08/07 20:11	07/26/07	DXN	C
cis-1,3-Dichloropropene	ND	ug/kg	1.8	8260/5035	08/08/07 20:11	07/26/07	DXN	C
trans-1,3-Dichloropropene	ND	ug/kg	1.8	8260/5035	08/08/07 20:11	07/26/07	DXN	C
Ethylbenzene	ND	ug/kg	1.8	8260/5035	08/08/07 20:11	07/26/07	DXN	C
2-Hexanone	ND	ug/kg	9.1	8260/5035	08/08/07 20:11	07/26/07	DXN	C
4-Methyl-2-Pentanone(MIBK)	ND	ug/kg	9.1	8260/5035	08/08/07 20:11	07/26/07	DXN	C
Methylene Chloride	ND	ug/kg	1.8	8260/5035	08/08/07 20:11	07/26/07	DXN	C
Styrene	ND	ug/kg	1.8	8260/5035	08/08/07 20:11	07/26/07	DXN	C
1,1,2,2-Tetrachloroethane	ND	ug/kg	1.8	8260/5035	08/08/07 20:11	07/26/07	DXN	C
Tetrachloroethene	ND	ug/kg	1.8	8260/5035	08/08/07 20:11	07/26/07	DXN	C
Toluene	ND	ug/kg	1.8	8260/5035	08/08/07 20:11	07/26/07	DXN	C
Total Xylenes	ND	ug/kg	5.5	8260/5035	08/08/07 20:11	07/26/07	DXN	C
1,1,1-Trichloroethane	ND	ug/kg	1.8	8260/5035	08/08/07 20:11	07/26/07	DXN	C
1,1,2-Trichloroethane	ND	ug/kg	1.8	8260/5035	08/08/07 20:11	07/26/07	DXN	C
Trichloroethene	ND	ug/kg	1.8	8260/5035	08/08/07 20:11	07/26/07	DXN	C
Vinyl Chloride	ND	ug/kg	1.8	8260/5035	08/08/07 20:11	07/26/07	DXN	C
o-Xylene	ND	ug/kg	1.8	8260/5035	08/08/07 20:11	07/26/07	DXN	C
mp-Xylene	ND	ug/kg	3.7	8260/5035	08/08/07 20:11	07/26/07	DXN	C



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Lab ID #: **9695451009**
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Page: 60 Of 71

Project Name: **YORK RDA - NORTHWEST TRIANGLE**
Workorder ID: **Soils-8260B, 8270C, PCBs, Metals**

PO#: 07214
COC Number:

Sample ID: **E-SS9[2.5]**
Date Collected: 07/26/07 13:35

Matrix: Solid
Collected by: Mr. Dan Buterbaugh

Analysis Parameter	Result	Units	RDL	Method	Completed	Prep Date	By	Cntr
SEMIVOLATILES								
Acenaphthene	ND	ug/kg	82	SW846 8270C	08/01/07 15:47	07/30/07	DHF	E1
Acenaphthylene	ND	ug/kg	82	SW846 8270C	08/01/07 15:47	07/30/07	DHF	E1
Anthracene	ND	ug/kg	82	SW846 8270C	08/01/07 15:47	07/30/07	DHF	E1
Benzo(a)anthracene	155	ug/kg	82	SW846 8270C	08/01/07 15:47	07/30/07	DHF	E1
Benzo(a)pyrene	188	ug/kg	82	SW846 8270C	08/01/07 15:47	07/30/07	DHF	E1
Benzo(b)fluoranthene	189	ug/kg	82	SW846 8270C	08/01/07 15:47	07/30/07	DHF	E1
Benzo(g,h,i)perylene	163	ug/kg	82	SW846 8270C	08/01/07 15:47	07/30/07	DHF	E1
Benzo(k)fluoranthene	192	ug/kg	82	SW846 8270C	08/01/07 15:47	07/30/07	DHF	E1
4-Bromophenyl-phenylether	ND	ug/kg	117	SW846 8270C	08/01/07 15:47	07/30/07	DHF	E1
Butylbenzylphthalate	ND	ug/kg	117	SW846 8270C	08/01/07 15:47	07/30/07	DHF	E1
Carbazole	ND	ug/kg	117	SW846 8270C	08/01/07 15:47	07/30/07	DHF	E1
4-Chloro-3-methylphenol	ND	ug/kg	316	SW846 8270C	08/01/07 15:47	07/30/07	DHF	E1
4-Chloroaniline	ND	ug/kg	316	SW846 8270C	08/01/07 15:47	07/30/07	DHF	E1
Bis(2-Chloroethoxy)methane	ND	ug/kg	117	SW846 8270C	08/01/07 15:47	07/30/07	DHF	E1
Bis(2-Chloroethyl)ether	ND	ug/kg	117	SW846 8270C	08/01/07 15:47	07/30/07	DHF	E1
bis(2-Chloroisopropyl)ether	ND	ug/kg	117	SW846 8270C	08/01/07 15:47	07/30/07	DHF	E1
2-Chloronaphthalene	ND	ug/kg	117	SW846 8270C	08/01/07 15:47	07/30/07	DHF	E1
2-Chlorophenol	ND	ug/kg	316	SW846 8270C	08/01/07 15:47	07/30/07	DHF	E1
4-Chlorophenyl-phenylether	ND	ug/kg	117	SW846 8270C	08/01/07 15:47	07/30/07	DHF	E1
Chrysene	263	ug/kg	82	SW846 8270C	08/01/07 15:47	07/30/07	DHF	E1



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Discard: 08/24/07

Page: 61 Of 71

Project Name: **YORK RDA - NORTHWEST TRIANGLE**
Workorder ID: **Soils-8260B, 8270C, PCBs, Metals**

PO#: 07214
COC Number:

Sample ID: **E-SS9[2.5]**
Date Collected: 07/26/07 13:35

Matrix: Solid
Collected by: Mr. Dan Buterbaugh

Analysis Parameter	Result	Units	RDL	Method	Completed	Prep Date	By	Cntr
SEMIVOLATILES (continued)								
mp-Cresol	ND	ug/kg	316	SW846 8270C	08/01/07 15:47	07/30/07	DHF	E1
o-Cresol	ND	ug/kg	316	SW846 8270C	08/01/07 15:47	07/30/07	DHF	E1
Di-n-Butylphthalate	ND	ug/kg	117	SW846 8270C	08/01/07 15:47	07/30/07	DHF	E1
Di-n-Octylphthalate	ND	ug/kg	316	SW846 8270C	08/01/07 15:47	07/30/07	DHF	E1
Dibenzo(a,h)anthracene	ND	ug/kg	82	SW846 8270C	08/01/07 15:47	07/30/07	DHF	E1
Dibenzofuran	ND	ug/kg	117	SW846 8270C	08/01/07 15:47	07/30/07	DHF	E1
1,2-Dichlorobenzene	ND	ug/kg	117	SW846 8270C	08/01/07 15:47	07/30/07	DHF	E1
1,3-Dichlorobenzene	ND	ug/kg	117	SW846 8270C	08/01/07 15:47	07/30/07	DHF	E1
1,4-Dichlorobenzene	ND	ug/kg	117	SW846 8270C	08/01/07 15:47	07/30/07	DHF	E1
3,3-Dichlorobenzidine	ND	ug/kg	117	SW846 8270C	08/01/07 15:47	07/30/07	DHF	E1
2,4-Dichlorophenol	ND	ug/kg	316	SW846 8270C	08/01/07 15:47	07/30/07	DHF	E1
Diethylphthalate	ND	ug/kg	117	SW846 8270C	08/01/07 15:47	07/30/07	DHF	E1
2,4-Dimethylphenol	ND	ug/kg	316	SW846 8270C	08/01/07 15:47	07/30/07	DHF	E1
Dimethylphthalate	ND	ug/kg	117	SW846 8270C	08/01/07 15:47	07/30/07	DHF	E1
2,4-Dinitrophenol	ND	ug/kg	633	SW846 8270C	08/01/07 15:47	07/30/07	DHF	E1
2,4-Dinitrotoluene	ND	ug/kg	117	SW846 8270C	08/01/07 15:47	07/30/07	DHF	E1
2,6-Dinitrotoluene	ND	ug/kg	117	SW846 8270C	08/01/07 15:47	07/30/07	DHF	E1
bis(2-Ethylhexyl)phthalate	ND	ug/kg	117	SW846 8270C	08/01/07 15:47	07/30/07	DHF	E1
Fluoranthene	401	ug/kg	82	SW846 8270C	08/01/07 15:47	07/30/07	DHF	E1
Fluorene	ND	ug/kg	82	SW846 8270C	08/01/07 15:47	07/30/07	DHF	E1



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Discard: 08/24/07

Page: 62 Of 71

Project Name: **YORK RDA - NORTHWEST TRIANGLE**
Workorder ID: **Soils-8260B, 8270C, PCBs, Metals**

PO#: 07214
COC Number:

Sample ID: **E-SS9[2.5]**

Matrix: Solid

Date Collected: 07/26/07 13:35

Collected by: Mr. Dan Buterbaugh

Analysis Parameter	Result	Units	RDL	Method	Completed	Prep Date	By	Cntr
SEMIVOLATILES (continued)								
Hexachlorobenzene	ND	ug/kg	117	SW846 8270C	08/01/07 15:47	07/30/07	DHF	E1
Hexachlorobutadiene	ND	ug/kg	117	SW846 8270C	08/01/07 15:47	07/30/07	DHF	E1
Hexachlorocyclopentadiene	ND	ug/kg	316	SW846 8270C	08/01/07 15:47	07/30/07	DHF	E1
Hexachloroethane	ND	ug/kg	117	SW846 8270C	08/01/07 15:47	07/30/07	DHF	E1
Indeno(1,2,3-cd)pyrene	138	ug/kg	82	SW846 8270C	08/01/07 15:47	07/30/07	DHF	E1
Isophorone	ND	ug/kg	117	SW846 8270C	08/01/07 15:47	07/30/07	DHF	E1
2-Methyl-4,6-dinitrophenol	ND	ug/kg	316	SW846 8270C	08/01/07 15:47	07/30/07	DHF	E1
2-Methylnaphthalene	ND	ug/kg	82	SW846 8270C	08/01/07 15:47	07/30/07	DHF	E1
Naphthalene	ND	ug/kg	82	SW846 8270C	08/01/07 15:47	07/30/07	DHF	E1
2-Nitroaniline	ND	ug/kg	117	SW846 8270C	08/01/07 15:47	07/30/07	DHF	E1
3-Nitroaniline	ND	ug/kg	316	SW846 8270C	08/01/07 15:47	07/30/07	DHF	E1
4-Nitroaniline	ND	ug/kg	316	SW846 8270C	08/01/07 15:47	07/30/07	DHF	E1
Nitrobenzene	ND	ug/kg	117	SW846 8270C	08/01/07 15:47	07/30/07	DHF	E1
2-Nitrophenol	ND	ug/kg	316	SW846 8270C	08/01/07 15:47	07/30/07	DHF	E1
4-Nitrophenol	ND	ug/kg	633	SW846 8270C	08/01/07 15:47	07/30/07	DHF	E1
N-Nitroso-di-n-propylamine	ND	ug/kg	117	SW846 8270C	08/01/07 15:47	07/30/07	DHF	E1
N-Nitrosodiphenylamine	ND	ug/kg	117	SW846 8270C	08/01/07 15:47	07/30/07	DHF	E1
Pentachlorophenol	ND	ug/kg	633	SW846 8270C	08/01/07 15:47	07/30/07	DHF	E1
Phenanthrene	271	ug/kg	82	SW846 8270C	08/01/07 15:47	07/30/07	DHF	E1
Phenol	ND	ug/kg	316	SW846 8270C	08/01/07 15:47	07/30/07	DHF	E1



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Page: 63 Of 71

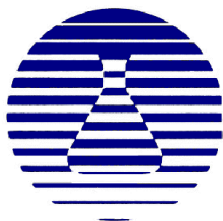
Project Name: **YORK RDA - NORTHWEST TRIANGLE**
Workorder ID: **Soils-8260B,8270C,PCBs,Metals**

PO#: 07214
COC Number:

Sample ID: **E-SS9[2.5]**
Date Collected: 07/26/07 13:35

Matrix: Solid
Collected by: Mr. Dan Buterbaugh

Analysis Parameter	Result	Units	RDL	Method	Completed	Prep Date	By	Cntr
SEMIVOLATILES (continued)								
Pyrene	470	ug/kg	82	SW846 8270C	08/01/07 15:47	07/30/07	DHF	E1
1,2,4-Trichlorobenzene	ND	ug/kg	117	SW846 8270C	08/01/07 15:47	07/30/07	DHF	E1
2,4,5-Trichlorophenol	ND	ug/kg	316	SW846 8270C	08/01/07 15:47	07/30/07	DHF	E1
2,4,6-Trichlorophenol	ND	ug/kg	316	SW846 8270C	08/01/07 15:47	07/30/07	DHF	E1
WET CHEMISTRY								
Moisture	15.2	%	0.1	SM20-2540 G	07/27/07 05:45	07/27/07	KMW	E
Total Solids	84.8	%	0.1	SM20-2540 G	07/27/07 05:45	07/27/07	KMW	E
METALS								
Arsenic, Total	46	mg/kg	2	SW846 6010B	08/07/07 05:57	08/02/07	TED	E2
Barium, Total	98	mg/kg	0.7	SW846 6010B	08/07/07 05:57	08/02/07	TED	E2
Cadmium, Total	0.6	mg/kg	0.4	SW846 6010B	08/07/07 05:57	08/02/07	TED	E2
Chromium, Total	37.0	mg/kg	0.7	SW846 6010B	08/07/07 05:57	08/02/07	TED	E2
Lead, Total	199	mg/kg	1	SW846 6010B	08/07/07 05:57	08/02/07	TED	E2
Mercury, Total	ND	mg/kg	0.23	SW846 7471B	08/09/07 08:55	08/08/07	CMD	E3
Selenium, Total	ND	mg/kg	4	SW846 6010B	08/07/07 05:57	08/02/07	TED	E2
Silver, Total	ND	mg/kg	0.4	SW846 6010B	08/07/07 05:57	08/02/07	TED	E2



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Lab ID #: **9695451009**
Received: 07/26/07 16:15
Discard: 08/24/07

Page: 64 Of 71

Project Name: **YORK RDA - NORTHWEST TRIANGLE**
Workorder ID: **Soils-8260B, 8270C, PCBs, Metals**

PO#: 07214
COC Number:

Sample ID: **E-SS9[2.5]**

Matrix: Solid

Date Collected: 07/26/07 13:35

Collected by: Mr. Dan Buterbaugh

Surrogates	Result	Units	Recovery	Limits
2,4,6-Tribromophenol	2980	ug/kg	90.0%	(24 - 130)
1,2-Dichloroethane-d4	19.3	ug/kg	83.0%	(56 - 124)
Dibromofluoromethane	18	ug/kg	78.0%	(62 - 123)
Toluene-d8	20.4	ug/kg	88.0%	(59 - 131)
2-Fluorobiphenyl	1340	ug/kg	81.0%	(40 - 113)
2-Fluorophenol	2760	ug/kg	83.0%	(25 - 110)
Nitrobenzene-d5	1550	ug/kg	93.0%	(36 - 113)
Phenol-d5	2760	ug/kg	83.0%	(28 - 111)
4-Bromofluorobenzene	19.8	ug/kg	85.0%	(51 - 128)
Terphenyl-d14	1510	ug/kg	91.0%	(35 - 135)

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

Raymond J. Martrano
Laboratory Manager



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August 10, 2007

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Lab ID #: **9695451010**
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Discard: 08/24/07

Page: 65 Of 71

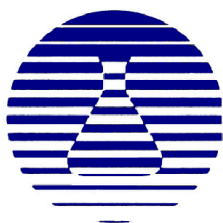
Project Name: **YORK RDA - NORTHWEST TRIANGLE**
Workorder ID: **Soils-8260B, 8270C, PCBs, Metals**

PO#: 07214
COC Number:

Sample ID: **E-SS10[2.5]**
Date Collected: 07/26/07 14:05

Matrix: Solid
Collected by: Mr. Dan Buterbaugh

Analysis Parameter	Result	Units	RDL	Method	Completed	Prep Date	By	Cntr
VOLATILE ORGANICS								
Acetone	ND	ug/kg	20.7	8260/5035	08/08/07 21:32	07/26/07	DXN	C
Benzene	ND	ug/kg	1.7	8260/5035	08/08/07 21:32	07/26/07	DXN	C
Bromochloromethane	ND	ug/kg	1.7	8260/5035	08/08/07 21:32	07/26/07	DXN	C
Bromodichloromethane	ND	ug/kg	1.7	8260/5035	08/08/07 21:32	07/26/07	DXN	C
Bromoform	ND	ug/kg	1.7	8260/5035	08/08/07 21:32	07/26/07	DXN	C
Bromomethane	ND	ug/kg	3.3	8260/5035	08/08/07 21:32	07/26/07	DXN	C
2-Butanone	ND	ug/kg	8.3	8260/5035	08/08/07 21:32	07/26/07	DXN	C
Carbon Disulfide	ND	ug/kg	1.7	8260/5035	08/08/07 21:32	07/26/07	DXN	C
Carbon Tetrachloride	ND	ug/kg	1.7	8260/5035	08/08/07 21:32	07/26/07	DXN	C
Chlorobenzene	ND	ug/kg	1.7	8260/5035	08/08/07 21:32	07/26/07	DXN	C
Chlorodibromomethane	ND	ug/kg	1.7	8260/5035	08/08/07 21:32	07/26/07	DXN	C
Chloroethane	ND	ug/kg	1.7	8260/5035	08/08/07 21:32	07/26/07	DXN	C
Chloroform	ND	ug/kg	1.7	8260/5035	08/08/07 21:32	07/26/07	DXN	C
Chloromethane	ND	ug/kg	1.7	8260/5035	08/08/07 21:32	07/26/07	DXN	C
1,2-Dibromo-3-chloropropane	ND	ug/kg	3.3	8260/5035	08/08/07 21:32	07/26/07	DXN	C
1,2-Dibromoethane	ND	ug/kg	1.7	8260/5035	08/08/07 21:32	07/26/07	DXN	C
1,1-Dichloroethane	ND	ug/kg	1.7	8260/5035	08/08/07 21:32	07/26/07	DXN	C
1,2-Dichloroethane	ND	ug/kg	1.7	8260/5035	08/08/07 21:32	07/26/07	DXN	C
1,1-Dichloroethene	ND	ug/kg	1.7	8260/5035	08/08/07 21:32	07/26/07	DXN	C
cis-1,2-Dichloroethene	ND	ug/kg	1.7	8260/5035	08/08/07 21:32	07/26/07	DXN	C



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Discard: 08/24/07

Page: 66 Of 71

Project Name: **YORK RDA - NORTHWEST TRIANGLE**
Workorder ID: **Soils-8260B, 8270C, PCBs, Metals**

PO#: 07214
COC Number:

Sample ID: **E-SS10[2.5]**
Date Collected: 07/26/07 14:05

Matrix: Solid
Collected by: Mr. Dan Buterbaugh

Analysis Parameter	Result	Units	RDL	Method	Completed	Prep Date	By	Cntr
VOLATILE ORGANICS (continued)								
trans-1,2-Dichloroethene	ND	ug/kg	1.7	8260/5035	08/08/07 21:32	07/26/07	DXN	C
1,2-Dichloropropane	ND	ug/kg	1.7	8260/5035	08/08/07 21:32	07/26/07	DXN	C
cis-1,3-Dichloropropene	ND	ug/kg	1.7	8260/5035	08/08/07 21:32	07/26/07	DXN	C
trans-1,3-Dichloropropene	ND	ug/kg	1.7	8260/5035	08/08/07 21:32	07/26/07	DXN	C
Ethylbenzene	ND	ug/kg	1.7	8260/5035	08/08/07 21:32	07/26/07	DXN	C
2-Hexanone	ND	ug/kg	8.3	8260/5035	08/08/07 21:32	07/26/07	DXN	C
4-Methyl-2-Pentanone(MIBK)	ND	ug/kg	8.3	8260/5035	08/08/07 21:32	07/26/07	DXN	C
Methylene Chloride	ND	ug/kg	1.7	8260/5035	08/08/07 21:32	07/26/07	DXN	C
Styrene	ND	ug/kg	1.7	8260/5035	08/08/07 21:32	07/26/07	DXN	C
1,1,2,2-Tetrachloroethane	ND	ug/kg	1.7	8260/5035	08/08/07 21:32	07/26/07	DXN	C
Tetrachloroethene	ND	ug/kg	1.7	8260/5035	08/08/07 21:32	07/26/07	DXN	C
Toluene	ND	ug/kg	1.7	8260/5035	08/08/07 21:32	07/26/07	DXN	C
Total Xylenes	ND	ug/kg	5.0	8260/5035	08/08/07 21:32	07/26/07	DXN	C
1,1,1-Trichloroethane	ND	ug/kg	1.7	8260/5035	08/08/07 21:32	07/26/07	DXN	C
1,1,2-Trichloroethane	ND	ug/kg	1.7	8260/5035	08/08/07 21:32	07/26/07	DXN	C
Trichloroethene	ND	ug/kg	1.7	8260/5035	08/08/07 21:32	07/26/07	DXN	C
Vinyl Chloride	ND	ug/kg	1.7	8260/5035	08/08/07 21:32	07/26/07	DXN	C
o-Xylene	ND	ug/kg	1.7	8260/5035	08/08/07 21:32	07/26/07	DXN	C
mp-Xylene	ND	ug/kg	3.3	8260/5035	08/08/07 21:32	07/26/07	DXN	C



Certificate of Analysis

August 10, 2007

Mr. Dan Buterbaugh
ARM Group Inc.
1129 W. Governor Road
Hershey, PA 17033

Lab ID #: **9695451010**
Received: 07/26/07 16:15
Discard: 08/24/07

Page: 67 Of 71

Project Name: **YORK RDA - NORTHWEST TRIANGLE**
Workorder ID: **Soils-8260B, 8270C, PCBs, Metals**

PO#: 07214
COC Number:

Sample ID: **E-SS10[2.5]**

Matrix: Solid

Date Collected: 07/26/07 14:05

Collected by: Mr. Dan Buterbaugh

Analysis Parameter	Result	Units	RDL	Method	Completed	Prep Date	By	Cntr
SEMIVOLATILES								
Acenaphthene	ND	ug/kg	76	SW846 8270C	08/01/07 16:36	07/30/07	DHF	E1
Acenaphthylene	ND	ug/kg	76	SW846 8270C	08/01/07 16:36	07/30/07	DHF	E1
Anthracene	ND	ug/kg	76	SW846 8270C	08/01/07 16:36	07/30/07	DHF	E1
Benzo(a)anthracene	154	ug/kg	76	SW846 8270C	08/01/07 16:36	07/30/07	DHF	E1
Benzo(a)pyrene	162	ug/kg	76	SW846 8270C	08/01/07 16:36	07/30/07	DHF	E1
Benzo(b)fluoranthene	216	ug/kg	76	SW846 8270C	08/01/07 16:36	07/30/07	DHF	E1
Benzo(g,h,i)perylene	ND	ug/kg	76	SW846 8270C	08/01/07 16:36	07/30/07	DHF	E1
Benzo(k)fluoranthene	146	ug/kg	76	SW846 8270C	08/01/07 16:36	07/30/07	DHF	E1
4-Bromophenyl-phenylether	ND	ug/kg	109	SW846 8270C	08/01/07 16:36	07/30/07	DHF	E1
Butylbenzylphthalate	ND	ug/kg	109	SW846 8270C	08/01/07 16:36	07/30/07	DHF	E1
Carbazole	ND	ug/kg	109	SW846 8270C	08/01/07 16:36	07/30/07	DHF	E1
4-Chloro-3-methylphenol	ND	ug/kg	294	SW846 8270C	08/01/07 16:36	07/30/07	DHF	E1
4-Chloroaniline	ND	ug/kg	294	SW846 8270C	08/01/07 16:36	07/30/07	DHF	E1
Bis(2-Chloroethoxy)methane	ND	ug/kg	109	SW846 8270C	08/01/07 16:36	07/30/07	DHF	E1
Bis(2-Chloroethyl)ether	ND	ug/kg	109	SW846 8270C	08/01/07 16:36	07/30/07	DHF	E1
bis(2-Chloroisopropyl)ether	ND	ug/kg	109	SW846 8270C	08/01/07 16:36	07/30/07	DHF	E1
2-Chloronaphthalene	ND	ug/kg	109	SW846 8270C	08/01/07 16:36	07/30/07	DHF	E1
2-Chlorophenol	ND	ug/kg	294	SW846 8270C	08/01/07 16:36	07/30/07	DHF	E1
4-Chlorophenyl-phenylether	ND	ug/kg	109	SW846 8270C	08/01/07 16:36	07/30/07	DHF	E1
Chrysene	259	ug/kg	76	SW846 8270C	08/01/07 16:36	07/30/07	DHF	E1



Certificate of Analysis

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Lab ID #: **9695451010**
Received: 07/26/07 16:15
Discard: 08/24/07

Page: 68 Of 71

Project Name: **YORK RDA - NORTHWEST TRIANGLE**
Workorder ID: **Soils-8260B, 8270C, PCBs, Metals**

PO#: 07214
COC Number:

Sample ID: **E-SS10[2.5]**
Date Collected: 07/26/07 14:05

Matrix: Solid
Collected by: Mr. Dan Buterbaugh

Analysis Parameter	Result	Units	RDL	Method	Completed	Prep Date	By	Cntr
SEMIVOLATILES (continued)								
mp-Cresol	ND	ug/kg	294	SW846 8270C	08/01/07 16:36	07/30/07	DHF	E1
o-Cresol	ND	ug/kg	294	SW846 8270C	08/01/07 16:36	07/30/07	DHF	E1
Di-n-Butylphthalate	ND	ug/kg	109	SW846 8270C	08/01/07 16:36	07/30/07	DHF	E1
Di-n-Octylphthalate	ND	ug/kg	294	SW846 8270C	08/01/07 16:36	07/30/07	DHF	E1
Dibenzo(a,h)anthracene	ND	ug/kg	76	SW846 8270C	08/01/07 16:36	07/30/07	DHF	E1
Dibenzofuran	ND	ug/kg	109	SW846 8270C	08/01/07 16:36	07/30/07	DHF	E1
1,2-Dichlorobenzene	ND	ug/kg	109	SW846 8270C	08/01/07 16:36	07/30/07	DHF	E1
1,3-Dichlorobenzene	ND	ug/kg	109	SW846 8270C	08/01/07 16:36	07/30/07	DHF	E1
1,4-Dichlorobenzene	ND	ug/kg	109	SW846 8270C	08/01/07 16:36	07/30/07	DHF	E1
3,3-Dichlorobenzidine	ND	ug/kg	109	SW846 8270C	08/01/07 16:36	07/30/07	DHF	E1
2,4-Dichlorophenol	ND	ug/kg	294	SW846 8270C	08/01/07 16:36	07/30/07	DHF	E1
Diethylphthalate	ND	ug/kg	109	SW846 8270C	08/01/07 16:36	07/30/07	DHF	E1
2,4-Dimethylphenol	ND	ug/kg	294	SW846 8270C	08/01/07 16:36	07/30/07	DHF	E1
Dimethylphthalate	ND	ug/kg	109	SW846 8270C	08/01/07 16:36	07/30/07	DHF	E1
2,4-Dinitrophenol	ND	ug/kg	588	SW846 8270C	08/01/07 16:36	07/30/07	DHF	E1
2,4-Dinitrotoluene	ND	ug/kg	109	SW846 8270C	08/01/07 16:36	07/30/07	DHF	E1
2,6-Dinitrotoluene	ND	ug/kg	109	SW846 8270C	08/01/07 16:36	07/30/07	DHF	E1
bis(2-Ethylhexyl)phthalate	ND	ug/kg	109	SW846 8270C	08/01/07 16:36	07/30/07	DHF	E1
Fluoranthene	390	ug/kg	76	SW846 8270C	08/01/07 16:36	07/30/07	DHF	E1
Fluorene	ND	ug/kg	76	SW846 8270C	08/01/07 16:36	07/30/07	DHF	E1



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Lab ID #: **9695451010**
Received: 07/26/07 16:15
Discard: 08/24/07

Page: 69 Of 71

Project Name: **YORK RDA - NORTHWEST TRIANGLE**
Workorder ID: **Soils-8260B, 8270C, PCBs, Metals**

PO#: 07214
COC Number:

Sample ID: **E-SS10[2.5]**

Matrix: Solid

Date Collected: 07/26/07 14:05

Collected by: Mr. Dan Buterbaugh

Analysis Parameter	Result	Units	RDL	Method	Completed	Prep Date	By	Cntr
SEMIVOLATILES (continued)								
Hexachlorobenzene	ND	ug/kg	109	SW846 8270C	08/01/07 16:36	07/30/07	DHF	E1
Hexachlorobutadiene	ND	ug/kg	109	SW846 8270C	08/01/07 16:36	07/30/07	DHF	E1
Hexachlorocyclopentadiene	ND	ug/kg	294	SW846 8270C	08/01/07 16:36	07/30/07	DHF	E1
Hexachloroethane	ND	ug/kg	109	SW846 8270C	08/01/07 16:36	07/30/07	DHF	E1
Indeno(1,2,3-cd)pyrene	ND	ug/kg	76	SW846 8270C	08/01/07 16:36	07/30/07	DHF	E1
Isophorone	ND	ug/kg	109	SW846 8270C	08/01/07 16:36	07/30/07	DHF	E1
2-Methyl-4,6-dinitrophenol	ND	ug/kg	294	SW846 8270C	08/01/07 16:36	07/30/07	DHF	E1
2-Methylnaphthalene	ND	ug/kg	76	SW846 8270C	08/01/07 16:36	07/30/07	DHF	E1
Naphthalene	ND	ug/kg	76	SW846 8270C	08/01/07 16:36	07/30/07	DHF	E1
2-Nitroaniline	ND	ug/kg	109	SW846 8270C	08/01/07 16:36	07/30/07	DHF	E1
3-Nitroaniline	ND	ug/kg	294	SW846 8270C	08/01/07 16:36	07/30/07	DHF	E1
4-Nitroaniline	ND	ug/kg	294	SW846 8270C	08/01/07 16:36	07/30/07	DHF	E1
Nitrobenzene	ND	ug/kg	109	SW846 8270C	08/01/07 16:36	07/30/07	DHF	E1
2-Nitrophenol	ND	ug/kg	294	SW846 8270C	08/01/07 16:36	07/30/07	DHF	E1
4-Nitrophenol	ND	ug/kg	588	SW846 8270C	08/01/07 16:36	07/30/07	DHF	E1
N-Nitroso-di-n-propylamine	ND	ug/kg	109	SW846 8270C	08/01/07 16:36	07/30/07	DHF	E1
N-Nitrosodiphenylamine	ND	ug/kg	109	SW846 8270C	08/01/07 16:36	07/30/07	DHF	E1
Pentachlorophenol	ND	ug/kg	588	SW846 8270C	08/01/07 16:36	07/30/07	DHF	E1
Phenanthrene	285	ug/kg	76	SW846 8270C	08/01/07 16:36	07/30/07	DHF	E1
Phenol	ND	ug/kg	294	SW846 8270C	08/01/07 16:36	07/30/07	DHF	E1



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Lab ID #: **9695451010**
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Discard: 08/24/07

Page: 70 Of 71

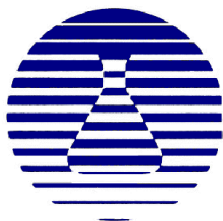
Project Name: **YORK RDA - NORTHWEST TRIANGLE**
Workorder ID: **Soils-8260B,8270C,PCBs,Metals**

PO#: 07214
COC Number:

Sample ID: **E-SS10[2.5]**
Date Collected: 07/26/07 14:05

Matrix: Solid
Collected by: Mr. Dan Buterbaugh

Analysis Parameter	Result	Units	RDL	Method	Completed	Prep Date	By	Cntr
SEMIVOLATILES (continued)								
Pyrene	363	ug/kg	76	SW846 8270C	08/01/07 16:36	07/30/07	DHF	E1
1,2,4-Trichlorobenzene	ND	ug/kg	109	SW846 8270C	08/01/07 16:36	07/30/07	DHF	E1
2,4,5-Trichlorophenol	ND	ug/kg	294	SW846 8270C	08/01/07 16:36	07/30/07	DHF	E1
2,4,6-Trichlorophenol	ND	ug/kg	294	SW846 8270C	08/01/07 16:36	07/30/07	DHF	E1
WET CHEMISTRY								
Moisture	8.5	%	0.1	SM20-2540 G	07/27/07 05:45	07/27/07	KMW	E
Total Solids	91.5	%	0.1	SM20-2540 G	07/27/07 05:45	07/27/07	KMW	E
METALS								
Arsenic, Total	22	mg/kg	1	SW846 6010B	08/07/07 06:01	08/02/07	TED	E2
Barium, Total	91	mg/kg	0.6	SW846 6010B	08/07/07 06:01	08/02/07	TED	E2
Cadmium, Total	0.9	mg/kg	0.3	SW846 6010B	08/07/07 06:01	08/02/07	TED	E2
Chromium, Total	32.4	mg/kg	0.6	SW846 6010B	08/07/07 06:01	08/02/07	TED	E2
Lead, Total	285	mg/kg	1	SW846 6010B	08/07/07 06:01	08/02/07	TED	E2
Mercury, Total	ND	mg/kg	0.21	SW846 7471B	08/09/07 09:06	08/08/07	CMD	E3
Selenium, Total	ND	mg/kg	3	SW846 6010B	08/07/07 06:01	08/02/07	TED	E2
Silver, Total	ND	mg/kg	0.3	SW846 6010B	08/07/07 06:01	08/02/07	TED	E2



Certificate of Analysis

August 10, 2007

Mr. Dan Buterbaugh
ARM Group Inc.
1129 W. Governor Road
Hershey, PA 17033

Lab ID #: **9695451010**
Received: 07/26/07 16:15
Discard: 08/24/07

Page: 71 Of 71

Project Name: **YORK RDA - NORTHWEST TRIANGLE**
Workorder ID: **Soils-8260B, 8270C, PCBs, Metals**

PO#: 07214
COC Number:

Sample ID: **E-SS10[2.5]**
Date Collected: 07/26/07 14:05

Matrix: Solid
Collected by: Mr. Dan Buterbaugh

Surrogates	Result	Units	Recovery	Limits
2,4,6-Tribromophenol	2980	ug/kg	90.0%	(24 - 130)
1,2-Dichloroethane-d4	19	ug/kg	84.0%	(56 - 124)
Dibromofluoromethane	18.1	ug/kg	80.0%	(62 - 123)
Toluene-d8	19.5	ug/kg	86.0%	(59 - 131)
2-Fluorobiphenyl	1340	ug/kg	80.0%	(40 - 113)
2-Fluorophenol	2720	ug/kg	82.0%	(25 - 110)
Nitrobenzene-d5	1410	ug/kg	85.0%	(36 - 113)
Phenol-d5	2640	ug/kg	80.0%	(28 - 111)
4-Bromofluorobenzene	19.5	ug/kg	86.0%	(51 - 128)
Terphenyl-d14	1370	ug/kg	82.0%	(35 - 135)

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

Raymond J. Martrano
Laboratory Manager



Certificate of Analysis

Project Name: **NWT York/07214**

Workorder: **9710084**

Purchase Order: **07214**

Workorder ID: **NWT/07214**

Mr. Dan Buterbaugh
ARM Group Inc.
1129 W. Governor Road
Hershey, PA 17033

November 7, 2007

Dear Mr. Buterbaugh,

Enclosed are the analytical results for samples received by the laboratory on Saturday, November 03, 2007

ALSI is a National Environmental Laboratory Accreditation Conference (NELAC) accredited laboratory and as such, certifies that all applicable test results meet the requirements of NELAC.

If you have any questions regarding this certificate of analysis, please contact Susan Baer (Project Coordinator) or Raymond J Martrano (Laboratory Manager) at (717) 944-5541.

Please visit us at www.analyticallab.com for a listing of ALSI's NELAC accreditations and Scope of Work, as well as other links to Water Quality documentation on the internet.

This laboratory report may not be reproduced, except in full, without the written approval of ALSI.

NOTE: ALSI has changed the report generation tool and while we have tried to retain the existing format, you will notice some changes in the laboratory report. Please feel free to contact ALSI in case you have any questions.

Analytical Laboratory Services, Inc.

This page is included as part of the Analytical Report and must be retained as a permanent record thereof.

Raymond J. Martrano
Laboratory Manager



SAMPLE SUMMARY

Workorder: 9710084 NWT/07214

Discard Date: 11/21/2007

Lab ID	Sample ID	Matrix	Date Collected	Date Received	Collected By
9710084001	C-SS11(6)	Solid	11/2/07 11:50	11/3/07 12:10	Dan Buterbaugh
9710084002	C-SS12 (6)	Solid	11/2/07 12:54	11/3/07 12:10	Dan Buterbaugh
9710084003	C-SS11 (16)	Solid	11/2/07 12:30	11/3/07 12:10	Dan Buterbaugh
9710084004	C-SS12 (19)	Solid	11/2/07 13:30	11/3/07 12:10	Dan Buterbaugh
9710084005	C-SS13 (6)	Solid	11/2/07 13:40	11/3/07 12:10	Dan Buterbaugh
9710084006	C-SS13 (18)	Solid	11/2/07 14:03	11/3/07 12:10	Dan Buterbaugh
9710084007	C-SS14 (6)	Solid	11/2/07 14:10	11/3/07 12:10	Dan Buterbaugh
9710084008	C-SS14 (16)	Solid	11/2/07 14:30	11/3/07 12:10	Dan Buterbaugh

Workorder Comments:

Notes

- Samples collected by ALSI personnel are done so in accordance with the procedures set forth in the ALSI Field Sampling Plan (20 - Field Services Sampling Plan).
- All Waste Water analyses comply with methodology requirements of 40 CFR Part 136.
- All Drinking Water analyses comply with methodology requirements of 40 CFR Part 141.
- Unless otherwise noted, all quantitative results for soils are reported on a dry weight basis.
- The Chain of Custody document is included as part of this report.

Standard Acronyms/Flags

J, B	Both flags indicates an estimated value between the Method Detection Limit (MDL) and the Practical Quantitation Limit (PQL) for the analyte
U	Indicates that the analyte was Not Detected (ND)
MDL	Method Detection Limit
PQL	Practical Quantitation Limit
RDL	Reporting Detection Limit
ND	Not Detected - indicates that the analyte was Not Detected at the RDL
Cntr	Analysis was performed using this container
RegLmt	Regulatory Limit
LCS	Laboratory Control Sample
MS	Matrix Spike
MSD	Matrix Spike Duplicate
DUP	Sample Duplicate
%Rec	Percent Recovery
RPD	Relative Percent Difference



ANALYTICAL RESULTS

Workorder: 9710084 NWT/07214

Lab ID: **9710084001**

Date Collected: 11/2/2007 11:50

Matrix: Solid

Sample ID: **C-SS11(6)**

Date Received: 11/3/2007 12:10

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr	RegLmt
WET CHEMISTRY											
Moisture	22.0		%	0.1	SM20-2540 G			11/5/07 16:08	PAG	A	
Total Solids	78.0		%	0.1	SM20-2540 G			11/5/07 16:08	PAG	A	
METALS											
Lead, Total	273		mg/kg	2	SW846 6010B	11/6/07	MNP	11/7/07 15:00	TED	A1	

Sample Comments:

EPA Methods require samples to be transported at 4 degrees centigrade. The temperature of this sample was 8 degrees centigrade when received.

Raymond J. Martrano
Laboratory Manager



ANALYTICAL RESULTS

Workorder: 9710084 NWT/07214

Lab ID: 9710084002

Date Collected: 11/2/2007 12:54

Matrix: Solid

Sample ID: C-SS12 (6)

Date Received: 11/3/2007 12:10

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr	RegLmt
WET CHEMISTRY											
Moisture	18.1		%	0.1	SM20-2540 G			11/5/07 16:08	PAG	A	
Total Solids	81.9		%	0.1	SM20-2540 G			11/5/07 16:08	PAG	A	
METALS											
Lead, Total	79		mg/kg	2	SW846 6010B	11/6/07	MNP	11/7/07 15:15	TED	A1	

Sample Comments:

EPA Methods require samples to be transported at 4 degrees centigrade. The temperature of this sample was 8 degrees centigrade when received.

Raymond J. Martrano
Laboratory Manager



ANALYTICAL RESULTS

Workorder: 9710084 NWT/07214

Lab ID: 9710084003

Date Collected: 11/2/2007 12:30

Matrix: Solid

Sample ID: C-SS11 (16)

Date Received: 11/3/2007 12:10

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr	RegLmt
WET CHEMISTRY											
Moisture	14.6		%	0.1	SM20-2540 G			11/5/07 16:08	PAG	A	
Total Solids	85.4		%	0.1	SM20-2540 G			11/5/07 16:08	PAG	A	
METALS											
Lead, Total	169		mg/kg	2	SW846 6010B	11/6/07	MNP	11/7/07 15:20	TED	A1	

Sample Comments:

EPA Methods require samples to be transported at 4 degrees centigrade. The temperature of this sample was 8 degrees centigrade when received.

Raymond J. Martrano
Laboratory Manager



ANALYTICAL RESULTS

Workorder: 9710084 NWT/07214

Lab ID: **9710084004**

Date Collected: 11/2/2007 13:30

Matrix: Solid

Sample ID: **C-SS12 (19)**

Date Received: 11/3/2007 12:10

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr	RegLmt
WET CHEMISTRY											
Moisture	22.5		%	0.1	SM20-2540 G			11/5/07 16:08	PAG	A	
Total Solids	77.5		%	0.1	SM20-2540 G			11/5/07 16:08	PAG	A	
METALS											
Lead, Total	247		mg/kg	2	SW846 6010B	11/6/07	MNP	11/7/07 15:24	TED	A1	

Sample Comments:

EPA Methods require samples to be transported at 4 degrees centigrade. The temperature of this sample was 8 degrees centigrade when received.

Raymond J. Martrano
Laboratory Manager



ANALYTICAL RESULTS

Workorder: 9710084 NWT/07214

Lab ID: 9710084005

Date Collected: 11/2/2007 13:40

Matrix: Solid

Sample ID: C-SS13 (6)

Date Received: 11/3/2007 12:10

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr	RegLmt
WET CHEMISTRY											
Moisture	16.2		%	0.1	SM20-2540 G			11/5/07 16:08	PAG	A	
Total Solids	83.8		%	0.1	SM20-2540 G			11/5/07 16:08	PAG	A	
METALS											
Lead, Total	130		mg/kg	1	SW846 6010B	11/6/07	MNP	11/7/07 15:29	TED	A1	

Sample Comments:

EPA Methods require samples to be transported at 4 degrees centigrade. The temperature of this sample was 8 degrees centigrade when received.

Raymond J. Martrano
Laboratory Manager



ANALYTICAL RESULTS

Workorder: 9710084 NWT/07214

Lab ID: 9710084006

Date Collected: 11/2/2007 14:03

Matrix: Solid

Sample ID: C-SS13 (18)

Date Received: 11/3/2007 12:10

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr	RegLmt
WET CHEMISTRY											
Moisture	19.9		%	0.1	SM20-2540 G			11/5/07 16:08	PAG	A	
Total Solids	80.1		%	0.1	SM20-2540 G			11/5/07 16:08	PAG	A	
METALS											
Lead, Total	309		mg/kg	2	SW846 6010B	11/6/07	MNP	11/7/07 15:33	TED	A1	

Sample Comments:

EPA Methods require samples to be transported at 4 degrees centigrade. The temperature of this sample was 8 degrees centigrade when received.

Raymond J. Martrano
Laboratory Manager



ANALYTICAL RESULTS

Workorder: 9710084 NWT/07214

Lab ID: 9710084007

Date Collected: 11/2/2007 14:10

Matrix: Solid

Sample ID: C-SS14 (6)

Date Received: 11/3/2007 12:10

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr	RegLmt
WET CHEMISTRY											
Moisture	16.7		%	0.1	SM20-2540 G			11/5/07 16:08	PAG	A	
Total Solids	83.3		%	0.1	SM20-2540 G			11/5/07 16:08	PAG	A	
METALS											
Lead, Total	460		mg/kg	2	SW846 6010B	11/6/07	MNP	11/7/07 15:38	TED	A1	

Sample Comments:

EPA Methods require samples to be transported at 4 degrees centigrade. The temperature of this sample was 8 degrees centigrade when received.

Raymond J. Martrano
Laboratory Manager



ANALYTICAL RESULTS

Workorder: 9710084 NWT/07214

Lab ID: 9710084008

Date Collected: 11/2/2007 14:30

Matrix: Solid

Sample ID: C-SS14 (16)

Date Received: 11/3/2007 12:10

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr	RegLmt
WET CHEMISTRY											
Moisture	20.4		%	0.1	SM20-2540 G			11/5/07 16:08	PAG	A	
Total Solids	79.6		%	0.1	SM20-2540 G			11/5/07 16:08	PAG	A	
METALS											
Lead, Total	295		mg/kg	1	SW846 6010B	11/6/07	MNP	11/7/07 15:42	TED	A1	

Sample Comments:

EPA Methods require samples to be transported at 4 degrees centigrade. The temperature of this sample was 8 degrees centigrade when received.

Raymond J. Martrano
Laboratory Manager



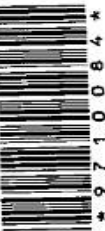
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Page 4 of
Counter:
Tracking #:

CHAIN OF CUSTODY/ REQUEST FOR ANALYSIS

ALL SHADED AREAS MUST BE COMPLETED BY THE
CLIENT / SAMPLER. INSTRUCTIONS ON THE BACK.

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Laboratory Services, Inc.
Environmental • Industrial Hygiene • Field Services

34 Dogwood Lane • Middletown, PA 17057 • 717-944-5541 • Fax: 717-944-1430

Co. Name: ARM Group		Phone: 	
Contact (person): Dan Buterbaugh			
Address: 1129 W Governor Rd Hershey PA			
Project Name#: 07214		ALSI Quote #: 	
TAT: ☒ Normal-Standard TAT is 10-12 business days. ☐ Rush-Subject to ALSI approval and surcharges.		Date Required: 11/7/07	
Email? ☒ dbuterbaugh@armgroup.net		Approved By: 	
Fax? ☐ 			
Sample Description/Location (as it will appear on the lab report)	COC Comments	Sample Date	Military Time
1 C-SS 11(6")		11/2/07	1150
2 C-SS 12(6")		11/2/07	1200
3 C-SS 11(16")	For description 15 essence 11 (24")	11/2/07	1200
4 C-SS 12(19")		11/2/07	1330
5 C-SS 13(6")		11/2/07	1340
6 C-SS 13(18")		11/2/07	1403
7 C-SS 14(6")		11/2/07	1410
8 C-SS 14(16")		11/2/07	1430
SAMPLED BY (Please Print): Dan Buterbaugh		LOGGED BY (Signature): J. Keston	
Relinquished By / Company Name		REVIEWED BY (Signature): J. Keston	
1 Dan Buterbaugh	Date	Time	Received By / Company Name
3 Dan Buterbaugh	11/2/07	1210	2 Dan Buterbaugh
5 Dan Buterbaugh			4 Dan Buterbaugh
7 Dan Buterbaugh			6 Dan Buterbaugh
9 Dan Buterbaugh			8 Dan Buterbaugh
		10 Dan Buterbaugh	
Enter Number of Containers Per Analysis		Data Deliverables	
		Standard ☒ CLP-Plate ☐ NU-Reduced ☐ NU-Full ☐ Other ☐	
		SWMA Form 10 ☐ MD ☐ NJ ☐ NY ☐ PA ☐	
		Suma Samples Collected in? ☐	
		ALS FIELD SERVICES	
		Pickup ☐ Labor ☐ Composite Sampling ☐ Rental Equipment ☐ Other ☐	
		Container in good condition? ☐	
		COC/Labels complete/accurate? ☐	
		Received on ice? ☐	
		(If present) Soils intact? ☐	
		Custody seals Present? ☐	
		Correct containers? ☐	
		Correct sample volumes? ☐	
		Correct preservation? ☐	
		Headspace/Volatiles? ☐	
		Circle appropriate Y or N.	
Notes:			
No. of Coolers:			
Therm. ID: 9107588			
Cooler Temp: 8			
ANALYSIS/METHOD REQUESTED			
Container Type G			
Container Size 4-8			
Preservative -			
Matrix Lead			

Rev 6/07



Certificate of Analysis

Project Name: **NWT York/07214**

Workorder: **9710083**

Purchase Order: **07214**

Workorder ID: **NWT/07214**

Mr. Dan Buterbaugh
ARM Group Inc.
1129 W. Governor Road
Hershey, PA 17033

November 7, 2007

Dear Mr. Buterbaugh,

Enclosed are the analytical results for samples received by the laboratory on Saturday, November 03, 2007

ALSI is a National Environmental Laboratory Accreditation Conference (NELAC) accredited laboratory and as such, certifies that all applicable test results meet the requirements of NELAC.

If you have any questions regarding this certificate of analysis, please contact Susan Baer (Project Coordinator) or Raymond J Martrano (Laboratory Manager) at (717) 944-5541.

Please visit us at www.analyticallab.com for a listing of ALSI's NELAC accreditations and Scope of Work, as well as other links to Water Quality documentation on the internet.

This laboratory report may not be reproduced, except in full, without the written approval of ALSI.

NOTE: ALSI has changed the report generation tool and while we have tried to retain the existing format, you will notice some changes in the laboratory report. Please feel free to contact ALSI in case you have any questions.

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Raymond J. Martrano
Laboratory Manager



SAMPLE SUMMARY

Workorder: 9710083 NWT/07214

Discard Date: 11/21/2007

Lab ID	Sample ID	Matrix	Date Collected	Date Received	Collected By
9710083001	4301-SS5 (6)	Solid	11/2/07 15:00	11/3/07 12:10	Dan Buterbaugh
9710083002	4301-SS6 (6)	Solid	11/2/07 15:15	11/3/07 12:10	Dan Buterbaugh
9710083003	4301-SS7 (6)	Solid	11/2/07 15:35	11/3/07 12:10	Dan Buterbaugh
9710083004	4301-SS8 (6)	Solid	11/2/07 15:40	11/3/07 12:10	Dan Buterbaugh
9710083005	4301-SS9 (16)	Solid	11/2/07 16:25	11/3/07 12:10	Dan Buterbaugh
9710083006	4301-SS10 (13)	Solid	11/2/07 17:37	11/3/07 12:10	Dan Buterbaugh
9710083007	4301-SS11 (18)	Solid	11/2/07 18:09	11/3/07 12:10	Dan Buterbaugh
9710083008	4301-SS12 (20)	Solid	11/2/07 18:30	11/3/07 12:10	Dan Buterbaugh

Workorder Comments:

Notes

- Samples collected by ALSI personnel are done so in accordance with the procedures set forth in the ALSI Field Sampling Plan (20 - Field Services Sampling Plan).
- All Waste Water analyses comply with methodology requirements of 40 CFR Part 136.
- All Drinking Water analyses comply with methodology requirements of 40 CFR Part 141.
- Unless otherwise noted, all quantitative results for soils are reported on a dry weight basis.
- The Chain of Custody document is included as part of this report.

Standard Acronyms/Flags

J, B	Both flags indicates an estimated value between the Method Detection Limit (MDL) and the Practical Quantitation Limit (PQL) for the analyte
U	Indicates that the analyte was Not Detected (ND)
MDL	Method Detection Limit
PQL	Practical Quantitation Limit
RDL	Reporting Detection Limit
ND	Not Detected - indicates that the analyte was Not Detected at the RDL
Cntr	Analysis was performed using this container
RegLmt	Regulatory Limit
LCS	Laboratory Control Sample
MS	Matrix Spike
MSD	Matrix Spike Duplicate
DUP	Sample Duplicate
%Rec	Percent Recovery
RPD	Relative Percent Difference



ANALYTICAL RESULTS

Workorder: 9710083 NWT/07214

Lab ID: **9710083001**

Date Collected: 11/2/2007 15:00

Matrix: Solid

Sample ID: **4301-SS5 (6)**

Date Received: 11/3/2007 12:10

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr	RegLmt
WET CHEMISTRY											
Moisture	14.1		%	0.1	SM20-2540 G			11/5/07 16:08	PAG	A	
Total Solids	85.9		%	0.1	SM20-2540 G			11/5/07 16:08	PAG	A	
METALS											
Arsenic, Total	68	1	mg/kg	2	SW846 6010B	11/6/07	MNP	11/7/07 15:47	TED	A1	
Chromium, Total	135	2	mg/kg	0.8	SW846 6010B	11/6/07	MNP	11/7/07 15:47	TED	A1	

Sample Comments:

EPA Methods require samples to be transported at 4 degrees centigrade. The temperature of this sample was 8 degrees centigrade when received.

Raymond J. Martrano
Laboratory Manager



ANALYTICAL RESULTS

Workorder: 9710083 NWT/07214

Lab ID: **9710083002**

Date Collected: 11/2/2007 15:15

Matrix: Solid

Sample ID: **4301-SS6 (6)**

Date Received: 11/3/2007 12:10

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr	RegLmt
WET CHEMISTRY											
Moisture	10.9		%	0.1	SM20-2540 G			11/5/07 16:08	PAG	A	
Total Solids	89.1		%	0.1	SM20-2540 G			11/5/07 16:08	PAG	A	
METALS											
Arsenic, Total	56		mg/kg	2	SW846 6010B	11/6/07	MNP	11/7/07 14:29	TED	A1	
Chromium, Total	212		mg/kg	1	SW846 6010B	11/6/07	MNP	11/7/07 14:29	TED	A1	

Sample Comments:

EPA Methods require samples to be transported at 4 degrees centigrade. The temperature of this sample was 8 degrees centigrade when received.

Raymond J. Martrano
Laboratory Manager



ANALYTICAL RESULTS

Workorder: 9710083 NWT/07214

Lab ID: 9710083003

Date Collected: 11/2/2007 15:35

Matrix: Solid

Sample ID: 4301-SS7 (6)

Date Received: 11/3/2007 12:10

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr	RegLmt
WET CHEMISTRY											
Moisture	9.2		%	0.1	SM20-2540 G			11/5/07 16:08	PAG	A	
Total Solids	90.8		%	0.1	SM20-2540 G			11/5/07 16:08	PAG	A	
METALS											
Arsenic, Total	ND	3	mg/kg	83	SW846 6010B	11/6/07	MNP	11/7/07 16:28	TED	A1	
Chromium, Total	968	3	mg/kg	33.4	SW846 6010B	11/6/07	MNP	11/7/07 16:28	TED	A1	

Sample Comments:

EPA Methods require samples to be transported at 4 degrees centigrade. The temperature of this sample was 8 degrees centigrade when received.

Raymond J. Martrano
Laboratory Manager



ANALYTICAL RESULTS

Workorder: 9710083 NWT/07214

Lab ID: **9710083004** Date Collected: 11/2/2007 15:40 Matrix: Solid
Sample ID: **4301-SS8 (6)** Date Received: 11/3/2007 12:10

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr	RegLmt
WET CHEMISTRY											
Moisture	14.5		%	0.1	SM20-2540 G			11/5/07 16:08	PAG	A	
Total Solids	85.5		%	0.1	SM20-2540 G			11/5/07 16:08	PAG	A	
METALS											
Arsenic, Total	5		mg/kg	2	SW846 6010B	11/6/07	MNP	11/7/07 14:38	TED	A1	
Chromium, Total	303		mg/kg	0.9	SW846 6010B	11/6/07	MNP	11/7/07 14:38	TED	A1	

Sample Comments:

EPA Methods require samples to be transported at 4 degrees centigrade. The temperature of this sample was 8 degrees centigrade when received.

Raymond J. Martrano
Laboratory Manager



ANALYTICAL RESULTS

Workorder: 9710083 NWT/07214

Lab ID: **9710083005** Date Collected: 11/2/2007 16:25 Matrix: Solid
Sample ID: **4301-SS9 (16)** Date Received: 11/3/2007 12:10

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr	RegLmt
WET CHEMISTRY											
Moisture	11.2		%	0.1	SM20-2540 G			11/5/07 16:08	PAG	A	
Total Solids	88.8		%	0.1	SM20-2540 G			11/5/07 16:08	PAG	A	
METALS											
Arsenic, Total	7		mg/kg	2	SW846 6010B	11/6/07	MNP	11/7/07 14:42	TED	A1	
Chromium, Total	172		mg/kg	0.8	SW846 6010B	11/6/07	MNP	11/7/07 14:42	TED	A1	

Sample Comments:

EPA Methods require samples to be transported at 4 degrees centigrade. The temperature of this sample was 8 degrees centigrade when received.

Raymond J. Martrano
Laboratory Manager



ANALYTICAL RESULTS

Workorder: 9710083 NWT/07214

Lab ID: **9710083006**
Sample ID: **4301-SS10 (13)**

Date Collected: 11/2/2007 17:37
Date Received: 11/3/2007 12:10

Matrix: Solid

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr	RegLmt
WET CHEMISTRY											
Moisture	14.0		%	0.1	SM20-2540 G			11/5/07 16:08	PAG	A	
Total Solids	86.0		%	0.1	SM20-2540 G			11/5/07 16:08	PAG	A	
METALS											
Arsenic, Total	23		mg/kg	2	SW846 6010B	11/6/07	MNP	11/7/07 14:47	TED	A1	
Chromium, Total	38.9		mg/kg	0.9	SW846 6010B	11/6/07	MNP	11/7/07 14:47	TED	A1	

Sample Comments:

EPA Methods require samples to be transported at 4 degrees centigrade. The temperature of this sample was 8 degrees centigrade when received.

Raymond J. Martrano
Laboratory Manager



ANALYTICAL RESULTS

Workorder: 9710083 NWT/07214

Lab ID: **9710083007** Date Collected: 11/2/2007 18:09 Matrix: Solid
Sample ID: **4301-SS11 (18)** Date Received: 11/3/2007 12:10

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr	RegLmt
WET CHEMISTRY											
Moisture	15.9		%	0.1	SM20-2540 G			11/5/07 16:08	PAG	A	
Total Solids	84.1		%	0.1	SM20-2540 G			11/5/07 16:08	PAG	A	
METALS											
Arsenic, Total	49		mg/kg	2	SW846 6010B	11/6/07	MNP	11/7/07 14:51	TED	A1	
Chromium, Total	25.2		mg/kg	0.9	SW846 6010B	11/6/07	MNP	11/7/07 14:51	TED	A1	

Sample Comments:

EPA Methods require samples to be transported at 4 degrees centigrade. The temperature of this sample was 8 degrees centigrade when received.

Raymond J. Martrano
Laboratory Manager



ANALYTICAL RESULTS

Workorder: 9710083 NWT/07214

Lab ID: **9710083008** Date Collected: 11/2/2007 18:30 Matrix: Solid
Sample ID: **4301-SS12 (20)** Date Received: 11/3/2007 12:10

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr	RegLmt
WET CHEMISTRY											
Moisture	15.6		%	0.1	SM20-2540 G			11/5/07 16:08	PAG	A	
Total Solids	84.4		%	0.1	SM20-2540 G			11/5/07 16:08	PAG	A	
METALS											
Arsenic, Total	12		mg/kg	2	SW846 6010B	11/6/07	MNP	11/7/07 14:56	TED	A1	
Chromium, Total	19.1		mg/kg	0.7	SW846 6010B	11/6/07	MNP	11/7/07 14:56	TED	A1	

Sample Comments:

EPA Methods require samples to be transported at 4 degrees centigrade. The temperature of this sample was 8 degrees centigrade when received.

Raymond J. Martrano
Laboratory Manager



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ANALYTICAL RESULTS QUALIFIERS/FLAGS

Workorder: 9710083 NWT/07214

PARAMETER QUALIFIERS/FLAGS

- [1] The recovery of the Matrix Spike (MS) associated to this analyte was outside of the established control limits. The sample was post-digestion spiked, and this matrix spike was within acceptable recovery limits.
- [2] One of the two matrix spike analyses performed on this sample failed to meet acceptable recovery limits. The other matrix spike was within acceptable recovery limits. Matrix interferences are the possible cause for the failure.
- [3] The sample dilution of 1/50 was made due to the high concentration of Manganese in the sample. The detection limits were raised accordingly. 11/07/07 TED



Certificate of Analysis

Project Name: **NWT York/07214**

Workorder: **9710086**

Purchase Order: **07214**

Workorder ID: **NWT/07214**

Mr. Dan Buterbaugh
ARM Group Inc.
1129 W. Governor Road
Hershey, PA 17033

November 7, 2007

Dear Mr. Buterbaugh,

Enclosed are the analytical results for samples received by the laboratory on Saturday, November 03, 2007

ALSI is a National Environmental Laboratory Accreditation Conference (NELAC) accredited laboratory and as such, certifies that all applicable test results meet the requirements of NELAC.

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Analytical Laboratory Services, Inc.

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Raymond J. Martrano
Laboratory Manager



SAMPLE SUMMARY

Workorder: 9710086 NWT/07214

Discard Date: 11/21/2007

Lab ID	Sample ID	Matrix	Date Collected	Date Received	Collected By
9710086001	43-02-SS4 (6)	Solid	11/2/07 16:50	11/3/07 12:10	Dan Buterbaugh
9710086002	43-02-SS5 (6)	Solid	11/2/07 17:02	11/3/07 12:10	Dan Buterbaugh

Workorder Comments:

Notes

- Samples collected by ALSI personnel are done so in accordance with the procedures set forth in the ALSI Field Sampling Plan (20 - Field Services Sampling Plan).
- All Waste Water analyses comply with methodology requirements of 40 CFR Part 136.
- All Drinking Water analyses comply with methodology requirements of 40 CFR Part 141.
- Unless otherwise noted, all quantitative results for soils are reported on a dry weight basis.
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U	Indicates that the analyte was Not Detected (ND)
MDL	Method Detection Limit
PQL	Practical Quantitation Limit
RDL	Reporting Detection Limit
ND	Not Detected - indicates that the analyte was Not Detected at the RDL
Cntr	Analysis was performed using this container
RegLmt	Regulatory Limit
LCS	Laboratory Control Sample
MS	Matrix Spike
MSD	Matrix Spike Duplicate
DUP	Sample Duplicate
%Rec	Percent Recovery
RPD	Relative Percent Difference



ANALYTICAL RESULTS

Workorder: 9710086 NWT/07214

Lab ID: **9710086001**

Date Collected: 11/2/2007 16:50

Matrix: Solid

Sample ID: **43-02-SS4 (6)**

Date Received: 11/3/2007 12:10

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr	RegLmt
WET CHEMISTRY											
Moisture	4.3		%	0.1	SM20-2540 G			11/5/07 16:08	PAG	A	
Total Solids	95.7		%	0.1	SM20-2540 G			11/5/07 16:08	PAG	A	
METALS											
Arsenic, Total	4		mg/kg	2	SW846 6010B	11/7/07	SRT	11/7/07 13:05	TED	A1	

Sample Comments:

EPA Methods require samples to be transported at 4 degrees centigrade. The temperature of this sample was 8 degrees centigrade when received.

Raymond J. Martrano
Laboratory Manager



ANALYTICAL RESULTS

Workorder: 9710086 NWT/07214

Lab ID: 9710086002

Date Collected: 11/2/2007 17:02

Matrix: Solid

Sample ID: 43-02-SS5 (6)

Date Received: 11/3/2007 12:10

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr	RegLmt
WET CHEMISTRY											
Moisture	3.9		%	0.1	SM20-2540 G			11/5/07 16:08	PAG	A	
Total Solids	96.1		%	0.1	SM20-2540 G			11/5/07 16:08	PAG	A	
METALS											
Arsenic, Total	3		mg/kg	2	SW846 6010B	11/7/07	SRT	11/7/07 14:05	TED	A1	

Sample Comments:

EPA Methods require samples to be transported at 4 degrees centigrade. The temperature of this sample was 8 degrees centigrade when received.

Raymond J. Martrano
Laboratory Manager



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CHAIN OF CUSTODY/
REQUEST FOR ANALYSIS
ALL SHADED AREAS MUST BE COMPLETED BY THE CLIENT /
SAMPLER. INSTRUCTIONS ON THE BACK.

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Environmental • Industrial Hygiene • Field Services
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Client Name: ARM Group		Type		Receipt Information (completed by Receiving Lab)	
Address: PO Box 797		Cooler Temp: 2		Therm. ID: S102559	
Contact: Dan Butcherbaugh		No. of Coolers: Y		Initial: DSS	
Phone#: 717-533-8600		Custody Seals Present?		Custody Seals Intact?	
Project Name#: NWT York/07214		Received on Ice?		COC Labels Complete/Accurate?	
Bill To:		Cont. In Good Cond.?		Correct Containers?	
TAT		Correct Sample Volumes?		Correct Preservation?	
Date Required: 11/7/07		Headspace Volatiles?		Courier Tracking #:	
Email? X		Sample Description/Location		Sample/COC Comments	
Fax? X		Sample Date		Enter Number of Containers Per Analysis Requested or Field Results Below.	
Sample Date		Military			
1 43-02-SS4(6)		11/2/07		1650 GS	
2 43-02-SS5(6)		11/2/07		1702 GS	
3					
4					
5					
6					
7					
8					
9					
10					
SAMPLED BY (Please Print): Dan Butcherbaugh		LOGGED BY (Signature): [Signature]		Date: 11/5/07	
Relinquished By / Company Name		Reviewed By (Signature): J. Kester		Date: 11/6/07	
1 [Signature]		Date: 11/3/07		Time: 12:10	
3 [Signature]		Date: 11/3/07		Time: 12:10	
5		Date: 11/3/07		Time: 12:10	
7		Date: 11/3/07		Time: 12:10	
9		Date: 11/3/07		Time: 12:10	
G-Grab; C-Composite		Data Deliverables		ALS Field Services	
Standard		State Samples Collected In		Pickup	
CLP-like		NC		Labor	
NJ-Reduced		NJ		Composite Sampling	
NJ-Full		NY		Retail	
Other		PA		Equipment	
If yes, format type:		Other		Other:	
Edds		Required?		RMSD	
100 Criteria Required?					

Copies: WHITE-ORIGINAL, CANARY-CUSTOMER COPY
Mark: Air-Air; DW-Drinking Water; GW-Groundwater; OL-Oil; Other Liquid; SL-Sludge; SO-Soil; WP-Wipe; WW-Wastewater
Container Type: AG-Amber Glass; CG-Clear Glass; PL-Plastic; Container Size: 250ml, 500ml, 1L, 8oz, etc. Preservative: HCl, HNO3, NaOH, etc.

need RDL ≤ 12 ppm



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Certificate of Analysis

Project Name: **NWT York/07214**

Workorder: **9710002**

Purchase Order: **07214**

Workorder ID: **NWT/07214**

Mr. Dan Buterbaugh
ARM Group Inc.
1129 W. Governor Road
Hershey, PA 17033

November 9, 2007

Dear Mr. Buterbaugh,

Enclosed are the analytical results for samples received by the laboratory on Friday, November 02, 2007

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Raymond J. Martrano
Laboratory Manager



SAMPLE SUMMARY

Workorder: 9710002 NWT/07214

Discard Date: 11/23/2007

Lab ID	Sample ID	Matrix	Date Collected	Date Received	Collected By
9710002001	WADB-5 (7.5)	Solid	11/1/07 12:30	11/2/07 19:00	Steve Fulton
9710002002	WADB-5 (11)	Solid	11/1/07 12:45	11/2/07 19:00	Steve Fulton
9710002003	E-SS5 (4)	Solid	11/1/07 14:45	11/2/07 19:00	Steve Fulton
9710002004	E-SS8 (4)	Solid	11/1/07 15:24	11/2/07 19:00	Steve Fulton
9710002005	E-SS9 (4)	Solid	11/1/07 15:30	11/2/07 19:00	Steve Fulton
9710002006	E-SS10 (4)	Solid	11/1/07 15:55	11/2/07 19:00	Steve Fulton

Workorder Comments:

Notes

- Samples collected by ALSI personnel are done so in accordance with the procedures set forth in the ALSI Field Sampling Plan (20 - Field Services Sampling Plan).
- All Waste Water analyses comply with methodology requirements of 40 CFR Part 136.
- All Drinking Water analyses comply with methodology requirements of 40 CFR Part 141.
- Unless otherwise noted, all quantitative results for soils are reported on a dry weight basis.
- The Chain of Custody document is included as part of this report.

Standard Acronyms/Flags

J, B	Both flags indicates an estimated value between the Method Detection Limit (MDL) and the Practical Quantitation Limit (PQL) for the analyte
U	Indicates that the analyte was Not Detected (ND)
MDL	Method Detection Limit
PQL	Practical Quantitation Limit
RDL	Reporting Detection Limit
ND	Not Detected - indicates that the analyte was Not Detected at the RDL
Cntr	Analysis was performed using this container
RegLmt	Regulatory Limit
LCS	Laboratory Control Sample
MS	Matrix Spike
MSD	Matrix Spike Duplicate
DUP	Sample Duplicate
%Rec	Percent Recovery
RPD	Relative Percent Difference



ANALYTICAL RESULTS

Workorder: 9710002 NWT/07214

Lab ID: **9710002001**

Date Collected: 11/1/2007 12:30

Matrix: Solid

Sample ID: **WADB-5 (7.5)**

Date Received: 11/2/2007 19:00

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr	RegLmt
VOLATILE ORGANICS											
Acetone	ND		ug/kg	488	8260/5035	11/2/07	JHD	11/6/07 22:28	DXN		
Acetonitrile	ND		ug/kg	976	8260/5035	11/2/07	JHD	11/6/07 22:28	DXN		
Acrolein	ND		ug/kg	1220	8260/5035	11/2/07	JHD	11/6/07 22:28	DXN		
Acrylonitrile	ND		ug/kg	244	8260/5035	11/2/07	JHD	11/6/07 22:28	DXN		
tert-Amyl methyl ether	ND		ug/kg	97.6	8260/5035	11/2/07	JHD	11/6/07 22:28	DXN		
tert-Amyl Alcohol	ND		ug/kg	244	8260/5035	11/2/07	JHD	11/6/07 22:28	DXN		
tert-Amyl Ethylether	ND		ug/kg	48.8	8260/5035	11/2/07	JHD	11/6/07 22:28	DXN		
Benzene	2580		ug/kg	48.8	8260/5035	11/2/07	JHD	11/6/07 22:28	DXN		
Benzyl Chloride	ND		ug/kg	48.8	8260/5035	11/2/07	JHD	11/6/07 22:28	DXN		
Bromobenzene	ND		ug/kg	48.8	8260/5035	11/2/07	JHD	11/6/07 22:28	DXN		
Bromochloromethane	ND		ug/kg	48.8	8260/5035	11/2/07	JHD	11/6/07 22:28	DXN		
Bromodichloromethane	ND		ug/kg	48.8	8260/5035	11/2/07	JHD	11/6/07 22:28	DXN		
Bromoform	ND		ug/kg	48.8	8260/5035	11/2/07	JHD	11/6/07 22:28	DXN		
Bromomethane	ND		ug/kg	48.8	8260/5035	11/2/07	JHD	11/6/07 22:28	DXN		
2-Butanone	ND		ug/kg	488	8260/5035	11/2/07	JHD	11/6/07 22:28	DXN		
tert.-Butyl Alcohol	ND		ug/kg	488	8260/5035	11/2/07	JHD	11/6/07 22:28	DXN		
n-Butylbenzene	526		ug/kg	48.8	8260/5035	11/2/07	JHD	11/6/07 22:28	DXN		
tert-Butylbenzene	ND		ug/kg	97.6	8260/5035	11/2/07	JHD	11/6/07 22:28	DXN		
sec-Butylbenzene	443		ug/kg	97.6	8260/5035	11/2/07	JHD	11/6/07 22:28	DXN		
Carbon Disulfide	ND		ug/kg	48.8	8260/5035	11/2/07	JHD	11/6/07 22:28	DXN		
Carbon Tetrachloride	ND		ug/kg	48.8	8260/5035	11/2/07	JHD	11/6/07 22:28	DXN		
Chlorobenzene	ND		ug/kg	48.8	8260/5035	11/2/07	JHD	11/6/07 22:28	DXN		
Chlorodibromomethane	ND		ug/kg	48.8	8260/5035	11/2/07	JHD	11/6/07 22:28	DXN		
Chloroethane	ND		ug/kg	48.8	8260/5035	11/2/07	JHD	11/6/07 22:28	DXN		
2-Chloroethylvinyl ether	ND		ug/kg	146	8260/5035	11/2/07	JHD	11/6/07 22:28	DXN		
Chloroform	ND		ug/kg	48.8	8260/5035	11/2/07	JHD	11/6/07 22:28	DXN		
1-Chlorohexane	ND		ug/kg	48.8	8260/5035	11/2/07	JHD	11/6/07 22:28	DXN		
Chloromethane	ND		ug/kg	48.8	8260/5035	11/2/07	JHD	11/6/07 22:28	DXN		
Chloroprene	ND		ug/kg	48.8	8260/5035	11/2/07	JHD	11/6/07 22:28	DXN		
3-Chloro-1-propene	ND		ug/kg	48.8	8260/5035	11/2/07	JHD	11/6/07 22:28	DXN		
o-Chlorotoluene	ND		ug/kg	48.8	8260/5035	11/2/07	JHD	11/6/07 22:28	DXN		
p-Chlorotoluene	ND		ug/kg	48.8	8260/5035	11/2/07	JHD	11/6/07 22:28	DXN		
Cyclohexane	74.8		ug/kg	48.8	8260/5035	11/2/07	JHD	11/6/07 22:28	DXN		
1,2-Dibromo-3-chloropropane	ND		ug/kg	342	8260/5035	11/2/07	JHD	11/6/07 22:28	DXN		
1,2-Dibromoethane	ND		ug/kg	48.8	8260/5035	11/2/07	JHD	11/6/07 22:28	DXN		
Dibromomethane	ND		ug/kg	48.8	8260/5035	11/2/07	JHD	11/6/07 22:28	DXN		
trans-1,4-Dichloro-2-butene	ND		ug/kg	97.6	8260/5035	11/2/07	JHD	11/6/07 22:28	DXN		
1,2-Dichlorobenzene	ND		ug/kg	48.8	8260/5035	11/2/07	JHD	11/6/07 22:28	DXN		
1,3-Dichlorobenzene	ND		ug/kg	48.8	8260/5035	11/2/07	JHD	11/6/07 22:28	DXN		
1,4-Dichlorobenzene	ND		ug/kg	48.8	8260/5035	11/2/07	JHD	11/6/07 22:28	DXN		
Dichlorodifluoromethane	ND		ug/kg	48.8	8260/5035	11/2/07	JHD	11/6/07 22:28	DXN		
1,1-Dichloroethane	ND		ug/kg	48.8	8260/5035	11/2/07	JHD	11/6/07 22:28	DXN		
1,2-Dichloroethane	ND		ug/kg	48.8	8260/5035	11/2/07	JHD	11/6/07 22:28	DXN		
1,1-Dichloroethene	ND		ug/kg	48.8	8260/5035	11/2/07	JHD	11/6/07 22:28	DXN		
1,2-Dichloroethene, Total	ND		ug/kg	97.6	8260/5035	11/2/07	JHD	11/6/07 22:28	DXN		

**ANALYTICAL RESULTS**

Workorder: 9710002 NWT/07214

Lab ID: **9710002001**

Date Collected: 11/1/2007 12:30

Matrix: Solid

Sample ID: **WADB-5 (7.5)**

Date Received: 11/2/2007 19:00

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr	RegLmt
cis-1,2-Dichloroethene	ND		ug/kg	48.8	8260/5035	11/2/07	JHD	11/6/07 22:28	DXN		
trans-1,2-Dichloroethene	ND		ug/kg	48.8	8260/5035	11/2/07	JHD	11/6/07 22:28	DXN		
Dichlorofluoromethane	ND		ug/kg	48.8	8260/5035	11/2/07	JHD	11/6/07 22:28	DXN		
1,3-Dichloropropane	ND		ug/kg	48.8	8260/5035	11/2/07	JHD	11/6/07 22:28	DXN		
2,2-Dichloropropane	ND		ug/kg	48.8	8260/5035	11/2/07	JHD	11/6/07 22:28	DXN		
1,2-Dichloropropane	ND		ug/kg	48.8	8260/5035	11/2/07	JHD	11/6/07 22:28	DXN		
1,1-Dichloropropene	ND		ug/kg	48.8	8260/5035	11/2/07	JHD	11/6/07 22:28	DXN		
cis-1,3-Dichloropropene	ND		ug/kg	48.8	8260/5035	11/2/07	JHD	11/6/07 22:28	DXN		
trans-1,3-Dichloropropene	ND		ug/kg	48.8	8260/5035	11/2/07	JHD	11/6/07 22:28	DXN		
1,3-Dichloropropene, Total	ND		ug/kg	48.8	8260/5035	11/2/07	JHD	11/6/07 22:28	DXN		
Diisobutylene	ND		ug/kg	48.8	8260/5035	11/2/07	JHD	11/6/07 22:28	DXN		
Diisopropyl ether	ND		ug/kg	48.8	8260/5035	11/2/07	JHD	11/6/07 22:28	DXN		
1,4-Dioxane	ND		ug/kg	15600	8260/5035	11/2/07	JHD	11/6/07 22:28	DXN		
Ethyl Ether	ND		ug/kg	48.8	8260/5035	11/2/07	JHD	11/6/07 22:28	DXN		
Ethyl Methacrylate	ND		ug/kg	48.8	8260/5035	11/2/07	JHD	11/6/07 22:28	DXN		
Ethyl Acetate	ND		ug/kg	97.6	8260/5035	11/2/07	JHD	11/6/07 22:28	DXN		
Ethyl tert-butyl ether	ND		ug/kg	48.8	8260/5035	11/2/07	JHD	11/6/07 22:28	DXN		
Ethylbenzene	655		ug/kg	48.8	8260/5035	11/2/07	JHD	11/6/07 22:28	DXN		
Freon 113	ND		ug/kg	48.8	8260/5035	11/2/07	JHD	11/6/07 22:28	DXN		
Heptane	ND		ug/kg	48.8	8260/5035	11/2/07	JHD	11/6/07 22:28	DXN		
Hexachlorobutadiene	ND		ug/kg	244	8260/5035	11/2/07	JHD	11/6/07 22:28	DXN		
Hexachloroethane	ND		ug/kg	48.8	8260/5035	11/2/07	JHD	11/6/07 22:28	DXN		
Hexane	607		ug/kg	48.8	8260/5035	11/2/07	JHD	11/6/07 22:28	DXN		
2-Hexanone	ND		ug/kg	244	8260/5035	11/2/07	JHD	11/6/07 22:28	DXN		
Iodomethane	ND		ug/kg	48.8	8260/5035	11/2/07	JHD	11/6/07 22:28	DXN		
Isobutyl alcohol	ND		ug/kg	3660	8260/5035	11/2/07	JHD	11/6/07 22:28	DXN		
Isopropyl Alcohol	ND		ug/kg	1220	8260/5035	11/2/07	JHD	11/6/07 22:28	DXN		
Isopropylbenzene	69.0		ug/kg	48.8	8260/5035	11/2/07	JHD	11/6/07 22:28	DXN		
p-Isopropyltoluene	ND		ug/kg	48.8	8260/5035	11/2/07	JHD	11/6/07 22:28	DXN		
Methacrylonitrile	ND		ug/kg	97.6	8260/5035	11/2/07	JHD	11/6/07 22:28	DXN		
Methyl methacrylate	ND		ug/kg	146	8260/5035	11/2/07	JHD	11/6/07 22:28	DXN		
Methyl acetate	ND		ug/kg	97.6	8260/5035	11/2/07	JHD	11/6/07 22:28	DXN		
Methyl cyclohexane	418		ug/kg	48.8	8260/5035	11/2/07	JHD	11/6/07 22:28	DXN		
Methyl t-Butyl Ether	ND		ug/kg	48.8	8260/5035	11/2/07	JHD	11/6/07 22:28	DXN		
4-Methyl-2-Pentanone(MIBK)	ND		ug/kg	244	8260/5035	11/2/07	JHD	11/6/07 22:28	DXN		
Methylene Chloride	ND		ug/kg	48.8	8260/5035	11/2/07	JHD	11/6/07 22:28	DXN		
Naphthalene	ND		ug/kg	97.6	8260/5035	11/2/07	JHD	11/6/07 22:28	DXN		
Nitrobenzene	ND		ug/kg	4880	8260/5035	11/2/07	JHD	11/6/07 22:28	DXN		
2-Nitropropane	ND		ug/kg	244	8260/5035	11/2/07	JHD	11/6/07 22:28	DXN		
Octane	393		ug/kg	146	8260/5035	11/2/07	JHD	11/6/07 22:28	DXN		
Pentane	585		ug/kg	97.6	8260/5035	11/2/07	JHD	11/6/07 22:28	DXN		
n-Propanol	ND		ug/kg	29300	8260/5035	11/2/07	JHD	11/6/07 22:28	DXN		
Propionitrile	ND		ug/kg	488	8260/5035	11/2/07	JHD	11/6/07 22:28	DXN		
n-Propylbenzene	212		ug/kg	48.8	8260/5035	11/2/07	JHD	11/6/07 22:28	DXN		
Styrene	ND		ug/kg	48.8	8260/5035	11/2/07	JHD	11/6/07 22:28	DXN		
1,1,1,2-Tetrachloroethane	ND		ug/kg	48.8	8260/5035	11/2/07	JHD	11/6/07 22:28	DXN		



ANALYTICAL RESULTS

Workorder: 9710002 NWT/07214

Lab ID: **9710002001**

Date Collected: 11/1/2007 12:30

Matrix: Solid

Sample ID: **WADB-5 (7.5)**

Date Received: 11/2/2007 19:00

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr	RegLmt
1,1,2,2-Tetrachloroethane	ND		ug/kg	48.8	8260/5035	11/2/07	JHD	11/6/07 22:28	DXN		
Tetrachloroethene	ND		ug/kg	48.8	8260/5035	11/2/07	JHD	11/6/07 22:28	DXN		
Tetrahydrofuran	ND		ug/kg	244	8260/5035	11/2/07	JHD	11/6/07 22:28	DXN		
Toluene	1980		ug/kg	48.8	8260/5035	11/2/07	JHD	11/6/07 22:28	DXN		
Total Xylenes	1470		ug/kg	146	8260/5035	11/2/07	JHD	11/6/07 22:28	DXN		
1,2,3-Trichlorobenzene	ND		ug/kg	97.6	8260/5035	11/2/07	JHD	11/6/07 22:28	DXN		
1,2,4-Trichlorobenzene	ND		ug/kg	97.6	8260/5035	11/2/07	JHD	11/6/07 22:28	DXN		
1,1,1-Trichloroethane	ND		ug/kg	48.8	8260/5035	11/2/07	JHD	11/6/07 22:28	DXN		
1,1,2-Trichloroethane	ND		ug/kg	48.8	8260/5035	11/2/07	JHD	11/6/07 22:28	DXN		
Trichloroethene	ND		ug/kg	48.8	8260/5035	11/2/07	JHD	11/6/07 22:28	DXN		
Trichlorofluoromethane	ND		ug/kg	48.8	8260/5035	11/2/07	JHD	11/6/07 22:28	DXN		
1,2,3-Trichloropropane	ND		ug/kg	97.6	8260/5035	11/2/07	JHD	11/6/07 22:28	DXN		
1,2,4-Trimethylbenzene	642		ug/kg	48.8	8260/5035	11/2/07	JHD	11/6/07 22:28	DXN		
1,3,5-Trimethylbenzene	106		ug/kg	48.8	8260/5035	11/2/07	JHD	11/6/07 22:28	DXN		
Vinyl Acetate	ND		ug/kg	244	8260/5035	11/2/07	JHD	11/6/07 22:28	DXN		
Vinyl Chloride	ND		ug/kg	48.8	8260/5035	11/2/07	JHD	11/6/07 22:28	DXN		
o-Xylene	245		ug/kg	48.8	8260/5035	11/2/07	JHD	11/6/07 22:28	DXN		
mp-Xylene	1220		ug/kg	97.6	8260/5035	11/2/07	JHD	11/6/07 22:28	DXN		
Surrogate Recoveries	Results	Flag	Units	Limits	Method	Prepared	By	Analyzed	By	Cntr	RegLmt
1,2-Dichloroethane-d4 (S)	97		%	71-146	8260/5035	11/2/07	JHD	11/6/07 22:28	DXN		
4-Bromofluorobenzene (S)	88		%	46-138	8260/5035	11/2/07	JHD	11/6/07 22:28	DXN		
Dibromofluoromethane (S)	96		%	42-143	8260/5035	11/2/07	JHD	11/6/07 22:28	DXN		
Toluene-d8 (S)	98		%	54-141	8260/5035	11/2/07	JHD	11/6/07 22:28	DXN		

WET CHEMISTRY

Moisture	12.5	%	0.1	SM20-2540 G	11/3/07 06:30	MBW	D
Total Solids	87.5	%	0.1	SM20-2540 G	11/3/07 06:30	MBW	D

Sample Comments:

The GCMS volatiles analysis was performed at a dilution due to the level of target compounds.

Raymond J. Martrano
Laboratory Manager



ANALYTICAL RESULTS

Workorder: 9710002 NWT/07214

Lab ID: **9710002002**

Date Collected: 11/1/2007 12:45

Matrix: Solid

Sample ID: **WADB-5 (11)**

Date Received: 11/2/2007 19:00

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr	RegLmt
VOLATILE ORGANICS											
Acetone	ND		ug/kg	518	8260/5035	11/2/07	JHD	11/6/07 21:59	DXN		
Acetonitrile	ND		ug/kg	1040	8260/5035	11/2/07	JHD	11/6/07 21:59	DXN		
Acrolein	ND		ug/kg	1300	8260/5035	11/2/07	JHD	11/6/07 21:59	DXN		
Acrylonitrile	ND		ug/kg	259	8260/5035	11/2/07	JHD	11/6/07 21:59	DXN		
tert-Amyl methyl ether	ND		ug/kg	104	8260/5035	11/2/07	JHD	11/6/07 21:59	DXN		
tert-Amyl Alcohol	ND		ug/kg	259	8260/5035	11/2/07	JHD	11/6/07 21:59	DXN		
tert-Amyl Ethylether	ND		ug/kg	51.8	8260/5035	11/2/07	JHD	11/6/07 21:59	DXN		
Benzene	ND		ug/kg	51.8	8260/5035	11/2/07	JHD	11/6/07 21:59	DXN		
Benzyl Chloride	ND		ug/kg	51.8	8260/5035	11/2/07	JHD	11/6/07 21:59	DXN		
Bromobenzene	ND		ug/kg	51.8	8260/5035	11/2/07	JHD	11/6/07 21:59	DXN		
Bromochloromethane	ND		ug/kg	51.8	8260/5035	11/2/07	JHD	11/6/07 21:59	DXN		
Bromodichloromethane	ND		ug/kg	51.8	8260/5035	11/2/07	JHD	11/6/07 21:59	DXN		
Bromoform	ND		ug/kg	51.8	8260/5035	11/2/07	JHD	11/6/07 21:59	DXN		
Bromomethane	ND		ug/kg	51.8	8260/5035	11/2/07	JHD	11/6/07 21:59	DXN		
2-Butanone	ND		ug/kg	518	8260/5035	11/2/07	JHD	11/6/07 21:59	DXN		
tert.- Butyl Alcohol	ND		ug/kg	518	8260/5035	11/2/07	JHD	11/6/07 21:59	DXN		
n-Butylbenzene	ND		ug/kg	51.8	8260/5035	11/2/07	JHD	11/6/07 21:59	DXN		
tert-Butylbenzene	ND		ug/kg	104	8260/5035	11/2/07	JHD	11/6/07 21:59	DXN		
sec-Butylbenzene	185		ug/kg	104	8260/5035	11/2/07	JHD	11/6/07 21:59	DXN		
Carbon Disulfide	ND		ug/kg	51.8	8260/5035	11/2/07	JHD	11/6/07 21:59	DXN		
Carbon Tetrachloride	ND		ug/kg	51.8	8260/5035	11/2/07	JHD	11/6/07 21:59	DXN		
Chlorobenzene	ND		ug/kg	51.8	8260/5035	11/2/07	JHD	11/6/07 21:59	DXN		
Chlorodibromomethane	ND		ug/kg	51.8	8260/5035	11/2/07	JHD	11/6/07 21:59	DXN		
Chloroethane	ND		ug/kg	51.8	8260/5035	11/2/07	JHD	11/6/07 21:59	DXN		
2-Chloroethylvinyl ether	ND		ug/kg	155	8260/5035	11/2/07	JHD	11/6/07 21:59	DXN		
Chloroform	ND		ug/kg	51.8	8260/5035	11/2/07	JHD	11/6/07 21:59	DXN		
1-Chlorohexane	ND		ug/kg	51.8	8260/5035	11/2/07	JHD	11/6/07 21:59	DXN		
Chloromethane	ND		ug/kg	51.8	8260/5035	11/2/07	JHD	11/6/07 21:59	DXN		
Chloroprene	ND		ug/kg	51.8	8260/5035	11/2/07	JHD	11/6/07 21:59	DXN		
3-Chloro-1-propene	ND		ug/kg	51.8	8260/5035	11/2/07	JHD	11/6/07 21:59	DXN		
o-Chlorotoluene	ND		ug/kg	51.8	8260/5035	11/2/07	JHD	11/6/07 21:59	DXN		
p-Chlorotoluene	ND		ug/kg	51.8	8260/5035	11/2/07	JHD	11/6/07 21:59	DXN		
Cyclohexane	ND		ug/kg	51.8	8260/5035	11/2/07	JHD	11/6/07 21:59	DXN		
1,2-Dibromo-3-chloropropane	ND		ug/kg	363	8260/5035	11/2/07	JHD	11/6/07 21:59	DXN		
1,2-Dibromoethane	ND		ug/kg	51.8	8260/5035	11/2/07	JHD	11/6/07 21:59	DXN		
Dibromomethane	ND		ug/kg	51.8	8260/5035	11/2/07	JHD	11/6/07 21:59	DXN		
trans-1,4-Dichloro-2-butene	ND		ug/kg	104	8260/5035	11/2/07	JHD	11/6/07 21:59	DXN		
1,2-Dichlorobenzene	ND		ug/kg	51.8	8260/5035	11/2/07	JHD	11/6/07 21:59	DXN		
1,3-Dichlorobenzene	ND		ug/kg	51.8	8260/5035	11/2/07	JHD	11/6/07 21:59	DXN		
1,4-Dichlorobenzene	ND		ug/kg	51.8	8260/5035	11/2/07	JHD	11/6/07 21:59	DXN		
Dichlorodifluoromethane	ND		ug/kg	51.8	8260/5035	11/2/07	JHD	11/6/07 21:59	DXN		
1,1-Dichloroethane	ND		ug/kg	51.8	8260/5035	11/2/07	JHD	11/6/07 21:59	DXN		
1,2-Dichloroethane	ND		ug/kg	51.8	8260/5035	11/2/07	JHD	11/6/07 21:59	DXN		
1,1-Dichloroethene	ND		ug/kg	51.8	8260/5035	11/2/07	JHD	11/6/07 21:59	DXN		
1,2-Dichloroethene, Total	ND		ug/kg	104	8260/5035	11/2/07	JHD	11/6/07 21:59	DXN		

**ANALYTICAL RESULTS**

Workorder: 9710002 NWT/07214

Lab ID: **9710002002**

Date Collected: 11/1/2007 12:45

Matrix: Solid

Sample ID: **WADB-5 (11)**

Date Received: 11/2/2007 19:00

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr	RegLmt
cis-1,2-Dichloroethene	ND		ug/kg	51.8	8260/5035	11/2/07	JHD	11/6/07 21:59	DXN		
trans-1,2-Dichloroethene	ND		ug/kg	51.8	8260/5035	11/2/07	JHD	11/6/07 21:59	DXN		
Dichlorofluoromethane	ND		ug/kg	51.8	8260/5035	11/2/07	JHD	11/6/07 21:59	DXN		
1,3-Dichloropropane	ND		ug/kg	51.8	8260/5035	11/2/07	JHD	11/6/07 21:59	DXN		
2,2-Dichloropropane	ND		ug/kg	51.8	8260/5035	11/2/07	JHD	11/6/07 21:59	DXN		
1,2-Dichloropropane	ND		ug/kg	51.8	8260/5035	11/2/07	JHD	11/6/07 21:59	DXN		
1,1-Dichloropropene	ND		ug/kg	51.8	8260/5035	11/2/07	JHD	11/6/07 21:59	DXN		
cis-1,3-Dichloropropene	ND		ug/kg	51.8	8260/5035	11/2/07	JHD	11/6/07 21:59	DXN		
trans-1,3-Dichloropropene	ND		ug/kg	51.8	8260/5035	11/2/07	JHD	11/6/07 21:59	DXN		
1,3-Dichloropropene, Total	ND		ug/kg	51.8	8260/5035	11/2/07	JHD	11/6/07 21:59	DXN		
Diisobutylene	ND		ug/kg	51.8	8260/5035	11/2/07	JHD	11/6/07 21:59	DXN		
Diisopropyl ether	ND		ug/kg	51.8	8260/5035	11/2/07	JHD	11/6/07 21:59	DXN		
1,4-Dioxane	ND		ug/kg	16600	8260/5035	11/2/07	JHD	11/6/07 21:59	DXN		
Ethyl Ether	ND		ug/kg	51.8	8260/5035	11/2/07	JHD	11/6/07 21:59	DXN		
Ethyl Methacrylate	ND		ug/kg	51.8	8260/5035	11/2/07	JHD	11/6/07 21:59	DXN		
Ethyl Acetate	ND		ug/kg	104	8260/5035	11/2/07	JHD	11/6/07 21:59	DXN		
Ethyl tert-butyl ether	ND		ug/kg	51.8	8260/5035	11/2/07	JHD	11/6/07 21:59	DXN		
Ethylbenzene	ND		ug/kg	51.8	8260/5035	11/2/07	JHD	11/6/07 21:59	DXN		
Freon 113	ND		ug/kg	51.8	8260/5035	11/2/07	JHD	11/6/07 21:59	DXN		
Heptane	ND		ug/kg	51.8	8260/5035	11/2/07	JHD	11/6/07 21:59	DXN		
Hexachlorobutadiene	ND		ug/kg	259	8260/5035	11/2/07	JHD	11/6/07 21:59	DXN		
Hexachloroethane	ND		ug/kg	51.8	8260/5035	11/2/07	JHD	11/6/07 21:59	DXN		
Hexane	ND		ug/kg	51.8	8260/5035	11/2/07	JHD	11/6/07 21:59	DXN		
2-Hexanone	ND		ug/kg	259	8260/5035	11/2/07	JHD	11/6/07 21:59	DXN		
Iodomethane	ND		ug/kg	51.8	8260/5035	11/2/07	JHD	11/6/07 21:59	DXN		
Isobutyl alcohol	ND		ug/kg	3890	8260/5035	11/2/07	JHD	11/6/07 21:59	DXN		
Isopropyl Alcohol	ND		ug/kg	1300	8260/5035	11/2/07	JHD	11/6/07 21:59	DXN		
Isopropylbenzene	ND		ug/kg	51.8	8260/5035	11/2/07	JHD	11/6/07 21:59	DXN		
p-Isopropyltoluene	ND		ug/kg	51.8	8260/5035	11/2/07	JHD	11/6/07 21:59	DXN		
Methacrylonitrile	ND		ug/kg	104	8260/5035	11/2/07	JHD	11/6/07 21:59	DXN		
Methyl methacrylate	ND		ug/kg	155	8260/5035	11/2/07	JHD	11/6/07 21:59	DXN		
Methyl acetate	ND		ug/kg	104	8260/5035	11/2/07	JHD	11/6/07 21:59	DXN		
Methyl cyclohexane	ND		ug/kg	51.8	8260/5035	11/2/07	JHD	11/6/07 21:59	DXN		
Methyl t-Butyl Ether	ND		ug/kg	51.8	8260/5035	11/2/07	JHD	11/6/07 21:59	DXN		
4-Methyl-2-Pentanone(MIBK)	ND		ug/kg	259	8260/5035	11/2/07	JHD	11/6/07 21:59	DXN		
Methylene Chloride	ND		ug/kg	51.8	8260/5035	11/2/07	JHD	11/6/07 21:59	DXN		
Naphthalene	ND		ug/kg	104	8260/5035	11/2/07	JHD	11/6/07 21:59	DXN		
Nitrobenzene	ND		ug/kg	5180	8260/5035	11/2/07	JHD	11/6/07 21:59	DXN		
2-Nitropropane	ND		ug/kg	259	8260/5035	11/2/07	JHD	11/6/07 21:59	DXN		
Octane	ND		ug/kg	155	8260/5035	11/2/07	JHD	11/6/07 21:59	DXN		
Pentane	ND		ug/kg	104	8260/5035	11/2/07	JHD	11/6/07 21:59	DXN		
n-Propanol	ND		ug/kg	31100	8260/5035	11/2/07	JHD	11/6/07 21:59	DXN		
Propionitrile	ND		ug/kg	518	8260/5035	11/2/07	JHD	11/6/07 21:59	DXN		
n-Propylbenzene	ND		ug/kg	51.8	8260/5035	11/2/07	JHD	11/6/07 21:59	DXN		
Styrene	ND		ug/kg	51.8	8260/5035	11/2/07	JHD	11/6/07 21:59	DXN		
1,1,1,2-Tetrachloroethane	ND		ug/kg	51.8	8260/5035	11/2/07	JHD	11/6/07 21:59	DXN		

**ANALYTICAL RESULTS**

Workorder: 9710002 NWT/07214

Lab ID: **9710002002**

Date Collected: 11/1/2007 12:45

Matrix: Solid

Sample ID: **WADB-5 (11)**

Date Received: 11/2/2007 19:00

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr	RegLmt
1,1,2,2-Tetrachloroethane	ND		ug/kg	51.8	8260/5035	11/2/07	JHD	11/6/07 21:59	DXN		
Tetrachloroethene	ND		ug/kg	51.8	8260/5035	11/2/07	JHD	11/6/07 21:59	DXN		
Tetrahydrofuran	ND		ug/kg	259	8260/5035	11/2/07	JHD	11/6/07 21:59	DXN		
Toluene	ND		ug/kg	51.8	8260/5035	11/2/07	JHD	11/6/07 21:59	DXN		
Total Xylenes	ND		ug/kg	155	8260/5035	11/2/07	JHD	11/6/07 21:59	DXN		
1,2,3-Trichlorobenzene	ND		ug/kg	104	8260/5035	11/2/07	JHD	11/6/07 21:59	DXN		
1,2,4-Trichlorobenzene	ND		ug/kg	104	8260/5035	11/2/07	JHD	11/6/07 21:59	DXN		
1,1,1-Trichloroethane	ND		ug/kg	51.8	8260/5035	11/2/07	JHD	11/6/07 21:59	DXN		
1,1,2-Trichloroethane	ND		ug/kg	51.8	8260/5035	11/2/07	JHD	11/6/07 21:59	DXN		
Trichloroethene	ND		ug/kg	51.8	8260/5035	11/2/07	JHD	11/6/07 21:59	DXN		
Trichlorofluoromethane	ND		ug/kg	51.8	8260/5035	11/2/07	JHD	11/6/07 21:59	DXN		
1,2,3-Trichloropropane	ND		ug/kg	104	8260/5035	11/2/07	JHD	11/6/07 21:59	DXN		
1,2,4-Trimethylbenzene	ND		ug/kg	51.8	8260/5035	11/2/07	JHD	11/6/07 21:59	DXN		
1,3,5-Trimethylbenzene	ND		ug/kg	51.8	8260/5035	11/2/07	JHD	11/6/07 21:59	DXN		
Vinyl Acetate	ND		ug/kg	259	8260/5035	11/2/07	JHD	11/6/07 21:59	DXN		
Vinyl Chloride	ND		ug/kg	51.8	8260/5035	11/2/07	JHD	11/6/07 21:59	DXN		
o-Xylene	ND		ug/kg	51.8	8260/5035	11/2/07	JHD	11/6/07 21:59	DXN		
mp-Xylene	ND		ug/kg	104	8260/5035	11/2/07	JHD	11/6/07 21:59	DXN		
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared</i>	<i>By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>	<i>RegLmt</i>
1,2-Dichloroethane-d4 (S)	100		%	71-146	8260/5035	11/2/07	JHD	11/6/07 21:59	DXN		
4-Bromofluorobenzene (S)	93		%	46-138	8260/5035	11/2/07	JHD	11/6/07 21:59	DXN		
Dibromofluoromethane (S)	100		%	42-143	8260/5035	11/2/07	JHD	11/6/07 21:59	DXN		
Toluene-d8 (S)	98		%	54-141	8260/5035	11/2/07	JHD	11/6/07 21:59	DXN		

WET CHEMISTRY

Moisture	20.8	%	0.1	SM20-2540 G	11/3/07 06:30	MBW	D
Total Solids	79.2	%	0.1	SM20-2540 G	11/3/07 06:30	MBW	D

Sample Comments:

The reporting limits for GCMS volatile analytes were raised due to the dilution of the sample caused by the level of non-target compounds.

Raymond J. Martrano
Laboratory Manager



ANALYTICAL RESULTS

Workorder: 9710002 NWT/07214

Lab ID: **9710002003**

Date Collected: 11/1/2007 14:45

Matrix: Solid

Sample ID: **E-SS5 (4)**

Date Received: 11/2/2007 19:00

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr	RegLmt
WET CHEMISTRY											
Moisture	4.4		%	0.1	SM20-2540 G			11/3/07 06:30	MBW	A	
Total Solids	95.6		%	0.1	SM20-2540 G			11/3/07 06:30	MBW	A	
METALS											
Arsenic, Total	ND		mg/kg	7	SW846 6010B	11/5/07	MNP	11/5/07 20:45	JVU	A1	
Lead, Total	46		mg/kg	6	SW846 6010B	11/5/07	MNP	11/5/07 20:45	JVU	A1	

Sample Comments:

Raymond J. Martrano
Laboratory Manager



ANALYTICAL RESULTS

Workorder: 9710002 NWT/07214

Lab ID: 9710002004

Date Collected: 11/1/2007 15:24

Matrix: Solid

Sample ID: E-SS8 (4)

Date Received: 11/2/2007 19:00

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr	RegLmt
WET CHEMISTRY											
Moisture	6.7		%	0.1	SM20-2540 G			11/3/07 06:30	MBW	A	
Total Solids	93.3		%	0.1	SM20-2540 G			11/3/07 06:30	MBW	A	
METALS											
Arsenic, Total	22		mg/kg	10	SW846 6010B	11/5/07	MNP	11/5/07 23:27	JVU	A1	
Lead, Total	129		mg/kg	8	SW846 6010B	11/5/07	MNP	11/5/07 20:59	JVU	A1	

Sample Comments:

Raymond J. Martrano
Laboratory Manager



ANALYTICAL RESULTS

Workorder: 9710002 NWT/07214

Lab ID: 9710002005

Date Collected: 11/1/2007 15:30

Matrix: Solid

Sample ID: E-SS9 (4)

Date Received: 11/2/2007 19:00

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr	RegLmt
WET CHEMISTRY											
Moisture	21.3		%	0.1	SM20-2540 G			11/3/07 06:30	MBW	A	
Total Solids	78.7		%	0.1	SM20-2540 G			11/3/07 06:30	MBW	A	
METALS											
Arsenic, Total	ND		mg/kg	12	SW846 6010B	11/5/07	MNP	11/5/07 21:04	JVU	A1	
Lead, Total	102		mg/kg	10	SW846 6010B	11/5/07	MNP	11/5/07 21:04	JVU	A1	

Sample Comments:

Raymond J. Martrano
Laboratory Manager



ANALYTICAL RESULTS

Workorder: 9710002 NWT/07214

Lab ID: 9710002006

Date Collected: 11/1/2007 15:55

Matrix: Solid

Sample ID: E-SS10 (4)

Date Received: 11/2/2007 19:00

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr	RegLmt
WET CHEMISTRY											
Moisture	16.9		%	0.1	SM20-2540 G			11/3/07 06:30	MBW	A	
Total Solids	83.1		%	0.1	SM20-2540 G			11/3/07 06:30	MBW	A	
METALS											
Arsenic, Total	10		mg/kg	3	SW846 6010B	11/5/07	MNP	11/5/07 21:09	JVU	A1	
Lead, Total	84		mg/kg	2	SW846 6010B	11/5/07	MNP	11/5/07 18:13	JVU	A1	

Sample Comments:

Raymond J. Martrano
Laboratory Manager



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34 Dogwood Lane - Middletown, PA 17057 Phone: 717-944-5541 Fax: 717-944-1430

CHAIN OF CUSTODY/ REQUEST FOR ANALYSIS

ALL SHADED AREAS MUST BE COMPLETED BY THE CLIENT /
SAMPLER. INSTRUCTIONS ON THE BACK.

Analytical
Laboratory Services, Inc.
Environmental • Industrial Hygiene • Field Services
34 Dogwood Lane • Middletown, PA 17057 • 717-944-5541 • Fax: 717-944-1430

Client Name: ARM GROUP		Container Type: Soil		Receipt Information (completed by Receiving Lab)	
Address: 1129 W. GOVERNOR R.O.		Container Size: 4oz		Cooler Temp: 7° Therm. ID: 51023559	
Contact: STEVE FULTON		Preservative: -		No. of Coolers: Y N Initial	
Phone#: 717-533-8600 x113		ANALYSES/METHOD REQUESTED		Custody Seals Present? Y N Initial	
Project Name#: NW1107214		RUSH		Custody Seals Intact? Y N Initial	
Bill To: STEVE FULTON				Received on Ice? Y N Initial	
TAT ☐ Normal-Standard TAT is 10-12 business days.				COCLabels Complete/Accurate? Y N Initial	
Date Required: 11/9/07 Approved By: [Signature]				Cont. In Good Cond? Y N Initial	
Email? ☐ Fax? ☐				Correct Containers? Y N Initial	
Sample Description/Location		Sample Date		Correct Preservation? Y N Initial	
(as it will appear on the lab report)		Military Time		HeadSpace/Volatiles? Y N Initial	
1 WADB-5 (7.5')		11/1/07 1230		Courier/Tracking #:	
2 WADB-5 (11')		11/1/07 1245		Sample/COC Comments	
3 E-SS5 (4')		11/1/07 1445		→ NEED BY 11/9/07.	
4 E-SS8 (4')		11/1/07 1524		Benzene, Toluene,	
5 E-SS9 (4')		11/1/07 1530		Ethylbenzene,	
6 E-SS10 (4')		11/1/07 1555		Xylenes	
7					
8					
9					
10					
SAMPLED BY (Please Print): STEVE FULTON		LOGGED BY (Signature): [Signature]		ALS Field Services	
REVIEWED BY (Signature): [Signature]		Date: 11/2/07		State Samples Collected In: NC	
Relinquished By / Company Name		Received By / Company Name		SWHA Forms Required? yes	
Date: 11/2/07		Date: 11/2/07		Pickup yes	
1 ARM GROUP		2 ARM GROUP		Labor yes	
3		4		Composite Sampling yes	
5		6		Rental yes	
7		8		Equipment yes	
9		10		Other: yes	
Data Deliverables		EDS Required? yes		DOD Criteria Required? yes	
Standard ☐ CLP-like ☐ NJ-Reduced ☐ NJ-Full ☐		If yes, format type: PHSD			

Rev 5/05

Copies: WHITE-ORIGINAL CANARY-CUSTOMER COPY

APPENDIX C

Weaver's Auto Body Soil Boring Logs

WEAVER'S AUTO BODY
NORTHWEST TRIANGLE INITIATIVE, CITY OF YORK, YORK COUNTY, PENNSYLVANIA

Project: Northwest Triangle
Location: City of York, York County, Pennsylvania
Date: July 19-20, 2007

ARM Project: 07214
ARM Rep.: D. Buterbaugh/J. Janecek
Excavation Contractor: ARM Group

BORING ID AND SUMMARY DESCRIPTION OF SUBSURFACE

Depth	D-SB1	PID	D-SB2	PID	D-SB3	PID	D-SB4	PID	D-SB5	PID	Depth
0	0.0 - 7.0': Gravelly SAND (SW), brown, pieces of brick, dry, loose.	0	0.0 - 7.75': Silty GRAVEL with Sand (GW), yellowish brown to orange, loose, dry, cinders, brick.	0	0.0 - 7.5': Silty GRAVEL with Sand (GW), yellowish brown to orange, loose, dry, cinders, brick.	0	0.0 - 5.5': Sandy SILT with Gravel (ML), yellowish brown to gray, soft, moist, non-plastic.	0	0.0 - 2.5': Silty GRAVEL with Sand (GW), yellowish brown to gray, loe, cinders, brick.	0	0
1		0		0		0		0		0	1
2		0		0		0		0		0	2
3		0		0		0		0		0	3
4		0		0		0		0		77 100	4
5		0		0		0		0		125	5
6	7.0 - 8.0': Sandy GRAVEL (GW), loose, moist, some silt.	0	7.75 - 12.0': SILT(ML), yellowish brown with dark brown mottles to dark gray, soft, moist, non-plastic, little to trace sand.	0	7.5 - 9.5': Sandy SILT with Gravel (ML), yellowish brown, soft, moist, non-plastic.	0	5.5 - 8.0': Silty CLAY (CL), light orangish brown with brown mottles, soft, low plasticity, few sand, trace gravel, wet at 7.75'.	0	2.5' - 7.0': Sandy SILT with Gravel (ML), yellowish brown to gray, medium dense, moist, non-plastic, mottled from 2.5 to 4.0',	150	6
7		0		0		0		0		180	7
8		0		0		0		0			8
9		0		0		0		0			9
10		0		0		0		0			10
11		0		0		0		0			11
12					12.0-12.5': SILTSTONE gravel	0			7.0 - 8.0': Sandy SILT with Gravel (SW), yellowish brown to black, medium dense, moist, some coal.		12
Termination Depth (bgs)	11.0'		12.0'		12.5'		8.0'		8.0'		Termination Depth (bgs)
Notes	Not sampled		Sampled at 11.5' - 12.0'		Not sampled		Not sampled		Sampled at 7.5' - 8.0'		Notes
Depth to Groundwater	NE		NE		NE		NE		NE		Depth to Groundwater

Note: All depths referenced as approximate depth below the existing surface (bgs)
[ML] - USCS symbol
NE - not encountered
PID = Photo-ionization Detector
PID results in parts per million

WEAVER'S AUTO BODY
NORTHWEST TRIANGLE INITIATIVE, CITY OF YORK, YORK COUNTY, PENNSYLVANIA

Project: Northwest Triangle
Location: City of York, York County, Pennsylvania
Date: July 19-20, 2007

ARM Project: 07214
ARM Rep.: D. Buterbaugh/J. Janick
Excavation Contractor: ARM Group

BORING ID AND SUMMARY DESCRIPTION OF SUBSURFACE

Depth	D-SB6	PID	D-SB7	PID	D-SB8	PID	Depth
0	0.0 - 4.0': Silty GRAVEL with Sand (GW), yellowish brown to black, dry to moist, loose, pieces of brick and coal fragments, petroleum odor.	0	0.0 - 0.3': Concrete	0	0.0 - 0.3': Concrete	0	0
1		0	0.3' - 4.0': Silty GRAVEL with Sand (GW), dark yellowish brown to black, loose, moist, coal fragments, waste oil odor.	20	0.3' - 4.0': SILT and GRAVEL with Sand (ML/GW), dark yellowish brown to black, loose, moist, pieces of coal, waste oil odor.	0	1
2		0				0	2
3		0				0	3
4	4.0 - 5.5': Sandy SILT (ML), yellowish brown, medium stiff, moist, non-plastic, some gravel, black mottles throughout, petroleum odor.	0					4
5		0					5
6	5.5 - 7.0': Clayey SILT (ML), yellowish brown with dark gray staining, soft to medium dense, moist, few gravel, petroleum odor.	0					6
7	7.0 - 8.0': Sandy SILT (ML), yellowish brown, loose to medium dense, moist, non-plastic, few gravel, slight petroleum odor.	0					7
8							8
Termination Depth (bgs)	8.0'		4.0'		4.0'		Termination Depth (bgs)
Notes	Sampled at 6.0' - 6.5'		Sampled at 4.0' - 4.5'		Sampled at 4.0' - 4.5'		Notes
Depth to Groundwater	NE		NE		NE		Depth to Groundwater

Note: All depths referenced as approximate depth below the existing surface (bgs)

[ML] - USCS symbol

NE - not encountered

PID = Photo-ionization Detector

PID results in parts per million

WEAVER'S AUTO BODY
NORTHWEST TRIANGLE INITIATIVE, CITY OF YORK, YORK COUNTY, PENNSYLVANIA

Project: Northwest Triangle
Location: City of York, York County, Pennsylvania
Date:

ARM Project: 07214
ARM Rep.: S. Fulton/C. Iozza
Excavation Contractor: ARM Group

BORING ID AND SUMMARY DESCRIPTION OF SUBSURFACE

Depth	WADB-1	PID	WADB-2	PID	WADB-3	PID	WADB-4	PID	WADB-5	PID	WADB-6	PID	Depth
0	GRAVEL and Stone	0		0	GRAVEL	0	GRAVEL	0	GRAVEL	0		0	0
1	Silty SAND	0	GRAVEL and Stone with silt	0		0		0		0	GRAVEL, fill, brick.	0	1
2		0	Ash and Stone	0		0		0		0		0	2
3		0	SILT, black, coal fines.	0	SILT, fill, black ash, brown brick.	0	SILT, fill, black ash, brown brick.	0		0		0	3
4	Black sandy GRAVEL (coal fines)	0		0		0		0	SILT, fill, gasoline odor.	0	CLAY	0.7	4
5		0	Gravelly CLAY, brown.	0		0		0		0	CINDERS, black.	0	5
6	CLAY, brown, moist.	0		0		0		0		5		0	6
7		0	CLAY, brown, moist with depth.	0	CLAY, brown, soft, moist.	0	CLAY, brown, soft, moist.	0				0	7
8		0		0		0		0		7	CLAY, brown.	0	8
9						0		0				0	9
10					QUARTZITE	0	QUARTZITE	0	CLAY, Gravelly, gasoline odor at 12'				10
11					CLAY, brown, soft, moist.	0	CLAY, brown, soft, moist.	0					11
12						0		0		50			12
Termination Depth (bgs)	8.0'		8.0'		12.0'		12.0'		13.0'		10.0'		Termination Depth (bgs)
Notes	Sampled at 7.5' - 8.0'		Sampled at 7.5' - 8.0'		Not sampled		Not sampled		Refusal on Limestone at 13.0'. Sampled at 7.5'-8.0' and 11'-11.5'		Not sampled		Notes
Depth to Groundwater	NE		NE		Saturated soils at 10'		Saturated soils at 10'		Saturated soils at 10'		NE		Depth to Groundwater

Note: All depths referenced as approximate depth below the existing surface (bgs)
NE - not encountered
PID = Photo-ionization Detector
PID results in parts per million

APPENDIX D

B&C Fasteners UST Removal Photos



1. Before UST Removal



2. Removal of Sidewalk



3. Line from UST to Building



4. Top of USTs



5. Removal of UST 1



6. Removal of UST 2



7. Backfilled Excavation



8. Restored Sidewalk