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Via Federal Express

June 13, 2008

South Carolina Department of Health
and Environmental Control
Groundwater Quality Section
Bureau of Water
2600 Bull Street
Columbia, South Carolina 29201

RECEIVED
JUN 1...
Water Monitoring, Assessment &
Protection Division

Attention: Ms. Addie Walker

Re: Additional Assessment ~~Work Plan~~ Report
Delavan Spray Technologies Site
Bamberg, South Carolina
Site ID #02211
H&H Job No. GDR-006

Dear Ms. Walker:

On behalf of Delavan Spray Technologies, Hart & Hickman, PC (H&H) is providing SCDHEC with the attached Ground Water Assessment report for the Delavan site in Bamberg, Bamberg County, South Carolina.

Should you have any questions or require any additional information, please feel free to contact us at (704) 586-0007.

Very truly yours,

Hart & Hickman, PC

Steven C. Hart, PG
Principal

Shannon Cottrill
Project Manager

cc: Richard Kearse (Via U.S. Mail)
Bruce Amig (Via U.S. Mail)

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Ground Water Assessment Report
Delavan Spray Technologies Facility
Bamberg, South Carolina
DHEC Site ID #02211

H&H Job No. GDR-006

June 13, 2008

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6/13/08

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Ground Water Assessment Report
Delavan Spray Technologies Facility
Bamberg, South Carolina
H&H Job GDR-006

1.0 Introduction

On behalf of Delavan Spray Technologies (Delavan), Hart & Hickman, PC (H&H) has completed additional ground water assessment activities at the Delavan facility located at 4434 Main Highway (a.k.a., US Highway 301 South) in Bamberg, Bamberg County, South Carolina. Delavan manufactures fuel metering equipment and various spray-type nozzles at the facility. A site location map is provided as Figure 1, and a site layout is provided as Figure 2.

This report presents the methods and results of the additional ground water assessment activities and provides updated information concerning closure and sampling of nearby domestic water supply wells. A discussion of the recent domestic well activities is described in Section 2.0. The additional monitoring well installations and ground water sampling activities are detailed in Section 3.0. Our summary and recommendations are outlined in Section 4.0.

2.0 Domestic Well Information and Municipal Connection Update

2.1 Previous Well Information

In accordance with DHEC's request, H&H completed a domestic well survey for the residential area located to the east of the Delavan facility on January 12, 2007 by performing site reconnaissance and door-to-door inquiry. Although municipal water service is available to the neighborhood to the east of the facility, H&H identified two domestic wells on properties in this neighborhood which were not connected to the municipal water source. The two domestic wells were identified as the Frazier well and the Thomas well. The locations of these domestic wells are indicated in Figure 2.

Information concerning sampling and closure of the Frazier and Thomas wells is provided below. In addition, information concerning a newly installed domestic well (Kinsey well) located southwest of the site is also provided below. The location of the Kinsey well is indicated in Figure 2.

2.2 Thomas Well

The Thomas water supply well was abandoned by H&H in November 2007. Information concerning sampling and abandonment of the well is provided below.

In January 2007, H&H collected a water sample from the Thomas well. The collected water sample was analyzed for VOCs by EPA Method 8260B. The results indicated VOCs in the Thomas well at concentrations below the DHEC maximum contaminant levels (MCLs). The Thomas well sample contained 1,2-dichloroethane (2.27 μg/l), cis-1,2-dichloropropene (1.14 μg/l), trans-1,2-dichloropropene (1.91 μg/l), PCE (4.44 μg/l), and 1,2,4-trichlorobenzene (2.00 μg/l).

Although no compounds were detected above MCLs in the well, as a precautionary measure, H&H provided a written offer to the property owner to connect the residences served by the well to municipal water at no charge to the well owner. The owner of the Thomas well accepted

H&H's offer to connect to the municipal supply, and H&H secured written permission to make the municipal connection and to abandon this well.

H&H arranged for two municipal water connections and a sewer connection to be set at the Connelly property (Thomas well location). Between June 13 and 15, 2007, the City of Bamberg Public Works Department installed the two municipal water taps and sewer tap in the right-of-way which fronts this property.

After the municipal taps were installed, H&H arranged for a private plumbing contractor to install service lines from the municipal taps and make the necessary connections to the residences on the Connelly property. On June 20, 2007, H&H's plumbing contractor capped the supply well service lines and made the final municipal water and associated sewer connections to these residences.

In accordance with DHEC's request, H&H attempted to determine construction details for the Thomas well. On June 1, 2007, H&H visited the property to inspect the well for a tag and visited the Bamberg County Environmental Health Department to review water well completion records. No well tag was observed on or in the vicinity of the domestic well and no record of well completion was found at the Bamberg County Environmental Health Department for this well.

On November 7, 2007, H&H attempted to conduct a down-hole camera survey of the Thomas well. However, due to the small diameter of the well (approximately 1.5 inches) and the nature of the down-hole well piping for the jetted well, the down-hole camera survey was not conducted. During a follow-up conversation with Mrs. Connelly, H&H was granted permission to abandon this well.

Upon securing the owner's permission, H&H abandoned the Thomas well on November 13, 2007. Prior to abandonment, H&H used an electronic water level meter to determine static water level and total depth of the Thomas well. The static water level was measured at 14.50 ft below ground surface (bgs) and the total depth of the well was measured at 37 ft bgs. A copy of the well abandonment record for the Thomas well is provided in Appendix A.

2.3 Frazier Well

The Frazier well is located on a property which contains two vacant residences. Therefore, the well is not currently in use. Information concerning sampling of the well and attempts to connect the property to the municipal water supply are provided below.

Based on information obtained from the City of Bamberg Public Works Department, a water account had been set up for the Frazier address. However, the account was inactive.

In January 2007, H&H obtained permission to sample the Frazier well. No VOCs were detected in the ground water sample collected from the Frazier well. Although no compounds were detected in the well, as a precautionary measure, H&H provided a written offer to the Frazier property owners to connect the residences served by the well to the municipal water at no charge to the well owners. The Frazier well property owners are still considering the offer to connect the residences to the municipal water supply but have not granted permission to date.

In accordance with DHEC's request, H&H attempted to determine construction details for the Frazier well. On June 1, 2007, H&H visited the property to inspect the well for a tag and visited the Bamberg County Environmental Health Department to review water well completion records. No well tag was observed on or in the vicinity of the domestic well and no record of well completion was found at the Bamberg County Environmental Health Department for this well.

H&H attempted to re-sample the Frazier well as part of the comprehensive ground water monitoring event conducted in January 2008. Several attempts were made to contact the property owner/occupant to obtain permission to sample this well and to reiterate the offer to connect the residences on the property to the municipal water supply. Although H&H was able to contact one of the seven owners of this property (Ms. Lorrine Frazier), permission to sample and abandon the well could not be secured. Therefore, no sample was collected from the Frazier well during the January 2008 sampling event.

As noted above, the Frazier residences are currently vacant and the well is not in service. As a precautionary measure, H&H will continue efforts to connect the property to municipal water and abandon this well.

2.4 Kinsey Well

H&H discovered the presence of a newly installed off-site domestic well on an adjacent property owned by Mr. John Kinsey in early January 2008 during ground water assessment activities. Since that time, the property has been connected to the municipal water supply. Information concerning the water supply well is provided below.

The Kinsey well is situated approximately 360 ft to the southwest of the southwest corner of the main Delavan building (Figure 2). Although municipal water connection is available, Mr. Kinsey had the well installed in September 2007 to service his residence which was under construction. According to the well tag, the Kinsey well is approximately 100 ft deep and is constructed with 42 ft of four-inch diameter PVC surface casing. The well tag also indicates that the well was completed on September 19, 2007 by a South Carolina well driller with a registration number of 606.

On January 9, 2008, H&H visited the Kinsey property on behalf of Delavan and offered to sample Mr. Kinsey's well. At that time, Mr. Kinsey declined H&H's offer. In a letter dated February 6, 2008, H&H renewed the offer to Mr. Kinsey to have his well sampled and tested for VOCs. In addition, H&H also offered Mr. Kinsey the opportunity to connect his residence to the Bamberg Board of Public Works municipal water supply system and close his well or to install filtration equipment.

After our February 2008 letter, Mr. Kinsey responded to H&H's offer in a telephone call on February 28, 2008 and granted H&H permission to sample his well. With his permission, H&H

collected a ground water sample from this well on March 4, 2008. The results of the water supply well sample indicate the presence of VOCs above MCLs. Of the three VOCs detected, concentrations of PCE (37 µg/l) and vinyl chloride (5.21 µg/l) exceeded their MCLs of 5 µg/l and 2 µg/l, respectively. Although 2-butanone (or methyl ethyl ketone, MEK) was detected at a concentration of 220 µg/l in this sample, no MCL has been established for this compound.

Following receipt of the laboratory data, H&H notified Mr. Kinsey of the sampling results by telephone on March 20, 2008. Based on the presence of these compounds in his well, H&H recommended that the water from his well not be used for any purpose. A written notification along with a copy of the sampling results was forwarded to Mr. Kinsey on March 24, 2008.

Following our March 24, 2008 letter, multiple attempts were made to contact Mr. Kinsey's attorney to re-new the offer to connect the Kinsey residence to the municipal supply and abandon his well. Mr. Kinsey's attorney responded to these communications on June 6, 2008 and indicated that the Kinsey residence was connected to the Bamberg Board of Public Works municipal supply. Although the Kinsey well is not being used for drinking water, Mr. Kinsey's attorney indicated that he is not inclined to abandon his well at this time.

3.0 Additional Ground Water Assessment

3.1 Previous Assessment Information

Previous assessment activities indicate the presence of chlorinated VOCs in ground water at the Delavan facility. The primary constituent of concern is tetrachloroethene (PCE). Other analytes historically detected in ground water samples include trichloroethene (TCE) and cis-1,2-dichloroethene (DCE) which are biodegradation products of PCE.

The results of previous ground water assessment activities are summarized in a Ground Water Assessment report dated March 15, 2004. Following submittal of the March 2004 Ground Water Assessment report, DHEC requested that Delavan prepare a remedial plan to address PCE presence in ground water at three locations in the vicinity of monitor wells MW-1, MW-9, and MW-10. Delavan submitted a Work Plan for Remedial Activities on August 11, 2004 proposing the implementation of enhanced biodegradation using Hydrogen Release Compound (HRC). The Work Plan was approved by DHEC on October 27, 2004.

Prior to the injection of HRC, H&H submitted an Underground Injection Control (UIC) permit application to DHEC's UIC Section on January 31, 2005. The UIC Section issued an injection permit (Permit No. 816) for the site on February 11, 2005.

The HRC injection was conducted on March 15 and 16, 2005. Following the HRC injection, quarterly post-injection monitoring events were conducted in accordance with the DHEC-approved sampling scheme. A comprehensive sampling event was conducted in March 2006 which included the sampling of each site monitoring well. Following the March 2006 sampling, an additional quarterly sampling event of MW-1, MW-9, and MW-10 was conducted in June 2006. The results of this sampling were presented in an October 10, 2006 monitoring report.

Following review of the January 2007 monitoring report, DHEC requested additional ground water assessment be conducted in a letter dated May 1, 2007. In accordance with DHEC's request, H&H and Delavan submitted an Additional Assessment Work Plan on July 17, 2007.

DHEC subsequently provided comments on the work plan. In response to DHEC's comments, H&H and Delavan submitted an Additional Assessment Work Plan (Revision 1) to DHEC on October 17, 2007. In a letter dated October 25, 2007, DHEC approved the revised work plan.

The objectives of the additional ground water assessment activities were to:

- determine the vertical extent of volatile organic compounds (VOCs) in ground water at the site
- correlate lithological units and determine the top of rock depth in the site area prior to installing deeper monitor wells
- collect a comprehensive set of ground water data

The methods and results of the additional ground water assessment activities are provided in the following sections.

3.2 Decontamination and Investigation Derived Waste

To delineate the vertical extent of VOCs in ground water, H&H installed three Type III deeper monitoring wells at the site between December 10 and 17, 2007. Drilling equipment was decontaminated between each boring by steam cleaning. Decontamination water and fluids were collected in a decontamination pit and were subsequently containerized in labeled 55-gallon drums.

Monitoring well drill cuttings and development water were containerized in labeled 55-gallon drums. For waste characterization purposes, H&H collected one composite sample each from the drummed drill cuttings and development water for analysis of toxicity characteristic leaching procedure (TCLP) VOCs and TCLP metals. The results of the TCLP analyses indicated that all compound concentrations were well below their respective RCRA regulatory levels that define characteristic hazardous waste. Therefore, the investigation derived waste (IDW) was managed as non-hazardous. The IDW soil and water drums were subsequently transported off-site by

Delavan's disposal contractor for proper disposal/treatment at an approved facility. The laboratory report for the IDW soil and water sampling is provided in Appendix C.

3.3 Monitoring Well Installations

In their letter of May 1, 2007, DHEC requested evaluation of the vertical extent of compounds in ground water. Because regional geologic information indicated that calcareous sandstone containing shells and/or sandy limestone might be encountered at depths of approximately 50 ft below ground surface (bgs), the deeper Type III monitoring wells were installed using hollow-stem auger and mud-rotary drilling techniques based on the potential for rock at relatively shallow depths.

The deeper wells (labeled MW-3D, MW-9D, and MW-10D) were installed regionally downgradient of monitor wells MW-1, MW-9, and MW-10 (Figure 2). H&H anticipated that deeper ground water flow was with regional topography to the west and northwest. The deeper well proposed downgradient of MW-1 (labeled MW-3D) was installed near existing shallow well MW-3. The locations of the deeper monitor wells were approved by Ms. Addie Walker with DHEC prior to installation.

Prior to drilling in the three deeper well locations, H&H advanced one stratigraphic boring (labeled STB-1) to a depth of approximately 60 ft bgs in the western portion of the site. The purpose of the stratigraphic boring was to determine overall site stratigraphy to the top of rock, evaluate likely construction details for the deeper wells prior to their installation, and correlate stratigraphy across the site. During the advancement of the stratigraphic boring, soil samples were collected continuously at 2 ft intervals to the terminus of the boring. The location of the stratigraphic boring is shown in Figure 2.

- we already know we have cad. at 100' ad at Lansey well

To correlate stratigraphy across the site and aid in the decision-making process for surface casing depths, soil borings were advanced using a direct-push technology rig in the locations of MW-9D and MW-10D prior to setting the surface casings in these locations. Soil samples from these borings were collected continuously.

During the installation of the deeper monitor wells, split-spoon soil samples were collected at 5 ft intervals for soil lithology classification. Based on lithology, H&H installed the deeper Type III wells to depths of approximately 49 ft in MW-3D and MW-9D and 48 ft in MW-10D. H&H installed 6-inch diameter PVC surface casings to approximate depths of 24 ft in MW-3D and MW-9D and 30 ft in MW-10D. The deeper Type III wells were completed as 2-inch diameter monitoring wells with 5 ft sections of 10-slot well screen. Boring logs and well construction records for the newly installed wells are provided in Appendix B.

3.4 Site Geology

Based upon the additional borings, H&H prepared cross-sections to depict geology at the site. The cross-sections were developed using the boring logs for monitoring wells and the stratigraphic boring. The cross-sections locations are provided on Figure 2 and the cross-sections are shown on Figures 5 and 6.

Based upon the lithology of the stratigraphic boring (STB-1), the site is generally underlain by:

- fine to medium sands to a depth of approximately 5 ft bgs
- clayey medium sands to approximately 18 ft bgs
- clays and fine sandy clays to approximately 22 ft bgs
- fine sandy silts and clayey silts to depths of approximately 22 ft and 26 ft bgs
- clayey sands between 26 ft and 32 ft bgs
- limestone characterized by partially cemented coarse shell fragments to a depth of approximately 36 ft bgs
- fossiliferous limestone characterized by cemented shell fragments to an approximate depth of 59 ft bgs
- very stiff to hard fine sand to the boring terminus of 60 ft bgs

Although the above generalization is fairly consistent across the site, the lithological units vary in depth and thickness depending on the location at the site, and the gradations between units are gradual. For example, the fossiliferous limestone zone was encountered in MW-3D at a depth of approximately 40 ft bgs as compared to 36 ft bgs in STB-1. Furthermore, this layer is significantly thinner in MW-3D (6 ft) as compared to STB-1 (23 ft).

Not all of the lithological units encountered in STB-1 were encountered during the drilling of the deeper monitoring wells. This is evident in the correlation of lithological units for MW-10D, MW-3D, and STB-1. A silty clay layer was encountered in MW-10D between 26 ft and 30 ft bgs but not in MW-3D or STB-1. The presence of this silty clay layer in the area of MW-10D may limit the downward migration of VOCs in site ground water in this area of the site.

3.5 Well Elevations and Water Levels

Following installation, H&H determined monitoring well top of casing and ground surface elevations for the newly installed deeper monitoring wells relative to the existing site well network using surveying techniques.

Following development of the additional monitoring wells, H&H measured water levels in existing and newly installed wells as part of the comprehensive ground water monitoring event on January 8, 2008. Water levels ranged from approximately 5 to 14 ft below top of casing elevations in the shallow wells and from approximately 9 to 16 ft in the deeper wells. The water level data and well construction information is presented in Table 2.

Based on the January 8, 2008 dataset, potentiometric maps were developed for the shallow and deeper zones (Figures 3 and 4). Overall, the shallow potentiometric surface map indicates a ground water flow direction toward a north-south trending ground water trough located in the center of the site. In the deeper zone, overall ground water flow direction was determined to be toward the south in the general direction of regional surface topography. The hydraulic gradients are approximately 0.01 ft/ft in the shallow zone and 0.001 ft/ft in the deeper zone.

In their letter of October 25, 2007, DHEC requested that vertical hydraulic gradients be calculated using the newly installed deeper wells and the closest shallow wells. In accordance with their request, H&H evaluated vertical hydraulic gradients for the January 8, 2008 water level dataset (Table 3). Based on the January 8, 2008 data, the vertical hydraulic gradient is downward in all three well pairs. For example, the water level for well pair MW-3 (shallow)/MW-3D (deeper) is approximately three feet higher in the shallow well. The greatest difference in shallow and deep well elevation was observed in well pair MW-10 (shallow)/MW-10 (deeper) where the water elevation was approximately 4 ft higher in the shallow well.

3.6 Ground Water and Surface Water Sampling

Following installation of the deeper Type III wells, H&H conducted a comprehensive ground water sampling event at the site on January 8 and 9, 2008. As part of the comprehensive sampling event, ground water samples were collected from each of the existing 11 on-site monitoring wells and the three newly installed deeper monitoring wells. The collected ground water samples were analyzed for VOCs by EPA Method 8260B (reporting the EPA 601 list only). In addition to the monitoring well samples, H&H collected a surface water sample from the stream located northwest of the Delavan facility in the location of previous surface water sample SW-1 (Figure 2). The surface water sample was also analyzed for VOCs.

Prior to collection of the ground water samples, the wells were purged using dedicated disposable bailers until pH, temperature, and specific conductivity stabilized. In-situ readings for dissolved oxygen were collected using a dissolved oxygen meter prior to well purging. All other field parameters were measured after purging.

To further evaluate the effect of previous remedial actions, ground water samples from select shallow wells in the area of the HRC injections (MW-1, MW-9, and MW-10) were analyzed for geochemical parameters in addition to the VOCs mentioned above. Field geochemical parameters collected from these wells included dissolved oxygen, oxidation reduction potential (ORP), specific conductivity, pH, and temperature. To evaluate the potential residual effects of the HRC injection, H&H also collected ground water samples from these wells for laboratory analysis of total organic carbon (TOC).

The collected samples were analyzed by a South Carolina certified laboratory. Laboratory-supplied sample bottles were used for sample collection. A chain-of-custody record was completed for samples collected and included sample description, date collected, time collected, matrix, sample container information, and analyses required. The chain-of-custody was signed by H&H field personnel prior to placement in an iced cooler for shipment to the laboratory. Prior to shipment, a custody seal was placed on the cooler so that any tampering or opening of the cooler could be detected by the laboratory. Ground water analytical results for the monitoring wells are provided in Appendix D.

3.7 Ground Water Results

The laboratory report for the January 2008 sampling event is included as Appendix D. A summary of recent and historical ground water monitoring data is provided in Table 4. Geochemical data are summarized on Table 5.

Ground Water VOC Results

The PCE concentrations in ground water from the January 2008 sampling event are presented on Figures 7 (shallow monitor wells) and 8 (deep monitor wells). As indicated on Figure 7, PCE was detected in shallow monitoring wells MW-1 (5,390 µg/l), MW-2 (2.50 µg/l), MW-3 (59.8 µg/l), MW-5 (97.6 µg/l), MW-8 (159 µg/l), MW-9 (2,410 µg/l), MW-10 (3,250 µg/l). Other target analytes detected in shallow monitoring wells include TCE, cis-1,2-DCE, 1,1-DCE, and vinyl chloride which are biodegradation products of PCE.

Figure 8 depicts the PCE concentrations detected in deeper ground water during the January 2008 event. PCE was detected in monitoring wells MW-3D and MW-10D at concentrations of 432 µg/l and 4.09 µg/l, respectively. PCE was not detected in well MW-9D. Other analytes were detected in MW-3D only and included TCE, cis-1,2-DCE, and 1,1-DCE. No other target analytes were detected in MW-9D or MW-10D.

Geochemical Parameters

As mentioned in Section 4.5, the ground water samples from MW-1, MW-9, and MW-10 were also analyzed for geochemical evaluation parameters during the January 2008 sampling event to further evaluate the effect of previous remedial actions. A discussion of the individual geochemical indicators for the January 2008 sampling event is provided below.

Dissolved Oxygen: Reductive dechlorination occurs under anaerobic or low dissolved oxygen (DO) conditions. Dissolved oxygen concentrations of less than 5 mg/l are acceptable while concentrations less than 1 mg/l are ideal.

DO concentrations since HRC injection have been near or below 5 mg/l in each of the three wells sampled. DO concentrations appear particularly well suited to reductive dechlorination in the area of MW-9 where the post-injection DO ranged from 0.19 mg/l to 2.76 mg/l. The DO concentrations in January 2008 were relatively low in each of the sampled wells [MW-1 (3.45 mg/l), MW-9 (1.45 mg/l), and MW-10 (1.25 mg/l)].

Total Organic Carbon (TOC): Organic carbon is utilized as an electron donor (or may produce hydrogen which can serve as the electron donor) in the reductive dechlorination process and therefore is needed to drive the process. Organic carbon can be naturally occurring or introduced by man (i.e., by injecting a carbon source such as HRC). The presence of TOC at concentrations greater than 20 mg/l is considered ideal for reductive dechlorination.

Consistent with the January 2007 event, TOC concentrations were not detected in ground water samples collected from MW-1, MW-9, or MW-10 in January 2008. Based on this data, the TOC concentrations are below the optimum TOC of at least 20 mg/l and it appears that a significant carbon source to drive the reductive dechlorination process is no longer present in these source areas.

Redox Potential: The redox or oxidation-reduction potential (ORP) of ground water is a measure of electron activity, and is an indicator of the relative tendency of a solution to accept or transfer electrons. The ORP of a ground water system depends upon and influences rates of biodegradation. Reductive dechlorination is most efficient in the ORP range corresponding to sulfate reduction and methanogenesis (<-100 mV); however, dechlorination of PCE and other chlorinated ethenes also occurs in the ORP range associated with nitrate, manganese, and ferrous iron reduction (-50 to 740 mV). ORP is generally consistent with dissolved oxygen data, with low dissolved oxygen levels corresponding to low ORP potentials.

ORP values in each of the wells MW-1, MW-9, and MW-10 were in the range of -13.8 to 70 mV during the January 2008 sampling event. This range is associated with nitrate, manganese, and ferrous iron reduction.

Summary

In summary, there is evidence that anaerobic degradation of PCE occurred at the site as a result of the 2005 HRC injection. This evidence includes decreases in PCE concentrations compared to historical maximums in each of the three HRC-injected areas and the increased presence of PCE daughter products (TCE and cis-1,2-DCE) in all three monitoring wells. However, recent data indicates that the HRC has likely been consumed and the aquifer is low in organic carbon which is needed to drive the reductive dechlorination process.

3.8 Surface Water Results

H&H collected a surface water sample (labeled SW-1) from the stream located northwest of the Delavan facility in January 2008 (Figure 2). The results of the surface water sampling indicate that no target analytes were detected above laboratory detection limits (Table 4 and Appendix D).

4.0 Summary and Recommendations

H&H has completed additional ground water assessment activities at the Delevan facility located at 4434 Main Highway (a.k.a., US Highway 301 South) in Bamberg, Bamberg County, South Carolina. The additional ground water assessment activities were conducted in general accordance with our October 17, 2007 Additional Assessment Work Plan (Revision 1). The following is a summary of the additional ground water assessment activities.

Domestic Wells

H&H arranged for two municipal water connections and a sewer connection to be set at the Connelly property (Thomas well location). The City of Bamberg Public Works Department set the taps at the property between June 13 and 15, 2007. After the municipal taps were installed, H&H's plumbing contractor capped the supply well service lines and made the final municipal connections to these residences on June 20, 2007. H&H abandoned the Thomas well on November 13, 2007.

The Frazier property residences are currently vacant and therefore the well at the property is not in use. Previous sampling of the Frazier well indicated that no compounds were detected. H&H has provided a written offer to connect the Frazier property residences to the municipal water supply and abandon the well. The offer is still being considered by the Frazier property owners. H&H attempted to re-sample the Frazier well as part of the comprehensive ground water monitoring event conducted in January 2008. H&H contacted one of the Frazier property owners to re-sample the well and reiterate the offer to connect the property to the municipal water supply. However, access was not granted for these activities. H&H will continue efforts to connect the property to municipal water and abandon this well.

H&H discovered the presence of a newly installed off-site domestic well on an adjacent property owned by Mr. John Kinsey in early January 2008 during ground water assessment activities. Mr. Kinsey had the domestic well installed in September 2007 to service his residence which was under construction. The results of a water sample collected from his well indicate the presence

366 Calhoun st. Bamburg

12' WT
6" PVC 100' deep

Allen Hagood
05092611
803 267 7881

of PCE, vinyl chloride, and MEK. Following receipt of the laboratory data, H&H notified Mr. Kinsey of the sampling results by telephone and recommended that the water from his well not be used for any purpose. A written notification of the results and an offer to connect the property to the municipal water supply and abandon the well were forwarded to Mr. Kinsey on March 24, 2008. Following our March 24, 2008 letter, several attempts were made to contact Mr. Kinsey's attorney to re-new the offer to connect the Kinsey residence to the municipal supply and abandon his well. Mr. Kinsey's attorney responded to our communications on June 6, 2008 and indicated that the Kinsey residence is now connected to the Bamberg Board of Public Works municipal supply.

Ground Water Assessment

H&H installed three deeper Type III monitoring wells at the site to delineate the vertical extent of VOCs in ground water. The deeper wells were installed in locations regionally downgradient of monitor wells MW-1, MW-9, and MW-10. Following installation of these wells, H&H sampled both new and existing monitoring wells. The results of the ground water sampling indicate that chlorinated VOCs are present in shallow ground water above MCLs. The primary compounds detected in ground water included PCE (up to 5,390 μg/l), TCE (up to 297 μg/l), 1,1-DCE (up to 24.1 μg/l), cis-1,2-DCE (up to 271 μg/l), and vinyl chloride (up to 8.37 μg/l).

PCE (432 μg/l) was also detected above the MCL in the newly installed deeper monitoring well in the southern portion of the site (MW-3D). No or low concentrations of PCE were detected in the two additional deeper wells MW-9D and MW-10D.

Recommendations

To further delineate the vertical and horizontal extent of VOCs in ground water, H&H proposes to install and sample four additional deeper Type III monitoring wells and one additional shallow monitor well. The locations of the proposed wells are indicated in Figure 9. The additional wells are proposed in the following locations:

- One deeper Type III monitoring well will be installed in a location regionally downgradient of monitoring well MW-1 near MW-3D where the deeper PCE concentration was detected above MCLs.
- One deeper Type III monitoring well will be installed near the western site property boundary between shallow monitoring well MW-2 and the off-site Kinsey well.
- One shallow and one deeper Type III monitoring wells (nested well pair) will be installed in the southern right-of-way of US Highway 301 South in a location regionally downgradient of deeper monitoring well MW-3D.
- One deeper Type III monitoring well will be installed near the eastern property between shallow monitoring well MW-1 and the off-site Frazier well.

Based on the deeper PCE detection in well MW-3D (approximately 50 ft bgs) and the depth of the off-site Kinsey well (approximately 100 ft bgs), H&H anticipates that the deeper well proposed next to MW-3D will be drilled to an approximate depth of 100 to 120 ft with a 6-inch diameter PVC surface casing of approximately 75 ft. This deeper Type III well will be completed as a 2-inch diameter monitoring well with a 5 ft section of 10 slot well screen. Following completion, H&H will submit a ground water sample from this deeper well for laboratory analysis of VOCs on an expedited turnaround basis. The results of analysis of the deeper well sample will be used to determine the target drilling depths for the remaining three deeper Type III monitoring wells.

Following completion of the monitoring well installations and associated ground water sampling, H&H will prepare an Additional Ground Water Assessment report for the site. H&H also recommends that quarterly sampling no longer be conducted because there is evidence that the HRC has been consumed.

Table 1
Well Inventory
Delavan Spray Technologies
Bamberg, South Carolina
H&H Job No. GDR-006

WSW ID	Tax Parcel ID	Well Address	Owner Information	Well Use	Municipal Water Status
Frazier Well	0072-08-02-1	527 Log Branch Road Bamberg, SC 29003	Lorrine Frazier 623 Calhoun Street Bamberg, SC 29003 (803)-245-4364	Currently, Inactive	Available. Water Account Inactive
Thomas Well	0072-08-02-16	589 Log Branch Road Bamberg, SC 29003	Robert A. Thomas 1450 Capernaum Road Bamberg, SC 29003 Phone Number Unknown	Abandoned 11/13/2007	Connected to Municipal Water
Kinsey Well	0073-80	4336 Main Highway Bamberg, SC 29003	John T. Kinsey 336 Calhoun Street Bamberg, SC 29003 (803) 245-2745	Newly Installed, Irrigation	Connected to Municipal Water

Notes:
Water supply wells are shown on Figure 2
Information from on-site interview, Bamberg County Tax Assessor, and City of Bamberg Public Works

Table 2
Monitoring Well Construction and Ground Water Elevation Data
Delavan Spray Technologies
Bamberg, South Carolina
H&H Job No. GDR-006

Well No.	Total Depth	Screen Interval (ft bgl)	Top of Casing Elevation	Pre-HRC Injection									
				6/5/2003		7/9/2003		12/31/2003		1/16/2004		3/14/2005	
				Depth to Water	Elevation	Depth to Water	Elevation	Depth to Water	Elevation	Depth to Water	Elevation	Depth to Water	Elevation
MW-1	18	3-18	100.00	9.70	90.30	8.42	91.58	12.88	87.12	13.02	86.98	12.54	87.46
MW-2	18	3-18	100.45	5.81	94.64	4.76	95.69	12.52	87.93	12.73	87.72	11.95	88.50
MW-3	18	3-18	100.90	11.41	89.49	9.20	91.70	14.11	86.79	14.11	86.79	13.54	87.36
MW-4	14	4-14	99.99	4.11	95.88	3.59	96.40	10.38	89.61	10.63	89.36	9.24	90.75
MW-5	14	4-14	98.52	4.72	93.80	3.68	94.84	10.87	87.65	10.81	87.71	8.74	89.78
MW-6	14	4-14	96.25	2.40	93.85	2.30	93.95	8.09	88.16	7.29	88.96	6.44	89.81
MW-7	20	5-20	101.82	NI	NI	NI	NI	14.88	86.94	14.93	86.89	13.97	87.85
MW-8	20	5-20	98.48	NI	NI	NI	NI	12.06	86.42	12.17	86.31	11.97	86.51
MW-9	20	5-20	97.05	NI	NI	NI	NI	9.82	87.23	9.55	87.50	8.45	88.60
MW-10	18	3-18	95.26	NI	NI	NI	NI	7.48	87.78	7.52	87.74	5.19	90.07
MW-11	18	3-18	96.17	NI	NI	NI	NI	8.00	88.17	8.12	88.05	7.48	88.69

Well No.	Total Depth	Screen Interval (ft bgl)	Top of Casing Elevation	Post-HRC Injection															
				6/1/2005		9/20/2005		12/12/2005		3/28/2006		6/26/2006		10/6/2006		1/12/2007		1/8/2008	
				Depth to Water	Elevation	Depth to Water	Elevation	Depth to Water	Elevation	Depth to Water	Elevation	Depth to Water	Elevation	Depth to Water	Elevation	Depth to Water	Elevation	Depth to Water	Elevation
MW-1	18	3-18	100.00	12.31	87.69	12.66	87.34	13.41	86.59	11.97	88.03	12.16	87.84	13.67	86.33	12.06	87.94	13.50	86.50
MW-2	18	3-18	100.45	10.56	89.89	12.37	88.08	12.99	87.46	10.59	89.86	10.44	90.01	13.13	87.32	10.63	89.82	11.63	88.82
MW-3	18	3-18	100.90	13.86	87.04	13.94	86.96	14.58	86.32	13.49	87.41	13.67	87.23	14.15	86.75	13.24	87.66	13.62	87.28
MW-3D	49	44-49	100.92	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	16.10	84.82
MW-4	14	4-14	99.99	10.23	89.76	11.44	88.55	11.81	88.18	7.53	92.46	9.26	90.73	11.82	88.17	7.79	92.20	9.53	90.46
MW-5	14	4-14	98.52	9.77	88.75	10.51	88.01	11.30	87.22	6.74	91.78	8.74	89.78	11.57	86.95	7.33	91.19	9.09	89.43
MW-6	14	4-14	96.25	6.38	89.87	8.24	88.01	8.29	87.96	4.17	92.08	6.30	89.95	9.46	86.79	4.90	91.35	6.10	90.15
MW-7	20	5-20	101.82	14.45	87.37	14.52	87.30	15.11	86.71	13.91	87.91	14.22	87.60	14.99	86.83	13.23	88.59	14.20	87.62
MW-8	20	5-20	98.48	12.14	86.34	13.07	85.41	12.81	85.67	11.17	87.31	12.32	86.16	13.67	84.81	11.62	86.86	12.85	85.63
MW-9	20	5-20	97.05	7.61	89.44	10.57	86.48	9.33	87.72	6.91	90.14	8.98	88.07	11.60	85.45	7.41	89.64	8.17	88.88
MW-9D	49	44-49	96.86	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	11.82	85.04
MW-10	18	3-18	95.26	6.02	89.24	7.51	87.75	7.45	87.81	3.49	91.77	5.82	89.44	8.65	86.61	4.12	91.14	5.66	89.60
MW-10D	48	43-48	94.88	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	9.45	85.43
MW-11	18	3-18	96.17	7.87	88.30	8.90	87.27	8.63	87.54	6.84	89.33	8.01	88.16	9.26	86.91	7.30	88.87	7.89	88.28

Notes:
bgl = below ground level; NI = Not Installed
Depth to water measured relative to top of casing; elevations referenced to an assumed datum of 100.00 ft at the top of casing elevation of MW-1
HRC injection activities were conducted at the site on March 15 and 16, 2005
Deeper well MW-3D is a Type III well with 24 ft of 6-inch diameter PVC surface casing
Deeper well MW-9D is a Type III well with 24 ft of 6-inch diameter PVC surface casing
Deeper well MW-10D is a Type III well with 30 ft of 6-inch diameter PVC surface casing

Table 3
Vertical Hydraulic Gradients (January 8, 2008)
Delavan Spray Technologies
Bamberg, South Carolina
H&H Job No. GDR-006

Well Cluster	Location Relative to MW-1 (1)	Well Identification	Well Depth (ft)	Ground Water Elevation (ft)	Vertical Gradient
1	Upgradient	MW-3	18	87.28	
		MW-3D	49	84.82	Downward
2	Upgradient	MW-9	20	88.88	
		MW-9D	49	85.04	Downward
3	Upgradient	MW-10	18	89.60	
		MW-10D	48	85.43	Downward

Table 4 (Page 1 of 2)
Summary of Ground Water and Surface Water Analytical Detections
Delavan Spray Technologies
Bamberg, South Carolina
<u>H&H Job No. GDR-006</u>

Well No.	Sample Date	Bromoform (µg/l)	Chloromethane (µg/l)	Chlorobenzene (µg/l)	2-Chloroethyl vinyl ether (µg/l)	cis-1,2-DCE (µg/l)	trans-1,2-DCE (µg/l)	PCE (µg/l)	TCE (µg/l)	1,1,2,2-PCE (µg/l)	1,1,1-TCA (µg/l)	1,1-DCE (µg/l)	1,1-DCA (µg/l)	1,3-Dichlorobenzene (µg/l)	trans-1,3-Dichloropropene (µg/l)	MTBE (µg/l)	1,2,4-Trimethylbenzene (µg/l)	Toluene (µg/l)	Xylenes (µg/l)	Vinyl Chloride (µg/l)
Ground Water Samples																				
MW-1	6/4/2003	<50	140	<50	<2,500	<50	<50	**15,000**	<50	<50	<50	<50	<50	<50	<50	<50	<50	<250	<150	<50
	12/30/2003	<800	<800	<800	<2,000	<800	<800	**11,000**	<800	<800	<800	<800	<800	<800	<800	<800	<800	<800	<800	<800
	3/14/2005	1.10	<1.00	1.90	<10.0	10.1	<1 00	**5,470**	**34.8**	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	NA	NA	NA	NA	<1.00
	6/1/2005	<1.00	<1.00	<1.00	<10.0	10.1	<1 00	**5,750**	**41.3**	<1.00	<1.00	<1.00	<1.00	<1 00	<1.00	NA	NA	NA	NA	<1.00
	9/20/2005	<2.00	<1.00	<1 00	<1.00	9.60	<1.00	**3,150**	**38.4**	3.66	<1.00	<1.00	<1.00	1.51	<1.00	NA	NA	NA	NA	<1.00
	12/12/2005	<1.00	<1.00	<1.00	NA	11.4	<1.00	**4,750**	**35.6**	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	NA	NA	NA	NA	<1.00
	3/28/2006	<1.00	<1.00	<1.00	NA	11.9	<1.00	**6,580**	**48.1**	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	NA	NA	NA	NA	<1.00
	6/26/2006	<1 0	<1.0	<1.0	<50	13	<1.0	**4,100**	**32**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA	NA	NA	NA	<1.0
	10/21/2006	<1 0	<1.0	<1 0	NA	17.9	<1.0	**9,550**	**65.8**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA	NA	NA	NA	<1.0
	1/12/2007	<1.00	<1.00	<1.00	NA	23.1	<1.00	**6,790**	**85.6**	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	NA	NA	NA	NA	<1.00
	1/9/2008	<1.00	<1.00	<1.00	NA	**102**	<1.00	**5,390**	**83.7**	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	NA	NA	NA	NA	<1.00
MW-2	6/4/2003	<1.0	<1.0	<1.0	<50	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<3.0	<1.0
	12/30/2003	<2	<2	<2	<5	<2	<2	4.5	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<4	<2
	3/14/2005	<1.00	<1.00	<1.00	<10.0	<1.00	<1.00	4.30	<1 00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	NA	NA	NA	NA	<1.00
	3/28/2006	<1.00	<1.00	<1.00	NA	<1.00	<1.00	1.21	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	NA	NA	NA	NA	<1.00
	1/9/2008	<1.00	<1.00	<1.00	NA	<1.00	<1.00	2.50	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	NA	NA	NA	NA	<1.00
MW-3	6/4/2003	<1 0	<1.0	<1.0	<50	<1.0	<1.0	**74**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<3.0	<1.0
	12/30/2003	<2	<2	<2	<5	<2	<2	**220**	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<4	<2
	3/14/2005	<1.00	<1.00	<1.00	<10.0	<1.00	<1.00	**113**	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	NA	NA	NA	NA	<1.00
	3/28/2006	<1.00	<1.00	<1.00	NA	<1.00	<1.00	**305**	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	NA	NA	NA	NA	<1.00
	1/9/2008	<1 00	<1.00	<1 00	NA	<1.00	<1.00	**59.8**	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	NA	NA	NA	NA	<1.00
MW-3D	1/9/2008	<1 00	<1.00	<1 00	NA	5.52	<1.00	**432**	3.33	<1.00	<1.00	**9.68**	<1.00	<1 00	<1.00	NA	NA	NA	NA	<1.00
MW-4	6/4/2003	<1.0	<1.0	<1.0	<50	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5 0	<3.0	<1.0
	12/30/2003	<2	<2	<2	<5	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<4	<2
	3/14/2005	<1.00	<1.00	<1.00	<10.0	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	NA	NA	NA	NA	<1.00
	3/28/2006	<1.00	<1.00	<1.00	NA	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	NA	NA	NA	NA	<1.00
	1/9/2008	<1.00	<1.00	<1 00	NA	<1.00	<1.00	<1 00	<1.00	<1.00	<1.00	<1.00	<1.00	<1 00	<1.00	NA	NA	NA	NA	<1.00
MW-5	6/4/2003	<1.0	<1.0	<1.0	<50	<1.0	<1.0	**160**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<3.0	<1.0
	12/31/2003	<2	<2	<2	<5	<2	<2	**230**	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<4	<2
	3/14/2005	<1.00	<1.00	<1.00	<10.0	<1.00	<1.00	**345**	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	NA	NA	NA	NA	<1.00
	3/28/2006	<1.00	<1.00	<1.00	NA	<1.00	<1.00	3.79	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	NA	NA	NA	NA	<1.00
	1/9/2008	<1.00	<1.00	<1.00	NA	<1 00	<1 00	**97.6**	<1.00	<1.00	<1.00	<1.00	<1 00	<1.00	<1.00	NA	NA	NA	NA	<1.00
MW-6	6/4/2003	<1.0	<1.0	<1.0	<50	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<3.0	<1.0
	12/31/2003	<2	<2	<2	<5	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<4	<2
	3/14/2005	<1.00	<1.00	<1.00	<10.0	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	NA	NA	NA	NA	<1.00
	3/28/2006	<1.00	<1.00	<1.00	NA	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	NA	NA	NA	NA	<1.00
	1/9/2008	<1.00	<1.00	<1.00	NA	<1.00	<1.00	<1.00	<1 00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	NA	NA	NA	NA	<1.00
MW-7	12/31/2003	<2	<2	<2	<5	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	3.3	<2	5.3	<2
	3/14/2005	<1.00	<1.00	<1.00	<10.0	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	NA	NA	NA	NA	<1.00
	3/28/2006	<1.00	<1.00	<1.00	NA	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	NA	NA	NA	NA	<1.00
	1/9/2008	<1.00	<1.00	<1.00	NA	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	NA	NA	NA	NA	<1.00
MW-8	12/31/2003	<2	<2	<2	<5	<2	<2	**30**	<2	<2	<2	<2	<2	<2	<2	3.1	2.0	1.9J	4.7	<2
	3/14/2005	<1.00	<1.00	<1.00	<10.0	<1.00	<1.00	**135**	1.10	<1.00	<1.00	<1.00	<1.00	<1 00	<1.00	NA	NA	NA	NA	<1.00
	3/28/2006	<1.00	<1.00	<1.00	NA	<1.00	<1.00	**102**	1.10	<1.00	<1.00	<1.00	<1 00	<1.00	<1.00	NA	NA	NA	NA	<1.00
	1/9/2008	<1.00	<1.00	<1.00	NA	<1.00	<1.00	**159**	1.66	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	NA	NA	NA	NA	<1.00
MCL		NS	NS	100	NS	70	100	5	5	NS	200	7	NS	NS	NS	NS	NS	1,000	10,000	2

Notes:
MWT-1, MWT-2, MWT-3 initially constructed as temporary wells and then converted to permanent wells MW-9, MW-10, and MW-11, respectively
Samples analyzed using EPA Method 8260; except samples collected in and after March 2005 which were analyzed using EPA Method 601
Only analytes detected in at least one sample indicated; Bold indicates concentration exceeds MCL
NS = Not Specified; NA = Not Analyzed; MCL = DHEC Maximum Contaminant Level
HRC injection activities were conducted at the site on March 15 and 16, 2005
HRC = Hydrogen Release Compound; October 2006 samples collected in October because September 2006 samples lost by Fed Ex

Table 4 (Page 2 of 2)
Summary of Ground Water and Surface Water Analytical Detections
Delavan Spray Technologies
Bamberg, South Carolina
H&H Job No. GDR-006

Well No.	Sample Date	Bromoform (µg/l)	Chloromethane (µg/l)	Chlorobenzene (µg/l)	2-Chloroethyl vinyl ether (µg/l)	cis-1,2-DCE (µg/l)	trans-1,2-DCE (µg/l)	PCE (µg/l)	TCE (µg/l)	1,1,2,2-PCE (µg/l)	1,1,1-TCA (µg/l)	1,1-DCE (µg/l)	1,1-DCA (µg/l)	1,3-Dichlorobenzene (µg/l)	trans-1,3-Dichloropropene (µg/l)	MTBE (µg/l)	1,2,4-Trimethylbenzene (µg/l)	Toluene (µg/l)	Xylenes (µg/l)	Vinyl Chloride (µg/l)
Ground Water Samples																				
MWT-1/MW-9	12/31/2003	<800	<800	<800	<2,000	<800	<800	**7,500**	<800	<800	<800	<800	<800	<800	<800	<800	<800	<800	<2,000	<800
	3/14/2005	<1.00	<1.00	<1.00	<10.0	19.1	<1.00	**3,520**	**76.0**	<1.00	<1.00	**7.30**	<1.00	<1.00	<1.00	NA	NA	NA	NA	<1.00
	6/1/2005	<1.00	<1 00	<1.00	96.3	**226**	1.40	**4,670**	**280**	<1.00	<1.00	6 70	<1.00	<1.00	<1.00	NA	NA	NA	NA	<1.00
	9/20/2005	33 9	<1 00	<1.00	<1.00	**158**	1.90	**5,000**	**295**	<1.00	1.28	**13.60**	<1.00	<1.00	1.17	NA	NA	NA	NA	<1.00
	12/12/2005	<1 00	<1.00	<1.00	NA	**182**	1.37	**3,920**	**286**	<1.00	2.05	**8.94**	<1.00	<1.00	<1.00	NA	NA	NA	NA	<1.00
	3/28/2006	<1 00	<1 00	<1.00	NA	**362**	1.57	**4,560**	**372**	<1.00	<1.00	**8.51**	<1.00	<1.00	<1.00	NA	NA	NA	NA	<1.00
	6/26/2006	<1.0	<1.0	<1.0	<50	**520**	1.7	**1,500**	**330**	<1.0	<1 0	**12**	<1.0	<1.0	<1.0	NA	NA	NA	NA	<1.0
	10/21/2006	<1.0	<1.0	<1.0	NA	**540**	<1.0	**7,490**	**504**	<1.0	<1 0	**23.5**	<1.0	<1.0	<1.0	NA	NA	NA	NA	<1.0
	1/12/2007	<1.00	<1.00	<1.00	NA	**442**	1.97	**5,630**	**626**	<1.00	<1.00	**25.3**	<1.00	<1.00	<1.00	NA	NA	NA	NA	<1.00
	1/9/2008	<1 00	<1.00	<1.00	NA	**271**	1.39	**2,410**	**297**	<1.00	1.08	5.01	<1.00	<1.00	1.39	NA	NA	NA	NA	**8.73**
MW-9D	1/9/2008	<1.00	<1.00	<1.00	NA	<1.00	<1.00	<1 00	<1.00	<1.00	<1.00	<1.00	<1.00	<1 00	<1.00	NA	NA	NA	NA	<1.00
MWT-2/MW-10	12/31/2003	<200	<200	<200	<500	<200	<200	**5,800**	<200	<200	<200	**520**	<200	<200	<200	<200	<200	<200	<400	<200
	3/14/2005	<1 00	<1.00	1.30	<10.0	40.1	1.00	**4,360**	**62.3**	<1.00	26.4	**18.6**	<1.00	<1.00	<1.00	NA	NA	NA	NA	<1.00
	6/1/2005	<1.00	<1.00	<1.00	<10.0	40.8	<1.00	**5,680**	**52.0**	<1.00	12.7	**17.5**	1.70	2.20	<1.00	NA	NA	NA	NA	<1.00
	9/20/2005	17.1	<1.00	<1.00	<1.00	27.8	<1.00	**4,360**	**46.2**	<1.00	9.03	**40.0**	<1.00	<1.00	<1.00	NA	NA	NA	NA	<1.00
	12/12/2005	<1.00	<1.00	<1.00	NA	23.2	<1.00	**3,050**	**45.2**	<1.00	11.7	**14.4**	<1.00	<1.00	<1.00	NA	NA	NA	NA	<1.00
	3/28/2006	<1.00	<1.00	<1.00	NA	16.8	<1.00	**3,090**	**27.4**	<1.00	6.10	**13.4**	<1.00	<1.00	<1.00	NA	NA	NA	NA	<1.00
	6/26/2006	<20	<20	<20	<1,000	21	<20	**1,800**	**31**	<20	<20	<20	<20	<20	<20	NA	NA	NA	NA	<20
	10/21/2006	<100	<100	<100	NA	**121**	<100	**3,380**	**<100**	<100	<100	<100	<100	<100	<100	NA	NA	NA	NA	**114**
	1/12/2007	<1 00	<1.00	<1.00	NA	12.4	<1.00	**2,980**	**32.7**	<1.00	1.22	2.08	<1.00	<1.00	<1.00	NA	NA	NA	NA	<1.00
	1/9/2008	<1 00	<1.00	<1.00	NA	**89.1**	<1.00	**3,250**	**71.9**	<1.00	10 9	**24.1**	<1 00	<1.00	<1.00	NA	NA	NA	NA	<1.00
MW-10D	1/9/2008	<1.00	<1.00	<1.00	NA	<1.00	<1.00	4.09	<1 00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	NA	NA	NA	NA	<1.00
MWT-3/MW-11	12/31/2003	<2	<2	<2	<5	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<4	<2
	3/14/2005	<1.00	<1.00	<1 00	<10 0	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	NA	NA	NA	NA	<1.00
	3/28/2006	<1.00	<1.00	<1 00	<10 0	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	NA	NA	NA	NA	<1.00
	1/9/2008	<1.00	<1.00	<1 00	NA	<1.00	<1 00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	NA	NA	NA	NA	<1.00
MCL		NS	NS	100	NS	70	100	5	5	NS	200	7	NS	NS	NS	NS	NS	1,000	10,000	2
Surface Water Sample																				
SW-1	6/5/2003	<1 0	<1.0	<1.0	<50	1.0	<1.0	<1 0	<1.0	NS	<1.0	<1.0	<1.0	<1.0	NS	<1.0	<1.0	<5.0	<3.0	<1.0
	1/9/2008	<1.00	<1.00	<1.00	NA	<1.00	<1 00	<1.00	<1.00	NA	<1.00	<1.00	<1.00	<1.00	<1 00	NA	NA	NA	NA	<1.00

Notes:
MWT-1, MWT-2, MWT-3 initially constructed as temporary wells and then converted to permanent wells MW-9, MW-10, and MW-11, respectively
Samples analyzed using EPA Method 8260; except samples collected in and after March 2005 which were analyzed using EPA Method 601
Only analytes detected in at least one sample indicated; Bold indicates concentration exceeds MCL
NS = Not Specified; NA = Not Analyzed; MCL = DHEC Maximum Contaminant Level
HRC injection activities were conducted at the site on March 15 and 16, 2005
HRC = Hydrogen Release Compound; October 2006 samples collected in October because September 2006 samples lost by Fed Ex

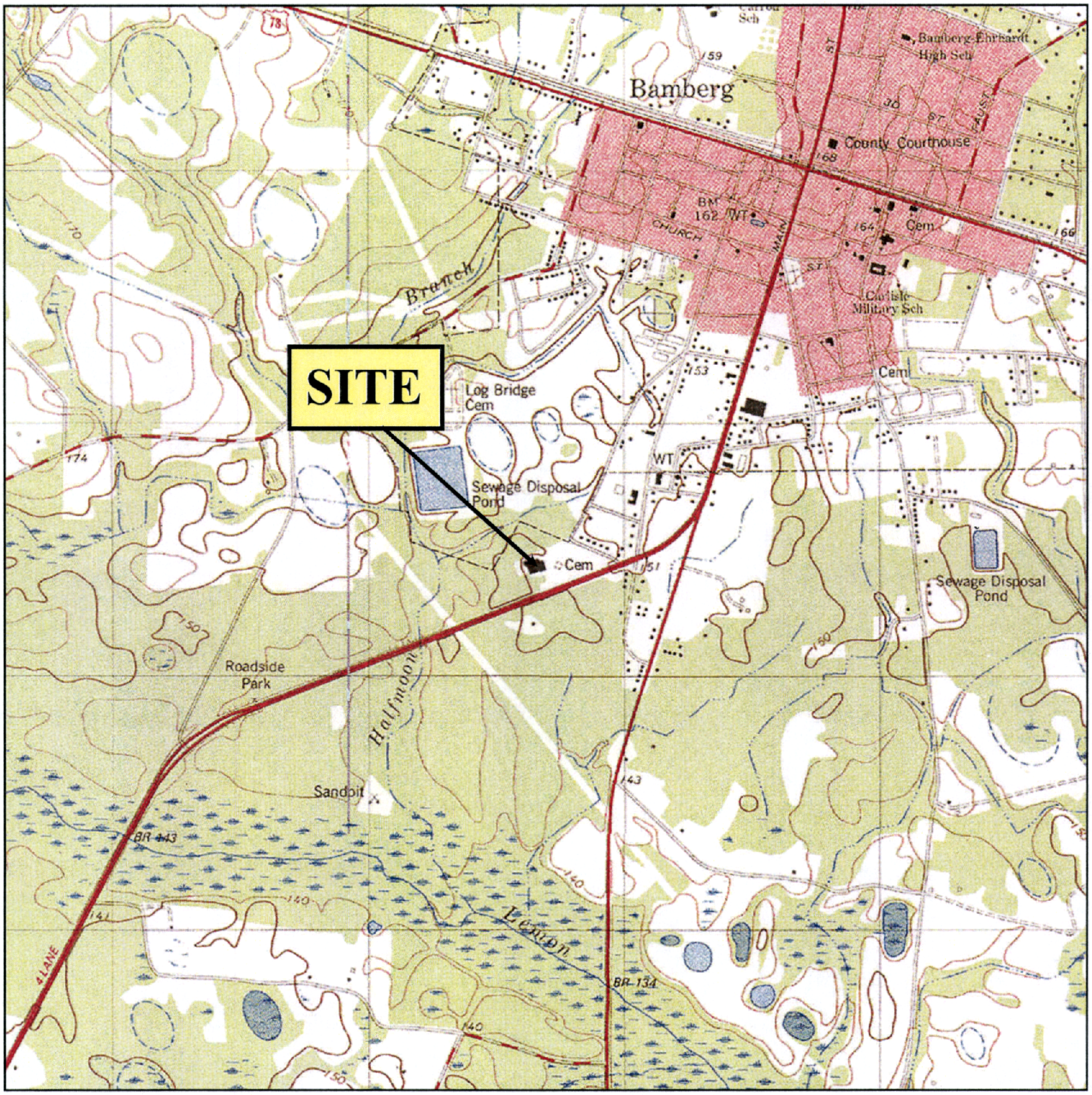
File.Data Tables,GW DATA (T4) (2)
Date: 5/19/2008

Table 5
Summary of Ground Water Geochemical Parameters
Delavan Spray Technologies
Bamberg, South Carolina
H&H Job No. GDR-006

Well No.	Sample Date	Dissolved Oxygen (mg/l)	TOC (mg/l)	Methane (mg/l)	Chloride (mg/l)	Nitrate (mg/l)	Sulfate (mg/l)	ORP (mV)	pH	Temp. (°C)	Ferrous Iron (mg/l)
Ground Water Samples											
MW-1	12/30/2003	2.35	<1.00	0.052	6.60	1 4	7 0	123	4 87	20.7	NA
	3/14/2005	3 62	<1 00	<0 026	8 41	1 28	<1.00	322	4.98	17.9	<0.2
	6/1/2005	3 15	1.48	<0 026	6 14	1.34	<1 00	234	4.94	19.3	<0.2
	9/20/2005	3 44	<1.00	<0 026	6.55	1.32	<1.00	347	4.77	25.4	<0.2
	12/12/2005	3.02	1.60	<0.026	5.73	1.65	<1.00	372	4 91	22.2	<0 2
	3/28/2006	2 96	<1 00	<0.026	6.15	1 32	<1.00	309	4 80	18 1	<0 2
	6/26/2006	3 71	1 1	<0 01	4.5	1.3	<5	314	4.93	20.6	<0.2
	10/6/2006	2.63	NA	NA	NA	NA	NA	323	4 84	23.9	NA
	1/12/2007	0.90	<1 00	<0 026	6 69	1.37	<1 00	288	4.96	21.0	<0 2
	1/9/2008	3 45	<1.00	NA	NA	NA	NA	70	4.39	21.7	NA
MW-2	12/30/2003	1.71	NA	NA	NA	NA	NA	103	4 79	20.6	NA
	3/14/2005	2.64	NA	NA	NA	NA	NA	310	4 68	17.5	<0 2
	3/28/2006	3 80	NA	NA	NA	NA	NA	299	4 82	18.4	<0 2
	1/9/2008	3.35	NA	NA	NA	NA	NA	78	5.08	21.7	NA
MW-3	12/30/2003	2 37	NA	NA	NA	NA	NA	100	5 05	21 4	NA
	3/14/2005	2.47	NA	NA	NA	NA	NA	340	4.93	17 6	<0 2
	3/28/2006	3.90	NA	NA	NA	NA	NA	260	5.16	18 6	<0 2
	1/9/2008	6.28	NA	NA	NA	NA	NA	30	4.74	21.7	NA
MW-3D	1/9/2008	1.15	NA	NA	NA	NA	NA	112	5 70	20.6	NA
MW-4	12/30/2003	1.38	NA	NA	NA	NA	NA	5	5.26	18.3	NA
	3/14/2005	1.28	NA	NA	NA	NA	NA	25	4.76	15 6	3.6
	3/28/2006	1.42	NA	NA	NA	NA	NA	-28	5.28	15.5	6.6
	1/9/2008	1.12	NA	NA	NA	NA	NA	35	5.79	18.7	NA
MW-5	12/31/2003	4.57	NA	NA	NA	NA	NA	95	5.03	19.4	NA
	3/14/2005	4.01	NA	NA	NA	NA	NA	235	4 99	16.4	<0.2
	3/28/2006	5.43	NA	NA	NA	NA	NA	285	5 20	16.7	<0 2
	1/9/2008	9.27	NA	NA	NA	NA	NA	-2	6 55	19.6	NA
MW-6	12/31/2003	3 77	NA	NA	NA	NA	NA	86	4.84	18 2	NA
	3/14/2005	1.86	NA	NA	NA	NA	NA	356	4 86	15.7	<0.2
	3/28/2006	4 67	NA	NA	NA	NA	NA	278	5.13	15.3	<0 2
	1/9/2008	8 50	NA	NA	NA	NA	NA	-30	6 06	18.2	NA
MW-7	12/31/2003	4 01	NA	NA	NA	NA	NA	13	4.89	20 2	NA
	3/14/2005	4.80	NA	NA	NA	NA	NA	425	5.01	17.3	<0.2
	3/28/2006	5 08	NA	NA	NA	NA	NA	196	5.10	18.6	<0.2
	1/9/2008	8.32	NA	NA	NA	NA	NA	-10	4.95	21 7	NA
MW-8	12/31/2003	4 15	NA	NA	NA	NA	NA	6	4.06	20 2	NA
	3/14/2005	1.80	NA	NA	NA	NA	NA	317	4.69	18.0	<0 2
	3/28/2006	2 65	NA	NA	NA	NA	NA	326	4 82	19.1	<0 2
	1/9/2008	6.12	NA	NA	NA	NA	NA	14.1	5.01	23 1	NA
MWT-1/MW-9	12/31/2003	1.33	NA	NA	NA	NA	NA	-114	5.56	17 5	NA
	3/14/2005	2.02	<1.00	<0.026	4.20	0.410	3 03	310	4 87	15.3	<0 2
	6/1/2005	0.78	1.92	<0.026	3 08	0 210	2.84	202	4.98	17.5	<0 2
	9/20/2005	0.13	1.33	<0.026	3.23	0 286	1.24	323	4 72	22.5	<0.2
	12/12/2005	0.78	1 73	<0.026	2 42	0 290	3.43	275	5.05	18.8	<0.2
	3/28/2006	0.91	3.11	<0.026	2.61	0 182	3.16	295	4 90	15 7	<0 2
	6/26/2006	1.54	3 9	<0 01	1 9	0.15	9	217	5 01	19.4	1.6
	10/6/2006	2 76	NA	NA	NA	NA	NA	142	5.43	21.9	NA
	1/12/2007	0 90	<1.00	0.033	3.31	0.266	1.78	233	5.01	17 3	<0 2
	1/9/2008	1 45	<1 00	NA	NA	NA	NA	-13 8	5 62	18.7	NA
MW-9D	1/9/2008	2.45	NA	NA	NA	NA	NA	78	7.18	19 2	NA
MWT-2/MW-10	12/31/2003	4.79	NA	NA	NA	NA	NA	-16	5.93	16 5	NA
	3/14/2005	5 30	<1.00	<0 026	4.54	0.200	<1.00	323	4 95	15.1	<0 2
	6/1/2005	4.71	1 46	<0.026	4 51	0 270	<1 00	310	5.44	18.3	0.2
	9/20/2005	3.59	<1.00	<0 026	4 86	0.592 (1)	<1 00	327	5.13	23.2	<0.2
	12/12/2005	5.27	<1 0	<0.026	<1 00	0.320	4.28	239	5 53	19.0	<0 2
	3/28/2006	4.88	<1.0	<0 026	3.93	0.201	1.01	293	5 23	15 8	<0 2
	6/26/2006	5.35	<1	<0 01	2 6	0 2	<5	260	5.29	20 6	<0 2
	10/6/2006	4.60	NA	NA	NA	NA	NA	282	5.19	22.6	NA
	1/12/2007	2.90	<1 00	<0.026	3 68	0 218	<1.00	219	5 66	16.2	<0.2
	1/9/2008	1 25	<1.00	NA	NA	NA	NA	-25	8 15	18 4	NA
MW-10D	1/9/2008	6.35	NA	NA	NA	NA	NA	35	8.69	18 9	NA
MWT-3/MW-11	12/31/2003	4.58	NA	NA	NA	NA	NA	-144	5 16	17.1	NA
	3/14/2005	0 96	NA	NA	NA	NA	NA	193	5 12	15.6	0.6
	3/28/2006	1 56	NA	NA	NA	NA	NA	76	5 17	15.5	0 6
	1/9/2008	1 05	NA	NA	NA	NA	NA	71	5 81	18.5	NA

Notes:
NA = Not Analyzed; HRC = Hydrogen Release Compound
MWT-1, MWT-2, MWT-3 initially constructed as temporary wells and then converted to permanent wells MW-9, MW-10, and MW-11, respectively
HRC injection activities were conducted at the site on March 15 and 16, 2005
(1) Sample analysis performed past method-specified holding time

File.Data Tables,GEOCHEMICAL (T5)
Date: 5/19/2008



N

APPROXIMATE
0 2000 4000
SCALE IN FEET

U.S.G.S. QUADRANGLE MAP

BAMBERG, SC 1979 (PHOTO REVISED 1987)

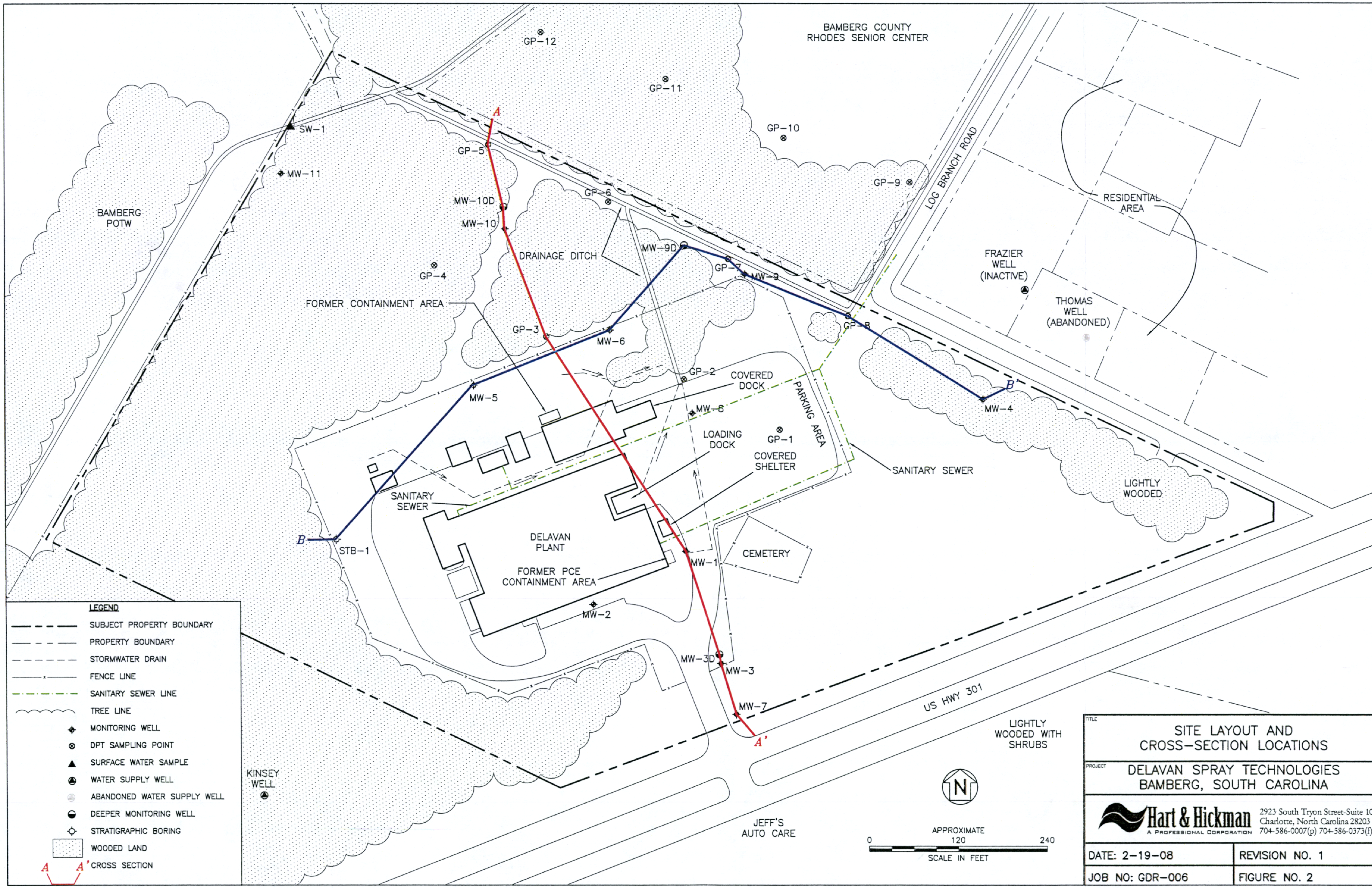
QUADRANGLE
7.5 MINUTE SERIES (TOPOGRAPHIC)

TITLE
SITE LOCATION MAP

PROJECT
DELAVAN SPRAY TECHNOLOGIES
BAMBERG, SOUTH CAROLINA

Hart & Hickman
A PROFESSIONAL CORPORATION
2923 South Tryon Street-Suite 10C
Charlotte, North Carolina 28203
704-586-0007 (p) 704-586-0373 (f)

DATE:	2-19-08	REVISION NO:	0
JOB NO:	GDR-006	FIGURE NO:	1



TITLE

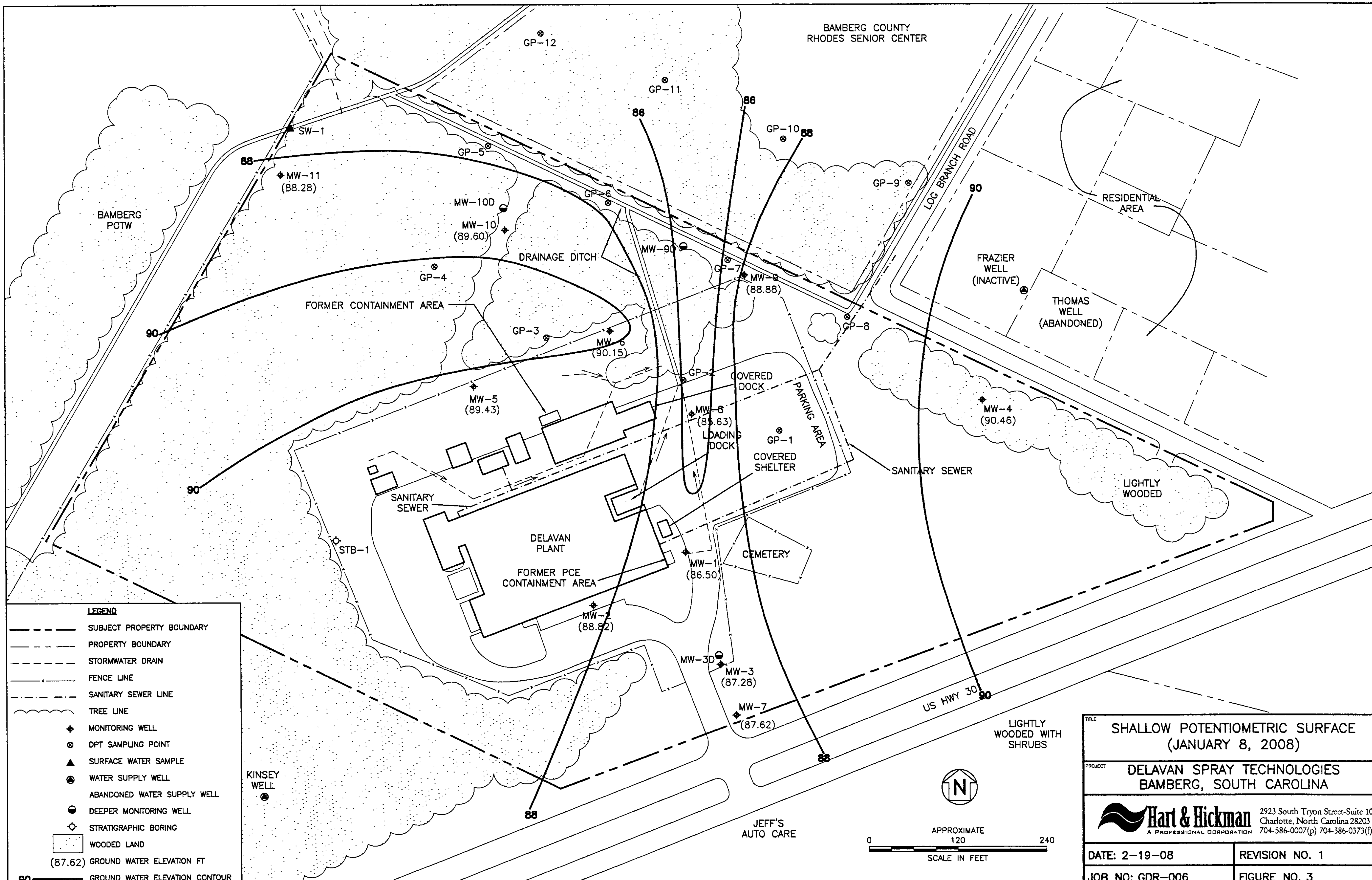
SITE LAYOUT AND
CROSS-SECTION LOCATIONS

PROJECT

DELAVAN SPRAY TECHNOLOGIES
BAMBERG, SOUTH CAROLINA

Hart & Hickman
A PROFESSIONAL CORPORATION
2923 South Tryon Street-Suite 100
Charlotte, North Carolina 28203
704-586-0007(p) 704-586-0373(f)

DATE: 2-19-08	REVISION NO. 1
JOB NO: GDR-006	FIGURE NO. 2

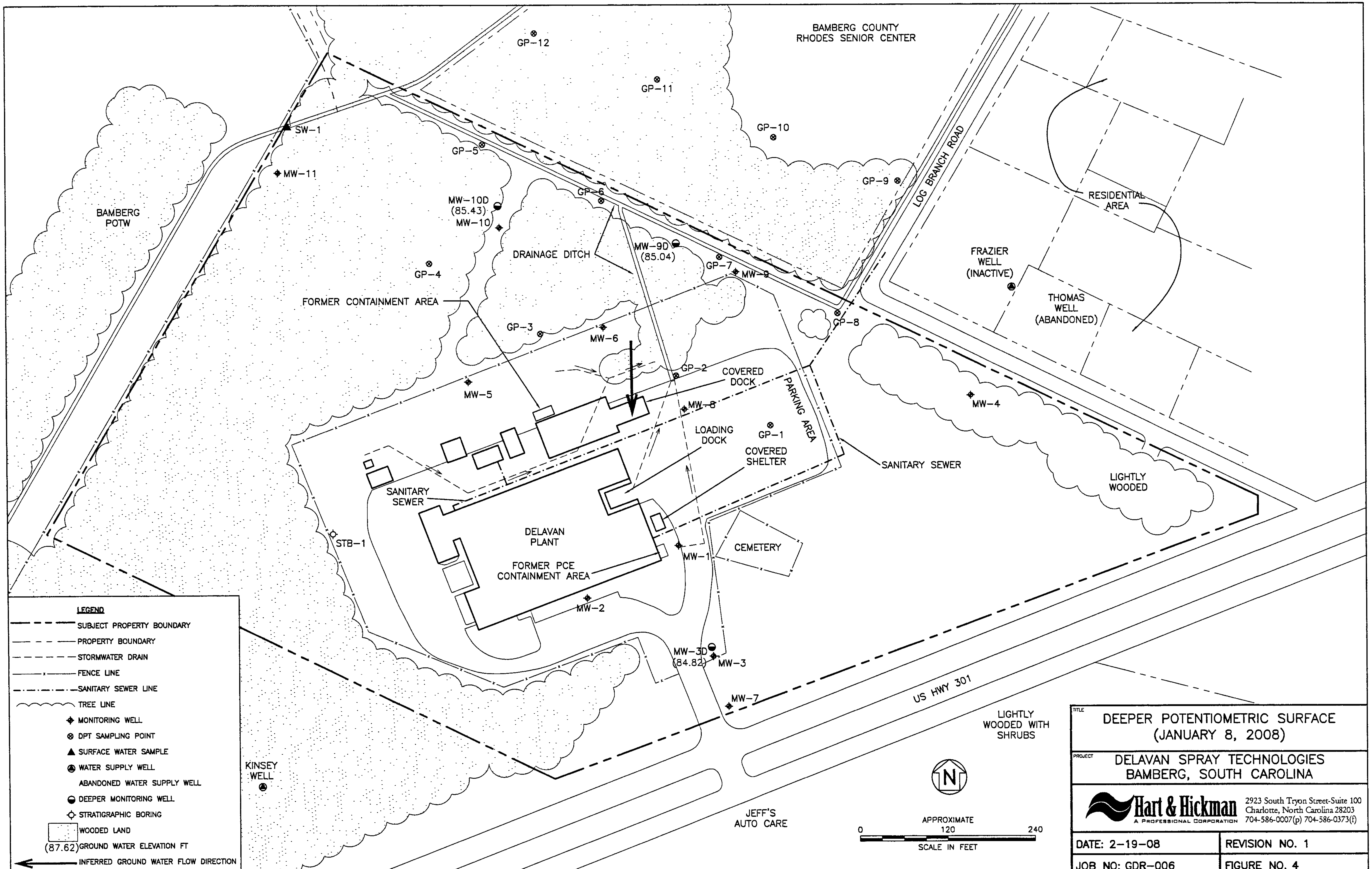


TITLE
SHALLOW POTENTIOMETRIC SURFACE
(JANUARY 8, 2008)

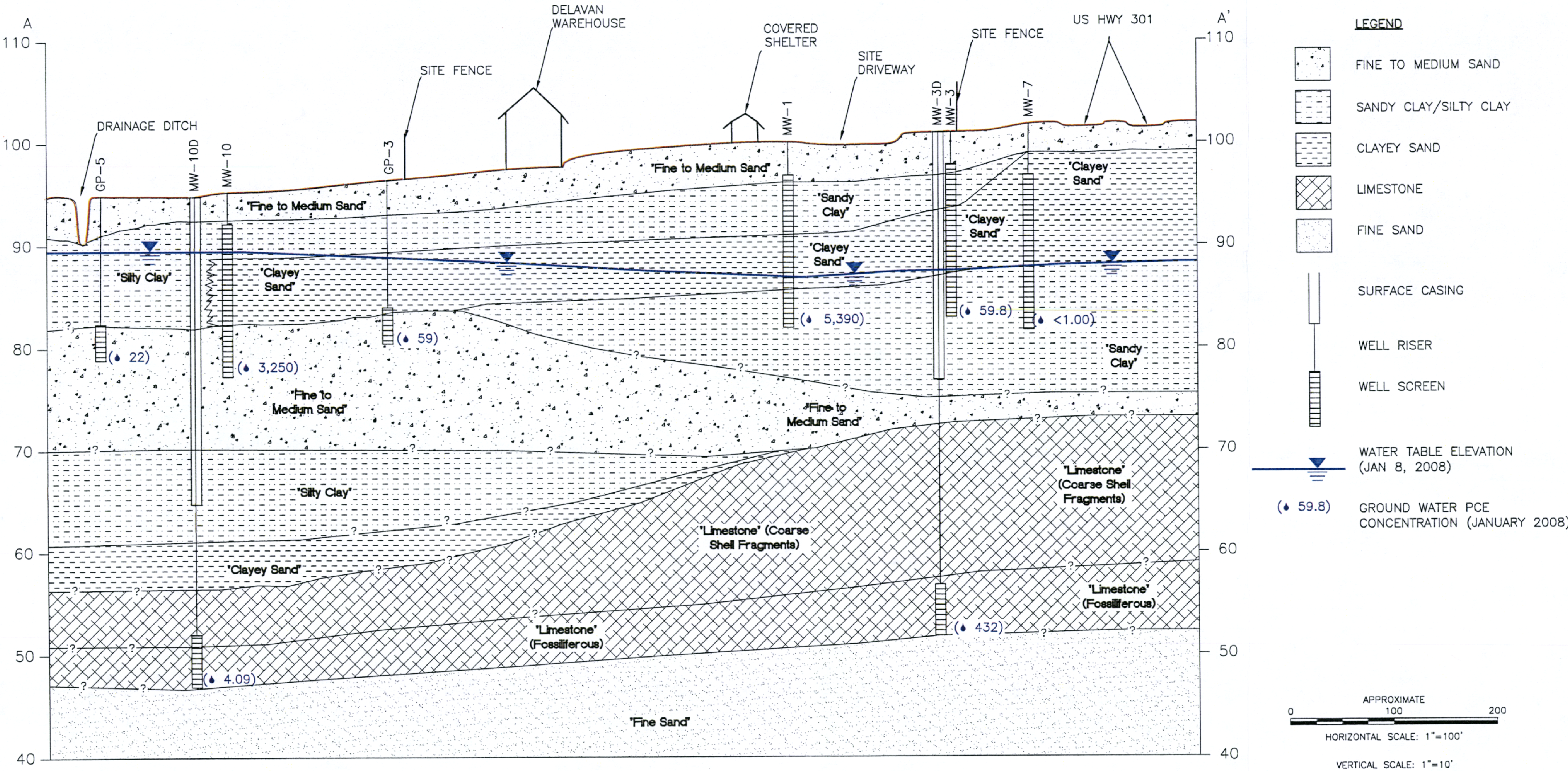
PROJECT
DELAVAN SPRAY TECHNOLOGIES
BAMBERG, SOUTH CAROLINA

Hart & Hickman
A PROFESSIONAL CORPORATION
2923 South Tryon Street-Suite 100
Charlotte, North Carolina 28203
704-586-0007(p) 704-586-0373(f)

DATE: 2-19-08 | REVISION NO. 1
JOB NO: GDR-006 | FIGURE NO. 3

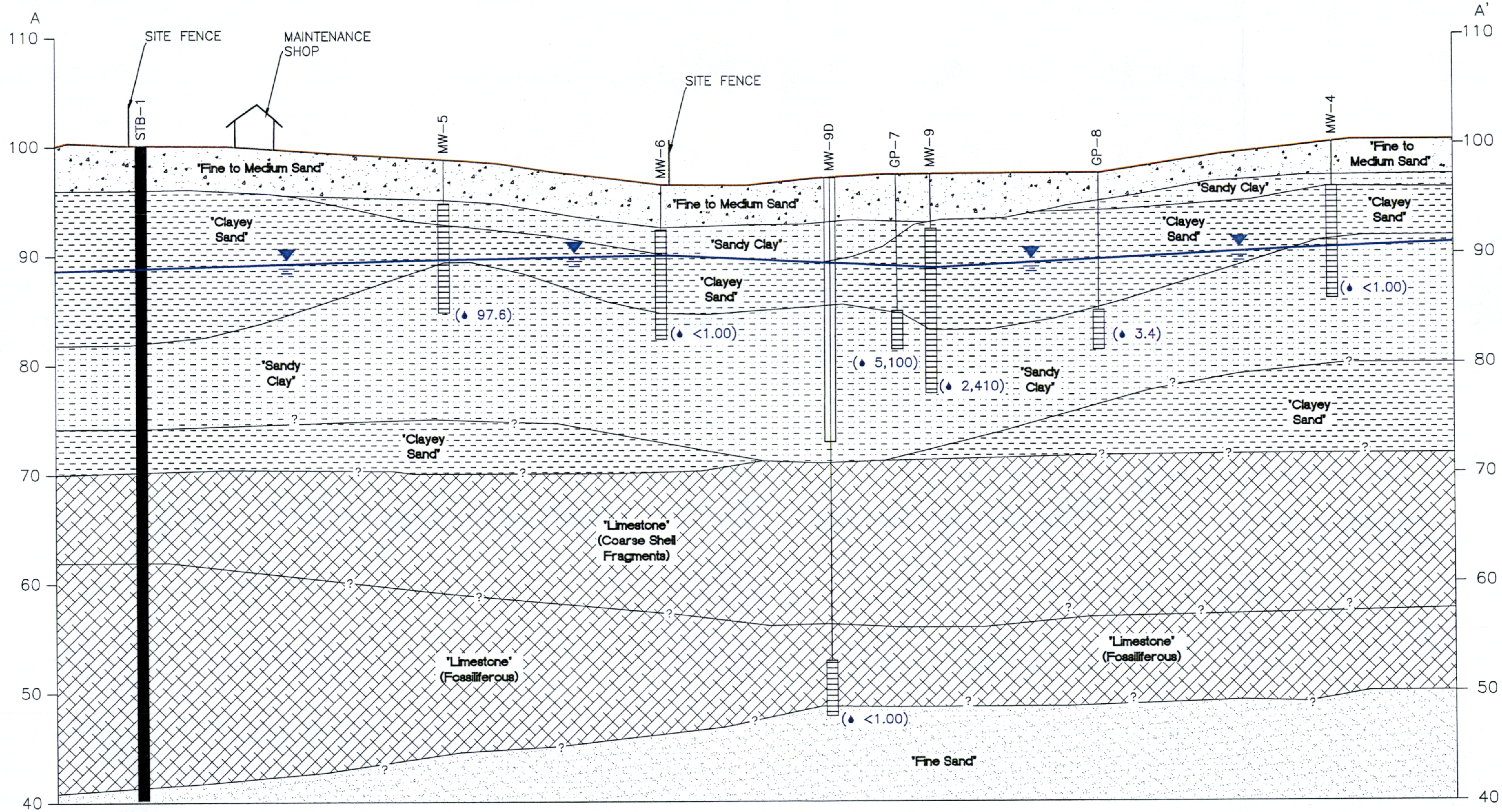


BAMBERG COUNTY RHODES SENIOR CENTER
BAMBERG POTW
GP-12
GP-11
GP-10
GP-9
GP-5
GP-6
GP-7
GP-8
GP-4
GP-3
GP-2
GP-1
SW-1
MW-11
MW-10D (85.43)
MW-10
MW-9D (85.04)
MW-9
MW-6
MW-5
MW-8
MW-4
MW-1
MW-2
MW-3D (84.82)
MW-3
MW-7
STB-1
DRAINAGE DITCH
FORMER CONTAINMENT AREA
COVERED DOCK
LOADING DOCK
COVERED SHELTER
PARKING AREA
SANITARY SEWER
SANITARY SEWER
DELAVAN PLANT
FORMER PCE CONTAINMENT AREA
CEMETERY
LOG BRANCH ROAD
RESIDENTIAL AREA
FRAZIER WELL (INACTIVE)
THOMAS WELL (ABANDONED)
LIGHTLY WOODED
LIGHTLY WOODED WITH SHRUBS
US HWY 301
KINSEY WELL
JEFF'S AUTO CARE
N
APPROXIMATE
0
120
240
SCALE IN FEET
LEGEND
SUBJECT PROPERTY BOUNDARY
PROPERTY BOUNDARY
STORMWATER DRAIN
FENCE LINE
SANITARY SEWER LINE
TREE LINE
MONITORING WELL
DPT SAMPLING POINT
SURFACE WATER SAMPLE
WATER SUPPLY WELL
ABANDONED WATER SUPPLY WELL
DEEPER MONITORING WELL
STRATIGRAPHIC BORING
WOODED LAND
(87.62) GROUND WATER ELEVATION FT
INFERRED GROUND WATER FLOW DIRECTION
TITLE
DEEPER POTENTIOMETRIC SURFACE
(JANUARY 8, 2008)
PROJECT
DELAVAN SPRAY TECHNOLOGIES
BAMBERG, SOUTH CAROLINA
Hart & Hickman
A PROFESSIONAL CORPORATION
2923 South Tryon Street-Suite 100
Charlotte, North Carolina 28203
704-586-0007(p) 704-586-0373(f)
DATE: 2-19-08
REVISION NO. 1
JOB NO: GDR-006
FIGURE NO. 4



NOTES:
1. GP-3 AND GP-5 WERE COLLECTED BY H&H IN FEBRUARY 2004
2. ELEVATIONS ARE ESTIMATED FOR GEOPROBE SAMPLING POINTS (GP-3 AND GP-5)

TITLE: GENERALIZED CROSS-SECTION A-A'	
PROJECT: DELAVAN SPRAY TECHNOLOGIES BAMBERG, SOUTH CAROLINA	
Hart & Hickman A PROFESSIONAL CORPORATION	2923 South Tryon Street-Suite 100 Charlotte, North Carolina 28203 704-586-0007(p) 704-586-0373(f)
DATE: 2-19-08	REVISION NO. 0
JOB NO: GDR-006	FIGURE NO. 5



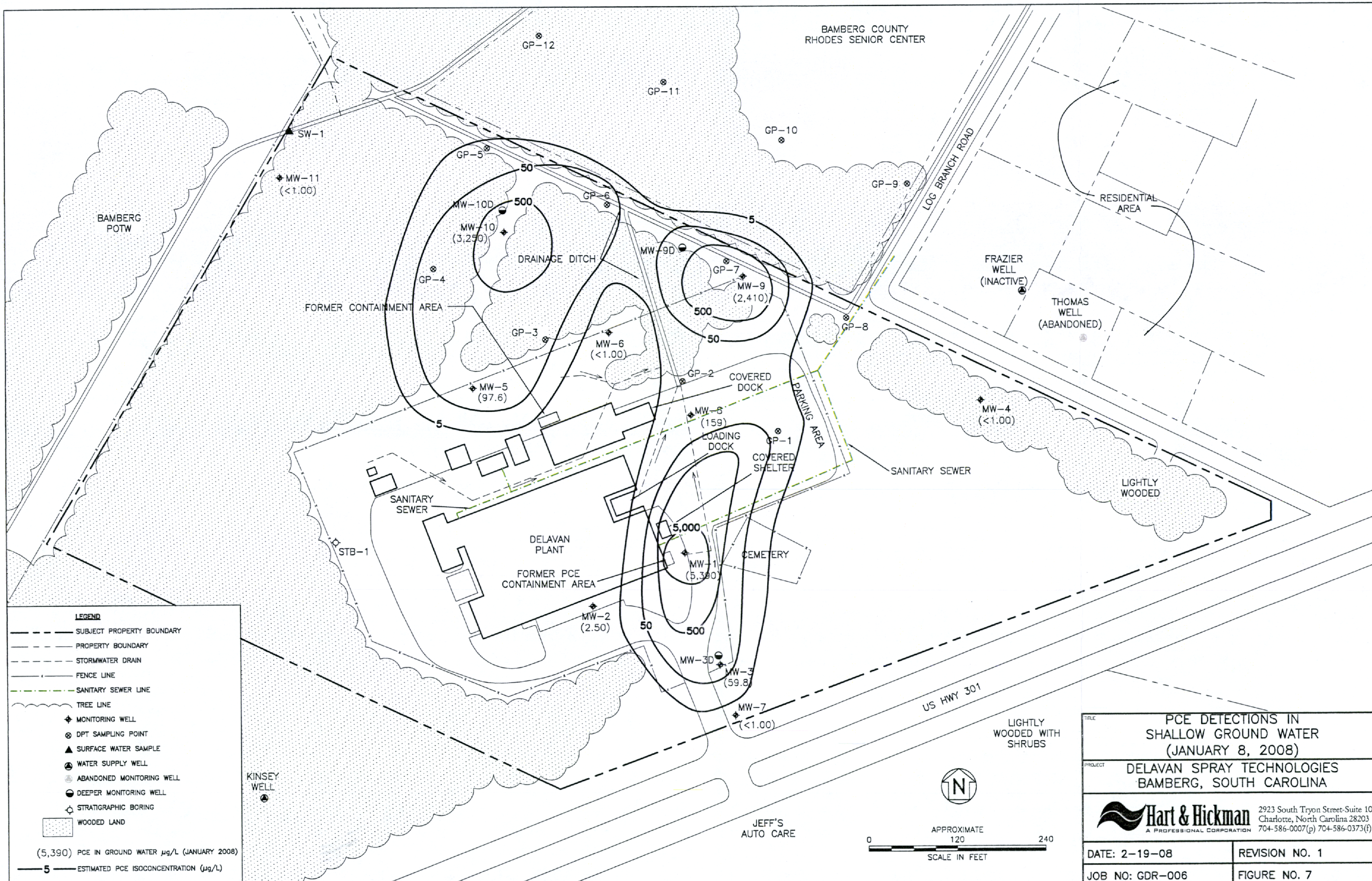
LEGEND

- FINE TO MEDIUM SAND
- SANDY CLAY/SILTY CLAY
- CLAYEY SAND
- LIMESTONE
- FINE SAND
- SURFACE CASING
- WELL RISER
- WELL SCREEN
- SOIL BORING
- WATER TABLE ELEVATION (JAN 8, 2008)
- (59.8) GROUND WATER PCE CONCENTRATION (JANUARY 2008)

APPROXIMATE
0 100 200
HORIZONTAL SCALE: 1"=100'
VERTICAL SCALE: 1"=10'

NOTES:
1. GP-7 AND GP-8 WERE COLLECTED BY H&H IN FEBRUARY 2004
2. ELEVATIONS ARE ESTIMATED FOR GEOPROBE BEDPROBE SAMPLING POINTS (GP-7 AND GP-8)

TITLE GENERALIZED CROSS-SECTION B-B'	
PROJECT DELAVAN SPRAY TECHNOLOGIES BAMBERG, SOUTH CAROLINA	
Hart & Hickman A PROFESSIONAL CORPORATION 2923 South Tryon Street-Suite 100 Charlotte, North Carolina 28203 704-586-0007(p) 704-586-0373(f)	
DATE: 2-19-08	REVISION NO. 0
JOB NO: GDR-006	FIGURE NO. 6

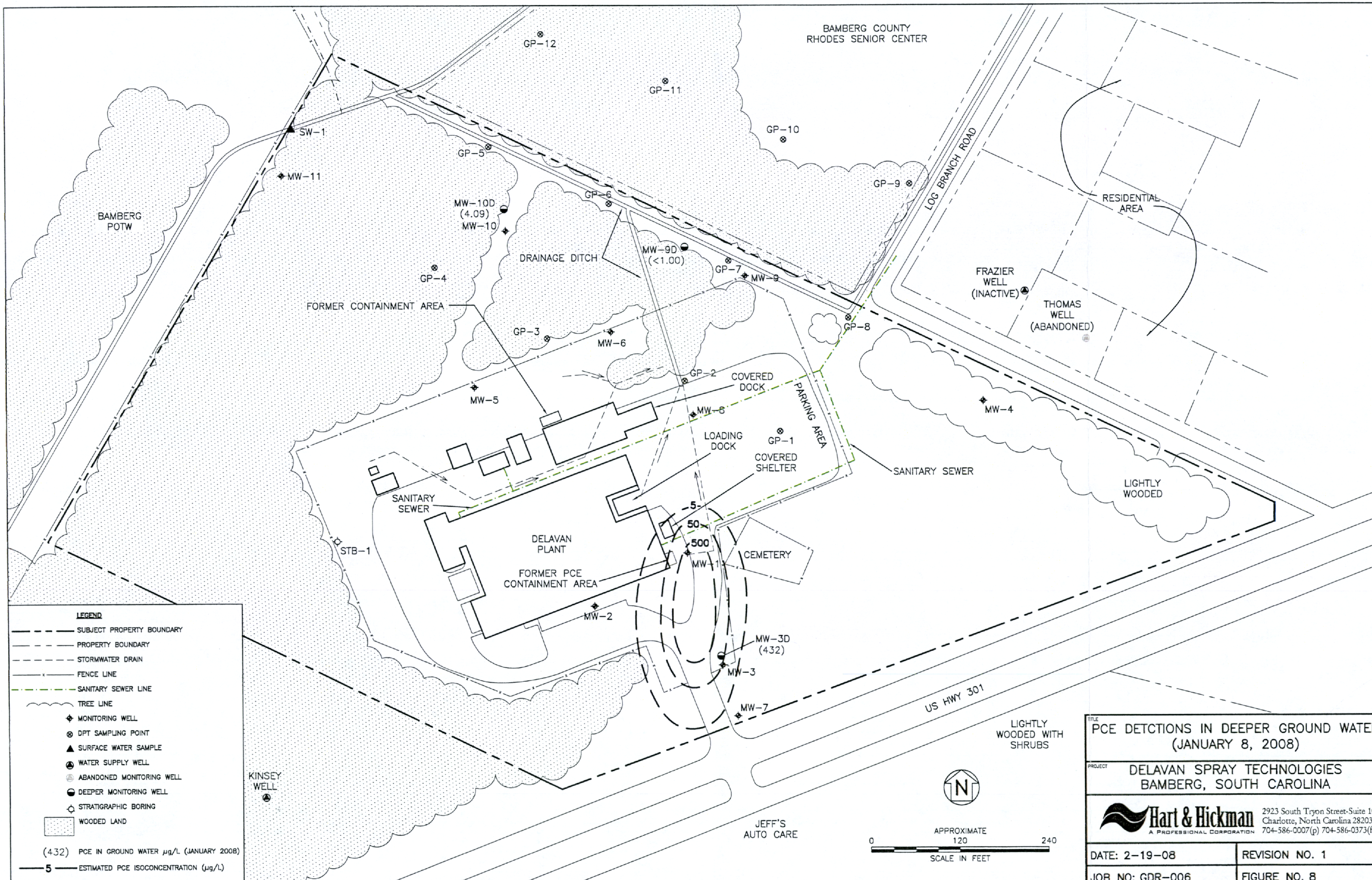


TITLE
PCE DETECTIONS IN SHALLOW GROUND WATER (JANUARY 8, 2008)

PROJECT
DELAVAN SPRAY TECHNOLOGIES
BAMBERG, SOUTH CAROLINA

Hart & Hickman
A PROFESSIONAL CORPORATION
2923 South Tryon Street-Suite 100
Charlotte, North Carolina 28203
704-586-0007(p) 704-586-0373(f)

DATE: 2-19-08	REVISION NO. 1
JOB NO: GDR-006	FIGURE NO. 7

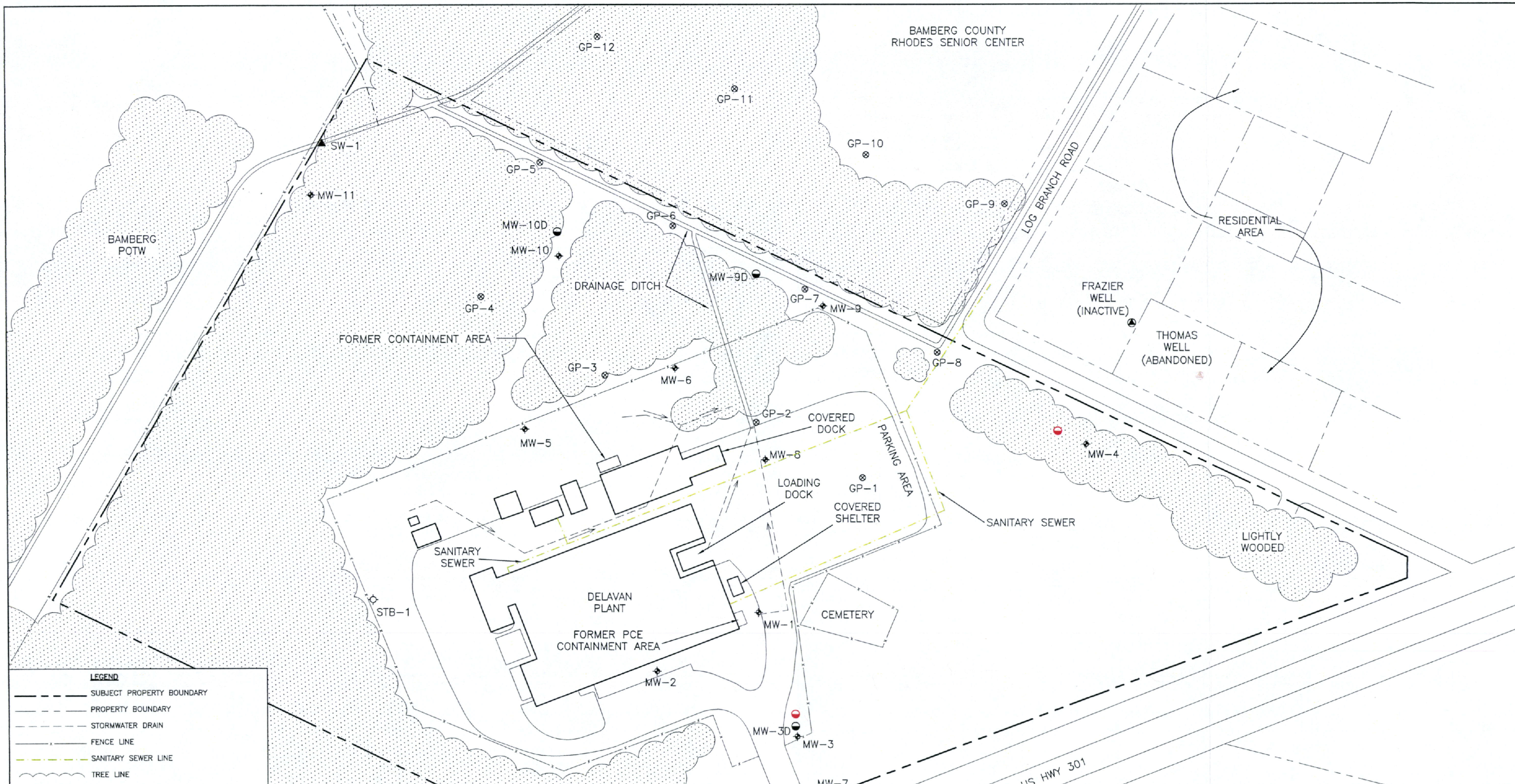


TITLE
PCE DETCTIONS IN DEEPER GROUND WATER
(JANUARY 8, 2008)

PROJECT
DELAVAN SPRAY TECHNOLOGIES
BAMBERG, SOUTH CAROLINA

Hart & Hickman
A PROFESSIONAL CORPORATION
2923 South Tryon Street-Suite 100
Charlotte, North Carolina 28203
704-586-0007(p) 704-586-0373(f)

DATE: 2-19-08	REVISION NO. 1
JOB NO: GDR-006	FIGURE NO. 8



TITLE
PROPOSED MONITORING WELL LOCATIONS

PROJECT
DELAVAN SPRAY TECHNOLOGIES
BAMBERG, SOUTH CAROLINA

Hart & Hickman
A PROFESSIONAL CORPORATION
2923 South Tryon Street-Suite 100
Charlotte, North Carolina 28203
704-586-0007(p) 704-586-0373(f)

DATE: 4-29-08	REVISION NO. 1
JOB NO: GDR-006	FIGURE NO. 9

Appendix A

Thomas Well Abandonment Record

Thomas Supply well

DHEC
PROMOTE PROTECT PROSPER

Water Well Record
Bureau of Water
2600 Bull Street, Columbia, SC 29201-1708; (803) 898-4300

1. WELL OWNER INFORMATION:
Name: Robert A Thomas
(last) (first)
Address: 1450 Capernaum Rd
City: Bamberg State: S.C Zip: 29003
Telephone: Work: 803 245-0555 Home:

2. LOCATION OF WELL: Thomas COUNTY: Bamberg
Name: 589 Log Branch Rd
Street Address:
City: Bamberg SC Zip: 29003
Latitude: Longitude:

3. PUBLIC SYSTEM NAME: PUBLIC SYSTEM NUMBER:
Thomas Supply well

4. ABANDONMENT: ☒ Yes ☐ No
Give Details Below
Grouted Depth: from 0 ft. to 37.7 ft.

Formation Description	*Thickness of Stratum	Depth to Bottom of Stratum
0 - 37.7'		
Well 1½" 37.7'	Deep	
*Indicate Water Bearing Zones (Use a 2nd sheet if needed)	15.2'	

5. REMARKS:
TRemmie Grouted from Bottom to Top 37.7'

6. TYPE. ☐ Mud Rotary ☐ Jetted ☐ Bored
☐ Dug ☐ Air Rotary ☐ Driven
☐ Cable tool ☐ Other

7. PERMIT NUMBER:

8. USE:
☐ Residential ☐ Public Supply ☐ Process
☐ Irrigation ☐ Air Conditioning ☐ Emergency
☐ Test Well ☐ Monitor Well ☐ Replacement

9. WELL DEPTH (completed) Date Started:
ft. Date Completed

10. CASING: ☐ Threaded ☐ Welded
Diam.:
Type: ☐ PVC ☐ Galvanized
☐ Steel ☐ Other
in. to ft. depth
in. to ft. depth
Height: Above/Below
Surface ft.
Weight lb./ft.
Drive Shoe? ☐ Yes ☐ No

11. SCREEN:
Type: Diam.:
Slot/Gauge Length:
Set Between: ft. and ft. NOTE: MULTIPLE SCREENS
ft. and ft. USE SECOND SHEET
Sieve Analysis ☐ Yes (please enclose) ☐ No

12. STATIC WATER LEVEL ft. below land surface after 24 hours

13. PUMPING LEVEL Below Land Surface
ft. after hrs. Pumping G.P.M.
Pumping Test: ☐ Yes (please enclose) ☐ No
Yield:

14. WATER QUALITY
Chemical Analysis ☐ Yes ☐ No Bacterial Analysis ☐ Yes ☐ No
Please enclose lab results.

15. ARTIFICIAL FILTER (filter pack) ☐ Yes ☐ No
Installed from ft. to ft.
Effective size Uniformity Coefficient

16. WELL GROUTED? ☐ Yes ☐ No
☐ Neat Cement ☐ Bentonite ☐ Bentonite/Cement ☐ Other
Depth: From ft. to ft.

17. NEAREST SOURCE OF POSSIBLE CONTAMINATION: ft. direction
Type
Well Disinfected ☐ Yes ☐ No Type: Amount:

18. PUMP: Date installed: Not installed ☐
Mfr Name: Model No.:
H.P. Volts Length of drop pipe ft. Capacity gpm
TYPE: ☐ Submersible ☐ Jet (shallow) ☐ Turbine
☐ Jet (deep) ☐ Reciprocating ☐ Centrifugal

19. WELL DRILLER: Rich Lemire CERT NO.: 1423
Address: (Print) SAEDACCO Level: A (B) C D (circle one)
9088 NoRthfield Dr
Ft mill S.C
Telephone No.: 1-800-849-0353 Fax No.

20. WATER WELL DRILLER'S CERTIFICATION. This well was drilled under my direction and this report is true to the best of my knowledge and belief

Signed: Ricky L Lemire Date: 11/13/07
Well Driller

If D Level Driller, provide supervising driller's name:

Appendix B

Monitoring Well Construction Records and Boring Logs

Hart & Hickman
ENVIRONMENTAL CONSULTANTS

2923 South Tryon Street-Suite 100
Charlotte, North Carolina 28203
704-586-0007(p) 704-586-0373(f)

8601 Six Forks Road-Suite 400
Raleigh, North Carolina 27615
919-847-4241(p) 919-847-4261(f)

BORING NUMBER : STB-1

PROJECT: Delavan Spray Technologies
JOB NUMBER: GDR-006
LOCATION: Bamberg, South Carolina

DEPTH (ft)	RECOVERY (%)	BLOW COUNT	OVA (ppm) BKG.	OVA (ppm) SAMP.	LITHOLOGY	MATERIAL DESCRIPTION	WELL DIAGRAM	DEPTH (ft)
0	90	4-5-5-5 (10)	0.4	3.6		(SM) Dry, Soft, Dark Brown/Tan, Silty Fine to Medium SAND		0
	90	4-4-5-5 (9)	0.6	1		(SM) Dry, Soft, Tan, Silty Fine to Medium SAND		
5	90	5-4-3-5 (7)	0.7	5.1				5
	90	8-9-11-20 (20)	0.9	1.1		(SC) Dry, Stiff to Hard, Dark Tan, Clayey SAND		
	90	12-12-13-17 (25)	1.6	2.7		(SC) Dry, Stiff to Very Stiff, Light Grey, Clayey Medium SAND		
10	75	5-13-15-18 (28)	1.5	3		(SC) Moist, Medium Stiff to Very Stiff, Light Grey/ Dark Red, Clayey Medium SAND		10
	80	11-8-11-15 (19)	0.9	3.8		(CL) Moist, Stiff, Grey, Marine Type CLAY		
15	90	5-8-11-14 (19)	1.2	2.5		(SC) Damp, Medium Stiff to Stiff, Tan, Clayey Medium SAND, some Medium to Coarse Quartz Grains		15
	80	7-4-3-2 (7)	0.8	11.6		(CL) Wet, Soft, Grey, Marine Type CLAY		
	95	2-2-3-3 (5)	1.2	9.2		(CL) Wet, Soft, Light Grey/ Red, Fine Sandy CLAY		
20	98	2-3-3-4 (6)	1.6	12.2				20
	98	2-3-3-3 (6)	1.5	13.1		(ML) Wet, Soft, Tan/ Light Grey/ Red, Fine Sandy SILT, Layered		
25	98	4-3-2-5 (5)	1.2	20.9		(MH) Wet, Soft to Very Soft, Tan/ Light Grey/ Red, Clayey SILT, some Fine SAND		25
	98	3-2-1-2 (3)	0.8	25.1		(SC) Wet, Soft to Medium Stiff, Dark Grey/ Tan, Clayey SAND		
	98	1-1-3-5 (4)	0.9	37.5				
30	98	3-6-8-11 (14)	0.7	18.9		Wet, Stiff, Tan, LIMESTONE, Coarse Shell Fragments (Calcareous)		30

DRILLING CONTRACTOR: GEOLOGIC EXPLORATION
DRILL RIG/ METHOD: Diedrich D-50/HSA/Mud-Rotary
SAMPLING METHOD: Split Spoon Sampler
LOGGED BY JM
DRAWN BY:

BORING STARTED 12/10/07
BORING COMPLETED: 12/11/07
TOTAL DEPTH: 60
SURFACE ELEV:
DEPTH TO WATER:

Remarks:
STB=Stratigraphic Boring

(Continued Next Page)

Hart & Hickman
ENVIRONMENTAL CONSULTANTS

2923 South Tryon Street-Suite 100
Charlotte, North Carolina 28203
704-586-0007(p) 704-586-0373(f)

8601 Six Forks Road-Suite 400
Raleigh, North Carolina 27615
919-847-4241(p) 919-847-4261(f)

BORING NUMBER : STB-1

PROJECT: Delavan Spray Technologies

JOB NUMBER: GDR-006

LOCATION: Bamberg, South Carolina

DEPTH (ft)	RECOVERY (%)	BLOW COUNT	OVA (ppm) BKG.	OVA (ppm) SAMP.	LITHOLOGY	MATERIAL DESCRIPTION	WELL DIAGRAM	DEPTH (ft)
	98	11-11-12-11 (23)	1.4	25.2		Wet, Stiff, Tan, LIMESTONE, Coarse Shell Fragments (Calcareous) *(continued)*		
35	98	11-7-11-3 (18)	1.5	36.1				35
	98	20-25-27-37 (52)	0.4	0.8		Wet, Soft to Hard, White, LIMESTONE, Fossilferous, Cemented Shell Fragments (Calcareous)		
	98	17-28-25-20 (53)	0 5	0.7				
40	98	3-4-18-25 (22)	0 6	1				40
	98	20-23-28-38 (51)	0.5	1.1				
45	98	19-13-16-22 (29)	0.5	1				45
	98	20-23-35-31 (58)	0.8	1				
	98	15-23-27-50 (50)	0.9	1.1				
50	0	25-28-31-38 (59)						50
	98	29-29-29-31 (58)	0.9	1				
55	98	6-10-14-19 (24)	0.5	0.8				55
	98	18-28-20-18 (48)	0 6	1				
	98	15-36-35-18 (71)	0.5	1.2		(SW) Wet, Very Stiff to Hard White, Fine SAND		
60						Bottom of borehole at 60.0 feet.		60

Hart & Hickman
ENVIRONMENTAL CONSULTANTS

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704-586-0007(p) 704-586-0373(f)

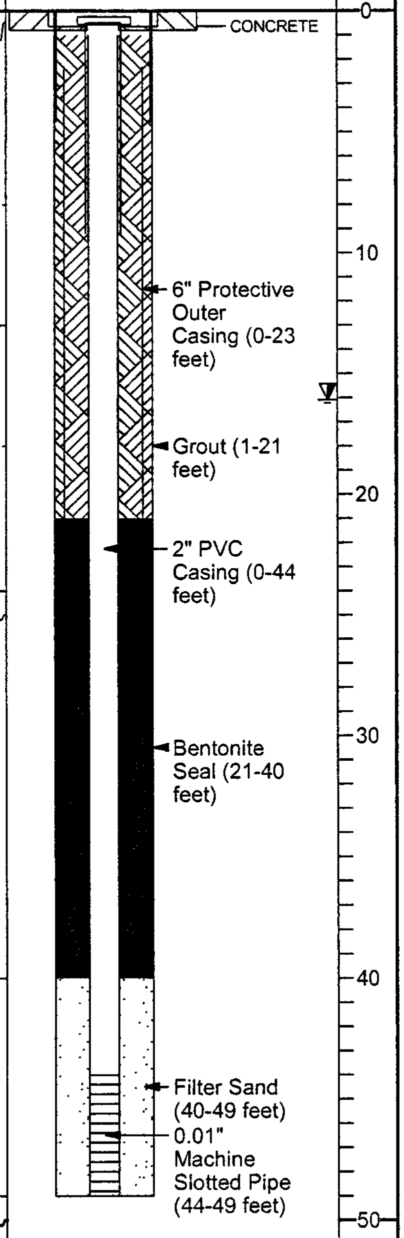
8601 Six Forks Road-Suite 400
Raleigh, North Carolina 27615
919-847-4241(p) 919-847-4261(f)

BORING NUMBER : MW-3D

PROJECT: Delavan Spray Technologies
JOB NUMBER: GDR-006
LOCATION: Bamberg, South Carolina

DEPTH (ft)	RECOVERY (%)	BLOW COUNT	OVA (ppm) BKG.	OVA (ppm) SAMP.	LITHOLOGY	MATERIAL DESCRIPTION
0						Grass/ TOPSOIL
						(SC) Dry, Soft to Medium Stiff, Dark Tan, Clayey Fine SAND
	98	4-5-4-6 (9)	0.5	1.1		
	98	6-7-8-9 (15)	0.7	1.8		(SC) Dry, Medium Stiff to Stiff, Dark Tan/ Light Grey, Clayey Medium SAND
10						
	98	4-5-7-7 (12)	0.8	1.6		(CL) Wet, Soft to Medium Stiff, Light Grey/ Tan, Coarse to Medium Sandy CLAY, Some Coarse Quartz Grains
	98	0-2-2-3 (4)	0.5	2.1		(CL) Wet, Very Soft to Soft, Light Grey/ Dark Red, Fine Sandy CLAY
20						
	98	0-0-1-2 (1)	0 6	2		(SW) Wet, Very Soft to Soft, Tan, Fine SAND
						Wet, Very Soft, Tan, Coarse Shell Fragments (Calcareous), LIMESTONE, some Fine Sand
	95	1-2-1-0 (3)	0.5	1.7		
30						
	50	3-2-2-3 (4)	0.6	2		
	25	2-2-0-0 (2)	0.8	1.2		
40						Wet, Very Soft to Stiff, White, LIMESTONE, Fossiliferous, Cemented Shell Fragments (Calcareous)
	98	0-0-2-5 (2)	1.8	2		
	98	0-5-9-10 (14)				(SW) Wet, Medium Stiff to Stiff, White, Fine SAND
50						Bottom of borehole at 50.0 feet.

WELL DIAGRAM



DRILLING CONTRACTOR: GEOLOGIC EXPLORATION
DRILL RIG/ METHOD: HSA/Mud Rotary
SAMPLING METHOD: Split-Spoon Sampler
LOGGED BY JM
DRAWN BY:

BORING STARTED 12/11/07
BORING COMPLETED: 12/13/07
TOTAL DEPTH: 50
SURFACE ELEV: 100.92 ft
DEPTH TO WATER:

Remarks:

D H E C
PROMOTE PROTECT PROSPER

Water Well Record
Bureau of Water
2600 Bull Street, Columbia, SC 29201-1708; (803) 898-4300

1. WELL OWNER INFORMATION:
Name DELAVAN SPRAY TECHNOLOGIES
(last) (first)
Address 4334 MAIN HWY
City BAMBERG State. SC Zip. 29003
Telephone Work: Home

2. LOCATION OF WELL: SC **COUNTY:** BAMBERG
Name (GOODRICH) DELAVAN SPRAY TECHNOLOGIES
Street Address HIGHWAY 301 SOUTH
City BAMBERG Zip
Latitude. Longitude.

3. PUBLIC SYSTEM NAME: **PUBLIC SYSTEM NUMBER:**

4. ABANDONMENT: ☐ Yes ☑ No
Grouted Depth: from ____ ft. to ____ ft

Formation Description	*Thickness of Stratum	Depth to Bottom of Stratum
GRASS/ORANGE/TAN SILTY SAND	8.0	8.0
BLACK TAN/ORANGE SILTY SAND	4.0	12.0
ORANGE CLAYEY SILTY SAND	8.0	20.0
RED/PURPLE SANDY SILTY CLAY	5.0	25.0
TAN/WHITE/ORANGE SILTY SAND	6.0	31.0
WHITE/ORANGE CEMENTED		
SAND/SHELL LIMESTONE	11.0	42.0
WHITE CEMENTED SAND/SHELL	7.0	49.0
WHITE SAND	1.0	50.0
Indicate Water Bearing Zones (Use a 2nd sheet if needed)		

REMARKS:
MW-3D BENTONITE SEAL FROM 23.0 TO 41.0 FT FEET 6 INCH PVC GROUTED FROM 0.0 TO 24.0 FEET.

TYPE: ☐ Mud Rotary ☐ Jetted ☐ Bored ☐ Dug ☐ Air Rotary ☐ Driven ☐ Cable tool ☑ Other AUGER

7. PERMIT NUMBER:

8. USE:
☐ Residential ☐ Public Supply ☐ Process
☐ Irrigation ☐ Air Conditioning ☐ Emergency
☐ Test Well ☑ Monitor Well ☐ Replacement

9. WELL DEPTH (completed) Date Started: 12/11/07
49.0 ft Date Completed: 12/13/07

10. CASING: ☑ Threaded ☐ Welded
Diam 2 INCH
Type ☑ PVC ☐ ~~Galvanized~~ ☐ Steel ☐ Other
2.0 in to 44.0 ft depth
6.0 in to 24.0 ft depth
Height Above ☐ Below ☐ ~~Surface 0.0 ft~~
Weight ____ lb./ft
Drive Shoe? ☐ Yes ☐ No

11. SCREEN:
Type: SCH 40 PVC Diam. 2 INCH
Slot/Gauge. .010 Length 5.0 FEET
Set Between 44.0 ft. and 49.0 ft. **NOTE: MULTIPLE SCREENS**
____ ft. and ____ ft. **USE SECOND SHEET**
Sieve Analysis ☐ Yes (please enclose) ☑ No

12. STATIC WATER LEVEL 14.0 ft. below land surface after 24 hours

13. PUMPING LEVEL Below Land Surface.
____ ft after ____ hrs Pumping ____ G.P.M
Pumping Test ☐ Yes (please enclose) ☐ No
Yield:

14. WATER QUALITY
Chemical Analysis ☐ Yes ☐ No Bacterial Analysis ☐ Yes ☐ No
Please enclose lab results

15. ARTIFICIAL FILTER (filter pack) ☑ Yes ☐ No
Installed from 41.0 ft to 49.0 ft
Effective size 1.43 Uniformity Coefficient 1.30

16. WELL GROUTED? ☑ Yes ☐ No
☑ Neat Cement ☐ Bentonite ☐ Bentonite/Cement ☐ Other
Depth: From 0.0 ft. to 23.0 ft

17. NEAREST SOURCE OF POSSIBLE CONTAMINATION: ____ ft ____ direction
Type
Well Disinfected ☐ Yes ☐ No Type. ____ Amount. ____

18. PUMP: Date installed: ____ Not installed ☐
Mfr. Name: ____ Model No.: ____
H P ____ Volts ____ Length of drop pipe ____ ft Capacity ____ gpm
TYPE ☐ Submersible ☐ Jet (shallow) ☐ Turbine
☐ Jet (deep) ☐ Reciprocating ☐ Centrifugal

19. WELL DRILLER: MIKE McCONAHEY **CERT. NO.:** 01276
Address. (Print) 176 COMMERCE BLVD
STATESVILLE, NC 28625
Level. [✓ A] B C D (circle one)
Telephone No.: 704-872-7686 Fax No: 704-872-0248

20. WATER WELL DRILLER'S CERTIFICATION: This well was drilled under my direction and this report is true to the best of my knowledge and belief

Signed [illegible] Well Driller Date. 01/16/08

If D Level Driller, provide supervising driller's name

DHEC 1903 (07/2003)

COPY 1 MAIL TO: S.C. DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL (ADDRESS ABOVE)

Hart & Hickman
ENVIRONMENTAL CONSULTANTS

2923 South Tryon Street-Suite 100
Charlotte, North Carolina 28203
704-586-0007(p) 704-586-0373(f)

8601 Six Forks Road-Suite 400
Raleigh, North Carolina 27615
919-847-4241(p) 919-847-4261(f)

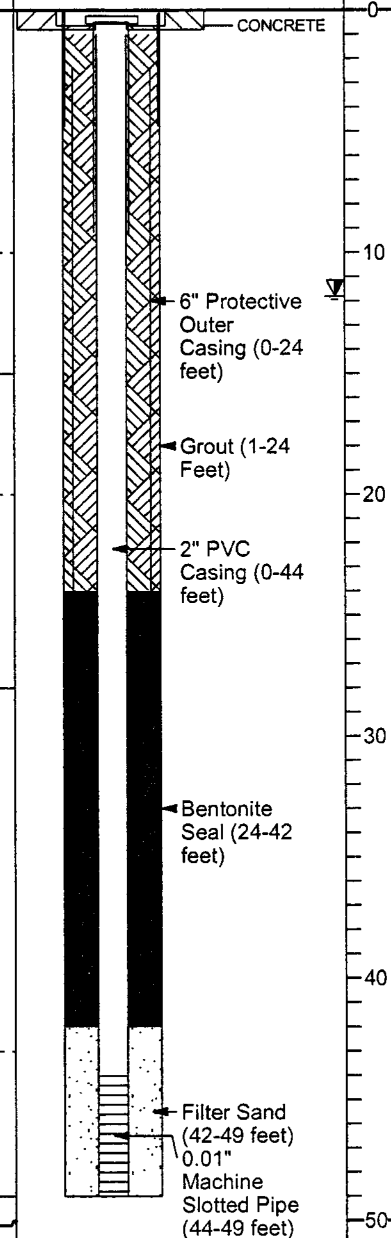
BORING NUMBER : MW-9D

PROJECT: Delavan Spray Technologies
JOB NUMBER: GDR-006
LOCATION: Bamberg, South Carolina

RECOVERY (%)	BLOW COUNT	OVA (ppm) BKG.	OVA (ppm) SAMP.
98		0.6	0.9
98		0.7	0.8
98		0.8	1
98		0.5	2
98		0.5	1.5
25		0.8	1.5
99	30-27-33-17 (60)	0.5	2
98	17-14-16-18 (30)	0.8	1.5
98	32-50		
98	21-29-29-21 (58)		

DEPTH (ft)	MATERIAL DESCRIPTION
0	(SW) Dry, Tan, Fine SAND
10	(SW) Damp, Tan, Medium SAND, Some Quartz Grains and Grey/Red Mottled Silty Clay
	(CL-ML) Wet, Light Grey/ Dark Red, Mottled Silty CLAY, Some Tan Fine Sandy Clay
20	(CL-ML) Wet, Light Grey/ Dark Red, Mottled Silty CLAY
30	Wet, Stiff to Hard, Tan/Yellow, LIMESTONE, Coarse Shell Fragments (Calcareous)
40	Wet, Very Stiff to Hard, White, LIMESTONE, Fossiliferous, Cemented Shell Fragments (Calcareous)
50	(SW) Wet, Hard, White, Fine SAND
	Bottom of borehole at 50.0 feet.

WELL DIAGRAM



DRILLING CONTRACTOR: GEOLOGIC EXPLORATION
DRILL RIG/ METHOD: DPT/HSA/Mud Rotary
SAMPLING METHOD: DPT Sampler/ Split-Spoon
LOGGED BY JM
DRAWN BY:

BORING STARTED 12/12/07
BORING COMPLETED: 12/14/07
TOTAL DEPTH: 50
SURFACE ELEV: 96.86 ft
DEPTH TO WATER:

Remarks:
DPT to 26 feet on 12/12/07. Boring completed to 50 feet with HSA rig on 12/14/07 using HSA and mud rotary techniques.

D H E C
PROMOTE PROTECT PROSPER

Water Well Record
Bureau of Water
2600 Bull Street, Columbia, SC 29201-1708; (803) 898-4300

1. WELL OWNER INFORMATION:
Name DELAVAN SPRAY TECHNOLOGIES
(last) (first)
Address. 4334 MAIN HWY
City BAMBERG State SC Zip 29003
Telephone. Work: Home

2. LOCATION OF WELL: SC **COUNTY:** BAMBERG
Name (GOODRICH) DELAVAN SPRAY TECHNOLOGIES
Street Address: HIGHWAY 301 SOUTH
City BAMBERG Zip.
Latitude. Longitude:

3. PUBLIC SYSTEM NAME: **PUBLIC SYSTEM NUMBER:**

4. ABANDONMENT: ☐ Yes ☑ No
Grouted Depth from ____ ft. to ____ ft

Formation Description	*Thickness of Stratum	Depth to Bottom of Stratum
WEEDS/TOPSOIL	1.0	1.0
BLACK/TAN/ORANGE SILTY SAND	11.0	12.0
ORANGE CLAYEY SILTY SAND	8.0	20.0
RED/PURPLE SANDY SILTY CLAY	5.0	25 0
TAN/WHITE/ORANGE SILTY SAND	6.0	31.0
WHITE/ORANGE CEMENTED		
SAND/SHELL LIMESTONE	11.0	42.0
WHITE CEMENTED SAND/SHELL	7.0	49.0
WHITE SAND	1.0	50.0
Indicate Water Bearing Zones (Use a 2nd sheet if needed)		

REMARKS:
MW-9D BENTONITE SEAL FROM 23 0 TO 41.5 FT. FEET. 6 INCH PVC GROUTED FROM 0.0 TO 24.0 FEET

TYPE: ☐ Mud Rotary ☐ Jetted ☐ Bored ☐ Dug ☐ Air Rotary ☐ Driven ☐ Cable tool ☑ Other AUGER

7. PERMIT NUMBER:

8. USE:
☐ Residential ☐ Public Supply ☐ Process
☐ Irrigation ☐ Air Conditioning ☐ Emergency
☐ Test Well ☑ Monitor Well ☐ Replacement

9. WELL DEPTH (completed) Date Started: 12/13/07
49.0 ft Date Completed 12/14/07

10. CASING: ☑ Threaded ☐ Welded
Diam. 2 INCH
Type: ☑ PVC ☐ Galvanized ☐ Steel ☐ Other
2.0 in. to 44.0 ft depth
6.0 in to 24.0 ft. depth
Height. Above ☐ Below ☐
Surface 0.0 ft.
Weight ____ lb./ft.
Drive Shoe? ☐ Yes ☐ No

11. SCREEN:
Type SCH 40 PVC Diam 2 INCH
Slot/Gauge .010 Length: 5.0 FEET
Set Between 44.0 ft. and 49.0 ft. **NOTE: MULTIPLE SCREENS**
____ ft. and ____ ft. **USE SECOND SHEET**
Sieve Analysis ☐ Yes (please enclose) ☑ No

12. STATIC WATER LEVEL 14 0 ft. below land surface after 24 hours

13. PUMPING LEVEL Below Land Surface
____ ft. after ____ hrs Pumping ____ GPM
Pumping Test: ☐ Yes (please enclose) ☐ No
Yield:

14. WATER QUALITY
Chemical Analysis ☐ Yes ☐ No Bacterial Analysis ☐ Yes ☐ No
Please enclose lab results.

15. ARTIFICIAL FILTER (filter pack) ☑ Yes ☐ No
Installed from 41.5 ft to 49.0 ft.
Effective size 1.43 Uniformity Coefficient 1.30

16. WELL GROUTED? ☑ Yes ☐ No
☑ Neat Cement ☐ Bentonite ☐ Bentonite/Cement ☐ Other
Depth: From 0.0 ft. to 23.0 ft

17. NEAREST SOURCE OF POSSIBLE CONTAMINATION: ____ ft ____ direction
Type
Well Disinfected ☐ Yes ☐ No Type ____ Amount:

18. PUMP: Date installed ____ Not installed ☐
Mfr. Name. ____ Model No .
H.P. ____ Volts ____ Length of drop pipe ____ ft. Capacity ____ gpm
TYPE: ☐ Submersible ☐ Jet (shallow) ☐ Turbine ☐ Jet (deep) ☐ Reciprocating ☐ Centrifugal

19. WELL DRILLER: MIKE McCONAHEY **CERT. NO.:** 01276
Address: (Print) 176 COMMERCE BLVD
STATESVILLE, NC 28625
Level A ☑ B ☐ C ☐ D ☐ (circle one)
Telephone No.: 704-872-7686 Fax No.: 704-872-0248

20. WATER WELL DRILLER'S CERTIFICATION: This well was drilled under my direction and this report is true to the best of my knowledge and belief.

Signed: [signature] Date. 01/16/08
Well Driller

If D Level Driller, provide supervising driller's name

COPY 1 MAIL TO: S.C. DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL (ADDRESS ABOVE)

Sheet 1 of 1

Hart & Hickman
ENVIRONMENTAL CONSULTANTS

2923 South Tryon Street-Suite 100
Charlotte, North Carolina 28203
704-586-0007(p) 704-586-0373(f)

8601 Six Forks Road-Suite 400
Raleigh, North Carolina 27615
919-847-4241(p) 919-847-4261(f)

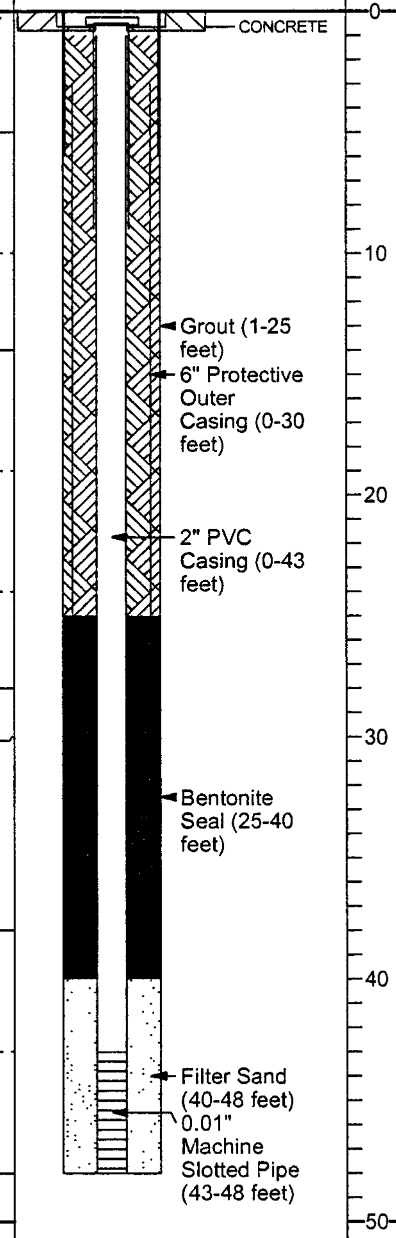
BORING NUMBER : MW-10D

PROJECT: Delavan Spray Technologies
JOB NUMBER: GDR-006
LOCATION: Bamberg, South Carolina

RECOVERY (%)	BLOW COUNT	OVA (ppm) BKG.	OVA (ppm) SAMP.
98		1.5	4
98		0.9	6.1
98		1.1	250
98		1.1	162
98		0.9	78.3
98		0.8	35.4
98		2.3	9
98	3-2-2-4 (4)	0.5	2
98	42-22-29-50 (51)	0.9	1.5
98	12-12-22-35 (34)	0.8	1.2
98	6-7-9-20 (16)		

MATERIAL DESCRIPTION
(CL) Dry, Stiff, Tan/ Light Grey/ Dark Red, Mottled Fine Sandy CLAY
(CL-ML) Damp, Very Stiff, Dark Grey, Silty CLAY
(CL-ML) Wet, Very Stiff, Dark Grey/ Dark Red, Mottled Silty CLAY
(SW) Wet, Soft to Medium Stiff, Tan/ White, Medium SAND
(SW) Wet, Soft to Medium Stiff, White, Medium SAND
(SW) Wet, Soft to Medium Stiff, White Medium SAND, Some Silty CLAY from 26-27 feet
(CL-ML) Wet, Soft to Medium Stiff, Light Grey/ Tan, Mottled Silty CLAY
(SC) Wet, Soft, Dark Tan, Clayey Fine SAND, Some LIMESTONE, Fragments with Staining (Red to Black)
Wet, Very Stiff to Hard, Tan/ White, LIMESTONE, Coarse Shell Fragments (Calcareous)
Wet, Stiff to Hard, White, LIMESTONE, Fossiliferous, Cemented Shell Fragments (Calcareous)
(SW) Wet, Stiff to Very Stiff, White, Fine SAND
Bottom of borehole at 50.0 feet.

WELL DIAGRAM



DRILLING CONTRACTOR: GEOLOGIC EXPLORATION
DRILL RIG/ METHOD: DPT/HSA/Mud Rotary
SAMPLING METHOD: DPT Sampler/ Split-Spoon
LOGGED BY JM
DRAWN BY:

BORING STARTED 12/12/07
BORING COMPLETED: 12/14/07
TOTAL DEPTH: 50
SURFACE ELEV: 94.88 ft
DEPTH TO WATER:

Remarks:

DPT to 30 feet on 12/12/07. Boring completed to 50 feet with HSA rig on 12/14/07 using HSA and mud rotary techniques.

D H E C
PROMOTE PROTECT PROSPER

Water Well Record
Bureau of Water
2600 Bull Street, Columbia, SC 29201-1708; (803) 898-4300

1. WELL OWNER INFORMATION:
Name. DELAVAN SPRAY TECHNOLOGIES
(last) (first)
Address 4334 MAIN HWY
City BAMBERG State SC Zip 29003
Telephone. Work Home.

2. LOCATION OF WELL: SC **COUNTY:** BAMBERG
Name (GOODRICH) DELAVAN SPRAY TECHNOLOGIES
Street Address HIGHWAY 301 SOUTH
City BAMBERG Zip.
Latitude Longitude.

3. PUBLIC SYSTEM NAME: **PUBLIC SYSTEM NUMBER:**

4. ABANDONMENT: ☐ Yes ☑ No

Grouted Depth. from ft. to ft.

Formation Description	*Thickness of Stratum	Depth to Bottom of Stratum
VEEDS/TOPSOIL	1.0	1.0
TAN/ORANGE SILTY SAND	7.0	8.0
LACK/TAN/ORANGE SILTY SAND	4.0	12.0
ORANGE CLAYEY SILTY SAND	16.0	28.0
)RANGE/RED SANDY SILTY CLAY	3.0	31.0
3ROWN/ORANGE SILTY SAND	3.0	34.0
TAN/ORANGE CEMENTED SAND/SHELL	8.0	42.0
VHITE CEMENTED SAND/SHELL		
.IMESTONE	6.0	48.0
VHITE SAND	2.0	50.0
Indicate Water Bearing Zones		
(Use a 2nd sheet if needed)		

. REMARKS:
MW-10D BENTONITE SEAL FROM 28.0 TO 41.0 FT. FEET 6 INCH PVC GROUTED FROM 0.0 TO 30.0 FEET.

. TYPE: ☐ Mud Rotary ☐ Jetted ☐ Bored
☐ Dug ☐ Air Rotary ☐ Driven
☐ Cable tool ☑ Other AUGER

7. PERMIT NUMBER:

8. USE:
☐ Residential ☐ Public Supply ☐ Process
☐ Irrigation ☐ Air Conditioning ☐ Emergency
☐ Test Well ☑ Monitor Well ☐ Replacement

9. WELL DEPTH (completed) Date Started: 12/13/07
48.0 ft Date Completed: 12/17/07

10. CASING: ☑ Threaded ☐ Welded
Diam. 2 INCH
Type: ☑ PVC ☐ Galvanized
☐ Steel ☐ Other
2.0 in to 43.0 ft depth
6.0 in to 30.0 ft depth

Height: Above ☐ Below ☐
Surface 0.0 ft
Weight lb./ft
Drive Shoe? ☐ Yes ☐ No

11. SCREEN:
Type: SCH 40 PVC Diam.: 2 INCH
Slot/Gauge .010 Length: 5.0 FEET
Set Between: 43.0 ft. and 48.0 ft. **NOTE: MULTIPLE SCREENS**
ft. and ft. **USE SECOND SHEET**
Sieve Analysis ☐ Yes (please enclose) ☑ No

12. STATIC WATER LEVEL 14.0 ft. below land surface after 24 hours

13. PUMPING LEVEL Below Land Surface
ft. after hrs. Pumping GPM
Pumping Test. ☐ Yes (please enclose) ☐ No
Yield:

14. WATER QUALITY
Chemical Analysis ☐ Yes ☐ No Bacterial Analysis ☐ Yes ☐ No
Please enclose lab results

15. ARTIFICIAL FILTER (filter pack) ☑ Yes ☐ No
Installed from 41.0 ft. to 48.0 ft
Effective size 1.43 Uniformity Coefficient 1.30

16. WELL GROUTED? ☑ Yes ☐ No
☑ Neat Cement ☐ Bentonite ☐ Bentonite/Cement ☐ Other
Depth From 0.0 ft. to 28.0 ft

17. NEAREST SOURCE OF POSSIBLE CONTAMINATION: ft. direction
Type
Well Disinfected ☐ Yes ☐ No Type: Amount.

18. PUMP: Date installed Not installed ☐
Mfr. Name Model No.
H.P. Volts Length of drop pipe ft. Capacity gpm
TYPE ☐ Submersible ☐ Jet (shallow) ☐ Turbine
☐ Jet (deep) ☐ Reciprocating ☐ Centrifugal

19. WELL DRILLER: MIKE McCONAHEY **CERT. NO.:** 01276
Address: (Print) 176 COMMERCE BLVD Level: A B C D (circle one) [✓ A]
STATESVILLE, NC 28625
Telephone No.: 704-872-7686 Fax No. 704-872-0248

20. WATER WELL DRILLER'S CERTIFICATION: This well was drilled under my direction and this report is true to the best of my knowledge and belief

Signed [illegible] Date: 01/16/08
Well Driller

If D Level Driller, provide supervising driller's name:

EC 1903 (07/2003)

COPY 1 MAIL TO: S.C. DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL (ADDRESS ABOVE)

Appendix C

Laboratory Analytical Data – Investigation Derived Waste

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

RECEIVED
JAN 0 2 2008
BY:

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

December 26, 2007 5:18:13PM

Client:	Hart & Hickman (2162) 2923 South Tyron Street, Suite 100 Charlotte, NC 28203-5449	Work Order:	NQL1927
		Project Name:	Goodrich - Delavan
		Project Nbr:	GDR-006
Attn:	Shannon Cottrill	P/O Nbr:	
		Date Received:	12/18/07

SAMPLE IDENTIFICATION	LAB NUMBER	COLLECTION DATE AND TIME
Drum Comp	NQL1927-01	12/17/07 12:00
Drum Comp	NQL1927-02	12/17/07 14:00

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

South Carolina Certification Number: WW & S/HW cert - 84009001 DW cert - 84009002

The Chain(s) of Custody, 2 pages, are included and are an integral part of this report.

These results relate only to the items tested. This report shall not be reproduced except in full and with permission of the laboratory.

All solids results are reported in wet weight unless specifically stated.
Estimated uncertainity is available upon request.
This report has been electronically signed.
Report Approved By:

JAMitchell

Johnny A. Mitchell

Lab Director

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

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

Client	Hart & Hickman (2162)	Work Order:	NQL1927
	2923 South Tyron Street, Suite 100	Project Name:	Goodrich - Delavan
	Charlotte, NC 28203-5449	Project Number:	GDR-006
ttn	Shannon Cottrill	Received:	12/18/07 07:50

ANALYTICAL REPORT

nalyte	Result	Flag	Units	MRL	Dilution Factor	Analysis Date/Time	Method	Batch
mple ID: NQL1927-01 (Drum Comp - Soil) Sampled: 12/17/07 12:00								
TCLP Metals by 6000/7000 Series Methods								
senic	ND		mg/L	0.100	1	12/20/07 13:45	V846 1311/601(	7123614
rium	**0.172**		mg/L	0.100	1	12/20/07 13:45	V846 1311/601(	7123614
Cadmium	ND		mg/L	0.0100	1	12/20/07 13:45	V846 1311/601(	7123614
romium	ND		mg/L	0.0500	1	12/20/07 13:45	V846 1311/601(	7123614
ad	ND		mg/L	0.0500	1	12/20/07 13:45	V846 1311/601(	7123614
elenium	ND		mg/L	0.100	1	12/20/07 13:45	V846 1311/601(	7123614
Silver	ND		mg/L	0.0500	1	12/20/07 13:45	V846 1311/601(	7123614
ercury	ND		mg/L	0.0100	1	12/20/07 14:18	V846 1311/747(	7123558
CLP Volatile Organic Compounds by EPA Method 1311/8260B								
nzene	ND		mg/L	0.0100	10	12/21/07 03:52	V846 1311/826(	7123912
Butanone	ND		mg/L	0.250	10	12/21/07 03:52	V846 1311/826(	7123912
rbon Tetrachloride	ND		mg/L	0.0100	10	12/21/07 03:52	V846 1311/826(	7123912
Chlorobenzene	ND		mg/L	0.0100	10	12/21/07 03:52	V846 1311/826(	7123912
loroform	ND		mg/L	0.0100	10	12/21/07 03:52	V846 1311/826(	7123912
2-Dichloroethane	ND		mg/L	0.0100	10	12/21/07 03:52	V846 1311/826(	7123912
1,1-Dichloroethene	ND		mg/L	0.0100	10	12/21/07 03:52	V846 1311/826(	7123912
trachloroethene	**0.0686**		mg/L	0.0100	10	12/21/07 03:52	V846 1311/826(	7123912
ichloroethene	ND	L	mg/L	0.0100	10	12/21/07 03:52	V846 1311/826(	7123912
inyl chloride	ND		mg/L	0.0100	10	12/21/07 03:52	V846 1311/826(	7123912
Surr: 1,2-Dichloroethane-d4 (60-140%)	*99 %*					*12/21/07 03:52*	*V846 1311/826*	*7123912*
rr: Dibromofluoromethane (75-124%)	*100 %*					*12/21/07 03:52*	*V846 1311/826*	*7123912*
rr: Toluene-d8 (78-121%)	*93 %*					*12/21/07 03:52*	*V846 1311/826*	*7123912*
urr: 4-Bromofluorobenzene (79-124%)	*95 %*					*12/21/07 03:52*	*V846 1311/826*	*7123912*
mple ID: NQL1927-02 (Drum Comp - Ground Water) Sampled: 12/17/07 14:00								
CLP Metals by 6000/7000 Series Methods								
Arsenic	ND		mg/L	0.100	1	12/20/07 12:39	V846 1311/601(	7123616
arium	ND		mg/L	0.100	1	12/20/07 12:39	V846 1311/601(	7123616
admium	ND		mg/L	0.0100	1	12/20/07 12:39	V846 1311/601(	7123616
hromium	ND		mg/L	0.0500	1	12/20/07 12:39	V846 1311/601(	7123616
Lead	ND		mg/L	0.0500	1	12/20/07 12:39	V846 1311/601(	7123616
lenium	ND		mg/L	0.100	1	12/20/07 12:39	V846 1311/601(	7123616
lver	ND		mg/L	0.0500	1	12/20/07 12:39	V846 1311/601(	7123616
Mercury	ND		mg/L	0.0100	1	12/20/07 14:20	V846 1311/747(	7123558
CLP Volatile Organic Compounds by EPA Method 1311/8260B								
enzene	ND		mg/L	0.0100	10	12/22/07 01:20	V846 1311/826(	7124118
2-Butanone	ND		mg/L	0.250	10	12/22/07 01:20	V846 1311/826(	7124118
arbon Tetrachloride	ND		mg/L	0.0100	10	12/22/07 01:20	V846 1311/826(	7124118
hlorobenzene	ND		mg/L	0.0100	10	12/22/07 01:20	V846 1311/826(	7124118
Chloroform	ND		mg/L	0.0100	10	12/22/07 01:20	V846 1311/826(	7124118
2-Dichloroethane	ND		mg/L	0.0100	10	12/22/07 01:20	V846 1311/826(	7124118
1-Dichloroethene	ND		mg/L	0.0100	10	12/22/07 01:20	V846 1311/826(	7124118
etrachloroethene	**0.0589**		mg/L	0.0100	10	12/22/07 01:20	V846 1311/826(	7124118

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Client	Hart & Hickman (2162)	Work Order:	NQL1927
	2923 South Tyron Street, Suite 100	Project Name:	Goodrich - Delavan
	Charlotte, NC 28203-5449	Project Number:	GDR-006
Attn	Shannon Cottrill	Received:	12/18/07 07:50

ANALYTICAL REPORT

Analyte	Result	Flag	Units	MRL	Dilution Factor	Analysis Date/Time	Method	Batch
ample ID: NQL1927-02 (Drum Comp - Ground Water) - cont. Sampled: 12/17/07 14:00								
TCLP Volatile Organic Compounds by EPA Method 1311/8260B - cont.								
·ichloroethene	ND		mg/L	0.0100	10	12/22/07 01:20	V846 1311/826(	7124118
inyl chloride	ND		mg/L	0.0100	10	12/22/07 01:20	V846 1311/826(	7124118
Surr: 1,2-Dichloroethane-d4 (60-140%)	*102 %*					*12/22/07 01:20*	*V846 1311/826(*	*7124118*
rr: Dibromofluoromethane (75-124%)	*102 %*					*12/22/07 01:20*	*V846 1311/826(*	*7124118*
rr: Toluene-d8 (78-121%)	*92 %*					*12/22/07 01:20*	*V846 1311/826(*	*7124118*
rr: 4-Bromofluorobenzene (79-124%)	*97 %*					*12/22/07 01:20*	*V846 1311/826(*	*7124118*

Client	Hart & Hickman (2162)	Work Order:	NQL1927
	2923 South Tyron Street, Suite 100	Project Name:	Goodrich - Delavan
	Charlotte, NC 28203-5449	Project Number:	GDR-006
Attn	Shannon Cottrill	Received:	12/18/07 07:50

SAMPLE EXTRACTION DATA

arameter	Batch	Lab Number	Wt/Vol Extracted	Extracted Vol	Date	Analyst	Extraction Method
CLP Extraction by EPA 1311							
SW846 1311	7123439	NQL1927-01	25.00	500.00	12/19/07 14:30	JSS	EPA 1311
SW846 1311	7123439	NQL1927-01	25.00	500.00	12/19/07 14:30	JSS	EPA 1311
SW846 1311	7123439	NQL1927-02	1.00	1.00	12/19/07 14:30	JSS	EPA 1311
SW846 1311	7123439	NQL1927-02	1.00	1.00	12/19/07 14:30	JSS	EPA 1311
TCLP Metals by 6000/7000 Series Methods							
SW846 1311/6010B	7123614	NQL1927-01	5.00	50.00	12/20/07 11:00	KKK	EPA 3015
SW846 1311/6010B	7123614	NQL1927-01	5.00	50.00	12/20/07 11:00	KKK	EPA 3015
SW846 1311/6010B	7123614	NQL1927-01	5.00	50.00	12/20/07 11:00	KKK	EPA 3015
SW846 1311/6010B	7123614	NQL1927-01	5.00	50.00	12/20/07 11:00	KKK	EPA 3015
SW846 1311/6010B	7123614	NQL1927-01	5.00	50.00	12/20/07 11:00	KKK	EPA 3015
SW846 1311/6010B	7123614	NQL1927-01	5.00	50.00	12/20/07 11:00	KKK	EPA 3015
SW846 1311/6010B	7123614	NQL1927-01	5.00	50.00	12/20/07 11:00	KKK	EPA 3015
SW846 1311/6010B	7123439	NQL1927-01	25.00	500.00	12/19/07 14:30	JSS	EPA 1311
SW846 1311/6010B	7123439	NQL1927-02	1.00	1.00	12/19/07 14:30	JSS	EPA 1311
SW846 1311/6010B	7123616	NQL1927-02	5.00	50.00	12/20/07 11:30	AMB	EPA 3015
SW846 1311/6010B	7123616	NQL1927-02	5.00	50.00	12/20/07 11:30	AMB	EPA 3015
SW846 1311/6010B	7123616	NQL1927-02	5.00	50.00	12/20/07 11:30	AMB	EPA 3015
SW846 1311/6010B	7123616	NQL1927-02	5.00	50.00	12/20/07 11:30	AMB	EPA 3015
SW846 1311/6010B	7123616	NQL1927-02	5.00	50.00	12/20/07 11:30	AMB	EPA 3015
SW846 1311/6010B	7123616	NQL1927-02	5.00	50.00	12/20/07 11:30	AMB	EPA 3015
SW846 1311/6010B	7123616	NQL1927-02	5.00	50.00	12/20/07 11:30	AMB	EPA 3015
SW846 1311/7470A	7123558	NQL1927-01	3.00	30.00	12/19/07 16:51	LTB	EPA 7470
SW846 1311/7470A	7123558	NQL1927-02	3.00	30.00	12/19/07 16:51	LTB	EPA 7470

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Client	Hart & Hickman (2162) 2923 South Tyron Street, Suite 100 Charlotte, NC 28203-5449	Work Order:	NQL1927
		Project Name:	Goodrich - Delavan
		Project Number:	GDR-006
ttn	Shannon Cottrill	Received:	12/18/07 07:50

PROJECT QUALITY CONTROL DATA
Blank

alyte	Blank Value	Q	Units	Q.C. Batch	Lab Number	Analyzed Date/Time
TCLP Metals by 6000/7000 Series Methods						
23558-BLK1						
ercury	<0.00500		mg/L	7123558	7123558-BLK1	12/20/07 13:36
23614-BLK1						
'senic	<0.0500		mg/L	7123614	7123614-BLK1	12/20/07 11:34
arium	<0.0500		mg/L	7123614	7123614-BLK1	12/20/07 11:34
Cadmium	<0.00800		mg/L	7123614	7123614-BLK1	12/20/07 11:34
ıromium	<0.0200		mg/L	7123614	7123614-BLK1	12/20/07 11:34
:ad	<0.0300		mg/L	7123614	7123614-BLK1	12/20/07 11:34
Selenium	<0.0500		mg/L	7123614	7123614-BLK1	12/20/07 11:34
lver	<0.0200		mg/L	7123614	7123614-BLK1	12/20/07 11:34
7123616-BLK1						
Arsenic	<0.0500		mg/L	7123616	7123616-BLK1	12/20/07 12:13
ɜrium	<0.0500		mg/L	7123616	7123616-BLK1	12/20/07 12:13
ɜdmium	<0.00800		mg/L	7123616	7123616-BLK1	12/20/07 12:13
Chromium	<0.0200		mg/L	7123616	7123616-BLK1	12/20/07 12:13
:ad	<0.0300		mg/L	7123616	7123616-BLK1	12/20/07 12:13
:lenium	<0.0500		mg/L	7123616	7123616-BLK1	12/20/07 12:13
Silver	<0.0200		mg/L	7123616	7123616-BLK1	12/20/07 12:13
CLP Volatile Organic Compounds by EPA Method 1311/8260B						
7123912-BLK1						
Benzene	<0.000270		mg/L	7123912	7123912-BLK1	12/20/07 23:05
Butanone	<0.00240		mg/L	7123912	7123912-BLK1	12/20/07 23:05
arbon Tetrachloride	<0.000350		mg/L	7123912	7123912-BLK1	12/20/07 23:05
Chlorobenzene	<0.000180		mg/L	7123912	7123912-BLK1	12/20/07 23:05
hloroform	<0.000280		mg/L	7123912	7123912-BLK1	12/20/07 23:05
2-Dichloroethane	<0.000370		mg/L	7123912	7123912-BLK1	12/20/07 23:05
1,1-Dichloroethene	<0.000340		mg/L	7123912	7123912-BLK1	12/20/07 23:05
:trachloroethene	<0.000230		mg/L	7123912	7123912-BLK1	12/20/07 23:05
'ichloroethene	<0.000230		mg/L	7123912	7123912-BLK1	12/20/07 23:05
inyl chloride	<0.000290		mg/L	7123912	7123912-BLK1	12/20/07 23:05
Surrogate: 1,2-Dichloroethane-d4	102%			7123912	7123912-BLK1	12/20/07 23:05
rrogate: Dibromofluoromethane	100%			7123912	7123912-BLK1	12/20/07 23:05
rrogate: Toluene-d8	91%			7123912	7123912-BLK1	12/20/07 23:05
Surrogate: 4-Bromofluorobenzene	97%			7123912	7123912-BLK1	12/20/07 23:05
24118-BLK1						
Benzene	<0.000270		mg/L	7124118	7124118-BLK1	12/22/07 00:56
-Butanone	<0.00240		mg/L	7124118	7124118-BLK1	12/22/07 00:56
arbon Tetrachloride	<0.000350		mg/L	7124118	7124118-BLK1	12/22/07 00:56
hlorobenzene	<0.000180		mg/L	7124118	7124118-BLK1	12/22/07 00:56

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THE LEADER IN ENVIRONMENTAL TESTING

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

Client	Hart & Hickman (2162) 2923 South Tyron Street, Suite 100 Charlotte, NC 28203-5449	Work Order:	NQL1927
		Project Name:	Goodrich - Delavan
		Project Number:	GDR-006
.\ttn	Shannon Cottrill	Received:	12/18/07 07:50

PROJECT QUALITY CONTROL DATA
Blank - Cont.

alyte	Blank Value	Q	Units	Q.C. Batch	Lab Number	Analyzed Date/Time
TCLP Volatile Organic Compounds by EPA Method 1311/8260B						
24118-BLK1						
ıloroform	<0 000280		mg/L	7124118	7124118-BLK1	12/22/07 00:56
1,2-Dichloroethane	<0.000370		mg/L	7124118	7124118-BLK1	12/22/07 00:56
1-Dichloroethene	<0.000340		mg/L	7124118	7124118-BLK1	12/22/07 00:56
ɜtrachloroethene	<0.000230		mg/L	7124118	7124118-BLK1	12/22/07 00:56
richloroethene	<0.000230		mg/L	7124118	7124118-BLK1	12/22/07 00:56
Vinyl chloride	<0 000290		mg/L	7124118	7124118-BLK1	12/22/07 00:56
rrogate: 1,2-Dichloroethane-d4	102%			7124118	7124118-BLK1	12/22/07 00:56
rrogate: Dibromofluoromethane	103%			7124118	7124118-BLK1	12/22/07 00:56
Surrogate: Toluene-d8	93%			7124118	7124118-BLK1	12/22/07 00:56
rrogate: 4-Bromofluorobenzene	96%			7124118	7124118-BLK1	12/22/07 00:56

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

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

Client	Hart & Hickman (2162) 2923 South Tyron Street, Suite 100 Charlotte, NC 28203-5449	Work Order:	NQL1927
		Project Name:	Goodrich - Delavan
		Project Number:	GDR-006
Attn	Shannon Cottrill	Received:	12/18/07 07:50

PROJECT QUALITY CONTROL DATA
LCS

ıalyte	Known Val.	Analyzed Val	Q	Units	% Rec.	Target Range	Batch	Analyzed Date/Time
TCLP Metals by 6000/7000 Series Methods								
123558-BS1								
lercury	0.0200	0.0194		mg/L	97%	78 - 124	7123558	12/20/07 13:40
¯123614-BS1								
ɪrsenic	10.0	9.22		mg/L	92%	80 - 120	7123614	12/20/07 11.39
·arium	100	103		mg/L	103%	80 - 120	7123614	12/20/07 11:39
Cadmium	10.0	9.81		mg/L	98%	80 - 120	7123614	12/20/07 11:39
'hromium	50.0	51.2		mg/L	102%	80 - 120	7123614	12/20/07 11:39
ead	50 0	48.6		mg/L	97%	80 - 120	7123614	12/20/07 11:39
Selenium	10.0	9.52		mg/L	95%	80 - 120	7123614	12/20/07 11:39
ilver	10.0	9.76		mg/L	98%	80 - 120	7123614	12/20/07 11:39
, 123616-BS1								
Arsenic	10.0	10.2		mg/L	102%	80 - 120	7123616	12/20/07 12:27
arium	100	105		mg/L	105%	80 - 120	7123616	12/20/07 12:27
admium	10.0	10.3		mg/L	103%	80 - 120	7123616	12/20/07 12:27
Chromium	50.0	52.9		mg/L	106%	80 - 120	7123616	12/20/07 12:27
.ead	50.0	51.5		mg/L	103%	80 - 120	7123616	12/20/07 12:27
elenium	10.0	11.2		mg/L	112%	80 - 120	7123616	12/20/07 12:27
Silver	10.0	10.1		mg/L	101%	80 - 120	7123616	12/20/07 12:27
CLP Volatile Organic Compounds by EPA Method 1311/8260B								
, 123912-BS1								
Benzene	50.0	42.2		ug/L	84%	76 - 129	7123912	12/20/07 20:38
-Butanone	250	216		ug/L	86%	63 - 138	7123912	12/20/07 20:38
:arbon Tetrachloride	50.0	45.7		ug/L	91%	56 - 150	7123912	12/20/07 20:38
Chlorobenzene	50.0	44.4		ug/L	89%	88 - 118	7123912	12/20/07 20:38
:hloroform	50.0	44.9		ug/L	90%	78 - 138	7123912	12/20/07 20:38
,2-Dichloroethane	50.0	44.2		ug/L	88%	70 - 135	7123912	12/20/07 20:38
1,1-Dichloroethene	50.0	40.8		ug/L	82%	77 - 137	7123912	12/20/07 20:38
⁻etrachloroethene	50.0	44.1		ug/L	88%	83 - 126	7123912	12/20/07 20:38
'richloroethene	50.0	75.5	L1	ug/L	151%	78 - 137	7123912	12/20/07 20:38
/inyl chloride	50.0	36.5		ug/L	73%	62 - 124	7123912	12/20/07 20:38
Surrogate: 1,2-Dichloroethane-d4	50.0	49.4			99%	60 - 140	7123912	12/20/07 20:38
;urrogate: Dibromofluoromethane	50.0	49.4			99%	75 - 124	7123912	12/20/07 20:38
;urrogate: Toluene-d8	50.0	45.8			92%	78 - 121	7123912	12/20/07 20:38
Surrogate: 4-Bromofluorobenzene	50.0	48 9			98%	79 - 124	7123912	12/20/07 20:38
124118-BS1								
3enzene	50.0	42.5		ug/L	85%	76 - 129	7124118	12/21/07 22:55
2-Butanone	250	205		ug/L	82%	63 - 138	7124118	12/21/07 22:55
:arbon Tetrachloride	50.0	47.0		ug/L	94%	56 - 150	7124118	12/21/07 22:55
:hlorobenzene	50.0	43.4	L2	ug/L	87%	88 - 118	7124118	12/21/07 22:55

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

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

Client	Hart & Hickman (2162) 2923 South Tyron Street, Suite 100 Charlotte, NC 28203-5449	Work Order:	NQL1927
		Project Name:	Goodrich - Delavan
		Project Number:	GDR-006
.ttn	Shannon Cottrill	Received:	12/18/07 07:50

PROJECT QUALITY CONTROL DATA
LCS - Cont.

alyte	Known Val.	Analyzed Val	Q	Units	% Rec.	Target Range	Batch	Analyzed Date/Time
TCLP Volatile Organic Compounds by EPA Method 1311/8260B								
24118-BS1								
lloroform	50.0	44.4		ug/L	89%	78 - 138	7124118	12/21/07 22:55
1,2-Dichloroethane	50.0	43.9		ug/L	88%	70 - 135	7124118	12/21/07 22:55
1-Dichloroethene	50.0	44.7		ug/L	89%	77 - 137	7124118	12/21/07 22:55
trachloroethene	50.0	46.9		ug/L	94%	83 - 126	7124118	12/21/07 22:55
richloroethene	50.0	48.2		ug/L	96%	78 - 137	7124118	12/21/07 22:55
Vinyl chloride	50.0	34.4		ug/L	69%	62 - 124	7124118	12/21/07 22:55
irrogate: 1,2-Dichloroethane-d4	50.0	50.0			100%	60 - 140	7124118	12/21/07 22:55
irrogate: Dibromofluoromethane	50.0	50.9			102%	75 - 124	7124118	12/21/07 22:55
Surrogate: Toluene-d8	50.0	46.9			94%	78 - 121	7124118	12/21/07 22:55
irrogate: 4-Bromofluorobenzene	50.0	48 1			96%	79 - 124	7124118	12/21/07 22:55

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
2960 Foster Creighton Road Nashville, TN 37204 * 800-765-0980 * Fax 615-726-3404

Client	Hart & Hickman (2162)	Work Order:	NQL1927
	2923 South Tyron Street, Suite 100	Project Name:	Goodrich - Delavan
	Charlotte, NC 28203-5449	Project Number:	GDR-006
Attn	Shannon Cottrill	Received:	12/18/07 07:50

PROJECT QUALITY CONTROL DATA
LCS Dup

Analyte	Orig. Val.	Duplicate	Q	Units	Spike Conc	% Rec.	Target Range	RPD	Limit	Batch	Sample Duplicated	Analyzed Date/Time
TCLP Metals by 6000/7000 Series Methods												
123558-BSD1												
Mercury		0.0193		mg/L	0.0200	97%	78 - 124	0.5	22	7123558		12/20/07 13:42
123614-BSD1												
Arsenic		9.27		mg/L	10.0	93%	80 - 120	0.5	20	7123614		12/20/07 11:43
Barium		104		mg/L	100	104%	80 - 120	0.7	20	7123614		12/20/07 11:43
Cadmium		9.87		mg/L	10.0	99%	80 - 120	0.5	20	7123614		12/20/07 11:43
Chromium		51.6		mg/L	50.0	103%	80 - 120	0.7	20	7123614		12/20/07 11:43
Lead		49.0		mg/L	50.0	98%	80 - 120	0.8	20	7123614		12/20/07 11:43
Selenium		9.55		mg/L	10.0	95%	80 - 120	0.3	20	7123614		12/20/07 11:43
Silver		9.83		mg/L	10.0	98%	80 - 120	0.8	20	7123614		12/20/07 11:43
7123616-BSD1												
Arsenic		10.2		mg/L	10.0	102%	80 - 120	0.5	20	7123616		12/20/07 12:32
Barium		104		mg/L	100	104%	80 - 120	1	20	7123616		12/20/07 12:32
Cadmium		10.3		mg/L	10.0	103%	80 - 120	0.4	20	7123616		12/20/07 12:32
Chromium		53.2		mg/L	50.0	106%	80 - 120	0.5	20	7123616		12/20/07 12:32
Lead		51.5		mg/L	50.0	103%	80 - 120	0.02	20	7123616		12/20/07 12:32
Selenium		11.1		mg/L	10.0	111%	80 - 120	0.8	20	7123616		12/20/07 12:32
Silver		9.95		mg/L	10.0	100%	80 - 120	1	20	7123616		12/20/07 12:32
TCLP Volatile Organic Compounds by EPA Method 1311/8260B												
7123912-BSD1												
Benzene		43.8		ug/L	50.0	88%	76 - 129	4	50	7123912		12/20/07 21:02
2-Butanone		238		ug/L	250	95%	63 - 138	10	50	7123912		12/20/07 21:02
Carbon Tetrachloride		47.0		ug/L	50.0	94%	56 - 150	3	50	7123912		12/20/07 21:02
Chlorobenzene		45.7		ug/L	50.0	91%	88 - 118	3	50	7123912		12/20/07 21:02
Chloroform		46.9		ug/L	50.0	94%	78 - 138	4	50	7123912		12/20/07 21:02
1,2-Dichloroethane		46.5		ug/L	50.0	93%	70 - 135	5	50	7123912		12/20/07 21:02
1,1-Dichloroethene		41.8		ug/L	50.0	84%	77 - 137	2	50	7123912		12/20/07 21:02
Tetrachloroethene		44.8		ug/L	50.0	90%	83 - 126	2	50	7123912		12/20/07 21:02
Trichloroethene		71.5	L1	ug/L	50.0	143%	78 - 137	5	50	7123912		12/20/07 21:02
Vinyl chloride		37.7		ug/L	50.0	75%	62 - 124	3	50	7123912		12/20/07 21:02
Surrogate: 1,2-Dichloroethane-d4		49.7		ug/L	50.0	99%	60 - 140			7123912		12/20/07 21:02
Surrogate: Dibromofluoromethane		51.0		ug/L	50.0	102%	75 - 124			7123912		12/20/07 21:02
Surrogate: Toluene-d8		45.9		ug/L	50.0	92%	78 - 121			7123912		12/20/07 21:02
Surrogate: 4-Bromofluorobenzene		48.3		ug/L	50.0	97%	79 - 124			7123912		12/20/07 21:02
124118-BSD1												
Benzene		41.7		ug/L	50.0	83%	76 - 129	2	50	7124118		12/21/07 23:19
2-Butanone		229		ug/L	250	91%	63 - 138	11	50	7124118		12/21/07 23:19
Carbon Tetrachloride		45.0		ug/L	50.0	90%	56 - 150	4	50	7124118		12/21/07 23:19
Chlorobenzene		44.2		ug/L	50.0	88%	88 - 118	2	50	7124118		12/21/07 23:19

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THE LEADER IN ENVIRONMENTAL TESTING

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

Client	Hart & Hickman (2162) 2923 South Tyron Street, Suite 100 Charlotte, NC 28203-5449	Work Order: Project Name: Project Number: Received:	NQL1927 Goodrich - Delavan GDR-006 12/18/07 07:50
Attn	Shannon Cottrill		

PROJECT QUALITY CONTROL DATA

LCS Dup - Cont.

ıalyte	Orig. Val.	Duplicate	Q	Units	Spike Conc	% Rec.	Target Range	RPD	Limit	Batch	Sample Duplicated	Analyzed Date/Time
TCLP Volatile Organic Compounds by EPA Method 1311/8260B												
124118-BSD1												
:hloroform		44.7		ug/L	50 0	89%	78 - 138	0.8	50	7124118		12/21/07 23.19
1,2-Dichloroethane		45.9		ug/L	50 0	92%	70 - 135	4	50	7124118		12/21/07 23:19
,1-Dichloroethene		39.0		ug/L	50.0	78%	77 - 137	14	50	7124118		12/21/07 23:19
'etrachloroethene		43.5		ug/L	50 0	87%	83 - 126	8	50	7124118		12/21/07 23:19
Trichloroethene		67.6		ug/L	50.0	135%	78 - 137	33	50	7124118		12/21/07 23:19
'/inyl chloride		34.0		ug/L	50.0	68%	62 - 124	1	50	7124118		12/21/07 23:19
ırrogate: 1,2-Dichloroethane-d4		49.0		ug/L	50 0	98%	60 - 140			7124118		12/21/07 23:19
ırrogate: Dibromofluoromethane		49.8		ug/L	50 0	100%	75 - 124			7124118		12/21/07 23:19
Surrogate: Toluene-d8		46.8		ug/L	50.0	94%	78 - 121			7124118		12/21/07 23:19
ırrogate: 4-Bromofluorobenzene		48.9		ug/L	50 0	98%	79 - 124			7124118		12/21/07 23:19

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
2960 Foster Creighton Road Nashville, TN 37204 * 800-765-0980 * Fax 615-726-3404

Client	Hart & Hickman (2162) 2923 South Tyron Street, Suite 100 Charlotte, NC 28203-5449	Work Order:	NQL1927
		Project Name:	Goodrich - Delavan
		Project Number:	GDR-006
.ttn	Shannon Cottrill	Received:	12/18/07 07:50

PROJECT QUALITY CONTROL DATA
Matrix Spike

alyte	Orig Val.	MS Val	Q	Units	Spike Conc	% Rec.	Target Range	Batch	Sample Spiked	Analyzed Date/Time
TCLP Metals by 6000/7000 Series Methods										
23558-MS1										
ercury	ND	0.0207		mg/L	0.0200	104%	63 - 138	7123558	NQL1756-01	12/20/07 13:50
7123614-MS1										
rsenic	ND	9.39		mg/L	10.0	94%	75 - 125	7123614	NQL0236-02	12/20/07 11:52
arium	2.10	102		mg/L	100	100%	75 - 125	7123614	NQL0236-02	12/20/07 11:52
Cadmium	0.0110	9.63		mg/L	10.0	96%	75 - 125	7123614	NQL0236-02	12/20/07 11:52
hromium	0.0320	49.5		mg/L	50.0	99%	75 - 125	7123614	NQL0236-02	12/20/07 11:52
ead	0.0421	49.1		mg/L	50.0	98%	75 - 125	7123614	NQL0236-02	12/20/07 11:52
Selenium	0.102	9.96		mg/L	10.0	99%	75 - 125	7123614	NQL0236-02	12/20/07 11:52
ilver	ND	9.72		mg/L	10.0	97%	75 - 125	7123614	NQL0236-02	12/20/07 11:52
7123616-MS1										
rsenic	ND	10 2		mg/L	10.0	102%	75 - 125	7123616	NQL1927-02	12/20/07 12:44
arium	ND	104		mg/L	100	104%	75 - 125	7123616	NQL1927-02	12/20/07 12:44
Cadmium	ND	10.4		mg/L	10.0	104%	75 - 125	7123616	NQL1927-02	12/20/07 12:44
hromium	ND	53.5		mg/L	50.0	107%	75 - 125	7123616	NQL1927-02	12/20/07 12:44
ead	ND	51.9		mg/L	50.0	104%	75 - 125	7123616	NQL1927-02	12/20/07 12:44
Selenium	ND	11.1		mg/L	10.0	111%	75 - 125	7123616	NQL1927-02	12/20/07 12:44
ilver	ND	10.0		mg/L	10.0	100%	75 - 125	7123616	NQL1927-02	12/20/07 12:44
TCLP Volatile Organic Compounds by EPA Method 1311/8260B										
123912-MS1										
enzene	ND	46.2		ug/L	50.0	92%	18 - 167	7123912	NQL1927-01	12/21/07 04:16
2-Butanone	14.1	205		ug/L	250	76%	10 - 160	7123912	NQL1927-01	12/21/07 04:16
'arbon Tetrachloride	ND	52.4		ug/L	50.0	105%	10 - 189	7123912	NQL1927-01	12/21/07 04:16
'hlorobenzene	ND	48.6		ug/L	50.0	97%	23 - 160	7123912	NQL1927-01	12/21/07 04:16
Chloroform	ND	48.7		ug/L	50.0	97%	17 - 175	7123912	NQL1927-01	12/21/07 04:16
,2-Dichloroethane	ND	46.2		ug/L	50.0	92%	14 - 151	7123912	NQL1927-01	12/21/07 04:16
,1-Dichloroethene	ND	48.0		ug/L	50.0	96%	10 - 185	7123912	NQL1927-01	12/21/07 04:16
Tetrachloroethene	34.3	58.4		ug/L	50.0	48%	16 - 170	7123912	NQL1927-01	12/21/07 04:16
'richloroethene	ND	51.6		ug/L	50.0	103%	10 - 192	7123912	NQL1927-01	12/21/07 04:16
'inyl chloride	ND	33.9		ug/L	50.0	68%	10 - 171	7123912	NQL1927-01	12/21/07 04:16
Surrogate: 1,2-Dichloroethane-d4		48.0		ug/L	50.0	96%	60 - 140	7123912	NQL1927-01	12/21/07 04:16
urrogate: Dibromofluoromethane		50.5		ug/L	50.0	101%	75 - 124	7123912	NQL1927-01	12/21/07 04:16
urrogate: Toluene-d8		47.2		ug/L	50.0	94%	78 - 121	7123912	NQL1927-01	12/21/07 04:16
Surrogate: 4-Bromofluorobenzene		48.2		ug/L	50 0	96%	79 - 124	7123912	NQL1927-01	12/21/07 04:16
124118-MS1										
enzene	ND	0.457		mg/L	0 500	91%	18 - 167	7124118	NQL1927-02	12/22/07 02:32

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THE LEADER IN ENVIRONMENTAL TESTING

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

Client	Hart & Hickman (2162)	Work Order:	NQL1927
	2923 South Tyron Street, Suite 100	Project Name:	Goodrich - Delavan
	Charlotte, NC 28203-5449	Project Number:	GDR-006
Attn	Shannon Cottrill	Received:	12/18/07 07:50

PROJECT QUALITY CONTROL DATA
Matrix Spike - Cont.

alyte	Orig. Val.	MS Val	Q	Units	Spike Conc	% Rec.	Target Range	Batch	Sample Spiked	Analyzed Date/Time
TCLP Volatile Organic Compounds by EPA Method 1311/8260B										
124118-MS1										
-Butanone	ND	2 40		mg/L	2.50	96%	10 - 160	7124118	NQL1927-02	12/22/07 02:32
arbon Tetrachloride	ND	0.525		mg/L	0.500	105%	10 - 189	7124118	NQL1927-02	12/22/07 02:32
Chlorobenzene	ND	0.486		mg/L	0.500	97%	23 - 160	7124118	NQL1927-02	12/22/07 02:32
hloroform	ND	0.496		mg/L	0.500	99%	17 - 175	7124118	NQL1927-02	12/22/07 02:32
,2-Dichloroethane	ND	0.478		mg/L	0.500	96%	14 - 151	7124118	NQL1927-02	12/22/07 02:32
,1-Dichloroethene	ND	0.483		mg/L	0.500	97%	10 - 185	7124118	NQL1927-02	12/22/07 02:32
etrachloroethene	0.0589	0.574		mg/L	0.500	103%	16 - 170	7124118	NQL1927-02	12/22/07 02:32
richloroethene	ND	0 507		mg/L	0.500	101%	10 - 192	7124118	NQL1927-02	12/22/07 02:32
Vinyl chloride	ND	0.322		mg/L	0.500	64%	10 - 171	7124118	NQL1927-02	12/22/07 02.32
urrogate: 1,2-Dichloroethane-d4		49.6		ug/L	50.0	99%	60 - 140	7124118	NQL1927-02	12/22/07 02:32
urrogate: Dibromofluoromethane		51.0		ug/L	50.0	102%	75 - 124	7124118	NQL1927-02	12/22/07 02:32
urrogate: Toluene-d8		47.0		ug/L	50.0	94%	78 - 121	7124118	NQL1927-02	12/22/07 02:32
urrogate: 4-Bromofluorobenzene		47.9		ug/L	50.0	96%	79 - 124	7124118	NQL1927-02	12/22/07 02:32

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
2960 Foster Creighton Road Nashville, TN 37204 * 800-765-0980 * Fax 615-726-3404

Client Hart & Hickman (2162)
2923 South Tyron Street, Suite 100
Charlotte, NC 28203-5449
Attn Shannon Cottrill

Work Order: NQL1927
Project Name: Goodrich - Delavan
Project Number: GDR-006
Received: 12/18/07 07:50

PROJECT QUALITY CONTROL DATA
Matrix Spike Dup

alyte	Orig. Val.	Duplicate	Q	Units	Spike Conc	% Rec	Target Range	RPD	Limit	Batch	Sample Duplicated	Analyzed Date/Time
TCLP Metals by 6000/7000 Series Methods												
23558-MSD1												
ercury	ND	0.0198		mg/L	0.0200	99%	63 - 138	4	22	7123558	NQL1756-01	12/20/07 13:52
23614-MSD1												
senic	ND	9.50		mg/L	10.0	95%	75 - 125	1	20	7123614	NQL0236-02	12/20/07 11:57
Barium	2.10	104		mg/L	100	102%	75 - 125	2	20	7123614	NQL0236-02	12/20/07 11:57
Cadmium	0.0110	9.72		mg/L	10.0	97%	75 - 125	0.9	20	7123614	NQL0236-02	12/20/07 11:57
hromium	0.0320	50.0		mg/L	50.0	100%	75 - 125	1	20	7123614	NQL0236-02	12/20/07 11:57
ead	0.0421	49.6		mg/L	50.0	99%	75 - 125	1	20	7123614	NQL0236-02	12/20/07 11:57
Selenium	0.102	10.0		mg/L	10.0	99%	75 - 125	0.9	20	7123614	NQL0236-02	12/20/07 11:57
ilver	ND	9.78		mg/L	10.0	98%	75 - 125	0.7	20	7123614	NQL0236-02	12/20/07 11:57
7123616-MSD1												
Arsenic	ND	10.2		mg/L	10.0	102%	75 - 125	0.7	20	7123616	NQL1927-02	12/20/07 12:49
arium	ND	105		mg/L	100	105%	75 - 125	1	20	7123616	NQL1927-02	12/20/07 12:49
admium	ND	10.4		mg/L	10.0	104%	75 - 125	0.3	20	7123616	NQL1927-02	12/20/07 12:49
Chromium	ND	53.6		mg/L	50.0	107%	75 - 125	0.3	20	7123616	NQL1927-02	12/20/07 12:49
ead	ND	52.2		mg/L	50.0	104%	75 - 125	0.6	20	7123616	NQL1927-02	12/20/07 12:49
elenium	ND	11.2		mg/L	10.0	112%	75 - 125	0.4	20	7123616	NQL1927-02	12/20/07 12:49
Silver	ND	10.1		mg/L	10.0	101%	75 - 125	0.6	20	7123616	NQL1927-02	12/20/07 12:49
CLP Volatile Organic Compounds by EPA Method 1311/8260B												
7123912-MSD1												
Benzene	ND	45.9		ug/L	50.0	92%	18 - 167	0.7	50	7123912	NQL1927-01	12/21/07 04:40
-Butanone	14.1	209		ug/L	250	78%	10 - 160	2	50	7123912	NQL1927-01	12/21/07 04:40
arbon Tetrachloride	ND	53.0		ug/L	50.0	106%	10 - 189	1	50	7123912	NQL1927-01	12/21/07 04:40
Chlorobenzene	ND	47.3		ug/L	50.0	95%	23 - 160	3	50	7123912	NQL1927-01	12/21/07 04:40
hloroform	ND	48.7		ug/L	50.0	97%	17 - 175	0.06	50	7123912	NQL1927-01	12/21/07 04:40
,2-Dichloroethane	ND	46.5		ug/L	50.0	93%	14 - 151	0.6	50	7123912	NQL1927-01	12/21/07 04:40
1,1-Dichloroethene	ND	47.7		ug/L	50.0	95%	10 - 185	0.6	50	7123912	NQL1927-01	12/21/07 04:40
etrachloroethene	34.3	58.0		ug/L	50.0	47%	16 - 170	0.6	50	7123912	NQL1927-01	12/21/07 04:40
richloroethene	ND	51.1		ug/L	50.0	102%	10 - 192	1	50	7123912	NQL1927-01	12/21/07 04:40
Vinyl chloride	ND	35.3		ug/L	50.0	71%	10 - 171	4	50	7123912	NQL1927-01	12/21/07 04:40
irrogate: 1,2-Dichloroethane-d4		49.2		ug/L	50.0	98%	60 - 140			7123912	NQL1927-01	12/21/07 04:40
irrogate: Dibromofluoromethane		50.5		ug/L	50.0	101%	75 - 124			7123912	NQL1927-01	12/21/07 04:40
irrogate: Toluene-d8		44.8		ug/L	50.0	90%	78 - 121			7123912	NQL1927-01	12/21/07 04:40
Surrogate: 4-Bromofluorobenzene		48.4		ug/L	50.0	97%	79 - 124			7123912	NQL1927-01	12/21/07 04:40
124118-MSD1												
Benzene	ND	0.447		mg/L	0.500	89%	18 - 167	2	50	7124118	NQL1927-02	12/22/07 02:57
-Butanone	ND	2.34		mg/L	2.50	94%	10 - 160	2	50	7124118	NQL1927-02	12/22/07 02:57
Carbon Tetrachloride	ND	0.515		mg/L	0.500	103%	10 - 189	2	50	7124118	NQL1927-02	12/22/07 02:57
Chlorobenzene	ND	0.478		mg/L	0.500	96%	23 - 160	2	50	7124118	NQL1927-02	12/22/07 02:57

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

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

Client	Hart & Hickman (2162)	Work Order:	NQL1927
	2923 South Tyron Street, Suite 100	Project Name:	Goodrich - Delavan
	Charlotte, NC 28203-5449	Project Number:	GDR-006
Attn	Shannon Cottrill	Received:	12/18/07 07:50

PROJECT QUALITY CONTROL DATA

Matrix Spike Dup - Cont.

Analyte	Orig. Val.	Duplicate	Q	Units	Spike Conc	% Rec.	Target Range	RPD	Limit	Batch	Sample Duplicated	Analyzed Date/Time
TCLP Volatile Organic Compounds by EPA Method 1311/8260B												
24118-MSD1												
Chloroform	ND	0.487		mg/L	0.500	97%	17 - 175	2	50	7124118	NQL1927-02	12/22/07 02:57
1,2-Dichloroethane	ND	0 463		mg/L	0 500	93%	14 - 151	3	50	7124118	NQL1927-02	12/22/07 02:57
1,1-Dichloroethene	ND	0.465		mg/L	0 500	93%	10 - 185	4	50	7124118	NQL1927-02	12/22/07 02:57
Tetrachloroethene	0.0589	0.555		mg/L	0.500	99%	16 - 170	3	50	7124118	NQL1927-02	12/22/07 02:57
Trichloroethene	ND	0.500		mg/L	0 500	100%	10 - 192	1	50	7124118	NQL1927-02	12/22/07 02:57
Vinyl chloride	ND	0.311		mg/L	0.500	62%	10 - 171	3	50	7124118	NQL1927-02	12/22/07 02:57
Surrogate: 1,2-Dichloroethane-d4		49.2		ug/L	50.0	98%	60 - 140			7124118	NQL1927-02	12/22/07 02:57
Surrogate: Dibromofluoromethane		50.3		ug/L	50 0	101%	75 - 124			7124118	NQL1927-02	12/22/07 02:57
Surrogate: Toluene-d8		47.0		ug/L	50.0	94%	78 - 121			7124118	NQL1927-02	12/22/07 02:57
Surrogate: 4-Bromofluorobenzene		48.1		ug/L	50 0	96%	79 - 124			7124118	NQL1927-02	12/22/07 02:57

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
2960 Foster Creighton Road Nashville, TN 37204 * 800-765-0980 * Fax 615-726-3404

Client Hart & Hickman (2162)
2923 South Tyron Street, Suite 100
Charlotte, NC 28203-5449
Attn Shannon Cottrill

Work Order: NQL1927
Project Name: Goodrich - Delavan
Project Number: GDR-006
Received: 12/18/07 07:50

CERTIFICATION SUMMARY

TestAmerica Nashville

Method	Matrix	AIHA	Nelac	South Carolina
SW846 1311/6010B	Soil	N/A	X	X
SW846 1311/6010B	Water	N/A	X	X
SW846 1311/7470A	Soil	N/A	X	X
SW846 1311/7470A	Water	N/A	X	X
SW846 1311/8260B	Soil	N/A	X	X
SW846 1311/8260B	Water	N/A	X	X
SW846 1311	Soil	N/A	X	X
SW846 1311	Water	N/A	X	X

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
2960 Foster Creighton Road Nashville, TN 37204 * 800-765-0980 * Fax 615-726-3404

Client	Hart & Hickman (2162)	Work Order:	NQL1927
	2923 South Tyron Street, Suite 100	Project Name:	Goodrich - Delavan
	Charlotte, NC 28203-5449	Project Number:	GDR-006
Attn	Shannon Cottrill	Received:	12/18/07 07:50

TCLP REGULATORY LIMITS

Analyte	Regulatory Limit
1,1-Dichloroethene	0.7
1,2-Dichloroethane	0.5
2-Butanone	200
Arsenic	5
Barium	100
Benzene	0.5
Cadmium	1
Carbon Tetrachloride	0.5
Chlorobenzene	100
Chloroform	6
Chromium	5
Lead	5
Mercury	0.2
Selenium	1
Silver	5
Tetrachloroethene	0.7
Trichloroethene	0.5
Vinyl chloride	0.2

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

Client	Hart & Hickman (2162)	Work Order:	NQL1927
	2923 South Tyron Street, Suite 100	Project Name:	Goodrich - Delavan
	Charlotte, NC 28203-5449	Project Number:	GDR-006
Attn	Shannon Cottrill	Received:	12/18/07 07:50

DATA QUALIFIERS AND DEFINITIONS

L	Laboratory Control Sample and/or Laboratory Control Sample Duplicate recovery was above the acceptance limits. Analyte not detected, data not impacted.
L1	Laboratory Control Sample and/or Laboratory Control Sample Duplicate recovery was above acceptance limits.
L2	Laboratory Control Sample and/or Laboratory Control Sample Duplicate recovery was below acceptance limits.
ND	Not detected at the reporting limit (or method detection limit if shown)

METHOD MODIFICATION NOTES

TestAmerica
ANALYTICAL TESTING CORPORATION

NQL1927
12/27/07 23:59

To assist us in using the proper analytical methods, is this work being conducted for regulatory purposes?
Compliance Monitoring ______

Client Name: Hart + Hickman, PC Client #: 2162
Address: 2923 S. Tryon Street Suite 100
City/State/Zip Code: Charlotte, NC 28203
Project Manager: Shannon Cottrill
Telephone Number: 704-586-0007 Fax:
Sampler Name: (Print Name) John Meyer
Sampler Signature: [illegible]

Project Name: Goodrich-Delavan
Project #: GDR-006
Site/Location ID: Bamberg State: SC
Report To: scottrill@harthickman.com
Invoice To:
Quote #: PO#:

TAT: [✓ Standard] ___ Rush (surcharges may apply)
Date Needed: ______
Fax Results: Y N

SAMPLE ID	Date Sampled	Time Sampled	G = Grab, C = Composite	Field Filtered	Matrix (SL - Sludge DW - Drinking Water GW - Groundwater S - Soil/Solid WW - Wastewater Specify Other)	HNO_3	HCl	NaOH	H_2SO_4	Methanol	None	Other (Specify)	TCLP VOCs	TCLP Metals									REMARKS
DRUM COMP	12/17/07	1200	C		S						2		X	X									NQL1927-01
DRUM COMP	12/17/07	1400	C		GW						4		X	X									02

QC Deliverables
___ None
___ Level 2 (Batch QC)
___ Level 3
___ Level 4
Other: ______

Special Instructions:

Relinquished By	Date	Time	Received By	Date	Time
[illegible]	12/17/07	1500			
			[illegible]	12-18-07	0750

LABORATORY COMMENTS:
Init Lab Temp:
Rec Lab Temp: 0.2c
Custody Seals: Y N N/A
Bottles Supplied by Test America: Y N
Method of Shipment:

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Nashville, TN

COOLER RECEI

NQL1927

Cooler Received/Opened On 12/18/2007 @ 0750

1. Tracking # 5934 (last 4 digits, FedEx)

Courier: FedEx IR Gun ID 90942856

2. Temperature of rep. sample or temp blank when opened: 0.2 *Degrees Celsius*

3. If Item #2 temperature is 0°C or less, was the representative sample or temp blank frozen? YES NO...NA

4. Were custody seals on outside of cooler? YES...NO...NA

If yes, how many and where: 1 front

5. Were the seals intact, signed, and dated correctly? YES...NO...NA

6. Were custody papers inside cooler? YES...NO...NA

I certify that I opened the cooler and answered questions 1-6 (intial) RB

7. Were custody seals on containers: YES NO and Intact YES...NO...NA

Were these signed and dated correctly? YES...NO...NA

8. Packing mat'l used? Bubblewrap Plastic bag Peanuts Vermiculite Foam Insert Paper Other None

9. Cooling process: Ice Ice-pack Ice (direct contact) Dry ice Other None

10. Did all containers arrive in good condition (unbroken)? YES...NO...NA

11. Were all container labels complete (#, date, signed, pres., etc)? YES...NO...NA

12. Did all container labels and tags agree with custody papers? YES...NO...NA

13a. Were VOA vials received? YES...NO...NA

b. Was there any observable headspace present in any VOA vial? YES...NO...NA

14. Was there a Trip Blank in this cooler? YES...NO...NA If multiple coolers, sequence #________

I certify that I unloaded the cooler and answered questions 7-14 (intial)

15a. On pres'd bottles, did pH test strips suggest preservation reached the correct pH level? YES..NO..NA

b. Did the bottle labels indicate that the correct preservatives were used YES...NO...NA

If preservation in-house was needed, record standard ID of preservative used here________

16. Was residual chlorine present? YES...NO...NA

I certify that I checked for chlorine and pH as per SOP and answered questions 15-16 (intial)

17. Were custody papers properly filled out (ink, signed, etc)? YES...NO...NA

18. Did you sign the custody papers in the appropriate place? YES...NO...NA

19. Were correct containers used for the analysis requested? YES...NO...NA

20. Was sufficient amount of sample sent in each container? YES...NO...NA

I certify that I entered this project into LIMS and answered questions 17-20 (intial)

I certify that I attached a label with the unique LIMS number to each container (intial)

21. Were there Non-Conformance issues at login? YES...NO Was a PIPE generated? YES...NO...#________

BIS = Broken in shipment

Cooler Receipt Form.doc

End of Form

Revised 9/6/07

Appendix D

Laboratory Analytical Data – Ground Water

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
2960 Foster Creighton Road Nashville, TN 37204 * 800-765-0980 * Fax 615-726-3404

January 17, 2008 4:43:29PM

Client:	Hart & Hickman (2162)	Work Order:	NRA0822
	2923 South Tyron Street, Suite 100	Project Name:	GDR-006
	Charlotte, NC 28203-5449	Project Nbr:	[none]
Attn:	Shannon Cottrill	P/O Nbr:	
		Date Received:	01/10/08

SAMPLE IDENTIFICATION	LAB NUMBER	COLLECTION DATE AND TIME
MW-1	NRA0822-01	01/09/08 11:00
MW-2	NRA0822-02	01/09/08 09:40
MW-3	NRA0822-03	01/09/08 10:05
MW-3D	NRA0822-04	01/09/08 10:15
MW-4	NRA0822-05	01/09/08 10:40
MW-5	NRA0822-06	01/09/08 09:25
MW-6	NRA0822-07	01/09/08 09:20
MW-7	NRA0822-08	01/09/08 10:50
MW-8	NRA0822-09	01/09/08 09:15
MW-9	NRA0822-10	01/09/08 09:05
MW-9D	NRA0822-11	01/09/08 09:00
MW-10	NRA0822-12	01/09/08 08:35
MW-10D	NRA0822-13	01/09/08 08:30
MW-11	NRA0822-14	01/09/08 08:40
SW-1	NRA0822-15	01/09/08 08:45
Trip Blank	NRA0822-16	01/09/08 00:01

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

South Carolina Certification Number: WW & S/HW cert - 84009001 DW cert - 84009002
The Chain(s) of Custody, 3 pages, are included and are an integral part of this report.

These results relate only to the items tested. This report shall not be reproduced except in full and with permission of the laboratory.

All solids results are reported in wet weight unless specifically stated.
Estimated uncertainity is available upon request.
This report has been electronically signed.
Report Approved By:

Bridget Minor Cole

Bridget Minor Cole

RECEIVED
JAN 2 2 2008
BY:

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

Client	Hart & Hickman (2162) 2923 South Tyron Street, Suite 100 Charlotte, NC 28203-5449	Work Order:	NRA0822
		Project Name:	GDR-006
		Project Number:	[none]
Attn	Shannon Cottrill	Received:	01/10/08 08:00

Project Manager

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

Client Hart & Hickman (2162)
2923 South Tyron Street, Suite 100
Charlotte, NC 28203-5449
Attn Shannon Cottrill

Work Order: NRA0822
Project Name: GDR-006
Project Number: [none]
Received: 01/10/08 08:00

ANALYTICAL REPORT

nalyte	Result	Flag	Units	MRL	Dilution Factor	Analysis Date/Time	Method	Batch
Sample ID: NRA0822-01 (MW-1 - Ground Water) Sampled: 01/09/08 11:00								
eneral Chemistry Parameters								
otal Organic Carbon	ND		mg/L	1.00	1	01/16/08 08:33	SW846 9060A	8012492
Volatile Organic Compounds by EPA Method 8260B								
romodichloromethane	ND		ug/L	1.00	1	01/15/08 01:22	SW846 8260B	8012507
romoform	ND		ug/L	1.00	1	01/15/08 01:22	SW846 8260B	8012507
romomethane	ND		ug/L	1.00	1	01/15/08 01:22	SW846 8260B	8012507
arbon Tetrachloride	ND		ug/L	1.00	1	01/15/08 01:22	SW846 8260B	8012507
hlorobenzene	ND		ug/L	1.00	1	01/15/08 01:22	SW846 8260B	8012507
hlorodibromomethane	ND		ug/L	1.00	1	01/15/08 01:22	SW846 8260B	8012507
Chloroethane	ND		ug/L	1.00	1	01/15/08 01:22	SW846 8260B	8012507
hloroform	ND		ug/L	1.00	1	01/15/08 01:22	SW846 8260B	8012507
hloromethane	ND		ug/L	1.00	1	01/15/08 01:22	SW846 8260B	8012507
1,4-Dichlorobenzene	ND		ug/L	1.00	1	01/15/08 01:22	SW846 8260B	8012507
,3-Dichlorobenzene	ND		ug/L	1.00	1	01/15/08 01:22	SW846 8260B	8012507
2-Dichlorobenzene	ND		ug/L	1.00	1	01/15/08 01:22	SW846 8260B	8012507
,1-Dichloroethane	ND		ug/L	1.00	1	01/15/08 01:22	SW846 8260B	8012507
1,2-Dichloroethane	ND		ug/L	1.00	1	01/15/08 01:22	SW846 8260B	8012507
s-1,2-Dichloroethene	**102**		ug/L	1.00	1	01/15/08 01:22	SW846 8260B	8012507
,1-Dichloroethene	ND		ug/L	1.00	1	01/15/08 01:22	SW846 8260B	8012507
trans-1,2-Dichloroethene	ND		ug/L	1.00	1	01/15/08 01:22	SW846 8260B	8012507
,2-Dichloropropane	ND		ug/L	1.00	1	01/15/08 01:22	SW846 8260B	8012507
s-1,3-Dichloropropene	ND		ug/L	1.00	1	01/15/08 01:22	SW846 8260B	8012507
ans-1,3-Dichloropropene	ND		ug/L	1.00	1	01/15/08 01:22	SW846 8260B	8012507
Methylene Chloride	ND		ug/L	5.00	1	01/15/08 01:22	SW846 8260B	8012507
,1,2,2-Tetrachloroethane	ND		ug/L	1.00	1	01/15/08 01:22	SW846 8260B	8012507
etrachloroethene	**5390**		ug/L	50.0	50	01/15/08 15:43	SW846 8260B	8012561
1,1,2-Trichloroethane	ND		ug/L	1.00	1	01/15/08 01:22	SW846 8260B	8012507
,1,1-Trichloroethane	ND		ug/L	1.00	1	01/15/08 01:22	SW846 8260B	8012507
richloroethene	**83.7**		ug/L	1.00	1	01/15/08 01:22	SW846 8260B	8012507
richlorofluoromethane	ND		ug/L	1.00	1	01/15/08 01:22	SW846 8260B	8012507
Vinyl chloride	ND		ug/L	1.00	1	01/15/08 01:22	SW846 8260B	8012507
rr: 1,2-Dichloroethane-d4 (60-140%)	*101 %*					*01/15/08 01:22*	*SW846 8260B*	*8012507*
rr: 1,2-Dichloroethane-d4 (60-140%)	*103 %*					*01/15/08 15:43*	*SW846 8260B*	*8012561*
Surr: Dibromofluoromethane (75-124%)	*102 %*					*01/15/08 01:22*	*SW846 8260B*	*8012507*
rr: Dibromofluoromethane (75-124%)	*105 %*					*01/15/08 15:43*	*SW846 8260B*	*8012561*
rr: Toluene-d8 (78-121%)	*100 %*					*01/15/08 01:22*	*SW846 8260B*	*8012507*
rr: Toluene-d8 (78-121%)	*97 %*					*01/15/08 15:43*	*SW846 8260B*	*8012561*
Surr: 4-Bromofluorobenzene (79-124%)	*93 %*					*01/15/08 01:22*	*SW846 8260B*	*8012507*
rr: 4-Bromofluorobenzene (79-124%)	*92 %*					*01/15/08 15:43*	*SW846 8260B*	*8012561*

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THE LEADER IN ENVIRONMENTAL TESTING

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

Client	Hart & Hickman (2162) 2923 South Tyron Street, Suite 100 Charlotte, NC 28203-5449	Work Order: Project Name: Project Number:	NRA0822 GDR-006 [none]
Attn	Shannon Cottrill	Received:	01/10/08 08:00

ANALYTICAL REPORT

Analyte	Result	Flag	Units	MRL	Dilution Factor	Analysis Date/Time	Method	Batch
Sample ID: NRA0822-02 (MW-2 - Ground Water) Sampled: 01/09/08 09:40								
Volatile Organic Compounds by EPA Method 8260B								
romodichloromethane	ND		ug/L	1.00	1	01/15/08 01:48	SW846 8260B	8012507
Bromoform	ND		ug/L	1.00	1	01/15/08 01:48	SW846 8260B	8012507
Bromomethane	ND		ug/L	1.00	1	01/15/08 01:48	SW846 8260B	8012507
arbon Tetrachloride	ND		ug/L	1.00	1	01/15/08 01:48	SW846 8260B	8012507
hlorobenzene	ND		ug/L	1.00	1	01/15/08 01:48	SW846 8260B	8012507
Chlorodibromomethane	ND		ug/L	1.00	1	01/15/08 01:48	SW846 8260B	8012507
hloroethane	ND		ug/L	1.00	1	01/15/08 01:48	SW846 8260B	8012507
hloroform	ND		ug/L	1.00	1	01/15/08 01:48	SW846 8260B	8012507
Chloromethane	ND		ug/L	1.00	1	01/15/08 01:48	SW846 8260B	8012507
1,4-Dichlorobenzene	ND		ug/L	1.00	1	01/15/08 01:48	SW846 8260B	8012507
,3-Dichlorobenzene	ND		ug/L	1.00	1	01/15/08 01:48	SW846 8260B	8012507
2-Dichlorobenzene	ND		ug/L	1.00	1	01/15/08 01:48	SW846 8260B	8012507
1,1-Dichloroethane	ND		ug/L	1.00	1	01/15/08 01:48	SW846 8260B	8012507
,2-Dichloroethane	ND		ug/L	1.00	1	01/15/08 01:48	SW846 8260B	8012507
s-1,2-Dichloroethene	ND		ug/L	1.00	1	01/15/08 01:48	SW846 8260B	8012507
1,1-Dichloroethene	ND		ug/L	1.00	1	01/15/08 01:48	SW846 8260B	8012507
trans-1,2-Dichloroethene	ND		ug/L	1.00	1	01/15/08 01:48	SW846 8260B	8012507
2-Dichloropropane	ND		ug/L	1.00	1	01/15/08 01:48	SW846 8260B	8012507
s-1,3-Dichloropropene	ND		ug/L	1.00	1	01/15/08 01:48	SW846 8260B	8012507
trans-1,3-Dichloropropene	ND		ug/L	1.00	1	01/15/08 01:48	SW846 8260B	8012507
Iethylene Chloride	ND		ug/L	5.00	1	01/15/08 01:48	SW846 8260B	8012507
,1,2,2-Tetrachloroethane	ND		ug/L	1.00	1	01/15/08 01:48	SW846 8260B	8012507
Tetrachloroethene	**2.50**		ug/L	1.00	1	01/15/08 14:02	SW846 8260B	8012561
1,1,2-Trichloroethane	ND		ug/L	1.00	1	01/15/08 01:48	SW846 8260B	8012507
,1,1-Trichloroethane	ND		ug/L	1.00	1	01/15/08 01:48	SW846 8260B	8012507
richloroethene	ND		ug/L	1.00	1	01/15/08 01:48	SW846 8260B	8012507
Trichlorofluoromethane	ND		ug/L	1.00	1	01/15/08 01:48	SW846 8260B	8012507
inyl chloride	ND		ug/L	1.00	1	01/15/08 01:48	SW846 8260B	8012507
urr: 1,2-Dichloroethane-d4 (60-140%)	*101 %*					*01/15/08 01:48*	*SW846 8260B*	*8012507*
Surr: 1,2-Dichloroethane-d4 (60-140%)	*104 %*					*01/15/08 14:02*	*SW846 8260B*	*8012561*
Surr: Dibromofluoromethane (75-124%)	*103 %*					*01/15/08 01:48*	*SW846 8260B*	*8012507*
urr: Dibromofluoromethane (75-124%)	*102 %*					*01/15/08 14:02*	*SW846 8260B*	*8012561*
urr: Toluene-d8 (78-121%)	*99 %*					*01/15/08 01:48*	*SW846 8260B*	*8012507*
Surr: Toluene-d8 (78-121%)	*97 %*					*01/15/08 14:02*	*SW846 8260B*	*8012561*
Surr: 4-Bromofluorobenzene (79-124%)	*94 %*					*01/15/08 01:48*	*SW846 8260B*	*8012507*
urr: 4-Bromofluorobenzene (79-124%)	*92 %*					*01/15/08 14:02*	*SW846 8260B*	*8012561*

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THE LEADER IN ENVIRONMENTAL TESTING

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

Client	Hart & Hickman (2162) 2923 South Tyron Street, Suite 100 Charlotte, NC 28203-5449	Work Order: Project Name: Project Number:	NRA0822 GDR-006 [none]
Attn	Shannon Cottrill	Received:	01/10/08 08:00

ANALYTICAL REPORT

Analyte	Result	Flag	Units	MRL	Dilution Factor	Analysis Date/Time	Method	Batch
ample ID: NRA0822-03 (MW-3 - Ground Water) Sampled: 01/09/08 10:05								
Volatile Organic Compounds by EPA Method 8260B								
romodichloromethane	ND		ug/L	1.00	1	01/15/08 02:13	SW846 8260B	8012507
romoform	ND		ug/L	1.00	1	01/15/08 02:13	SW846 8260B	8012507
Bromomethane	ND		ug/L	1.00	1	01/15/08 02:13	SW846 8260B	8012507
'arbon Tetrachloride	ND		ug/L	1.00	1	01/15/08 02:13	SW846 8260B	8012507
'hlorobenzene	ND		ug/L	1.00	1	01/15/08 02:13	SW846 8260B	8012507
Chlorodibromomethane	ND		ug/L	1.00	1	01/15/08 02:13	SW846 8260B	8012507
'hloroethane	ND		ug/L	1.00	1	01/15/08 02:13	SW846 8260B	8012507
'hloroform	ND		ug/L	1.00	1	01/15/08 02:13	SW846 8260B	8012507
Chloromethane	ND		ug/L	1.00	1	01/15/08 02:13	SW846 8260B	8012507
1,4-Dichlorobenzene	ND		ug/L	1.00	1	01/15/08 02:13	SW846 8260B	8012507
,3-Dichlorobenzene	ND		ug/L	1.00	1	01/15/08 02:13	SW846 8260B	8012507
,2-Dichlorobenzene	ND		ug/L	1.00	1	01/15/08 02:13	SW846 8260B	8012507
1,1-Dichloroethane	ND		ug/L	1.00	1	01/15/08 02:13	SW846 8260B	8012507
,2-Dichloroethane	ND		ug/L	1.00	1	01/15/08 02:13	SW846 8260B	8012507
's-1,2-Dichloroethene	ND		ug/L	1.00	1	01/15/08 02:13	SW846 8260B	8012507
1,1-Dichloroethene	ND		ug/L	1.00	1	01/15/08 02:13	SW846 8260B	8012507
trans-1,2-Dichloroethene	ND		ug/L	1.00	1	01/15/08 02:13	SW846 8260B	8012507
,2-Dichloropropane	ND		ug/L	1.00	1	01/15/08 02:13	SW846 8260B	8012507
's-1,3-Dichloropropene	ND		ug/L	1.00	1	01/15/08 02:13	SW846 8260B	8012507
trans-1,3-Dichloropropene	ND		ug/L	1.00	1	01/15/08 02:13	SW846 8260B	8012507
lethylene Chloride	ND		ug/L	5.00	1	01/15/08 02:13	SW846 8260B	8012507
,1,2,2-Tetrachloroethane	ND		ug/L	1.00	1	01/15/08 02:13	SW846 8260B	8012507
etrachloroethene	**59.8**		ug/L	1.00	1	01/15/08 02:13	SW846 8260B	8012507
1,1,2-Trichloroethane	ND		ug/L	1.00	1	01/15/08 02:13	SW846 8260B	8012507
,1,1-Trichloroethane	ND		ug/L	1.00	1	01/15/08 02:13	SW846 8260B	8012507
richloroethene	ND		ug/L	1.00	1	01/15/08 02:13	SW846 8260B	8012507
Trichlorofluoromethane	ND		ug/L	1.00	1	01/15/08 02:13	SW846 8260B	8012507
'inyl chloride	ND		ug/L	1.00	1	01/15/08 02:13	SW846 8260B	8012507
urr: 1,2-Dichloroethane-d4 (60-140%)	*99 %*					*01/15/08 02:13*	*SW846 8260B*	*8012507*
urr: Dibromofluoromethane (75-124%)	*102 %*					*01/15/08 02:13*	*SW846 8260B*	*8012507*
Surr: Toluene-d8 (78-121%)	*99 %*					*01/15/08 02:13*	*SW846 8260B*	*8012507*
urr: 4-Bromofluorobenzene (79-124%)	*94 %*					*01/15/08 02:13*	*SW846 8260B*	*8012507*

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

Client	Hart & Hickman (2162) 2923 South Tyron Street, Suite 100 Charlotte, NC 28203-5449	Work Order: Project Name: Project Number:	NRA0822 GDR-006 [none]
Attn	Shannon Cottrill	Received:	01/10/08 08:00

ANALYTICAL REPORT

ꞁnalyte	Result	Flag	Units	MRL	Dilution Factor	Analysis Date/Time	Method	Batch
ꞩample ID: NRA0822-04 (MW-3D - Ground Water) Sampled: 01/09/08 10:15								
ˈ/olatile Organic Compounds by EPA Method 8260B								
romodichloromethane	ND		ug/L	1.00	1	01/15/08 02:38	SW846 8260B	8012507
ꞁromoform	ND		ug/L	1.00	1	01/15/08 02:38	SW846 8260B	8012507
Bromomethane	ND		ug/L	1.00	1	01/15/08 02:38	SW846 8260B	8012507
ırbon Tetrachloride	ND		ug/L	1.00	1	01/15/08 02:38	SW846 8260B	8012507
ılorobenzene	ND		ug/L	1.00	1	01/15/08 02:38	SW846 8260B	8012507
Chlorodibromomethane	ND		ug/L	1.00	1	01/15/08 02:38	SW846 8260B	8012507
ıloroethane	ND		ug/L	1.00	1	01/15/08 02:38	SW846 8260B	8012507
ıloroform	ND		ug/L	1.00	1	01/15/08 02:38	SW846 8260B	8012507
ꞁıloromethane	ND		ug/L	1.00	1	01/15/08 02:38	SW846 8260B	8012507
1 4-Dichlorobenzene	ND		ug/L	1.00	1	01/15/08 02:38	SW846 8260B	8012507
3-Dichlorobenzene	ND		ug/L	1.00	1	01/15/08 02:38	SW846 8260B	8012507
2-Dichlorobenzene	ND		ug/L	1.00	1	01/15/08 02:38	SW846 8260B	8012507
1,1-Dichloroethane	ND		ug/L	1.00	1	01/15/08 02:38	SW846 8260B	8012507
2-Dichloroethane	ND		ug/L	1.00	1	01/15/08 02:38	SW846 8260B	8012507
s-1,2-Dichloroethene	**5.52**		ug/L	1.00	1	01/15/08 02:38	SW846 8260B	8012507
ı,1-Dichloroethene	**9.68**		ug/L	1.00	1	01/15/08 02:38	SW846 8260B	8012507
trans-1,2-Dichloroethene	ND		ug/L	1.00	1	01/15/08 02:38	SW846 8260B	8012507
2-Dichloropropane	ND		ug/L	1.00	1	01/15/08 02:38	SW846 8260B	8012507
s-1,3-Dichloropropene	ND		ug/L	1.00	1	01/15/08 02:38	SW846 8260B	8012507
trans-1,3-Dichloropropene	ND		ug/L	1.00	1	01/15/08 02:38	SW846 8260B	8012507
ethylene Chloride	ND		ug/L	5.00	1	01/15/08 02:38	SW846 8260B	8012507
1,2,2-Tetrachloroethane	ND		ug/L	1.00	1	01/15/08 02:38	SW846 8260B	8012507
Tetrachloroethene	**432**		ug/L	5.00	5	01/15/08 16:09	SW846 8260B	8012561
1,2-Trichloroethane	ND		ug/L	1.00	1	01/15/08 02:38	SW846 8260B	8012507
1,1-Trichloroethane	ND		ug/L	1.00	1	01/15/08 02:38	SW846 8260B	8012507
ichloroethene	**3.33**		ug/L	1.00	1	01/15/08 02:38	SW846 8260B	8012507
Trichlorofluoromethane	ND		ug/L	1.00	1	01/15/08 02:38	SW846 8260B	8012507
inyl chloride	ND		ug/L	1.00	1	01/15/08 02:38	SW846 8260B	8012507
rr: 1,2-Dichloroethane-d4 (60-140%)	*101 %*					*01/15/08 02:38*	*SW846 8260B*	*8012507*
ꞩurr: 1,2-Dichloroethane-d4 (60-140%)	*105 %*					*01/15/08 16:09*	*SW846 8260B*	*8012561*
Surr: Dibromofluoromethane (75-124%)	*103 %*					*01/15/08 02:38*	*SW846 8260B*	*8012507*
rr: Dibromofluoromethane (75-124%)	*106 %*					*01/15/08 16:09*	*SW846 8260B*	*8012561*
rr: Toluene-d8 (78-121%)	*97 %*					*01/15/08 02:38*	*SW846 8260B*	*8012507*
Surr: Toluene-d8 (78-121%)	*95 %*					*01/15/08 16:09*	*SW846 8260B*	*8012561*
rr: 4-Bromofluorobenzene (79-124%)	*92 %*					*01/15/08 02:38*	*SW846 8260B*	*8012507*
rr: 4-Bromofluorobenzene (79-124%)	*88 %*					*01/15/08 16:09*	*SW846 8260B*	*8012561*

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

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

Client	Hart & Hickman (2162) 2923 South Tyron Street, Suite 100 Charlotte, NC 28203-5449	Work Order: Project Name: Project Number:	NRA0822 GDR-006 [none]
Attn	Shannon Cottrill	Received:	01/10/08 08:00

ANALYTICAL REPORT

Analyte	Result	Flag	Units	MRL	Dilution Factor	Analysis Date/Time	Method	Batch
Sample ID: NRA0822-05 (MW-4 - Ground Water) Sampled: 01/09/08 10:40								
Volatile Organic Compounds by EPA Method 8260B								
romodichloromethane	ND		ug/L	1.00	1	01/15/08 03:04	SW846 8260B	8012507
romoform	ND		ug/L	1.00	1	01/15/08 03:04	SW846 8260B	8012507
Bromomethane	ND		ug/L	1.00	1	01/15/08 03:04	SW846 8260B	8012507
'arbon Tetrachloride	ND		ug/L	1.00	1	01/15/08 03:04	SW846 8260B	8012507
'hlorobenzene	ND		ug/L	1.00	1	01/15/08 03:04	SW846 8260B	8012507
Chlorodibromomethane	ND		ug/L	1.00	1	01/15/08 03:04	SW846 8260B	8012507
'hloroethane	ND		ug/L	1.00	1	01/15/08 03:04	SW846 8260B	8012507
'hloroform	ND		ug/L	1.00	1	01/15/08 03:04	SW846 8260B	8012507
Chloromethane	ND		ug/L	1.00	1	01/15/08 03:04	SW846 8260B	8012507
1,4-Dichlorobenzene	ND		ug/L	1.00	1	01/15/08 03:04	SW846 8260B	8012507
,3-Dichlorobenzene	ND		ug/L	1.00	1	01/15/08 03:04	SW846 8260B	8012507
,2-Dichlorobenzene	ND		ug/L	1.00	1	01/15/08 03:04	SW846 8260B	8012507
1,1-Dichloroethane	ND		ug/L	1.00	1	01/15/08 03:04	SW846 8260B	8012507
,2-Dichloroethane	ND		ug/L	1.00	1	01/15/08 03:04	SW846 8260B	8012507
s-1,2-Dichloroethene	ND		ug/L	1.00	1	01/15/08 03:04	SW846 8260B	8012507
1,1-Dichloroethene	ND		ug/L	1.00	1	01/15/08 03:04	SW846 8260B	8012507
trans-1,2-Dichloroethene	ND		ug/L	1.00	1	01/15/08 03:04	SW846 8260B	8012507
,2-Dichloropropane	ND		ug/L	1.00	1	01/15/08 03:04	SW846 8260B	8012507
s-1,3-Dichloropropene	ND		ug/L	1.00	1	01/15/08 03:04	SW846 8260B	8012507
trans-1,3-Dichloropropene	ND		ug/L	1.00	1	01/15/08 03:04	SW846 8260B	8012507
Iethylene Chloride	ND		ug/L	5.00	1	01/15/08 03:04	SW846 8260B	8012507
,1,2,2-Tetrachloroethane	ND		ug/L	1.00	1	01/15/08 03:04	SW846 8260B	8012507
Tetrachloroethene	ND		ug/L	1.00	1	01/15/08 03:04	SW846 8260B	8012507
1,1,2-Trichloroethane	ND		ug/L	1.00	1	01/15/08 03:04	SW846 8260B	8012507
,1,1-Trichloroethane	ND		ug/L	1.00	1	01/15/08 03:04	SW846 8260B	8012507
richloroethene	ND		ug/L	1.00	1	01/15/08 03:04	SW846 8260B	8012507
Trichlorofluoromethane	ND		ug/L	1.00	1	01/15/08 03:04	SW846 8260B	8012507
inyl chloride	ND		ug/L	1.00	1	01/15/08 03:04	SW846 8260B	8012507
rr: 1,2-Dichloroethane-d4 (60-140%)	*103 %*					*01/15/08 03:04*	*SW846 8260B*	*8012507*
Surr: Dibromofluoromethane (75-124%)	*104 %*					*01/15/08 03:04*	*SW846 8260B*	*8012507*
Surr: Toluene-d8 (78-121%)	*96 %*					*01/15/08 03:04*	*SW846 8260B*	*8012507*
rr: 4-Bromofluorobenzene (79-124%)	*90 %*					*01/15/08 03:04*	*SW846 8260B*	*8012507*

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
2960 Foster Creighton Road Nashville, TN 37204 * 800-765-0980 * Fax 615-726-3404

Client	Hart & Hickman (2162)	Work Order:	NRA0822
	2923 South Tyron Street, Suite 100	Project Name:	GDR-006
	Charlotte, NC 28203-5449	Project Number:	[none]
Attn	Shannon Cottrill	Received:	01/10/08 08:00

ANALYTICAL REPORT

Analyte	Result	Flag	Units	MRL	Dilution Factor	Analysis Date/Time	Method	Batch
Sample ID: NRA0822-06 (MW-5 - Ground Water) Sampled: 01/09/08 09:25								
Volatile Organic Compounds by EPA Method 8260B								
Bromodichloromethane	ND		ug/L	1.00	1	01/15/08 03:29	SW846 8260B	8012507
Bromoform	ND		ug/L	1.00	1	01/15/08 03:29	SW846 8260B	8012507
Bromomethane	ND		ug/L	1.00	1	01/15/08 03:29	SW846 8260B	8012507
Carbon Tetrachloride	ND		ug/L	1.00	1	01/15/08 03:29	SW846 8260B	8012507
Chlorobenzene	ND		ug/L	1.00	1	01/15/08 03:29	SW846 8260B	8012507
Chlorodibromomethane	ND		ug/L	1.00	1	01/15/08 03:29	SW846 8260B	8012507
Chloroethane	ND		ug/L	1.00	1	01/15/08 03:29	SW846 8260B	8012507
Chloroform	ND		ug/L	1.00	1	01/15/08 03:29	SW846 8260B	8012507
Chloromethane	ND		ug/L	1.00	1	01/15/08 03:29	SW846 8260B	8012507
1,4-Dichlorobenzene	ND		ug/L	1.00	1	01/15/08 03:29	SW846 8260B	8012507
1,3-Dichlorobenzene	ND		ug/L	1.00	1	01/15/08 03:29	SW846 8260B	8012507
1,2-Dichlorobenzene	ND		ug/L	1.00	1	01/15/08 03:29	SW846 8260B	8012507
1,1-Dichloroethane	ND		ug/L	1.00	1	01/15/08 03:29	SW846 8260B	8012507
1,2-Dichloroethane	ND		ug/L	1.00	1	01/15/08 03:29	SW846 8260B	8012507
cis-1,2-Dichloroethene	ND		ug/L	1.00	1	01/15/08 03:29	SW846 8260B	8012507
1,1-Dichloroethene	ND		ug/L	1.00	1	01/15/08 03:29	SW846 8260B	8012507
trans-1,2-Dichloroethene	ND		ug/L	1.00	1	01/15/08 03:29	SW846 8260B	8012507
1,2-Dichloropropane	ND		ug/L	1.00	1	01/15/08 03:29	SW846 8260B	8012507
cis-1,3-Dichloropropene	ND		ug/L	1.00	1	01/15/08 03:29	SW846 8260B	8012507
trans-1,3-Dichloropropene	ND		ug/L	1.00	1	01/15/08 03:29	SW846 8260B	8012507
Methylene Chloride	ND		ug/L	5.00	1	01/15/08 03:29	SW846 8260B	8012507
1,1,2,2-Tetrachloroethane	ND		ug/L	1.00	1	01/15/08 03:29	SW846 8260B	8012507
Tetrachloroethene	**97.6**		ug/L	1.00	1	01/15/08 03:29	SW846 8260B	8012507
1,1,2-Trichloroethane	ND		ug/L	1.00	1	01/15/08 03:29	SW846 8260B	8012507
1,1,1-Trichloroethane	ND		ug/L	1.00	1	01/15/08 03:29	SW846 8260B	8012507
Trichloroethene	ND		ug/L	1.00	1	01/15/08 03:29	SW846 8260B	8012507
Trichlorofluoromethane	ND		ug/L	1.00	1	01/15/08 03:29	SW846 8260B	8012507
Vinyl chloride	ND		ug/L	1.00	1	01/15/08 03:29	SW846 8260B	8012507
Surr: 1,2-Dichloroethane-d4 (60-140%)	*103 %*					*01/15/08 03:29*	*SW846 8260B*	*8012507*
Surr: Dibromofluoromethane (75-124%)	*103 %*					*01/15/08 03:29*	*SW846 8260B*	*8012507*
Surr: Toluene-d8 (78-121%)	*97 %*					*01/15/08 03:29*	*SW846 8260B*	*8012507*
Surr: 4-Bromofluorobenzene (79-124%)	*93 %*					*01/15/08 03:29*	*SW846 8260B*	*8012507*

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

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

Client	Hart & Hickman (2162) 2923 South Tyron Street, Suite 100 Charlotte, NC 28203-5449	Work Order:	NRA0822
		Project Name:	GDR-006
		Project Number:	[none]
Attn	Shannon Cottrill	Received:	01/10/08 08:00

ANALYTICAL REPORT

Analyte	Result	Flag	Units	MRL	Dilution Factor	Analysis Date/Time	Method	Batch
Sample ID: NRA0822-07 (MW-6 - Ground Water) Sampled: 01/09/08 09:20								
Volatile Organic Compounds by EPA Method 8260B								
romodichloromethane	ND		ug/L	1.00	1	01/15/08 03:54	SW846 8260B	8012507
romoform	ND		ug/L	1.00	1	01/15/08 03:54	SW846 8260B	8012507
Bromomethane	ND		ug/L	1.00	1	01/15/08 03:54	SW846 8260B	8012507
arbon Tetrachloride	ND		ug/L	1.00	1	01/15/08 03:54	SW846 8260B	8012507
hlorobenzene	ND		ug/L	1.00	1	01/15/08 03:54	SW846 8260B	8012507
Chlorodibromomethane	ND		ug/L	1.00	1	01/15/08 03:54	SW846 8260B	8012507
hloroethane	ND		ug/L	1.00	1	01/15/08 03:54	SW846 8260B	8012507
hloroform	ND		ug/L	1.00	1	01/15/08 03:54	SW846 8260B	8012507
hloromethane	ND		ug/L	1.00	1	01/15/08 03:54	SW846 8260B	8012507
1,4-Dichlorobenzene	ND		ug/L	1.00	1	01/15/08 03:54	SW846 8260B	8012507
,3-Dichlorobenzene	ND		ug/L	1.00	1	01/15/08 03:54	SW846 8260B	8012507
,2-Dichlorobenzene	ND		ug/L	1.00	1	01/15/08 03:54	SW846 8260B	8012507
1,1-Dichloroethane	ND		ug/L	1.00	1	01/15/08 03:54	SW846 8260B	8012507
,2-Dichloroethane	ND		ug/L	1.00	1	01/15/08 03:54	SW846 8260B	8012507
is-1,2-Dichloroethene	ND		ug/L	1.00	1	01/15/08 03:54	SW846 8260B	8012507
1,1-Dichloroethene	ND		ug/L	1.00	1	01/15/08 03:54	SW846 8260B	8012507
trans-1,2-Dichloroethene	ND		ug/L	1.00	1	01/15/08 03:54	SW846 8260B	8012507
2-Dichloropropane	ND		ug/L	1.00	1	01/15/08 03:54	SW846 8260B	8012507
s-1,3-Dichloropropene	ND		ug/L	1.00	1	01/15/08 03:54	SW846 8260B	8012507
trans-1,3-Dichloropropene	ND		ug/L	1.00	1	01/15/08 03:54	SW846 8260B	8012507
lethylene Chloride	ND		ug/L	5.00	1	01/15/08 03:54	SW846 8260B	8012507
,1,2,2-Tetrachloroethane	ND		ug/L	1.00	1	01/15/08 03:54	SW846 8260B	8012507
Tetrachloroethene	ND		ug/L	1.00	1	01/15/08 03:54	SW846 8260B	8012507
1,2-Trichloroethane	ND		ug/L	1.00	1	01/15/08 03:54	SW846 8260B	8012507
1,1-Trichloroethane	ND		ug/L	1.00	1	01/15/08 03:54	SW846 8260B	8012507
richloroethene	ND		ug/L	1.00	1	01/15/08 03:54	SW846 8260B	8012507
Trichlorofluoromethane	ND		ug/L	1.00	1	01/15/08 03:54	SW846 8260B	8012507
inyl chloride	ND		ug/L	1.00	1	01/15/08 03:54	SW846 8260B	8012507
rr: 1,2-Dichloroethane-d4 (60-140%)	*105 %*					*01/15/08 03:54*	*SW846 8260B*	*8012507*
urr: Dibromofluoromethane (75-124%)	*104 %*					*01/15/08 03:54*	*SW846 8260B*	*8012507*
Surr: Toluene-d8 (78-121%)	*96 %*					*01/15/08 03:54*	*SW846 8260B*	*8012507*
rr: 4-Bromofluorobenzene (79-124%)	*94 %*					*01/15/08 03:54*	*SW846 8260B*	*8012507*

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

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

Client	Hart & Hickman (2162) 2923 South Tyron Street, Suite 100 Charlotte, NC 28203-5449	Work Order: Project Name: Project Number:	NRA0822 GDR-006 [none]
Attn	Shannon Cottrill	Received:	01/10/08 08:00

ANALYTICAL REPORT

nalyte	Result	Flag	Units	MRL	Dilution Factor	Analysis Date/Time	Method	Batch
ample ID: NRA0822-08 (MW-7 - Ground Water) Sampled: 01/09/08 10:50								
Volatile Organic Compounds by EPA Method 8260B								
romodichloromethane	ND		ug/L	1.00	1	01/15/08 04:20	SW846 8260B	8012507
romoform	ND		ug/L	1.00	1	01/15/08 04:20	SW846 8260B	8012507
Bromomethane	ND		ug/L	1.00	1	01/15/08 04:20	SW846 8260B	8012507
arbon Tetrachloride	ND		ug/L	1.00	1	01/15/08 04:20	SW846 8260B	8012507
hlorobenzene	ND		ug/L	1.00	1	01/15/08 04:20	SW846 8260B	8012507
Chlorodibromomethane	ND		ug/L	1.00	1	01/15/08 04:20	SW846 8260B	8012507
hloroethane	ND		ug/L	1.00	1	01/15/08 04:20	SW846 8260B	8012507
hloroform	ND		ug/L	1.00	1	01/15/08 04:20	SW846 8260B	8012507
Chloromethane	ND		ug/L	1.00	1	01/15/08 04:20	SW846 8260B	8012507
1,4-Dichlorobenzene	ND		ug/L	1.00	1	01/15/08 04:20	SW846 8260B	8012507
,3-Dichlorobenzene	ND		ug/L	1.00	1	01/15/08 04:20	SW846 8260B	8012507
,2-Dichlorobenzene	ND		ug/L	1.00	1	01/15/08 04:20	SW846 8260B	8012507
1,1-Dichloroethane	ND		ug/L	1.00	1	01/15/08 04:20	SW846 8260B	8012507
,2-Dichloroethane	ND		ug/L	1.00	1	01/15/08 04:20	SW846 8260B	8012507
s-1,2-Dichloroethene	ND		ug/L	1.00	1	01/15/08 04:20	SW846 8260B	8012507
1,1-Dichloroethene	ND		ug/L	1.00	1	01/15/08 04:20	SW846 8260B	8012507
ans-1,2-Dichloroethene	ND		ug/L	1.00	1	01/15/08 04:20	SW846 8260B	8012507
,2-Dichloropropane	ND		ug/L	1.00	1	01/15/08 04:20	SW846 8260B	8012507
is-1,3-Dichloropropene	ND		ug/L	1.00	1	01/15/08 04:20	SW846 8260B	8012507
trans-1,3-Dichloropropene	ND		ug/L	1.00	1	01/15/08 04:20	SW846 8260B	8012507
lethylene Chloride	ND		ug/L	5.00	1	01/15/08 04:20	SW846 8260B	8012507
,1,2,2-Tetrachloroethane	ND		ug/L	1.00	1	01/15/08 04:20	SW846 8260B	8012507
Tetrachloroethene	ND		ug/L	1.00	1	01/15/08 04:20	SW846 8260B	8012507
,1,2-Trichloroethane	ND		ug/L	1.00	1	01/15/08 04:20	SW846 8260B	8012507
,1,1-Trichloroethane	ND		ug/L	1.00	1	01/15/08 04:20	SW846 8260B	8012507
richloroethene	ND		ug/L	1.00	1	01/15/08 04:20	SW846 8260B	8012507
Trichlorofluoromethane	ND		ug/L	1.00	1	01/15/08 04:20	SW846 8260B	8012507
inyl chloride	ND		ug/L	1.00	1	01/15/08 04:20	SW846 8260B	8012507
urr: 1,2-Dichloroethane-d4 (60-140%)	*108 %*					*01/15/08 04:20*	*SW846 8260B*	*8012507*
Surr: Dibromofluoromethane (75-124%)	*107 %*					*01/15/08 04.20*	*SW846 8260B*	*8012507*
urr: Toluene-d8 (78-121%)	*95 %*					*01/15/08 04:20*	*SW846 8260B*	*8012507*
urr: 4-Bromofluorobenzene (79-124%)	*93 %*					*01/15/08 04:20*	*SW846 8260B*	*8012507*

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

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

Client Hart & Hickman (2162)
2923 South Tyron Street, Suite 100
Charlotte, NC 28203-5449
Attn Shannon Cottrill

Work Order: NRA0822
Project Name: GDR-006
Project Number: [none]
Received: 01/10/08 08:00

ANALYTICAL REPORT

ınalyte	Result	Flag	Units	MRL	Dilution Factor	Analysis Date/Time	Method	Batch
ɔample ID: NRA0822-09 (MW-8 - Ground Water) Sampled: 01/09/08 09:15								
ˈ/olatile Organic Compounds by EPA Method 8260B								
romodichloromethane	ND		ug/L	1.00	1	01/15/08 04:45	SW846 8260B	8012507
‿romoform	ND		ug/L	1.00	1	01/15/08 04:45	SW846 8260B	8012507
Bromomethane	ND		ug/L	1.00	1	01/15/08 04:45	SW846 8260B	8012507
arbon Tetrachloride	ND		ug/L	1.00	1	01/15/08 04:45	SW846 8260B	8012507
hlorobenzene	ND		ug/L	1.00	1	01/15/08 04:45	SW846 8260B	8012507
Chlorodibromomethane	ND		ug/L	1.00	1	01/15/08 04:45	SW846 8260B	8012507
hloroethane	ND		ug/L	1.00	1	01/15/08 04:45	SW846 8260B	8012507
hloroform	ND		ug/L	1.00	1	01/15/08 04:45	SW846 8260B	8012507
‿hloromethane	ND		ug/L	1.00	1	01/15/08 04:45	SW846 8260B	8012507
1,4-Dichlorobenzene	ND		ug/L	1.00	1	01/15/08 04:45	SW846 8260B	8012507
3-Dichlorobenzene	ND		ug/L	1.00	1	01/15/08 04:45	SW846 8260B	8012507
2-Dichlorobenzene	ND		ug/L	1.00	1	01/15/08 04:45	SW846 8260B	8012507
1,1-Dichloroethane	ND		ug/L	1.00	1	01/15/08 04:45	SW846 8260B	8012507
2-Dichloroethane	ND		ug/L	1.00	1	01/15/08 04:45	SW846 8260B	8012507
s-1,2-Dichloroethene	ND		ug/L	1.00	1	01/15/08 04:45	SW846 8260B	8012507
ı,1-Dichloroethene	ND		ug/L	1.00	1	01/15/08 04:45	SW846 8260B	8012507
trans-1,2-Dichloroethene	ND		ug/L	1.00	1	01/15/08 04:45	SW846 8260B	8012507
2-Dichloropropane	ND		ug/L	1.00	1	01/15/08 04:45	SW846 8260B	8012507
s-1,3-Dichloropropene	ND		ug/L	1.00	1	01/15/08 04:45	SW846 8260B	8012507
trans-1,3-Dichloropropene	ND		ug/L	1.00	1	01/15/08 04:45	SW846 8260B	8012507
ethylene Chloride	ND		ug/L	5.00	1	01/15/08 04:45	SW846 8260B	8012507
1,2,2-Tetrachloroethane	ND		ug/L	1.00	1	01/15/08 04:45	SW846 8260B	8012507
ı etrachloroethene	**159**		ug/L	1.00	1	01/15/08 04:45	SW846 8260B	8012507
ˈ 1,2-Trichloroethane	ND		ug/L	1.00	1	01/15/08 04:45	SW846 8260B	8012507
1,1-Trichloroethane	ND		ug/L	1.00	1	01/15/08 04:45	SW846 8260B	8012507
richloroethene	**1.66**		ug/L	1.00	1	01/15/08 04:45	SW846 8260B	8012507
Trichlorofluoromethane	ND		ug/L	1.00	1	01/15/08 04:45	SW846 8260B	8012507
inyl chloride	ND		ug/L	1.00	1	01/15/08 04:45	SW846 8260B	8012507
ırr: 1,2-Dichloroethane-d4 (60-140%)	*108 %*					*01/15/08 04:45*	*SW846 8260B*	*8012507*
ɔurr: Dibromofluoromethane (75-124%)	*106 %*					*01/15/08 04:45*	*SW846 8260B*	*8012507*
Surr: Toluene-d8 (78-121%)	*93 %*					*01/15/08 04:45*	*SW846 8260B*	*8012507*
ırr: 4-Bromofluorobenzene (79-124%)	*92 %*					*01/15/08 04:45*	*SW846 8260B*	*8012507*

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
2960 Foster Creighton Road Nashville, TN 37204 * 800-765-0980 * Fax 615-726-3404

Client	Hart & Hickman (2162)	Work Order:	NRA0822
	2923 South Tyron Street, Suite 100	Project Name:	GDR-006
	Charlotte, NC 28203-5449	Project Number:	[none]
Attn	Shannon Cottrill	Received:	01/10/08 08:00

ANALYTICAL REPORT

Analyte	Result	Flag	Units	MRL	Dilution Factor	Analysis Date/Time	Method	Batch
ample ID: NRA0822-10 (MW-9 - Ground Water) Sampled: 01/09/08 09:05								
General Chemistry Parameters								
otal Organic Carbon	ND		mg/L	1.00	1	01/16/08 08:33	SW846 9060A	8012492
Volatile Organic Compounds by EPA Method 8260B								
romodichloromethane	ND		ug/L	1.00	1	01/15/08 05:10	SW846 8260B	8012507
romoform	ND		ug/L	1.00	1	01/15/08 05:10	SW846 8260B	8012507
romomethane	ND		ug/L	1.00	1	01/15/08 05:10	SW846 8260B	8012507
Carbon Tetrachloride	ND		ug/L	1.00	1	01/15/08 05:10	SW846 8260B	8012507
hlorobenzene	ND		ug/L	1.00	1	01/15/08 05:10	SW846 8260B	8012507
hlorodibromomethane	ND		ug/L	1.00	1	01/15/08 05:10	SW846 8260B	8012507
Chloroethane	ND		ug/L	1.00	1	01/15/08 05:10	SW846 8260B	8012507
hloroform	ND		ug/L	1.00	1	01/15/08 05:10	SW846 8260B	8012507
hloromethane	ND		ug/L	1.00	1	01/15/08 05:10	SW846 8260B	8012507
,4-Dichlorobenzene	ND		ug/L	1.00	1	01/15/08 05:10	SW846 8260B	8012507
1,3-Dichlorobenzene	ND		ug/L	1.00	1	01/15/08 05:10	SW846 8260B	8012507
,2-Dichlorobenzene	ND		ug/L	1.00	1	01/15/08 05:10	SW846 8260B	8012507
,1-Dichloroethane	ND		ug/L	1.00	1	01/15/08 05:10	SW846 8260B	8012507
1,2-Dichloroethane	ND		ug/L	1.00	1	01/15/08 05:10	SW846 8260B	8012507
s-1,2-Dichloroethene	**271**		ug/L	20.0	20	01/15/08 16:34	SW846 8260B	8012561
1-Dichloroethene	**5.01**		ug/L	1.00	1	01/15/08 05:10	SW846 8260B	8012507
rans-1,2-Dichloroethene	**1.39**		ug/L	1.00	1	01/15/08 05:10	SW846 8260B	8012507
1,2-Dichloropropane	ND		ug/L	1.00	1	01/15/08 05:10	SW846 8260B	8012507
is-1,3-Dichloropropene	ND		ug/L	1.00	1	01/15/08 05:10	SW846 8260B	8012507
ans-1,3-Dichloropropene	ND		ug/L	1.00	1	01/15/08 05:10	SW846 8260B	8012507
Methylene Chloride	ND		ug/L	5.00	1	01/15/08 05:10	SW846 8260B	8012507
,1,2,2-Tetrachloroethane	ND		ug/L	1.00	1	01/15/08 05:10	SW846 8260B	8012507
etrachloroethene	**2410**		ug/L	20.0	20	01/15/08 16:34	SW846 8260B	8012561
1,1,2-Trichloroethane	ND		ug/L	1.00	1	01/15/08 05:10	SW846 8260B	8012507
1,1,1-Trichloroethane	**1.08**		ug/L	1.00	1	01/15/08 05:10	SW846 8260B	8012507
richloroethene	**297**		ug/L	20.0	20	01/15/08 16:34	SW846 8260B	8012561
richlorofluoromethane	ND		ug/L	1.00	1	01/15/08 05:10	SW846 8260B	8012507
Vinyl chloride	**8.73**		ug/L	1.00	1	01/15/08 05:10	SW846 8260B	8012507
urr: 1,2-Dichloroethane-d4 (60-140%)	*103 %*					*01/15/08 05:10*	*SW846 8260B*	*8012507*
urr: 1,2-Dichloroethane-d4 (60-140%)	*104 %*					*01/15/08 16:34*	*SW846 8260B*	*8012561*
urr: Dibromofluoromethane (75-124%)	*102 %*					*01/15/08 05:10*	*SW846 8260B*	*8012507*
Surr: Dibromofluoromethane (75-124%)	*105 %*					*01/15/08 16:34*	*SW846 8260B*	*8012561*
urr: Toluene-d8 (78-121%)	*95 %*					*01/15/08 05:10*	*SW846 8260B*	*8012507*
urr: Toluene-d8 (78-121%)	*96 %*					*01/15/08 16:34*	*SW846 8260B*	*8012561*
urr: 4-Bromofluorobenzene (79-124%)	*94 %*					*01/15/08 05:10*	*SW846 8260B*	*8012507*
Surr: 4-Bromofluorobenzene (79-124%)	*90 %*					*01/15/08 16:34*	*SW846 8260B*	*8012561*

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

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

Client	Hart & Hickman (2162)	Work Order:	NRA0822
	2923 South Tyron Street, Suite 100	Project Name:	GDR-006
	Charlotte, NC 28203-5449	Project Number:	[none]
Attn	Shannon Cottrill	Received:	01/10/08 08:00

ANALYTICAL REPORT

\nalyte	Result	Flag	Units	MRL	Dilution Factor	Analysis Date/Time	Method	Batch
ɔample ID: NRA0822-11 (MW-9D - Ground Water) Sampled: 01/09/08 09:00								
'olatile Organic Compounds by EPA Method 8260B								
romodichloromethane	ND		ug/L	1.00	1	01/15/08 05:36	SW846 8260B	8012507
‿romoform	ND		ug/L	1.00	1	01/15/08 05:36	SW846 8260B	8012507
Bromomethane	ND		ug/L	1.00	1	01/15/08 05:36	SW846 8260B	8012507
arbon Tetrachloride	ND		ug/L	1.00	1	01/15/08 05:36	SW846 8260B	8012507
hlorobenzene	ND		ug/L	1.00	1	01/15/08 05:36	SW846 8260B	8012507
Chlorodibromomethane	ND		ug/L	1.00	1	01/15/08 05:36	SW846 8260B	8012507
hloroethane	ND		ug/L	1.00	1	01/15/08 05:36	SW846 8260B	8012507
hloroform	ND		ug/L	1.00	1	01/15/08 05:36	SW846 8260B	8012507
◡hloromethane	ND		ug/L	1.00	1	01/15/08 05:36	SW846 8260B	8012507
1,4-Dichlorobenzene	ND		ug/L	1.00	1	01/15/08 05:36	SW846 8260B	8012507
,3-Dichlorobenzene	ND		ug/L	1.00	1	01/15/08 05:36	SW846 8260B	8012507
.2-Dichlorobenzene	ND		ug/L	1.00	1	01/15/08 05:36	SW846 8260B	8012507
1,1-Dichloroethane	ND		ug/L	1.00	1	01/15/08 05:36	SW846 8260B	8012507
,2-Dichloroethane	ND		ug/L	1.00	1	01/15/08 05:36	SW846 8260B	8012507
s-1,2-Dichloroethene	ND		ug/L	1.00	1	01/15/08 05:36	SW846 8260B	8012507
ı,1-Dichloroethene	ND		ug/L	1.00	1	01/15/08 05:36	SW846 8260B	8012507
trans-1,2-Dichloroethene	ND		ug/L	1.00	1	01/15/08 05:36	SW846 8260B	8012507
.2-Dichloropropane	ND		ug/L	1.00	1	01/15/08 05:36	SW846 8260B	8012507
s-1,3-Dichloropropene	ND		ug/L	1.00	1	01/15/08 05:36	SW846 8260B	8012507
trans-1,3-Dichloropropene	ND		ug/L	1.00	1	01/15/08 05:36	SW846 8260B	8012507
lethylene Chloride	ND		ug/L	5.00	1	01/15/08 05:36	SW846 8260B	8012507
.1,2,2-Tetrachloroethane	ND		ug/L	1.00	1	01/15/08 05:36	SW846 8260B	8012507
ı etrachloroethene	ND		ug/L	1.00	1	01/15/08 14:27	SW846 8260B	8012561
' ,1,2-Trichloroethane	ND		ug/L	1.00	1	01/15/08 05:36	SW846 8260B	8012507
.1,1-Trichloroethane	ND		ug/L	1.00	1	01/15/08 05:36	SW846 8260B	8012507
richloroethene	ND		ug/L	1.00	1	01/15/08 05:36	SW846 8260B	8012507
Trichlorofluoromethane	ND		ug/L	1.00	1	01/15/08 05:36	SW846 8260B	8012507
inyl chloride	ND		ug/L	1.00	1	01/15/08 05:36	SW846 8260B	8012507
ırr: 1,2-Dichloroethane-d4 (60-140%)	*105 %*					*01/15/08 05:36*	*SW846 8260B*	*8012507*
ɔurr: 1,2-Dichloroethane-d4 (60-140%)	*106 %*					*01/15/08 14:27*	*SW846 8260B*	*8012561*
Surr: Dibromofluoromethane (75-124%)	*105 %*					*01/15/08 05:36*	*SW846 8260B*	*8012507*
ırr: Dibromofluoromethane (75-124%)	*105 %*					*01/15/08 14:27*	*SW846 8260B*	*8012561*
ırr: Toluene-d8 (78-121%)	*96 %*					*01/15/08 05:36*	*SW846 8260B*	*8012507*
Surr: Toluene-d8 (78-121%)	*96 %*					*01/15/08 14:27*	*SW846 8260B*	*8012561*
ırr: 4-Bromofluorobenzene (79-124%)	*93 %*					*01/15/08 05:36*	*SW846 8260B*	*8012507*
ırr: 4-Bromofluorobenzene (79-124%)	*92 %*					*01/15/08 14:27*	*SW846 8260B*	*8012561*

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

Client	Hart & Hickman (2162) 2923 South Tyron Street, Suite 100 Charlotte, NC 28203-5449	Work Order:	NRA0822
		Project Name:	GDR-006
		Project Number:	[none]
Attn	Shannon Cottrill	Received:	01/10/08 08:00

ANALYTICAL REPORT

Analyte	Result	Flag	Units	MRL	Dilution Factor	Analysis Date/Time	Method	Batch
Sample ID: NRA0822-12 (MW-10 - Ground Water) Sampled: 01/09/08 08:35								
General Chemistry Parameters								
Total Organic Carbon	ND		mg/L	1.00	1	01/16/08 08:33	SW846 9060A	8012492
Volatile Organic Compounds by EPA Method 8260B								
Bromodichloromethane	ND		ug/L	1.00	1	01/15/08 06:01	SW846 8260B	8012507
Bromoform	ND		ug/L	1.00	1	01/15/08 06:01	SW846 8260B	8012507
Bromomethane	ND		ug/L	1.00	1	01/15/08 06:01	SW846 8260B	8012507
Carbon Tetrachloride	ND		ug/L	1.00	1	01/15/08 06:01	SW846 8260B	8012507
Chlorobenzene	ND		ug/L	1.00	1	01/15/08 06:01	SW846 8260B	8012507
Chlorodibromomethane	ND		ug/L	1.00	1	01/15/08 06:01	SW846 8260B	8012507
Chloroethane	ND		ug/L	1.00	1	01/15/08 06:01	SW846 8260B	8012507
Chloroform	ND		ug/L	1.00	1	01/15/08 06:01	SW846 8260B	8012507
Chloromethane	ND		ug/L	1.00	1	01/15/08 06:01	SW846 8260B	8012507
1,4-Dichlorobenzene	ND		ug/L	1.00	1	01/15/08 06:01	SW846 8260B	8012507
1,3-Dichlorobenzene	ND		ug/L	1.00	1	01/15/08 06:01	SW846 8260B	8012507
1,2-Dichlorobenzene	ND		ug/L	1.00	1	01/15/08 06:01	SW846 8260B	8012507
1,1-Dichloroethane	ND		ug/L	1.00	1	01/15/08 06:01	SW846 8260B	8012507
1,2-Dichloroethane	ND		ug/L	1.00	1	01/15/08 06:01	SW846 8260B	8012507
cis-1,2-Dichloroethene	**89.1**		ug/L	1.00	1	01/15/08 06:01	SW846 8260B	8012507
1,1-Dichloroethene	**24.1**		ug/L	1.00	1	01/15/08 06:01	SW846 8260B	8012507
trans-1,2-Dichloroethene	ND		ug/L	1.00	1	01/15/08 06:01	SW846 8260B	8012507
1,2-Dichloropropane	ND		ug/L	1.00	1	01/15/08 06:01	SW846 8260B	8012507
cis-1,3-Dichloropropene	ND		ug/L	1.00	1	01/15/08 06:01	SW846 8260B	8012507
trans-1,3-Dichloropropene	ND		ug/L	1.00	1	01/15/08 06:01	SW846 8260B	8012507
Methylene Chloride	ND		ug/L	5.00	1	01/15/08 06:01	SW846 8260B	8012507
1,1,2,2-Tetrachloroethane	ND		ug/L	1.00	1	01/15/08 06:01	SW846 8260B	8012507
Tetrachloroethene	**3250**		ug/L	20.0	20	01/15/08 16:59	SW846 8260B	8012561
1,1,2-Trichloroethane	ND		ug/L	1.00	1	01/15/08 06:01	SW846 8260B	8012507
1,1,1-Trichloroethane	**10.9**		ug/L	1.00	1	01/15/08 06:01	SW846 8260B	8012507
Trichloroethene	**71.9**		ug/L	1.00	1	01/15/08 06:01	SW846 8260B	8012507
Trichlorofluoromethane	ND		ug/L	1.00	1	01/15/08 06:01	SW846 8260B	8012507
Vinyl chloride	ND		ug/L	1.00	1	01/15/08 06:01	SW846 8260B	8012507
Surr: 1,2-Dichloroethane-d4 (60-140%)	*103 %*					*01/15/08 06:01*	*SW846 8260B*	*8012507*
Surr: 1,2-Dichloroethane-d4 (60-140%)	*104 %*					*01/15/08 16:59*	*SW846 8260B*	*8012561*
Surr: Dibromofluoromethane (75-124%)	*103 %*					*01/15/08 06:01*	*SW846 8260B*	*8012507*
Surr: Dibromofluoromethane (75-124%)	*106 %*					*01/15/08 16:59*	*SW846 8260B*	*8012561*
Surr: Toluene-d8 (78-121%)	*96 %*					*01/15/08 06:01*	*SW846 8260B*	*8012507*
Surr: Toluene-d8 (78-121%)	*95 %*					*01/15/08 16:59*	*SW846 8260B*	*8012561*
Surr: 4-Bromofluorobenzene (79-124%)	*92 %*					*01/15/08 06:01*	*SW846 8260B*	*8012507*
Surr: 4-Bromofluorobenzene (79-124%)	*92 %*					*01/15/08 16:59*	*SW846 8260B*	*8012561*

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
2960 Foster Creighton Road Nashville, TN 37204 * 800-765-0980 * Fax 615-726-3404

Client Hart & Hickman (2162)
2923 South Tyron Street, Suite 100
Charlotte, NC 28203-5449
Attn Shannon Cottrill

Work Order: NRA0822
Project Name: GDR-006
Project Number: [none]
Received: 01/10/08 08:00

ANALYTICAL REPORT

Sample ID: NRA0822-13 (MW-10D - Water) Sampled: 01/09/08 08:30

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Flag	Units	MRL	Dilution Factor	Analysis Date/Time	Method	Batch
ıromodichloromethane	ND		ug/L	1.00	1	01/15/08 06:26	SW846 8260B	8012507
ɹromoform	ND		ug/L	1.00	1	01/15/08 06:26	SW846 8260B	8012507
Bromomethane	ND		ug/L	1.00	1	01/15/08 06:26	SW846 8260B	8012507
:arbon Tetrachloride	ND		ug/L	1.00	1	01/15/08 06:26	SW846 8260B	8012507
:hlorobenzene	ND		ug/L	1.00	1	01/15/08 06:26	SW846 8260B	8012507
Chlorodibromomethane	ND		ug/L	1.00	1	01/15/08 06:26	SW846 8260B	8012507
:hloroethane	ND		ug/L	1.00	1	01/15/08 06:26	SW846 8260B	8012507
:hloroform	ND		ug/L	1.00	1	01/15/08 06:26	SW846 8260B	8012507
Chloromethane	ND		ug/L	1.00	1	01/15/08 06:26	SW846 8260B	8012507
1,4-Dichlorobenzene	ND		ug/L	1.00	1	01/15/08 06:26	SW846 8260B	8012507
,3-Dichlorobenzene	ND		ug/L	1.00	1	01/15/08 06:26	SW846 8260B	8012507
,2-Dichlorobenzene	ND		ug/L	1.00	1	01/15/08 06:26	SW846 8260B	8012507
1,1-Dichloroethane	ND		ug/L	1.00	1	01/15/08 06:26	SW846 8260B	8012507
,2-Dichloroethane	ND		ug/L	1.00	1	01/15/08 06:26	SW846 8260B	8012507
is-1,2-Dichloroethene	ND		ug/L	1.00	1	01/15/08 06:26	SW846 8260B	8012507
ı,1-Dichloroethene	ND		ug/L	1.00	1	01/15/08 06:26	SW846 8260B	8012507
-ans-1,2-Dichloroethene	ND		ug/L	1.00	1	01/15/08 06:26	SW846 8260B	8012507
,2-Dichloropropane	ND		ug/L	1.00	1	01/15/08 06:26	SW846 8260B	8012507
is-1,3-Dichloropropene	ND		ug/L	1.00	1	01/15/08 06:26	SW846 8260B	8012507
trans-1,3-Dichloropropene	ND		ug/L	1.00	1	01/15/08 06:26	SW846 8260B	8012507
lethylene Chloride	ND		ug/L	5.00	1	01/15/08 06:26	SW846 8260B	8012507
,1,2,2-Tetrachloroethane	ND		ug/L	1.00	1	01/15/08 06:26	SW846 8260B	8012507
Tetrachloroethene	**4.09**		ug/L	1.00	1	01/15/08 14:52	SW846 8260B	8012561
',1,2-Trichloroethane	ND		ug/L	1.00	1	01/15/08 06:26	SW846 8260B	8012507
,1,1-Trichloroethane	ND		ug/L	1.00	1	01/15/08 06:26	SW846 8260B	8012507
richloroethene	ND		ug/L	1.00	1	01/15/08 06:26	SW846 8260B	8012507
Trichlorofluoromethane	ND		ug/L	1.00	1	01/15/08 06:26	SW846 8260B	8012507
'inyl chloride	ND		ug/L	1.00	1	01/15/08 06:26	SW846 8260B	8012507
urr: 1,2-Dichloroethane-d4 (60-140%)	*106 %*					*01/15/08 06:26*	*SW846 8260B*	*8012507*
Surr: 1,2-Dichloroethane-d4 (60-140%)	*105 %*					*01/15/08 14:52*	*SW846 8260B*	*8012561*
Surr. Dibromofluoromethane (75-124%)	*106 %*					*01/15/08 06:26*	*SW846 8260B*	*8012507*
urr: Dibromofluoromethane (75-124%)	*105 %*					*01/15/08 14:52*	*SW846 8260B*	*8012561*
urr: Toluene-d8 (78-121%)	*94 %*					*01/15/08 06:26*	*SW846 8260B*	*8012507*
Surr. Toluene-d8 (78-121%)	*95 %*					*01/15/08 14:52*	*SW846 8260B*	*8012561*
urr: 4-Bromofluorobenzene (79-124%)	*91 %*					*01/15/08 06:26*	*SW846 8260B*	*8012507*
urr: 4-Bromofluorobenzene (79-124%)	*90 %*					*01/15/08 14:52*	*SW846 8260B*	*8012561*

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
2960 Foster Creighton Road Nashville, TN 37204 * 800-765-0980 * Fax 615-726-3404

Client	Hart & Hickman (2162) 2923 South Tyron Street, Suite 100 Charlotte, NC 28203-5449	Work Order: Project Name: Project Number:	NRA0822 GDR-006 [none]
Attn	Shannon Cottrill	Received:	01/10/08 08:00

ANALYTICAL REPORT

nalyte	Result	Flag	Units	MRL	Dilution Factor	Analysis Date/Time	Method	Batch
ample ID: NRA0822-14 (MW-11 - Water) Sampled: 01/09/08 08:40								
olatile Organic Compounds by EPA Method 8260B								
romodichloromethane	ND		ug/L	1.00	1	01/15/08 06:52	SW846 8260B	8012507
romoform	ND		ug/L	1.00	1	01/15/08 06:52	SW846 8260B	8012507
Bromomethane	ND		ug/L	1.00	1	01/15/08 06:52	SW846 8260B	8012507
ırbon Tetrachloride	ND		ug/L	1.00	1	01/15/08 06:52	SW846 8260B	8012507
ılorobenzene	ND		ug/L	1.00	1	01/15/08 06:52	SW846 8260B	8012507
Chlorodibromomethane	ND		ug/L	1.00	1	01/15/08 06:52	SW846 8260B	8012507
hloroethane	ND		ug/L	1.00	1	01/15/08 06:52	SW846 8260B	8012507
hloroform	ND		ug/L	1.00	1	01/15/08 06:52	SW846 8260B	8012507
hloromethane	ND		ug/L	1.00	1	01/15/08 06:52	SW846 8260B	8012507
1 4-Dichlorobenzene	ND		ug/L	1.00	1	01/15/08 06:52	SW846 8260B	8012507
3-Dichlorobenzene	ND		ug/L	1.00	1	01/15/08 06:52	SW846 8260B	8012507
2-Dichlorobenzene	ND		ug/L	1.00	1	01/15/08 06:52	SW846 8260B	8012507
1,1-Dichloroethane	ND		ug/L	1.00	1	01/15/08 06:52	SW846 8260B	8012507
2-Dichloroethane	ND		ug/L	1.00	1	01/15/08 06:52	SW846 8260B	8012507
s-1,2-Dichloroethene	ND		ug/L	1.00	1	01/15/08 06:52	SW846 8260B	8012507
ı,1-Dichloroethene	ND		ug/L	1.00	1	01/15/08 06:52	SW846 8260B	8012507
ans-1,2-Dichloroethene	ND		ug/L	1.00	1	01/15/08 06:52	SW846 8260B	8012507
2-Dichloropropane	ND		ug/L	1.00	1	01/15/08 06:52	SW846 8260B	8012507
s-1,3-Dichloropropene	ND		ug/L	1.00	1	01/15/08 06:52	SW846 8260B	8012507
trans-1,3-Dichloropropene	ND		ug/L	1.00	1	01/15/08 06:52	SW846 8260B	8012507
ethylene Chloride	ND		ug/L	5.00	1	01/15/08 06:52	SW846 8260B	8012507
1,2,2-Tetrachloroethane	ND		ug/L	1.00	1	01/15/08 06:52	SW846 8260B	8012507
Tetrachloroethene	ND		ug/L	1.00	1	01/15/08 06:52	SW846 8260B	8012507
1,2-Trichloroethane	ND		ug/L	1.00	1	01/15/08 06:52	SW846 8260B	8012507
1,1-Trichloroethane	ND		ug/L	1.00	1	01/15/08 06:52	SW846 8260B	8012507
ichloroethene	ND		ug/L	1.00	1	01/15/08 06:52	SW846 8260B	8012507
Trichlorofluoromethane	ND		ug/L	1.00	1	01/15/08 06:52	SW846 8260B	8012507
nyl chloride	ND		ug/L	1.00	1	01/15/08 06:52	SW846 8260B	8012507
rr: 1,2-Dichloroethane-d4 (60-140%)	*107 %*					*01/15/08 06:52*	*SW846 8260B*	*8012507*
urr: Dibromofluoromethane (75-124%)	*107 %*					*01/15/08 06:52*	*SW846 8260B*	*8012507*
Surr: Toluene-d8 (78-121%)	*94 %*					*01/15/08 06:52*	*SW846 8260B*	*8012507*
rr: 4-Bromofluorobenzene (79-124%)	*91 %*					*01/15/08 06:52*	*SW846 8260B*	*8012507*

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

Client	Hart & Hickman (2162) 2923 South Tyron Street, Suite 100 Charlotte, NC 28203-5449	Work Order: Project Name: Project Number:	NRA0822 GDR-006 [none]
Attn	Shannon Cottrill	Received:	01/10/08 08:00

ANALYTICAL REPORT

nalyte	Result	Flag	Units	MRL	Dilution Factor	Analysis Date/Time	Method	Batch
ample ID: NRA0822-15 (SW-1 - Water) Sampled: 01/09/08 08:45								
Volatile Organic Compounds by EPA Method 8260B								
romodichloromethane	ND		ug/L	1.00	1	01/15/08 07:17	SW846 8260B	8012507
romoform	ND		ug/L	1.00	1	01/15/08 07:17	SW846 8260B	8012507
Bromomethane	ND		ug/L	1.00	1	01/15/08 07:17	SW846 8260B	8012507
arbon Tetrachloride	ND		ug/L	1.00	1	01/15/08 07:17	SW846 8260B	8012507
hlorobenzene	ND		ug/L	1.00	1	01/15/08 07:17	SW846 8260B	8012507
Chlorodibromomethane	ND		ug/L	1.00	1	01/15/08 07:17	SW846 8260B	8012507
hloroethane	ND		ug/L	1.00	1	01/15/08 07:17	SW846 8260B	8012507
hloroform	ND		ug/L	1.00	1	01/15/08 07:17	SW846 8260B	8012507
hloromethane	ND		ug/L	1.00	1	01/15/08 07:17	SW846 8260B	8012507
1,4-Dichlorobenzene	ND		ug/L	1.00	1	01/15/08 07:17	SW846 8260B	8012507
,3-Dichlorobenzene	ND		ug/L	1.00	1	01/15/08 07:17	SW846 8260B	8012507
,2-Dichlorobenzene	ND		ug/L	1.00	1	01/15/08 07:17	SW846 8260B	8012507
1,1-Dichloroethane	ND		ug/L	1.00	1	01/15/08 07:17	SW846 8260B	8012507
2-Dichloroethane	ND		ug/L	1.00	1	01/15/08 07:17	SW846 8260B	8012507
s-1,2-Dichloroethene	ND		ug/L	1.00	1	01/15/08 07:17	SW846 8260B	8012507
,1-Dichloroethene	ND		ug/L	1.00	1	01/15/08 07:17	SW846 8260B	8012507
trans-1,2-Dichloroethene	ND		ug/L	1.00	1	01/15/08 07:17	SW846 8260B	8012507
2-Dichloropropane	ND		ug/L	1.00	1	01/15/08 07:17	SW846 8260B	8012507
s-1,3-Dichloropropene	ND		ug/L	1.00	1	01/15/08 07:17	SW846 8260B	8012507
trans-1,3-Dichloropropene	ND		ug/L	1.00	1	01/15/08 07:17	SW846 8260B	8012507
lethylene Chloride	ND		ug/L	5.00	1	01/15/08 07:17	SW846 8260B	8012507
,1,2,2-Tetrachloroethane	ND		ug/L	1.00	1	01/15/08 07:17	SW846 8260B	8012507
etrachloroethene	ND		ug/L	1.00	1	01/15/08 07:17	SW846 8260B	8012507
,1,2-Trichloroethane	ND		ug/L	1.00	1	01/15/08 07:17	SW846 8260B	8012507
,1,1-Trichloroethane	ND		ug/L	1.00	1	01/15/08 07:17	SW846 8260B	8012507
richloroethene	ND		ug/L	1.00	1	01/15/08 07:17	SW846 8260B	8012507
Trichlorofluoromethane	ND		ug/L	1.00	1	01/15/08 07:17	SW846 8260B	8012507
inyl chloride	ND		ug/L	1.00	1	01/15/08 07:17	SW846 8260B	8012507
rr: 1,2-Dichloroethane-d4 (60-140%)	*108 %*					*01/15/08 07:17*	*SW846 8260B*	*8012507*
urr: Dibromofluoromethane (75-124%)	*104 %*					*01/15/08 07:17*	*SW846 8260B*	*8012507*
Surr: Toluene-d8 (78-121%)	*94 %*					*01/15/08 07:17*	*SW846 8260B*	*8012507*
rr: 4-Bromofluorobenzene (79-124%)	*93 %*					*01/15/08 07:17*	*SW846 8260B*	*8012507*

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

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

Client	Hart & Hickman (2162)	Work Order:	NRA0822
	2923 South Tyron Street, Suite 100	Project Name:	GDR-006
	Charlotte, NC 28203-5449	Project Number:	[none]
Attn	Shannon Cottrill	Received:	01/10/08 08:00

ANALYTICAL REPORT

Analyte	Result	Flag	Units	MRL	Dilution Factor	Analysis Date/Time	Method	Batch
Sample ID: NRA0822-16 (Trip Blank - Water) Sampled: 01/09/08 00:01								
Volatile Organic Compounds by EPA Method 8260B								
romodichloromethane	ND		ug/L	1.00	1	01/16/08 17:49	SW846 8260B	8012740
romoform	ND		ug/L	1.00	1	01/16/08 17:49	SW846 8260B	8012740
Bromomethane	ND		ug/L	1.00	1	01/16/08 17:49	SW846 8260B	8012740
'arbon Tetrachloride	ND		ug/L	1.00	1	01/16/08 17:49	SW846 8260B	8012740
'hlorobenzene	ND		ug/L	1.00	1	01/16/08 17:49	SW846 8260B	8012740
Chlorodibromomethane	ND		ug/L	1.00	1	01/16/08 17:49	SW846 8260B	8012740
'hloroethane	ND		ug/L	1.00	1	01/16/08 17:49	SW846 8260B	8012740
'hloroform	ND		ug/L	1.00	1	01/16/08 17:49	SW846 8260B	8012740
Chloromethane	ND		ug/L	1.00	1	01/16/08 17:49	SW846 8260B	8012740
1,4-Dichlorobenzene	ND		ug/L	1.00	1	01/16/08 17:49	SW846 8260B	8012740
,3-Dichlorobenzene	ND		ug/L	1.00	1	01/16/08 17:49	SW846 8260B	8012740
,2-Dichlorobenzene	ND		ug/L	1.00	1	01/16/08 17:49	SW846 8260B	8012740
1,1-Dichloroethane	ND		ug/L	1.00	1	01/16/08 17:49	SW846 8260B	8012740
2-Dichloroethane	ND		ug/L	1.00	1	01/16/08 17:49	SW846 8260B	8012740
s-1,2-Dichloroethene	ND		ug/L	1.00	1	01/16/08 17:49	SW846 8260B	8012740
1,1-Dichloroethene	ND		ug/L	1.00	1	01/16/08 17:49	SW846 8260B	8012740
trans-1,2-Dichloroethene	ND		ug/L	1.00	1	01/16/08 17:49	SW846 8260B	8012740
2-Dichloropropane	ND		ug/L	1.00	1	01/16/08 17:49	SW846 8260B	8012740
s-1,3-Dichloropropene	ND		ug/L	1.00	1	01/16/08 17:49	SW846 8260B	8012740
trans-1,3-Dichloropropene	ND		ug/L	1.00	1	01/16/08 17:49	SW846 8260B	8012740
1ethylene Chloride	ND		ug/L	5.00	1	01/16/08 17:49	SW846 8260B	8012740
,1,2,2-Tetrachloroethane	ND		ug/L	1.00	1	01/16/08 17:49	SW846 8260B	8012740
etrachloroethene	ND		ug/L	1.00	1	01/16/08 17:49	SW846 8260B	8012740
1,1,2-Trichloroethane	ND		ug/L	1.00	1	01/16/08 17:49	SW846 8260B	8012740
,1,1-Trichloroethane	ND		ug/L	1.00	1	01/16/08 17:49	SW846 8260B	8012740
richloroethene	ND		ug/L	1.00	1	01/16/08 17:49	SW846 8260B	8012740
Trichlorofluoromethane	ND		ug/L	1.00	1	01/16/08 17:49	SW846 8260B	8012740
'inyl chloride	ND		ug/L	1.00	1	01/16/08 17:49	SW846 8260B	8012740
urr: 1,2-Dichloroethane-d4 (60-140%)	*94 %*					*01/16/08 17:49*	*SW846 8260B*	*8012740*
Surr: Dibromofluoromethane (75-124%)	*96 %*					*01/16/08 17:49*	*SW846 8260B*	*8012740*
Surr: Toluene-d8 (78-121%)	*97 %*					*01/16/08 17:49*	*SW846 8260B*	*8012740*
urr: 4-Bromofluorobenzene (79-124%)	*103 %*					*01/16/08 17:49*	*SW846 8260B*	*8012740*

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
2960 Foster Creighton Road Nashville, TN 37204 * 800-765-0980 * Fax 615-726-3404

Client	Hart & Hickman (2162) 2923 South Tyron Street, Suite 100 Charlotte, NC 28203-5449	Work Order:	NRA0822
		Project Name:	GDR-006
		Project Number:	[none]
Attn	Shannon Cottrill	Received:	01/10/08 08:00

PROJECT QUALITY CONTROL DATA
Blank

nalyte	Blank Value	Q	Units	Q C Batch	Lab Number	Analyzed Date/Time
eneral Chemistry Parameters						
)12492-BLK1						
otal Organic Carbon	<0 500		mg/L	8012492	8012492-BLK1	01/16/08 08.33
olatile Organic Compounds by EPA Method 8260B						
)12507-BLK1						
Acetone	<25.0		ug/L	8012507	8012507-BLK1	01/15/08 00:57
3enzene	<0 270		ug/L	8012507	8012507-BLK1	01/15/08 00 57
3romobenzene	<0 360		ug/L	8012507	8012507-BLK1	01/15/08 00 57
3romochloromethane	<0 400		ug/L	8012507	8012507-BLK1	01/15/08 00.57
Bromodichloromethane	<0 350		ug/L	8012507	8012507-BLK1	01/15/08 00 57
3romoform	<0 430		ug/L	8012507	8012507-BLK1	01/15/08 00:57
3romomethane	<0 420		ug/L	8012507	8012507-BLK1	01/15/08 00:57
2-Butanone	<2.40		ug/L	8012507	8012507-BLK1	01/15/08 00:57
ec-Butylbenzene	<0.140		ug/L	8012507	8012507-BLK1	01/15/08 00 57
-Butylbenzene	<0.280		ug/L	8012507	8012507-BLK1	01/15/08 00 57
tert-Butylbenzene	<0.330		ug/L	8012507	8012507-BLK1	01/15/08 00.57
Carbon disulfide	<0 380		ug/L	8012507	8012507-BLK1	01/15/08 00 57
Carbon Tetrachloride	<0 350		ug/L	8012507	8012507-BLK1	01/15/08 00:57
Chlorobenzene	<0 180		ug/L	8012507	8012507-BLK1	01/15/08 00:57
Chlorodibromomethane	<0.280		ug/L	8012507	8012507-BLK1	01/15/08 00.57
Chloroethane	<0.450		ug/L	8012507	8012507-BLK1	01/15/08 00:57
Chloroform	<0 280		ug/L	8012507	8012507-BLK1	01/15/08 00.57
Chloromethane	<0 380		ug/L	8012507	8012507-BLK1	01/15/08 00:57
-Chlorotoluene	<0 300		ug/L	8012507	8012507-BLK1	01/15/08 00:57
-Chlorotoluene	<0 330		ug/L	8012507	8012507-BLK1	01/15/08 00:57
1,2-Dibromo-3-chloropropane	<0 860		ug/L	8012507	8012507-BLK1	01/15/08 00:57
1,2-Dibromoethane (EDB)	<0 390		ug/L	8012507	8012507-BLK1	01/15/08 00.57
Dibromomethane	<0 350		ug/L	8012507	8012507-BLK1	01/15/08 00 57
,4-Dichlorobenzene	<0 380		ug/L	8012507	8012507-BLK1	01/15/08 00 57
1,3-Dichlorobenzene	<0.350		ug/L	8012507	8012507-BLK1	01/15/08 00:57
,2-Dichlorobenzene	<0 500		ug/L	8012507	8012507-BLK1	01/15/08 00 57
Dichlorodifluoromethane	<0.460		ug/L	8012507	8012507-BLK1	01/15/08 00 57
1,1-Dichloroethane	<0.540		ug/L	8012507	8012507-BLK1	01/15/08 00 57
,2-Dichloroethane	<0 370		ug/L	8012507	8012507-BLK1	01/15/08 00:57
is-1,2-Dichloroethene	<0 390		ug/L	8012507	8012507-BLK1	01/15/08 00:57
1,1-Dichloroethene	<0 340		ug/L	8012507	8012507-BLK1	01/15/08 00.57
trans-1,2-Dichloroethene	<0 470		ug/L	8012507	8012507-BLK1	01/15/08 00 57
,3-Dichloropropane	<0 290		ug/L	8012507	8012507-BLK1	01/15/08 00 57
,2-Dichloropropane	<0 320		ug/L	8012507	8012507-BLK1	01/15/08 00:57
2,2-Dichloropropane	<0 420		ug/L	8012507	8012507-BLK1	01/15/08 00 57
is-1,3-Dichloropropene	<0 290		ug/L	8012507	8012507-BLK1	01/15/08 00 57
ans-1,3-Dichloropropene	<0 330		ug/L	8012507	8012507-BLK1	01/15/08 00:57

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

Client	Hart & Hickman (2162) 2923 South Tyron Street, Suite 100 Charlotte, NC 28203-5449	Work Order: Project Name: Project Number:	NRA0822 GDR-006 [none]
Attn	Shannon Cottrill	Received:	01/10/08 08:00

PROJECT QUALITY CONTROL DATA
Blank - Cont.

Analyte	Blank Value	Q	Units	Q.C. Batch	Lab Number	Analyzed Date/Time
Volatile Organic Compounds by EPA Method 8260B						
8012507-BLK1						
1,1-Dichloropropene	<0.310		ug/L	8012507	8012507-BLK1	01/15/08 00:57
Ethylbenzene	<0.240		ug/L	8012507	8012507-BLK1	01/15/08 00:57
Hexachlorobutadiene	<0.910		ug/L	8012507	8012507-BLK1	01/15/08 00:57
2-Hexanone	<16.7		ug/L	8012507	8012507-BLK1	01/15/08 00:57
Isopropylbenzene	<0.300		ug/L	8012507	8012507-BLK1	01/15/08 00:57
p-Isopropyltoluene	<0.220		ug/L	8012507	8012507-BLK1	01/15/08 00:57
Methyl tert-Butyl Ether	<0.420		ug/L	8012507	8012507-BLK1	01/15/08 00:57
Methylene Chloride	<0.830		ug/L	8012507	8012507-BLK1	01/15/08 00:57
4-Methyl-2-pentanone	<3.49		ug/L	8012507	8012507-BLK1	01/15/08 00:57
Naphthalene	<0.540		ug/L	8012507	8012507-BLK1	01/15/08 00:57
n-Propylbenzene	<0.290		ug/L	8012507	8012507-BLK1	01/15/08 00:57
Styrene	<0.330		ug/L	8012507	8012507-BLK1	01/15/08 00:57
1,1,1,2-Tetrachloroethane	<0.290		ug/L	8012507	8012507-BLK1	01/15/08 00:57
1,1,2,2-Tetrachloroethane	<0.290		ug/L	8012507	8012507-BLK1	01/15/08 00:57
Tetrachloroethene	<0.230		ug/L	8012507	8012507-BLK1	01/15/08 00:57
Toluene	<0.280		ug/L	8012507	8012507-BLK1	01/15/08 00:57
1,2,3-Trichlorobenzene	<0.940		ug/L	8012507	8012507-BLK1	01/15/08 00:57
1,2,4-Trichlorobenzene	<0.500		ug/L	8012507	8012507-BLK1	01/15/08 00:57
1,1,2-Trichloroethane	<0.400		ug/L	8012507	8012507-BLK1	01/15/08 00:57
1,1,1-Trichloroethane	<0.370		ug/L	8012507	8012507-BLK1	01/15/08 00:57
Trichloroethene	<0.230		ug/L	8012507	8012507-BLK1	01/15/08 00:57
Trichlorofluoromethane	<0.350		ug/L	8012507	8012507-BLK1	01/15/08 00:57
1,2,3-Trichloropropane	<0.290		ug/L	8012507	8012507-BLK1	01/15/08 00:57
1,3,5-Trimethylbenzene	<0.160		ug/L	8012507	8012507-BLK1	01/15/08 00:57
1,2,4-Trimethylbenzene	<0.170		ug/L	8012507	8012507-BLK1	01/15/08 00:57
Vinyl chloride	<0.290		ug/L	8012507	8012507-BLK1	01/15/08 00:57
Xylenes, total	<0.860		ug/L	8012507	8012507-BLK1	01/15/08 00:57
Surrogate: 1,2-Dichloroethane-d4	100%			8012507	8012507-BLK1	01/15/08 00:57
Surrogate: Dibromofluoromethane	100%			8012507	8012507-BLK1	01/15/08 00:57
Surrogate: Toluene-d8	101%			8012507	8012507-BLK1	01/15/08 00:57
Surrogate: 4-Bromofluorobenzene	95%			8012507	8012507-BLK1	01/15/08 00:57
8012561-BLK1						
Bromodichloromethane	<0.350		ug/L	8012561	8012561-BLK1	01/15/08 13:36
Bromoform	<0.430		ug/L	8012561	8012561-BLK1	01/15/08 13:36
Bromomethane	<0.420		ug/L	8012561	8012561-BLK1	01/15/08 13:36
Carbon Tetrachloride	<0.350		ug/L	8012561	8012561-BLK1	01/15/08 13:36
Chlorobenzene	<0.180		ug/L	8012561	8012561-BLK1	01/15/08 13:36
Chlorodibromomethane	<0.280		ug/L	8012561	8012561-BLK1	01/15/08 13:36
Chloroethane	<0.450		ug/L	8012561	8012561-BLK1	01/15/08 13:36
Chloroform	<0.280		ug/L	8012561	8012561-BLK1	01/15/08 13:36
Chloromethane	<0.380		ug/L	8012561	8012561-BLK1	01/15/08 13:36

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

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

Client	Hart & Hickman (2162) 2923 South Tyron Street, Suite 100 Charlotte, NC 28203-5449	Work Order: Project Name: Project Number:	NRA0822 GDR-006 [none]
Attn	Shannon Cottrill	Received:	01/10/08 08:00

PROJECT QUALITY CONTROL DATA
Blank - Cont.

nalyte	Blank Value	Q	Units	Q C Batch	Lab Number	Analyzed Date/Time
Volatile Organic Compounds by EPA Method 8260B						
012561-BLK1						
1,4-Dichlorobenzene	<0 380		ug/L	8012561	8012561-BLK1	01/15/08 13:36
1,3-Dichlorobenzene	<0 350		ug/L	8012561	8012561-BLK1	01/15/08 13 36
,2-Dichlorobenzene	<0 500		ug/L	8012561	8012561-BLK1	01/15/08 13.36
,1-Dichloroethane	<0 540		ug/L	8012561	8012561-BLK1	01/15/08 13 36
1,2-Dichloroethane	<0 370		ug/L	8012561	8012561-BLK1	01/15/08 13:36
cis-1,2-Dichloroethene	<0 390		ug/L	8012561	8012561-BLK1	01/15/08 13 36
,1-Dichloroethene	<0.340		ug/L	8012561	8012561-BLK1	01/15/08 13 36
trans-1,2-Dichloroethene	<0 470		ug/L	8012561	8012561-BLK1	01/15/08 13:36
1,2-Dichloropropane	<0.320		ug/L	8012561	8012561-BLK1	01/15/08 13 36
cis-1,3-Dichloropropene	<0.290		ug/L	8012561	8012561-BLK1	01/15/08 13 36
rans-1,3-Dichloropropene	<0 330		ug/L	8012561	8012561-BLK1	01/15/08 13 36
Methylene Chloride	<0 830		ug/L	8012561	8012561-BLK1	01/15/08 13 36
,1,2,2-Tetrachloroethane	<0 290		ug/L	8012561	8012561-BLK1	01/15/08 13 36
Tetrachloroethene	<0 230		ug/L	8012561	8012561-BLK1	01/15/08 13.36
1,1,2-Trichloroethane	<0 400		ug/L	8012561	8012561-BLK1	01/15/08 13 36
1,1,1-Trichloroethane	<0.370		ug/L	8012561	8012561-BLK1	01/15/08 13:36
Trichloroethene	<0 230		ug/L	8012561	8012561-BLK1	01/15/08 13 36
Trichlorofluoromethane	<0 350		ug/L	8012561	8012561-BLK1	01/15/08 13 36
Vinyl chloride	<0.290		ug/L	8012561	8012561-BLK1	01/15/08 13:36
Surrogate. 1,2-Dichloroethane-d4	104%			8012561	8012561-BLK1	01/15/08 13:36
Surrogate: Dibromofluoromethane	104%			8012561	8012561-BLK1	01/15/08 13:36
Surrogate: Toluene-d8	97%			8012561	8012561-BLK1	01/15/08 13:36
Surrogate: 4-Bromofluorobenzene	92%			8012561	8012561-BLK1	01/15/08 13:36
8012740-BLK1						
Bromodichloromethane	<0.350		ug/L	8012740	8012740-BLK1	01/16/08 14 33
Bromoform	<0 430		ug/L	8012740	8012740-BLK1	01/16/08 14:33
Bromomethane	<0 420		ug/L	8012740	8012740-BLK1	01/16/08 14:33
Carbon Tetrachloride	<0 350		ug/L	8012740	8012740-BLK1	01/16/08 14 33
Chlorobenzene	<0 180		ug/L	8012740	8012740-BLK1	01/16/08 14 33
Chlorodibromomethane	<0.280		ug/L	8012740	8012740-BLK1	01/16/08 14:33
Chloroethane	<0 450		ug/L	8012740	8012740-BLK1	01/16/08 14:33
Chloroform	<0 280		ug/L	8012740	8012740-BLK1	01/16/08 14:33
Chloromethane	<0 380		ug/L	8012740	8012740-BLK1	01/16/08 14 33
1,4-Dichlorobenzene	<0 380		ug/L	8012740	8012740-BLK1	01/16/08 14 33
1,3-Dichlorobenzene	<0 350		ug/L	8012740	8012740-BLK1	01/16/08 14 33
,2-Dichlorobenzene	<0 500		ug/L	8012740	8012740-BLK1	01/16/08 14 33
,1-Dichloroethane	<0 540		ug/L	8012740	8012740-BLK1	01/16/08 14 33
1,2-Dichloroethane	<0 370		ug/L	8012740	8012740-BLK1	01/16/08 14 33
cis-1,2-Dichloroethene	<0 390		ug/L	8012740	8012740-BLK1	01/16/08 14 33
,1-Dichloroethene	<0.340		ug/L	8012740	8012740-BLK1	01/16/08 14:33
trans-1,2-Dichloroethene	<0 470		ug/L	8012740	8012740-BLK1	01/16/08 14:33

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THE LEADER IN ENVIRONMENTAL TESTING

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

Client	Hart & Hickman (2162) 2923 South Tyron Street, Suite 100 Charlotte, NC 28203-5449	Work Order:	NRA0822
		Project Name:	GDR-006
		Project Number:	[none]
Attn	Shannon Cottrill	Received:	01/10/08 08:00

PROJECT QUALITY CONTROL DATA
Blank - Cont.

ɪalyte	Blank Value	Q	Units	Q C Batch	Lab Number	Analyzed Date/Time
ᵛolatile Organic Compounds by EPA Method 8260B						
)12740-BLK1						
,2-Dichloropropane	<0 320		ug/L	8012740	8012740-BLK1	01/16/08 14 33
cis-1,3-Dichloropropene	<0.290		ug/L	8012740	8012740-BLK1	01/16/08 14:33
·ans-1,3-Dichloropropene	<0 330		ug/L	8012740	8012740-BLK1	01/16/08 14 33
⁄ethylene Chloride	1 54		ug/L	8012740	8012740-BLK1	01/16/08 14.33
1,1,2,2-Tetrachloroethane	<0 290		ug/L	8012740	8012740-BLK1	01/16/08 14:33
'etrachloroethene	<0 230		ug/L	8012740	8012740-BLK1	01/16/08 14:33
,1,2-Trichloroethane	<0 400		ug/L	8012740	8012740-BLK1	01/16/08 14:33
.,1,1-Trichloroethane	<0.370		ug/L	8012740	8012740-BLK1	01/16/08 14:33
Trichloroethene	<0 230		ug/L	8012740	8012740-BLK1	01/16/08 14:33
'richlorofluoromethane	<0 350		ug/L	8012740	8012740-BLK1	01/16/08 14 33
ʼinyl chloride	<0 290		ug/L	8012740	8012740-BLK1	01/16/08 14.33
Surrogate: 1,2-Dichloroethane-d4	92%			8012740	8012740-BLK1	01/16/08 14 33
ırrogate Dibromofluoromethane	94%			8012740	8012740-BLK1	01/16/08 14 33
ırrogate. Toluene-d8	96%			8012740	8012740-BLK1	01/16/08 14 33
Surrogate. 4-Bromofluorobenzene	109%			8012740	8012740-BLK1	01/16/08 14 33

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THE LEADER IN ENVIRONMENTAL TESTING

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

Client	Hart & Hickman (2162) 2923 South Tyron Street, Suite 100 Charlotte, NC 28203-5449	Work Order: Project Name: Project Number:	NRA0822 GDR-006 [none]
Attn	Shannon Cottrill	Received:	01/10/08 08:00

PROJECT QUALITY CONTROL DATA

Duplicate

nalyte	Orig. Val	Duplicate	Q	Units	RPD	Limit	Batch	Sample Duplicated	Analyzed Date/Time
ieneral Chemistry Parameters									
012492-DUP1									
ɪ'otal Organic Carbon	ND	ND		mg/L		20	8012492	NRA0822-12	01/16/08 08:33

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THE LEADER IN ENVIRONMENTAL TESTING
2960 Foster Creighton Road Nashville, TN 37204 * 800-765-0980 * Fax 615-726-3404

Client	Hart & Hickman (2162) 2923 South Tyron Street, Suite 100 Charlotte, NC 28203-5449	Work Order:	NRA0822
		Project Name:	GDR-006
		Project Number:	[none]
Attn	Shannon Cottrill	Received:	01/10/08 08:00

PROJECT QUALITY CONTROL DATA
LCS

nalyte	Known Val	Analyzed Val	Q	Units	% Rec	Target Range	Batch	Analyzed Date/Time
ˆeneral Chemistry Parameters								
012492-BS1								
'otal Organic Carbon	200	193		ug/mL	96%	90 - 110	8012492	01/16/08 08 33
'olatile Organic Compounds by EPA Method 8260B								
012507-BS1								
Acetone	250	286		ug/L	115%	62 - 150	8012507	01/14/08 23 16
3enzene	50 0	51.5		ug/L	103%	80 - 137	8012507	01/14/08 23·16
3romobenzene	50.0	50 7		ug/L	101%	74 - 131	8012507	01/14/08 23 16
3romochloromethane	50 0	57 3		ug/L	115%	80 - 128	8012507	01/14/08 23 16
Bromodichloromethane	50 0	52 5		ug/L	105%	80 - 129	8012507	01/14/08 23 16
3romoform	50.0	48 1		ug/L	96%	69 - 127	8012507	01/14/08 23 16
3romomethane	50.0	53 9		ug/L	108%	62 - 148	8012507	01/14/08 23.16
2-Butanone	250	288		ug/L	115%	77 - 141	8012507	01/14/08 23:16
ec-Butylbenzene	50 0	45 9		ug/L	92%	78 - 133	8012507	01/14/08 23:16
ı-Butylbenzene	50 0	44 6		ug/L	89%	72 - 136	8012507	01/14/08 23.16
tert-Butylbenzene	50 0	52 1		ug/L	104%	77 - 135	8012507	01/14/08 23 16
Carbon disulfide	50.0	44.5		ug/L	89%	80 - 126	8012507	01/14/08 23:16
Carbon Tetrachloride	50.0	47.7		ug/L	95%	76 - 143	8012507	01/14/08 23:16
Chlorobenzene	50.0	52 5		ug/L	105%	80 - 120	8012507	01/14/08 23.16
Chlorodibromomethane	50 0	47 4		ug/L	95%	76 - 123	8012507	01/14/08 23 16
Chloroethane	50 0	48 2		ug/L	96%	77 - 127	8012507	01/14/08 23:16
Chloroform	50 0	54 3		ug/L	109%	80 - 133	8012507	01/14/08 23:16
Chloromethane	50.0	44.7		ug/L	89%	33 - 125	8012507	01/14/08 23:16
.-Chlorotoluene	50.0	51 5		ug/L	103%	80 - 127	8012507	01/14/08 23:16
-Chlorotoluene	50 0	51 4		ug/L	103%	80 - 127	8012507	01/14/08 23 16
1,2-Dibromo-3-chloropropane	50 0	44 0		ug/L	88%	60 - 136	8012507	01/14/08 23.16
',2-Dibromoethane (EDB)	50 0	57.9		ug/L	116%	80 - 125	8012507	01/14/08 23 16
)ibromomethane	50 0	58 7		ug/L	117%	80 - 124	8012507	01/14/08 23·16
,4-Dichlorobenzene	50 0	51 2		ug/L	102%	80 - 120	8012507	01/14/08 23 16
1,3-Dichlorobenzene	50 0	51 5		ug/L	103%	80 - 123	8012507	01/14/08 23 16
,2-Dichlorobenzene	50 0	52 8		ug/L	106%	80 - 122	8012507	01/14/08 23·16
)ichlorodifluoromethane	50.0	42 3		ug/L	85%	36 - 120	8012507	01/14/08 23·16
1,1-Dichloroethane	50 0	51 1		ug/L	102%	76 - 130	8012507	01/14/08 23.16
,2-Dichloroethane	50 0	54 7		ug/L	109%	69 - 136	8012507	01/14/08 23 16
is-1,2-Dichloroethene	50 0	51 5		ug/L	103%	80 - 129	8012507	01/14/08 23 16
ı,1-Dichloroethene	50 0	47 2		ug/L	94%	80 - 127	8012507	01/14/08 23 16
trans-1,2-Dichloroethene	50 0	51 2		ug/L	102%	80 - 131	8012507	01/14/08 23:16
,3-Dichloropropane	50.0	53 0		ug/L	106%	80 - 122	8012507	01/14/08 23·16
,2-Dichloropropane	50 0	49 8		ug/L	100%	80 - 120	8012507	01/14/08 23 16
2,2-Dichloropropane	50 0	44 6		ug/L	89%	62 - 142	8012507	01/14/08 23.16
ıs-1,3-Dichloropropene	50 0	47.4		ug/L	95%	76 - 135	8012507	01/14/08 23 16
'ans-1,3-Dichloropropene	50 0	47 5		ug/L	95%	70 - 137	8012507	01/14/08 23·16

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
2960 Foster Creighton Road Nashville, TN 37204 * 800-765-0980 * Fax 615-726-3404

Client Hart & Hickman (2162)
2923 South Tyron Street, Suite 100
Charlotte, NC 28203-5449
Attn Shannon Cottrill

Work Order: NRA0822
Project Name: GDR-006
Project Number: [none]
Received: 01/10/08 08:00

PROJECT QUALITY CONTROL DATA
LCS - Cont.

ıalyte	Known Val	Analyzed Val	Q	Units	% Rec	Target Range	Batch	Analyzed Date/Time
¨olatile Organic Compounds by EPA Method 8260B								
)12507-BS1								
,1-Dichloropropene	50.0	51 1		ug/L	102%	80 - 127	8012507	01/14/08 23 16
Ethylbenzene	50 0	52 1		ug/L	104%	80 - 128	8012507	01/14/08 23 16
lexachlorobutadiene	50.0	44 2		ug/L	88%	68 - 148	8012507	01/14/08 23 16
-Hexanone	250	276		ug/L	110%	69 - 148	8012507	01/14/08 23 16
Isopropylbenzene	50.0	50 3		ug/L	101%	80 - 121	8012507	01/14/08 23 16
-Isopropyltoluene	50 0	50 1		ug/L	100%	79 - 127	8012507	01/14/08 23 16
lethyl tert-Butyl Ether	50.0	51 7		ug/L	103%	70 - 129	8012507	01/14/08 23·16
Methylene Chloride	50.0	52 9		ug/L	106%	76 - 135	8012507	01/14/08 23:16
-Methyl-2-pentanone	250	285		ug/L	114%	67 - 143	8012507	01/14/08 23·16
laphthalene	50 0	37 9		ug/L	76%	62 - 141	8012507	01/14/08 23:16
-Propylbenzene	50 0	50 1		ug/L	100%	80 - 132	8012507	01/14/08 23 16
Styrene	50.0	61 1		ug/L	122%	80 - 139	8012507	01/14/08 23 16
,1,1,2-Tetrachloroethane	50.0	49 2		ug/L	98%	80 - 135	8012507	01/14/08 23 16
,1,2,2-Tetrachloroethane	50 0	54 8		ug/L	110%	65 - 145	8012507	01/14/08 23.16
Tetrachloroethene	50 0	51 9		ug/L	104%	80 - 125	8012507	01/14/08 23 16
oluene	50.0	53 0		ug/L	106%	80 - 125	8012507	01/14/08 23:16
,2,3-Trichlorobenzene	50.0	33 7		ug/L	67%	57 - 144	8012507	01/14/08 23:16
,2,4-Trichlorobenzene	50 0	37.1		ug/L	74%	60 - 140	8012507	01/14/08 23·16
1,1,2-Trichloroethane	50 0	54 8		ug/L	110%	80 - 122	8012507	01/14/08 23 16
,1,1-Trichloroethane	50.0	54.3		ug/L	109%	80 - 131	8012507	01/14/08 23 16
'richloroethene	50.0	55 4		ug/L	111%	80 - 131	8012507	01/14/08 23·16
Trichlorofluoromethane	50.0	51 1		ug/L	102%	68 - 125	8012507	01/14/08 23 16
,2,3-Trichloropropane	50 0	47 6		ug/L	95%	60 - 127	8012507	01/14/08 23.16
,3,5-Trimethylbenzene	50.0	52 6		ug/L	105%	80 - 129	8012507	01/14/08 23 16
1,2,4-Trimethylbenzene	50 0	52 4		ug/L	105%	80 - 128	8012507	01/14/08 23 16
'inyl chloride	50 0	47 8		ug/L	96%	69 - 120	8012507	01/14/08 23.16
:ylenes, total	150	158		ug/L	105%	80 - 129	8012507	01/14/08 23 16
urrogate 1,2-Dichloroethane-d4	25 0	24.3			97%	60 - 140	8012507	01/14/08 23 16
Surrogate. Dibromofluoromethane	25 0	25 5			102%	75 - 124	8012507	01/14/08 23 16
urrogate Toluene-d8	25 0	25 3			101%	78 - 121	8012507	01/14/08 23 16
urrogate· 4-Bromofluorobenzene	25 0	24 2			97%	79 - 124	8012507	01/14/08 23.16
)12561-BS1								
romodichloromethane	50 0	51 5		ug/L	103%	80 - 129	8012561	01/15/08 11 55
ıromoform	50 0	44 9		ug/L	90%	69 - 127	8012561	01/15/08 11.55
Bromomethane	50 0	51 4		ug/L	103%	62 - 148	8012561	01/15/08 11·55
arbon Tetrachloride	50.0	46 7		ug/L	93%	76 - 143	8012561	01/15/08 11·55
hlorobenzene	50 0	50 0		ug/L	100%	80 - 120	8012561	01/15/08 11 55
Chlorodibromomethane	50 0	44.4		ug/L	89%	76 - 123	8012561	01/15/08 11 55
hloroethane	50 0	41 4		ug/L	83%	77 - 127	8012561	01/15/08 11 55
hloroform	50 0	52 6		ug/L	105%	80 - 133	8012561	01/15/08 11 55
Chloromethane	50 0	45 1		ug/L	90%	33 - 125	8012561	01/15/08 11 55

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

Client	Hart & Hickman (2162)	Work Order:	NRA0822
	2923 South Tyron Street, Suite 100	Project Name:	GDR-006
	Charlotte, NC 28203-5449	Project Number:	[none]
Attn	Shannon Cottrill	Received:	01/10/08 08:00

PROJECT QUALITY CONTROL DATA
LCS - Cont.

Analyte	Known Val.	Analyzed Val	Q	Units	% Rec	Target Range	Batch	Analyzed Date/Time
Volatile Organic Compounds by EPA Method 8260B								
8012561-BS1								
1,4-Dichlorobenzene	50 0	49.7		ug/L	99%	80 - 120	8012561	01/15/08 11:55
1,3-Dichlorobenzene	50 0	50 2		ug/L	100%	80 - 123	8012561	01/15/08 11:55
1,2-Dichlorobenzene	50 0	51.7		ug/L	103%	80 - 122	8012561	01/15/08 11 55
1,1-Dichloroethane	50 0	49 5		ug/L	99%	76 - 130	8012561	01/15/08 11 55
1,2-Dichloroethane	50.0	54 8		ug/L	110%	69 - 136	8012561	01/15/08 11 55
cis-1,2-Dichloroethene	50 0	50 2		ug/L	100%	80 - 129	8012561	01/15/08 11 55
1,1-Dichloroethene	50.0	43 9		ug/L	88%	80 - 127	8012561	01/15/08 11 55
trans-1,2-Dichloroethene	50 0	49 0		ug/L	98%	80 - 131	8012561	01/15/08 11 55
1,2-Dichloropropane	50.0	48 2		ug/L	96%	80 - 120	8012561	01/15/08 11 55
cis-1,3-Dichloropropene	50 0	43 7		ug/L	87%	76 - 135	8012561	01/15/08 11 55
trans-1,3-Dichloropropene	50 0	45.3		ug/L	91%	70 - 137	8012561	01/15/08 11 55
Methylene Chloride	50 0	52 0		ug/L	104%	76 - 135	8012561	01/15/08 11 55
1,1,2,2-Tetrachloroethane	50 0	54.2		ug/L	108%	65 - 145	8012561	01/15/08 11 55
Tetrachloroethene	50 0	49 5		ug/L	99%	80 - 125	8012561	01/15/08 11 55
1,1,2-Trichloroethane	50.0	53 5		ug/L	107%	80 - 122	8012561	01/15/08 11 55
1,1,1-Trichloroethane	50 0	52 6		ug/L	105%	80 - 131	8012561	01/15/08 11 55
Trichloroethene	50 0	53 2		ug/L	106%	80 - 131	8012561	01/15/08 11 55
Trichlorofluoromethane	50.0	48 3		ug/L	97%	68 - 125	8012561	01/15/08 11 55
Vinyl chloride	50 0	46 4		ug/L	93%	69 - 120	8012561	01/15/08 11 55
Surrogate: 1,2-Dichloroethane-d4	25 0	25 2			101%	60 - 140	8012561	01/15/08 11 55
Surrogate Dibromofluoromethane	25.0	25 9			104%	75 - 124	8012561	01/15/08 11.55
Surrogate: Toluene-d8	25 0	23 7			95%	78 - 121	8012561	01/15/08 11 55
Surrogate: 4-Bromofluorobenzene	25.0	23 6			94%	79 - 124	8012561	01/15/08 11 55
8012740-BS1								
Bromodichloromethane	50 0	47 6		ug/L	95%	80 - 129	8012740	01/16/08 11 17
Bromoform	50 0	44 1		ug/L	88%	69 - 127	8012740	01/16/08 11 17
Bromomethane	50 0	59 3		ug/L	119%	62 - 148	8012740	01/16/08 11 17
Carbon Tetrachloride	50 0	41 5		ug/L	83%	76 - 143	8012740	01/16/08 11 17
Chlorobenzene	50 0	50 0		ug/L	100%	80 - 120	8012740	01/16/08 11:17
Chlorodibromomethane	50 0	42.8		ug/L	86%	76 - 123	8012740	01/16/08 11 17
Chloroethane	50 0	56.5		ug/L	113%	77 - 127	8012740	01/16/08 11 17
Chloroform	50 0	52 5		ug/L	105%	80 - 133	8012740	01/16/08 11 17
Chloromethane	50 0	39 4		ug/L	79%	33 - 125	8012740	01/16/08 11 17
1,4-Dichlorobenzene	50 0	45 8		ug/L	92%	80 - 120	8012740	01/16/08 11.17
1,3-Dichlorobenzene	50 0	46 0		ug/L	92%	80 - 123	8012740	01/16/08 11:17
1,2-Dichlorobenzene	50 0	42 1		ug/L	84%	80 - 122	8012740	01/16/08 11 17
1,1-Dichloroethane	50 0	54 9		ug/L	110%	76 - 130	8012740	01/16/08 11 17
1,2-Dichloroethane	50 0	51 9		ug/L	104%	69 - 136	8012740	01/16/08 11 17
cis-1,2-Dichloroethene	50 0	50 6		ug/L	101%	80 - 129	8012740	01/16/08 11 17
1,1-Dichloroethene	50 0	49 6		ug/L	99%	80 - 127	8012740	01/16/08 11.17
trans-1,2-Dichloroethene	50.0	50 6		ug/L	101%	80 - 131	8012740	01/16/08 11:17

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

Client Hart & Hickman (2162)
2923 South Tyron Street, Suite 100
Charlotte, NC 28203-5449
Attn Shannon Cottrill

Work Order: NRA0822
Project Name: GDR-006
Project Number: [none]
Received: 01/10/08 08:00

PROJECT QUALITY CONTROL DATA
LCS - Cont.

nalyte	Known Val.	Analyzed Val	Q	Units	% Rec.	Target Range	Batch	Analyzed Date/Time
'olatile Organic Compounds by EPA Method 8260B								
012740-BS1								
,2-Dichloropropane	50 0	48 0		ug/L	96%	80 - 120	8012740	01/16/08 11 17
cis-1,3-Dichloropropene	50 0	44.9		ug/L	90%	76 - 135	8012740	01/16/08 11 17
rans-1,3-Dichloropropene	50 0	44.4		ug/L	89%	70 - 137	8012740	01/16/08 11:17
Methylene Chloride	50 0	50 0		ug/L	100%	76 - 135	8012740	01/16/08 11 17
1,1,2,2-Tetrachloroethane	50 0	55.0		ug/L	110%	65 - 145	8012740	01/16/08 11.17
'etrachloroethene	50 0	46 5		ug/L	93%	80 - 125	8012740	01/16/08 11.17
,1,2-Trichloroethane	50.0	55 9		ug/L	112%	80 - 122	8012740	01/16/08 11 17
1,1,1-Trichloroethane	50 0	45 6		ug/L	91%	80 - 131	8012740	01/16/08 11 17
Trichloroethene	50 0	51 3		ug/L	103%	80 - 131	8012740	01/16/08 11 17
'richlorofluoromethane	50 0	46 5		ug/L	93%	68 - 125	8012740	01/16/08 11 17
/inyl chloride	50 0	43.6		ug/L	87%	69 - 120	8012740	01/16/08 11.17
Surrogate 1,2-Dichloroethane-d4	30 0	28 7			96%	60 - 140	8012740	01/16/08 11 17
Surrogate Dibromofluoromethane	30.0	31 2			104%	75 - 124	8012740	01/16/08 11 17
Surrogate. Toluene-d8	30.0	28 4			95%	78 - 121	8012740	01/16/08 11 17
Surrogate. 4-Bromofluorobenzene	30.0	29 0			97%	79 - 124	8012740	01/16/08 11 17

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

Client Hart & Hickman (2162)
2923 South Tyron Street, Suite 100
Charlotte, NC 28203-5449
Attn Shannon Cottrill

Work Order: NRA0822
Project Name: GDR-006
Project Number: [none]
Received: 01/10/08 08:00

PROJECT QUALITY CONTROL DATA
LCS Dup

ıalyte	Orig Val.	Duplicate	Q	Units	Spike Conc	% Rec	Target Range	RPD	Limit	Batch	Sample Duplicated	Analyzed Date/Time
olatile Organic Compounds by EPA Method 8260B												
)12507-BSD1												
Acetone		311		ug/L	250	124%	62 - 150	8	29	8012507		01/14/08 23 41
Benzene		51.2		ug/L	50 0	102%	80 - 137	0.7	23	8012507		01/14/08 23.41
·romobenzene		49 7		ug/L	50 0	99%	74 - 131	2	18	8012507		01/14/08 23 41
·romochloromethane		56 2		ug/L	50 0	112%	80 - 128	2	18	8012507		01/14/08 23.41
Bromodichloromethane		52 4		ug/L	50 0	105%	80 - 129	0 3	18	8012507		01/14/08 23 41
ıromoform		47 2		ug/L	50 0	94%	69 - 127	2	24	8012507		01/14/08 23 41
ıromomethane		58.3		ug/L	50 0	117%	62 - 148	8	45	8012507		01/14/08 23:41
2-Butanone		284		ug/L	250	114%	77 - 141	2	36	8012507		01/14/08 23:41
ɛc-Butylbenzene		45.6		ug/L	50 0	91%	78 - 133	0 7	17	8012507		01/14/08 23.41
-Butylbenzene		44 4		ug/L	50 0	89%	72 - 136	0.5	18	8012507		01/14/08 23 41
.:rt-Butylbenzene		51 8		ug/L	50.0	104%	77 - 135	0 6	17	8012507		01/14/08 23:41
Carbon disulfide		44 2		ug/L	50 0	88%	80 - 126	0 6	16	8012507		01/14/08 23:41
'arbon Tetrachloride		48.3		ug/L	50 0	97%	76 - 143	1	29	8012507		01/14/08 23:41
'hlorobenzene		51 8		ug/L	50 0	104%	80 - 120	1	27	8012507		01/14/08 23:41
Chlorodibromomethane		46 7		ug/L	50 0	93%	76 - 123	2	21	8012507		01/14/08 23 41
'hloroethane		49 6		ug/L	50 0	99%	77 - 127	3	32	8012507		01/14/08 23:41
'hloroform		53 8		ug/L	50 0	108%	80 - 133	1	28	8012507		01/14/08 23:41
Chloromethane		45 2		ug/L	50 0	90%	33 - 125	1	21	8012507		01/14/08 23 41
^-Chlorotoluene		50.5		ug/L	50 0	101%	80 - 127	2	16	8012507		01/14/08 23 41
-Chlorotoluene		50.8		ug/L	50 0	102%	80 - 127	1	17	8012507		01/14/08 23 41
,2-Dibromo-3-chloropropane		41 4		ug/L	50.0	83%	60 - 136	6	29	8012507		01/14/08 23 41
1,2-Dibromoethane (EDB)		55 8		ug/L	50 0	112%	80 - 125	4	21	8012507		01/14/08 23:41
›ibromomethane		57 1		ug/L	50.0	114%	80 - 124	3	20	8012507		01/14/08 23 41
,4-Dichlorobenzene		50.5		ug/L	50 0	101%	80 - 120	1	19	8012507		01/14/08 23 41
1,3-Dichlorobenzene		50 7		ug/L	50 0	101%	80 - 123	2	18	8012507		01/14/08 23:41
,2-Dichlorobenzene		51.8		ug/L	50 0	104%	80 - 122	2	23	8012507		01/14/08 23 41
›ichlorodifluoromethane		42 0		ug/L	50 0	84%	36 - 120	0 7	14	8012507		01/14/08 23 41
ı,1-Dichloroethane		51.2		ug/L	50 0	102%	76 - 130	0.3	15	8012507		01/14/08 23:41
1,2-Dichloroethane		53 1		ug/L	50 0	106%	69 - 136	3	26	8012507		01/14/08 23:41
ıs-1,2-Dichloroethene		50 9		ug/L	50 0	102%	80 - 129	1	14	8012507		01/14/08 23:41
,1-Dichloroethene		46 9		ug/L	50 0	94%	80 - 127	0 8	26	8012507		01/14/08 23.41
trans-1,2-Dichloroethene		50.9		ug/L	50 0	102%	80 - 131	0.6	14	8012507		01/14/08 23.41
,3-Dichloropropane		51 2		ug/L	50 0	102%	80 - 122	3	21	8012507		01/14/08 23 41
,2-Dichloropropane		49 2		ug/L	50 0	98%	80 - 120	1	16	8012507		01/14/08 23 41
2,2-Dichloropropane		44 1		ug/L	50 0	88%	62 - 142	1	14	8012507		01/14/08 23 41
ıs-1,3-Dichloropropene		46 6		ug/L	50 0	93%	76 - 135	2	19	8012507		01/14/08 23:41
ans-1,3-Dichloropropene		47 1		ug/L	50 0	94%	70 - 137	1	20	8012507		01/14/08 23 41
.,1-Dichloropropene		51 2		ug/L	50 0	102%	80 - 127	0 1	14	8012507		01/14/08 23 41
Ethylbenzene		51 8		ug/L	50 0	104%	80 - 128	0 4	17	8012507		01/14/08 23 41
exachlorobutadiene		43 2		ug/L	50 0	86%	68 - 148	2	34	8012507		01/14/08 23 41
·Hexanone		267		ug/L	250	107%	69 - 148	3	34	8012507		01/14/08 23.41

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

Client Hart & Hickman (2162)
2923 South Tyron Street, Suite 100
Charlotte, NC 28203-5449
Attn Shannon Cottrill

Work Order: NRA0822
Project Name: GDR-006
Project Number: [none]
Received: 01/10/08 08:00

PROJECT QUALITY CONTROL DATA
LCS Dup - Cont.

nalyte	Orig Val	Duplicate	Q	Units	Spike Conc	% Rec	Target Range	RPD	Limit	Batch	Sample Duplicated	Analyzed Date/Time
'olatile Organic Compounds by EPA Method 8260B												
012507-BSD1												
ısopropylbenzene		50 0		ug/L	50 0	100%	80 - 121	0 5	18	8012507		01/14/08 23 41
ɿ-Isopropyltoluene		50 0		ug/L	50 0	100%	79 - 127	0.2	17	8012507		01/14/08 23 41
Aethyl tert-Butyl Ether		49.3		ug/L	50 0	99%	70 - 129	5	32	8012507		01/14/08 23 41
Aethylene Chloride		52.5		ug/L	50 0	105%	76 - 135	0 8	18	8012507		01/14/08 23 41
4-Methyl-2-pentanone		269		ug/L	250	108%	67 - 143	6	31	8012507		01/14/08 23.41
Vaphthalene		34.6		ug/L	50 0	69%	62 - 141	9	39	8012507		01/14/08 23·41
ı-Propylbenzene		49 9		ug/L	50 0	100%	80 - 132	0 5	17	8012507		01/14/08 23.41
Styrene		60 8		ug/L	50 0	122%	80 - 139	0 5	16	8012507		01/14/08 23 41
˙,1,1,2-Tetrachloroethane		48.6		ug/L	50 0	97%	80 - 135	1	17	8012507		01/14/08 23 41
,1,2,2-Tetrachloroethane		50.3		ug/L	50 0	101%	65 - 145	9	28	8012507		01/14/08 23 41
'etrachloroethene		51 5		ug/L	50 0	103%	80 - 125	0 8	27	8012507		01/14/08 23·41
Toluene		52.4		ug/L	50 0	105%	80 - 125	1	19	8012507		01/14/08 23 41
,2,3-Trichlorobenzene		31 4		ug/L	50 0	63%	57 - 144	7	31	8012507		01/14/08 23.41
,2,4-Trichlorobenzene		35 3		ug/L	50 0	71%	60 - 140	5	26	8012507		01/14/08 23 41
1,1,2-Trichloroethane		53 0		ug/L	50 0	106%	80 - 122	3	21	8012507		01/14/08 23 41
,1,1-Trichloroethane		54.1		ug/L	50 0	108%	80 - 131	0 4	16	8012507		01/14/08 23·41
'richloroethene		57 4		ug/L	50 0	115%	80 - 131	4	28	8012507		01/14/08 23:41
Trichlorofluoromethane		50 8		ug/L	50 0	102%	68 - 125	0.7	20	8012507		01/14/08 23·41
',2,3-Trichloropropane		45 1		ug/L	50 0	90%	60 - 127	5	26	8012507		01/14/08 23:41
,3,5-Trimethylbenzene		52 3		ug/L	50 0	105%	80 - 129	0.6	16	8012507		01/14/08 23:41
,2,4-Trimethylbenzene		51 9		ug/L	50 0	104%	80 - 128	1	22	8012507		01/14/08 23:41
Vinyl chloride		47 4		ug/L	50 0	95%	69 - 120	0.6	26	8012507		01/14/08 23:41
Kylenes, total		156		ug/L	150	104%	80 - 129	0.7	18	8012507		01/14/08 23:41
urrogate: 1,2-Dichloroethane-d4		24 1		ug/L	25 0	96%	60 - 140			8012507		01/14/08 23:41
Surrogate Dibromofluoromethane		25.6		ug/L	25 0	102%	75 - 124			8012507		01/14/08 23.41
urrogate Toluene-d8		25 2		ug/L	25 0	101%	78 - 121			8012507		01/14/08 23.41
urrogate· 4-Bromofluorobenzene		23.9		ug/L	25 0	95%	79 - 124			8012507		01/14/08 23 41
°012561-BSD1												
3romodichloromethane		51 6		ug/L	50 0	103%	80 - 129	0 2	18	8012561		01/15/08 12·20
3romoform		46 7		ug/L	50 0	93%	69 - 127	4	24	8012561		01/15/08 12 20
Bromomethane		52 0		ug/L	50 0	104%	62 - 148	1	45	8012561		01/15/08 12 20
'arbon Tetrachloride		46 9		ug/L	50 0	94%	76 - 143	0 5	29	8012561		01/15/08 12·20
'hlorobenzene		50 2		ug/L	50 0	100%	80 - 120	0 3	27	8012561		01/15/08 12·20
Chlorodibromomethane		44 5		ug/L	50 0	89%	76 - 123	0 3	21	8012561		01/15/08 12 20
'hloroethane		41.0		ug/L	50 0	82%	77 - 127	0 9	32	8012561		01/15/08 12 20
'hloroform		52 7		ug/L	50 0	105%	80 - 133	0.2	28	8012561		01/15/08 12·20
'hloromethane		45 2		ug/L	50 0	90%	33 - 125	0 2	21	8012561		01/15/08 12 20
1,4-Dichlorobenzene		50 0		ug/L	50 0	100%	80 - 120	0 6	19	8012561		01/15/08 12 20
,3-Dichlorobenzene		50.2		ug/L	50 0	100%	80 - 123	0 02	18	8012561		01/15/08 12·20
,2-Dichlorobenzene		51 9		ug/L	50 0	104%	80 - 122	0 4	23	8012561		01/15/08 12 20

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

Client	Hart & Hickman (2162) 2923 South Tyron Street, Suite 100 Charlotte, NC 28203-5449	Work Order:	NRA0822
		Project Name:	GDR-006
		Project Number:	[none]
Attn	Shannon Cottrill	Received:	01/10/08 08:00

PROJECT QUALITY CONTROL DATA
LCS Dup - Cont.

nalyte	Orig Val	Duplicate	Q	Units	Spike Conc	% Rec.	Target Range	RPD	Limit	Batch	Sample Duplicated	Analyzed Date/Time
olatile Organic Compounds by EPA Method 8260B												
)12561-BSD1												
,1-Dichloroethane		48 8		ug/L	50 0	98%	76 - 130	1	15	8012561		01/15/08 12 20
1,2-Dichloroethane		55 0		ug/L	50 0	110%	69 - 136	0 3	26	8012561		01/15/08 12:20
is-1,2-Dichloroethene		50 2		ug/L	50 0	100%	80 - 129	0 06	14	8012561		01/15/08 12 20
,1-Dichloroethene		43 6		ug/L	50 0	87%	80 - 127	0 7	26	8012561		01/15/08 12 20
trans-1,2-Dichloroethene		48 8		ug/L	50 0	98%	80 - 131	0 3	14	8012561		01/15/08 12.20
,2-Dichloropropane		47 7		ug/L	50 0	95%	80 - 120	1	16	8012561		01/15/08 12:20
is-1,3-Dichloropropene		44.1		ug/L	50 0	88%	76 - 135	1	19	8012561		01/15/08 12:20
trans-1,3-Dichloropropene		44 0		ug/L	50 0	88%	70 - 137	3	20	8012561		01/15/08 12:20
'lethylene Chloride		51 6		ug/L	50 0	103%	76 - 135	0 8	18	8012561		01/15/08 12.20
,1,2,2-Tetrachloroethane		55 2		ug/L	50 0	110%	65 - 145	2	28	8012561		01/15/08 12 20
'etrachloroethene		49.8		ug/L	50 0	100%	80 - 125	0 5	27	8012561		01/15/08 12:20
1,1,2-Trichloroethane		52.9		ug/L	50 0	106%	80 - 122	1	21	8012561		01/15/08 12.20
,1,1-Trichloroethane		52 5		ug/L	50 0	105%	80 - 131	0 2	16	8012561		01/15/08 12 20
'richloroethene		53 5		ug/L	50 0	107%	80 - 131	0.5	28	8012561		01/15/08 12:20
Trichlorofluoromethane		47 7		ug/L	50 0	95%	68 - 125	1	20	8012561		01/15/08 12:20
'inyl chloride		45.8		ug/L	50 0	92%	69 - 120	1	26	8012561		01/15/08 12:20
urrogate. 1,2-Dichloroethane-d4		25 3		ug/L	25 0	101%	60 - 140			8012561		01/15/08 12:20
Surrogate: Dibromofluoromethane		25.9		ug/L	25 0	103%	75 - 124			8012561		01/15/08 12 20
urrogate. Toluene-d8		23.5		ug/L	25 0	94%	78 - 121			8012561		01/15/08 12:20
urrogate. 4-Bromofluorobenzene		23 5		ug/L	25 0	94%	79 - 124			8012561		01/15/08 12:20
8012740-BSD1												
romodichloromethane		49 0		ug/L	50 0	98%	80 - 129	3	18	8012740		01/16/08 11:41
romoform		45 6		ug/L	50.0	91%	69 - 127	3	24	8012740		01/16/08 11:41
Bromomethane		62 2		ug/L	50 0	124%	62 - 148	5	45	8012740		01/16/08 11:41
'arbon Tetrachloride		42.3		ug/L	50 0	85%	76 - 143	2	29	8012740		01/16/08 11:41
'hlorobenzene		51 4		ug/L	50 0	103%	80 - 120	3	27	8012740		01/16/08 11 41
'hlorodibromomethane		44.9		ug/L	50 0	90%	76 - 123	5	21	8012740		01/16/08 11 41
Chloroethane		59 3		ug/L	50 0	119%	77 - 127	5	32	8012740		01/16/08 11 41
'hloroform		53 4		ug/L	50 0	107%	80 - 133	2	28	8012740		01/16/08 11 41
'hloromethane		40 9		ug/L	50 0	82%	33 - 125	4	21	8012740		01/16/08 11:41
1,4-Dichlorobenzene		47 6		ug/L	50 0	95%	80 - 120	4	19	8012740		01/16/08 11 41
,3-Dichlorobenzene		48 0		ug/L	50 0	96%	80 - 123	4	18	8012740		01/16/08 11 41
,2-Dichlorobenzene		50.4		ug/L	50 0	101%	80 - 122	18	23	8012740		01/16/08 11 41
,1-Dichloroethane		54 9		ug/L	50 0	110%	76 - 130	0 05	15	8012740		01/16/08 11:41
1,2-Dichloroethane		53 3		ug/L	50 0	107%	69 - 136	3	26	8012740		01/16/08 11 41
is-1,2-Dichloroethene		51 6		ug/L	50 0	103%	80 - 129	2	14	8012740		01/16/08 11 41
,1-Dichloroethene		51 9		ug/L	50 0	104%	80 - 127	5	26	8012740		01/16/08 11 41
trans-1,2-Dichloroethene		51 4		ug/L	50 0	103%	80 - 131	1	14	8012740		01/16/08 11.41
,2-Dichloropropane		48 9		ug/L	50 0	98%	80 - 120	2	16	8012740		01/16/08 11 41
is-1,3-Dichloropropene		45 6		ug/L	50 0	91%	76 - 135	2	19	8012740		01/16/08 11 41

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
2960 Foster Creighton Road Nashville, TN 37204 * 800-765-0980 * Fax 615-726-3404

Client	Hart & Hickman (2162)	Work Order:	NRA0822
	2923 South Tyron Street, Suite 100	Project Name:	GDR-006
	Charlotte, NC 28203-5449	Project Number:	[none]
Attn	Shannon Cottrill	Received:	01/10/08 08:00

PROJECT QUALITY CONTROL DATA
LCS Dup - Cont.

nalyte	Orig Val	Duplicate	Q	Units	Spike Conc	% Rec	Target Range	RPD	Limit	Batch	Sample Duplicated	Analyzed Date/Time
'olatile Organic Compounds by EPA Method 8260B												
012740-BSD1												
trans-1,3-Dichloropropene		45 2		ug/L	50 0	90%	70 - 137	2	20	8012740		01/16/08 11 41
Methylene Chloride		51.1		ug/L	50 0	102%	76 - 135	2	18	8012740		01/16/08 11 41
,1,2,2-Tetrachloroethane		53 3		ug/L	50.0	107%	65 - 145	3	28	8012740		01/16/08 11 41
'etrachloroethene		47 3		ug/L	50 0	95%	80 - 125	2	27	8012740		01/16/08 11 41
1,1,2-Trichloroethane		56 8		ug/L	50 0	114%	80 - 122	2	21	8012740		01/16/08 11 41
,1,1-Trichloroethane		45 7		ug/L	50 0	91%	80 - 131	0 1	16	8012740		01/16/08 11 41
'richloroethene		57 4		ug/L	50.0	115%	80 - 131	11	28	8012740		01/16/08 11 41
Trichlorofluoromethane		47.8		ug/L	50 0	96%	68 - 125	3	20	8012740		01/16/08 11 41
/inyl chloride		46 2		ug/L	50 0	92%	69 - 120	6	26	8012740		01/16/08 11.41
urrogate: 1,2-Dichloroethane-d4		29 0		ug/L	30.0	97%	60 - 140			8012740		01/16/08 11.41
urrogate: Dibromofluoromethane		30 7		ug/L	30 0	102%	75 - 124			8012740		01/16/08 11 41
Surrogate: Toluene-d8		28 1		ug/L	30 0	94%	78 - 121			8012740		01/16/08 11 41
urrogate· 4-Bromofluorobenzene		29 6		ug/L	30.0	99%	79 - 124			8012740		01/16/08 11 41

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

Client Hart & Hickman (2162)
2923 South Tyron Street, Suite 100
Charlotte, NC 28203-5449
Attn Shannon Cottrill

Work Order: NRA0822
Project Name: GDR-006
Project Number: [none]
Received: 01/10/08 08:00

PROJECT QUALITY CONTROL DATA
Matrix Spike

nalyte	Orig. Val.	MS Val	Q	Units	Spike Conc	% Rec.	Target Range	Batch	Sample Spiked	Analyzed Date/Time
General Chemistry Parameters										
012492-MS1										
'otal Organic Carbon	0 566	18 5		ug/mL	20 0	90%	79 - 130	8012492	NRA0822-10	01/16/08 08:33
'olatile Organic Compounds by EPA Method 8260B										
012507-MS1										
Acetone	ND	245		ug/L	250	98%	55 - 148	8012507	NRA0822-15	01/16/08 10:46
3enzene	ND	51.5		ug/L	50 0	103%	68 - 143	8012507	NRA0822-15	01/16/08 10:46
3romobenzene	ND	47 5		ug/L	50 0	95%	65 - 140	8012507	NRA0822-15	01/16/08 10:46
Bromochloromethane	ND	54 4		ug/L	50 0	109%	80 - 137	8012507	NRA0822-15	01/16/08 10:46
3romodichloromethane	ND	48.9		ug/L	50 0	98%	80 - 132	8012507	NRA0822-15	01/16/08 10:46
3romoform	ND	42 4		ug/L	50.0	85%	67 - 123	8012507	NRA0822-15	01/16/08 10 46
Bromomethane	ND	59 8		ug/L	50 0	120%	39 - 166	8012507	NRA0822-15	01/16/08 10:46
:-Butanone	ND	253		ug/L	250	101%	50 - 154	8012507	NRA0822-15	01/16/08 10·46
ec-Butylbenzene	ND	45.6		ug/L	50 0	91%	73 - 142	8012507	NRA0822-15	01/16/08 10.46
n-Butylbenzene	ND	43.5		ug/L	50 0	87%	64 - 147	8012507	NRA0822-15	01/16/08 10:46
ert-Butylbenzene	ND	52.5		ug/L	50 0	105%	70 - 148	8012507	NRA0822-15	01/16/08 10·46
:arbon dısulfide	ND	42 0		ug/L	50 0	84%	79 - 147	8012507	NRA0822-15	01/16/08 10·46
Carbon Tetrachlorıde	ND	47 1		ug/L	50 0	94%	62 - 165	8012507	NRA0822-15	01/16/08 10:46
:hlorobenzene	ND	50 7		ug/L	50.0	101%	67 - 140	8012507	NRA0822-15	01/16/08 10:46
:hlorodibromomethane	ND	41.8		ug/L	50 0	84%	72 - 123	8012507	NRA0822-15	01/16/08 10:46
Chloroethane	ND	47 4		ug/L	50 0	95%	74 - 151	8012507	NRA0822-15	01/16/08 10:46
:hloroform	0 350	53 1		ug/L	50.0	106%	59 - 152	8012507	NRA0822-15	01/16/08 10:46
:hloromethane	0.290	40.8		ug/L	50 0	81%	33 - 138	8012507	NRA0822-15	01/16/08 10:46
2-Chlorotoluene	ND	48 8		ug/L	50.0	98%	76 - 134	8012507	NRA0822-15	01/16/08 10:46
-Chlorotoluene	ND	48.6		ug/L	50 0	97%	80 - 133	8012507	NRA0822-15	01/16/08 10·46
,2-Dibromo-3-chloropropane	ND	44 2		ug/L	50 0	88%	60 - 136	8012507	NRA0822-15	01/16/08 10·46
1,2-Dıbromoethane (EDB)	ND	53 9		ug/L	50 0	108%	80 - 132	8012507	NRA0822-15	01/16/08 10 46
)ibromomethane	ND	54 4		ug/L	50 0	109%	79 - 131	8012507	NRA0822-15	01/16/08 10.46
,4-Dichlorobenzene	ND	48 5		ug/L	50 0	97%	80 - 126	8012507	NRA0822-15	01/16/08 10.46
1,3-Dichlorobenzene	ND	48.6		ug/L	50 0	97%	75 - 132	8012507	NRA0822-15	01/16/08 10·46
,2-Dıchlorobenzene	ND	50 0		ug/L	50.0	100%	80 - 130	8012507	NRA0822-15	01/16/08 10 46
)ıchlorodifluoromethane	ND	33 0		ug/L	50 0	66%	36 - 146	8012507	NRA0822-15	01/16/08 10·46
1,1-Dichloroethane	ND	51 1		ug/L	50 0	102%	76 - 131	8012507	NRA0822-15	01/16/08 10 46
,2-Dıchloroethane	ND	50 9		ug/L	50 0	102%	53 - 146	8012507	NRA0822-15	01/16/08 10·46
ıs-1,2-Dıchloroethene	ND	49 7		ug/L	50 0	99%	76 - 141	8012507	NRA0822-15	01/16/08 10·46
1,1-Dıchloroethene	ND	47 0		ug/L	50 0	94%	63 - 157	8012507	NRA0822-15	01/16/08 10·46
'ans-1,2-Dichloroethene	ND	49 8		ug/L	50 0	100%	78 - 137	8012507	NRA0822-15	01/16/08 10.46
,3-Dichloropropane	ND	49 4		ug/L	50 0	99%	76 - 130	8012507	NRA0822-15	01/16/08 10·46
1,2-Dıchloropropane	ND	49 5		ug/L	50 0	99%	77 - 128	8012507	NRA0822-15	01/16/08 10:46

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THE LEADER IN ENVIRONMENTAL TESTING

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

Client	Hart & Hickman (2162)	Work Order:	NRA0822
	2923 South Tyron Street, Suite 100	Project Name:	GDR-006
	Charlotte, NC 28203-5449	Project Number:	[none]
Attn	Shannon Cottrill	Received:	01/10/08 08:00

PROJECT QUALITY CONTROL DATA
Matrix Spike - Cont.

nalyte	Orig. Val	MS Val	Q	Units	Spike Conc	% Rec	Target Range	Batch	Sample Spiked	Analyzed Date/Time
Volatile Organic Compounds by EPA Method 8260B										
012507-MS1										
,2-Dichloropropane	ND	40 1		ug/L	50 0	80%	62 - 145	8012507	NRA0822-15	01/16/08 10:46
cis-1,3-Dichloropropene	ND	45 7		ug/L	50 0	91%	71 - 140	8012507	NRA0822-15	01/16/08 10:46
rans-1,3-Dichloropropene	ND	43 9		ug/L	50 0	88%	65 - 137	8012507	NRA0822-15	01/16/08 10:46
,1-Dichloropropene	ND	51 8		ug/L	50 0	104%	80 - 136	8012507	NRA0822-15	01/16/08 10:46
Ethylbenzene	ND	51 3		ug/L	50.0	103%	80 - 135	8012507	NRA0822-15	01/16/08 10:46
Iexachlorobutadiene	ND	47 2		ug/L	50 0	94%	48 - 155	8012507	NRA0822-15	01/16/08 10:46
-Hexanone	ND	251		ug/L	250	101%	58 - 154	8012507	NRA0822-15	01/16/08 10:46
Isopropylbenzene	ND	49 7		ug/L	50 0	99%	80 - 135	8012507	NRA0822-15	01/16/08 10 46
-Isopropyltoluene	ND	49 1		ug/L	50 0	98%	74 - 139	8012507	NRA0822-15	01/16/08 10:46
Methyl tert-Butyl Ether	ND	48 8		ug/L	50 0	98%	60 - 144	8012507	NRA0822-15	01/16/08 10.46
Methylene Chloride	ND	50 2		ug/L	50.0	100%	64 - 140	8012507	NRA0822-15	01/16/08 10 46
-Methyl-2-pentanone	ND	270		ug/L	250	108%	55 - 153	8012507	NRA0822-15	01/16/08 10:46
Iaphthalene	ND	50 8		ug/L	50 0	102%	50 - 154	8012507	NRA0822-15	01/16/08 10 46
n-Propylbenzene	ND	48 8		ug/L	50 0	98%	78 - 141	8012507	NRA0822-15	01/16/08 10:46
Styrene	ND	58.6		ug/L	50 0	117%	80 - 139	8012507	NRA0822-15	01/16/08 10:46
,1,1,2-Tetrachloroethane	ND	45.7		ug/L	50 0	91%	75 - 140	8012507	NRA0822-15	01/16/08 10:46
1,1,2,2-Tetrachloroethane	ND	50 8		ug/L	50 0	102%	55 - 152	8012507	NRA0822-15	01/16/08 10 46
Tetrachloroethene	0.560	51 0		ug/L	50 0	101%	67 - 150	8012507	NRA0822-15	01/16/08 10:46
Toluene	ND	54 3		ug/L	50 0	109%	75 - 139	8012507	NRA0822-15	01/16/08 10 46
1,2,3-Trichlorobenzene	ND	43 2		ug/L	50 0	86%	49 - 144	8012507	NRA0822-15	01/16/08 10:46
,2,4-Trichlorobenzene	ND	42 8		ug/L	50 0	86%	55 - 135	8012507	NRA0822-15	01/16/08 10.46
,1,2-Trichloroethane	ND	50.4		ug/L	50 0	101%	77 - 128	8012507	NRA0822-15	01/16/08 10 46
1,1,1-Trichloroethane	ND	53 7		ug/L	50 0	107%	80 - 136	8012507	NRA0822-15	01/16/08 10.46
Trichloroethene	ND	55 4		ug/L	50 0	111%	57 - 158	8012507	NRA0822-15	01/16/08 10:46
Trichlorofluoromethane	ND	50 0		ug/L	50 0	100%	68 - 145	8012507	NRA0822-15	01/16/08 10:46
1,2,3-Trichloropropane	ND	43 0		ug/L	50 0	86%	55 - 137	8012507	NRA0822-15	01/16/08 10:46
,3,5-Trimethylbenzene	ND	51 0		ug/L	50 0	102%	78 - 136	8012507	NRA0822-15	01/16/08 10 46
,2,4-Trimethylbenzene	ND	50 8		ug/L	50 0	102%	70 - 143	8012507	NRA0822-15	01/16/08 10:46
Vinyl chloride	ND	45 7		ug/L	50 0	91%	49 - 156	8012507	NRA0822-15	01/16/08 10 46
Xylenes, total	ND	155		ug/L	150	103%	80 - 136	8012507	NRA0822-15	01/16/08 10:46
Surrogate 1,2-Dichloroethane-d4		24 0		ug/L	25 0	96%	60 - 140	8012507	NRA0822-15	01/16/08 10 46
Surrogate Dibromofluoromethane		25 4		ug/L	25 0	101%	75 - 124	8012507	NRA0822-15	01/16/08 10.46
Surrogate. Toluene-d8		26 1		ug/L	25 0	104%	78 - 121	8012507	NRA0822-15	01/16/08 10 46
Surrogate 4-Bromofluorobenzene		23 6		ug/L	25 0	95%	79 - 124	8012507	NRA0822-15	01/16/08 10 46

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THE LEADER IN ENVIRONMENTAL TESTING

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

Client Hart & Hickman (2162)
2923 South Tyron Street, Suite 100
Charlotte, NC 28203-5449
Attn Shannon Cottrill

Work Order: NRA0822
Project Name: GDR-006
Project Number: [none]
Received: 01/10/08 08:00

PROJECT QUALITY CONTROL DATA
Matrix Spike Dup

.nalyte	Orig. Val.	Duplicate	Q	Units	Spike Conc	% Rec	Target Range	RPD	Limit	Batch	Sample Duplicated	Analyzed Date/Time
;eneral Chemistry Parameters												
:012492-MSD1												
Total Organic Carbon	0 566	17.9		ug/mL	20 0	87%	79 - 130	4	20	8012492	NRA0822-10	01/16/08 08 33
'olatile Organic Compounds by EPA Method 8260B												
.012507-MSD1												
Acetone	ND	252		ug/L	250	101%	55 - 148	3	29	8012507	NRA0822-15	01/16/08 11:11
Benzene	ND	51 1		ug/L	50 0	102%	68 - 143	0 7	23	8012507	NRA0822-15	01/16/08 11.11
Bromobenzene	ND	47.9		ug/L	50 0	96%	65 - 140	0.8	18	8012507	NRA0822-15	01/16/08 11:11
Bromochloromethane	ND	55 1		ug/L	50 0	110%	80 - 137	1	18	8012507	NRA0822-15	01/16/08 11:11
Bromodichloromethane	ND	50.7		ug/L	50 0	101%	80 - 132	4	18	8012507	NRA0822-15	01/16/08 11:11
Bromoform	ND	45 6		ug/L	50 0	91%	67 - 123	7	24	8012507	NRA0822-15	01/16/08 11:11
Bromomethane	ND	56 9		ug/L	50 0	114%	39 - 166	5	45	8012507	NRA0822-15	01/16/08 11:11
2-Butanone	ND	266		ug/L	250	106%	50 - 154	5	36	8012507	NRA0822-15	01/16/08 11:11
sec-Butylbenzene	ND	45 9		ug/L	50 0	92%	73 - 142	0.7	17	8012507	NRA0822-15	01/16/08 11.11
n-Butylbenzene	ND	44.7		ug/L	50 0	89%	64 - 147	3	18	8012507	NRA0822-15	01/16/08 11:11
tert-Butylbenzene	ND	52.8		ug/L	50 0	106%	70 - 148	0 6	17	8012507	NRA0822-15	01/16/08 11.11
Carbon disulfide	ND	42 2		ug/L	50 0	84%	79 - 147	0.5	16	8012507	NRA0822-15	01/16/08 11.11
Carbon Tetrachloride	ND	48 7		ug/L	50 0	97%	62 - 165	3	29	8012507	NRA0822-15	01/16/08 11:11
Chlorobenzene	ND	49 9		ug/L	50 0	100%	67 - 140	2	27	8012507	NRA0822-15	01/16/08 11:11
Chlorodibromomethane	ND	43 9		ug/L	50 0	88%	72 - 123	5	21	8012507	NRA0822-15	01/16/08 11:11
Chloroethane	ND	47.0		ug/L	50 0	94%	74 - 151	0.9	32	8012507	NRA0822-15	01/16/08 11:11
Chloroform	0 350	53.1		ug/L	50 0	105%	59 - 152	0 1	28	8012507	NRA0822-15	01/16/08 11 11
Chloromethane	0 290	42.6		ug/L	50 0	85%	33 - 138	4	21	8012507	NRA0822-15	01/16/08 11.11
2-Chlorotoluene	ND	49 0		ug/L	50 0	98%	76 - 134	0 5	16	8012507	NRA0822-15	01/16/08 11:11
4-Chlorotoluene	ND	49.4		ug/L	50 0	99%	80 - 133	1	17	8012507	NRA0822-15	01/16/08 11 11
1,2-Dibromo-3-chloropropane	ND	48 1		ug/L	50 0	96%	60 - 136	8	29	8012507	NRA0822-15	01/16/08 11:11
1,2-Dibromoethane (EDB)	ND	54 0		ug/L	50 0	108%	80 - 132	0 2	21	8012507	NRA0822-15	01/16/08 11 11
Dibromomethane	ND	55 2		ug/L	50 0	110%	79 - 131	2	20	8012507	NRA0822-15	01/16/08 11 11
1,4-Dichlorobenzene	ND	49 3		ug/L	50 0	99%	80 - 126	2	19	8012507	NRA0822-15	01/16/08 11.11
1,3-Dichlorobenzene	ND	49 5		ug/L	50 0	99%	75 - 132	2	18	8012507	NRA0822-15	01/16/08 11 11
1,2-Dichlorobenzene	ND	51 5		ug/L	50 0	103%	80 - 130	3	23	8012507	NRA0822-15	01/16/08 11.11
Dichlorodifluoromethane	ND	34 6		ug/L	50 0	69%	36 - 146	5	14	8012507	NRA0822-15	01/16/08 11 11
1,1-Dichloroethane	ND	50.5		ug/L	50 0	101%	76 - 131	1	15	8012507	NRA0822-15	01/16/08 11 11
1,2-Dichloroethane	ND	51 5		ug/L	50 0	103%	53 - 146	1	26	8012507	NRA0822-15	01/16/08 11 11
cis-1,2-Dichloroethene	ND	49.4		ug/L	50 0	99%	76 - 141	0 5	14	8012507	NRA0822-15	01/16/08 11 11
1,1-Dichloroethene	ND	46.9		ug/L	50 0	94%	63 - 157	0.2	26	8012507	NRA0822-15	01/16/08 11 11
trans-1,2-Dichloroethene	ND	49 9		ug/L	50 0	100%	78 - 137	0 3	14	8012507	NRA0822-15	01/16/08 11 11
1,3-Dichloropropane	ND	49 7		ug/L	50 0	99%	76 - 130	0 5	21	8012507	NRA0822-15	01/16/08 11 11
1,2-Dichloropropane	ND	48 8		ug/L	50 0	98%	77 - 128	1	16	8012507	NRA0822-15	01/16/08 11.11
2,2-Dichloropropane	ND	39 8		ug/L	50 0	80%	62 - 145	0 6	14	8012507	NRA0822-15	01/16/08 11 11
cis-1,3-Dichloropropene	ND	45 3		ug/L	50 0	91%	71 - 140	0 9	19	8012507	NRA0822-15	01/16/08 11 11
trans-1,3-Dichloropropene	ND	45 1		ug/L	50 0	90%	65 - 137	3	20	8012507	NRA0822-15	01/16/08 11 11

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THE LEADER IN ENVIRONMENTAL TESTING

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

Client	Hart & Hickman (2162)		Work Order:	NRA0822
	2923 South Tyron Street, Suite 100		Project Name:	GDR-006
	Charlotte, NC 28203-5449		Project Number:	[none]
Attn	Shannon Cottrill		Received:	01/10/08 08:00

PROJECT QUALITY CONTROL DATA
Matrix Spike Dup - Cont.

nalyte	Orig. Val.	Duplicate	Q	Units	Spike Conc	% Rec	Target Range	RPD	Limit	Batch	Sample Duplicated	Analyzed Date/Time
olatile Organic Compounds by EPA Method 8260B												
)12507-MSD1												
ı,1-Dichloropropene	ND	51 3		ug/L	50.0	103%	80 - 136	0.8	14	8012507	NRA0822-15	01/16/08 11.11
Ethylbenzene	ND	50 6		ug/L	50 0	101%	80 - 135	1	17	8012507	NRA0822-15	01/16/08 11 11
Iexachlorobutadiene	ND	47 6		ug/L	50 0	95%	48 - 155	0 8	34	8012507	NRA0822-15	01/16/08 11.11
-Hexanone	ND	256		ug/L	250	102%	58 - 154	2	34	8012507	NRA0822-15	01/16/08 11.11
Isopropylbenzene	ND	48.9		ug/L	50 0	98%	80 - 135	2	18	8012507	NRA0822-15	01/16/08 11 11
-Isopropyltoluene	ND	50.0		ug/L	50 0	100%	74 - 139	2	17	8012507	NRA0822-15	01/16/08 11.11
/Iethyl tert-Butyl Ether	ND	49 6		ug/L	50 0	99%	60 - 144	2	32	8012507	NRA0822-15	01/16/08 11 11
Methylene Chloride	ND	51 1		ug/L	50 0	102%	64 - 140	2	18	8012507	NRA0822-15	01/16/08 11·11
-Methyl-2-pentanone	ND	280		ug/L	250	112%	55 - 153	4	31	8012507	NRA0822-15	01/16/08 11 11
Iaphthalene	ND	52.7		ug/L	50 0	105%	50 - 154	4	39	8012507	NRA0822-15	01/16/08 11.11
..-Propylbenzene	ND	49.2		ug/L	50 0	98%	78 - 141	0 8	17	8012507	NRA0822-15	01/16/08 11 11
Styrene	ND	58 3		ug/L	50 0	117%	80 - 139	0 5	16	8012507	NRA0822-15	01/16/08 11 11
,1,1,2-Tetrachloroethane	ND	46 6		ug/L	50 0	93%	75 - 140	2	17	8012507	NRA0822-15	01/16/08 11 11
,1,2,2-Tetrachloroethane	ND	53 0		ug/L	50 0	106%	55 - 152	4	28	8012507	NRA0822-15	01/16/08 11.11
Tetrachloroethene	0 560	50 6		ug/L	50 0	100%	67 - 150	0.7	27	8012507	NRA0822-15	01/16/08 11.11
'oluene	ND	53 4		ug/L	50.0	107%	75 - 139	2	19	8012507	NRA0822-15	01/16/08 11·11
,2,3-Trichlorobenzene	ND	45 1		ug/L	50 0	90%	49 - 144	4	31	8012507	NRA0822-15	01/16/08 11:11
1,2,4-Trichlorobenzene	ND	43.7		ug/L	50 0	87%	55 - 135	2	26	8012507	NRA0822-15	01/16/08 11:11
',1,2-Trichloroethane	ND	51.5		ug/L	50 0	103%	77 - 128	2	21	8012507	NRA0822-15	01/16/08 11:11
,1,1-Trichloroethane	ND	54.2		ug/L	50 0	108%	80 - 136	0.9	16	8012507	NRA0822-15	01/16/08 11:11
'richloroethene	ND	55.1		ug/L	50 0	110%	57 - 158	0 7	28	8012507	NRA0822-15	01/16/08 11:11
Trichlorofluoromethane	ND	49 4		ug/L	50 0	99%	68 - 145	1	20	8012507	NRA0822-15	01/16/08 11 11
,2,3-Trichloropropane	ND	45 1		ug/L	50 0	90%	55 - 137	5	26	8012507	NRA0822-15	01/16/08 11.11
,3,5-Trimethylbenzene	ND	51.5		ug/L	50.0	103%	78 - 136	0 8	16	8012507	NRA0822-15	01/16/08 11 11
1,2,4-Trimethylbenzene	ND	50 8		ug/L	50 0	102%	70 - 143	0 02	22	8012507	NRA0822-15	01/16/08 11.11
/inyl chloride	ND	45 6		ug/L	50 0	91%	49 - 156	0 3	26	8012507	NRA0822-15	01/16/08 11 11
{ylenes, total	ND	152		ug/L	150	101%	80 - 136	2	18	8012507	NRA0822-15	01/16/08 11.11
urrogate: 1,2-Dichloroethane-d4		24 0		ug/L	25 0	96%	60 - 140			8012507	NRA0822-15	01/16/08 11·11
Surrogate· Dibromofluoromethane		25 4		ug/L	25 0	101%	75 - 124			8012507	NRA0822-15	01/16/08 11:11
irrogate· Toluene-d8		25 8		ug/L	25 0	103%	78 - 121			8012507	NRA0822-15	01/16/08 11 11
irrogate 4-Bromofluorobenzene		23.7		ug/L	25 0	95%	79 - 124			8012507	NRA0822-15	01/16/08 11 11

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
2960 Foster Creighton Road Nashville, TN 37204 * 800-765-0980 * Fax 615-726-3404

Client	Hart & Hickman (2162)	Work Order:	NRA0822
	2923 South Tyron Street, Suite 100	Project Name:	GDR-006
	Charlotte, NC 28203-5449	Project Number:	[none]
Attn	Shannon Cottrill	Received:	01/10/08 08:00

CERTIFICATION SUMMARY

TestAmerica Nashville

Method	Matrix	AIHA	Nelac	South Carolina
SW846 8260B	Water	N/A	X	X
SW846 9060A	Water			

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

Client	Hart & Hickman (2162)	Work Order:	NRA0822
	2923 South Tyron Street, Suite 100	Project Name:	GDR-006
	Charlotte, NC 28203-5449	Project Number:	[none]
Attn	Shannon Cottrill	Received:	01/10/08 08:00

DATA QUALIFIERS AND DEFINITIONS

ND Not detected at the reporting limit (or method detection limit if shown)

Pg 1 of 1

TestAmerica
ANALYTICAL TESTING CORPORATION

NRA0822
01/17/08 23:59

To assist us in using the proper analytical methods, is this work being conducted for regulatory purposes?
Compliance Monitoring ______

Client Name: Hart + Hickman, PC
Client #: 2162
Address: 2923 S. Tryon Street Suite 100
City/State/Zip Code: Charlotte NC 28203
Project Manager: Shannon Cottrill
Telephone Number: 704-586-0007
Fax: 704-586-0373
Sampler Name: (Print Name) John Meyer
Sampler Signature:

Project Name: GDR-006
Project #: GDR-006
Site/Location ID: Bamberg
State: SC
Report To: scottrill@harthickman.com
Invoice To:
Quote #:
PO#:

TAT
X Standard
___ Rush (surcharges may apply)

Date Needed: ______

Fax Results: Y N

QC Deliverables
___ None
___ Level 2 (Batch QC)
___ Level 3
___ Level 4
Other: ______

Matrix: SL - Sludge, DW - Drinking Water, GW - Groundwater, S - Soil/Solid, WW - Wastewater, Specify Other

G = Grab, C = Composite

Preservation & # of Containers

SAMPLE ID	Date Sampled	Time Sampled	G = Grab, C = Composite	Field Filtered	Matrix	HNO_3	HCl	NaOH	H_2SO_4	Methanol	None	Other (Specify)	VOCs 8260B (Report EPA 601 (list only))	TOC	REMARKS
MW-1	1/9/08	1100	G		GW		4							X	NRA0822-01
MW-2		940					3								02
MW-3		1005					3								03
MW-3D		1015					3								04
MW-4		1040					3								05
MW-5		925					3								06
MW-6		920					3								07
MW-7		1050					3								08
MW-8		915					3								09
MW-9		905					4							X	10

Special Instructions:

Relinquished By	Date	Time	Received By	Date	Time
Relinquished By:	Date: 1/9/08	Time: 1600	Received By:	Date:	Time:
Relinquished By:	Date:	Time:	Received By:	Date:	Time:
Relinquished By	Date:	Time:	Received By:	Date: 01-10-08	Time: 0800

LABORATORY COMMENTS:
Init Lab Temp:
Rec Lab Temp: 1.3c
Custody Seals: Y N N/A
Bottles Supplied by Test America: Y N
Method of Shipment:

page 2 of 2

TestAmerica
ANALYTICAL TESTING CORPORATION

To assist us in using the proper analytical methods, is this work being conducted for regulatory purposes?
Compliance Monitoring ____________

Client Name: Hart + Hickman PC Client #: 2162
Address: 2923 S. Tryon Street Suite 100
City/State/Zip Code: Charlotte NC 28203
Project Manager: Shannon Cottrill
Telephone Number: 704-586-0373 Fax: 704-586-0373
Sampler Name: (Print Name) John Meyer
Sampler Signature: [illegible]

Project Name: ____________
Project #: GDR-006
Site/Location ID: Bamberg State: SC
Report To: scottrill@harthickman.com
Invoice To: ____________
Quote #: ____________ PO#: ____________

TAT
X Standard
___ Rush (surcharges may apply)

Date Needed: ____________

Fax Results: Y N

QC Deliverables
___ None
___ Level 2 (Batch QC)
___ Level 3
___ Level 4
Other: ________

SAMPLE ID	Date Sampled	Time Sampled	G = Grab, C = Composite	Field Filtered	Matrix: SL - Sludge DW - Drinking Water GW - Groundwater S - Soil/Solid WW - Wastewater Specify Other	HNO_3	HCl	NaOH	H_2SO_4	Methanol	None	Other (Specify)	VOCs 8260B (Report EPA 601 list only)	TOC									REMARKS
MW-9D	1/9/08	900	G		GW		3						X										0022-11
MW-10	↓	835	↓		↓		4						X	X									12
MW-10D	↓	830	↓		↓		3						X										13
MW-11	↓	840	↓		↓		3						X										14
SW-1	↓	845	↓		↓		3						X										15

Special Instructions:

Relinquished By	Date	Time	Received By	Date	Time
[illegible]	1/9/08	1600			
			[illegible]	1-10-08	0800

LABORATORY COMMENTS:
Init Lab Temp:
Rec Lab Temp: 1.3 c
Custody Seals: Y N N/A
Bottles Supplied by Test America: Y N
Method of Shipment:

TestAmerica

Nashville, TN

COOLER REC

NRA0822

Cooler Received/Opened On_01/10/08 @ 08 00

1. Tracking #_5758_(last 4 digits, FedEx)

Courier: ___FED-EX IR Gun ID___A01124

2. Temperature of rep. sample or temp blank when opened: 1.3 Degrees Celsius
3. If Item #2 temperature is 0°C or less, was the representative sample or temp blank frozen? YES NO NA
4. Were custody seals on outside of cooler? YES...NO...NA

   If yes, how many and where: 1-FRONT
5. Were the seals intact, signed, and dated correctly? YES...NO...NA
6. Were custody papers inside cooler? YES...NO...NA

I certify that I opened the cooler and answered questions 1-6 (intial) BN

7. Were custody seals on containers: YES NO and Intact YES...NO...NA

   Were these signed and dated correctly? YES...NO...NA
8. Packing mat'l used? Bubblewrap Plastic bag Peanuts Vermiculite Foam Insert Paper Other None
9. Cooling process: Ice Ice-pack Ice (direct contact) Dry ice Other None
10. Did all containers arrive in good condition (unbroken)? YES...NO...NA
11. Were all container labels complete (#, date, signed, pres., etc)? YES...NO...NA
12. Did all container labels and tags agree with custody papers? YES...NO...NA

13a. Were VOA vials received? YES...NO...NA

b. Was there any observable headspace present in any VOA vial? YES...NO...NA

14. Was there a Trip Blank in this cooler? YES...NO...NA If multiple coolers, sequence #________

I certify that I unloaded the cooler and answered questions 7-14 (intial) ________

15a. On pres'd bottles, did pH test strips suggest preservation reached the correct pH level? YES NO..NA

b. Did the bottle labels indicate that the correct preservatives were used YES...NO...NA

If preservation in-house was needed, record standard ID of preservative used here______________

16. Was residual chlorine present? YES...NO...NA

I certify that I checked for chlorine and pH as per SOP and answered questions 15-16 (intial) W

17. Were custody papers properly filled out (ink, signed, etc)? YES...NO...NA
18. Did you sign the custody papers in the appropriate place? YES...NO...NA
19. Were correct containers used for the analysis requested? YES...NO...NA
20. Was sufficient amount of sample sent in each container? YES...NO...NA

I certify that I entered this project into LIMS and answered questions 17-20 (intial) W

I certify that I attached a label with the unique LIMS number to each container (intial) W

21. Were there Non-Conformance issues at login? YES...NO Was a PIPE generated? YES...NO...#_______