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GE Railcar, Elkton, MD
RSA Project No. 2017-19

2005 Off-Site Investigation Report
April 25, 2006



SDMS DocID 2081198

**2005 OFF-SITE INVESTIGATION
GENERAL ELECTRIC RAILCAR
REPAIR SERVICES FACILITY
TRIUMPH INDUSTRIAL PARK
ELKTON, CECIL COUNTY, MARYLAND**

Prepared for:
GE Railcar Services Corporation
161 North Clark Street
Chicago, Illinois 60601

April 25, 2006

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April 25, 2006

Ms. Barbara Smith, Project Manager
RCRA Operations Branch
United States Environmental Protection Agency, Region III
1650 Arch Street
Philadelphia, PA 19103-2029

RSA Project No. 2017

Re: Submission of 2005 Off-Site Investigation Report, GE Railcar Repair Services Facility,
Elkton, MD;
MDD 078 288 354

Dear Ms. Smith,

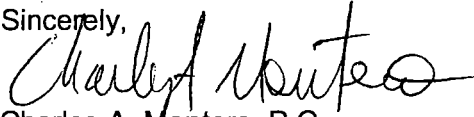
On behalf of GE Railcar Repair Services (GERRS), enclosed are two copies (one original and one duplicate) of the 2005 Off-Site Investigation Report for the GE Railcar facility in Elkton, Maryland.

It is important to stress that by discussing and presenting comparisons of concentrations detected through this study (and previous studies) to the various federal and state levels discussed above, GE Railcar does not imply that any of these various levels would be an appropriate level upon which to base a removal or remedial action. At such time in the future as options for any removal or remedial actions may need to be assessed, GE Railcar intends to pursue discussions with EPA and MDE about appropriate cleanup goals in which property usage and site-specific risk factors would be important considerations.

In addition, counsel to GERRS has asked me to state that, consistent with the position that GERRS has always taken since these investigative efforts began, GERRS is pursuing all of this work entirely as a voluntary matter. GERRS continues to believe there is no RCRA corrective action jurisdiction over the site.

If you have any questions or comments, or would like additional information, please contact Clyde Smith (Vice President, RSA, Inc.) or me at your convenience.

Sincerely,


Charles A. Montero, P.G.
Associate/Senior Hydrogeologist

Cc: Mike O'Toole GE Rail Services
Dick Stoll, Foley & Lardner

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1.0 INTRODUCTION

This report presents the results of the Fall 2005 Off-Site Groundwater Investigation (OGI) conducted at the GE Railcar Repair Services (GE Railcar) facility, located in Elkton, Cecil County, Maryland (Figures 1 and 2). Previous investigations identified the presence of contaminated groundwater along the eastern and southern portions of the facility, which appear to emanate from historical releases. The primary purpose of the Fall 2005 OGI was to determine whether volatile organic compounds (VOCs) found in off-site monitor wells during the Spring 2004 OGI were present hydraulically down-gradient of the existing off-site monitor wells. Additionally, all 60 monitoring wells on site and off site were sampled and analyzed for VOCs.

The Autumn 2001 Site-wide Investigation (2001 SI) and the Spring 2004 OGI identified VOCs above analytical detection limits in groundwater samples collected from on-site and off-site monitor wells. The concentration levels of several VOCs identified near the eastern and northeastern property lines (e.g., benzene, chlorobenzene, and trichloroethene) indicated off-site migration had occurred. Furthermore, concentration levels of several VOCs identified near the southeastern and southern property lines (e.g., 1,1,2,2-tetrachloroethane, tetrachloroethene, and trichloroethene) indicated off-site migration was likely to occur or had occurred in this area. To investigate the extent of VOC off-site migration, GE Railcar proposed to install four additional off-site monitor wells (i.e., OS-MW11, 12, 13, and 14) on adjacent properties and one well (OS-MW15) on GE Railcar's railroad spur (Figures 1 and 2). These five bring the total number of off-site monitor wells to 10. In addition, MW-12 was plugged and abandoned and a replacement well (MW-12R) was installed, due to inconsistent water level measurements and poor recovery during past purging and sampling events. To augment information that was to be gathered from the off-site wells and since all of the on-site monitor wells had not been sampled during one, single event since 2001, GE Railcar proposed collecting groundwater samples from the 50 on-site and 10 off-site monitor wells and analyzing the samples for VOCs.

Access agreements were submitted to adjacent property owners (located hydraulically down-gradient) to gain access to install the additional four off-site wells (i.e., OS-MW11, 12, 13, and 14). A crushed rock road was built along the GE Railcar railroad spur to gain access to the proposed well site for OS-MW15.

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The field methodologies employed during the Fall 2005 OGI were presented in the work plan document entitled "Work Plan To Conduct Off-Site Groundwater Investigation, GE Railcar Repair Services Facility, Elkton, Maryland," dated April 2, 2003. Included as an appendix to the work plan was the document titled "Groundwater Sampling and Analysis Plan for the Off-Site Investigation, General Electric Railcar Repair Services Facility, Triumph Industrial Park, Elkton, Cecil County, Maryland" dated August 9, 2001 and revised March 31, 2003. In addition, investigative activities (i.e., monitor well borehole drilling procedures, sampling procedures, and analytical testing methods) were conducted in accordance with the Quality Assurance Project Plan (QAPP), Version 2, dated March 31, 2003, as well as the Standard Operation Procedures (SOPs), Version 2, dated March 31, 2003, for the GE Railcar facility. These documents, previously submitted to and approved by EPA Region III, provide detailed discussions of all applicable protocols employed during the Fall 2005 OGI.

2.0 SITE DESCRIPTION & BACKGROUND

A review of Figure 1 indicates that the majority of the site is comprised of two parcels, Parcel 300 (17.8311 acres) and Parcel 458 (10.6832 acres), totaling 28.5143 acres. The western edge of these two GE Railcar parcels is bounded by Parcel 554 (owned by GE Railcar), a 20 to 30-foot wide railroad right-of-way extending north and south beyond the operational boundaries of the facility (see inset in Figure 1).

Adjacent property owners include Thiokol Corporation to the northwest and southwest, Maryland Cork Company to the west, and Richard Herron (the Herron Parcel) to the north. James Waters, II owns four parcels: one to the northeast, one to the southeast, and two on the east side. IPI Northeast also owns a parcel along the east side. Schult Business Center, LLC owns the southern parcel on the east side, and Aquafin, Inc. (formerly owned by Central Chemical Corporation) owns the property to the south. With the exception of the Herron Parcel, which is used for agriculture, all other properties are industrial or commercial. The four properties owned by Mr. Waters were undeveloped as of November 2005. The northern portion of the Schult property was developed into a semi-truck and trailer parking area during 2002. The southern portion of the Schult property was developed before 1990.

Topographic elevations across the GE Railcar site range from a high of 92 feet above mean sea level (msl) on the hill along the northern property boundary, to a low of 42 feet msl in the southeast corner of the property. The hill is the dominant topographic and visual feature of the site as it rises steeply from the generally flat, southern two-thirds of the site. The top of the hill, starting at 92 feet msl, falls generally to the south at an approximate 10 percent grade to about 70 feet msl, and thereafter the slope increases to a grade of about 14 percent. The slope breaks at the base of the hill at about 59 feet msl. Continuing south, the property generally flattens to a grade of 2 percent from the 59 feet contour to the low of 42 feet msl.

Surface water run-off from the north is predominantly sheet-flow, although a narrow, shallow channel enters the property just northeast of well MW-8. This channel providing drainage for the farm to the north, meanders west of MW-8, then turns south and continues east of MW-9. Northwest of MW-11, this channel becomes well defined as it straightens and becomes steeper down the south face of the hill. At the toe of the hill, the northern channel again becomes undefined, and sheet-flow drainage predominates. During periods of high flow, water would tend to follow the base of the hill to the east where a defined drainage swale begins northwest of MW-16.

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The other major topographic feature at the site is the central drainage ditch (CDD) which traverses the center of the site from the north to the south for about 600 feet. A sediment-settling basin, approximately 20 feet in diameter, lies at the southern end of the CDD. Drainage continues through a buried culvert to the east into another drainage swale, which continues south and then southeast until it reaches the property boundary.

The CDD generally captures run-off from the western portion of the site, including drainage from the northern and northwestern portions of the hill. East of the CDD, surface topography falls to the east and southeast to be intercepted by the drainage swale along the eastern boundary, where water is directed to the southeast corner of the property and thence off-site.

Because the facility has been vacant since the late-1980s, uncontrolled vegetative cover consisting of a combination of grasses, woody and thorny vines, bushes, scrub trees and small hardwoods have become well established over the southern two-thirds of the site. However, vegetation has been slow to return in areas that were formerly subject to heavy traffic and/or in historic roadways.

The northern hilltop has remained thickly forested with mature hardwoods and evergreens, underlain by woody and thorny vines and small invader trees. Traversing on foot is difficult except on the historic-dirt roads and rail tracks, and on trails currently used by wildlife (e.g., deer).

3.0 FIELD INVESTIGATION

Fall 2005 OGI field work at the GE Railcar facility was completed during two events. The five off-site wells and the one on-site replacement were installed and developed between September 19, 2005 and September 29, 2005. Monitor well head-space measurements, depth to water and total depth measurements, and purging and sampling activities were conducted between October 24, 2005 and November 4, 2005. As mentioned previously, work was completed in accordance with the April 2, 2003 work plan and the March 31, 2003 QAPP.

3.1 BORING AND SOIL SAMPLING PROGRAM

The monitor well pilothole-drilling program was initiated on September 20, 2005 and continued until September 26, 2005. A hollowstem-auger, drilling rig with a three-man crew was used to complete the monitor well pilothole drilling activities. An RSA Hydrogeologist, who logged each boring, accompanied the drilling crew. Logs of each boring are presented in Appendix 1. Figure 2 shows the Fall 2005 OGI off-site monitor well locations relative to the property and other facility monitoring wells. Because the proposed locations were readily accessible, the actual locations closely correlate to the locations proposed in the Spring 2004 OGI report.

The borings were sampled with a split-barrel sampler (i.e., split-spoon) until weathered saprolite was encountered. Boring logs are presented Appendix 1. Soil samples were collected to inspect lithology and to compare the lithology in Fall 2005 OGI borings to from previously completed borings/monitor wells. A portion of each sampled soil interval was placed in a resealable plastic bag. After equilibrating for at least 10 minutes, the soil gasses were measured with an organic vapor analyzer. The readings were recorded on the boring log.

3.2 MONITOR WELL COMPLETIONS

The off-site monitor wells, all of which were completed in the Potomac Group (PG) sediments, were completed as described in the previously submitted work plans. Table 1 presents a summary of the completion data and pertinent elevations. Well completion records are provided in Appendix 3. Screened intervals in the PG wells ranged from 14 feet in the north to 19 feet in the south, depending on the thickness of PG sediments. In the southern portion of the property, the thickness of the PG water-

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bearing interval is greater than 20 feet. Screen length was generally determined from the base of PG sediments upward.

All wells installed during this investigation were developed by pumping and surging methods. Development continued until groundwater was clear and general water-quality parameter measurements (i.e., pH, conductivity, temperature, and turbidity) were relatively stable. In addition, MW-18 was redeveloped because the total-depth measurement indicated the presence of more than six inches of sediment in the well compared to previous total depth measurements.

3.3 GROUNDWATER SAMPLING

Groundwater was sampled using low-flow sampling techniques as described in the April 2, 2003 work plan and March 31, 2003 QAPP. As mentioned previously, samples were analyzed for VOCs. Sampling was accomplished by use of a low-flow, pneumatically activated submersible pump and flow-through cell for water quality measurements. Prior to sampling, depth-to-water was measured and recorded for each well. Calculations were then made to determine if the water level was above or below the top of the well screen. Pump placement was the middle of the well screen interval for sampling when measurements indicated the water level was above the well screen. Since protocol dictated that a maximum drawdown of 10% of the water column was allowable, one well (MW-09) required the pump to be deactivated during purging/sampling; because of slow groundwater recharge. Accordingly, the well was sampled by using a clean, disposable bailer.

Sampling information was recorded on the Purging/Sampling Information Forms for each well. These forms are incorporated into a groundwater-sampling logbook and are presented in this report as Appendix 3.

Water quality measurements were completed as described in the April 2, 2003 work plan and March 31, 2003 QAPP. In addition to the above-mentioned water quality parameters, dissolved oxygen (DO) and oxygen reducing potential (ORP) or Redox, were also measured and recorded. Table 2 presents a summary of water quality parameters.

As mentioned above, DO was monitored in order to aid in determining the effectiveness of purging. Measurements were recorded on the field data sheets. The DO reading is a measurement of the relationship between oxygen-consuming and oxygen-producing

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processes (Hem, 1985). Further, evaluation of DO can provide information about possible natural degradation of carbon based compounds such as volatile organic compounds. These in-situ processes are often referred to as natural attenuation (NA)¹. The type of environment is important when assessing whether these naturally occurring processes are reducing volatile organic compound concentrations. As compounds reduce in oxygen-rich environments (aerobic), the DO concentrations decrease and eventually an oxygen-poor environment (anaerobic) is formed.

Typically, groundwater that is not impacted by organic compounds will exhibit DO readings of less than (<) 4 mg/L (Suthersan, 1997). DO measurements of <1 mg/L indicate anaerobic conditions exist which may be suitable for the reductive dechlorination process; however, DO concentrations of <0.5 mg/L provide the optimum environment² (Wiedemeier *et al.*, 1997). Generally, groundwater DO concentrations within a contaminant plume are lower than the groundwater DO concentrations located hydraulically up-gradient and trans-gradient of the contaminant plume. If site-specific conditions provide the mechanisms for DO concentrations to decrease, then, other naturally occurring substrates, or food sources, are used sequentially during reductive dechlorination.

ORP was also monitored to determine the effectiveness of purging. Again, measurements were recorded on the field data sheets. Once the various water quality parameters had stabilized, the designated well was sampled. The ORP reading is a measurement of the "intensity of oxidizing or reducing conditions within a system" (Hem, 1985). This measurement of electron activity is an indicator of the likelihood of the groundwater containing volatile organic compounds to accept or transfer electrons (ITRC, 1999). Like evaluations of DO concentrations, recognizing ORP trends can provide information about possible natural degradation of volatile organic compounds (i.e., aerobic versus anaerobic environments)³. Generally, the ORP of groundwater

¹ According to US EPA Office of Solid Waste and Emergency Response, the term "natural attenuation" refers to naturally-occurring processes in soil and groundwater environments that act without human intervention to reduce the mass, toxicity, mobility volume or concentration of contaminants in those media. These in-situ processes include biodegradation, dispersion, dilution, adsorption, volatilization and chemical or biological stabilization or destruction of contaminants."

² Reductive dechlorination is the process where a chlorinated compound is converted to another compound or chemical by replacing the chlorine atom(s) with hydrogen atoms.

³ Wiedemeier *et al.*, (1997) states "Redox reaction in groundwater containing organic compounds are usually biologically mediated; therefore, the ORP of a groundwater systems depends on and influences rates of biodegradation."

ranges from -400 to 800 millivolts (mV) with lower readings down to negative readings indicating a reducing environment and higher quantities meaning an oxidative environment (Wiedemeier *et al.*, 1997).

3.4 ORGANIC VAPOR MEASUREMENTS

As described in the April 2, 2003 work plan, soil samples collected during the drilling program and the headspace of each monitor well were measured with an organic vapor analyzer (OVA). Measurements for the soil samples were recorded on the boring logs in Appendix 1. Table 3 presents a tabular summary of the headspace measurements for each GE Railcar monitor well.

The majority of the headspace readings of soil samples from the six monitor wells installed during the Fall 2005 OGI were 0.0 parts per million (ppm). The highest headspace readings were associated with the soil samples collected from MW-12R boring activities (i.e., replacement well installed in the still bottom disposal area). The readings ranged from a low of 2.4 ppm to a high of 7.5. The only other measurable headspace readings were encountered during the boring activities for OS-MW11. Elevated readings were encountered in OS-MW11 saturated soil samples (i.e., below the potentiometric surface/water table); however, saturated soils from other wells completed during this investigation did not have measurable headspace readings. Inspections of the headspace readings, other than MW-12R, show no apparent correlation to groundwater test results.

Inspection of monitor well headspace readings does, generally, indicate a correlation to elevated concentrations of VOCs in groundwater (e.g., MW-12R 39.9 ppm compared to >3.36 mg/L of VOCs, MW-42 264 ppm compared to concentrations of VOCs >2.91 mg/L). Conversely, monitor wells with low or no measurable headspace readings, generally, correlate to wells with no detectable or very low concentrations of VOCs (e.g. MW-22 0 ppm compared to 0.0022 mg/L of 1,1,2,2-tetrachloroethane).

3.5 DECONTAMINATION AND DISPOSITION OF SOIL AND GROUNDWATER

Field equipment and instruments were decontaminated pursuant to the procedures presented in the April 2, 2003 work plan and the March 31, 2003 QAPP. Soil and groundwater generated during drilling, well development and well purging were placed in drums, sealed, labeled as to contents, and staged on the concrete pad near the

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southern property entrance for disposition. The drums were transported off site during the first week of December 2005. Drum handling, transportation and disposal services were provided by Active Environmental, Inc.

3.6 COLLECTION OF FIELD BLANKS, TRIP BLANKS AND DUPLICATES

In accordance with the March 31, 2003 QAPP and the April 2, 2003 work plan, equipment blanks and duplicates (matrix spike and matrix spike duplicate) were collected and analyzed to aid in determining the potential for site conditions to influence analytical results. In addition, trip blanks were provided for each sample cooler and analyzed. The following text discusses collection of the blanks and duplicates and provides a summary of the results, which are also listed on Table 4.

Equipment Blanks were collected every day that groundwater sampling occurred. The Equipment Blanks were analyzed for Maryland Department of the Environment (MDE) VOCs by Method 8260 pursuant to the March 31, 2003 QAPP and the April 2, 2003 work plan. RSA personnel, wearing disposable nitrile gloves and using laboratory supplied reagent water (free of the analytes of interest) filled two - 40 ml glass vials with rinsate from a recently decontaminated groundwater pump.

Acetone was identified in the equipment blank collected on October 29, 2005@ 1905 and in the one collected on October 31, 2005@1450 at concentrations of 0.0095 milligram per liter (mg/L) and 0.0036J mg/L, respectively. Acetone is a common lab contaminant and these results do not indicate an occurrence in the field. No other VOCs were above reportable detection limits in the equipment blanks taken during groundwater sampling.

Analytical tests of the Fall 2005 OGI trip blanks did not identify any VOCs above method detection limits (MDLs).

In addition, RSA personnel collected a Matrix Spike (MS) and Matrix Spike Duplicate (MSD) for every 20 samples submitted for analyses. This consisted of filling three extra sample containers (i.e., 40 ml glass vials) for each MS and three - 40 ml glass vials for each MSD at the designated sample point. Monitor wells MW-10, 32, and 41 were the MD/MSD sampling points.

Based on the third-party data reviewer conclusion, the sample results by a "review of the raw data" found the measurement results to be reliably reported in the Report of

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Analyses." Furthermore, the third-party data reviewer stated that "*data are considered useable for their intended purposes.*"

4.0 HYDROGEOLOGIC CONDITIONS

A detailed discussion of the regional geology for the GE Railcar facility was presented in the 2001 SI report. A summary of the regional geology discussion text is presented below.

4.1 GEOLOGIC CONDITIONS

4.1.1 Regional Geology

The GE Railcar facility is located on the northwestern margin of the Coastal Plain province of Maryland. The Coastal Plain province is underlain by a series of southeasterly dipping layers of sediments that form a wedge-shaped layer resting on the crystalline basement rock of the Piedmont Plateau. These relatively unconsolidated silts, clays, sands, and gravels comprise the Cretaceous Age Potomac Group (PG) and Quaternary alluvium of present and former fluvial (river) environments.

While little study has been conducted of the crystalline bedrock beneath the Coastal Plain, it likely resembles the rocks of the Piedmont Plateau that are predominantly light and dark colored igneous rocks. Chemical weathering of these rocks produces large quantities of micaceous silty clay and clay with fine quartz grains termed "saprolite" (Higgins and Conant, 1986 and Vokes, 1957).

Based on the two reports mentioned above and the Maryland Geological Survey Geologic Map of Maryland (1968), Cretaceous Age, PG sediments crop out at the site and the immediate surroundings. The PG in the Elkton area is described as predominantly interbedded, quartzose gravels, protoquartzitic to orthoquartzitic argillaceous sands, and white, dark gray and multicolored silts and clays, with a thickness of up 800 feet.

4.1.2 Site Geology

Subsurface geologic information collected during the Spring 2004 OGI is presented herein to augment the detailed discussion of the site-specific geology that was presented in the Autumn 2001 SI report. Where appropriate, information from the Fall 2005 OGI is incorporated into the Spring 2004 OGI text that is presented below.

Information gathered during the Fall 2005 OGI soil boring activities was used to

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supplement the two hydrogeologic cross sections presented in the Spring 2004 OGI report (A-A' and B-B', Figures 3 and 4). Fall 2005 OGI cross-section A-A' supplements cross-section A-A' of the Spring 2004 OGI by adding information from well OS-MW13. Fall 2005 OGI cross-section B-B' supplements Spring 2004 OGI cross-section by adding information from wells OS-MW11 and OS-MW12.

Inspection of the Fall 2005 OGI and Spring 2004 OGI cross sections indicates that the subsurface data collected during both of the OGIs correlates to the five hydrogeologic units identified and defined during the Autumn 2001 SI. Lithic contact, grain size, and stratigraphic relationships were used to identify the five hydrogeologic units. For a specific description of each lithology encountered by boring, see Appendix 1.

The unconsolidated units, i.e., PG sediments, underlying the subject property appear to have been deposited in a fluvial environment. The shallowmost sediments are comprised of interbedded clays (sandy and silty) and silts (clayey and sandy) with scattered sand and gravel bars, which are underlain by beds composed predominantly of sands and gravels. This depositional environment produces interbedded and stacked packages, or units, of sediments that are deposited in fining-upward sequences. These units contain coarser grained sediments at the base, such as sandy gravels, that generally grade upward into coarse-grained sands, then to medium-grained sands, to fine-grained sands, to silts and then to clays. These units may repeat themselves and result in a gravel bed on top of a clay bed.

The PG sediments are underlain by a saprolitic unit (i.e., weathered bedrock) hereinafter termed Saprolite in this report. The following text discusses the lithology and stratigraphy in order of deposition (i.e., deepest to shallowest) as illustrated by the cross sections in Figures 3 and 4.

4.1.2.1 Unit I

The lowermost unit encountered beneath the site is a medium green to olive colored Saprolite, although the upper few feet may be purplish-red or white. The replacement components and the large amount of mica present suggest that this unit is a weathered portion of the Elkton-area bedrock. The Saprolite was found between 12.5 feet bgs in MW-27 to 45 feet bgs in MW-40. The surface of the Saprolite is not a flat sloping surface, but an undulating surface following the general regional trend of the slope to the south (see Figure 3). This irregularity in the Saprolite surface is likely the result of the differential weathering and erosional processes. Saprolite encountered during the

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Fall 2005 OGI is located at depths ranging from 36 feet bgs in OS-MW11 to 41.5 feet bgs in OS-MW15, also, saprolite was noted at a depth of 32 feet bgs in replacement well MW-12R.

4.1.2.2 Unit II

Unit II is the lowermost unit of the PG and is comprised of brown sandy silt, light to dark grey, red and brown, sandy clay, silty clay and clay with minor layers of coarse-grained sand and gravel. This unit is located in the central and southeastern portion of the site. The top of Unit II (where present) is encountered between 16 feet bgs in MW-32 and 30 feet bgs in MW-35 with the thickness decreasing from the center outward and displaying a dip to the south. Where present, the thickness ranges between 1 to 17.5 feet. Unit II was not identified in any Fall 2005 OGI off-site soil boring.

4.1.2.3 Unit III

This unit of the PG is a white to light gray, orange and light brown, fine- to coarse-grained sand with pebble to cobble sized gravels and minor layers of white, light gray, light olive gray, and gray red sandy clay and clayey sand. The cobbles and gravels increase in frequency and abundance westward. The top of this unit is encountered between 4 feet bgs in OS-MW4, OS-MW5, and OS-MW13 and 29.5 feet bgs in S-3. Unit III increases in thickness to the south and west with thickness ranging from 2 to 34.5 feet (Figures 3 and 4). This unit represents the first observed sequence of high-energy fluvial deposition.

4.1.2.4 Unit IV

Unit IV represents a second fining upwards package (i.e., coarse-grained sediments at depth overlain by fine-grained sediments) of the PG. The composition of this unit is similar to the underlying Unit III, although clay and clay-rich sands are more common than in Unit III. Unit IV consists of interbedded, fine-to coarse-grained sand and pebble to cobble sized gravels, with thin beds, or seams, of clays, sandy clays, and clayey sands. The cobbles and gravels increase in frequency and abundance westward. Also, Unit IV appears to thin in the central portion of the subject property and thickens to the east and west. The top of this unit varies from 6 feet bgs in MW-27 to 22 feet bgs in S-3. Unit IV was the first unit encountered when completing the soil borings for OS-MW4, 5, and 13.

4.1.2.5 Unit V

Generally, from the surface downward to between 2 feet bgs in MW-16, MW-17 and S-6 and 22 feet bgs in S-3, the strata consists of light to dark brown silts, clayey silts, clays and silty and clayey sands. While all sediment types in this unit contain fine to pebble-sized gravels, the silts and clays are dominant. Thickness of this unit increases to the south (see Figure 3). Unit V appears to pinch out south of the facility seen in cross-section A-A' (Figure 3).

4.2 HYDROLOGIC CONDITIONS

4.2.1 Potomac Group

As shown in the hydrogeologic cross sections depicted in Figures 3 and 4, water levels within the PG sediments generally remain near the top of Unit III in the southern part of the facility or within Unit IV throughout most of the property. Water levels measured during the Fall 2005 OGI are noticeably shallower compared to those encountered during the Spring 2004 OGI, hence, water levels are significantly shallower than those encountered during the Autumn 2001 SI (Table 1). Water level changes range from a high of 3.92 feet in MW-35 to a low of 0.94 feet in MW-8 when comparing the water levels between the OGIs. Water levels within the PG are under water-table (unconfined) to slightly confined conditions, as water levels did not rise significantly from the depth that water was first encountered during the boring program.

Using the water level elevations shown in Table 1, a potentiometric surface map of the PG water-bearing unit is shown in Figure 5. This map indicates that flow is to the south at a fairly constant gradient, and appears to resemble the topographic map shown in Figure 1. The potentiometric surface map (Figure 5) depicts a steep gradient on the northern hill, which becomes steeper down the slope face, and then the gradient gradually flattens over the southern two-thirds of the site. The close correlation between surface topography and the potentiometric surface map also supports the conclusion that the PG sediments are under water-table conditions or slightly confined conditions, as shallow, water-table aquifers generally mirror surface topography.

4.2.1.1 Hydraulic Gradient

Gradient calculations for the steeper portion of the site (from MW-26 south to MW-14) indicate that the gradient from the northern property boundary to near the southern boundary south is 0.0300 feet/foot (Figure 5). Calculations for the southern two-thirds of the site, or lowland area, as represented by flow from MW-14 to MW-44, indicate that the gradient is 0.0101 feet per foot.

4.2.2 Saprolite

Water levels within the Saprolite appear to be under semi-confined conditions as water levels rose to equilibrate within the overlying Potomac Group sediments upon completion during the 2001 SI. The Saprolite appears to be hydraulically connected to the overlying PG sediments in the east-central portion of the site. For example, similar water levels are present in MW-2 & S6 (39.04 feet msl and 39.08 feet msl, respectively); MW-5 & S-4 (44.40 feet msl and 44.44 feet msl, respectively); and MW-18 & S-5 (S6 (41.48 feet msl and 41.25 feet msl, respectively). However, in northeastern portion of the site, water levels are substantially different, e.g., 56.01 feet msl in MW-8 versus 48.48 feet msl in S1, which suggests that the hydraulic connection in this area is limited.

4.2.1.1 Hydraulic Gradient

The potentiometric map of the Saprolite wells (Figure 6) indicates that flow is to the south-southeast. In contrast to the PG potentiometric map (Figure 5), the gradient on the northern hill is actually not as steep as the downhill portion. The most dominant feature of the potentiometric map in Figure 6 is the relatively flat area bounded by wells S2, S3, and S4 (similar to conditions identified during the 2001 SI). This area corresponds to the down-gradient direction of the still bottoms disposal area, which was covered with a clay cap in 1991. It may be the lack of recharge to the PG sediments and the corresponding decrease in recharge to the underlying Saprolite has occurred due to the clay cap. Based on a review of Figure 6, the calculated gradient from well S1 along the northern property boundary to S6 along the east fence line is 0.0146.

5.0 RESULTS OF ON-SITE ENVIRONMENTAL MEASUREMENTS

5.1 Water Quality Parameters

As part of the Fall 2005 OGI, 60 wells (on site and off site) were purged and sampled for VOCs. Water quality parameters of all sampled wells were measured during purging and well sampling activities, except for well MW-9 because volume was insufficient to collect samples for measurement of water quality parameters. Table 2 presents a summary of the final water quality parameters as measured immediately after completion of sampling each well.

5.1.1 pH

As shown in Table 2, pH values for the PG wells range from a low of 3.67 standard units (S.U.) in MW-33 to a high of 7.11 S.U. in MW-5. Thirty-seven of the 44 on-site PG wells sampled during the Fall 2005 OGI had pH readings significantly below 7 S.U. (i.e., <6.0 S.U.), thus, indicating acidic conditions. The measured pH values in these on-site wells ranged from 3.67 S.U. to 5.88 S.U. Seven of the on-site PG wells exhibited relatively neutral pH values during the Fall 2005 OGI sampling event. The neutral values varied from 6.03 S.U. to 7.11 S.U. in these on-site wells. Eight of the ten off-site wells exhibited acidic pH values. The measurements ranged from 4.12 S.U. in OS-MW13 to 5.94 S.U. in OS-MW3. Two of the off-site wells exhibited neutral pH reading (i.e., OS-MW2 and OS-MW12, 6.63 S.U. and 6.24 S.U., respectively). Three saprolite well exhibited acidic pH values: S-1 (5.30 S.U.) S-2 (5.81 S.U.), and S-5 (4.73 S.U.). Three saprolite wells exhibited neutral range pH values: S-3 (6.79 S.U.), S-4 (7.29 S.U.), and S-6 (6.96 S.U.). The pH ranges exhibited by Saprolite wells fall within the expected normal range of naturally occurring groundwater.

5.1.2 Specific Conductance

Specific conductance of PG groundwater was also measured during purging and sampling activities. A review of these specific conductance values shown in Table 2 indicates that PG groundwater in on-site PG wells ranges from a low of 0.055 micro siemens per centimeter (mS/cm) in MW-9 to high of 0.774 mS/cm in MW-23. Conductivity measurements for the off-site PG wells varied from a low of 0.96 mS/cm in OS-MW6 to a high of 0.417 mS/cm in OS-MW-2. Conductivity measurements for the saprolite wells varied from 0.099 mS/cm in S-2 to 0.394 mS/min S-1. All conductivity

values measured during the Fall 2005 OGI were less than 1.000 mS/cm; thus, indicating the groundwater is "fresh".

5.1.3 Dissolved Oxygen & Oxygen Reducing Potential

Dissolved oxygen (DO) measurements recorded during the Fall 2005 OGI are presented in Table 2. The DO measurements of the PG and saprolite wells were used to construct maps illustrating the DO concentrations (Figure 7A and 7B, respectively). Please note, MW-9 did not have sufficient volume of groundwater to measure water quality parameters during the Fall 2005 OGI.

Eighteen of the 43 on-site PG wells sampled during the Fall 2005 OGI exhibited DO concentrations of near 1 mg/l (i.e. <2 mg/l and >0 mg/l), see Figure 7A and Table 2. Test results indicate that all of these monitor wells (with the exception of MW-19) contain VOCs (Table 4). This DO range, i.e., as concentrations approach 0.0 mg/l, is an indicator that an anaerobic environment is present or forming. As illustrated in Figure 7A, the anaerobic conditions are evident in the east central portion (south/southwest of the former still bottoms disposal area) and eastern boundary of the GE Railcar facility which, incidentally, corresponds to the higher concentrations of VOCs (Table 4). This area encompasses about one-third of the site. The remaining two-thirds of the facility exhibits DO concentrations above 3 mg/l that suggests an oxygen-rich environment. DO concentrations of the on-site wells in the west central portion, western and southwestern boundaries may be attributed to a lower natural organic carbon typically associated with the water-bearing matrix⁴ (i.e., high sand, gravelly-sand and gravel content).

Of note, DO readings for MW-42 and MW-44 (17.01 and 12.08 mg/l, respectively) appear to still be elevated, more than likely a result of the chemical oxidation pilot study conducted in 2003.

Six of the off-site wells (OS-MW2, 3, 5, 11, 12, and 14) exhibited DO concentrations that point to an anaerobic environment was present at the time of the sampling event.

⁴ The presence of natural organic carbon influences degradation and movement of compounds of concern (Wiedemeier *et al.*, 1997) as well as providing a baseline to compare uncontaminated versus contaminated areas (Sutherson, 1997).

The DO measurements of remaining four off-site wells (OS-MW4, 4, 13, and 14) indicate an aerobic environment was evident during the Fall 2005 OGI.

Figure 7B illustrates the DO concentration distribution for the six saprolite wells sampled during the Fall 2005 OGI. DO measurements of all six saprolite wells were near or below 1.0 mg/l. These concentrations indicate an anaerobic environment was present or forming during the sampling event.

A review of the ORP readings of the on-site PG wells recorded during the Fall 2005 OGI sampling event shown in Figure 8A and on Table 2. Inspection of the data indicates that recorded measurements appear to be within the expected range of naturally occurring groundwater, -400 to 800 millivolts (mV), (Wiedemeier *et al*, 1997). Furthermore, the readings suggest that conditions amenable for reductive dechlorination could occur once the DO is depleted (i.e., reduce to below 1 mg/L). An ORP level that approaches the optimum range for reductive dechlorination (i.e., ORP: -200 to -300 mV and DO, 1.0 mg/L) was noted in only 15 wells (MW-1, 2, 3, 4, 12R, 13, 15, 16, 17, 18, 19, 21, 22, 32, and 43). These conditions were also noted in six of the off-site wells (OS-MW2, 3, 5, 11, 12, and 14). These wells are located in the east central and along eastern property boundary.

The ORP and DO levels for all six of the saprolite wells encountered during the Fall 2005 OGI indicate that the optimum range for reductive dechlorination is present in the saprolite groundwater regime.

5.2 MONITOR WELL HEAD-SPACE ANALYSES

A review of the monitor well head-space analyses data presented in Table 3 indicates that 47 of the 60 monitor wells did not contain measurable concentrations of organic vapors (i.e., 0.0 parts per million, ppm), and that nine wells contained head-space vapors at concentrations from 0.1 to 10 ppm. The nine wells with headspace readings in this range were: MW-6: 1.0, MW-11: 8.7, MW-34: 2.7, MW-40: 0.9, OS-MW3: 0.7, OS-MW11: 1.5, OS-MW12: 9.4, OS-MW13: 0.3, and OS-MW15: 1.7. Four wells (MW-12R: 39.9, MW-42: 264, S-3: 26.1, and OS-MW2: 25.1) contained vapors at concentrations measured above 10 ppm.

6.0 RESULTS OF LABORATORY ANALYSES

6.1 GROUNDWATER TESTING RESULTS

As mentioned previously, groundwater samples were collected from monitor wells located on the GE Railcar facility and located east and south of the property, i.e., hydraulically down-gradient direction, (Figures 1 and 2). The samples collected during the Fall 2005 OGI sampling activities were submitted for analyses of VOCs. Laboratory data sheets are provided in Appendix 4.

It is important to stress that by discussing and presenting comparisons of concentrations detected through this study (and previous studies) to the various federal and state levels discussed above, GE Railcar does not imply that any of these various levels would be an appropriate level upon which to base a removal or remedial action. At such time in the future as options for any removal or remedial actions may need to be assessed, GE Railcar intends to pursue discussions with EPA and MDE about appropriate cleanup goals in which property usage and site-specific risk factors would be important considerations.

6.1.1 VOCS

Table 4 presents a tabular summary of VOC results in groundwater collected from the 60 facility monitor wells (on site and off site) during the Fall 2005 OGI. Included on Table 4 are the corresponding analytical detection target limits, the MDE Groundwater Standards as published in August 2001, and the EPA National Primary Drinking Water Standards' maximum concentration level, MCL, (if established and published). Inspection of Table 4 indicates that 24 different VOCs were identified in at least one of the groundwater samples collected during the Fall 2005 OGI sampling event. The analytical detection target limits (as presented the April 2, 2003 work plan and March 31, 2003 QAPP) were met for all compounds except for two compounds, dibromochloropropane (0.0002 mg/L) and 1,2-dibromoethane (0.00005 mg/L). The detection limit range achieved by the analytical laboratory for dibromochloropropane was 0.0006 mg/L and 0.010 mg/L (sample from MW-5). The detection limit range for 1,2-dibromoethane was between 0.00052 mg/L and 0.010 mg/L (sample from MW-5). It should be noted that these compounds were not detected at any concentration.

Of the 24 compounds detected, further review of the results in Table 4 indicates the MDE Groundwater Standard (GS) or the EPA National Primary Drinking Water

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Standards' MCL for the following twelve VOCs was exceeded in at least one well:

Acetone	cis-1,2-dichloroethene (DCE)	Tetrachloroethene (PCE)
Benzene	trans-1,2-dichloroethene (DCE)	Toluene
Chlorobenzene	trans-1,3-dichloropropene	Trichloroethene (TCE)
1,2-dichloroethane (DCA)	1,1,2,2-tetrachloroethane (PCA)	vinyl chloride

The occurrence and distribution of benzene, chlorobenzene, 1,1,2,2-PCA, PCE, and TCE have been mapped for PG and saprolite water-bearing units and are presented in Figures 9A & B, 10A & B, 11A & B, 12A & B, and 13A & B, respectively.

Acetone was reported to be in 51 groundwater samples, of which 23 results exceeded the MDE GS. An MCL has not been established for acetone. Acetone is a common lab contaminant and these results do not necessarily indicate an occurrence in the field, further evidenced by the presence of acetone in two field blanks.

1,2-DCA was identified in seven wells sampled during the Fall 2005 OGI sampling event; however, only one well above the MDE GS and EPA MCL of 0.005 mg/L: MW-42 at 0.0072mg/L.

Cis-1,2-DCE was identified in 27 wells sampled during the Fall 2005 OGI sampling event; however the EPA MCL and MDE GS of 0.070 mg/L was exceeded in only three wells (MW-42: 1.05 mg/L, MW-44: 0.644 mg/L OS-MW14: 0.0852mg/L). The occurrence of cis-1,2-DCE corresponds to areas where PCE and TCE have been identified, which is expected since it is a breakdown, or daughter, product of these two compounds.

Trans-1,3-dichloropropene was identified in one well above the MDE GS of 0.001 mg/L: MW-23 at 0.0031mg/L. An EPA MCL has not been published for trans-1,3-dichloropropene.

Trans-1,2-DCE was identified in 18 wells sampled during the Fall 2005 OGI sampling event; however the EPA MCL and MDE Groundwater Standard of 0.100 mg/L was exceeded in only two wells (MW-42: 0.691 mg/L and MW-44: 0.408mg/ L). The

occurrence of cis-1,2-DCE corresponds to areas where PCE and TCE have been identified, which is expected since it is a breakdown, or daughter, product of these two compounds.

Toluene was identified in 3 wells sampled during the Fall 2005 OGI sampling event; however the EPA MCL and MDE GS of 1.0 mg/L was exceeded in only one well (MW-12R: 1.96 mg/L). The occurrence of toluene in MW-12R corresponds to former still bottoms disposal area where paint related materials were identified during assessment and cleanup activities in the late 1980s and early 1990s, respectively.

Vinyl Chloride was identified in ten wells sampled during the Fall 2005 OGI sampling event; however the EPA MCL and MDE GS of 0.002 mg/L was exceeded in only four wells (MW-12R: 0.0193, MW-17: 0.0068, MW-42: 0.0836 mg/L, and MW-44: 0.030 mg/L). The occurrence of vinyl chloride corresponds to areas where PCE and TCE have been identified, which is expected since it is a breakdown, or daughter, product of these two compounds.

6.1.1.1 Benzene

Figures 9A and 9B present isopleth maps of benzene concentrations in the PG and saprolite water-bearing units, respectively. As shown on Figure 9A, the only occurrence of benzene is down-gradient of the still bottom disposal area⁵ (SBDA). The location of the benzene plume is south of the SBDA where benzene was detected at a concentration of 1380 mg/kg in still bottom material disposed within this area.

Figure 9B depicts the benzene plume in the down-gradient direction of the SBDA.

The EPA MCL and MDE GS are both 0.005 mg/L for benzene; this standard is shown on both of the figures.

6.1.1.2 Chlorobenzene

Figures 10A and 10B present isopleth maps of chlorobenzene concentrations in the PG and saprolite water-bearing units, respectively. Figure 10A map indicates a

⁵ Delineation and removal activities of the materials disposed in the SBDA were summarized in the Autumn 2001 SI report. Documents specifically detailing field activities, transportation and disposal and approved closure documentation were submitted previously to the MDE and the US EPA.

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concentration plume of 0.100 mg/L is emanating from the SBDA, where chlorobenzene was detected previously at a concentration of 990 mg/kg in still bottom material. The plume continues southeasterly along the eastern property boundary and appears to expand laterally as the plume moves to the south. This portion of the plume is composed of lower chlorobenzene concentrations (<0.011 mg/L).

Figure 10B shows the chlorobenzene plume emanating from the SBDA.

The EPA MCL MDE GS for chlorobenzene is 0.100 mg/L and 0.011 mg/L, respectively; both of these standards are shown on Figures 10A and 10B.

6.1.1.3 1,1,2,2-Tetrachloroethane

Figures 11A and 11B present isopleth maps of 1,1,2,2-PCA concentrations in the PG and saprolite water-bearing units, respectively. Figure 11A indicates that two distinct plumes are present at the site. The first plume emanates from the vicinity of the SBDA, where 1,1,2,2-PCA was detected at 51.8 mg/kg in the still bottom material. The second plume covers most of the southern portion of the property, and contains four areas of significant concentrations. The first area is centered near MW-42 Area of Concern (MW-42/MW-44: 0.876 mg/L and 0.556 mg/L, respectively) in the southeast corner of the property. 1,1,2,2-PCA was detected in shallow soil samples from MW-42 during the Autumn 2001 SI. Detailed discussions were presented in the report titled "Soil Investigation Report, MW-42 Area of Concern General Electric Railcar Repair Services Facility, Triumph Industrial Park, Elkton, Cecil County, Maryland" dated December 20, 2004. The second area within the southern plume is in the vicinity of MW-37 (0.293 mg/L) and MW-40 (0.058 mg/L). A third area of elevated concentrations is around well MW-32 (0.203 mg/L). The fourth area exhibiting elevated 1,1,2,2-PCA levels is located off-site in the southeast direction near wells OS-MW13 (0.173 mg/L) and OS-MW14 (0.218 mg/L). A review of the GE Railcar historical process areas (1979 to 1989) indicates that neither GE Railcar nor its predecessors operated in this area.

Figure 11B shows an area of elevated 1,1,2,2-PCA concentration around S-5 (0.0016 mg/L), just above the detection limit of 0.001 mg/L.

An EPA MCL has not been published for 1,1,2,2 PCA; thus, the MDE GS of 0.001 mg/L is shown on Figures 11A and 11B.

6.1.1.4 Tetrachloroethene

Figures 12A and 12B present isopleth maps of PCE concentrations in the PG and saprolite water-bearing units, respectively. Figure 12A indicates that two spatially separated plumes exist. The first plume is centered and down-gradient of the SBDA. The second (and laterally extensive) plume extends from MW-28 (0.0034 mg/L) in the north-central portion of the property to MW-40 (0.011 mg/L) and MW-42 (0.0064 mg/L) along the southern property boundary. Then, the plume extends off-site to OS-MW4 (0.0017 mg/L), OS-MW5 (0.0015 mg/L), OS-MW13 (0.010 mg/L), and OS-MW14 (0.001 mg/L).

PCE was identified in seven off-site wells south of the site (hydraulically down-gradient direction), i.e., OS-MW4 (0.0017 mg/L), OS-MW5 (0.0015 mg/L), OS-MW6 (0.0016 mg/L), OS-MW11 (0.0014 mg/L), OS-MW13 (0.010 mg/L), OS-MW14 (0.001 mg/L), and OS-MW15 (0.0007J). Based on analytical test results and hydraulic characteristics of the shallow water-bearing sediments, PCE has migrated off site to the west and south of the GE Railcar facility.

Figure 12B shows that PCE concentration levels have not been detected above EPA and MDE standards. PCE was identified in only one well (S-5) at a concentration (0.006J) low enough to be "J" flagged, meaning the compound is present below target detection limit.

The EPA MCL and MDE GS are both 0.005 mg/L for PCE. This concentration is shown on Figure 12A.

6.1.1.5 Trichloroethene

Figure 13A and 13B present isopleth maps of TCE concentrations in the PG and saprolite water-bearing units, respectively. One plume with two distinct lobes has been mapped; one of which is adjacent to the SBDA where TCE was detected in the still bottom material at a concentration of 580 mg/kg. Test results of groundwater samples collected from off site wells indicates that the plume has migrated off site. The second area covers almost the entire central and southern portion of the facility. Analytical tests identified TCE in soil samples from several borings during the MW-42MW-44 (51 mg/Kg) area of concern investigation (refer to MW-42 AOC report dated December 20, 2004). Based on analytical test results and hydraulic characteristics of the shallow

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water-bearing sediments, TCE appears to have migrated off site to the east and south of the GE Railcar facility.

Figure 13B shows that TCE concentration levels have not been detected EPA and MDE standard. PCE was identified in only two wells S-4 (0.0007J mg/L) and S-5 (0.0011mg/L).

The EPA MCL and MDE GS are both 0.005 mg/L for TCE; this standard is shown on Figure 13A.

6.2 THIRD-PARTY DATA REVIEW OF LABORATORY RESULTS

Third-party data review of laboratory results were conducted in accordance with the Quality Assurance Project Plan (QAPP), Version 2, dated March 31, 2003, as well as the Standard Operation Procedures (SOPs), Version 2, dated March 31, 2003, for the GE Railcar facility. These documents, previously submitted to and approved by EPA Region III, provide detailed discussions of all applicable protocols employed during the CDI. A copy of the data review report is provided in Appendix 6.

Based on the third-party data reviewer conclusion, the sample results by a "*review of the raw data*" found the measurement results to be reliably reported in the Report of Analyses." Furthermore, the third-party data reviewer stated that "*data are considered useable for their intended purposes.*"

7.0 DISTRIBUTION OF CONTAMINANTS

Based on the evaluation of the 2005 and 2004 OGI field investigation activities and the laboratory analyses, contaminants of concern identified during the Autumn 2001 SI have also been identified off site (see Figures 9A through 13A) in three separate areas. The contaminants identified off-site appear to be a continuation of the on-site plumes detected in the vicinity of the SBDA, the MW-42 AOC, and the general area from MW-28 to MW-37/MW-40. These observations confirm earlier data interpretation efforts that the site had been impacted by at least two separate release areas that have resulted in soil and groundwater contamination. These areas encompass: 1) the SBDA and 2) the southeastern property area near wells MW-42 and MW44. The third area is an expanse of groundwater contamination (noted during the Autumn 2001 SI) that trends from around MW-28 south to the area around wells MW-37 and MW-40 near the southwestern property corner. Soil contamination was not identified in the MW-28 to MW-37/40 plume area.

SBDA Plume Area

The groundwater plume area emanating from the SBDA is composed of constituents found in still bottom material. The individual constituent plumes are shown to have migrated off-site as illustrated in Figures 9A (Benzene), 10A, and 13A, and potentially as shown in Figures 11A and 12A. The groundwater contaminant plume area is composed primarily of benzene, chlorobenzene, and TCE, and to a lesser extent 1,1,2,2 PCA and PCE. Benzene and chlorobenzene were identified in off-site wells OS-MW2, OS-MW3, OS-MW11, and OS-MW12; thus, confirming off-site migration of SBDA constituents. The chlorobenzene plume exceeding the MDE Drinking Water Standard of 0.011 ug/L encompasses the largest lateral extent in this area; approximately 1000 feet from north to south and extends about 400 feet west of the property line.

The benzene plume is generally located within the footprint of the chlorobenzene plume. The TCE plume is situated within and to the north of the chlorobenzene plume. The PCE plume is generally located within the TCE footprint. The 1,1,2,2-PCA plume area is generally located within the chlorobenzene and TCE plume footprints

MW-42 Area of Concern

The Autumn 2001 SI identified an area of impacted soil and groundwater in the vicinity

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of MW-42. Analytical test results of groundwater samples collected during the Spring 2004 and 2005 OGI's confirmed the occurrence of the compounds. Also, a soil investigation was conducted in the MW-42 area and conclusions were presented in a report submitted under separate cover. These same constituents (e.g., 1,1,2,2-PCA, PCE, etc.) were identified in the off-site wells that were installed in the hydraulically down-gradient direction (see Figures 9A through 13A). The off-site wells (OS-MW4 and OS-MW5) impacted by these contaminants are located about 80 feet and 410 feet southeast of the facility's southeast property corner, respectively.

OS-MW13 and OS-MW14, installed in 2005, also contain 1,1,2,2-PCA and TCE above the EPA Drinking Water Standards, and well OS-MW14 contains PCE above the EPA Standard, as well. Concentrations of VOCs in these two wells are higher than in wells OS-MW4 and OS-MW5 suggesting that another source area, south of GE Railcar may be contributing to the groundwater plumes.

The concentrations and the vertical distribution of contaminants in the MW-42 area of concern suggest that a release, or releases, occurred near this well, although the nature and timing of the release has not been determined. Other than an abandoned sanitary sewer shown on GE Railcar historical facility drawings (i.e. 1979 to 1989), no known GE Railcar process areas or facility buildings were located near or within the MW-42 area of concern between 1979 and 1989 (approximate timeframe of GE Railcar operations).

MW-28 to MW37/40 Area

Further inspection of the Autumn 2001 SI, Spring 2004 OGI, and the 2005 OGI test results identified an area of groundwater contamination that trends from MW-28 south to wells MW-37 and 40 near the southwestern property corner. Soil contamination was not found in this area. In reviewing GE Railcar historical process areas identified in facility drawings dating between circa 1979 and 1989, it does not appear that GE Railcar or its predecessors operated in this area suggesting that there are other localized spills of unknown origin in this area. Furthermore, it should be noted that commercial/industrial activities occurred on-site prior to GE Railcar tenure (i.e., initial property development circa early 1940s to late 1970s).

For example, elevated VOC concentrations in the vicinity of MW-28 have not been

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identified in up-gradient soil samples or vadose zone/soil gas⁶ measurements up-gradient. However, groundwater contamination extends from MW-28 south to the southwestern property corner, about 1,280 feet, near MW-37 and MW-40. Test results from groundwater collected from off-site well OS-MW6 during the 2004 OGI indicate that 1,1,2,2-PCA and PCE were present in the groundwater. During the 2005 OGI, the 1,1,2,2-PCA concentration decreased in this well to below the laboratory RQ, and PCE decreased to almost the RQ. VOCs were not detected in well OS-MW15, down-gradient of OS-MW6.

Additional wells exhibiting elevated concentrations of VOCs include MW-31, -32, -33, -36, -37, and -38, although the relationship of the detected compounds to former railcar facility use is not suspected.

⁶A soil gas survey was conducted north (topographically up-gradient) of MW-28 in the summer of 2003. The investigation did not identify a source of soil or groundwater contamination in the area.

8.0 CONCLUSIONS

Analytical test results of groundwater samples collected during the Fall 2005 OGI support the findings of the Autumn 2001 SI and Spring 2004 OGI. These findings include:

Groundwater migrating down-gradient of the SBDA contains constituents identified in still bottom material,

Groundwater emanating from the MW-42 AOC contains similar constituents identified in soil samples collected from the area;

Groundwater containing VOCs identified on GE Railcar facility are migrating off-site (i.e., SBDA area, MW-42 area of concern and MW28 to MW37/40 area);

Test results of groundwater samples collected from wells southeast of the SBDA indicate that in some instances, levels of benzene, chlorobenzene, and TCE appear to be higher off-site than on-site.

9.0 REFERENCES

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Rosengarten, Smith & Associates, Inc.

GE Railcar, Elkton, MD
RSA Project No. 2017-19

Off-Site Investigation Report
April 25, 2006

FIGURES

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Figure 1 - Plot Plan and Topographic Survey

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Figure 2 - Monitor Well and Cross-Section line location
map

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Figure 3 - Line of Section A-A'

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Figure 5 - Potentiometric Surface Map of Potomac

Group

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Figure 6 - Potentiometric Surface Map of Saprofite

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Figure 7A - Potomac Group Groundwater Dissolved
oxygen Isopleth Map

Document is available at the EPA Region 3 Superfund Records Center.

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Figure 7B - Saprolite Groundwater Dissolve Oxygen

Isopleth map



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Figure 8A - Potomac Group Groundwater Oxygen Reducing Potential (ORP) Isopleth map

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Figure 9B - Saprolite Groundwater Oxygen Reducing

Potential (ORP) Isoleth Map

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Figure 9A - Potomac Group Groundwater Benzene

Isopleth Map

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Figure 9B - Saprolite Groundwater Benzene Iso plath Map

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Figure 10A - Potomac Group Groundwater Chlorobenzene
Isopleth Map

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Figure 10B - Saprolite Groundwater Chlorobenzene

Isopleth Map

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Figure 11A - Potomac Group Groundwater 1,1,2,2, Tetrachloroethane

Isopleth map

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Figure 11B - Saprolite Groundwater 1,1,2,2, Tetrachloroethane

Isopleth Map

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Figure 12A. Potomac Group Groundwater

Tetrachloroethene (PCE) Isopleth Map

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Figure 12B - Saprolite Groundwater Tetrachloroethene (PCE)

Iso plath map

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Figure 13A- Potomac Group Groundwater Trichloroethylene
(TCE) Isoplth Map

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Figure 13B - Saphrolite Groundwater Trichloroethene (TCE)

Isopleth Map

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Rosengarten, Smith & Associates, Inc.

GE Railcar, Elkton, MD
RSA Project No. 2017-19

Off-Site Investigation Report
April 25, 2006

TABLES

TABLE 1
MONITOR WELL COMPLETION DATA AND WATER LEVEL MEASUREMENTS
2005 OFF-SITE INVESTIGATION
GE RAILCAR, ELKTON, MARYLAND

Monitor Well	Date	Ground Surface Elevation (ft. msl)	Top of Casing Elevation (ft. msl)	Measured Well Depths (ft.)	Screen Length (ft.)	Top of Screen Elevation (ft. msl)	Bottom of Screen Elevation (ft. msl)	Depth to Water (ft. btoc)	Water Level Elevation (ft. msl)
MW-1	12/02/01	56.79	58.51	29.76	10.00	38.79	28.79	21.80	36.71
	04/01/04			29.79				17.70	40.81
	10/26/05			29.77				19.15	39.36
MW-2	12/02/01	57.22	58.47	29.74	10.00	39.22	29.22	21.73	36.74
	04/01/04			29.76				17.92	40.55
	10/26/05			29.75				19.43	39.04
MW-3	12/02/01	58.36	59.89	26.47	10.00	43.36	33.36	22.28	37.61
	04/01/04			26.44				18.22	41.67
	10/26/05			26.46				19.97	39.92
MW-4	12/02/01	64.54	66.35	31.31	10.00	45.54	35.54	23.17	43.18
	04/01/04			31.35				19.83	46.52
	10/26/05			31.36				21.95	44.40
MW-5	12/02/01	66.44	68.38	34.12	10.00	43.44	33.44	25.10	43.28
	04/01/04			34.14				21.27	47.11
	10/26/05			34.14				23.31	45.07
MW-6	12/02/01	74.71	76.27	39.32	10.00	46.71	36.71	30.31	45.96
	04/01/04			39.35				28.71	47.56
	10/26/05			39.35				28.81	47.46
MW-7	12/02/01	79.37	81.45	42.61	10.00	50.87	40.87	33.57	47.88
	04/01/04			40.67				32.20	49.25
	10/26/05			40.69				32.20	49.25
MW-8	12/02/01	73.77	75.38	22.29	10.00	62.77	52.77	19.87	55.51
	04/01/04			22.36				18.43	56.95
	10/26/05			22.37				19.37	56.01
MW-9	12/02/01	71.31	74.07	27.14	5.00	52.43	47.43	DRY	<46.93
	04/01/04			26.91				25.50	48.57
	10/26/05			26.92				22.58	51.49
MW-10	12/02/01	77.72	80.66	43.33	10.00	47.83	37.83	34.29	46.37
	04/01/04			43.68				32.68	47.98
	10/26/05			43.69				32.64	48.02
MW-11	12/02/01	70.89	73.78	34.42	10.00	49.86	39.86	29.08	44.70
	04/01/04			34.24				24.88	48.90
	10/26/05			34.24				27.64	46.14
MW-12	12/02/01	69.42	72.27	37.55	10.00	45.22	35.22	36.97	35.30
	04/01/04			37.49				3.17	69.10
	09/27/05			ABANDONED					
MW-12R	10/26/05	69.34	71.78	35.42	14.65	51.44	36.79	26.33	45.45
MW-13	12/02/01	68.80	71.80	28.32	5.00	48.80	43.80	27.53	44.27
	04/01/04			28.13				24.81	46.99
	10/26/05			28.13				26.96	44.84
MW-14	12/02/01	58.30	60.39	30.37	15.00	45.30	30.30	17.11	43.28
	04/01/04			30.39				13.13	47.26
	10/26/05			30.39				15.74	44.65
MW-15	12/02/01	58.62	60.82	31.55	15.00	44.77	29.77	17.72	43.10
	04/01/04			31.49				13.91	46.91
	10/26/05			31.48				16.47	44.35
MW-16	12/02/01	57.66	60.79	25.44	10.00	45.85	35.85	17.24	43.55
	04/01/04			25.38				13.47	47.32
	10/26/05			25.38				16.08	44.71
MW-17	12/02/01	59.93	62.44	29.98	10.00	42.96	32.96	21.82	40.62
	04/01/04			29.97				19.88	42.56
	10/26/05			29.96				21.29	41.15
MW-18	12/02/01	58.77	60.63	24.54	10.00	46.59	36.59	20.10	40.53
	04/01/04			22.83				14.94	45.69
	10/26/05			22.13				19.15	41.48

See last page for notes

QA/QC by:	MRW 11-17-05
	CAM 02-03-06
	CAM 02-06-06

TABLE 1
MONITOR WELL COMPLETION DATA AND WATER LEVEL MEASUREMENTS
2005 OFF-SITE INVESTIGATION
GE RAILCAR, ELKTON, MARYLAND

Monitor Well	Date	Ground Surface Elevation (ft. msl)	Top of Casing Elevation (ft. msl)	Measured Well Depths (ft.)	Screen Length (ft.)	Top of Screen Elevation (ft. msl)	Bottom of Screen Elevation (ft. msl)	Depth to Water (ft. btoc)	Water Level Elevation (ft. msl)
MW-19	12/02/01	57.70	60.43	24.66	10.00	46.27	36.27	20.56	39.87
	04/01/04			24.50				16.85	43.58
	10/26/05			24.50				19.29	41.14
MW-20	12/02/01	57.06	59.87	29.89	10.00	40.48	30.48	23.63	36.24
	04/01/04			30.15				18.24	41.63
	10/26/05			30.13				20.79	39.08
MW-21	12/02/01	54.48	57.28	39.86	15.00	32.92	17.92	22.65	34.63
	04/01/04			39.81				17.68	39.60
	10/26/05			39.81				20.03	37.25
MW-22	12/02/01	53.47	56.32	38.05	20.00	38.77	18.77	20.10	36.22
	04/01/04			38.00				16.14	40.18
	10/26/05			38.00				17.79	38.53
MW-23	12/02/01	47.92	51.13	38.89	20.00	32.74	12.74	16.89	34.24
	04/01/04			38.90				12.25	38.88
	10/26/05			38.89				14.34	36.79
MW-24	12/02/01	84.75	87.83	35.26	10.00	63.07	53.07	29.40	58.43
	04/01/04			35.21				27.32	60.51
	10/26/05			35.21				28.43	59.40
MW-25	12/02/01	89.06	92.26	36.98	10.00	65.78	55.78	34.45	57.81
	04/01/04			36.93				32.48	59.78
	10/26/05			36.93				33.48	58.78
MW-26	12/02/01	84.50	87.63	39.04	10.00	59.09	49.09	31.32	56.31
	04/01/04			39.35				29.41	58.22
	10/26/05			39.36				30.37	57.26
MW-27	12/02/01	62.07	64.64	14.66	5.00	55.48	50.48	10.18	54.46
	04/01/04			14.61				6.01	58.63
	10/26/05			14.61				8.87	55.77
MW-28	12/02/01	72.52	75.49	27.79	10.00	58.20	48.20	21.66	53.83
	04/01/04			27.76				18.93	56.56
	10/26/05			27.76				20.09	55.40
MW-29	12/02/01	58.23	60.09	23.54	10.00	46.73	36.73	18.10	41.99
	04/01/04			23.54				12.56	47.53
	10/26/05			23.53				15.62	44.47
MW-30	12/02/01	55.95	58.38	22.64	10.00	46.24	36.24	14.63	43.75
	04/01/04			22.58				10.07	48.31
	10/26/05			22.58				12.25	46.13
MW-31	12/02/01	55.04	57.97	41.69	15.00	31.78	16.78	19.18	38.79
	04/01/04			41.64				13.54	44.43
	10/26/05			41.64				16.56	41.41
MW-32	12/02/01	52.00	54.59	31.88	20.00	43.21	23.21	13.39	41.20
	04/01/04			31.81				9.06	45.53
	10/26/05			31.80				11.99	42.60
MW-33	12/02/01	51.33	54.00	36.09	25.00	43.41	18.41	14.80	39.20
	04/01/04			34.85				10.32	43.68
	10/26/05			34.84				13.09	40.91
MW-34	12/02/01	53.04	55.18	43.58	20.00	31.54	11.54	19.53	35.65
	04/01/04			43.53				13.90	41.28
	10/26/05			43.53				17.09	38.09
MW-35	12/02/01	50.55	52.40	35.05	20.00	37.55	17.55	17.21	35.19
	04/01/04			34.98				11.56	40.84
	10/26/05			34.97				15.48	36.92
MW-36	12/02/01	48.66	50.38	33.45	15.00	32.66	17.66	15.77	34.61
	04/01/04			33.55				10.49	39.89
	10/26/05			33.55				13.16	37.22

See last page for notes

QA/QC by:	MRW 11-17-05
	CAM 02-03-06
	CAM 02-06-06

TABLE 1
MONITOR WELL COMPLETION DATA AND WATER LEVEL MEASUREMENTS
2005 OFF-SITE INVESTIGATION
GE RAILCAR, ELKTON, MARYLAND

Monitor Well	Date	Ground Surface Elevation (ft. msl)	Top of Casing Elevation (ft. msl)	Measured Well Depths (ft.)	Screen Length (ft.)	Top of Screen Elevation (ft. msl)	Bottom of Screen Elevation (ft. msl)	Depth to Water (ft. btoc)	Water Level Elevation (ft. msl)
MW-37	12/02/01	49.72	51.59	33.93	20.00	37.72	17.72	17.61	33.98
	04/01/04			34.00				12.29	39.30
	10/26/05			34.01				15.46	36.13
MW-38	12/02/01	49.86	51.75	35.75	15.00	30.86	15.86	18.65	33.10
	04/01/04			36.08				13.54	38.21
	10/26/05			36.07				16.11	35.64
MW-39	12/02/01	48.34	50.07	34.32	20.00	36.34	16.34	17.00	33.07
	04/01/04			34.28				11.72	38.35
	10/26/05			34.28				15.00	35.07
MW-40	12/02/01	51.87	53.87	47.45	20.00	26.37	6.37	21.42	32.45
	04/01/04			47.56				15.81	38.06
	10/26/05			47.57				19.08	34.79
MW-41	12/02/01	48.91	50.82	38.83	20.00	32.41	12.41	19.00	31.82
	04/01/04			38.82				13.25	37.57
	10/26/05			38.83				16.45	34.37
MW-42	12/02/01	48.43	51.60	38.40	20.00	33.70	13.70	21.05	30.55
	04/01/04			38.29				15.45	36.15
	10/26/05			38.30				18.37	33.23
MW-43	04/01/04	56.76	59.08	33.11	10.60	36.96	26.36	18.43	40.65
	10/26/05			33.11				19.92	39.16
MW-44	04/01/04	48.48	50.58	40.31	19.45	30.48	11.03	14.58	36.00
	10/26/05			40.32				17.50	33.08
S-1	12/02/01	72.74	75.17	41.64	10.00	44.03	34.03	28.47	46.70
	04/01/04			41.62				25.84	49.33
	10/26/05			41.63				26.69	48.48
S-2	12/02/01	76.95	79.97	58.09	10.00	32.92	22.92	36.70	43.27
	04/01/04			57.66				33.41	46.56
	10/26/05			57.67				34.95	45.02
S-3	12/02/01	69.46	71.49	53.95	10.00	27.46	17.46	28.45	43.04
	04/01/04			53.92				24.92	46.57
	10/26/05			53.94				26.90	44.59
S-4	12/02/01	67.76	70.06	47.05	10.00	33.51	23.51	26.98	43.08
	04/01/04			47.05				23.46	46.60
	10/26/05			47.06				25.62	44.44
S-5	12/02/01	58.96	61.21	38.80	10.00	32.91	22.91	21.43	39.78
	04/01/04			38.79				18.06	43.15
	10/26/05			38.80				19.96	41.25
S-6	12/02/01	56.90	59.09	50.27	10.00	19.32	9.32	22.21	36.88
	04/01/04			50.28				18.30	40.79
	10/26/05			50.29				20.01	39.08
OS-MW-2	04/01/04	60.58	62.42	35.09	14.00	42.38	28.38	21.56	40.86
	10/26/05			35.08				22.68	39.74
OS-MW-3	04/01/04	54.00	55.93	39.27	19.00	36.80	17.80	15.94	39.99
	10/26/05			39.14				17.24	38.69
OS-MW-4	04/01/04	38.36	40.28	32.17	19.00	28.16	9.16	9.03	31.25
	10/26/05			32.18				9.03	31.25
OS-MW-5	04/01/04	37.05	39.09	37.50	19.00	21.85	2.85	9.83	29.26
	10/26/05			37.45				11.86	27.23
OS-MW-6	04/01/04	45.54	47.73	41.25	19.00	25.87	6.87	10.15	37.58
	10/26/05			41.25				13.62	34.11
OS-MW-11	10/26/05	54.86	54.66	36.83	19.65	37.96	18.31	18.19	36.47
OS-MW-12	10/26/05	48.95	51.49	40.42	19.65	31.05	11.40	15.93	35.56
OS-MW-13	10/26/05	33.55	33.07	39.18	19.65	14.65	-5.00	7.89	25.18
OS-MW-14	10/26/05	42.15	41.98	38.21	19.65	24.25	4.60	16.67	25.31
OS-MW-15	10/26/05	42.34	45.25	37.79	19.65	27.44	7.79	11.85	33.40

Notes:
MSL = Mean Sea Level
BTOC = Below Top-of-Casing

QA/QC by:	MRW 11-17-05
	CAM 02-03-06
	CAM 02-06-06

TABLE 2
SUMMARY OF WATER QUALITY PARAMETERS
2005 OFF-SITE INVESTIGATION
GE RAILCAR, ELKTON, MARYLAND

Monitor Well	Date	Time	pH	Specific Conductance (mS/Cm)	Temp. (°C)	Dissolved Oxygen (mg/l)	Redox (mV)	Turbidity (NTU)
MW-1	10/29/05	16:17	6.20	0.492	12.73	1.32	-192	1.21
MW-2	10/28/05	16:42	6.72	0.342	13.29	0.18	-299	11.7
MW-3	10/29/05	14:46	5.88	0.273	14.32	0.22	-284	6.14
MW-4	11/01/05	13:48	6.25	0.472	13.72	0.29	-232	3.9
MW-5	11/01/05	17:24	7.11	0.597	13.05	3.31	-116	5.02
MW-6	11/02/05	16:33	3.70	0.201	13.00	5.88	438	32.5
MW-7	11/02/05	13:06	4.10	0.242	13.40	5.05	380	44
MW-8	11/02/05	09:48	4.29	0.218	14.00	7.25	445	32.6
MW-9	11/02/05	12:10	5.82	0.055	13.90	NM	NM	NM
MW-10	11/02/05	18:23	4.72	0.198	12.11	5.15	-88	42.8
MW-11	11/02/05	15:19	4.16	0.212	13.10	3.67	280	20.4
MW-12R	11/02/05	17:32	5.73	0.401	12.50	0.89	-32	9.3
MW-13	11/01/05	16:01	4.24	0.157	15.42	1.47	-83	4.57
MW-14	10/31/05	10:49	4.80	0.172	16.12	4.81	-64	1.98
MW-15	10/30/05	16:40	4.99	0.122	14.85	0.40	-182	12.6
MW-16	10/30/05	14:59	5.66	0.200	15.42	0.25	-237	6.78
MW-17	10/28/05	14:11	5.08	0.142	14.82	0.21	-256	0.94
MW-18	11/01/05	09:50	5.48	0.181	16.38	0.21	-222	1.89
MW-19	10/30/05	12:34	5.62	0.200	15.06	1.84	-126	2.93
MW-20	10/29/05	17:56	5.53	0.283	13.66	3.23	-150	34.5
MW-21	10/30/05	10:48	4.76	0.283	14.10	0.32	-222	99
MW-22	10/29/05	08:28	5.04	0.302	12.00	1.89	288	239
MW-23	10/29/05	09:59	3.70	0.774	12.80	1.92	351	>999
MW-24	11/01/05	12:36	4.03	0.168	13.20	5.72	468	130
MW-25	11/01/05	13:40	4.28	0.173	13.80	8.70	473	174
MW-26	11/01/05	16:57	4.39	0.191	12.90	8.36	431	115
MW-27	11/01/05	09:43	3.89	0.172	16.60	3.00	468	567
MW-28	11/01/05	15:48	4.16	0.190	14.40	8.45	468	22.4
MW-29	10/31/05	16:35	4.58	0.135	14.70	5.36	411	44.1
MW-30	11/01/05	11:30	4.45	0.086	17.37	6.04	1	3.12
MW-31	10/31/05	15:39	4.52	0.107	13.30	7.51	436	23.3
MW-32	10/31/05	15:56	6.03	0.191	15.65	0.40	-215	14.66
MW-33	10/30/05	08:44	3.67	0.196	14.20	3.87	520	59.5
MW-34	10/30/05	12:55	4.68	0.129	13.00	6.97	442	80.5
MW-35	10/30/05	10:05	3.69	0.536	16.80	4.30	507	3.69
MW-36	10/30/05	11:35	4.46	0.157	14.60	0.88	438	10.8
MW-37	10/30/05	14:29	3.77	0.129	15.00	3.83	511	61.9
MW-38	10/29/05	17:53	4.07	0.224	13.00	0.95	482	103.3
MW-39	11/01/05	11:05	4.49	0.081	13.30	5.13	456	45
MW-40	10/29/05	16:56	4.99	0.088	13.00	4.26	363	57.6
MW-41	10/29/05	15:28	5.09	0.244	14.20	5.11	371	126
MW-42	10/29/05	13:27	6.22	0.198	13.40	17.01	387	70
MW-43	10/29/05	11:00	5.46	0.319	12.97	0.14	-279	77
MW-44	10/29/05	12:40	6.39	0.097	13.40	12.08	322	137

See last page for notes

TABLE 2
SUMMARY OF WATER QUALITY PARAMETERS
2005 OFF-SITE INVESTIGATION
GE RAILCAR, ELKTON, MARYLAND

Monitor Well	Date	Time	pH	Specific Conductance (mS/Cm)	Temp. (°C)	Dissolved Oxygen (mg/l)	Redox (mV)	Turbidity (NTU)
OSMW-2	10/28/05	12:03	6.63	0.417	12.98	0.24	-291	74.5
OSMW-3	10/27/05	19:29	5.94	0.319	12.25	0.31	-241	56.5
OSMW-4	10/27/05	17:19	4.27	0.247	16.20	2.51	322	25.7
OSMW-5	10/27/05	18:05	5.53	0.270	16.60	1.13	60	46.6
OSMW-6	10/27/05	10:40	5.08	0.096	13.70	5.55	218	132
OSMW-11	10/27/05	17:48	5.79	0.239	13.99	0.40	-172	108
OSMW-12	10/27/05	13:07	6.24	0.412	15.40	0.22	-115	46.1
OSMW-13	10/28/05	17:27	4.12	0.270	14.70	2.78	328	2.4
OSMW-14	10/27/05	10:05	4.71	0.314	13.55	0.98	-155	62
OSMW-15	10/27/05	09:18	4.60	0.131	13.50	7.97	255	20.2
S-1	11/02/05	10:49	5.30	0.394	13.60	1.39	148	44.9
S-2	11/02/05	17:03	5.81	0.099	12.68	0.42	-177	3.87
S-3	11/02/05	13:07	6.79	0.202	13.68	0.72	-184	2.46
S-4	11/02/05	10:42	7.29	0.352	15.59	1.04	-91	5.55
S-5	10/31/05	13:30	4.73	0.175	16.22	0.54	-176	40.6
S-6	10/29/05	09:44	6.96	0.248	11.92	1.04	-210	9.38

Notes:

NM = Not Measured

mS/Cm = milliSiemens per centimeter

mg/l = milligrams per liter

mV = millivolts

NTU = Nephelometric Turbidity Units

MW-9 was bailed and not micro-purged

QA/QC by:	MRW 11-18-05
	CAM 02-07-06

**TABLE 3
MONITOR WELL HEADSPACE MEASUREMENTS
2005 OFF-SITE INVESTIGATION
OCTOBER 25, 2005
GE RAILCAR, ELKTON, MARYLAND**

Monitor Well	Date	Headspace (ppmV)
MW-1	11/28/01	20
	03/31/04	0
	10/25/05	0
MW-2	11/28/01	200
	03/31/04	0
	10/25/05	0
MW-3	11/28/01	0
	03/31/04	0.1
	10/25/05	0
MW-4	11/28/01	0
	03/31/04	5.7
	10/25/05	0
MW-5	11/28/01	100
	03/31/04	0
	10/25/05	0
MW-6	11/28/01	60
	03/31/04	4.9
	10/25/05	1.0
MW-7	11/28/01	0
	03/31/04	0
	10/25/05	0
MW-8	11/28/01	20
	03/31/04	0
	10/25/05	0
MW-9	11/28/01	7820
	03/31/04	0
	10/25/05	0
MW-10	11/28/01	0
	03/31/04	53.5
	10/25/05	0
MW-11	11/28/01	0
	03/31/04	8.1
	10/25/05	8.7
MW-12	11/28/01	0
	03/31/04	1.7
MW-12R	10/25/05	39.9
MW-13	11/28/01	20
	03/31/04	2.9
	10/25/05	0
MW-14	11/28/01	20
	03/31/04	0
	10/25/05	0
MW-15	11/28/01	0
	03/31/04	0
	10/25/05	0
MW-16	11/28/01	0
	03/31/04	0
	10/25/05	0
MW-17	11/28/01	20
	03/31/04	3.3
	10/25/05	0
MW-18	11/28/01	0
	03/31/04	2.3
	10/25/05	0
MW-19	11/28/01	2040
	03/31/04	0
	10/25/05	0

Monitor Well	Date	Headspace (ppmV)
MW-20	11/28/01	4280
	03/31/04	0
	10/25/05	0
MW-21	11/28/01	120
	03/31/04	0
	10/25/05	0
MW-22	11/28/01	420
	03/31/04	0
	10/25/05	0
MW-23	11/28/01	80
	03/31/04	6.9
	10/25/05	0
MW-24	11/28/01	200
	03/31/04	0
	10/25/05	0
MW-25	11/28/01	0
	03/31/04	0
	10/25/05	0
MW-26	11/28/01	0
	03/31/04	0
	10/25/05	0
MW-27	11/28/01	0
	03/31/04	0
	10/25/05	0
MW-28	11/28/01	420
	03/31/04	0.9
	10/25/05	0
MW-29	11/28/01	420
	03/31/04	0
	10/25/05	0
MW-30	11/28/01	100
	03/31/04	0
	10/25/05	0
MW-31	11/28/01	40
	03/31/04	0
	10/25/05	0
MW-32	11/28/01	40
	03/31/04	0
	10/25/05	0
MW-33	11/28/01	0
	03/31/04	0
	10/25/05	0
MW-34	11/28/01	180
	03/31/04	0.8
	10/25/05	2.7
MW-35	11/28/01	0
	03/31/04	0
	10/25/05	0
MW-36	11/28/01	120
	03/31/04	0
	10/25/05	0
MW-37	11/28/01	240
	03/31/04	1.7
	10/25/05	0
MW-38	11/28/01	40
	03/31/04	0.1
	10/25/05	0

Monitor Well	Date	Headspace (ppmV)
MW-39	11/28/01	80
	03/31/04	0
	10/25/05	0
MW-40	11/28/01	20
	03/31/04	5.3
	10/25/05	0.9
MW-41	11/28/01	160
	03/31/04	9.7
	10/25/05	0
MW-42	11/28/01	920
	03/31/04	20.5
	10/25/05	264
MW-43	11/28/01	NA
	03/31/04	0
	10/25/05	0
MW-44	11/28/01	NA
	03/31/04	0.1
	10/25/05	0
S-1	11/28/01	40
	03/31/04	0
	10/25/05	0
S-2	11/28/01	20
	03/31/04	0
	10/25/05	0
S-3	11/28/01	0
	03/31/04	0
	10/25/05	26.4
S-4	11/28/01	60
	03/31/04	2.9
	10/25/05	0
S-5	11/28/01	160
	03/31/04	0
	10/25/05	0
S-6	11/28/01	0
	03/31/04	0
	10/25/05	0
OS-2	03/31/04	8.5
	10/25/05	25.1
OS-3	03/31/04	2.3
	10/25/05	0.7
OS-4	03/31/04	0
	10/25/05	0
OS-5	03/31/04	0
	10/25/05	0
OS-6	10/25/05	0
OS-11	10/25/05	1.5
OS-12	10/25/05	9.4
OS-13	10/25/05	0.3
OS-14	10/25/05	0
OS-15	10/25/05	1.7

QA/QC by:	MRW 11-17-05
	CAM 02-07-05

Notes:
ppmV = parts per million vapor

TABLE 4
SUMMARY OF VOC RESULTS IN GROUNDWATER
2005 OFF-SITE INVESTIGATION
GE RAILCAR, ELKTON, MARYLAND

Volatile Organic Compounds milligrams/liter	Analytical Detection Target ¹	MDE Groundwater Standard ²	EPA National Water Standards ³	MW-1	MW-1	MW-2	MW-2*	MW-2	MW-3	MW-3	MW-4	MW-4	MW-4	MW-5
				11/05/01 @ 0933	10/28/05 @ 1620	11/04/01 @ 0957	11/21/03	10/28/05 @ 1645	11/05/01 @ 1129	10/29/05 @ 1450	11/03/01 @ 1639	03/28/04 @ 1350	11/01/05 @ 1353	11/02/01 @ 0955
Acetone	0.16	0.061	NE	<0.010	0.123	<0.010	0.032	0.0512	<0.010	0.0957	0.010	0.071	0.0458	<0.10
Benzene	0.005	0.005	0.005	<0.001	<0.001	0.024	0.0098	0.0215	<0.001	<0.001	0.014	0.018	0.0655	0.026
Bromodichloromethane	0.10	0.080	NE	<0.001	<0.001	<0.001	<0.00055	<0.001	<0.001	<0.001	<0.001	<0.00055	<0.001	<0.010
Bromoform	0.10	0.080	NE	<0.001	<0.001	<0.001	<0.00053	<0.001	<0.001	<0.001	<0.001	<0.00053	<0.001	<0.010
Bromomethane	0.0022	0.001	NE	<0.002	<0.001	<0.002	<0.0023	<0.001	<0.002	<0.001	<0.002	<0.0023	<0.001	<0.020
2-Butanone	0.94	0.19	NE	<0.010	<0.005	<0.010	0.179	<0.005	<0.010	<0.005	<0.010	<0.0025	<0.005	<0.100
Carbon Disulfide	0.083	0.10	NE	<0.002	<0.001	<0.002	<0.00061	<0.001	<0.002	<0.001	<0.002	<0.00061	<0.001	<0.020
Carbon Tetrachloride	0.005	0.005	0.005	<0.001	<0.001	<0.001	<0.00066	<0.001	<0.001	<0.001	<0.001	<0.00066	<0.001	<0.010
Chlorobenzene	0.10	0.011	0.10	0.009	<0.001	0.40	0.749	0.381	0.026	0.0159	0.053	0.14	0.935	1.20
Chloroethane	0.016	0.0036	NE	<0.002	<0.001	<0.002	<0.00082	<0.001	<0.002	<0.001	<0.002	<0.00082	0.0013	<0.020
Chloroform	0.10	0.080	NE	<0.001	<0.001	<0.001	<0.00052	<0.001	<0.001	<0.001	<0.001	<0.00052	<0.001	<0.010
Chloromethane	0.011	0.0021	NE	<0.002	<0.001	<0.002	<0.00075	<0.001	<0.002	<0.001	<0.002	<0.00075	<0.001	<0.020
Dibromochloromethane	0.10	0.080	NE	<0.001	<0.001	<0.001	<0.00051	<0.001	<0.001	<0.001	<0.001	<0.00051	<0.001	<0.010
Dibromochloropropane	0.0002	0.001	0.0002	<0.001	<0.001	<0.001	<0.0006	<0.001	<0.001	<0.001	<0.001	<0.0006	<0.001	<0.010
1,2-Dibromoethane	0.00005	0.001	NE	<0.001	<0.001	<0.001	<0.00052	<0.001	<0.001	<0.001	<0.001	<0.00052	<0.001	<0.010
1,1-Dichloroethane	0.16	0.080	NE	<0.001	<0.001	0.002	<0.00065	0.0008 J	<0.001	<0.001	<0.001	<0.00065	0.0014	<0.010
1,2-Dichloroethane	0.005	0.005	0.005	<0.001	<0.001	<0.001	<0.00055	<0.001	<0.001	<0.001	<0.001	<0.00055	0.0011	<0.010
1,1-Dichloroethene	0.007	0.007	0.007	<0.001	<0.001	<0.001	<0.00057	<0.001	<0.001	<0.001	<0.001	<0.00057	<0.001	<0.010
cis-1,2-Dichloroethene	0.070	0.070	0.070	<0.001	<0.001	<0.001	0.0007	<0.001	<0.001	0.0008 J	<0.001	<0.00055	0.0022	<0.010
trans-1,2-Dichloroethene	0.10	0.10	0.10	<0.001	<0.001	<0.001	0.0012	<0.001	<0.001	0.0007 J	<0.001	<0.00059	0.0012	<0.010
Methylene Chloride	0.005	0.005	0.005	<0.001	<0.001	<0.001	<0.00055	<0.001	<0.001	<0.001	<0.001	<0.00055	<0.001	<0.010
1,2-Dichloropropane	0.005	0.005	0.005	<0.001	<0.001	<0.001	<0.00062	<0.001	<0.001	<0.001	<0.001	<0.00062	<0.001	<0.010
cis-1,3-Dichloropropene	0.0073	0.001	NE	<0.001	<0.001	<0.001	<0.00056	<0.001	<0.001	<0.001	0.004	<0.00056	<0.001	<0.010
trans-1,3-Dichloropropene	0.0073	0.001	NE	<0.001	<0.001	<0.001	<0.00049	<0.001	<0.001	<0.001	<0.001	<0.00049	<0.001	<0.010
Ethylbenzene	0.70	0.70	0.70	<0.001	<0.001	0.007	<0.00058	0.0016	<0.001	<0.001	<0.001	<0.00058	0.0023	<0.010
2-Hexanone	0.027	0.15	NE	<0.010	<0.005	<0.010	<0.0013	<0.005	<0.010	<0.005	<0.010	<0.0013	<0.005	<0.100
Isopropylbenzene	0.16	0.066	NE	<0.001	<0.001	<0.001	<0.00052	<0.001	<0.001	<0.001	<0.001	<0.00052	0.0039	<0.010
4-Methyl-2-pentanone	0.13	0.050	NE	<0.010	<0.005	<0.010	<0.0015	<0.005	<0.010	<0.005	<0.010	<0.0015	<0.005	<0.100
Methyl-tert-butyl-ether	0.020	0.020	NE	<0.001	<0.001	<0.001	<0.00048	<0.001	<0.001	0.0008 J	<0.001	<0.00048	<0.001	<0.010
Styrene	0.10	0.10	0.10	<0.001	<0.001	<0.001	<0.0011	<0.001	<0.001	<0.001	<0.001	<0.0011	<0.001	<0.010
Tetrachloroethene	0.005	0.005	0.005	<0.001	<0.001	<0.001	<0.00067	<0.001	<0.001	<0.001	<0.001	<0.00067	<0.001	<0.010
1,1,2,2-Tetrachloroethane	0.0037	0.001	NE	<0.001	0.0012	<0.001	0.0007	<0.001	0.001	<0.001	<0.001	<0.00044	<0.001	<0.010
Toluene	1.0	1.0	1.0	<0.001	<0.001	<0.001	<0.00064	<0.001	<0.001	<0.001	<0.001	<0.00064	0.0006 J	<0.010
1,1,1-Trichloroethane	0.20	0.20	0.20	<0.001	<0.001	<0.001	<0.00057	<0.001	<0.001	<0.001	<0.001	<0.00057	<0.001	<0.010
1,1,2-Trichloroethane	0.005	0.005	0.005	<0.001	<0.001	<0.001	<0.00059	<0.001	<0.001	<0.001	<0.001	<0.00059	<0.001	<0.010
Trichloroethene	0.005	0.005	0.005	<0.001	0.001	<0.001	<0.00065	<0.001	<0.001	<0.001	0.005	<0.00065	0.0015	<0.010
Vinyl Chloride	0.002	0.002	0.002	<0.002	<0.001	<0.002	<0.00055	<0.001	<0.002	0.001	<0.002	<0.00055	0.0018	<0.020
Xylenes	10	10	10	<0.002	<0.003	<0.002	<0.0023	<0.003	<0.002	<0.003	<0.002	<0.0023	<0.003	<0.020

Notes:

- Analytical detection target is equivalent to MDE Groundwater Standards as published in "MDE Clean-Up Standards for Soil and Groundwater, Interim Final Guidance, December 2000."
- MDE Groundwater Standards as published in "MDE Clean-Up Standards, Update No. 1, August 2001."
- EPA National Primary Drinking Water Standards. www.epa.gov/safewater
- Concentrations exceeding MDE Non Residential Clean-Up Standard marked in bold with bold outline. Shaded cells exceed the EPA National Primary Drinking Water Standards.
- NE = Not Established
- NA = Not Analyzed
- * Analytical results after 6 month pilot study test

7. Data Qualifiers:

- J - The analyte was positively identified; the associated numerical value is the approx. concentration of the analyte in the sample.
- UJ - Not detected; quantitation limit may be inaccurate or imprecise
- < - analyte not detected at or above the indicated concentration.

QA/QC by:	BSG 02-06-06
	GBC 02-08-06
	Cam 2/15/06

TABLE 4
SUMMARY OF VOC RESULTS IN GROUNDWATER
2005 OFF-SITE INVESTIGATION
GE RAILCAR, ELKTON, MARYLAND

Volatile Organic Compounds milligrams/liter	Analytical Detection Target ¹	MDE Groundwater Standard ²	EPA National Water Standards ³	MW-5	MW-6	MW-6	MW-6	MW-7	MW-7	MW-8	MW-8	MW-9	MW-9
				11/01/05 @ 1731	11/01/01 @ 1332	03/29/04 @ 0912	11/02/05 @ 1636	11/01/01 @ 1030	11/02/05 @ 1310	11/02/01 @ 0821	11/02/05 @ 0955	03/31/04 @ 0926	11/02/05 @ 1210
Acetone	0.16	0.061	NE	0.0118	<0.010	0.019	0.111	<0.010	<0.005	<0.010	0.0065	2.4 J	0.487
Benzene	0.005	0.005	0.005	<0.001	<0.001	<0.00063	<0.001	<0.001	<0.001	<0.001	<0.001	<0.00063	<0.001
Bromodichloromethane	0.10	0.080	NE	<0.001	<0.001	<0.00055	<0.001	<0.001	<0.001	<0.001	<0.001	<0.00055	<0.001
Bromoform	0.10	0.080	NE	<0.001	<0.001	<0.00053	<0.001	<0.001	<0.001	<0.001	<0.001	<0.00053	<0.001
Bromomethane	0.0022	0.001	NE	<0.001	<0.002	<0.0023	<0.001	<0.002	<0.001	<0.002	<0.001	<0.0023 UJ	<0.001
2-Butanone	0.94	0.19	NE	<0.005	<0.010	<0.0025	<0.005	<0.010	<0.005	<0.010	<0.005	<0.0025	<0.005
Carbon Disulfide	0.083	0.10	NE	<0.001	<0.002	<0.00061	<0.001	<0.002	<0.001	<0.002	<0.001	<0.00061 UJ	<0.001
Carbon Tetrachloride	0.005	0.005	0.005	<0.001	<0.001	<0.00066	<0.001	<0.001	<0.001	<0.001	<0.001	<0.00066	<0.001
Chlorobenzene	0.10	0.011	0.10	0.0008 J	<0.001	<0.00062	<0.001	<0.001	<0.001	<0.001	<0.001	<0.00062	<0.001
Chloroethane	0.016	0.0036	NE	<0.001	<0.002	<0.00082	<0.001	<0.002	<0.001	<0.002	<0.001	<0.00082	<0.001
Chloroform	0.10	0.080	NE	<0.001	<0.001	<0.00052	<0.001	<0.001	<0.001	<0.001	<0.001	<0.00052	<0.001
Chloromethane	0.011	0.0021	NE	<0.001	<0.002	<0.00075	<0.001	<0.002	<0.001	<0.002	<0.001	<0.00075 UJ	<0.001
Dibromochloromethane	0.10	0.080	NE	<0.001	<0.001	<0.00051	<0.001	<0.001	<0.001	<0.001	<0.001	<0.00051	<0.001
Dibromochloropropane	0.0002	0.001	0.0002	<0.001	<0.001	<0.0006	<0.001	<0.001	<0.001	<0.001	<0.001	<0.0006	<0.001
1,2-Dibromoethane	0.00005	0.001	NE	<0.001	<0.001	<0.00052	<0.001	<0.001	<0.001	<0.001	<0.001	<0.00052	<0.001
1,1-Dichloroethane	0.16	0.080	NE	<0.001	<0.001	<0.00065	<0.001	<0.001	<0.001	<0.001	<0.001	<0.00065	<0.001
1,2-Dichloroethane	0.005	0.005	0.005	<0.001	<0.001	<0.00055	<0.001	<0.001	<0.001	<0.001	<0.001	<0.00055	<0.001
1,1-Dichloroethene	0.007	0.007	0.007	<0.001	<0.001	<0.00057	<0.001	<0.001	<0.001	<0.001	<0.001	<0.00057	<0.001
cis-1,2-Dichloroethene	0.070	0.070	0.070	<0.001	0.003	0.013	0.003	<0.001	<0.001	<0.001	<0.001	<0.00055	<0.001
trans-1,2-Dichloroethene	0.10	0.10	0.10	<0.001	<0.001	<0.00059	<0.001	<0.001	<0.001	<0.001	<0.001	<0.00059	<0.001
Methylene Chloride	0.005	0.005	0.005	<0.001	<0.001	<0.00055	<0.001	<0.001	<0.001	<0.001	<0.001	<0.00055	<0.001
1,2-Dichloropropane	0.005	0.005	0.005	<0.001	<0.001	<0.00062	<0.001	<0.001	<0.001	<0.001	<0.001	<0.00062	<0.001
cis-1,3-Dichloropropene	0.0073	0.001	NE	<0.001	<0.001	<0.00056	<0.001	<0.001	<0.001	<0.001	<0.001	<0.00056	<0.001
trans-1,3-Dichloropropene	0.0073	0.001	NE	<0.001	<0.001	<0.00049	<0.001	<0.001	<0.001	<0.001	<0.001	<0.00049	<0.001
Ethylbenzene	0.70	0.70	0.70	<0.001	<0.001	<0.00058	<0.001	<0.001	<0.001	<0.001	<0.001	<0.00058	<0.001
2-Hexanone	0.027	0.15	NE	<0.005	<0.010	<0.0013	<0.005	<0.010	<0.005	<0.010	<0.005	<0.0013	<0.005
Isopropylbenzene	0.16	0.066	NE	<0.001	<0.001	<0.00052	<0.001	<0.001	<0.001	<0.001	<0.001	<0.00052	<0.001
4-Methyl-2-pentanone	0.13	0.050	NE	<0.005	<0.010	<0.0015	<0.005	<0.010	<0.005	<0.010	<0.005	<0.0015	<0.005
Methyl-tert-butyl-ether	0.020	0.020	NE	<0.001	<0.001	<0.00048	0.0006 J	<0.001	0.0024	<0.001	0.0011	<0.00048	<0.001
Styrene	0.10	0.10	0.10	<0.001	<0.001	<0.0011	<0.001	<0.001	<0.001	<0.001	<0.001	<0.0011	<0.001
Tetrachloroethene	0.005	0.005	0.005	<0.001	0.002	0.010	0.0026	<0.001	<0.001	<0.001	<0.001	<0.00067	<0.001
1,1,2,2-Tetrachloroethane	0.0037	0.001	NE	<0.001	<0.001	0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.00044	<0.001
Toluene	1.0	1.0	1.0	<0.001	<0.001	<0.00064	<0.001	<0.001	<0.001	<0.001	<0.001	<0.00064	<0.001
1,1,1-Trichloroethane	0.20	0.20	0.20	<0.001	<0.001	0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.00057	<0.001
1,1,2-Trichloroethane	0.005	0.005	0.005	<0.001	<0.001	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.00059	<0.001
Trichloroethene	0.005	0.005	0.005	<0.001	0.028	0.10	0.0262	<0.001	<0.001	<0.001	<0.001	<0.00065	<0.001
Vinyl Chloride	0.002	0.002	0.002	<0.001	<0.002	<0.00055	<0.001	<0.002	<0.001	<0.002	<0.001	<0.00055 UJ	<0.001
Xylenes	10	10	10	<0.003	<0.002	<0.0023	<0.003	<0.002	<0.003	<0.002	<0.003	<0.0023	<0.003

Notes:

- Analytical detection target is equivalent to MDE Groundwater Standards as published in "MDE Clean-Up Standards for Soil and Groundwater, Interim Final Guidance, December 2000."
- MDE Groundwater Standards as published in "MDE Clean-Up Standards, Update No. 1, August 2001."
- EPA National Primary Drinking Water Standards. www.epa.gov/safewater
- Concentrations exceeding MDE Non Residential Clean-Up Standard marked in bold with bold outline. Shaded cells exceed the EPA National Primary Drinking Water Standards.
- NE = Not Established
- NA = Not Analyzed
- * Analytical results after 6 month pilot study test

7. Data Qualifiers:

- J - The analyte was positively identified; the associated numerical value is the approx. concentration of the analyte in the sample.
- UJ - Not detected; quantitation limit may be inaccurate or imprecise
- < - analyte not detected at or above the indicated concentration.

QA/QC by:	BSG 02-06-06
	GBC 02-08-06

TABLE 4
SUMMARY OF VOC RESULTS IN GROUNDWATER
2005 OFF-SITE INVESTIGATION
GE RAILCAR, ELKTON, MARYLAND

Volatile Organic Compounds milligrams/liter	Analytical Detection Target ¹	MDE Groundwater Standard ²	EPA National Water Standards ³	MW-10	MW-10	MW-10	MW-11	MW-11	MW-12	MW-12	MW-12R	MW-13	MW-13
				11/09/01 @ 1154	03/28/04 @ 1101	11/02/05 @ 1830	11/09/01 @ 1406	11/02/05 @ 1525	11/30/01 @ 1030	03/28/04 @ 0834	11/02/05 @ 1737	03/28/04 @ 1635	11/01/05 @ 1608
Acetone	0.16	0.061	NE	<0.010	0.016	0.0157	<0.010	0.266	0.051	0.030 J	0.153	0.11 J	0.724
Benzene	0.005	0.005	0.005	<0.001	<0.00063	<0.001	<0.001	<0.001	<0.001	<0.00063	0.135	0.045	0.0006 J
Bromodichloromethane	0.10	0.080	NE	<0.001	<0.00055	<0.001	<0.001	<0.001	<0.001	<0.00055	<0.001	<0.00055	<0.001
Bromoform	0.10	0.080	NE	<0.001	<0.00053	<0.001	<0.001	<0.001	<0.001	<0.00053	<0.001	<0.00053	<0.001
Bromomethane	0.0022	0.001	NE	<0.002	<0.0023	<0.001	<0.002	<0.001	<0.002	<0.0023	<0.001	<0.0023	<0.001
2-Butanone	0.94	0.19	NE	<0.010	<0.0025	<0.005	<0.010	<0.005	0.040	<0.0025	<0.005	<0.0025	<0.005
Carbon Disulfide	0.083	0.10	NE	<0.002	<0.00061	<0.001	<0.002	<0.001	<0.002	<0.00061	<0.001	<0.00061	<0.001
Carbon Tetrachloride	0.005	0.005	0.005	<0.001	<0.00066	<0.001	<0.001	<0.001	<0.001	<0.00066	<0.001	<0.00066	<0.001
Chlorobenzene	0.10	0.011	0.10	<0.001	<0.00062	<0.001	0.008	0.0102	0.014	0.003	0.17	0.041	0.0011
Chloroethane	0.016	0.0036	NE	<0.002	<0.00082	<0.001	<0.002	<0.001	<0.002	<0.00082	<0.001	<0.00082	<0.001
Chloroform	0.10	0.080	NE	<0.001	<0.00052	<0.001	<0.001	<0.001	<0.001	<0.00052	<0.001	<0.00052	<0.001
Chloromethane	0.011	0.0021	NE	<0.002	<0.00075	<0.001	<0.002	<0.001	<0.002	<0.00075	<0.001	<0.00075	<0.001
Dibromochloromethane	0.10	0.080	NE	<0.001	<0.00051	<0.001	<0.001	<0.001	<0.001	<0.00051	<0.001	<0.00051	<0.001
Dibromochloropropane	0.0002	0.001	0.0002	<0.001	<0.0006	<0.001	<0.001	<0.001	<0.001	<0.0006	<0.001	<0.0006	<0.001
1,2-Dibromoethane	0.00005	0.001	NE	<0.001	<0.00052	<0.001	<0.001	<0.001	<0.001	<0.00052	<0.001	<0.00052	<0.001
1,1-Dichloroethane	0.16	0.080	NE	<0.001	<0.00065	<0.001	0.001	0.0018	<0.001	<0.00065	0.0024	0.001	<0.001
1,2-Dichloroethane	0.005	0.005	0.005	<0.001	<0.00055	<0.001	<0.001	<0.001	<0.001	<0.00055	0.001	0.001	<0.001
1,1-Dichloroethene	0.007	0.007	0.007	<0.001	<0.00057	<0.001	<0.001	<0.001	<0.001	<0.00057	0.0012	<0.00057	<0.001
cis-1,2-Dichloroethene	0.070	0.070	0.070	<0.001	0.002	<0.001	0.001	0.0017	<0.001	0.006	0.0424	0.12	0.0319
trans-1,2-Dichloroethene	0.10	0.10	0.10	<0.001	<0.00059	<0.001	0.003	0.0015	<0.001	<0.00059	0.0056	<0.00059	<0.001
Methylene Chloride	0.005	0.005	0.005	<0.001	<0.00055	<0.001	<0.001	<0.001	<0.001	<0.00055	<0.001	<0.00055	<0.001
1,2-Dichloropropane	0.005	0.005	0.005	<0.001	<0.00062	<0.001	<0.001	<0.001	<0.001	<0.00062	<0.001	<0.00062	<0.001
cis-1,3-Dichloropropene	0.0073	0.001	NE	<0.001	<0.00056	<0.001	<0.001	<0.001	<0.001	<0.00056	<0.001	<0.00056	<0.001
trans-1,3-Dichloropropene	0.0073	0.001	NE	<0.001	<0.00049	<0.001	<0.001	<0.001	<0.001	<0.00049	<0.001	<0.00049	<0.001
Ethylbenzene	0.70	0.70	0.70	<0.001	<0.00058	<0.001	<0.001	<0.001	<0.001	<0.00058	0.0398	<0.00058	<0.001
2-Hexanone	0.027	0.15	NE	<0.010	<0.0013	<0.005	<0.010	<0.005	<0.010	<0.0013	<0.005	<0.0013	<0.005
Isopropylbenzene	0.16	0.066	NE	<0.001	<0.00052	<0.001	<0.001	<0.001	<0.001	<0.00052	0.0017	0.0005 J	<0.001
4-Methyl-2-pentanone	0.13	0.050	NE	<0.010	<0.0015	<0.005	<0.010	<0.005	0.053	<0.0015	0.0115	<0.0015	<0.005
Methyl-tert-butyl-ether	0.020	0.020	NE	<0.001	<0.00048	0.0021	<0.001	0.0005 J	0.011	<0.00048	<0.001	<0.00048	<0.001
Styrene	0.10	0.10	0.10	<0.001	<0.0011	<0.001	<0.001	<0.001	<0.001	<0.0011	<0.001	<0.0011	<0.001
Tetrachloroethene	0.005	0.005	0.005	<0.001	0.004	0.0015	<0.001	0.001	<0.001	0.003	0.050	0.003	0.0083
1,1,2,2-Tetrachloroethane	0.0037	0.001	NE	<0.001	0.004	0.0018	0.003	0.0021	<0.001	0.002	0.0023	0.002	0.0034
Toluene	1.0	1.0	1.0	<0.001	<0.00064	<0.001	<0.001	<0.001	0.007	<0.00064	1.96	<0.00064	<0.001
1,1,1-Trichloroethane	0.20	0.20	0.20	<0.001	<0.00057	<0.001	<0.001	<0.001	<0.001	<0.00057	0.003	0.001	0.0011
1,1,2-Trichloroethane	0.005	0.005	0.005	<0.001	<0.00059	<0.001	<0.001	0.0014	<0.001	0.001	0.0005 J	0.002	0.0019
Trichloroethene	0.005	0.005	0.005	0.003	0.030	0.0089	0.002	0.0028	<0.001	0.003	0.0248	0.018	0.0637
Vinyl Chloride	0.002	0.002	0.002	<0.002	<0.00055	<0.001	0.003	0.00072	<0.002	<0.00055	0.0193	<0.00055	<0.001
Xylenes	10	10	10	<0.002	<0.0023	<0.003	<0.002	<0.003	0.001	<0.0023	0.0794	<0.0023	<0.003

Notes:

- Analytical detection target is equivalent to MDE Groundwater Standards as published in "MDE Clean-Up Standards for Soil and Groundwater, Interim Final Guidance, December 2000."
- MDE Groundwater Standards as published in "MDE Clean-Up Standards, Update No. 1, August 2001."
- EPA National Primary Drinking Water Standards. www.epa.gov/safewater
- Concentrations exceeding MDE Non Residential Clean-Up Standard marked in bold with bold outline. Shaded cells exceed the EPA National Primary Drinking Water Standards.
- NE = Not Established
- NA = Not Analyzed
- * Analytical results after 6 month pilot study test

7. Data Qualifiers:

- J - The analyte was positively identified; the associated numerical value is the approx. concentration of the analyte in the sample.
- UJ - Not detected; quantitation limit may be inaccurate or imprecise
- < - analyte not detected at or above the indicated concentration.

QA/QC by:	BSG 02-06-06
	GBC 02-08-06

TABLE 4
SUMMARY OF VOC RESULTS IN GROUNDWATER
2005 OFF-SITE INVESTIGATION
GE RAILCAR, ELKTON, MARYLAND

Volatile Organic Compounds milligrams/liter	Analytical Detection Target ¹	MDE Groundwater Standard ²	EPA National Water Standards ³	MW-14	MW-14	MW-15	MW-15	MW-16	MW-16	MW-17	MW-17	MW-17	MW-18
				11/07/01 @ 1059	10/31/05 @ 1055	11/06/01 @ 1606	10/30/05 @ 1645	11/06/01 @ 1704	10/30/05 @ 1506	11/07/01 @ 1316	03/25/04 @ 1812	10/28/05 @ 1415	11/09/01 @ 0830
Acetone	0.16	0.061	NE	<0.010	0.0271	<0.010	0.203	0.004	<0.025	<0.050	0.032	0.746	<0.010
Benzene	0.005	0.005	0.005	<0.001	<0.001	<0.001	<0.001	0.008	0.004 J	0.15	0.098	0.174	<0.001
Bromodichloromethane	0.10	0.080	NE	<0.001	<0.001	<0.001	<0.001	<0.001	<0.005	<0.005	<0.00055	<0.005	<0.001
Bromoform	0.10	0.080	NE	<0.001	<0.001	<0.001	<0.001	<0.001	<0.005	<0.005	<0.00053	<0.005	<0.001
Bromomethane	0.0022	0.001	NE	<0.002	<0.001	<0.002	<0.001	<0.002	<0.005	<0.010	<0.0023	<0.005	<0.002
2-Butanone	0.94	0.19	NE	<0.010	<0.005	<0.010	<0.005	<0.010	<0.025	<0.050	0.019	<0.025	<0.010
Carbon Disulfide	0.083	0.10	NE	<0.002	<0.001	<0.002	<0.001	<0.002	<0.005	<0.010	<0.00061	<0.005	<0.002
Carbon Tetrachloride	0.005	0.005	0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.005	<0.005	<0.00066	<0.005	<0.001
Chlorobenzene	0.10	0.011	0.10	<0.001	<0.001	0.004	0.001	1.10	0.556	0.57	0.72	0.897	0.017
Chloroethane	0.016	0.0036	NE	<0.002	<0.001	<0.002	<0.001	<0.002	<0.005	<0.010	<0.00082	<0.005	<0.002
Chloroform	0.10	0.080	NE	<0.001	<0.001	<0.001	<0.001	<0.001	<0.005	<0.005	<0.00052	<0.005	<0.001
Chloromethane	0.011	0.0021	NE	<0.002	<0.001	<0.002	<0.001	<0.002	<0.005	<0.010	<0.00075	<0.005	<0.002
Dibromochloromethane	0.10	0.080	NE	<0.001	<0.001	<0.001	<0.001	<0.001	<0.005	<0.005	<0.00051	<0.005	<0.001
Dibromochloropropane	0.0002	0.001	0.0002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.005	<0.005	<0.0006	<0.005	<0.001
1,2-Dibromoethane	0.00005	0.001	NE	<0.001	<0.001	<0.001	<0.001	<0.001	<0.005	<0.005	<0.00052	<0.005	<0.001
1,1-Dichloroethane	0.16	0.080	NE	<0.001	<0.001	<0.001	<0.001	0.004	<0.005	<0.005	0.002	0.0027 J	<0.001
1,2-Dichloroethane	0.005	0.005	0.005	<0.001	<0.001	<0.001	<0.001	0.001	<0.005	<0.005	0.002	0.0031 J	<0.001
1,1-Dichloroethene	0.007	0.007	0.007	<0.001	<0.001	<0.001	<0.001	<0.001	<0.005	<0.005	<0.00057	<0.005	<0.001
cis-1,2-Dichloroethene	0.070	0.070	0.070	<0.001	<0.001	<0.001	<0.001	0.003	<0.005	<0.005	0.003	0.0051	<0.001
trans-1,2-Dichloroethene	0.10	0.10	0.10	<0.001	<0.001	<0.001	<0.001	0.003	<0.005	<0.005	0.001	<0.005	<0.001
Methylene Chloride	0.005	0.005	0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.005	<0.005	<0.00055	<0.005	<0.001
1,2-Dichloropropane	0.005	0.005	0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.005	<0.005	<0.00062	<0.005	<0.001
cis-1,3-Dichloropropene	0.0073	0.001	NE	<0.001	<0.001	<0.001	<0.001	<0.001	<0.005	<0.005	<0.00056	<0.005	<0.001
trans-1,3-Dichloropropene	0.0073	0.001	NE	<0.001	<0.001	<0.001	<0.001	<0.001	<0.005	<0.005	<0.00049	<0.005	<0.001
Ethylbenzene	0.70	0.70	0.70	<0.001	<0.001	<0.001	<0.001	0.001	<0.005	0.048	<0.00058	0.0111	<0.001
2-Hexanone	0.027	0.15	NE	<0.010	<0.005	<0.010	<0.005	<0.010	<0.025	<0.050	<0.0013	<0.025	<0.010
Isopropylbenzene	0.16	0.066	NE	<0.001	<0.001	<0.001	<0.001	<0.001	<0.005	<0.005	0.001	<0.005	<0.001
4-Methyl-2-pentanone	0.13	0.050	NE	<0.010	<0.005	<0.010	<0.005	<0.010	<0.025	<0.050	<0.0015	<0.025	<0.010
Methyl-tert-butyl-ether	0.020	0.020	NE	<0.001	0.0005 J	<0.001	<0.001	<0.001	<0.005	<0.005	<0.00048	<0.005	<0.001
Styrene	0.10	0.10	0.10	<0.001	<0.001	<0.001	<0.001	<0.001	<0.005	<0.005	<0.0011	<0.005	<0.001
Tetrachloroethene	0.005	0.005	0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.005	<0.005	<0.00067	<0.005	<0.001
1,1,2,2-Tetrachloroethane	0.0037	0.001	NE	<0.001	<0.001	<0.001	<0.001	0.013	<0.005	<0.005	<0.00044	<0.005	<0.001
Toluene	1.0	1.0	1.0	<0.001	<0.001	<0.001	<0.001	<0.001	<0.005	<0.005	<0.00064	<0.005	<0.001
1,1,1-Trichloroethane	0.20	0.20	0.20	<0.001	<0.001	<0.001	<0.001	<0.001	<0.005	<0.005	<0.00057	<0.005	<0.001
1,1,2-Trichloroethane	0.005	0.005	0.005	<0.001	<0.001	0.001	0.0009 J	0.006	<0.005	<0.005	0.002	0.0034 J	<0.001
Trichloroethene	0.005	0.005	0.005	<0.001	<0.001	<0.001	0.0006 J	0.002	<0.005	<0.005	<0.00065	<0.005	<0.001
Vinyl Chloride	0.002	0.002	0.002	<0.002	<0.001	<0.002	<0.001	0.003	<0.005	<0.010	0.006	0.0068	<0.002
Xylenes	10	10	10	<0.002	<0.003	<0.002	<0.003	0.002	<0.015	0.237	0.033	0.0171 J	<0.002

Notes:

- Analytical detection target is equivalent to MDE Groundwater Standards as published in "MDE Clean-Up Standards for Soil and Groundwater, Interim Final Guidance, December 2000."
- MDE Groundwater Standards as published in "MDE Clean-Up Standards, Update No. 1, August 2001."
- EPA National Primary Drinking Water Standards. www.epa.gov/safewater
- Concentrations exceeding MDE Non Residential Clean-Up Standard marked in bold with bold outline. Shaded cells exceed the EPA National Primary Drinking Water Standards.
- NE = Not Established
- NA = Not Analyzed
- * Analytical results after 6 month pilot study test

7. Data Qualifiers:

- J - The analyte was positively identified; the associated numerical value is the approx. concentration of the analyte in the sample.
- UJ - Not detected; quantitation limit may be inaccurate or imprecise
- < - analyte not detected at or above the indicated concentration.

QA/QC by:	BSG 02-06-06
	GBC 02-08-06

**TABLE 4
SUMMARY OF VOC RESULTS IN GROUNDWATER
2005 OFF-SITE INVESTIGATION
GE RAILCAR, ELKTON, MARYLAND**

Volatile Organic Compounds milligrams/liter	Analytical Detection Target ¹	MDE Groundwater Standard ²	EPA National Water Standards ³	MW-18	MW-19	MW-19	MW-20	MW-20	MW-21	MW-21	MW-22	MW-22	MW-22
				11/01/05 @ 0955	11/07/01 @ 1429	10/30/05 @ 1239	11/30/01 @ 0942	10/29/05 @ 1800	11/12/01 @ 1650	10/30/05 @ 1052	11/13/01 @ 1022	03/25/2004 @ 1426	10/29/05 @ 0830
Acetone	0.16	0.061	NE	<0.005	<0.010	0.0048 J	<0.010	0.338	<0.010	0.070	<0.010	<0.0038	0.0182
Benzene	0.005	0.005	0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.00063	<0.001
Bromodichloromethane	0.10	0.080	NE	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.00055	<0.001
Bromoform	0.10	0.080	NE	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.00053	<0.001
Bromomethane	0.0022	0.001	NE	<0.001	<0.002	<0.001	<0.002	<0.001	<0.002	<0.001	<0.002	<0.0023	<0.001
2-Butanone	0.94	0.19	NE	<0.005	<0.010	<0.005	<0.010	<0.005	<0.010	<0.005	<0.010	<0.0025	<0.005
Carbon Disulfide	0.083	0.10	NE	<0.001	<0.002	<0.001	<0.002	<0.001	<0.002	<0.001	<0.002	<0.00061	<0.001
Carbon Tetrachloride	0.005	0.005	0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.00066	<0.001
Chlorobenzene	0.10	0.011	0.10	0.0024	<0.001	<0.001	0.006	0.0023	0.006	0.0016	0.004	<0.00062	<0.001
Chloroethane	0.016	0.0036	NE	<0.001	<0.002	<0.001	<0.002	<0.001	<0.002	<0.001	<0.002	<0.00082	<0.001
Chloroform	0.10	0.080	NE	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.00052	<0.001
Chloromethane	0.011	0.0021	NE	<0.001	<0.002	<0.001	<0.002	<0.001	<0.002	<0.001	<0.002	<0.00075	<0.001
Dibromochloromethane	0.10	0.080	NE	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.00051	<0.001
Dibromochloropropane	0.0002	0.001	0.0002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.0006	<0.001
1,2-Dibromoethane	0.00005	0.001	NE	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.00052	<0.001
1,1-Dichloroethane	0.16	0.080	NE	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.00065	<0.001
1,2-Dichloroethane	0.005	0.005	0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.00055	<0.001
1,1-Dichloroethene	0.007	0.007	0.007	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.00057	<0.001
cis-1,2-Dichloroethene	0.070	0.070	0.070	0.0009 J	<0.001	<0.001	0.002	0.0013	<0.001	0.0007 J	0.001	<0.00055	0.0005 J
trans-1,2-Dichloroethene	0.10	0.10	0.10	0.0006 J	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.00059	<0.001
Methylene Chloride	0.005	0.005	0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.00055	<0.001
1,2-Dichloropropane	0.005	0.005	0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.00062	<0.001
cis-1,3-Dichloropropene	0.0073	0.001	NE	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.00056	<0.001
trans-1,3-Dichloropropene	0.0073	0.001	NE	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.00049	<0.001
Ethylbenzene	0.70	0.70	0.70	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.00058	<0.001
2-Hexanone	0.027	0.15	NE	<0.005	<0.010	<0.005	<0.010	<0.005	<0.010	<0.005	<0.010	<0.0013	<0.005
Isopropylbenzene	0.16	0.066	NE	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.00052	<0.001
4-Methyl-2-pentanone	0.13	0.050	NE	<0.005	<0.010	<0.005	<0.010	<0.005	<0.010	<0.005	<0.010	<0.0015	<0.005
Methyl-tert-butyl-ether	0.020	0.020	NE	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.00048	<0.001
Styrene	0.10	0.10	0.10	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.0011	<0.001
Tetrachloroethene	0.005	0.005	0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.00067	<0.001
1,1,2,2-Tetrachloroethane	0.0037	0.001	NE	0.0049	<0.001	<0.001	0.002	0.0022	0.007	0.0269	<0.001	0.001	0.0013
Toluene	1.0	1.0	1.0	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.00064	<0.001
1,1,1-Trichloroethane	0.20	0.20	0.20	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.00057	<0.001
1,1,2-Trichloroethane	0.005	0.005	0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.00059	<0.001
Trichloroethene	0.005	0.005	0.005	0.0008 J	<0.001	<0.001	<0.001	<0.001	0.001	0.0022	<0.001	<0.00065	<0.001
Vinyl Chloride	0.002	0.002	0.002	<0.001	<0.002	<0.001	<0.002	<0.001	<0.002	<0.001	<0.002	<0.00055	<0.001
Xylenes	10	10	10	<0.003	<0.002	<0.003	<0.002	<0.003	<0.002	<0.003	<0.002	<0.0023	<0.003

Notes:

- Analytical detection target is equivalent to MDE Groundwater Standards as published in "MDE Clean-Up Standards for Soil and Groundwater, Interim Final Guidance, December 2000."
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 - Concentrations exceeding MDE Non Residential Clean-Up Standard marked in bold with bold outline. Shaded cells exceed the EPA National Primary Drinking Water Standards.
 - NE = Not Established
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- * Analytical results after 6 month pilot study test

7. Data Qualifiers:

- J - The analyte was positively identified; the associated numerical value is the approx. concentration of the analyte in the sample.
- UJ - Not detected; quantitation limit may be inaccurate or imprecise
- < - analyte not detected at or above the indicated concentration.

QA/QC by:	BSG 02-06-06
	GBC 02-08-06

TABLE 4
SUMMARY OF VOC RESULTS IN GROUNDWATER
2005 OFF-SITE INVESTIGATION
GE RAILCAR, ELKTON, MARYLAND

Volatile Organic Compounds milligrams/liter	Analytical Detection Target ¹	MDE Groundwater Standard ²	EPA National Water Standards ³	MW-23	MW-23	MW-23	MW-24	MW-24	MW-25	MW-25	MW-26	MW-26	MW-27
				11/12/01 @ 1429	03/25/04 @ 1653	10/29/05 @ 1005	11/10/01 @ 1235	11/01/05 @ 1240	03/29/04 @ 1558	11/01/05 @ 1350	11/10/01 @ 0940	11/01/05 @ 1705	11/09/01 @ 0855
Acetone	0.16	0.061	NE	<0.010	<0.0038	0.0125	<0.010	0.010	0.074	0.0292	<0.010	0.0069	<0.010
Benzene	0.005	0.005	0.005	<0.001	<0.00063	<0.001	<0.001	<0.001	<0.00063	<0.001	<0.001	<0.001	<0.001
Bromodichloromethane	0.10	0.080	NE	<0.001	<0.00055	<0.001	<0.001	<0.001	<0.00055	<0.001	<0.001	<0.001	<0.001
Bromoform	0.10	0.080	NE	<0.001	<0.00053	<0.001	<0.001	<0.001	<0.00053	<0.001	<0.001	<0.001	<0.001
Bromomethane	0.0022	0.001	NE	<0.002	<0.0023	<0.001	<0.002	<0.001	<0.0023	<0.001	<0.002	<0.001	<0.002
2-Butanone	0.94	0.19	NE	<0.010	<0.0025	<0.005	<0.010	<0.005	<0.0025	<0.005	<0.010	<0.005	<0.010
Carbon Disulfide	0.083	0.10	NE	<0.002	<0.00061	<0.001	<0.002	<0.001	<0.00061	<0.001	<0.002	<0.001	<0.002
Carbon Tetrachloride	0.005	0.005	0.005	<0.001	<0.00066	<0.001	<0.001	<0.001	<0.00066	<0.001	<0.001	<0.001	<0.001
Chlorobenzene	0.10	0.011	0.10	0.019	0.019	0.0031	<0.001	<0.001	<0.00062	<0.001	<0.001	<0.001	<0.001
Chloroethane	0.016	0.0036	NE	<0.002	<0.00082	<0.001	<0.002	<0.001	<0.00082	<0.001	<0.002	<0.001	<0.002
Chloroform	0.10	0.080	NE	<0.001	<0.00052	0.0008 J	<0.001	<0.001	<0.00052	<0.001	<0.001	<0.001	<0.001
Chloromethane	0.011	0.0021	NE	<0.002	<0.00075	<0.001	<0.002	<0.001	<0.00075	<0.001	<0.002	<0.001	<0.002
Dibromochloromethane	0.10	0.080	NE	<0.001	<0.00051	<0.001	<0.001	<0.001	<0.00051	<0.001	<0.001	<0.001	<0.001
Dibromochloropropane	0.0002	0.001	0.0002	<0.001	<0.0006	<0.001	<0.001	<0.001	<0.0006	<0.001	<0.001	<0.001	<0.001
1,2-Dibromoethane	0.00005	0.001	NE	<0.001	<0.00052	<0.001	<0.001	<0.001	<0.00052	<0.001	<0.001	<0.001	<0.001
1,1-Dichloroethane	0.16	0.080	NE	<0.001	<0.00065	<0.001	<0.001	<0.001	<0.00065	<0.001	<0.001	<0.001	<0.001
1,2-Dichloroethane	0.005	0.005	0.005	<0.001	<0.00055	<0.001	<0.001	<0.001	<0.00055	<0.001	<0.001	<0.001	<0.001
1,1-Dichloroethene	0.007	0.007	0.007	<0.001	<0.00057	<0.001	<0.001	<0.001	<0.00057	<0.001	<0.001	<0.001	<0.001
cis-1,2-Dichloroethene	0.070	0.070	0.070	0.001	0.012	0.0204	<0.001	<0.001	<0.00055	<0.001	<0.001	<0.001	<0.001
trans-1,2-Dichloroethene	0.10	0.10	0.10	<0.001	0.002	<0.001	<0.001	<0.001	<0.00059	<0.001	<0.001	<0.001	<0.001
Methylene Chloride	0.005	0.005	0.005	<0.001	<0.00055	0.0007 J	<0.001	<0.001	<0.00055	<0.001	<0.001	<0.001	<0.001
1,2-Dichloropropane	0.005	0.005	0.005	<0.001	<0.00062	<0.001	<0.001	<0.001	<0.00062	<0.001	<0.001	<0.001	<0.001
cis-1,3-Dichloropropene	0.0073	0.001	NE	<0.001	<0.00056	<0.001	<0.001	<0.001	<0.00056	<0.001	<0.001	<0.001	<0.001
trans-1,3-Dichloropropene	0.0073	0.001	NE	<0.001	<0.00049	0.0031	<0.001	<0.001	<0.00049	<0.001	<0.001	<0.001	<0.001
Ethylbenzene	0.70	0.70	0.70	<0.001	<0.00058	<0.001	<0.001	<0.001	<0.00058	<0.001	<0.001	<0.001	<0.001
2-Hexanone	0.027	0.15	NE	<0.010	<0.0013	<0.005	<0.010	<0.005	<0.0013	<0.005	<0.010	<0.005	<0.010
Isopropylbenzene	0.16	0.066	NE	<0.001	<0.00052	<0.001	<0.001	<0.001	<0.00052	<0.001	<0.001	<0.001	<0.001
4-Methyl-2-pentanone	0.13	0.050	NE	<0.010	<0.0015	<0.005	<0.010	<0.005	<0.0015	<0.005	<0.010	<0.005	<0.010
Methyl-tert-butyl-ether	0.020	0.020	NE	<0.001	<0.00048	<0.001	<0.001	<0.001	<0.00048	<0.001	<0.001	0.0009 J	<0.001
Styrene	0.10	0.10	0.10	<0.001	<0.0011	<0.001	<0.001	<0.001	<0.0011	<0.001	<0.001	<0.001	<0.001
Tetrachloroethene	0.005	0.005	0.005	0.017	<0.00067	<0.001	<0.001	<0.001	<0.00067	<0.001	<0.001	<0.001	<0.001
1,1,2,2-Tetrachloroethane	0.0037	0.001	NE	<0.001	0.040	0.0469	<0.001	<0.001	<0.00044	<0.001	<0.001	<0.001	<0.001
Toluene	1.0	1.0	1.0	<0.001	<0.00064	<0.001	<0.001	<0.001	<0.00064	<0.001	<0.001	<0.001	<0.001
1,1,1-Trichloroethane	0.20	0.20	0.20	<0.001	<0.00057	<0.001	<0.001	<0.001	<0.00057	<0.001	<0.001	<0.001	<0.001
1,1,2-Trichloroethane	0.005	0.005	0.005	<0.001	0.001	0.0017	<0.001	<0.001	<0.00059	<0.001	<0.001	<0.001	<0.001
Trichloroethene	0.005	0.005	0.005	0.003	0.008	0.0109	<0.001	<0.001	<0.00065	<0.001	<0.001	<0.001	<0.001
Vinyl Chloride	0.002	0.002	0.002	<0.002	<0.00055	<0.001	<0.002	<0.001	<0.00055	<0.001	<0.002	<0.001	<0.002
Xylenes	10	10	10	<0.002	<0.0023	<0.003	<0.002	<0.003	<0.0012	<0.003	<0.002	<0.003	<0.002

Notes:

- Analytical detection target is equivalent to MDE Groundwater Standards as published in "MDE Clean-Up Standards for Soil and Groundwater, Interim Final Guidance, December 2000."
 - MDE Groundwater Standards as published in "MDE Clean-Up Standards, Update No. 1, August 2001."
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 - NE = Not Established
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7. Data Qualifiers:

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Volatile Organic Compounds milligrams/liter	Analytical Detection Target ¹	MDE Groundwater Standard ²	EPA National Water Standards ³	MW-27	MW-28	MW-28	MW-29	MW-29	MW-30	MW-30	MW-31	MW-31	MW-32
				11/01/05 @ 0945	11/13/01 @ 1301	11/01/05 @ 1553	11/30/01 @ 1050	10/31/05 @ 1640	11/09/01 @ 1150	11/01/05 @ 1135	11/12/01 @ 1150	10/31/05 @ 1342	11/09/01 @ 1450
Acetone	0.16	0.061	NE	0.0235	<0.010	<0.005	<0.010	0.0042 J	<0.010	<0.005	<0.010	<0.005	<0.010
Benzene	0.005	0.005	0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Bromodichloromethane	0.10	0.080	NE	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Bromoform	0.10	0.080	NE	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Bromomethane	0.0022	0.001	NE	<0.001	<0.002	<0.001	<0.002	<0.001	<0.002	<0.001	<0.002	<0.001	<0.002
2-Butanone	0.94	0.19	NE	<0.005	<0.010	<0.005	<0.010	<0.005	<0.010	<0.005	<0.010	<0.005	<0.010
Carbon Disulfide	0.083	0.10	NE	<0.001	<0.002	<0.001	<0.002	<0.001	<0.002	<0.001	<0.002	<0.001	<0.002
Carbon Tetrachloride	0.005	0.005	0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Chlorobenzene	0.10	0.011	0.10	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Chloroethane	0.016	0.0036	NE	<0.001	<0.002	<0.001	<0.002	<0.001	<0.002	<0.001	<0.002	<0.001	<0.002
Chloroform	0.10	0.080	NE	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Chloromethane	0.011	0.0021	NE	<0.001	<0.002	<0.001	<0.002	<0.001	<0.002	<0.001	<0.002	<0.001	<0.002
Dibromochloromethane	0.10	0.080	NE	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Dibromochloropropane	0.0002	0.001	0.0002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1,2-Dibromoethane	0.00005	0.001	NE	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1,1-Dichloroethane	0.16	0.080	NE	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1,2-Dichloroethane	0.005	0.005	0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1,1-Dichloroethene	0.007	0.007	0.007	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
cis-1,2-Dichloroethene	0.070	0.070	0.070	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.004	0.0008 J	0.001
trans-1,2-Dichloroethene	0.10	0.10	0.10	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Methylene Chloride	0.005	0.005	0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.002
1,2-Dichloropropane	0.005	0.005	0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
cis-1,3-Dichloropropene	0.0073	0.001	NE	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
trans-1,3-Dichloropropene	0.0073	0.001	NE	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Ethylbenzene	0.70	0.70	0.70	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
2-Hexanone	0.027	0.15	NE	<0.005	<0.010	<0.005	<0.010	<0.005	<0.010	<0.005	<0.010	<0.005	<0.010
Isopropylbenzene	0.16	0.066	NE	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
4-Methyl-2-pentanone	0.13	0.050	NE	<0.005	<0.010	<0.005	<0.010	<0.005	<0.010	<0.005	<0.010	<0.005	<0.010
Methyl-tert-butyl-ether	0.020	0.020	NE	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Styrene	0.10	0.10	0.10	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Tetrachloroethene	0.005	0.005	0.005	<0.001	0.035	0.0034	<0.001	<0.001	0.008	0.0046	0.005	0.0082	<0.001
1,1,2,2-Tetrachloroethane	0.0037	0.001	NE	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.013
Toluene	1.0	1.0	1.0	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1,1,1-Trichloroethane	0.20	0.20	0.20	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1,1,2-Trichloroethane	0.005	0.005	0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Trichloroethene	0.005	0.005	0.005	<0.001	<0.001	<0.001	<0.001	<0.001	0.001	<0.001	0.004	0.0006 J	<0.001
Vinyl Chloride	0.002	0.002	0.002	<0.001	<0.002	<0.001	<0.002	<0.001	<0.002	<0.001	<0.002	<0.001	<0.002
Xylenes	10	10	10	<0.003	<0.002	<0.003	<0.002	<0.003	<0.002	<0.003	<0.002	<0.003	<0.002

Notes:

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				10/31/05 @ 1600	11/09/01 @ 1715	10/30/05 @ 0847	11/10/01 @ 1221	10/30/05 @ 1253	11/09/01 @ 1640	10/30/05 @ 1008	11/10/01 @ 0923	10/30/05 @ 1140	11/10/01 @ 1501
Acetone	0.16	0.061	NE	0.0111	<0.010	0.0971	<0.010	0.0284	<0.010	0.0026 J	<0.010	0.0488	<0.010
Benzene	0.005	0.005	0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Bromodichloromethane	0.10	0.080	NE	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Bromoform	0.10	0.080	NE	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Bromomethane	0.0022	0.001	NE	<0.001	<0.002	<0.001	<0.002	<0.001	<0.002	<0.001	<0.002	<0.001	<0.002
2-Butanone	0.94	0.19	NE	<0.005	<0.010	<0.005	<0.010	<0.005	<0.010	<0.005	<0.010	<0.005	<0.010
Carbon Disulfide	0.083	0.10	NE	<0.001	<0.002	<0.001	<0.002	<0.001	<0.002	<0.001	<0.002	<0.001	<0.002
Carbon Tetrachloride	0.005	0.005	0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Chlorobenzene	0.10	0.011	0.10	0.0007 J	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.002	<0.001	0.002
Chloroethane	0.016	0.0036	NE	<0.001	<0.002	<0.001	<0.002	<0.001	<0.002	<0.001	<0.002	<0.001	<0.002
Chloroform	0.10	0.080	NE	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Chloromethane	0.011	0.0021	NE	<0.001	<0.002	<0.001	<0.002	<0.001	<0.002	<0.001	<0.002	<0.001	<0.002
Dibromochloromethane	0.10	0.080	NE	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Dibromochloropropane	0.0002	0.001	0.0002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1,2-Dibromoethane	0.00005	0.001	NE	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1,1-Dichloroethane	0.16	0.080	NE	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1,2-Dichloroethane	0.005	0.005	0.005	<0.001	<0.001	<0.001	<0.001	<0.001	0.001	<0.001	<0.001	<0.001	<0.001
1,1-Dichloroethene	0.007	0.007	0.007	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
cis-1,2-Dichloroethene	0.070	0.070	0.070	0.0477	<0.001	<0.001	<0.001	<0.001	0.001	0.0006 J	0.003	<0.001	0.001
trans-1,2-Dichloroethene	0.10	0.10	0.10	0.0297	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Methylene Chloride	0.005	0.005	0.005	<0.001	<0.001	<0.001	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1,2-Dichloropropane	0.005	0.005	0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
cis-1,3-Dichloropropene	0.0073	0.001	NE	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
trans-1,3-Dichloropropene	0.0073	0.001	NE	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Ethylbenzene	0.70	0.70	0.70	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
2-Hexanone	0.027	0.15	NE	<0.005	<0.010	<0.005	<0.010	<0.005	<0.010	<0.005	<0.010	<0.005	<0.010
Isopropylbenzene	0.16	0.066	NE	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
4-Methyl-2-pentanone	0.13	0.050	NE	<0.005	<0.010	<0.005	<0.010	<0.005	<0.010	<0.005	<0.010	<0.005	<0.010
Methyl-tert-butyl-ether	0.020	0.020	NE	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Styrene	0.10	0.10	0.10	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Tetrachloroethene	0.005	0.005	0.005	0.0031	<0.001	<0.001	0.0007	0.0047	<0.001	<0.001	<0.001	<0.001	0.002
1,1,2,2-Tetrachloroethane	0.0037	0.001	NE	0.203	0.013	0.0056	0.005	<0.001	0.041	0.0164	0.033	0.0126	0.17
Toluene	1.0	1.0	1.0	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1,1,1-Trichloroethane	0.20	0.20	0.20	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.002
1,1,2-Trichloroethane	0.005	0.005	0.005	0.0006 J	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.001	<0.001	<0.001
Trichloroethene	0.005	0.005	0.005	0.0599	0.004	0.0017	0.003	0.0007 J	0.004	0.0015	0.001	0.0013	0.016
Vinyl Chloride	0.002	0.002	0.002	<0.001	<0.002	<0.001	<0.002	<0.001	<0.002	<0.001	<0.002	<0.001	<0.002
Xylenes	10	10	10	<0.003	<0.002	<0.003	<0.002	<0.003	<0.002	<0.003	<0.002	<0.003	<0.002

Notes:

- Analytical detection target is equivalent to MDE Groundwater Standards as published in "MDE Clean-Up Standards for Soil and Groundwater, Interim Final Guidance, December 2000."
- MDE Groundwater Standards as published in "MDE Clean-Up Standards, Update No. 1, August 2001."
- EPA National Primary Drinking Water Standards. www.epa.gov/safewater
- Concentrations exceeding MDE Non Residential Clean-Up Standard marked in bold with bold outline. Shaded cells exceed the EPA National Primary Drinking Water Standards.
- NE = Not Established
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- * Analytical results after 6 month pilot study test

7. Data Qualifiers:

- J - The analyte was positively identified; the associated numerical value is the approx. concentration of the analyte in the sample.
- UJ - Not detected; quantitation limit may be inaccurate or imprecise
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QA/QC by:	BSG 02-06-06
	GBC 02-08-06

TABLE 4
SUMMARY OF VOC RESULTS IN GROUNDWATER
2005 OFF-SITE INVESTIGATION
GE RAILCAR, ELKTON, MARYLAND

Volatile Organic Compounds milligrams/liter	Analytical Detection Target ¹	MDE Groundwater Standard ²	EPA National Water Standards ³	MW-37	MW-38	MW-38	MW-39	MW-39	MW-39	MW-40	MW-40	MW-40	MW-41
				10/30/05 @ 1453	11/12/01 @ 0913	10/29/05 @ 1755	11/10/01 @ 0903	03/25/04 @ 1040	11/01/05 @ 1110	11/11/01 @ 1137	03/29/04 @ 1735	10/29/05 @ 1700	11/11/01 @ 1426
Acetone	0.16	0.061	NE	0.116	<0.010	0.318	<0.010	<0.0038	<0.005	<0.010	0.011	0.0775	<0.010
Benzene	0.005	0.005	0.005	<0.001	<0.001	<0.001	<0.001	<0.00063	<0.001	<0.001	<0.00063	<0.001	<0.001
Bromodichloromethane	0.10	0.080	NE	<0.001	<0.001	<0.001	<0.001	<0.00055	<0.001	<0.001	<0.00055	<0.001	<0.001
Bromoform	0.10	0.080	NE	<0.001	<0.001	<0.001	<0.001	<0.00053	<0.001	<0.001	<0.00053	<0.001	<0.001
Bromomethane	0.0022	0.001	NE	<0.001	<0.002	<0.001	<0.002	<0.0023	<0.001	<0.002	<0.0023	<0.001	<0.002
2-Butanone	0.94	0.19	NE	<0.005	<0.010	<0.005	<0.010	<0.0025	<0.005	<0.010	<0.0025	<0.005	<0.010
Carbon Disulfide	0.083	0.10	NE	<0.001	<0.002	<0.001	<0.002	<0.00061	<0.001	<0.002	<0.00061	<0.001	<0.002
Carbon Tetrachloride	0.005	0.005	0.005	<0.001	<0.001	<0.001	<0.001	<0.00066	<0.001	<0.001	<0.00066	<0.001	<0.001
Chlorobenzene	0.10	0.011	0.10	<0.001	<0.001	<0.001	<0.001	<0.00062	<0.001	<0.001	<0.00062	<0.001	<0.001
Chloroethane	0.016	0.0036	NE	<0.001	<0.002	0.0007 J	<0.002	<0.00082	<0.001	<0.002	<0.00082	<0.001	<0.002
Chloroform	0.10	0.080	NE	<0.001	<0.001	<0.001	<0.001	<0.00052	<0.001	<0.001	<0.00052	<0.001	0.001
Chloromethane	0.011	0.0021	NE	<0.001	<0.002	<0.001	<0.002	<0.00075	<0.001	<0.002	<0.00075	<0.001	<0.002
Dibromochloromethane	0.10	0.080	NE	<0.001	<0.001	<0.001	<0.001	<0.00051	<0.001	<0.001	<0.00051	<0.001	<0.001
Dibromochloropropane	0.0002	0.001	0.0002	<0.001	<0.001	<0.001	<0.001	<0.0006	<0.001	<0.001	<0.0006	<0.001	<0.001
1,2-Dibromoethane	0.00005	0.001	NE	<0.001	<0.001	<0.001	<0.001	<0.00052	<0.001	<0.001	<0.00052	<0.001	<0.001
1,1-Dichloroethane	0.16	0.080	NE	<0.001	<0.001	<0.001	<0.001	<0.00065	<0.001	<0.001	<0.00065	<0.001	<0.001
1,2-Dichloroethane	0.005	0.005	0.005	<0.001	<0.001	<0.001	<0.001	<0.00055	<0.001	<0.001	<0.00055	<0.001	0.002
1,1-Dichloroethene	0.007	0.007	0.007	0.0006 J	<0.001	<0.001	<0.001	<0.00057	<0.001	0.002	<0.00057	<0.001	<0.001
cis-1,2-Dichloroethene	0.070	0.070	0.070	0.0028	<0.001	0.0005 J	<0.001	<0.00055	<0.001	0.007	0.003	0.0014	<0.001
trans-1,2-Dichloroethene	0.10	0.10	0.10	0.0015	<0.001	<0.001	<0.001	<0.00059	<0.001	0.002	0.0009 J	<0.001	<0.001
Methylene Chloride	0.005	0.005	0.005	<0.001	<0.001	<0.001	<0.001	<0.00055	<0.001	<0.001	<0.00055	<0.001	<0.001
1,2-Dichloropropane	0.005	0.005	0.005	<0.001	<0.001	<0.001	<0.001	<0.00062	<0.001	<0.001	<0.00062	<0.001	<0.001
cis-1,3-Dichloropropene	0.0073	0.001	NE	<0.001	<0.001	<0.001	<0.001	<0.00056	<0.001	<0.001	<0.00056	<0.001	<0.001
trans-1,3-Dichloropropene	0.0073	0.001	NE	<0.001	<0.001	<0.001	<0.001	<0.00049	<0.001	<0.001	<0.00049	<0.001	<0.001
Ethylbenzene	0.70	0.70	0.70	<0.001	<0.001	<0.001	<0.001	<0.00058	<0.001	<0.001	<0.00058	<0.001	<0.001
2-Hexanone	0.027	0.15	NE	<0.005	<0.010	<0.005	<0.010	<0.0013	<0.005	<0.010	<0.0013	<0.005	<0.010
Isopropylbenzene	0.16	0.066	NE	<0.001	<0.001	<0.001	<0.001	<0.00052	<0.001	<0.001	<0.00052	<0.001	<0.001
4-Methyl-2-pentanone	0.13	0.050	NE	<0.005	<0.010	<0.005	<0.010	<0.0015	<0.005	<0.010	<0.0015	<0.005	<0.010
Methyl-tert-butyl-ether	0.020	0.020	NE	0.0013	<0.001	<0.001	<0.001	0.0007 J	<0.001	<0.001	<0.00048	<0.001	<0.001
Styrene	0.10	0.10	0.10	<0.001	<0.001	<0.001	<0.001	<0.0011	<0.001	<0.001	<0.0011	<0.001	<0.001
Tetrachloroethene	0.005	0.005	0.005	0.0086	<0.001	<0.001	0.002	0.003	0.0042	0.014	0.017	0.011	<0.001
1,1,2,2-Tetrachloroethane	0.0037	0.001	NE	0.293	0.008	0.0067	0.006	<0.00044	<0.001	0.42	0.17	0.058	0.020
Toluene	1.0	1.0	1.0	<0.001	<0.001	<0.001	<0.001	<0.00064	<0.001	<0.001	<0.00064	<0.001	<0.001
1,1,1-Trichloroethane	0.20	0.20	0.20	0.0045	<0.001	<0.001	0.001	<0.00057	<0.001	0.012	0.006	0.0168	<0.001
1,1,2-Trichloroethane	0.005	0.005	0.005	0.0005 J	<0.001	<0.001	<0.001	<0.00059	<0.001	0.001	<0.00059	0.0021	<0.001
Trichloroethene	0.005	0.005	0.005	0.0528	<0.001	0.0007 J	0.004	0.001	<0.001	0.090	0.054	<0.001	0.002
Vinyl Chloride	0.002	0.002	0.002	<0.001	<0.002	<0.001	<0.002	<0.00055	<0.001	<0.002	<0.00055	<0.001	<0.002
Xylenes	10	10	10	<0.003	<0.002	<0.003	<0.002	<0.0023	<0.003	<0.002	<0.0023	<0.003	<0.002

Notes:

- Analytical detection target is equivalent to MDE Groundwater Standards as published in "MDE Clean-Up Standards for Soil and Groundwater, Interim Final Guidance, December 2000."
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- NE = Not Established
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- * Analytical results after 6 month pilot study test

7. Data Qualifiers:

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- UJ - Not detected; quantitation limit may be inaccurate or imprecise
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	GBC 02-08-06

TABLE 4
SUMMARY OF VOC RESULTS IN GROUNDWATER
2005 OFF-SITE INVESTIGATION
GE RAILCAR, ELKTON, MARYLAND

Volatile Organic Compounds milligrams/liter	Analytical Detection Target ¹	MDE Groundwater Standard ²	EPA National Water Standards ³	MW-41	MW-41	MW-42	MW-42*	MW-42	MW-43*	MW-43	MW-44*	MW-44	MW-45	S-1
				03/24/04 @ 1358	10/29/05 @ 1530	11/11/01 @ 1642	11/21/03	10/29/05 @ 1330	11/21/03	10/29/05 @ 1105	11/21/03	10/29/05 @ 1245	03/28/04 @ 1015	11/05/01 @ 1503
Acetone	0.16	0.061	NE	<0.0038	0.594	0.005	0.012	0.0068	0.0052	0.0884	0.0041	0.0084	0.069	0.005
Benzene	0.005	0.005	0.005	<0.00063	<0.001	<0.001	0.0009	0.0006 J	0.014	0.0212	<0.00063	<0.001	0.016	<0.001
Bromodichloromethane	0.10	0.080	NE	<0.00055	<0.001	<0.001	<0.00055	<0.001	<0.00055	<0.001	<0.00055	<0.001	<0.00055	<0.001
Bromoform	0.10	0.080	NE	<0.00053	<0.001	<0.001	<0.00053	<0.001	<0.00053	<0.001	<0.00053	<0.001	<0.00053	<0.001
Bromomethane	0.0022	0.001	NE	<0.0023	<0.001	<0.002	<0.0023	<0.001	<0.0023	<0.001	<0.0023	<0.001	<0.0023	<0.002
2-Butanone	0.94	0.19	NE	<0.0025	<0.005	<0.010	<0.0025	<0.005	<0.0025	<0.005	<0.0025	<0.005	<0.0025	<0.010
Carbon Disulfide	0.083	0.10	NE	<0.00061	<0.001	<0.002	<0.00061	<0.001	<0.00061	<0.001	<0.00061	<0.001	<0.00061	<0.002
Carbon Tetrachloride	0.005	0.005	0.005	<0.00066	<0.001	<0.001	<0.00066	<0.001	<0.00066	<0.001	<0.00066	<0.001	<0.00066	<0.001
Chlorobenzene	0.10	0.011	0.10	<0.00062	0.0006 J	0.011	0.013	0.0028	0.0671	0.287	0.001	0.0008 J	0.13	<0.001
Chloroethane	0.016	0.0036	NE	<0.00082	<0.001	<0.002	<0.00082	0.0005 J	<0.00082	<0.001	<0.00082	<0.001	<0.00082	<0.002
Chloroform	0.10	0.080	NE	<0.00052	<0.001	0.001	0.0011	0.0009 J	<0.00052	<0.001	0.001	0.0008 J	<0.00052	<0.001
Chloromethane	0.011	0.0021	NE	<0.00075	<0.001	<0.002	<0.00075	<0.001	<0.00075	<0.001	<0.00075	<0.001	<0.00075	<0.002
Dibromochloromethane	0.10	0.080	NE	<0.00051	<0.001	<0.001	<0.00051	<0.001	<0.00051	<0.001	<0.00051	<0.001	<0.00051	<0.001
Dibromochloropropane	0.0002	0.001	0.0002	<0.0006	<0.001	<0.001	<0.0006	<0.001	<0.0006	<0.001	<0.0006	<0.001	<0.0006	<0.001
1,2-Dibromoethane	0.00005	0.001	NE	<0.00052	<0.001	<0.001	<0.00052	<0.001	<0.00052	<0.001	<0.00052	<0.001	<0.00052	<0.001
1,1-Dichloroethane	0.16	0.080	NE	<0.00065	<0.001	0.004	0.0015	0.007	0.0009	0.0007 J	<0.00065	0.0027	<0.00065	<0.001
1,2-Dichloroethane	0.005	0.005	0.005	<0.00055	<0.001	0.004	0.0019	0.0072	<0.00055	<0.001	0.0009	0.0032	<0.00055	<0.001
1,1-Dichloroethene	0.007	0.007	0.007	<0.00057	<0.001	<0.001	0.0036	0.0027	<0.00057	<0.001	<0.00057	0.0012	<0.00057	<0.001
cis-1,2-Dichloroethene	0.070	0.070	0.070	<0.00055	<0.001	0.64	0.282	1.05	0.0008	0.0008 J	0.0022	0.644	<0.00055	<0.001
trans-1,2-Dichloroethene	0.10	0.10	0.10	<0.00059	<0.001	0.37	0.124	0.691	<0.00059	0.001	0.0007	0.408	<0.00059	<0.001
Methylene Chloride	0.005	0.005	0.005	<0.00055	<0.001	0.001	<0.00055	0.0021	<0.00055	<0.001	<0.00055	0.0009 J	<0.00055	<0.001
1,2-Dichloropropane	0.005	0.005	0.005	<0.00062	<0.001	<0.001	<0.00062	<0.001	<0.00062	<0.001	<0.00062	<0.001	<0.00062	<0.001
cis-1,3-Dichloropropene	0.0073	0.001	NE	<0.00056	<0.001	<0.001	<0.00056	<0.001	<0.00056	<0.001	<0.00056	<0.001	<0.00056	<0.001
trans-1,3-Dichloropropene	0.0073	0.001	NE	<0.00049	<0.001	<0.001	<0.00049	<0.001	<0.00049	<0.001	<0.00049	<0.001	<0.00049	<0.001
Ethylbenzene	0.70	0.70	0.70	<0.00058	<0.001	<0.001	<0.00058	<0.001	<0.00058	0.0011	<0.00058	<0.001	<0.00058	<0.001
2-Hexanone	0.027	0.15	NE	<0.0013	<0.005	<0.010	<0.0013	<0.005	<0.0013	<0.005	<0.0013	<0.005	<0.0013	<0.010
Isopropylbenzene	0.16	0.066	NE	<0.00052	<0.001	<0.001	<0.00052	<0.001	<0.00052	<0.001	<0.00052	<0.001	<0.00052	<0.001
4-Methyl-2-pentanone	0.13	0.050	NE	<0.0015	<0.005	0.022	<0.0015	<0.005	<0.0015	<0.005	<0.0015	<0.005	<0.0015	<0.010
Methyl-tert-butyl-ether	0.020	0.020	NE	<0.00048	<0.001	<0.001	<0.00048	<0.001	<0.00048	<0.001	<0.00048	<0.001	<0.00048	<0.001
Styrene	0.10	0.10	0.10	<0.0011	<0.001	<0.001	<0.0011	<0.001	<0.0011	<0.001	<0.0011	<0.001	<0.0011	<0.001
Tetrachloroethene	0.005	0.005	0.005	0.001	0.0006 J	0.002	0.001	0.0064	<0.00067	<0.001	<0.00067	0.0028	<0.00067	<0.001
1,1,2,2-Tetrachloroethane	0.0037	0.001	NE	0.004	0.008	0.71	0.0005	0.876	<0.00044	<0.001	0.016	0.556	<0.00044	<0.001
Toluene	1.0	1.0	1.0	<0.00064	<0.001	0.016	0.0006	<0.001	<0.00064	<0.001	<0.00064	<0.001	<0.00064	<0.001
1,1,1-Trichloroethane	0.20	0.20	0.20	<0.00057	<0.001	<0.001	<0.00057	<0.001	<0.00057	<0.001	<0.00057	<0.001	<0.00057	<0.001
1,1,2-Trichloroethane	0.005	0.005	0.005	<0.00059	<0.001	0.023	0.0061	0.0555	<0.00059	<0.001	0.0007	0.0229	<0.00059	<0.001
Trichloroethene	0.005	0.005	0.005	<0.00065	0.0006 J	0.13	0.246	0.148	0.0007	<0.001	0.0053	0.157	<0.00065	<0.001
Vinyl Chloride	0.002	0.002	0.002	<0.00055	<0.001	0.034	0.0056	0.0836	<0.00055	<0.001	<0.00055	0.030	<0.00055	<0.002
Xylenes	10	10	10	<0.0023	<0.003	0.006	0.0013	<0.003	<0.0023	<0.003	<0.0023	<0.003	<0.0023	<0.002

Notes:

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2005 OFF-SITE INVESTIGATION
GE RAILCAR, ELKTON, MARYLAND

Volatile Organic Compounds milligrams/liter	Analytical Detection Target ¹	MDE Groundwater Standard ²	EPA National Water Standards ³	S-1	S-2	S-2	S-3	S-3	S-4	S-4	S-5	S-5	S-6
				11/02/05 @ 1055	11/05/01 @ 1604	11/02/05 @ 1708	11/06/01 @ 1000	11/02/05 @ 1312	11/06/01 @ 1028	11/02/05 @ 1047	11/06/01 @ 1340	10/31/05 @ 1335	11/06/01 @ 1459
Acetone	0.16	0.061	NE	0.148	<0.010	0.0333	<0.010	0.0808	0.005	0.533	<0.010	0.0459	0.005
Benzene	0.005	0.005	0.005	<0.001	0.001	<0.001	<0.001	<0.001	0.008	0.0234	<0.001	0.0072	<0.001
Bromodichloromethane	0.10	0.080	NE	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Bromoform	0.10	0.080	NE	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Bromomethane	0.0022	0.001	NE	<0.001	<0.002	<0.001	<0.002	<0.001	<0.002	<0.001	<0.002	<0.001	<0.002
2-Butanone	0.94	0.19	NE	<0.005	<0.010	<0.005	<0.010	<0.005	0.006	<0.005	<0.010	<0.005	<0.010
Carbon Disulfide	0.083	0.10	NE	<0.001	<0.002	<0.001	<0.002	<0.001	<0.002	<0.001	<0.002	<0.001	<0.002
Carbon Tetrachloride	0.005	0.005	0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Chlorobenzene	0.10	0.011	0.10	<0.001	<0.001	<0.001	0.002	<0.001	0.097	0.434	0.028	0.302	<0.001
Chloroethane	0.016	0.0036	NE	<0.001	<0.002	<0.001	<0.002	<0.001	<0.002	0.0009 J	<0.002	<0.001	<0.002
Chloroform	0.10	0.080	NE	<0.001	<0.001	<0.001	<0.001	<0.001	0.002	<0.001	<0.001	0.0017	<0.001
Chloromethane	0.011	0.0021	NE	<0.001	<0.002	<0.001	<0.002	<0.001	<0.002	<0.001	<0.002	<0.001	<0.002
Dibromochloromethane	0.10	0.080	NE	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Dibromochloropropane	0.0002	0.001	0.0002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1,2-Dibromoethane	0.00005	0.001	NE	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1,1-Dichloroethane	0.16	0.080	NE	<0.001	<0.001	<0.001	<0.001	<0.001	0.001	0.0028	0.001	0.0043	<0.001
1,2-Dichloroethane	0.005	0.005	0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.0011	<0.001	0.0015	<0.001
1,1-Dichloroethene	0.007	0.007	0.007	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
cis-1,2-Dichloroethene	0.070	0.070	0.070	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.0008 J	<0.001	<0.001	<0.001
trans-1,2-Dichloroethene	0.10	0.10	0.10	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.0008 J	<0.001	0.0006 J	<0.001
Methylene Chloride	0.005	0.005	0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.0006 J	<0.001
1,2-Dichloropropane	0.005	0.005	0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
cis-1,3-Dichloropropene	0.0073	0.001	NE	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
trans-1,3-Dichloropropene	0.0073	0.001	NE	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Ethylbenzene	0.70	0.70	0.70	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.0028	<0.001
2-Hexanone	0.027	0.15	NE	<0.005	<0.010	<0.005	<0.010	<0.005	<0.010	<0.005	<0.010	<0.005	<0.010
Isopropylbenzene	0.16	0.066	NE	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
4-Methyl-2-pentanone	0.13	0.050	NE	<0.005	<0.010	<0.005	<0.010	<0.005	<0.010	<0.005	<0.010	<0.005	<0.010
Methyl-tert-butyl-ether	0.020	0.020	NE	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Styrene	0.10	0.10	0.10	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Tetrachloroethene	0.005	0.005	0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.0006 J	<0.001
1,1,2,2-Tetrachloroethane	0.0037	0.001	NE	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.0016	<0.001
Toluene	1.0	1.0	1.0	<0.001	<0.001	<0.001	0.002	<0.001	<0.001	<0.001	<0.001	0.0006 J	<0.001
1,1,1-Trichloroethane	0.20	0.20	0.20	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1,1,2-Trichloroethane	0.005	0.005	0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.0019	<0.001
Trichloroethene	0.005	0.005	0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.0007 J	<0.001	0.0011	<0.001
Vinyl Chloride	0.002	0.002	0.002	<0.001	<0.002	<0.001	<0.002	<0.001	<0.002	0.0017	<0.002	0.0016	<0.002
Xylenes	10	10	10	<0.003	<0.002	<0.003	<0.002	<0.003	<0.002	<0.003	<0.002	0.0026	<0.002

Notes:

- Analytical detection target is equivalent to MDE Groundwater Standards as published in "MDE Clean-Up Standards for Soil and Groundwater, Interim Final Guidance, December 2000."
- MDE Groundwater Standards as published in "MDE Clean-Up Standards, Update No. 1, August 2001."
- EPA National Primary Drinking Water Standards. www.epa.gov/safewater
- Concentrations exceeding MDE Non Residential Clean-Up Standard marked in bold with bold outline. Shaded cells exceed the EPA National Primary Drinking Water Standards.
- NE = Not Established
- NA = Not Analyzed
- * Analytical results after 6 month pilot study test

7. Data Qualifiers:

- J - The analyte was positively identified; the associated numerical value is the approx. concentration of the analyte in the sample.
- UJ - Not detected; quantitation limit may be inaccurate or imprecise
- < - analyte not detected at or above the indicated concentration.

QA/QC by:	BSG 02-06-06
	GBC 02-08-06

TABLE 4
SUMMARY OF VOC RESULTS IN GROUNDWATER
2005 OFF-SITE INVESTIGATION
GE RAILCAR, ELKTON, MARYLAND

Volatile Organic Compounds milligrams/liter	Analytical Detection Target ¹	MDE Groundwater Standard ²	EPA National Water Standards ³	S-6	OSMW-2	OSMW-2	OSMW-3	OSMW-3	OSMW-4	OSMW-4	OSMW-5	OSMW-5	OSMW-6
				10/29/05 @ 0950	03/31/04 @ 1618	10/28/05 @ 1210	03/30/04 @ 1427	10/28/05 @ 1940	03/31/04 @ 1735	10/27/05 @ 1723	03/30/04 @ 1748	10/27/05 @ 1808	03/31/04 @ 1236
Acetone	0.16	0.061	NE	0.235	0.055 J	0.144	0.020 J	0.0578	<0.0038	<0.005	0.006	0.0038 J	0.044
Benzene	0.005	0.005	0.005	<0.001	0.040	0.040	0.008	0.0068	<0.00063	<0.001	<0.00063	<0.001	<0.00063
Bromodichloromethane	0.10	0.080	NE	<0.001	<0.00055	<0.005	<0.00055	<0.001	<0.00055	<0.001	<0.00055	<0.001	<0.00055
Bromoform	0.10	0.080	NE	<0.001	<0.00053	<0.005	<0.00053	<0.001	<0.00053	<0.001	<0.00053	<0.001	<0.00053
Bromomethane	0.0022	0.001	NE	<0.001	<0.0023	<0.005	<0.0023	<0.001	<0.0023	<0.001	<0.0023	<0.001	<0.0023
2-Butanone	0.94	0.19	NE	<0.005	<0.0025	<0.025	<0.0025	<0.005	<0.0025	<0.005	<0.0025	<0.005	<0.0025
Carbon Disulfide	0.083	0.10	NE	<0.001	<0.00061	<0.005	<0.00061	<0.001	<0.00061	<0.001	<0.00061	<0.001	<0.00061 UJ
Carbon Tetrachloride	0.005	0.005	0.005	<0.001	<0.00066	<0.005	<0.00066	<0.001	<0.00066	<0.001	<0.00066	<0.001	<0.00066
Chlorobenzene	0.10	0.011	0.10	<0.001	0.02	0.29	0.33	0.232	<0.00062	<0.001	0.0008 J	<0.001	<0.00062
Chloroethane	0.016	0.0036	NE	<0.001	<0.00082	<0.005	<0.00082	<0.001	<0.00082	<0.001	<0.00082	<0.001	<0.00082
Chloroform	0.10	0.080	NE	<0.001	<0.00052	<0.005	0.0006 J	<0.001	0.0006 J	<0.001	<0.00052	<0.001	0.001
Chloromethane	0.011	0.0021	NE	<0.001	<0.00075	<0.005	<0.00075	<0.001	<0.00075	<0.001	<0.00075	<0.001	<0.00075 UJ
Dibromochloromethane	0.10	0.080	NE	<0.001	<0.00051	<0.005	<0.00051	<0.001	<0.00051	<0.001	<0.00051	<0.001	<0.00051
Dibromochloropropane	0.0002	0.001	0.0002	<0.001	<0.0006	<0.005	<0.0006	<0.001	<0.0006	<0.001	<0.0006	<0.001	<0.0006
1,2-Dibromoethane	0.00005	0.001	NE	<0.001	<0.00052	<0.005	<0.00052	<0.001	<0.00052	<0.001	<0.00052	<0.001	<0.00052
1,1-Dichloroethane	0.16	0.080	NE	<0.001	0.001	<0.005	<0.00065	<0.001	<0.00065	<0.001	<0.00065	<0.001	<0.00065
1,2-Dichloroethane	0.005	0.005	0.005	<0.001	0.0006 J	<0.005	<0.00055	<0.001	<0.00055	<0.001	<0.00055	<0.001	<0.00055
1,1-Dichloroethene	0.007	0.007	0.007	<0.001	<0.00057	<0.005	<0.00057	<0.001	<0.00057	<0.001	<0.00057	<0.001	0.0008 J
cis-1,2-Dichloroethene	0.070	0.070	0.070	<0.001	<0.00055	<0.005	<0.00055	0.0007 J	0.005	0.0014	0.001	0.0028	0.0006 J
trans-1,2-Dichloroethene	0.10	0.10	0.10	<0.001	<0.00059	<0.005	<0.00059	0.0008 J	0.001	0.0006 J	0.0009 J	0.0026	<0.00059
Methylene Chloride	0.005	0.005	0.005	<0.001	<0.00055	<0.005	<0.00055	<0.001	<0.00055	<0.001	<0.00055	<0.001	<0.00055
1,2-Dichloropropane	0.005	0.005	0.005	<0.001	<0.00062	<0.005	<0.00062	<0.001	<0.00062	<0.001	<0.00062	<0.001	<0.00062
cis-1,3-Dichloropropene	0.0073	0.001	NE	<0.001	<0.00056	<0.005	<0.00056	<0.001	<0.00056	<0.001	<0.00056	<0.001	<0.00056
trans-1,3-Dichloropropene	0.0073	0.001	NE	<0.001	<0.00049	<0.005	<0.00049	<0.001	<0.00049	<0.001	<0.00049	<0.001	<0.00049
Ethylbenzene	0.70	0.70	0.70	<0.001	0.002	<0.005	<0.00058	<0.001	<0.00058	<0.001	<0.00058	<0.001	<0.00058
2-Hexanone	0.027	0.15	NE	<0.005	<0.0013	<0.025	<0.0013	<0.005	<0.0013	<0.005	<0.0013	<0.005	<0.0013
Isopropylbenzene	0.16	0.066	NE	<0.001	0.0006 J	<0.005	<0.00052	<0.001	<0.00052	<0.001	<0.00052	<0.001	<0.00052
4-Methyl-2-pentanone	0.13	0.050	NE	<0.005	<0.0015	<0.025	<0.0015	<0.005	<0.0015	<0.005	<0.0015	<0.005	<0.0015
Methyl-tert-butyl-ether	0.020	0.020	NE	<0.001	<0.00048	<0.005	<0.00048	<0.001	<0.00048	<0.001	<0.00048	<0.001	<0.00048
Styrene	0.10	0.10	0.10	<0.001	<0.0011	<0.005	<0.0011	<0.001	<0.0011	<0.001	<0.0011	<0.001	<0.0011
Tetrachloroethene	0.005	0.005	0.005	<0.001	<0.00067	<0.005	<0.00067	<0.001	0.001	0.0014	0.002	0.0015	0.002
1,1,2,2-Tetrachloroethane	0.0037	0.001	NE	<0.001	<0.00044	<0.005	0.0009 J	0.0007 J	0.028	0.0244	0.023	0.0408	0.028
Toluene	1.0	1.0	1.0	<0.001	<0.00064	<0.005	<0.00064	<0.001	<0.00064	<0.001	<0.00064	<0.001	<0.00064
1,1,1-Trichloroethane	0.20	0.20	0.20	<0.001	<0.00057	<0.005	<0.00057	<0.001	<0.00057	<0.001	<0.00057	<0.001	0.002
1,1,2-Trichloroethane	0.005	0.005	0.005	<0.001	<0.00059	<0.005	<0.00059	<0.001	<0.00059	<0.001	<0.00059	0.0019	<0.00059
Trichloroethene	0.005	0.005	0.005	<0.001	<0.00065	<0.005	<0.00065	<0.001	0.004	0.0029	0.003	0.0068	<0.00065
Vinyl Chloride	0.002	0.002	0.002	<0.001	<0.00055	<0.005	0.001	0.0009 J	<0.00055	<0.001	<0.00055	<0.001	<0.00055 UJ
Xylenes	10	10	10	<0.003	<0.0023	<0.015	<0.0023	<0.003	<0.0023	<0.003	<0.0023	<0.003	<0.0023

Notes:

- Analytical detection target is equivalent to MDE Groundwater Standards as published in "MDE Clean-Up Standards for Soil and Groundwater, Interim Final Guidance, December 2000."
 - MDE Groundwater Standards as published in "MDE Clean-Up Standards, Update No. 1, August 2001."
 - EPA National Primary Drinking Water Standards. www.epa.gov/safewater
 - Concentrations exceeding MDE Non Residential Clean-Up Standard marked in bold with bold outline. Shaded cells exceed the EPA National Primary Drinking Water Standards.
 - NE = Not Established
 - NA = Not Analyzed
- * Analytical results after 6 month pilot study test

7. Data Qualifiers:

- J - The analyte was positively identified; the associated numerical value is the approx. concentration of the analyte in the sample.
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2005 OFF-SITE INVESTIGATION
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Volatile Organic Compounds milligrams/liter	Analytical Detection Target ¹	MDE Groundwater Standard ²	EPA National Water Standards ³	OSMW-6	OSMW-11	OSMW-12	OSMW-13	OSMW-14	OSMW-15	Field Blank	Field Blank near MW-27	Trip Blank	Field Blank
				10/27/05 @ 1042	10/27/05 @ 1750	10/27/05 @ 1310	10/28/05 @ 1730	10/27/05 @ 1910	10/27/05 @ 0920	11/02/01 @ 1329	11/07/01 @ 1515	11/09/01	11/09/01 @ 1815
Acetone	0.16	0.061	NE	0.0031 J	0.0333	0.0213	<0.005	0.0072	0.0054	<0.010	<0.010	<0.010	<0.010
Benzene	0.005	0.005	0.005	<0.001	0.0069	0.0036	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Bromodichloromethane	0.10	0.080	NE	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Bromoform	0.10	0.080	NE	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Bromomethane	0.0022	0.001	NE	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.002	<0.002
2-Butanone	0.94	0.19	NE	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.010	<0.010	<0.010	<0.010
Carbon Disulfide	0.083	0.10	NE	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.002	<0.002
Carbon Tetrachloride	0.005	0.005	0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Chlorobenzene	0.10	0.011	0.10	<0.001	0.315	0.124	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Chloroethane	0.016	0.0036	NE	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.002	<0.002
Chloroform	0.10	0.080	NE	<0.001	<0.001	<0.001	<0.001	0.0009 J	<0.001	<0.001	<0.001	<0.001	<0.001
Chloromethane	0.011	0.0021	NE	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.002	<0.002
Dibromochloromethane	0.10	0.080	NE	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Dibromochloropropane	0.0002	0.001	0.0002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1,2-Dibromoethane	0.00005	0.001	NE	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1,1-Dichloroethane	0.16	0.080	NE	<0.001	0.0008 J	<0.001	0.0011	0.0006 J	<0.001	<0.001	<0.001	<0.001	<0.001
1,2-Dichloroethane	0.005	0.005	0.005	<0.001	<0.001	<0.001	<0.001	0.0009 J	<0.001	<0.001	<0.001	<0.001	<0.001
1,1-Dichloroethene	0.007	0.007	0.007	<0.001	<0.001	<0.001	0.0006 J	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
cis-1,2-Dichloroethene	0.070	0.070	0.070	<0.001	0.0027	0.0007 J	0.0052	0.0852	<0.001	<0.001	<0.001	<0.001	<0.001
trans-1,2-Dichloroethene	0.10	0.10	0.10	<0.001	<0.001	0.0007 J	0.0042	0.0345	<0.001	<0.001	<0.001	<0.001	<0.001
Methylene Chloride	0.005	0.005	0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.001
1,2-Dichloropropane	0.005	0.005	0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
cis-1,3-Dichloropropene	0.0073	0.001	NE	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
trans-1,3-Dichloropropene	0.0073	0.001	NE	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Ethylbenzene	0.70	0.70	0.70	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
2-Hexanone	0.027	0.15	NE	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.010	<0.010	<0.010	<0.010
Isopropylbenzene	0.16	0.066	NE	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
4-Methyl-2-pentanone	0.13	0.050	NE	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.010	<0.010	<0.010	<0.010
Methyl-tert-butyl-ether	0.020	0.020	NE	0.0013	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Styrene	0.10	0.10	0.10	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Tetrachloroethene	0.005	0.005	0.005	0.0016	0.0014	<0.001	0.010	0.001	0.0007 J	<0.001	<0.001	<0.001	<0.001
1,1,2,2-Tetrachloroethane	0.0037	0.001	NE	<0.001	0.0008 J	<0.001	0.173	0.218	<0.001	<0.001	<0.001	<0.001	<0.001
Toluene	1.0	1.0	1.0	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1,1,1-Trichloroethane	0.20	0.20	0.20	0.0007 J	0.0008 J	<0.001	0.0023	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1,1,2-Trichloroethane	0.005	0.005	0.005	<0.001	<0.001	<0.001	0.0021	0.004	<0.001	<0.001	<0.001	<0.001	<0.001
Trichloroethene	0.005	0.005	0.005	<0.001	0.0139	0.0307	0.0411	0.0299	<0.001	<0.001	<0.001	<0.001	<0.001
Vinyl Chloride	0.002	0.002	0.002	<0.001	<0.001	0.0009 J	<0.001	0.0018	<0.001	<0.002	<0.002	<0.002	<0.002
Xylenes	10	10	10	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.002	<0.002	<0.002	<0.002

Notes:

- Analytical detection target is equivalent to MDE Groundwater Standards as published in "MDE Clean-Up Standards for Soil and Groundwater, Interim Final Guidance, December 2000."
 - MDE Groundwater Standards as published in "MDE Clean-Up Standards, Update No. 1, August 2001."
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 - NE = Not Established
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7. Data Qualifiers:

- J - The analyte was positively identified; the associated numerical value is the approx. concentration of the analyte in the sample.
- UJ - Not detected; quantitation limit may be inaccurate or imprecise
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QA/QC by:	BSG 02-06-06
	GBC 02-08-06

TABLE 4
SUMMARY OF VOC RESULTS IN GROUNDWATER
2005 OFF-SITE INVESTIGATION
GE RAILCAR, ELKTON, MARYLAND

Volatile Organic Compounds milligrams/liter	Analytical Detection Target ¹	MDE Groundwater Standard ²	EPA National Water Standards ³	Field Blank near	Field Blank near	Field Blank near	Trip Blank	Field Blank near	Field Blank	Trip Blank	Field Blank	Field Blank near	MW-12 MS	MW-12 MSD
				MW-37	MW-42	MW-31	MW-28	Field Blank	Trip Blank	Field Blank	MW-16	03/28/04 @ 0834	03/28/04 @ 0834	
				11/10/01 @ 1610	11/11/01 @ 1531	11/12/01 @ 1600	11/12/01	11/13/01 @ 1346	11/30/01 @ 0955	11/30/01	11/05/01 @ 1635	11/06/01 @ 1635		
Acetone	0.16	0.061	NE	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	0.34	0.35
Benzene	0.005	0.005	0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.049	0.049
Bromodichloromethane	0.10	0.080	NE	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.046	0.045
Bromoform	0.10	0.080	NE	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.050	0.051
Bromomethane	0.0022	0.001	NE	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	0.048	0.055
2-Butanone	0.94	0.19	NE	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	0.28	0.28
Carbon Disulfide	0.083	0.10	NE	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	0.058	0.058
Carbon Tetrachloride	0.005	0.005	0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.050	0.050
Chlorobenzene	0.10	0.011	0.10	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.050	0.050
Chloroethane	0.016	0.0036	NE	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	0.058	0.058
Chloroform	0.10	0.080	NE	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.048	0.049
Chloromethane	0.011	0.0021	NE	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	0.056	0.060
Dibromochloromethane	0.10	0.080	NE	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.053	0.053
Dibromochloropropane	0.0002	0.001	0.0002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.054	0.054
1,2-Dibromoethane	0.00005	0.001	NE	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.050	0.050
1,1-Dichloroethane	0.16	0.080	NE	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.050	0.050
1,2-Dichloroethane	0.005	0.005	0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.048	0.047
1,1-Dichloroethene	0.007	0.007	0.007	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.054	0.054
cis-1,2-Dichloroethene	0.070	0.070	0.070	<0.001	<0.001	<0.001	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.055	0.055
trans-1,2-Dichloroethene	0.10	0.10	0.10	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.052	0.051
Methylene Chloride	0.005	0.005	0.005	<0.001	<0.001	<0.001	<0.001	0.002	<0.001	0.003	<0.001	<0.001	0.050	0.049
1,2-Dichloropropane	0.005	0.005	0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.049	0.049
cis-1,3-Dichloropropene	0.0073	0.001	NE	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.048	0.048
trans-1,3-Dichloropropene	0.0073	0.001	NE	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.052	0.052
Ethylbenzene	0.70	0.70	0.70	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.049	0.049
2-Hexanone	0.027	0.15	NE	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	0.15	0.15
Isopropylbenzene	0.16	0.066	NE	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.054	0.055
4-Methyl-2-pentanone	0.13	0.050	NE	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	0.15	0.15
Methyl-tert-butyl-ether	0.020	0.020	NE	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.056	0.055
Styrene	0.10	0.10	0.10	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.052	0.052
Tetrachloroethene	0.005	0.005	0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.053	0.052
1,1,2,2-Tetrachloroethane	0.0037	0.001	NE	<0.001	<0.001	<0.001	0.006	<0.001	<0.001	<0.001	<0.001	<0.001	0.054	0.053
Toluene	1.0	1.0	1.0	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.049	0.049
1,1,1-Trichloroethane	0.20	0.20	0.20	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.048	0.048
1,1,2-Trichloroethane	0.005	0.005	0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.050	0.050
Trichloroethene	0.005	0.005	0.005	<0.001	<0.001	<0.001	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.053	0.052
Vinyl Chloride	0.002	0.002	0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	0.059	0.057
Xylenes	10	10	10	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	0.149	0.148

Notes:

- Analytical detection target is equivalent to MDE Groundwater Standards as published in "MDE Clean-Up Standards for Soil and Groundwater, Interim Final Guidance, December 2000."
 - MDE Groundwater Standards as published in "MDE Clean-Up Standards, Update No. 1, August 2001."
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 - NE = Not Established
 - NA = Not Analyzed
- * Analytical results after 6 month pilot study test

7. Data Qualifiers:

- J - The analyte was positively identified; the associated numerical value is the approx. concentration of the analyte in the sample.
- UJ - Not detected; quantitation limit may be inaccurate or imprecise
- < - analyte not detected at or above the indicated concentration.

QA/QC by:	BSG 02-06-06
	GBC 02-08-06

TABLE 4
SUMMARY OF VOC RESULTS IN GROUNDWATER
2005 OFF-SITE INVESTIGATION
GE RAILCAR, ELKTON, MARYLAND

Volatile Organic Compounds milligrams/liter	Analytical Detection Target ¹	MDE Groundwater Standard ²	EPA National Water Standards ³	MW-7 MS	MW-7 MSD	MW-10 MS	MW-10 MSD	MW-32 MS	MW-32 MSD	MW-41 MS	MW-41 MSD	equipment blank	equipment blank 02
				11/02/05 @ 1310	11/02/05 @ 1310	11/02/05 @ 1830	11/02/05 @ 1830	10/31/05 @ 1600	10/31/05 @ 1600	10/29/05 @ 1530	10/29/05 @ 1530	03/24/04 @ 1459	03/25/04 @ 1507
Acetone	0.16	0.061	NE	0.292	0.302	0.301	0.276	0.301	0.288	1.29	1.04	<0.0038	0.015
Benzene	0.005	0.005	0.005	0.0593	0.0585	0.0558	0.0515	0.0597	0.0592	0.0553	0.053	<0.00063	<0.00063
Bromodichloromethane	0.10	0.080	NE	0.0526	0.0532	0.0512	0.0478	0.0534	0.0526	0.058	0.0562	<0.00055	<0.00055
Bromoform	0.10	0.080	NE	0.0539	0.0539	0.0499	0.0473	0.055	0.0546	0.0552	0.0527	<0.00053	<0.00053
Bromomethane	0.0022	0.001	NE	0.0777	0.0699	0.0643	0.0585	0.0776	0.0718	0.0552	0.0568	<0.0023	<0.0023
2-Butanone	0.94	0.19	NE	0.307	0.285	0.274	0.256	0.318	0.296	0.273	0.259	<0.0025	<0.0025
Carbon Disulfide	0.083	0.10	NE	0.0771	0.0762	0.0745	0.0691	0.0915	0.0782	0.0587	0.0561	<0.00061	<0.00061
Carbon Tetrachloride	0.005	0.005	0.005	0.0562	0.0568	0.0552	0.0515	0.0569	0.0577	0.0798	0.0782	<0.00066	<0.00066
Chlorobenzene	0.10	0.011	0.10	0.0546	0.0546	0.0534	0.0487	0.0548	0.0543	0.0522	0.0512	<0.00062	<0.00062
Chloroethane	0.016	0.0036	NE	0.0739	0.0707	0.0578	0.0539	0.0753	0.0737	0.0527	0.0514	<0.00082	<0.00082
Chloroform	0.10	0.080	NE	0.0556	0.0559	0.0541	0.05	0.0568	0.0566	0.0601	0.0591	<0.00052	<0.00052
Chloromethane	0.011	0.0021	NE	0.0621	0.0633	0.0609	0.0555	0.0645	0.0671	0.0545	0.0525	<0.00075	<0.00075
Dibromochloromethane	0.10	0.080	NE	0.0553	0.055	0.0518	0.048	0.0553	0.0548	0.0536	0.0522	<0.00051	<0.00051
Dibromochloropropane	0.0002	0.001	0.0002	0.0518	0.0527	0.0474	0.0479	0.0551	0.0556	0.0454	0.0459	<0.0006	<0.0006
1,2-Dibromoethane	0.00005	0.001	NE	0.0572	0.0551	0.0524	0.0482	0.0579	0.0559	0.0507	0.0492	<0.00052	<0.00052
1,1-Dichloroethane	0.16	0.080	NE	0.0586	0.0576	0.0557	0.0524	0.0594	0.0589	0.035	0.0421	<0.00065	<0.00065
1,2-Dichloroethane	0.005	0.005	0.005	0.0532	0.0534	0.0519	0.0483	0.0552	0.0537	0.0539	0.0524	<0.00055	<0.00055
1,1-Dichloroethene	0.007	0.007	0.007	0.0584	0.0543	0.0536	0.0496	0.0673	0.0551	0.052	0.0493	<0.00057	<0.00057
cis-1,2-Dichloroethene	0.070	0.070	0.070	0.0551	0.0546	0.0536	0.0497	0.0562	0.0559	0.0539	0.0527	<0.00055	<0.00055
trans-1,2-Dichloroethene	0.10	0.10	0.10	0.0551	0.0558	0.054	0.0503	0.0569	0.0571	0.0539	0.0531	<0.00059	<0.00059
Methylene Chloride	0.005	0.005	0.005	0.0545	0.0544	0.0519	0.0486	0.0556	0.0549	0.0531	0.0508	<0.00055	<0.00055
1,2-Dichloropropane	0.005	0.005	0.005	0.0544	0.0545	0.0532	0.0494	0.0544	0.0546	0.0526	0.0514	<0.00062	<0.00062
cis-1,3-Dichloropropene	0.0073	0.001	NE	0.0527	0.0535	0.0542	0.0505	0.0533	0.0531	0.0534	0.0527	<0.00056	<0.00056
trans-1,3-Dichloropropene	0.0073	0.001	NE	0.0572	0.0572	0.0568	0.0527	0.0576	0.0566	0.0573	0.056	<0.00049	<0.00049
Ethylbenzene	0.70	0.70	0.70	0.0558	0.0567	0.0567	0.0512	0.0566	0.056	0.0544	0.0539	<0.00058	<0.00058
2-Hexanone	0.027	0.15	NE	0.157	0.147	0.135	0.127	0.163	0.15	0.138	0.131	<0.0013	<0.0013
Isopropylbenzene	0.16	0.066	NE	0.0632	0.0632	0.0622	0.0564	0.063	0.0624	0.0595	0.0587	<0.00052	<0.00052
4-Methyl-2-pentanone	0.13	0.050	NE	0.159	0.15	0.138	0.131	0.163	0.154	0.138	0.13	<0.0015	<0.0015
Methyl-tert-butyl-ether	0.020	0.020	NE	0.0586	0.0516	0.0377	0.0399	0.0627	0.0593	0.0509	0.0501	<0.00048	<0.00048
Styrene	0.10	0.10	0.10	0.063	0.063	0.0615	0.0555	0.0634	0.0625	0.060	0.0584	<0.0011	<0.0011
Tetrachloroethene	0.005	0.005	0.005	0.0565	0.0569	0.0567	0.0523	0.0571	0.0563	0.0551	0.0546	<0.00067	<0.00067
1,1,2,2-Tetrachloroethane	0.0037	0.001	NE	0.0587	0.0565	0.0549	0.0502	0.0744	0.0701	0.0611	0.0579	<0.00044	<0.00044
Toluene	1.0	1.0	1.0	0.0584	0.0582	0.0548	0.0511	0.0578	0.0579	0.0553	0.0538	<0.00064	<0.00064
1,1,1-Trichloroethane	0.20	0.20	0.20	0.0557	0.0555	0.0548	0.0512	0.056	0.057	0.0595	0.0594	<0.00057	<0.00057
1,1,2-Trichloroethane	0.005	0.005	0.005	0.0549	0.054	0.0503	0.0464	0.0554	0.0544	0.0518	0.0494	<0.00059	<0.00059
Trichloroethene	0.005	0.005	0.005	0.0546	0.0541	0.0616	0.0582	0.0569	0.057	0.0538	0.0527	<0.00065	<0.00065
Vinyl Chloride	0.002	0.002	0.002	0.0676	0.0653	0.0604	0.0534	0.0711	0.0699	0.0565	0.0526	<0.00055	<0.00055
Xylenes	10	10	10	0.17	0.1733	0.1707	0.1553	0.1714	0.1705	0.1603	0.1586	<0.0023	<0.0023

Notes:

- Analytical detection target is equivalent to MDE Groundwater Standards as published in "MDE Clean-Up Standards for Soil and Groundwater, Interim Final Guidance, December 2000."
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2005 OFF-SITE INVESTIGATION
GE RAILCAR, ELKTON, MARYLAND

Volatile Organic Compounds milligrams/liter	Analytical Detection Target ¹	MDE Groundwater Standard ²	EPA National Water Standards ³	equipment blank 03	equipment blank 04	equipment blank 05	equipment blank 06	equipment blank	equipment blank	equipment blank	equipment blank	equipment blank
				03/28/04 @ 1436	03/29/04 @ 1816	03/30/04 @ 1514	03/31/04 @ 1327	10/27/05 @ 1900	10/28/05 @ 1745	10/29/05 @ 1905	10/30/05 @ 1035	10/31/05 @ 1450
Acetone	0.16	0.061	NE	<0.0038	<0.0038	<0.0038	0.022	<0.005	<0.005	0.0095	<0.005	0.0036 J
Benzene	0.005	0.005	0.005	<0.00063	<0.00063	<0.00063	<0.00063	<0.001	<0.001	<0.001	<0.001	<0.001
Bromodichloromethane	0.10	0.080	NE	<0.00055	<0.00055	<0.00055	<0.00055	<0.001	<0.001	<0.001	<0.001	<0.001
Bromoform	0.10	0.080	NE	<0.00053	<0.00053	<0.00053	<0.00053	<0.001	<0.001	<0.001	<0.001	<0.001
Bromomethane	0.0022	0.001	NE	<0.0023	<0.0023	<0.0023	<0.0023	<0.001	<0.001	<0.001	<0.001	<0.001
2-Butanone	0.94	0.19	NE	<0.0025	<0.0025	<0.0025	<0.0025	<0.005	<0.005	<0.005	<0.005	<0.005
Carbon Disulfide	0.083	0.10	NE	<0.00061	<0.00061	<0.00061	<0.00061	<0.001	<0.001	<0.001	<0.001	<0.001
Carbon Tetrachloride	0.005	0.005	0.005	<0.00066	<0.00066	<0.00066	<0.00066	<0.001	<0.001	<0.001	<0.001	<0.001
Chlorobenzene	0.10	0.011	0.10	<0.00062	<0.00062	<0.00062	<0.00062	<0.001	<0.001	<0.001	<0.001	<0.001
Chloroethane	0.016	0.0036	NE	<0.00082	<0.00082	<0.00082	<0.00082	<0.001	<0.001	<0.001	<0.001	<0.001
Chloroform	0.10	0.080	NE	<0.00052	<0.00052	<0.00052	<0.00052	<0.001	<0.001	<0.001	<0.001	<0.001
Chloromethane	0.011	0.0021	NE	<0.00075	<0.00075	<0.00075	<0.00075	<0.001	<0.001	<0.001	<0.001	<0.001
Dibromochloromethane	0.10	0.080	NE	<0.00051	<0.00051	<0.00051	<0.00051	<0.001	<0.001	<0.001	<0.001	<0.001
Dibromochloropropane	0.0002	0.001	0.0002	<0.0006	<0.0006	<0.0006	<0.0006	<0.001	<0.001	<0.001	<0.001	<0.001
1,2-Dibromoethane	0.00005	0.001	NE	<0.00052	<0.00052	<0.00052	<0.00052	<0.001	<0.001	<0.001	<0.001	<0.001
1,1-Dichloroethane	0.16	0.080	NE	<0.00065	<0.00065	<0.00065	<0.00065	<0.001	<0.001	<0.001	<0.001	<0.001
1,2-Dichloroethane	0.005	0.005	0.005	<0.00055	<0.00055	<0.00055	<0.00055	<0.001	<0.001	<0.001	<0.001	<0.001
1,1-Dichloroethene	0.007	0.007	0.007	<0.00057	<0.00057	<0.00057	<0.00057	<0.001	<0.001	<0.001	<0.001	<0.001
cis-1,2-Dichloroethene	0.070	0.070	0.070	<0.00055	<0.00055	<0.00055	<0.00055	<0.001	<0.001	<0.001	<0.001	<0.001
trans-1,2-Dichloroethene	0.10	0.10	0.10	<0.00059	<0.00059	<0.00059	<0.00059	<0.001	<0.001	<0.001	<0.001	<0.001
Methylene Chloride	0.005	0.005	0.005	<0.00055	<0.00055	<0.00055	<0.00055	<0.001	<0.001	<0.001	<0.001	<0.001
1,2-Dichloropropane	0.005	0.005	0.005	<0.00062	<0.00062	<0.00062	<0.00062	<0.001	<0.001	<0.001	<0.001	<0.001
cis-1,3-Dichloropropene	0.0073	0.001	NE	<0.00056	<0.00056	<0.00056	<0.00056	<0.001	<0.001	<0.001	<0.001	<0.001
trans-1,3-Dichloropropene	0.0073	0.001	NE	<0.00049	<0.00049	<0.00049	<0.00049	<0.001	<0.001	<0.001	<0.001	<0.001
Ethylbenzene	0.70	0.70	0.70	<0.00058	<0.00058	<0.00058	<0.00058	<0.001	<0.001	<0.001	<0.001	<0.001
2-Hexanone	0.027	0.15	NE	<0.0013	<0.0013	<0.0013	<0.0013	<0.005	<0.005	<0.005	<0.005	<0.005
Isopropylbenzene	0.16	0.066	NE	<0.00052	<0.00052	<0.00052	<0.00052	<0.001	<0.001	<0.001	<0.001	<0.001
4-Methyl-2-pentanone	0.13	0.050	NE	<0.0015	<0.0015	<0.0015	<0.0015	<0.005	<0.005	<0.005	<0.005	<0.005
Methyl-tert-butyl-ether	0.020	0.020	NE	<0.00048	<0.00048	<0.00048	<0.00048	<0.001	<0.001	<0.001	<0.001	<0.001
Styrene	0.10	0.10	0.10	<0.0011	<0.0011	<0.0011	<0.0011	<0.001	<0.001	<0.001	<0.001	<0.001
Tetrachloroethene	0.005	0.005	0.005	<0.00067	<0.00067	<0.00067	<0.00067	<0.001	<0.001	<0.001	<0.001	<0.001
1,1,2,2-Tetrachloroethane	0.0037	0.001	NE	<0.00044	<0.00044	<0.00044	<0.00044	<0.001	<0.001	<0.001	<0.001	<0.001
Toluene	1.0	1.0	1.0	<0.00064	<0.00064	<0.00064	<0.00064	<0.001	<0.001	<0.001	<0.001	<0.001
1,1,1-Trichloroethane	0.20	0.20	0.20	<0.00057	<0.00057	<0.00057	<0.00057	<0.001	<0.001	<0.001	<0.001	<0.001
1,1,2-Trichloroethane	0.005	0.005	0.005	<0.00059	<0.00059	<0.00059	<0.00059	<0.001	<0.001	<0.001	<0.001	<0.001
Trichloroethene	0.005	0.005	0.005	<0.00065	<0.00065	<0.00065	<0.00065	<0.001	<0.001	<0.001	<0.001	<0.001
Vinyl Chloride	0.002	0.002	0.002	<0.00055	<0.00055	<0.00055	<0.00055	<0.001	<0.001	<0.001	<0.001	<0.001
Xylenes	10	10	10	<0.0023	<0.0023	<0.0023	<0.0023	<0.003	<0.003	<0.003	<0.003	<0.003

Notes:

- Analytical detection target is equivalent to MDE Groundwater Standards as published in "MDE Clean-Up Standards for Soil and Groundwater, Interim Final Guidance, December 2000."
 - MDE Groundwater Standards as published in "MDE Clean-Up Standards, Update No. 1, August 2001."
 - EPA National Primary Drinking Water Standards. www.epa.gov/safewater
 - Concentrations exceeding MDE Non Residential Clean-Up Standard marked in bold with bold outline. Shaded cells exceed the EPA National Primary Drinking Water Standards.
 - NE = Not Established
 - NA = Not Analyzed
- * Analytical results after 6 month pilot study test

7. Data Qualifiers:

- J - The analyte was positively identified; the associated numerical value is the approx. concentration of the analyte in the sample.
- UJ - Not detected; quantitation limit may be inaccurate or imprecise
- < - analyte not detected at or above the indicated concentration.

QA/QC by:	BSG 02-06-06
	GBC 02-08-06

TABLE 4
SUMMARY OF VOC RESULTS IN GROUNDWATER
2005 OFF-SITE INVESTIGATION
GE RAILCAR, ELKTON, MARYLAND

Volatile Organic Compounds milligrams/liter	Analytical	MDE	EPA National	equipment blank	equipment blank	Trip Blank	Trip Blank	Trip Blank	Trip Blank	Trip Blank	Trip Blank	Trip Blank
	Detection Target ¹	Groundwater Standard ²	Water Standards ³	11/01/05 @ 1415	11/02/05	03/26/04	03/29/04	04/01/04	10/27/05	10/30/05	10/31/05	11/02/05
Acetone	0.16	0.061	NE	<0.005	<0.005	<0.0038	<0.0038	<0.0038	<0.005	<0.005	<0.005	<0.005
Benzene	0.005	0.005	0.005	<0.001	<0.001	<0.00063	<0.00063	<0.00063	<0.001	<0.001	<0.001	<0.001
Bromodichloromethane	0.10	0.080	NE	<0.001	<0.001	<0.00055	<0.00055	<0.00055	<0.001	<0.001	<0.001	<0.001
Bromoform	0.10	0.080	NE	<0.001	<0.001	<0.00053	<0.00053	<0.00053	<0.001	<0.001	<0.001	<0.001
Bromomethane	0.0022	0.001	NE	<0.001	<0.001	<0.0023	<0.0023	<0.0023	<0.001	<0.001	<0.001	<0.001
2-Butanone	0.94	0.19	NE	<0.005	<0.005	<0.0025	<0.0025	<0.0025	<0.005	<0.005	<0.005	<0.005
Carbon Disulfide	0.083	0.10	NE	<0.001	<0.001	<0.00061	<0.00061	<0.00061	<0.001	<0.001	<0.001	<0.001
Carbon Tetrachloride	0.005	0.005	0.005	<0.001	<0.001	<0.00066	<0.00066	<0.00066	<0.001	<0.001	<0.001	<0.001
Chlorobenzene	0.10	0.011	0.10	<0.001	<0.001	<0.00062	<0.00062	<0.00062	<0.001	<0.001	<0.001	<0.001
Chloroethane	0.016	0.0036	NE	<0.001	<0.001	<0.00082	<0.00082	<0.00082	<0.001	<0.001	<0.001	<0.001
Chloroform	0.10	0.080	NE	<0.001	<0.001	<0.00052	<0.00052	<0.00052	<0.001	<0.001	<0.001	<0.001
Chloromethane	0.011	0.0021	NE	<0.001	<0.001	<0.00075	<0.00075	<0.00075	<0.001	<0.001	<0.001	<0.001
Dibromochloromethane	0.10	0.080	NE	<0.001	<0.001	<0.00051	<0.00051	<0.00051	<0.001	<0.001	<0.001	<0.001
Dibromochloropropane	0.0002	0.001	0.0002	<0.001	<0.001	<0.0006	<0.0006	<0.0006	<0.001	<0.001	<0.001	<0.001
1,2-Dibromoethane	0.00005	0.001	NE	<0.001	<0.001	<0.00052	<0.00052	<0.00052	<0.001	<0.001	<0.001	<0.001
1,1-Dichloroethane	0.16	0.080	NE	<0.001	<0.001	<0.00065	<0.00065	<0.00065	<0.001	<0.001	<0.001	<0.001
1,2-Dichloroethane	0.005	0.005	0.005	<0.001	<0.001	<0.00055	<0.00055	<0.00055	<0.001	<0.001	<0.001	<0.001
1,1-Dichloroethene	0.007	0.007	0.007	<0.001	<0.001	<0.00057	<0.00057	<0.00057	<0.001	<0.001	<0.001	<0.001
cis-1,2-Dichloroethene	0.070	0.070	0.070	<0.001	<0.001	<0.00055	<0.00055	<0.00055	<0.001	<0.001	<0.001	<0.001
trans-1,2-Dichloroethene	0.10	0.10	0.10	<0.001	<0.001	<0.00059	<0.00059	<0.00059	<0.001	<0.001	<0.001	<0.001
Methylene Chloride	0.005	0.005	0.005	<0.001	<0.001	<0.00055	<0.00055	<0.00055	<0.001	<0.001	<0.001	<0.001
1,2-Dichloropropane	0.005	0.005	0.005	<0.001	<0.001	<0.00062	<0.00062	<0.00062	<0.001	<0.001	<0.001	<0.001
cis-1,3-Dichloropropene	0.0073	0.001	NE	<0.001	<0.001	<0.00056	<0.00056	<0.00056	<0.001	<0.001	<0.001	<0.001
trans-1,3-Dichloropropene	0.0073	0.001	NE	<0.001	<0.001	<0.00049	<0.00049	<0.00049	<0.001	<0.001	<0.001	<0.001
Ethylbenzene	0.70	0.70	0.70	<0.001	<0.001	<0.00058	<0.00058	<0.00058	<0.001	<0.001	<0.001	<0.001
2-Hexanone	0.027	0.15	NE	<0.005	<0.005	<0.0013	<0.0013	<0.0013	<0.005	<0.005	<0.005	<0.005
Isopropylbenzene	0.16	0.066	NE	<0.001	<0.001	<0.00052	<0.00052	<0.00052	<0.001	<0.001	<0.001	<0.001
4-Methyl-2-pentanone	0.13	0.050	NE	<0.005	<0.005	<0.0015	<0.0015	<0.0015	<0.005	<0.005	<0.005	<0.005
Methyl-tert-butyl-ether	0.020	0.020	NE	<0.001	<0.001	<0.00048	<0.00048	<0.00048	<0.001	<0.001	<0.001	<0.001
Styrene	0.10	0.10	0.10	<0.001	<0.001	<0.0011	<0.0011	<0.0011	<0.001	<0.001	<0.001	<0.001
Tetrachloroethene	0.005	0.005	0.005	<0.001	<0.001	<0.00067	<0.00067	<0.00067	<0.001	<0.001	<0.001	<0.001
1,1,2,2-Tetrachloroethane	0.0037	0.001	NE	<0.001	<0.001	<0.00044	<0.00044	<0.00044	<0.001	<0.001	<0.001	<0.001
Toluene	1.0	1.0	1.0	<0.001	<0.001	<0.00064	<0.00064	<0.00064	<0.001	<0.001	<0.001	<0.001
1,1,1-Trichloroethane	0.20	0.20	0.20	<0.001	<0.001	<0.00057	<0.00057	<0.00057	<0.001	<0.001	<0.001	<0.001
1,1,2-Trichloroethane	0.005	0.005	0.005	<0.001	<0.001	<0.00059	<0.00059	<0.00059	<0.001	<0.001	<0.001	<0.001
Trichloroethene	0.005	0.005	0.005	<0.001	<0.001	<0.00065	<0.00065	<0.00065	<0.001	<0.001	<0.001	<0.001
Vinyl Chloride	0.002	0.002	0.002	<0.001	<0.001	<0.00055	<0.00055	<0.00055	<0.001	<0.001	<0.001	<0.001
Xylenes	10	10	10	<0.003	<0.003	<0.0023	<0.0023	<0.0023	<0.003	<0.003	<0.003	<0.003

Notes:

- Analytical detection target is equivalent to MDE Groundwater Standards as published in "MDE Clean-Up Standards for Soil and Groundwater, Interim Final Guidance, December 2000."
 - MDE Groundwater Standards as published in "MDE Clean-Up Standards, Update No. 1, August 2001."
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 - NE = Not Established
 - NA = Not Analyzed
- * Analytical results after 6 month pilot study test

7. Data Qualifiers:

- J - The analyte was positively identified; the associated numerical value is the approx. concentration of the analyte in the sample.
- UJ - Not detected; quantitation limit may be inaccurate or imprecise
- < - analyte not detected at or above the indicated concentration.

QA/QC by:	BSG 02-06-06
	GBC 02-08-06

Rosengarten, Smith & Associates, Inc.

GE Railcar, Elkton, MD
RSA Project No. 2017-19

Off-Site Investigation Report
April 25, 2006

APPENDIX 1
BORING LOGS



Rosengarten, Smith & Associates, Inc.
 Technical Environmental Management
 AUSTIN, TEXAS (512) 707-1777

BORING NUMBER: MW-12R

LOCATION: 7' SE of S3

PROJECT INFORMATION

PROJECT: GE Railcar Elkton
 SITE LOCATION: Elkton, MD
 JOB NO.: 2017
 LOGGED BY: Charley Montero
 PAGE: 1 of 2

DRILLING INFORMATION

DATE DRILLED: 09/27/05
 DRILLING METHOD: Hollow Stem Auger
 DRILLED BY: Earth Matters Inc.
 EXISTING GRADE ELEVATION (FT. AMSL): 69.34
 SAMPLE COLLECTION METHOD: Split barrel

DEPTH	USCS	SOIL SYMBOLS	LITHOLOGIC DESCRIPTION	SOIL COLORS	PID (ppm)	SOIL SAMPLE		REMARKS OR FIELD OBSERVATIONS
						DEPTH	REC.	
0			0-10 refer to MW-12, S-3 boring logs					
10						10-12	NR 0.7	gravel in sampler burned odor in materials from shallow, silty loam
12-14			Sandy clay, stiff plastic, moist, light gray with yellow brown and red brown mottling			12-14	NR 0.5	
14-16	CH			N8	3.1	14-16	1.3	shallow material, silty loam clean out auger with center roller bit
16-18	GW		Gravels, granules to pebbles size with sand		2.4	16-18	0.2	possible gravel zone as seen in MW-12 and gravel in S-3 sampler, tip of shoe wet
18-20	CH		Very sandy clay, high plasticity, stiff, light gray, opaques, minor mottling, moist	N7	6.0	18-20	1.6	
20-22	CH		Very sandy clay, quartz granules, light gray with light yellow brown mottling, moist, plastic, sand pockets	N7	4.3	20-22	1.5	



Rosengarten, Smith & Associates, Inc.
 Technical Environmental Management
 AUSTIN, TEXAS (512) 707-1777

BORING NUMBER: MW-12R

LOCATION: 7' SE of S3

PROJECT INFORMATION

DRILLING INFORMATION

PROJECT: GE Railcar Elkton
 SITE LOCATION: Elkton, MD
 JOB NO.: 2017
 LOGGED BY: Charley Montero
 PAGE: 2 of 2

DATE DRILLED: 09/27/05
 DRILLING METHOD: Hollow Stem Auger
 DRILLED BY: Earth Matters Inc.
 EXISTING GRADE ELEVATION (FT. AMSL): 69.34
 SAMPLE COLLECTION METHOD: Split barrel

DEPTH	USCS	SOIL SYMBOLS	LITHOLOGIC DESCRIPTION	SOIL COLORS	PID (ppm)	SOIL SAMPLE		REMARKS OR FIELD OBSERVATIONS
						DEPTH	REC.	
	CH		Clay, medium light gray	N6	4.9	22-24	1.7	
	SC		Clayey sand, same plasticity with silt pockets, wet, light gray with yellow brown mottling		2.6	24-26	0.35	
25	SP		Sand, very fine grain, saturated, micaceous, gray, subangular, well sorted/poorly graded	10YR 5/1	7.5	26-28	0.9	
	CH		Slightly, sandy clay, very stiff, very moist, plastic, red brown with yellow brown mottling		4.6	28-30	0.4	gravel in shoe slight odor
	SW		Gravelly sand, fine grain - medium grain, very dark gray, saturated, quartz pebbles and granules	5yr 3/1				cuttings 0.7ppm cutting 0.9ppm
30	CH/SW		Clay, stiff, plastic, moist (with 1"-2" seams of wet fine grain red brown sand) very pale green/light green high grain and white predominant mottling	10G 8/2 5gy 8/1	3.5	30-32	1.4	
	CH		Saprolite, very stiff, slightly moist, mottled, yellowish green light green pale green mottled		6.2	32-34	1.9	cuttings 0.0ppm
35								Total depth sampled = 34' bgs Total depth auger = 33' bgs
40								



Rosengarten, Smith & Associates, Inc.
 Technical Environmental Management
 AUSTIN, TEXAS (512) 707-1777

BORING NUMBER: OSMW-11

LOCATION: approx. 350' SE of OSMW-3

PROJECT INFORMATION

DRILLING INFORMATION

PROJECT: GE Railcar Elkton
 SITE LOCATION: Elkton, MD
 JOB NO.: 2017
 LOGGED BY: Charley Montero
 PAGE: 1 of 2

DATE DRILLED: 09/20/05
 DRILLING METHOD: Hollow Stem Auger
 DRILLED BY: Earth Matters Inc.
 EXISTING GRADE ELEVATION (FT. AMSL): 54.86
 SAMPLE COLLECTION METHOD: Split barrel

DEPTH	USCS	SOIL SYMBOLS	LITHOLOGIC DESCRIPTION	SOIL COLORS	PID (ppm)	SOIL SAMPLE		REMARKS OR FIELD OBSERVATIONS	
						DEPTH	REC.		
0			Grass, weeds, sandy loam			0-2	1.5		
	CL		Silty clay/clayey silt, dry, yellow brown, lamination, rootlets, brittle, moisture increases with depth, yellow gray laminations/mottling	10yr 6/4	0.0	0.0	2-4	1.5	
					0.0	0.0	4-6	1.5	
5	CH		Silty clay with sandy clay, seams, stiff, laminated yellow brown mottling, minor pebbles sized quartz nodules, color grades to brownish yellow, slightly moist, no odor	10yr 6/8	0.0	0.0	6-8	1.5	
	CL		Sandy clay, brownish yellow with light gray mottling, scattered quartz pebbles, slightly moist/moist 7.5' gravel in tip of sample, no odor		0.0	0.0	8-10	1.2	
10	SP		Sand with clay, very fine grain, subrounded, light brown to reddish yellow, well sorted/poorly graded, very moist, seams with light gray sand	7.5yr 6/4	0.0	0.0			1st run, no recovery, try 2nd time (possible gravels, drill down to 12', no recovery 2nd time)
	SP		Sand, very loose/"powdery", very fine grain, white/very pale brown, subrounded, dry/slightly moist, well sorted/poorly graded, opaque		0.0	0.0	12-14	1.0	
	CH		Sandy clay, high plasticity, moist, brownish yellow	10yr 8/2 8/3	0.0	0.0	14-16	0.5	driller: gravel bed 14.5'-16' hear grinding
15	SW/GC		Gravel bed/gravelly sand, poorly sorted/well graded pebbles, granule size, subangular, saturated at 16.5' bgs, loose, pale brown with brown-yellow seams		0.0	0.0	16-18	0.75	auger stop "clattering" @ approx. 17' bgs
	SP		Sand, saturated, loose, alternating seams of pale brown and brownish yellow, well sorted/poorly graded seams of coarse sand, opaques	10yr 6/3	0.0	0.0	18-20	1.2	
20	SW		Sand, very fine grained, saturated subangular, alternating seams of color change, pale brown/brownish yellow/reddish		0.0	0.0	20-22	2	



Rosengarten, Smith & Associates, Inc.
 Technical Environmental Management
 AUSTIN, TEXAS (512) 707-1777

BORING NUMBER: OSMW-11
 LOCATION: approx. 350' SE of OSMW-3

PROJECT INFORMATION

DRILLING INFORMATION

PROJECT: GE Railcar Elkton
 SITE LOCATION: Elkton, MD
 JOB NO.: 2017
 LOGGED BY: Charley Montero
 PAGE: 2 of 2

DATE DRILLED: 09/20/05
 DRILLING METHOD: Hollow Stem Auger
 DRILLED BY: Earth Matters Inc.
 EXISTING GRADE ELEVATION (FT. AMSL): 54.86
 SAMPLE COLLECTION METHOD: Split barrel

DEPTH	USCS	SOIL SYMBOLS	LITHOLOGIC DESCRIPTION	SOIL COLORS	PID (ppm)	SOIL SAMPLE		REMARKS OR FIELD OBSERVATIONS
						DEPTH	REC.	
25	SW		yellow 21.5' - 1" seams of granule size gravel, alternating with sand		0.0	22-24	1.6	
	SP		Sand, brown/yellow, saturated, well sorted/poorly graded, very fine grain					
	SC/CL		Clayey sand/sandy clay, light gray, yellow brown mottling, clay increases with depth, loose/soft, saturated	10yr 7/1	0.3	24-26	1.8	
	SW		Sand, brown yellow with red yellow seams, saturated, very fine grain, subrounded well sorted calcareous granules, loose to medium dense, yellow seams at 31'-32', clayey sand at 29'-30'		1.0	26-28	1.4	* slight plastic odor bottom of sampler
				10yr 6/6				no odor
					1.3	28-30	2.0	slight odor
30					0.0	30-32	2.0	*sand rises into auger 3' use fresh H2O to offset flowing sands no odor
					0.2	32-34	2.0	
	CL/SW		Clayey sand/sandy clay, dense/tight, wet, gray with brown yellow mottling, very fine grain					no odor
	SW		Sand, loose, very fine grain saturated, yellow brown, subrounded, opaques		1.3	34-36	2.0	
35	CH/CL		Clay/sandy clay, light gray to white with gray brown mottling, stiff, plastic					no odor
	CH		Saprolite, very stiff, dry, green/white/dusky red mottled and laminated	N8/N9	0.0	36-38	1.5	
								no odor Total Depth 38' bgs

BORING NUMBER: OSMW-12
LOCATION: SE of OSMW-3, SW of OSMW-11
 Central N end of Schut property

PROJECT INFORMATION

PROJECT: GE Railcar Eikton
SITE LOCATION: Eikton, MD
JOB NO.: 2017
LOGGED BY: Charley Montero
PAGE: 1 of 2

DRILLING INFORMATION

DATE DRILLED: Default Listing
DRILLING METHOD: Hollow Stem Auger
DRILLED BY: Earth Matters Inc.
EXISTING GRADE ELEVATION (FT. AMSL): 48.95
SAMPLE COLLECTION METHOD: Split barrel

DEPTH	USCS	SOIL SYMBOLS	LITHOLOGIC DESCRIPTION	SOIL COLORS	PID (ppm)	SOIL SAMPLE		REMARKS OR FIELD OBSERVATIONS
						DEPTH	REC.	
0	CL		Grass, weeds, roots, road base, gravel, clayey loam, yellow brown		0	0-2	0.5	side slope of drainage
	CL		Silty clay, dry, stiff, mottled laminated, yellow to brown yellow rootlets	10yr 7/8	0	2-4	1.2	
	CL		Sandy clay, dry/slight moist, stiff laminated, light gray mottling, sand, parting rootlets, brown yellow	10yr 6/8	0	4-6	0.75	gravel in barrel shoe, augers chattering No Recovery quartz cobble in shoe drill down fist size cobbles in cuttings ~11.5/11.75' augers stopped chattering
5	CL		Silty clay, dry/slightly moist, rootlets, light gray mottling, brownish yellow, brittle		6	6-8	1.7	
	SW		Gravelly sand, fine grain sand, granule pebble size granules, loose/medium dense, slightly moist, reddish yellow with light gray seams, quartz, mica, opaques		0	8-10	0	
	GW		Gravel bed, quartz, chert cobbles	7.5yr 6/8				
10	SW		Gravelly sand, reddish yellow, wet, very fine grain, subangular, reddish yellow, dry/slightly moist					NO Sample
	CH		Sandy clay, wet, plastic, soft, white to pinkish white with light brownish yellow mottling	5yr 8/1	0	12-14	1.0	
	CH/SC		Clay, high plasticity, soft, very moist, pinkish-gray with pinkish white and dusky red mottling 15.20 alternating seams of clay with clayey sand (wet) slightly sandy clay, soft to medium stiff, mottled, red granules, brown-yellow-dusky red-light gray sand (very fine grain) seams between 19-20'	5yr 8/1	0	14-16	1.0	gravel in shoe
15	CH/SC				0	16-18	NR	
	CH/SC				0	18-20	1.2	
20	CH		Slightly silty clay, soft to medium stiff, high plasticity, moist, red granules, red, light gray, reddish yellow mottled	10yr 4/6	0	20-22	1.3	



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BORING NUMBER: OSMW-12

LOCATION: SE of OSMW-3, SW of OSMW-11
 Central N end of Schut property

PROJECT INFORMATION

PROJECT: GE Railcar Elkton
 SITE LOCATION: Elkton, MD
 JOB NO.: 2017
 LOGGED BY: Charley Montero
 PAGE: 2 of 2

DRILLING INFORMATION

DATE DRILLED: Default Listing
 DRILLING METHOD: Hollow Stem Auger
 DRILLED BY: Earth Matters Inc.
 EXISTING GRADE ELEVATION (FT. AMSL): 48.95
 SAMPLE COLLECTION METHOD: Split barrel

DEPTH	USCS	SOIL SYMBOLS	LITHOLOGIC DESCRIPTION	SOIL COLORS	PID (ppm)	SOIL SAMPLE		REMARKS OR FIELD OBSERVATIONS
						DEPTH	REC.	
			together, red increases with depth	5/yr 7/1 5/yr 7/6	0	22-24	1.4	
	CH		Sandy clay, wet, plastic, light gray/brown yellow mottled		0	24-26	1.6	
25	CH		Clay, red, very stiff, plastic, moist, yellow brown mottling, scattered granular and sand partings	10yr 4/6	0			
	CL		Very sandy clay, brown yellow, wet, stiff, low plasticity		0	26-28	1.6	
	SP		Sand, wet/saturated, very fine grain, light gray		0			
	CH		Sandy clay with sand, 0.5" seams, light gray with pale green mottling, white calcareous seams/partings, stiff, slight moist from 27"-alternating 6" beds, sandy clay and slightly clayey sand (saturated), mottled color pale green, white, light gray, red brownish (clay, stiff, plastic, sand, very fine grain, subrounded, medium dense) sand content increases with depth, mica content increases with depth	N8/ 5gy 8/1	0	28-30	1.5	
30					0	30-32	NR	No Recovery possibly encountered gravel (high blow count) gravel in barrel
					0	32-34	1.0	
					0	34-36	1.6	
35	SP		Sand, fine grain, abundant mica, dense, angular/subangular, wet, light greenish, gray mottled with light gray and brown yellow well sorted/poorly graded, minor clayey sand lenses	5G 8/1	0			
				10yr 7/1	0	36-38	1.8	
	CL		Saprolite, very micaceous/slightly sandy, clayey micaceous, plastic, slightly moist, grayish green and pale green mottled, grain color increases with depth	10gy 5/2 and 10G 6/2	0	38-40	1.9	Total Depth 40' bgs
40								



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BORING NUMBER: OSMW-13

LOCATION: ~400' SE of OSMW-5

PROJECT INFORMATION

PROJECT: GE Railcar Elkton
 SITE LOCATION: Elkton, MD
 JOB NO.: 2017
 LOGGED BY: Charley Montero
 PAGE: 1 of 2

DRILLING INFORMATION

DATE DRILLED: 09/21/05
 DRILLING METHOD: Hollow Stem Auger
 DRILLED BY: Earth Matters Inc.
 EXISTING GRADE ELEVATION (FT. AMSL): 33.55
 SAMPLE COLLECTION METHOD: Split barrel

DEPTH	USCS	SOIL SYMBOLS	LITHOLOGIC DESCRIPTION	SOIL COLORS	PID (ppm)	SOIL SAMPLE		REMARKS OR FIELD OBSERVATIONS
						DEPTH	REC.	
0			road gravel, sand, fill, grass		0	0-2	1	
	CL		Silty clay, dry, stiff/hard laminated micaceous, brown yellow	10yr 6/8	0	2-4	1.1	
	CL		Sandy clay, yellow brown to plasticity, dry/slightly moist, laminated, micaceous, very fine grain, sand particles	10yr 5/8	0			
	SP		Sand, very fine grain, dry tight seams alternating with loose seams, well sorted/poorly graded, reddish yellow, micaceous	7.5yr 6/8	0	4-6	1.2	concrete (?) @ ~5', auger can't cut, move ~5' start new hole
5	GW		Sandy gravel, quartzite, loose, cobble size, mixed with reddish yellow, fine grain sand, dry		0	6-8	1.0	
					0	8-10	0.95	
10	SP		Sand, wet, very fine grain, subangular, medium dense, brownish yellow with light gray seams, opaques, micaceous	10yr 6/8	0	10-12	0.95	
	SW		Gravelly sand, very fine grain, pebble size gravels, poorly sorted/well graded, brown yellow with reddish yellow mottling with seams of granule size pebbles with depth		0	12-14	1.3	
	SP		Sand with minor gravel brownish yellow, very fine grain, saturated, subangular, grain size decreases	10yr 6/0	0	14-16	1.4	
15				N8	0	16-18	1.15	*flowing/heaving sands, stop drilling p.u. H2O to offset head pressure of formation water
	CH		Slightly sandy clay, light green with yellow brown mottling, high plasticity, moist	10yr 7/2 5y 7/11	0	18-20	1.6	
	SP		Sand, dense, very fine grain, yellow brown, subrounded, saturated		0			
20			20-20.5', light gray clayey sand seam, very fine grain Sand, very fine grain, reddish yellow, poorly sorted/well		0	20-22	1.6	



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BORING NUMBER: OSMW-13

LOCATION: ~400' SE of OSMW-5

PROJECT INFORMATION

DRILLING INFORMATION

PROJECT: GE Railcar Elkton
 SITE LOCATION: Elkton, MD
 JOB NO.: 2017
 LOGGED BY: Charley Montero
 PAGE: 2 of 2

DATE DRILLED: 09/21/05
 DRILLING METHOD: Hollow Stem Auger
 DRILLED BY: Earth Matters Inc.
 EXISTING GRADE ELEVATION (FT. AMSL): 33.55
 SAMPLE COLLECTION METHOD: Split barrel

DEPTH	USCS	SOIL SYMBOLS	LITHOLOGIC DESCRIPTION	SOIL COLORS	PID (ppm)	SOIL SAMPLE		REMARKS OR FIELD OBSERVATIONS	
						DEPTH	REC.		
25			graded, subrounded, micaceous, saturated, medium dense color grades to yellow with brown yellow mottling alternate seams, light gray and light brown gray scattered/minor granule size gravels, mica flakes	7.5yr 6/6					
					10yr 8/8	0	22-24	0.9	
						0	24-26	1.7	
						0.4	26-28	1.1	
	SW		Color grades to very light gray, gravelly sand, very fine grain, saturated, coarse granule size gravels, red yellow seams, subangular sand	N8					
			Sand, very fine grain, white, subangular, saturated, micaceous	N9	0	28-30	1.7		
	SP		Sandy clay seam, gray with dusky red with red yellow bands mottling, opaques increases with depth						
			Fine grain sand seams, very fine grain sand, dense, saturated, light gray						
	30		Color changes, sand, red yellow, very fine grain, saturated, subrounded		0	30-32	0.5		
	SP			N8					
				0	32-34	0.75			
				N8					
				0	34-36	1.2			
35				10yr 6/8					
				0	36-37	1.4			
SW		Gravel increases with content							
GC		gravelly clay, wet, pebble size gravels							
CH		weathered saprolite, very stiff, slightly moist	10	0	38-40	1.8		Total Depth 40' bgs	

BORING NUMBER: OSMW-14
 LOCATION: SE corner of Schult Property

PROJECT INFORMATION

DRILLING INFORMATION

PROJECT: GE Railcar Elkton
 SITE LOCATION: Elkton, MD
 JOB NO.: 2017
 LOGGED BY: Charley Montero
 PAGE: 1 of 2

DATE DRILLED: 09/23/05
 DRILLING METHOD: Hollow Stem Auger
 DRILLED BY: Earth Matters Inc.
 EXISTING GRADE ELEVATION (FT. AMSL): 42.15
 SAMPLE COLLECTION METHOD: Split barrel

DEPTH	USCS	SOIL SYMBOLS	LITHOLOGIC DESCRIPTION	SOIL COLORS	PID (ppm)	SOIL SAMPLE		REMARKS OR FIELD OBSERVATIONS
						DEPTH	REC.	
0								
							1.6	No sample, gravel, concrete, rubber
					0	4-6	1.0	
5	CL		Silty clay, brittle, laminated, brown yellow with light gray mottling, low plasticity		0	6-8	0	No recovery, gravel (road base) in shoe 6-8' and 8-10'
					0	8-10	0.7	
	CH		Sandy clay, very moist, brown yellow, high plasticity, sand increases with depth, light gray/gray mottling and yellow brown mottling, soft to medium soft		0	10-12	1.8	
10	CH		Clay, slightly silty, light gray, plastic, very moist, red brown granules		0	12-14	1.6	
	SP		Sand, very fine grain, yellow brown/pale brown, subangular, opaques, mica, loose, moist, 1" sand seams		0			
	CH		Sandy clay, soft plastic, light gray with yellow brown mottling					
	GW		Sandy gravel with minor clay granules to coarse mica flakes, pebble size gravel, quartz chert					gravel, augers chattering, drill until out of gravel before next sample
15								
					5yr 6/6		0.95	
					0	16-18		
	SW		Sand with gravel, fine to medium grained, poorly sorted/well graded, subangular mica, quartz, loose/medium dense, wet @ 16' reddish yellow		0	18-20		18' sample saturated
20	SW		Gravelly sand, saturated, reddish yellow, loose-medium dense, fine grain-medium grain sand, gravels: pebble size		0	20-22		

BORING NUMBER: OSMW-14
 LOCATION: SE corner of Schult Property

PROJECT INFORMATION

DRILLING INFORMATION

PROJECT: GE Railcar Elkton
 SITE LOCATION: Elkton, MD
 JOB NO.: 2017
 LOGGED BY: Charley Montero
 PAGE: 2 of 2

DATE DRILLED: 09/23/05
 DRILLING METHOD: Hollow Stem Auger
 DRILLED BY: Earth Matters Inc.
 EXISTING GRADE ELEVATION (FT. AMSL): 42.15
 SAMPLE COLLECTION METHOD: Split barrel

DEPTH	USCS	SOIL SYMBOLS	LITHOLOGIC DESCRIPTION	SOIL COLORS	PID (ppm)	SOIL SAMPLE		REMARKS OR FIELD OBSERVATIONS
						DEPTH	REC.	
			quartz, mica, opaques, subrounded		0	22-24	1.4	
25	SP		Sand, very fine grain, loose saturated, very pale brown, quartz, mica, opaques, alternate bands of color change, very pale brown/light gray		0	24-26		
			Clay, plastic, soft, mottled, moist, light gray with red yellow and brown yellow mottling		0	26-28	1.8	
	CH				0	28-30	1.5	
	SP		Sand saturated very fine grain well sorted/poorly, white/brown yellow/red yellow bands, opaques, mica, subrounded/subangular		0	30-32	1.2	
30	CH		Clay, soft, high plasticity, moist, dusky red granules, red brown with light gray mottling		0	32-34	1.5	
					0	34-36		
35	SP		Sand, very fine grain, subangular, saturated, opaques, mica, light gray and red brown bands seams of dusky red sandy clay, loose 34' color change to red yellow 34.5-35.2' 1" seams of dusky red sandy clay		0	36-38		sand very loose sampler falls
			Clay with sand partings, pale green/light greenish gray with red brown bands		0	38-40	1.5	Total Depth = 40' bgs
40	CH		Weathered saprolite, very pale green to pale green with minor dusky red and red brown mottling	10G 8/2 10G 6/2	0			

	BORING NUMBER: OSMW-14 LOCATION: SE corner of Schult Property
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PROJECT INFORMATION		DRILLING INFORMATION	
PROJECT:	GE Railcar Elkton	DATE DRILLED:	09/23/05
SITE LOCATION:	Elkton, MD	DRILLING METHOD:	Hollow Stem Auger
JOB NO.:	2017	DRILLED BY:	Earth Matters Inc.
LOGGED BY:	Charley Montero	EXISTING GRADE ELEVATION (FT. AMSL):	42.15
PAGE:	1 of 2	SAMPLE COLLECTION METHOD:	Split barrel

DEPTH	USCS	SOIL SYMBOLS	LITHOLOGIC DESCRIPTION	SOIL COLORS	PID (ppm)	SOIL SAMPLE		REMARKS OR FIELD OBSERVATIONS
						DEPTH	REC.	
0								
							1.6	No sample, gravel, concrete, rubber
					0	4-6	1.0	
5	CL		Silty clay, brittle, laminated, brown yellow with light gray mottling, low plasticity		0	6-8	0	No recovery, gravel (road base) in shoe 6-8' and 8-10'
					0	8-10	0.7	
	CH		Sandy clay, very moist, brown yellow, high plasticity, sand increases with depth, light gray/gray mottling and yellow brown mottling, soft to medium soft		0	10-12	1.8	
10	CH		Clay, slightly silty, light gray, plastic, very moist, red brown granules		0	12-14	1.6	
	SP		Sand, very fine grain, yellow brown/pale brown, subangular, opaques, mica, loose, moist, 1" sand seams		0			
	CH		Sandy clay, soft plastic, light gray with yellow brown mottling					
	GW		Sandy gravel with minor clay granules to coarse mica flakes, pebble size gravel, quartz chert					gravel, augers chattering, drill until out of gravel before next sample
15					0	16-18	0.95	
				5yr 6/6				
	SW		Sand with gravel, fine to medium grained, poorly sorted/well graded, subangular mica, quartz, loose/medium dense, wet @ 16' reddish yellow		0	18-20		18' sample saturated
20	SW		Gravelly sand, saturated, reddish yellow, loose-medium dense, fine grain-medium grain sand, gravels: pebble size		0	20-22		



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BORING NUMBER: OSMW-15
 LOCATION: ~380' S of OSMW-6

PROJECT INFORMATION

DRILLING INFORMATION

PROJECT: GE Railcar Elkton
 SITE LOCATION: Elkton, MD
 JOB NO.: 2017
 LOGGED BY: Charley Montero
 PAGE: 1 of 3

DATE DRILLED: 09/26/05
 DRILLING METHOD: Hollow Stem Auger
 DRILLED BY: Earth Matters Inc.
 EXISTING GRADE ELEVATION (FT. AMSL): 42.34
 SAMPLE COLLECTION METHOD: Split barrel

DEPTH	USCS	SOIL SYMBOLS	LITHOLOGIC DESCRIPTION	SOIL COLORS	PID (ppm)	SOIL SAMPLE		REMARKS OR FIELD OBSERVATIONS
						DEPTH	REC.	
0			Drill down to 4' bgs to ensure through road base and RR spur material road base 0-12"			No Sample		
5	CH		Silty clay, soft, high plasticity, light yellowish brown red yellow mottling	10yr 6/4	0	4-6	1.0	
					0	6-8	1.0	
10	SW		Gravelly sand, fine grain with pebble size gravels, quartz chert mica, moist, dense/medium dense, reddish yellow	7.5yr 6/8	0	8-10	1.1	
						No Sample		~9.5' large gravel causing augers to chatter, drill to 12' to collect sample
	SP		Sand with gravel, saturated, loose, reddish with fine grain/very fine grain	7.5yr 6/8	0	12-14	0.6	sampler is wet, gravel in sampler
					0	14-16	0.95	
15	SW		Gravelly sand, medium/coarse grained with pebble/cobble size gravels, saturated, subangular sand, subrounded gravels, quartz, mica, reddish yellow		0	16-18	1.1	
					0	18-20	0.6	
	SP		Sand, dense, white, saturated, very fine grain, dense, well sorted/poorly graded, opaques mica, intermittent yellow brown mottling	10yr 8/2-8/3	0	20-22	0.5	



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BORING NUMBER: OSMW-15

LOCATION: ~380' S of OSMW-6

PROJECT INFORMATION

DRILLING INFORMATION

PROJECT: GE Railcar Elkton
 SITE LOCATION: Elkton, MD
 JOB NO.: 2017
 LOGGED BY: Charley Montero
 PAGE: 2 of 3

DATE DRILLED: 09/26/05
 DRILLING METHOD: Hollow Stem Auger
 DRILLED BY: Earth Matters Inc.
 EXISTING GRADE ELEVATION (FT. AMSL): 42.34
 SAMPLE COLLECTION METHOD: Split barrel

DEPTH	USCS	SOIL SYMBOLS	LITHOLOGIC DESCRIPTION	SOIL COLORS	PID (ppm)	SOIL SAMPLE		REMARKS OR FIELD OBSERVATIONS
						DEPTH	REC.	
25	SW		Sand with gravel saturated, very fine grain subrounded with gravels size quartz granules opaques, mica, loose/medium dense, brown yellow	N8-N7	0	22-24	0	No Recovery, gravel in sampler (most likely carried down from above)
			24-26			1.1		
			26-28			1.4		
			28-30			1.1		
			30-32			0.9	gravel in sampler	
35	CH		pinkish gray and red brown bands, intermittent black laminations, grain size decreases with depth	5yr 5/2-4/2	0	32-34	0.8	
			1"-2" seams of clay (light gray red brown mottled) reddish yellow sand with clay, clay increases with depth, very fine grain			34-38	1.4	
			Clay, stiff, hard, high plasticity mottled, light gray and black (2° color) dark red brown and reddish gray (1° color) vertical light gray fingering, laminations decreases with depth, light gray/white granule size "spheres" (saprolite? very weathered)			36-38	1.5	
40	CH		Dark red/dusky red clay, very stiff, high plasticity		0	40-42	1.9	



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BORING NUMBER: OSMW-15
 LOCATION: ~380' S of OSMW-6

PROJECT INFORMATION

DRILLING INFORMATION

PROJECT: GE Railcar Elkton
 SITE LOCATION: Elkton, MD
 JOB NO.: 2017
 LOGGED BY: Charley Montero
 PAGE: 3 of 3

DATE DRILLED: 09/26/05
 DRILLING METHOD: Hollow Stem Auger
 DRILLED BY: Earth Matters Inc.
 EXISTING GRADE ELEVATION (FT. AMSL): 42.34
 SAMPLE COLLECTION METHOD: Split barrel

DEPTH	USCS	SOIL SYMBOLS	LITHOLOGIC DESCRIPTION	SOIL COLORS	PID (ppm)	SOIL SAMPLE		REMARKS OR FIELD OBSERVATIONS
						DEPTH	REC.	
45	CH		Saprolite, dark green with light gray fingering and spheres					Total Depth = 42' bgs

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GE Railcar, Elkton, MD
RSA Project No. 2017-19

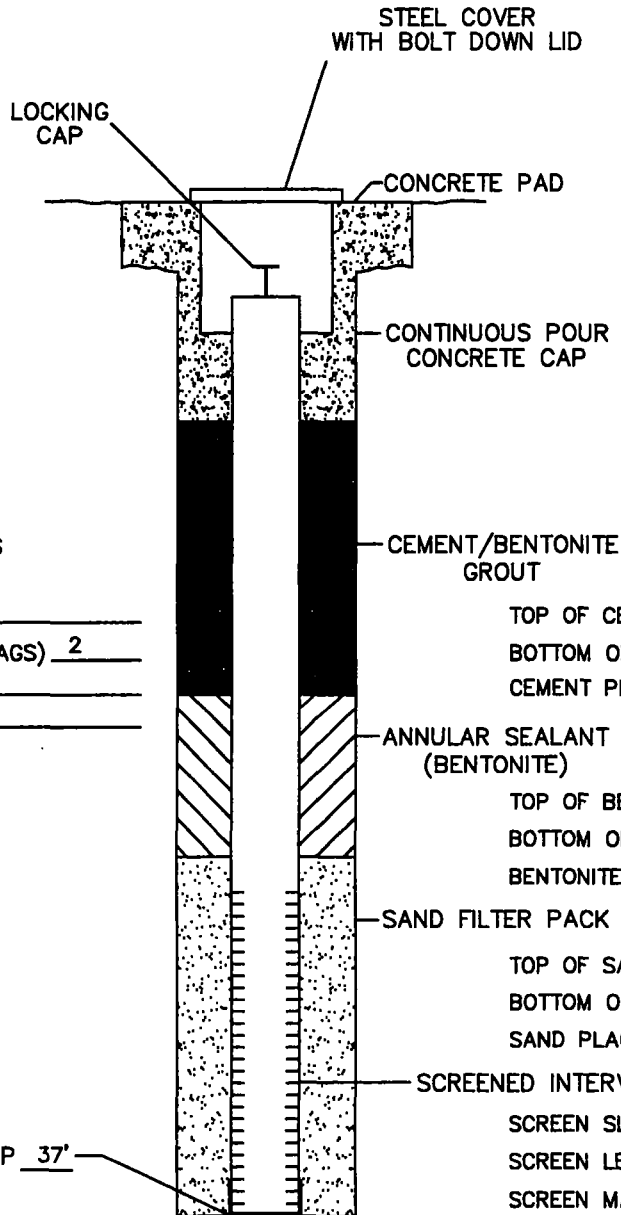
Off-Site Investigation Report
April 25, 2006

APPENDIX 2.
WELL COMPLETION RECORDS

RSA INC.
WELL COMPLETION RECORD

CLIENT : GE RAILCAR WELL NO. : OSMW-11
 PROJECT NO. : 2017 DATE : 09/21/05
 SITE : ELKTON MD DRILLER : EARTH MATTERS INC. - PAUL VAN DOREN
 LOCATION : 350' SE OF OSMW-3 GEO/TECH : RSA - CHARLEY MONTERO

TOP OF CASING ELEVATION : 54.66 FT. MSL TYPE OF REFERENCE : REGISTERED SURVEYOR
 GROUND ELEVATION : 54.86 FT. MSL STICK-UP (FT.) : FLUSH COMPLETION
 TOP OF SCREEN ELEVATION : 37.96 FT. MSL BORING DEPTH (BGS) : 37



HOLE DIAMETER (IN.) 8
 CASING DIAMETER (IN.) 2
 CASING LENGTH (FT.) _____
 CASING MATERIAL PVC
 CENTRALIZER DEPTHS (FT.) _____

MATERIALS

CEMENT (SKS) _____
 BENTONITE (CHIP BAGS) 2
 SAND (SKS) 12.5
 SAND SIZE #1

TOP OF CEMENT (BGS) 2
 BOTTOM OF CEMENT (BGS) 10
 CEMENT PLACEMENT METHOD POUR BY HAND

TOP OF BENTONITE (BGS) 10
 BOTTOM OF BENTONITE (BGS) 14
 BENTONITE PLACEMENT METHOD POUR BY HAND

TOP OF SAND (BGS) 14
 BOTTOM OF SAND (BGS) 37
 SAND PLACEMENT METHOD POUR BY HAND

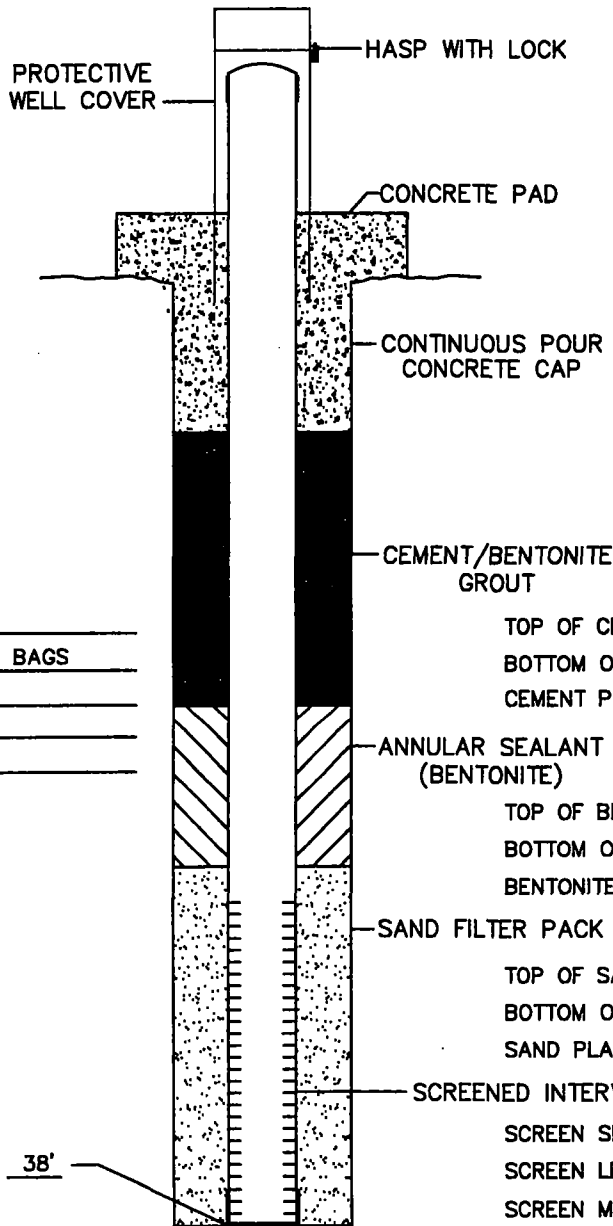
SCREEN SLOT SIZE (IN.) 0.010
 SCREEN LENGTH (FT.) 19.65
 SCREEN MATERIAL PVC
 TOP OF SCREEN (BGS) 16.90
 BOTTOM OF SCREEN (BGS) 36.55

NOTE:
BGS = BELOW GROUND SURFACE

RSA INC.
WELL COMPLETION RECORD

CLIENT : GE RAILCAR WELL NO. : OSMW-12
 PROJECT NO. : 2017 DATE : 09/22/05
 SITE : ELKTON, MD. DRILLER : EARTH MATTERS INC. - PAUL VAN DOREN
 LOCATION : _____ GEO/TECH : RSA - CHARLEY MONTERO

TOP OF CASING ELEVATION : 51.49 FT. MSL TYPE OF REFERENCE : REGISTERED SURVEYOR
 GROUND ELEVATION : 48.95 FT. MSL STICK-UP (FT.) : 2.54
 TOP OF SCREEN ELEVATION : 31.05 FT. MSL BORING DEPTH (BGS) : 38



HOLE DIAMETER (IN.) 8
 CASING DIAMETER (IN.) 2
 CASING LENGTH (FT.) PVC
 CASING MATERIAL PVC
 CENTRALIZER DEPTHS (FT.) _____

MATERIALS

CEMENT (SKS) _____
 BENTONITE (SKS) 2 BAGS
 SAND (SKS) 12
 SAND SIZE #1
 PVC (FT) 40

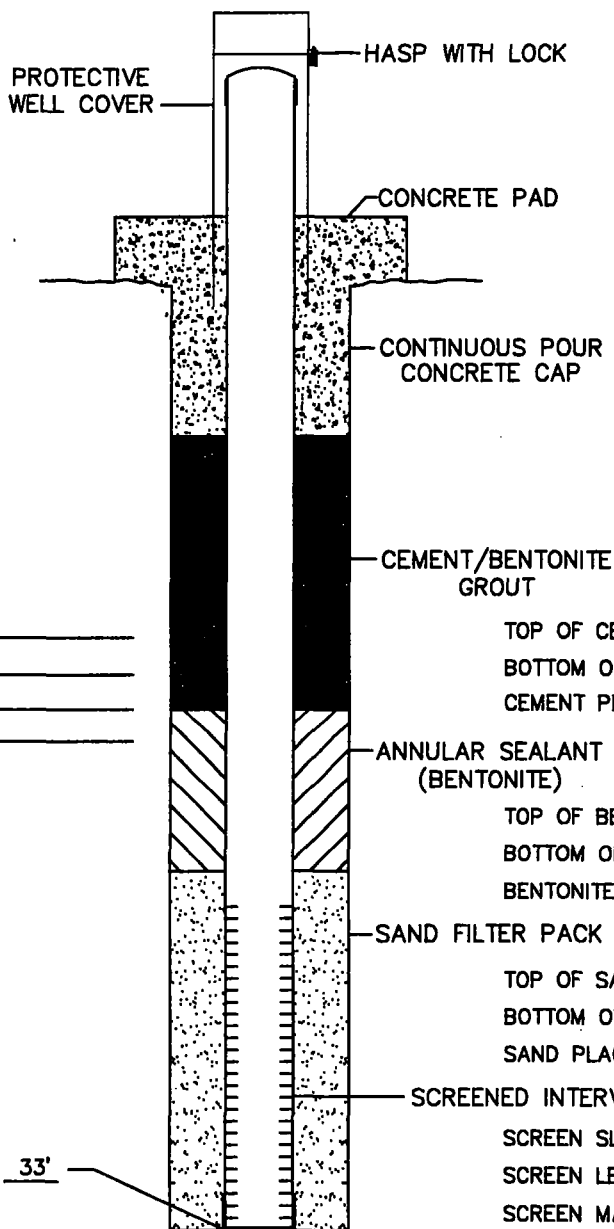
TOP OF CEMENT (BGS) 2
 BOTTOM OF CEMENT (BGS) 12
 CEMENT PLACEMENT METHOD POUR BY HAND
 TOP OF BENTONITE (BGS) 12
 BOTTOM OF BENTONITE (BGS) 15
 BENTONITE PLACEMENT METHOD POUR BY HAND
 TOP OF SAND (BGS) 15
 BOTTOM OF SAND (BGS) 38
 SAND PLACEMENT METHOD POUR BY HAND
 SCREEN SLOT SIZE (IN.) 0.010
 SCREEN LENGTH (FT.) 19.65
 SCREEN MATERIAL PVC
 TOP OF SCREEN (BGS) 17.90
 BOTTOM OF SCREEN (BGS) 37.55

NOTE:
BGS = BELOW GROUND SURFACE

RSA INC.
WELL COMPLETION RECORD

CLIENT : GE RAILCAR WELL NO. : MW-12R
 PROJECT NO. : 2017 DATE : 09/27/05
 SITE : ELKTON, MD. DRILLER : EARTH MATTERS INC. - PAUL VAN DOREN
 LOCATION : _____ GEO/TECH : RSA - CHARLEY MONTERO

TOP OF CASING ELEVATION : 71.78 FT. MSL TYPE OF REFERENCE : REQUESTED SURVEYOR
 GROUND ELEVATION : 69.34 FT. MSL STICK-UP (FT.) : 2.44
 TOP OF SCREEN ELEVATION : 51.44 FT. MSL BORING DEPTH (BGS) : 33



HOLE DIAMETER (IN.) 8
 CASING DIAMETER (IN.) 2
 CASING LENGTH (FT.) _____
 CASING MATERIAL PVC
 CENTRALIZER DEPTHS (FT.) _____

MATERIALS

CEMENT (SKS) _____
 BENTONITE (SKS) 2
 SAND (SKS) 10
 SAND SIZE #1

TOP OF CEMENT (BGS) 2
 BOTTOM OF CEMENT (BGS) 10
 CEMENT PLACEMENT METHOD POUR BY HAND

ANNULAR SEALANT (BENTONITE)
 TOP OF BENTONITE (BGS) 10
 BOTTOM OF BENTONITE (BGS) 15
 BENTONITE PLACEMENT METHOD POUR BY HAND

SAND FILTER PACK
 TOP OF SAND (BGS) 15
 BOTTOM OF SAND (BGS) 33
 SAND PLACEMENT METHOD POUR BY HAND

SCREENED INTERVAL
 SCREEN SLOT SIZE (IN.) 0.010
 SCREEN LENGTH (FT.) 14.65
 SCREEN MATERIAL PVC
 TOP OF SCREEN (BGS) 17.90
 BOTTOM OF SCREEN (BGS) 32.55

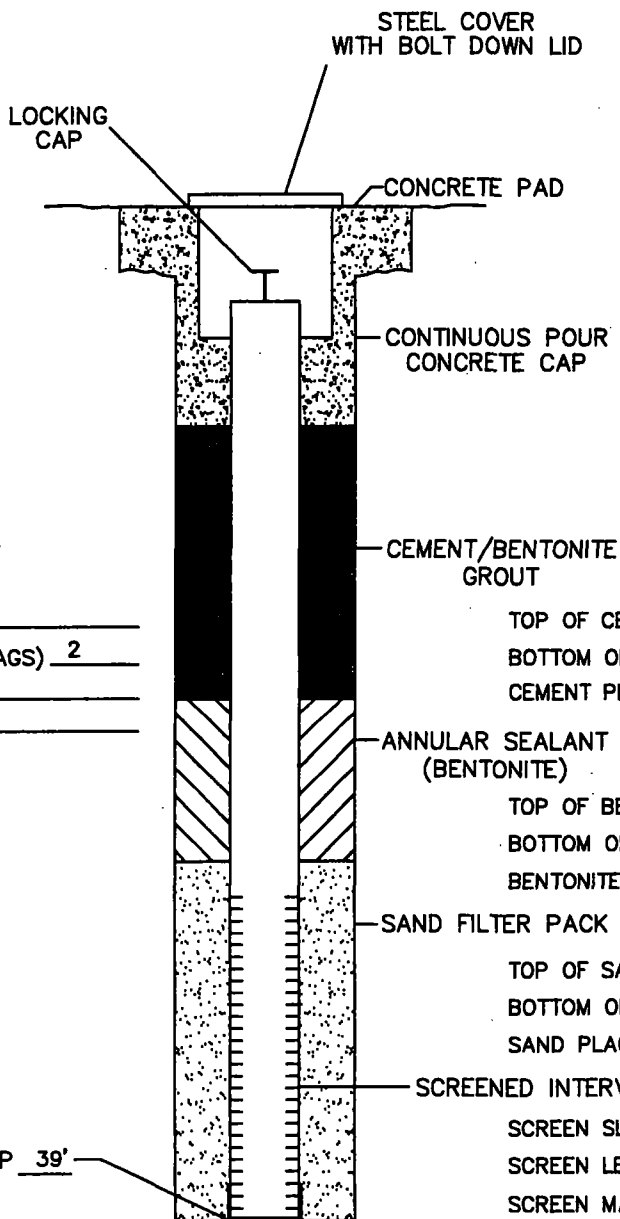
PVC BOTTOM CAP 33'

NOTE:
BGS = BELOW GROUND SURFACE

RSA INC.
WELL COMPLETION RECORD

CLIENT : GE RAILCAR WELL NO. : OSMW-13
 PROJECT NO. : 2017 DATE : 09/21/05
 SITE : ELKTON MD DRILLER : EARTH MATTERS INC. - PAUL VAN DOREN
 LOCATION : 400' SE OF OSMW-5 GEO/TECH : RSA - CHARLEY MONTERO

TOP OF CASING ELEVATION : 33.07 FT. MSL TYPE OF REFERENCE : REGISTERED SURVEYOR
 GROUND ELEVATION : 33.55 FT. MSL STICK-UP (FT.) : FLUSH COMPLETION
 TOP OF SCREEN ELEVATION : 14.65 FT. MSL BORING DEPTH (BGS) : 39



HOLE DIAMETER (IN.) 8
 CASING DIAMETER (IN.) 2
 CASING LENGTH (FT.) _____
 CASING MATERIAL PVC
 CENTRALIZER DEPTHS (FT.) _____

MATERIALS

CEMENT (SKS) _____
 BENTONITE (CHIP BAGS) 2
 SAND (SKS) 12
 SAND SIZE #1

TOP OF CEMENT (BGS) 2
 BOTTOM OF CEMENT (BGS) 12
 CEMENT PLACEMENT METHOD POUR BY HAND

ANNULAR SEALANT (BENTONITE)
 TOP OF BENTONITE (BGS) 12
 BOTTOM OF BENTONITE (BGS) 15
 BENTONITE PLACEMENT METHOD POUR BY HAND

SAND FILTER PACK
 TOP OF SAND (BGS) 15
 BOTTOM OF SAND (BGS) 39
 SAND PLACEMENT METHOD POUR BY HAND

SCREENED INTERVAL
 SCREEN SLOT SIZE (IN.) 0.010
 SCREEN LENGTH (FT.) 19.65
 SCREEN MATERIAL PVC
 TOP OF SCREEN (BGS) 18.90
 BOTTOM OF SCREEN (BGS) 38.55

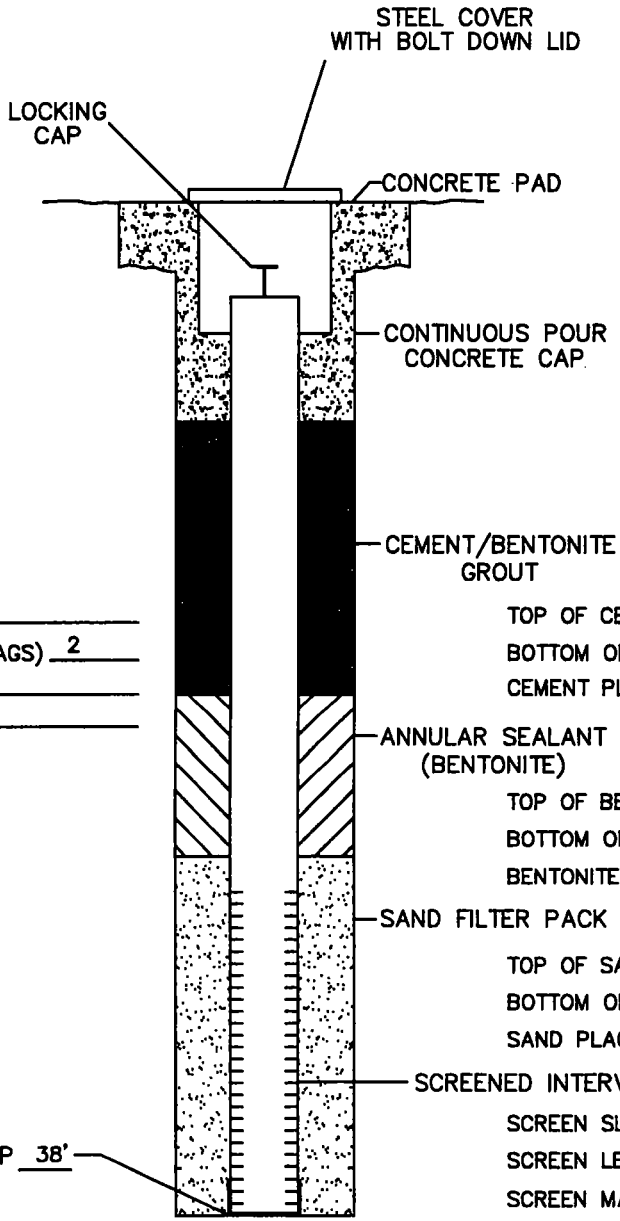
BOTTOM OF CAP 39'

NOTE:
 BGS = BELOW GROUND SURFACE

RSA INC.
WELL COMPLETION RECORD

CLIENT : GE RAILCAR WELL NO. : OSMW-14
 PROJECT NO. : 2017 DATE : 09/23/05
 SITE : ELKTON MD DRILLER : EARTH MATTERS INC. - PAUL VAN DOREN
 LOCATION : SE CORNER SCHULT PROPERTIES GEO/TECH : RSA - CHARLEY MONTERO

TOP OF CASING ELEVATION : 41.98 FT. MSL TYPE OF REFERENCE : REGISTERED SURVEYOR
 GROUND ELEVATION : 42.15 FT. MSL STICK-UP (FT.) : FLUSH MOUNTED
 TOP OF SCREEN ELEVATION : 24.25 FT. MSL BORING DEPTH (BGS) : 38



HOLE DIAMETER (IN.) 8
 CASING DIAMETER (IN.) 2
 CASING LENGTH (FT.) _____
 CASING MATERIAL PVC
 CENTRALIZER DEPTHS (FT.) _____

MATERIALS

CEMENT (SKS) _____
 BENTONITE (CHIP BAGS) 2
 SAND (SKS) 11.5
 SAND SIZE #1

TOP OF CEMENT (BGS) 2
 BOTTOM OF CEMENT (BGS) 12
 CEMENT PLACEMENT METHOD POUR BY HAND

TOP OF BENTONITE (BGS) 12
 BOTTOM OF BENTONITE (BGS) 15
 BENTONITE PLACEMENT METHOD POUR BY HAND

TOP OF SAND (BGS) 15
 BOTTOM OF SAND (BGS) 38
 SAND PLACEMENT METHOD POUR BY HAND

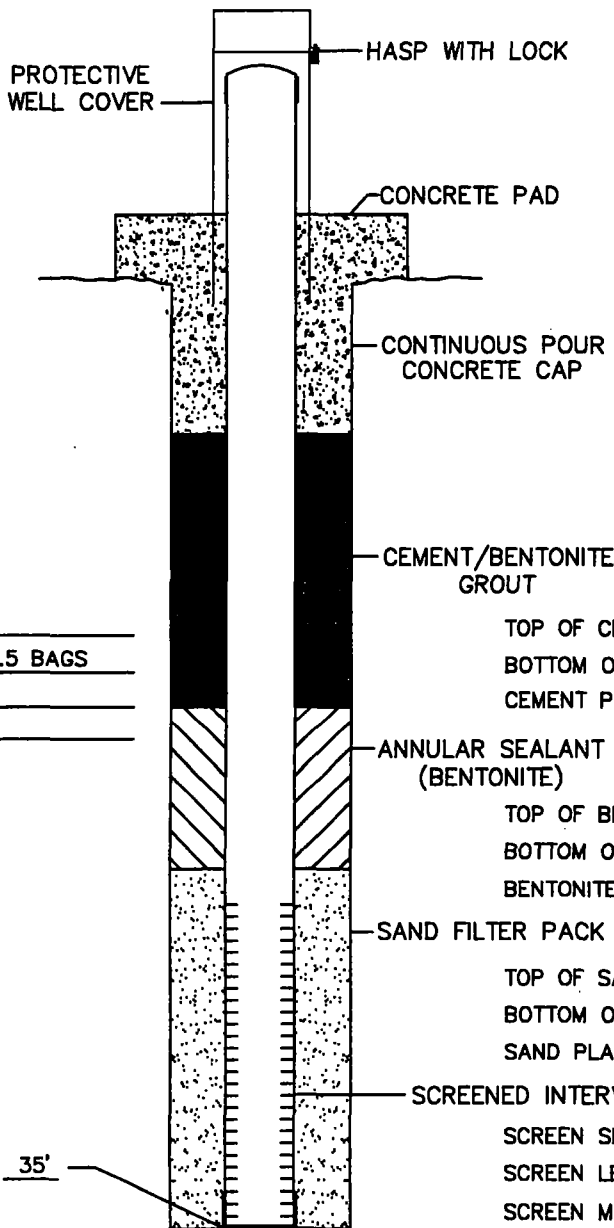
SCREEN SLOT SIZE (IN.) 0.010
 SCREEN LENGTH (FT.) 19.65
 SCREEN MATERIAL PVC
 TOP OF SCREEN (BGS) 17.90
 BOTTOM OF SCREEN (BGS) 37.55

NOTE:
BGS = BELOW GROUND SURFACE

RSA INC.
WELL COMPLETION RECORD

CLIENT : GE RAILCAR WELL NO. : OSMW-15
 PROJECT NO. : 2017 DATE : 09/26/05
 SITE : ELKTON, MD. DRILLER : EARTH MATTERS INC. - PAUL VAN DOREN
 LOCATION : _____ GEO/TECH : RSA - CHARLEY MONTERO

TOP OF CASING ELEVATION : 45.25 FT. MSL TYPE OF REFERENCE : REGISTERED SURVEYOR
 GROUND ELEVATION : 42.34 FT. MSL STICK-UP (FT.) : 2.81
 TOP OF SCREEN ELEVATION : 27.44 FT. MSL BORING DEPTH (BGS) : 35



HOLE DIAMETER (IN.) 8
 CASING DIAMETER (IN.) 2
 CASING LENGTH (FT.) PVC
 CASING MATERIAL PVC
 CENTRALIZER DEPTHS (FT.) _____

MATERIALS

CEMENT (SKS) _____
 BENTONITE (SKS) 2.5 BAGS
 SAND (SKS) 13
 SAND SIZE #1

TOP OF CEMENT (BGS) 2
 BOTTOM OF CEMENT (BGS) 9
 CEMENT PLACEMENT METHOD POUR BY HAND

ANNULAR SEALANT (BENTONITE)

TOP OF BENTONITE (BGS) 9
 BOTTOM OF BENTONITE (BGS) 12
 BENTONITE PLACEMENT METHOD POUR BY HAND

SAND FILTER PACK

TOP OF SAND (BGS) 12
 BOTTOM OF SAND (BGS) 35
 SAND PLACEMENT METHOD POUR BY HAND

SCREENED INTERVAL

SCREEN SLOT SIZE (IN.) 0.010
 SCREEN LENGTH (FT.) 19.65
 SCREEN MATERIAL PVC
 TOP OF SCREEN (BGS) 14.90
 BOTTOM OF SCREEN (BGS) 34.55

PVC BOTTOM CAP 35'

NOTE:
 BGS = BELOW GROUND SURFACE

MARYLAND DEPARTMENT OF THE ENVIRONMENT, WATER MANAGEMENT ADMINISTRATION
 1800 Washington Blvd., Baltimore, Maryland 21230 (410) 537-3784

 WATER WELL ABANDONMENT-SEALING REPORT FORM

SUBMIT COPIES OF COMPLETED FORM TO:

- * COUNTY ENVIRONMENT AGENCY (contact MDE, WMA if address needed)
- * WELL OWNER
- * MDE, WATER MANAGEMENT ADMINISTRATION, WELL PROGRAM

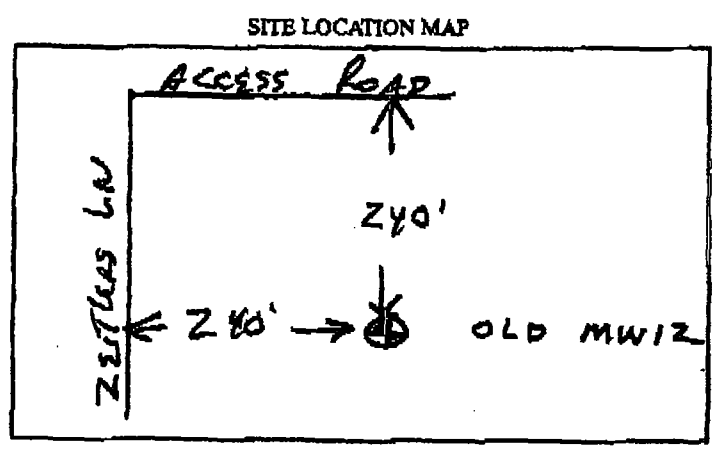
DATE WELL ABANDONED: 9-23-05 (month/day/year)

- * PERMIT NUMBER OF ABANDONED WELL (if any) _____
- * PERMIT NUMBER OF REPLACEMENT WELL _____

* PERSON ABANDONING WELL: P. KANDREW
 * OWNER'S NAME: GERAL SERVICES

WELL DRILLERS LICENSE NUMBER: AWD 783
 CIRCLE: MWD/MSD/MGD

* WELL LOCATION:
 COUNTY: CECIL
 NEAREST TOWN: ELTON
 TAX MAP 305 BLOCK _____ PARCEL 585
 SUBDIVISION: _____
 SECTION: _____ LOT: _____
 NEAREST ROAD: ZETTLER'S LAKE



- * TYPE OF WELL BEING ABANDONED:
- DRILLED JETTED
 - BORED/AUGERED HAND DUG
 - OTHER (specify) _____

LOG OF SEALING MATERIAL

MATERIAL	FEET	
	FROM	TO
Bentonite chips	0	38
VOLUME OF MATERIAL USED		
150 lbs chips		

- * USE CODE:
- DOMESTIC MUNICIPAL/PUBLIC
 - IRRIGATION INDUSTRIAL
 - TEST/OBSERVATION GEOTHERMAL

- * TYPE OF CASING:
- STEEL PLASTIC
 - CONCRETE OTHER (specify) _____

* SIZE OF CASING: 2 INCHES IN DIAMETER

* DEPTH OF WELL: 38 FEET DEEP

* WAS ANY CASING REMOVED? YES NO
 If yes, length removed, in feet: _____

* WAS CASING RIPPED OR PERFORATED? YES NO

SIGNATURE: [Signature]

 SIGNATURE-MASTER WELL DRILLER OR SUPERVISING SANITARIAN

047 MWD/MSD/MGD 10/21/05
 LICENSE # CIRCLE ONE DATE

C1 2991

SEQUENCE NO. (MDE USE ONLY)

STATE OF MARYLAND WELL COMPLETION REPORT

THIS REPORT MUST BE SUBMITTED WITHIN 48 DAYS AFTER WELL IS COMPLETED.

COUNTY NUMBER GERALD MW-12A

(THIS NUMBER IS TO BE PUNCHED IN COLS. 3-6 ON ALL CARDS)

DATE RECEIVED

DATE WELL COMPLETED 10 14 05

DEPTH OF WELL 33 (TO NEAREST FOOT)

PERMIT NO. FROM "PERMIT TO DRILL WELL" CE-95-1236

OWNER GERALD SERVICE STREET OR RFD 147 N. CLARK ST TOWN CHICAGO IL 60601

WELL LOG

Table with columns: DESCRIPTION, FEET (FROM, TO), CHECK IF WATER BEARING. Rows include Yellow Brown Silty Clay, Red Brown Sandy Clay, Brown Sand and Gravel, Lt Gray Sandy Clay, Yellow Brown Sand with some clay, Brown to Gray to Green Sandy Clay.

GROUTING RECORD

WELL HAS BEEN GROUTED (Circle Appropriate Box) TYPE OF GROUTING MATERIAL (Circle one) CEMENT [C] BENTONITE CLAY [B] NO. OF BAGS 5 NO. OF POUNDS 250 GALLONS OF WATER 15 DEPTH OF GROUT SEAL (to nearest foot) from 0 to 15

CASING RECORD

MAIN CASING TYPE PL Nominal diameter top (main) casing (nearest inch) 2 Total depth of main casing (nearest foot) 18

SCREEN RECORD

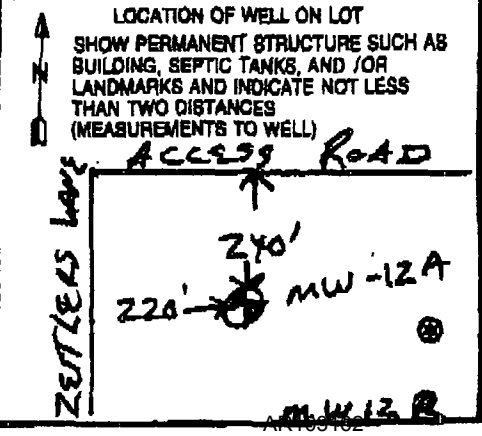
SCREEN TYPE OF OPEN HOLE PL BR HO Insert appropriate code below

PUMPING TEST

HOURS PUMPED (nearest hour) PUMPING RATE (gal. per min.) METHOD USED TO MEASURE PUMPING RATE WATER LEVEL (distance from land surface) BEFORE PUMPING WHEN PUMPING TYPE OF PUMP USED (for test) A air P piston T turbine C centrifugal R rotary O other J jet S submersible

PUMP INSTALLED

DRILLER INSTALLED PUMP (CIRCLE) (YES OR NO) IF DRILLER INSTALLS PUMP, THIS SECTION MUST BE COMPLETED FOR ALL WELLS. TYPE OF PUMP INSTALLED PLACE (A,C,J,P,R,S,T,O) IN BOX 29. CAPACITY: GALLONS PER MINUTE (to nearest gallon) PUMP HORSE POWER PUMP COLUMN LENGTH (nearest ft.) CASING HEIGHT (circle appropriate box and enter casing height) LAND SURFACE



NUMBER OF UNSUCCESSFUL WELLS: 0 WELL HYDROFRACTURED Y N

CIRCLE APPROPRIATE LETTER A A WELL WAS ABANDONED AND SEALED WHEN THIS WELL WAS COMPLETED E ELECTRIC LOG OBTAINED P TEST WELL CONVERTED TO PRODUCTION WELL

I HEREBY CERTIFY THAT THIS WELL HAS BEEN CONSTRUCTED IN ACCORDANCE WITH COMAR 29.04.01 "WELL CONSTRUCTION" AND IN CONFORMANCE WITH ALL CONDITIONS STATED IN THE ABOVE CAPTIONED PERMIT, AND THAT THE INFORMATION PRESENTED HEREIN IS ACCURATE AND COMPLETE TO THE BEST OF MY KNOWLEDGE.

DRILLERS LIC. NO. 1 MG 00472 DRILLERS SIGNATURE (MUST MATCH SIGNATURE ON APPLICATION) LIC. NO. 1 D

DEPTH (nearest ft.) PL 18 33

DIAMETER OF SCREEN 2 (NEAREST INCH) GRVEL PACK IF WELL DRILLED WAS FLOWING WELL INSERT F IN BOX 68

MDE USE ONLY (NOT TO BE FILLED IN BY DRILLER) TELESCOPE CASING LOG INDICATOR OTHER DATA

C1 2996

SEQUENCE NO. (MDE USE ONLY)

STATE OF MARYLAND WELL COMPLETION REPORT FILL IN THIS FORM COMPLETELY PLEASE TYPE

THIS REPORT MUST BE SUBMITTED WITHIN 45 DAYS AFTER WELL IS COMPLETED.

(THIS NUMBER IS TO BE PUNCHED IN COLS. 3-6 ON ALL CARDS)

COUNTY NUMBER GEORGETOWN 15

DATE RECEIVED

DATE WELL COMPLETED

DEPTH OF WELL 35 (TO NEAREST FOOT)

PERMIT NO. CE-95-1096

OWNER G.R. RAIL SERVICES STREET OR RFD 147 CLARK ST. TOWN CHICAGO ILL 60601

WELL LOG table with columns: DESCRIPTION, FEET (FROM, TO), CHECK IF WATER BEARING. Rows include Yellow Brown Silty Clay, Brown Yellow Sand & Gravel, Gray + Red Brown Sand, Gray Clay.

GROUTING RECORD and CASING RECORD sections. Includes fields for material type (Cement, Bentonite Clay), grouting depth, casing type (Steel, Concrete, Plastic), and main casing details.

PUMPING TEST section. Includes fields for hours pumped, pumping rate, water level before and when pumping, and type of pump used.

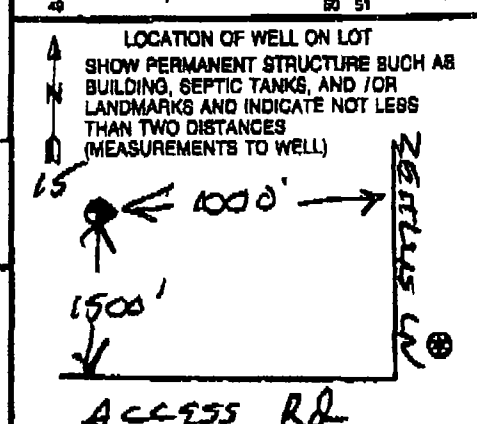
Table for OTHER CASING (if used) with columns for diameter and depth.

SCREEN RECORD section. Includes fields for screen type (Steel, Brass, Plastic, Open Hole) and slot size.

PUMP INSTALLED section. Includes fields for driller installed pump, pump capacity, pump horse power, and pump column length.

WELL HYDROFRACTURED section with Yes/No options and a list of letters A, E, P for well status.

DEPTH (nearest ft.) section with a depth scale from 1 to 61 feet.



DRILLER'S SIGNATURE section with fields for signature, license number, and site supervisor information.

MDE USE ONLY section with fields for well type (T, W, Q) and casing type (Telescope, Log Indicator, Other Data).

(THIS NUMBER IS TO BE PUNCHED IN COLS. 3-5 ON ALL CARDS) COUNTY NUMBER **GE RAIL 14** PERMIT NO. FROM "PERMIT TO DRILL WELL" **CE-95-1095**

DATE RECEIVED **10 23 05** DATE WELL COMPLETED **10 23 05** DEPTH OF WELL **38** (TO NEAREST FOOT) TOWN **CHICAGO IL 60601**

WELL LOG
Not required for driven wells

STATE THE KIND OF FORMATIONS PENETRATED, THEIR COLOR, DEPTH, THICKNESS AND IF WATER BEARING

DESCRIPTION (Use additional sheets if needed)	FEET		Check if water bearing
	FROM	TO	
Yellow Brown To Lt. Gray SANDY CLAY	0	12	
Reddish Yellow SAND + GRAVEL	12	28	
Brown Yellow CLAY	28	29	
Brown SAND	29	30	
Brown CLAY	30	32	
Lt. CLAY TO RED YELLOW SAND	32	37	✓
Brown TO GREEN SANDY CLAY	37	40	

GROUTING RECORD
WELL HAS BEEN GROUTED (Circle Appropriate Box) **Y** **N**

TYPE OF GROUTING MATERIAL (Circle one) **CM** **BC**

CEMENT **CM** BENTONITE CLAY **BC**

NO. OF BAGS **5** NO. OF POUNDS **25**

GALLONS OF WATER **15**

DEPTH OF GROUT SEAL (to nearest foot) from **0** ft. to **15** ft. (enter 0 if from surface)

CASING RECORD
casing types insert appropriate code below

ST STEEL **CO** CONCRETE **PL** PLASTIC **OT** OTHER

MAIN CASING PIPE **PL** **Z** **18**

Nominal diameter top (main) casing (nearest inch) **18** Total depth of main casing (nearest foot) **18**

C 3

PUMPING TEST

HOURS PUMPED (nearest hour) **8**

PUMPING RATE (gal. per min.) **11**

METHOD USED TO MEASURE PUMPING RATE _____

WATER LEVEL (distance from land surface) BEFORE PUMPING **17** ft. WHEN PUMPING **22** ft.

TYPE OF PUMP USED (for test)

A air **P** piston **T** turbine **C** centrifugal **R** rotary **O** other (describe below) **J** jet **S** submersible

NUMBER OF UNSUCCESSFUL WELLS: **0**

WELL HYDROFRACTURED **Y** **N**

CIRCLE APPROPRIATE LETTER

A A WELL WAS ABANDONED AND SEALED WHEN THIS WELL WAS COMPLETED

E ELECTRIC LOG OBTAINED

P TEST WELL CONVERTED TO PRODUCTION WELL

OTHER CASING (if used)
diameter inch depth (feet) from to

SCREEN RECORD
screen type or open hole (insert appropriate code below)

ST STEEL **BR** BRASS **HO** OPEN HOLE **PL** PLASTIC **OT** OTHER

PUMP INSTALLED

DRILLER INSTALLED PUMP (CIRCLE) (YES OR NO) **NO**

IF DRILLER INSTALLS PUMP, THIS SECTION MUST BE COMPLETED FOR ALL WELLS.

TYPE OF PUMP INSTALLED PLACE (A,C,J,P,R,S,T,O) IN BOX 29. **29**

CAPACITY: GALLONS PER MINUTE (to nearest gallon) **31** **36**

PUMP HORSE POWER **37** **41**

PUMP COLUMN LENGTH (nearest ft.) **43** **47**

CASING HEIGHT (circle appropriate box and enter casing height) **+** above **-** below

LAND SURFACE **0** (nearest foot)

I HEREBY CERTIFY THAT THIS WELL HAS BEEN CONSTRUCTED IN ACCORDANCE WITH COMAR 26.04.04 "WELL CONSTRUCTION" AND IN CONFORMANCE WITH ALL CONDITIONS STATED IN THE ABOVE CAPTIONED PERMIT, AND THAT THE INFORMATION PRESENTED HEREIN IS ACCURATE AND COMPLETE TO THE BEST OF MY KNOWLEDGE.

DRILLER'S SIGNATURE (MUST MATCH SIGNATURE ON APPLICATION) **Michael W. [Signature]**

LIC. NO. **D**

SITE SUPERVISOR (sign. of driller or journeyman responsible for sitework if different from permittee)

C 2

DEPTH (nearest ft.) **18** **38**

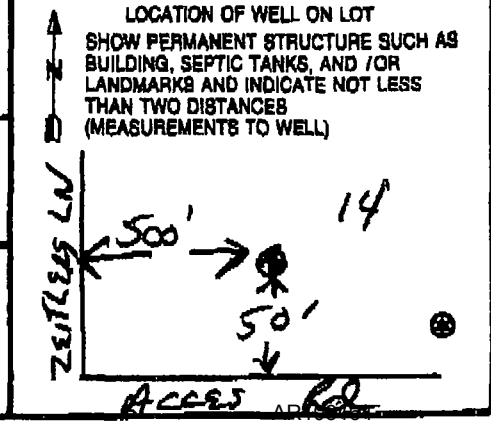
SLOT SIZE **10** **2** **3**

DIAMETER OF SCREEN **2** (NEAREST INCH) from **15** to **40**

GRAVEL PACK IF WELL DRILLED WAS FLOWING WELL INSERT F IN BOX 38

MODE USE ONLY (NOT TO BE FILLED IN BY DRILLER) (E.R.O.S.) **W** **Q**

TELESCOPE CASING LOG INDICATOR OTHER DATA



C1 2994

SEQUENCE NO. (MODE USE ONLY)

STATE OF MARYLAND WELL COMPLETION REPORT

THIS REPORT MUST BE SUBMITTED WITHIN 45 DAYS AFTER WELL IS COMPLETED.

(THIS NUMBER IS TO BE PUNCHED IN COLS. 3-8 ON ALL CARDS)

COUNTY NUMBER GERALD 13

DATE RECEIVED MM 09 DD 21 YY 05

DATE WELL COMPLETED

DEPTH OF WELL 39 (TO NEAREST FOOT)

PERMIT NO. FROM "PERMIT TO DRILL WELL" CE 95-1094

OWNER G E RAIL SERVICES STREET OR RFD 187 CLARK STREET TOWN CHICAGO IL 60601

WELL LOG

Not required for driven wells

STATE THE KIND OF FORMATIONS PENETRATED, THEIR COLOR, DEPTH, THICKNESS AND IF WATER BEARING

Table with columns: DESCRIPTION, FEET (FROM, TO), and CHECK IF WATER BEARING. Rows include Yellow Brown SILTY CLAY, Yellow Brown SAND AND GRAVEL, Yellow Brown SANDY CLAY, Yellow Brown TO LIGHT GRAY SAND GRAVEL, and Green SANDY CLAY.

GROUTING RECORD

WELL HAS BEEN GROUTED (Circle Appropriate Box) TYPE OF GROUTING MATERIAL (Circle one) CEMENT CM BENTONITE CLAY BC

CASING RECORD

MAIN CASING TYPE PL Nominal diameter top (main) casing (nearest inch) 2 Total depth of main casing (nearest foot) 19

OTHER CASING (if used) diameter inch depth (feet) from to

SCREEN RECORD

screen type or open hole (insert appropriate code below) ST BR HO PL OT

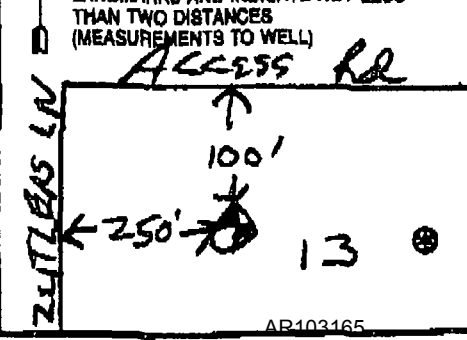
PUMPING TEST

HOURS PUMPED (nearest hour) PUMPING RATE (gal. per min.) METHOD USED TO MEASURE PUMPING RATE WATER LEVEL (distance from land surface) BEFORE PUMPING WHEN PUMPING TYPE OF PUMP USED (for least)

PUMP INSTALLED

DRILLER INSTALLED PUMP (CIRCLE) (YES or NO) IF DRILLER INSTALLS PUMP, THIS SECTION MUST BE COMPLETED FOR ALL WELLS. TYPE OF PUMP INSTALLED PLACE (A,C,J,P,R,S,T,O) IN BOX 29. CAPACITY: GALLONS PER MINUTE (to nearest gallon) PUMP HORSE POWER PUMP COLUMN LENGTH (nearest ft.) CASING HEIGHT (circle appropriate box and enter casing height)

LOCATION OF WELL ON LOT



NUMBER OF UNSUCCESSFUL WELLS: 0 WELL HYDROFRACTURED Y N

CIRCLE APPROPRIATE LETTER A A WELL WAS ABANDONED AND SEALED WHEN THIS WELL WAS COMPLETED E ELECTRIC LOG OBTAINED P TEST WELL CONVERTED TO PRODUCTION WELL

I HEREBY CERTIFY THAT THIS WELL HAS BEEN CONSTRUCTED IN ACCORDANCE WITH COMAR 26.04.01 "WELL CONSTRUCTION" AND IN CONFORMANCE WITH ALL CONDITIONS STATED IN THE ABOVE CAPTIONED PERMIT, AND THAT THE INFORMATION PRESENTED HEREIN IS ACCURATE AND COMPLETE TO THE BEST OF MY KNOWLEDGE.

DRILLERS LIC. NO. MND 336 DRILLER SIGNATURE (MUST MATCH SIGNATURE ON APPLICATION) LIC. NO. D

SITE SUPERVISOR (sign. of driller or journeyman responsible for sitework if different from permittee)

DEPTH (nearest ft.) PL 19 39

SLOT SIZE 1 2 3 DIAMETER OF SCREEN 2 (NEAREST INCH) from 15 to 39

GRAVEL PACK IF WELL DRILLED WAS FLOWING WELL (INSERT P IN BOX 68)

MODE USE ONLY (NOT TO BE FILLED IN BY DRILLER) TELESCOPE CASING LOG INDICATOR OTHER DATA

C1 2993

SEQUENCE NO. (MDE USE ONLY)

STATE OF MARYLAND WELL COMPLETION REPORT

THIS REPORT MUST BE SUBMITTED WITHIN 45 DAYS AFTER WELL IS COMPLETED.

COUNTY NUMBER GE KAIL 12

(THIS NUMBER IS TO BE PUNCHED IN COLS. 3-8 ON ALL CARDS)

ST/CO USE ONLY DATE RECEIVED

DATE WELL COMPLETED 09 22 05

Depth of Well 38 (TO NEAREST FOOT)

PERMIT NO. CE-95-1093

OWNER G E RAIL SERVICES STREET OR RFD 141 CLARK STREET TOWN CHICAGO IL 60601

WELL LOG

Not required for driven wells

STATE THE KIND OF FORMATIONS PENETRATED, THEIR COLOR, DEPTH, THICKNESS AND IF WATER BEARING

Table with columns: DESCRIPTION, FEET (FROM, TO), check if water bearing. Rows include Yellow Brown Silty SANDY CLAY, Yellow Brown SAND + GRAVEL, Yellow Brown SANDY CLAY WITH SAND STRIPS, BROWN GREEN SAND, GREEN SANDY CLAY.

GROUTING RECORD

WELL HAS BEEN GROUTED (Y) (N) TYPE OF GROUTING MATERIAL (C) (B) CEMENT (C) BENTONITE CLAY (B) NO. OF BAGS 5 NO. OF POUNDS 250 GALLONS OF WATER 15 DEPTH OF GROUT SEAL (to nearest foot) from 0 to 15

CASING RECORD

MAIN CASING TYPE PL Nominal diameter top (main) casing (nearest inch) 2 Total depth of main casing (nearest foot) 18

OTHER CASING (if used) diameter inch depth (feet) from to

SCREEN RECORD screen type or open hole (ST) (BR) (HO) (PL) (OT)

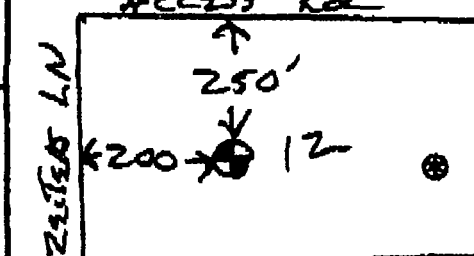
PUMPING TEST

HOURS PUMPED (nearest hour) 0 PUMPING RATE (gal. per min.) 11 METHOD USED TO MEASURE PUMPING RATE WATER LEVEL (distance from land surface) BEFORE PUMPING 19 ft WHEN PUMPING 28 ft TYPE OF PUMP USED (for test) A air P piston T turbine C centrifugal R rotary O other J jet S submersible

PUMP INSTALLED

DRILLER INSTALLED PUMP (YES) (NO) IF DRILLER INSTALLS PUMP, THIS SECTION MUST BE COMPLETED FOR ALL WELLS. TYPE OF PUMP INSTALLED PLACE (A,C,J,P,R,S,T,O) IN BOX 29. CAPACITY: GALLONS PER MINUTE (to nearest gallon) 31 PUMP HORSE POWER 37 PUMP COLUMN LENGTH (nearest ft.) 47 CASING HEIGHT (circle appropriate box and enter casing height) + above - below LAND SURFACE 2 (nearest foot)

LOCATION OF WELL ON LOT SHOW PERMANENT STRUCTURE SUCH AS BUILDING, SEPTIC TANKS, AND /OR LANDMARKS AND INDICATE NOT LESS THAN TWO DISTANCES (MEASUREMENTS TO WELL)



NUMBER OF UNSUCCESSFUL WELLS: 0 WELL HYDROFRACTURED (Y) (N)

CIRCLE APPROPRIATE LETTER A A WELL WAS ABANDONED AND SEALED WHEN THIS WELL WAS COMPLETED E ELECTRIC LOG OBTAINED P TEST WELL CONVERTED TO PRODUCTION WELL

I HEREBY CERTIFY THAT THIS WELL HAS BEEN CONSTRUCTED IN ACCORDANCE WITH COMAR 26.04.04 "WELL CONSTRUCTION" AND IN CONFORMANCE WITH ALL CONDITIONS STATED IN THE ABOVE CAPTIONED PERMIT...

DRILLERS LIC. NO. 3361 DRILLER'S SIGNATURE (MUST MATCH SIGNATURE ON APPLICATION) LIC. NO. 1 D

SITE SUPERVISOR (sign. of driller or journeyman responsible for sitework if different from permittee)

Table with columns: DEPTH (nearest ft.), 8, 9, 11, 15, 17, 21, 24, 26, 30, 32, 36, 38, 41, 45, 47, 51. Includes slot size and diameter of screen information.

GRAVEL PACK IF WELL DRILLED WAS FLOWING WELL INSERT F IN BOX 60 MDE USE ONLY (NOT TO BE FILLED IN BY DRILLER) T (E.R.O.S.) W Q

TELESCOPE CASING LOG INDICATOR OTHER DATA

C1 2992

SEQUENCE NO. (MDE USE ONLY)

STATE OF MARYLAND WELL COMPLETION REPORT FILL IN THIS FORM COMPLETELY PLEASE TYPE

THIS REPORT MUST BE SUBMITTED WITHIN 45 DAYS AFTER WELL IS COMPLETED.

COUNTY NUMBER GERALD II

(THIS NUMBER IS TO BE PUNCHED IN COLS. 3-6 ON ALL CARDS)

DATE RECEIVED

DATE WELL COMPLETED

Depth of Well

PERMIT NO. FROM "PERMIT TO DRILL WELL" CR-95-1092

OWNER GERALD SERVICES STREET OR RFD 197 N. CLARK STREET TOWN CHICAGO IL 60601 SUBDIVISION SECTION LOT

WELL LOG Not required for driven wells

STATE THE KIND OF FORMATIONS PENETRATED, THEIR COLOR, DEPTH, THICKNESS AND IF WATER BEARING

Table with columns: DESCRIPTION, FEET (FROM, TO), Check if water bearing. Rows include Yellow Gray Silty Clay, Gray to Brown Sand with Clay, Yellow Sand Clay, Yellow Brown Sand with Clayey Sand Layers, Brown Green Sand Clay.

GROUTING RECORD

WELL HAS BEEN GROUTED (Circle Appropriate Box) YES [X] NO [] TYPE OF GROUTING MATERIAL (Circle one) CEMENT [X] BENTONITE CLAY [] NO. OF BAGS 5 NO. OF POUNDS 250 GALLONS OF WATER 15 DEPTH OF GROUT SEAL (to nearest foot) from 0 to 14 ft.

CASING RECORD casing types insert appropriate code below ST STEEL CIO CONCRETE PL PLASTIC OIT OTHER MAIN CASING TYPE PL Nominal diameter top (main) casing (nearest inch) 2 Total depth of main casing (nearest foot) 17

OTHER CASING (if used) diameter inch depth (feet) from to

SCREEN RECORD screen type or open hole insert appropriate code below ST STEEL BR BRASS PL PLASTIC HO OPEN HOLE OIT OTHER

NUMBER OF UNSUCCESSFUL WELLS: 0 WELL HYDROFRACTURED YES [X] NO []

CIRCLE APPROPRIATE LETTER A WELL WAS ABANDONED AND SEALED WHEN THIS WELL WAS COMPLETED E ELECTRIC LOG OBTAINED P TEST WELL CONVERTED TO PRODUCTION WELL

I HEREBY CERTIFY THAT THIS WELL HAS BEEN CONSTRUCTED IN ACCORDANCE WITH COMAR 26.04.04 "WELL CONSTRUCTION" AND IN CONFORMANCE WITH ALL CONDITIONS STATED IN THE ABOVE CAPTIONED PERMIT, AND THAT THE INFORMATION PRESENTED HEREIN IS ACCURATE AND COMPLETE TO THE BEST OF MY KNOWLEDGE.

DRILLERS LIC. NO. MVD 336 Miller, D. LIC. NO. D

SITE SUPERVISOR (sign. of driller or journeyman responsible for sitework if different from permittee)

DEPTH (nearest ft.) PL 17 37

SLOT SIZE 1 1/2 2 3 DIAMETER OF SCREEN 2 (NEAREST INCH) from 14 to 37

GRAVEL PACK IF WELL DRILLED WAS FLOWING WELL INSERT F IN BOX 68

MDE USE ONLY (NOT TO BE FILLED IN BY DRILLER) T (E.R.O.S.) W G TELESCOPE CASING LOG INDICATOR OTHER DATA

PUMPING TEST

HOURS PUMPED (nearest hour) PUMPING RATE (gal. per min.) METHOD USED TO MEASURE PUMPING RATE WATER LEVEL (distance from land surface) BEFORE PUMPING WHEN PUMPING TYPE OF PUMP USED (for test) A air P piston T turbine C centrifugal R rotary O other (describe below) J jet S submersible

PUMP INSTALLED DRILLER INSTALLED PUMP (CIRCLE) (YES OR NO) YES [X]

IF DRILLER INSTALLS PUMP, THIS SECTION MUST BE COMPLETED FOR ALL WELLS.

TYPE OF PUMP INSTALLED PLACE (A,C,J,P,R,S,T,O) IN BOX 29.

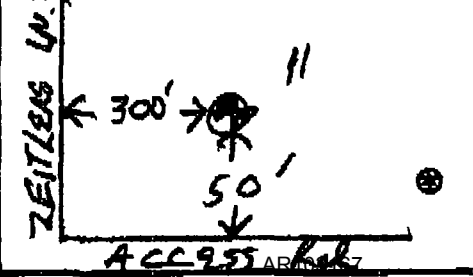
CAPACITY: GALLONS PER MINUTE (to nearest gallon)

PUMP HORSE POWER

PUMP COLUMN LENGTH (nearest ft.)

CASING HEIGHT (circle appropriate box and enter casing height) + above - below LAND SURFACE (nearest foot)

LOCATION OF WELL ON LOT SHOW PERMANENT STRUCTURE SUCH AS BUILDING, SEPTIC TANKS, AND /OR LANDMARKS AND INDICATE NOT LESS THAN TWO DISTANCES (MEASUREMENTS TO WELL)



Rosengarten, Smith & Associates, Inc.

GE Railcar, Elkton, MD
RSA Project No. 2017-19

Off-Site Investigation Report
April 25, 2006

APPENDIX 3
PURGE/SAMPLING FORMS

PURGING/SAMPLING INFORMATION FORM

GENERAL INFORMATION

Site Eikton, MD GERS Purging/Sampling Point ID (Well No.) MW-1 Project No. 2017
 General Wellhead Condition Good Top of Casing Elev (msl) re 58.51 ft. Weather 55° F, mostly sunny

FLUID LEVEL/WELL DEPTH MEASUREMENTS

Static Water Level (ft btoc) 19.25 TD (ft btoc) 29.77 Previous TD (ft btoc) 29.79 Static Water Level Elev. (msl) re 39.26 ft.
 Sediment Thickness NA ft. Sediment Description NA Sediment Removal Method NA Obstructed: Yes / (No)
 Top of Screen (ft btoc) 19.27 Screen Length 10 (ft.) x 0.10 1.0 maximum drawdown during micropurging = 20.25
 Measured By MRW Well Headspace Reading (ppm) or (%) 0 Date/Time 10.26.05

PURGE DATA

Macro Volume Calculations

Well TD _____ - Static Water Level _____ = Water Column _____ ft. x 0.17 (2 in.) or 0.66 (4 in.) _____ x 3 _____ gallons or _____ x 5 _____ gallons

Micro Volume Calculation

Well TD 29.77 - Static Water Level 19.25 = Water Column 10.52 ft. x 0.00118 = 0.01241 gallons x 3.785 0.04699 liters to remove prior to first parameter measurement
= 46.99 mL

	Date	Start Time	Stop Time	Volume (mL) MW (Gallons/Liters)	Specific Conductance (mS/cm)	Dissolved Oxygen/Redox	Temperature (C/F)	Turbidity / pH / Color / Odor
Purge Volume 1	10.29.05	1607		0	0.494	1.64 / -192	12.74	1.55 / 6.19 / clear / none
Purge Volume 2		1609		600	0.493	1.44 / -196	12.77	1.27 / 6.22 /
Purge Volume 3		1611		1200	0.493	1.39 / -197	12.79	2.47 / 6.18
Purge Volume 4		1613		1800	0.493	1.36 / -195	12.84	1.19 / 6.21
Purge Volume 5		1615		2400	0.493	1.34 / -195	12.83	1.12 / 6.20
Purge Volume 6		1617		3000	0.492	1.32 / -192	12.73	1.21 / 6.20
Purge Volume 7								
Purge Volume 8								
Purge Volume 9								
Total Volume								

SAMPLING DATA

Sample ID No. MW-1 Date/Time 10.29.05 / 1620 Sampled By MRW Method low flow Preservative HCl Filtered: yes / (no)

FIELD PARAMETERS (After Sample Collection)

Time 1625 Temperature 12.75 (°C) (°F) Specific Conductance 0.492 (mS/cm) (µmhos/cm) pH 6.19 (std units)

PURGING/SAMPLING INFORMATION FORM

GENERAL INFORMATION

Site Elkton, MD GERRS Purging/Sampling Point ID (Well No.) MW-2 Project No. 2017
 General Wellhead Condition Poor - concrete cracked Top of Casing Elev. (msl) re 58.47 ft. Weather ~55° F, partly cloudy

FLUID LEVEL/WELL DEPTH MEASUREMENTS

Static Water Level (ft btoc) 19.33 TD (ft btoc) 29.75 Previous TD (ft btoc) 29.76 Static Water Level Elev. (msl) re 39.14 ft.
 Sediment Thickness NA ft. Sediment Description NA Sediment Removal Method NA Obstructed: Yes (No) (No)
 Top of Screen (ft btoc) 19.25 Screen Length 10.42 (ft.) x 0.10 1.04 maximum drawdown during micropurging = 20.37 ft BTOC
 Measured By MRW H₂O column Well Headspace Reading (ppm or %) ∅ Date/Time 10.26.05

PURGE DATA

Macro Volume Calculations

Well TD _____ - Static Water Level _____ = Water Column _____ ft. x 0.17 (2 in.) or 0.66 (4 in.) _____ x 3 _____ gallons or _____ x 5 _____ gallons

Micro Volume Calculation

Well TD 29.75 - Static Water Level 19.33 = Water Column 10.42 ft. x 0.00118 = 0.01230 gallons x 3.785 0.04654 liters to remove prior to first parameter measurement
= 46.54 mL

Date	Start Time	Stop Time	Volume (mL) (Gallons/Liters)	Specific Conductance (µS/cm)	Dissolved Oxygen/Redox	Temperature (°C/°F)	Turbidity (pH/Color/ Odor)
10-28-05	1624		∅	0.399	0.52/-246	13.26	25.7/6.90/clear/slight
	1626		800	0.387	0.37/-257	13.21	22.6/6.84/
	1628		1600	0.382	0.33/-268	13.22	18.8/6.85
	1630		2400	0.374	0.29/-277	13.21	17.7/6.80
	1632		3200	0.365	0.25/-281	13.27	14.6/6.82
	1634		4000	0.360	0.22/-292	13.27	14.03/6.81
	1636		4800	0.353	0.22/-290	13.25	13.04/6.80
	1638		5600	0.350	0.20/-291	13.26	12.09/6.78
	1640		6400	0.344	0.19/-296	13.32	11.83/6.78
	1642		7200	0.342	0.18/-299	13.29	11.70/6.72

SAMPLING DATA

Sample ID No. MW2 Date/Time 10.28.05/1645 Sampled By MRW Method low flow Preservative HCl Filtered: yes (no) (no)

FIELD PARAMETERS (After Sample Collection)

Time 1650 Temperature 13.30 (°C) (°F) Specific Conductance 0.336 (µmhos/cm) (ms/cm) pH 6.69 (std units)

PURGING/SAMPLING INFORMATION FORM

GENERAL INFORMATION

Site Eikton, MD - GERRS Purging/Sampling Point ID (Well No.) MW-3 Project No. 2017
 General Wellhead Condition Good Top of Casing Elev. (msl/re) 59.89 ft. Weather ~60°F, mostly sunny

FLUID LEVEL/WELL DEPTH MEASUREMENTS

Static Water Level (ft btoc) 19.83 TD (ft btoc) 26.46 Previous TD (ft btoc) 26.44 Static Water Level Elev. (msl/re) 40.06 ft.
 Sediment Thickness NA ft. Sediment Description NA Sediment Removal Method NA Obstructed: Yes / No
 Top of Screen (ft btoc) 16.96 ^{MW} 15.96 Screen Length 10 ^{MW} 6.63(ft.) x 0.10 0.66 maximum drawdown during micropurging = 20.49
 Measured By MRW ^{H₂O column} Well Headspace Reading (ppm) or % ✓ Date/Time 10-26-05

PURGE DATA

Macro Volume Calculations

Well TD _____ - Static Water Level _____ = Water Column _____ ft. x 0.17 (2 in.) or 0.66 (4 in.) _____ x 3 _____ gallons or _____ x 5 _____ gallons

Micro Volume Calculation

Well TD 26.46 - Static Water Level 19.83 = Water Column 6.63 ft. x 0.00118 = 0.007823 gallons x 3.785 ^{MW} 0.02961 ~~liters~~ = 29.61 mL liters to remove prior to first parameter measurement

	Date	Start Time	Stop Time	^{MW} Volume (mL) (Gallons/Liters)	Specific Conductance (mS/cm)	Dissolved Oxygen/Redox	Temperature (C/F)	Turbidity /pH/Color/ Odor
Purge Volume 1	10-29-05	1434		0	0.276	0.41/-252	14.38	16.60/5.88/clear/slight
Purge Volume 2		1436		500	0.275	0.34/-258	14.37	8.57/5.83/
Purge Volume 3		1438		1000	0.274	0.31/-264	14.36	7.81/5.90
Purge Volume 4		1440		1500	0.273	0.27/-267	14.24	7.07/5.94
Purge Volume 5		1442		2000	0.273	0.23/-274	14.30	6.68/5.92
Purge Volume 6		1444		2500	0.273	0.23/-277	14.28	6.39/5.91
Purge Volume 7		1446		3000	0.273	0.22/-284	14.32	6.14/5.88
Purge Volume 8								
Purge Volume 9								
Total Volume								

SAMPLING DATA

Sample ID No. MW-3 Date/Time 10-29-05/1450 Sampled By MRW Method low flow Preservative HCl Filtered: yes / No

FIELD PARAMETERS (After Sample Collection)

Time 1453 Temperature 14.32 (C/F) Specific Conductance 0.274 (mS/cm) (µmhos/cm) pH 5.88 (std units)

MRW

PURGING/SAMPLING INFORMATION FORM

GENERAL INFORMATION

Site Elkton, MD - GERAS Purging/Sampling Point ID (Well No.) MW-4 Project No. 2017
 General Wellhead Condition Poor - cracked concrete Top of Casing Elev. (msl) (ft) 66.35 ft. Weather 65°F, mostly sunny

FLUID LEVEL/WELL DEPTH MEASUREMENTS

Static Water Level (ft btoc) 21.76 TD (ft btoc) 31.36 Previous TD (ft btoc) 31.35 Static Water Level Elev. (msl) (ft) 44.59 ft.
 Sediment Thickness NA ft. Sediment Description NA Sediment Removal Method NA Obstructed: Yes / No
 Top of Screen (ft btoc) 20.86 Screen Length 10 (ft.) x 0.10 1.0 maximum drawdown during micropurging = 22.76 ft BTOC
 Measured By MRW Well Headspace Reading (ppm or %) 0 Date/Time 10-26-05

PURGE DATA

Macro Volume Calculations

Well TD _____ - Static Water Level _____ = Water Column _____ ft. x 0.17 (2 in.) or 0.66 (4 in.) _____ x 3 _____ gallons or _____ x 5 _____ gallons

Micro Volume Calculation

Well TD 31.36 - Static Water Level 21.76 = Water Column 9.6 ft. x 0.00118 = 0.01133 gallons x 3.785 = 0.04288 liters to remove prior to first parameter measurement = 42.88 mL

Date	Start Time	Stop Time	Volume (Gallons/liters)	Specific Conductance (ms/cm)	Dissolved Oxygen/Redox	Temperature (°C/°F)	Turbidity /pH/Color/ Odor
			<u>0</u>	<u>0.474</u>	<u>0.76/-178</u>	<u>13.84</u>	<u>3.96/6.17/clear/slight</u>
		<u>1335</u>	<u>400</u>	<u>0.473</u>	<u>0.54/-184</u>	<u>13.78</u>	<u>3.75/6.18</u>
		<u>1338</u>	<u>800</u>	<u>0.472</u>	<u>0.44/-189</u>	<u>13.76</u>	<u>2.23-75/6.17</u>
		<u>1340</u>	<u>1200</u>	<u>0.472</u>	<u>0.40/-206</u>	<u>13.78</u>	<u>2.39/6.27</u>
		<u>1342</u>	<u>1600</u>	<u>0.472</u>	<u>0.36/-219</u>	<u>13.75</u>	<u>2.48/6.26</u>
		<u>1344</u>	<u>2000</u>	<u>0.472</u>	<u>0.31/-222</u>	<u>13.70</u>	<u>2.49/6.26</u>
		<u>1346</u>	<u>2400</u>	<u>0.471</u>	<u>0.30/-224</u>	<u>13.69</u>	<u>2.19/6.24</u>
		<u>1348</u>	<u>2800</u>	<u>0.472</u>	<u>0.29/-232</u>	<u>13.72</u>	<u>3.90/6.25</u>

SAMPLING DATA

Sample ID No. MW-4 Date/Time 11-1-05/1353 Sampled By MRW Method low flow Preservative HCl Filtered: yes / no

FIELD PARAMETERS (After Sample Collection)

Time 1358 Temperature 13.70 (°C) (°F) Specific Conductance 0.472 (ms/cm) pH 6.25 (std units)

PURGING/SAMPLING INFORMATION FORM

GENERAL INFORMATION

Site ELKTON, MD - GERRS Purging/Sampling Point ID (Well No.) MW-5 Project No. 2017
 General Wellhead Condition Good Top of Casing Elev. (msl/re) 68.38 ft. Weather 55°F, partly cloudy

FLUID LEVEL/WELL DEPTH MEASUREMENTS

Static Water Level (ft btoc) 23.50 TD (ft btoc) 34.14 Previous TD (ft btoc) 34.14 Static Water Level Elev. (msl/re) 44.88 ft.
 Sediment Thickness NA ft. Sediment Description NA Sediment Removal Method NA Obstructed: Yes / No
 Top of Screen (ft btoc) 23.64 Screen Length 10.64 (ft.) x 0.10 1.06 maximum drawdown during micropurging = 24.56 ft BToc
 Measured By MRW Well Headspace Reading (ppm or %) 0 Date/Time 10.26.05

PURGE DATA

Macro Volume Calculations

Well TD _____ - Static Water Level _____ = Water Column _____ ft. x 0.17 (2 in.) or 0.66 (4 in.) _____ x 3 _____ gallons or _____ x 5 _____ gallons

Micro Volume Calculation

Well TD 34.14 - Static Water Level 23.50 = Water Column 10.64 ft. x 0.00118 = 0.01256 gallons x 3.785 0.04752 liters to remove prior to first parameter measurement
 = 47.52 mL

	Date	Start Time	Stop Time	Volume (mL) (Gallons/Liters)	Specific Conductance ($\mu\text{S}/\text{cm}$)	Dissolved Oxygen/ Redox	Temperature ($^{\circ}\text{C}/^{\circ}\text{F}$)	Turbidity /pH/Color/ Odor
Purge Volume 1	11.05/1708			0	0.593	3.83/-110	13.44	5.50/7.03/clear/none
Purge Volume 2		1710		100	0.594	3.65/-111	13.37	4.30/7.03/
Purge Volume 3		1712		200	0.597	3.56/-113	13.30	4.43/7.02
Purge Volume 4		1714		300	0.599	3.35/-113	13.18	6.74/7.02
Purge Volume 5		1716		400	0.598	3.37/-113	13.15	4.88/7.02
Purge Volume 6		1718		500	0.598	3.34/-117	13.11	7.07
Purge Volume 7		1720		600	0.599	3.32/-115	13.08	7.11
Purge Volume 8		1722		700	0.596	3.34/-117	13.06	4.82/7.12
Purge Volume 9		1724		800	0.597	3.31/-116	13.05	5.02/7.11
Total Volume								

SAMPLING DATA

Sample ID No. MW-5 Date/Time 11.05/1731 Sampled By MRW Method low flow Preservative Hel Filtered: yes (no)

FIELD PARAMETERS (After Sample Collection)

Time 1744 Temperature 12.74 ($^{\circ}\text{C}/^{\circ}\text{F}$) Specific Conductance 0.597 ($\mu\text{S}/\text{cm}$) pH 7.12 (std units)

PURGING/SAMPLING INFORMATION FORM

GENERAL INFORMATION

Site GERALDAR ELK Purging/Sampling Point ID (Well No.) MW-6 Project No. 201719
 General Wellhead Condition S.W. good Top of Casing Elev. (msl / re) _____ ft. Weather _____

FLUID LEVEL/WELL DEPTH MEASUREMENTS

Static Water Level (ft btoc) 28.78 TD (ft btoc) 39.35 Previous TD (ft btoc) 39.35 Static Water Level Elev. (msl / re) _____ ft.
 Sediment Thickness _____ ft. Sediment Description _____ Sediment Removal Method _____ Obstructed: Yes No
 Top of Screen (ft btoc) _____ Screen Length _____ (ft.) x 0.10 _____ maximum drawdown during micropurging
 Measured By Eline Well Headspace Reading (ppm or %) 1.0 ppm Date/Time 10/25/05

PURGE DATA

Macro Volume Calculations

Well TD _____ - Static Water Level _____ = Water Column _____ ft. x 0.17 (2 in.) or 0.66 (4 in.) _____ x 3 _____ gallons or _____ x 5 _____ gallons

Micro Volume Calculation

Well TD 39.25 - Static Water Level 28.78 = Water Column 10.47 ft. x 0.00118 = 0.0123 gallons x 3.785 = 0.0713 liters to remove prior to first parameter measurement

12.37 PSI + 10 set 25

Purge Volume	Date	Start Time	Stop Time	Volume (Gallons/Liters)	Specific Conductance (ms/cm)	Dissolved Oxygen/Redox (%)	Temperature (°C/°F)	Turbidity / pH/Color/ Odor
Purge Volume 1	11/2/05	1619	1622-1623	0.2	19.5	8.44 / 369	13.4	36.1 / 4.32 / clear / NO
Purge Volume 2			1624	.4	19.6	7.77 / 390	13.3	32.8 / 4.16 / " / "
Purge Volume 3			1625	.6	19.7	7.35 / 406	13.1	34.4 / 4.04 / " / "
Purge Volume 4			1626	.85	19.7	6.95 / 407	13.0	33.9 / 3.95 / " / "
Purge Volume 5			1627	1.00	19.8	6.71 / 415	13.0	33.2 / 3.95 / " / "
Purge Volume 6			1628	1.20	19.9	6.45 / 423	13.0	34.4 / 3.87 / " / "
Purge Volume 7			1629	1.35	19.8	6.28 / 432	13.0	40.1 / 3.83 / " / "
Purge Volume 8			1630	1.50	20.0	6.00 / 433	13.0	34.4 / 3.78 / " / "
Purge Volume 9			1631	1.65	20.0	5.93 / 435	13.0	37.4 / 3.73 / " / "
Total Volume			16.52	1.80	20.1	5.88 / 436	13.0	40.4 / 3.71 / " / "
			1633	1.95	20.1	5.88 / 438	13.0	32.5 / 3.70 / clear / NO

28.78 @ 0.15 ft/min

SAMPLING DATA

Sample ID No. MW-6 Date/Time 11/2/05 1636 Sampled By Chonteo Method micro purge Preservative HCL Filtered: yes / no

FIELD PARAMETERS (After Sample Collection)

Time 1640 Temperature 13.1 (°C) (°F) Specific Conductance 20.2 (µmhos/cm) pH 3.73 (std units)

PURGING/SAMPLING INFORMATION FORM

GENERAL INFORMATION

Site GPDALOG Elkton Purging/Sampling Point ID (Well No.) MW-7 Project No. 2017A9
 General Wellhead Condition S.W. good Top of Casing Elev. (msl / re) _____ ft. Weather clear, windy
~60% of

FLUID LEVEL/WELL DEPTH MEASUREMENTS

Static Water Level (ft btoc) 32.14 TD (ft btoc) 40.69 Previous TD (ft btoc) 40.67 Static Water Level Elev. (msl / re) _____ ft.
 Sediment Thickness _____ ft. Sediment Description _____ Sediment Removal Method _____ Obstructed: Yes / No
 Top of Screen (ft btoc) _____ Screen Length 10 (ft.) x 0.10 1 maximum drawdown during micropurging
 Measured By E. Fine Well Headspace Reading (ppm or %) 0 ppm Date/Time 10/25/05

PURGE DATA

$32.14 \times 4.13 = 13.82 \text{ psi} \xrightarrow{\text{sat}} +20 \text{ } 35$

Macro Volume Calculations

Well TD _____ - Static Water Level _____ = Water Column _____ ft. x 0.17 (2 in.) or 0.66 (4 in.) _____ x 3 _____ gallons or _____ x 5 _____ gallons

Micro Volume Calculation

Well TD 40.69 - Static Water Level 32.14 = Water Column 8.55 ft. x 0.00118 = 0.01539 gallons x 3.785 = 0.05825 liters to remove prior to first parameter measurement

Purge Volume	Date	Start Time	Stop Time	Volume (Gallons/liters)	Specific Conductance $\frac{\mu S}{cm}$	Dissolved Oxygen/Redox	Temperature (°F)	Turbidity /pH/Color/ Odor			
Purge Volume 1	11/2/05	1251	1255	0.2	23.6	7.89	13.4	76.0	4.65	21.9	110
Purge Volume 2			1256	0.4	23.6	7.02	13.2	62.6	4.76	"	"
Purge Volume 3			1257	0.65	23.6	6.44	13.2	60.9	4.43	"	"
Purge Volume 4			1258	0.825	23.8	6.09	13.4	60.5	4.40	"	"
Purge Volume 5			1300	0.950	23.9	5.86	13.4	55.0	4.37	"	"
Purge Volume 6			1301	1.075	23.9	5.68	13.5	56.9	4.31	clear	"
Purge Volume 7			1302	1.2	24.3	5.62	13.4	55.3	4.29	clear	"
Purge Volume 8			1303	1.325	24.1	5.45	13.5	56.0	4.22	clear	"
Purge Volume 9			1304	1.45	24.1	5.29	13.5	49.4	4.19	"	"
Total Volume			1305	1.575	24.2	5.21	13.4	42.2	4.15		
			1306	1.70	24.2	5.05	13.4	44.0	4.10		

SAMPLING DATA

Sample ID No. MW-7 Date/Time 1310 Sampled By C. Minter Method Micro purge Preservative HCL Filtered: yes / no
 *collected MS & MSD 60th sample (well & equip blanks)

FIELD PARAMETERS (After Sample Collection)

Time 1325 Temperature 13.4 (°F) Specific Conductance 24.1 $\frac{\mu S}{cm}$ (µmhos/cm) pH 4.73 (std units)

*drawdown to 432.19 @ 0.125 l/min
 Rosengarten, Smith & Associates, Inc.

PURGING/SAMPLING INFORMATION FORM

8.17 psi + 10

GENERAL INFORMATION

Site GRAVELLY ELKTON Purging/Sampling Point ID (Well No.) MW-08 Project No. 2012-19
 General Wellhead Condition _____ Top of Casing Elev. (msl / re) _____ ft. Weather cool windy clear
 ~50°F

FLUID LEVEL/WELL DEPTH MEASUREMENTS

Static Water Level (ft btoc) 19.34 TD (ft btoc) 22.37 Previous TD (ft btoc) 22.86 Static Water Level Elev. (msl / re) _____ ft.
 Sediment Thickness _____ ft. Sediment Description _____ Sediment Removal Method _____ Obstructed: Yes / No
 Top of Screen (ft btoc) _____ Screen Length 10 (ft.) x 0.10 1.0 maximum drawdown during micropurging
 Measured By C. [unclear] Well Headspace Reading (ppm or %) 0.0 ppm Date/Time 10/25/05

PURGE DATA

Macro Volume Calculations

Well TD _____ - Static Water Level _____ = Water Column _____ ft. x 0.17 (2 in.) or 0.66 (4 in.) _____ x 3 _____ gallons or _____ x 5 _____ gallons

Micro Volume Calculation

Well TD 22.37 - Static Water Level 19.34 = Water Column 3.03 ft. x 0.00118 = 0.005454 gallons x 3.785 = 0.02064 liters to remove prior to first parameter measurement

Purge Volume	Date	Start Time	Stop Time	Volume (Gallons/liters)	Specific Conductance	Dissolved Oxygen/Redox	Temperature (C/F)	Turbidity /pH/Color/ Odor
Purge Volume 1	11/2/05	0932	0935	0.15	23.4	9.84 450	14.3	78.4 4.08 511 cloudy NO
Purge Volume 2		0937	0938	0.25	23.4	9.18 450	14.3	83.0 4.11 " "
Purge Volume 3		0938	0939	0.40	23.0	8.63 450	14.2	75.5 4.14 " "
Purge Volume 4		0940	0941	0.525	22.4	8.09 451	14.1	60.5 4.17 " "
Purge Volume 5		0941	0942	0.650	22.4	7.95 452	14.1	59.1 4.19 " "
Purge Volume 6		0942	0943	0.80	22.1	7.80 452	14.1	52.3 4.20 clear "
Purge Volume 7		0943	0944	0.95	22.1	7.62 453	14.1	50.9 4.22 " "
Purge Volume 8		0944	0945	1.05	21.9	7.51 454	14.0	42.4 4.24 " "
Purge Volume 9		0945		1.175	21.8	7.37 454	14.0	48.8 4.25 " "
Total Volume				1.35	21.8	7.29 454	14.0	38.7 4.27 " "
				1.45	21.8	7.26 454	14.0	39.7 4.28 " "
				1.55	21.8	7.25 445	14.0	42.8 4.29 " "

Sample ID No. MW-8 Date/Time 11/2/05 0955 Sampled By C. [unclear] Method micropurge Preservative _____ Filtered: yes / no

FIELD PARAMETERS (After Sample Collection)

Time 1000 Temperature 14.1 (C/F) Specific Conductance 21.8 (umhos/cm) pH 4.30 (std units)

* Note @ 11 to 1.25 l/min drawdown was (19.43' btoc) > 0.09' water column would allow 3.03'

PURGING/SAMPLING INFORMATION FORM

GENERAL INFORMATION

Site GEPAILCAR Purging/Sampling Point ID (Well No.) MW-9 Project No. 2017-17
 General Wellhead Condition concrete/s.v. good Top of Casing Elev. (msl / re) _____ ft. Weather clear, windy
x 500'

FLUID LEVEL/WELL DEPTH MEASUREMENTS

Static Water Level (ft btoc) _____ TD (ft btoc) 26.92 Previous TD (ft btoc) 26.91 Static Water Level Elev. (msl / re) _____ ft.
 Sediment Thickness _____ ft. Sediment Description _____ Sediment Removal Method _____ Obstructed: Yes No
 Top of Screen (ft btoc) _____ Screen Length _____ (ft.) x 0.10 _____ maximum drawdown during micropurging
 Measured By Eline Well Headspace Reading (ppm or %) 0.0 ppm Date/Time 10/23/05

PURGE DATA

Macro Volume Calculations
 Well TD 26.92 - Static Water Level 22.54 = Water Column 4.38 ft. x 0.17 (2 in.) or 0.66 (4 in.) .745 x 3 (2.234) ^{8.99 gts} gallons or .745 x 5 3.725 gallons
 (1419 gts)
 Micro Volume Calculation
 Well TD _____ - Static Water Level _____ = Water Column _____ ft. x 0.00118 = _____ gallons x 3.785 _____ liters to remove prior to first parameter measurement

Purge Volume	Date	Start Time	Stop Time	Volume (Gallons/liters)	Specific Conductance	Dissolved Oxygen/Redox	Temperature (C°/F°)	Turbidity /pH/Color/ Odor
Purge Volume 1	11/2/05	0850	0857	9.5 gts dry	* removed 3 volumes, so will collect samples after well has recovered some			v.c cloudy, 11/1000
Purge Volume 2		1200		25.75 ft btoc				
Purge Volume 3		1210		collect sample				cloudy/murky color
Purge Volume 4								
Purge Volume 5		* removed		1.17 ft in 3 hours	5.5	11.9 / 253	13.9	5.61 / 5.82
Purge Volume 6								
Purge Volume 7					1220 (approximate)			
Purge Volume 8					bailed dry while collecting samples & QW aliquot			
Purge Volume 9								
Total Volume				* dedicated bailer suspended w/ cotton cord				

SAMPLING DATA

Sample ID No. MW9 Date/Time 11/02/05 1210 Sampled By Chatterjee Method bailer Preservative HCL Filtered: yes No

FIELD PARAMETERS (After Sample Collection)

Time 1220 Temperature 13.9 (°C) (°F) Specific Conductance 5.5 mS/cm (µmhos/cm) pH 5.82 (std units)

* bail well, when sampled March 2004, purging rate could not be adjusted to maintain draw-down parameter, bailed and used 2 hr rule

PURGING/SAMPLING INFORMATION FORM

GENERAL INFORMATION

Site EIKTON, MD - GERRS Purging/Sampling Point ID (Well No.) MW-10 Project No. 2017
 General Wellhead Condition Good Top of Casing Elev (msl) (re) 80.66 ft. Weather 45°F, clear, night

FLUID LEVEL/WELL DEPTH MEASUREMENTS

Static Water Level (ft btoc) 32.63 TD (ft btoc) 43.69 Previous TD (ft btoc) 43.68 Static Water Level Elev (msl) (re) 48.03 ft.
 Sediment Thickness NA ft. Sediment Description NA Sediment Removal Method NA Obstructed: Yes / No
 Top of Screen (ft btoc) 33.19 Screen Length 10 (ft.) x 0.10 1.0 maximum drawdown during micropurging 33.63 ft BTOC
 Measured By MRW Well Headspace Reading (ppm or %) ∅ Date/Time 10-26-05

PURGE DATA

Macro Volume Calculations

Well TD _____ - Static Water Level _____ = Water Column _____ ft. x 0.17 (2 in.) or 0.66 (4 in.) _____ x 3 _____ gallons or _____ x 5 _____ gallons

Micro Volume Calculation

Well TD 43.69 - Static Water Level 32.63 = Water Column 11.06 ft. x 0.00118 = 0.01305 gallons x 3.785 0.04940 liters to remove prior to first parameter measurement
= 49.40 mL

Purge Volume	Date	Start Time	Stop Time	Volume (mL) (gallons/liters)	Specific Conductance (ms/cm)	Dissolved Oxygen/Redox	Temperature (°C/°F)	Turbidity /pH/Color/ Odor
Purge Volume 1	11-2-05	1813		<u>∅</u>	<u>0.198</u>	<u>5.10/-105</u>	<u>12.06</u>	<u>179/4.73/brown/none</u>
Purge Volume 2		1815		<u>MRW 800</u>	<u>0.199</u>	<u>5.16/-103</u>	<u>12.10</u>	<u>117/4.77/↓</u>
Purge Volume 3		1817		<u>1600</u>	<u>0.200</u>	<u>5.15/-98</u>	<u>12.07</u>	<u>65.3/4.76/cloudy</u>
Purge Volume 4		1819		<u>2400</u>	<u>0.198</u>	<u>5.14/-91</u>	<u>12.09</u>	<u>50.0/4.74/↓</u>
Purge Volume 5		1821		<u>3200</u>	<u>0.198</u>	<u>5.15/-91</u>	<u>12.12</u>	<u>47.2/4.71/↓</u>
Purge Volume 6		1823		<u>4000</u>	<u>0.198</u>	<u>5.15/-88</u>	<u>12.11</u>	<u>42.8/4.72 ↓ ↓</u>
Purge Volume 7								
Purge Volume 8								
Purge Volume 9								
Total Volume								

SAMPLING DATA

Sample ID No. MW-10 Date/Time 11-2-05/1830 Sampled By MRW Method low flow Preservative HCl Filtered: yes no

FIELD PARAMETERS (After Sample Collection)

Time 1840 Temperature 12.09 (°C/°F) Specific Conductance 0.197 (ms/cm) (µmhos/cm) pH 4.68 (std units)

PURGING/SAMPLING INFORMATION FORM

GENERAL INFORMATION

Site GERMILAN ELKton Purging/Sampling Point ID (Well No.) MW-11 Project No. 20779
 General Wellhead Condition concrete/S.V. 5000 Top of Casing Elev. (msl / re) _____ ft. Weather clear windy
high 50's

FLUID LEVEL/WELL DEPTH MEASUREMENTS

Static Water Level (ft btoc) 27.53 TD (ft btoc) 34.24 Previous TD (ft btoc) 34.24 Static Water Level Elev. (msl / re) _____ ft.
 Sediment Thickness _____ ft. Sediment Description _____ Sediment Removal Method _____ Obstructed: Yes / No
 Top of Screen (ft btoc) _____ Screen Length 10 (ft.) x 0.10 1.0 maximum drawdown during micropurging
 Measured By Eline Well Headspace Reading (ppm or %) 8.7 ppm Date/Time 10/25/05

$27.53 \times .43 = 11.84 \text{ psi} \rightarrow 2.5 \text{ ft}$ **PURGE DATA**

Macro Volume Calculations

Well TD _____ - Static Water Level _____ = Water Column _____ ft. x 0.17 (2 in.) or 0.66 (4 in.) _____ x 3 _____ gallons or _____ x 5 _____ gallons

Micro Volume Calculation

Well TD 34.24 - Static Water Level 27.53 = Water Column 6.71 ft. x 0.00118 = 0.012078 gallons x 3.785 0.04571 liters to remove prior to first parameter measurement

Purge Volume	Date	Start Time	Stop Time	Volume (Gallons/liters)	Specific Conductance	Dissolved Oxygen/Redox	Temperature (°C/°F)	Turbidity /pH/Color/ Odor			
								10	10	10	
Purge Volume 1	11/2/05	1505	1508	0.225	21.1	6.11	13.4	38.8	4.51	clear	21.0
Purge Volume 2			1509	0.35	20.9	5.22	13.3	33.2	4.51	"	"
Purge Volume 3			1510	0.5	20.8	4.75	13.2	23.3	4.49	"	"
Purge Volume 4			1511	0.65	20.8	4.50	13.2	17.9	4.41	"	"
Purge Volume 5			1512	0.8	20.8	4.38	13.2	15.2	4.31	"	"
Purge Volume 6			1513	0.85	20.9	4.24	13.1	18.7	4.25	"	"
Purge Volume 7			1514	1.1	21.0	4.06	13.1	21.7	4.20	"	"
Purge Volume 8			1515	1.25	21.1	3.89	13.1	25.5	4.18	"	7.
Purge Volume 9			1516	1.40	21.1	3.78	13.1	26.9	4.17	"	"
Total Volume			1517	1.55	21.2	3.71	13.1	21.4	4.17	clear	10
			1518	1.70	21.2	3.67	13.1	20.4	4.16		

SAMPLING DATA

Sample ID No. MW-11 Date/Time 11/2/05 1525 Sampled By _____ Method Micropurge Preservative HCL Filtered: yes no

FIELD PARAMETERS (After Sample Collection)

Time 1530 Temperature 13.0 (°C) °F) Specific Conductance 21.1 (µmhos/cm) pH 4.17 (std units)

PURGING/SAMPLING INFORMATION FORM

GENERAL INFORMATION

Site General Electric Purging/Sampling Point ID (Well No.) MW-12R Project No. 201719
 General Wellhead Condition _____ Top of Casing Elev. (msl / re) _____ ft. Weather clear, no wind
low 60's °F

FLUID LEVEL/WELL DEPTH MEASUREMENTS

Static Water Level (ft btoc) _____ TD (ft btoc) 35.42 Previous TD (ft btoc) NA Static Water Level Elev. (msl / re) _____ ft.
 Sediment Thickness _____ ft. Sediment Description _____ Sediment Removal Method _____ Obstructed: Yes / No
 Top of Screen (ft btoc) _____ Screen Length 15 (ft.) x 0.10 1.5 maximum drawdown during micropurging
 Measured By E. Tine Well Headspace Reading (ppm or %) 39.9 ppm Date/Time 10/25/05

PURGE DATA

Macro Volume Calculations

Well TD _____ - Static Water Level _____ = Water Column _____ ft. x 0.17 (2 in.) or 0.66 (4 in.) _____ x 3 _____ gallons or _____ x 5 _____ gallons

Micro Volume Calculation

Well TD 35.42 - Static Water Level 26.23 = Water Column 9.09 ft. x 0.00118 = 0.010762 gallons x 3.785 0.0613 liters to remove prior to first parameter measurement

Purge Volume	Date	Start Time	Stop Time	Volume (Gallons/liters)	Specific Conductance	Dissolved Oxygen/Redox		Temperature (°F)	Turbidity /pH/Color/ Odor			
						3% → 3	10%		70	10	stro	
Purge Volume 1	11/2/05	1719	1721-1722	0.3	39.3	4.31	12.6	12.6	22.7	5.48	clear	stro
Purge Volume 2			1723	0.55	39.8	2.86	-3	12.5	19.2	5.56	11	11
Purge Volume 3			1724	0.80	39.9	2.07	-8	12.5	18.4	5.62	11	11
Purge Volume 4			1725	1.05	39.9	1.64	-11	12.5	19.5	5.66	11	11
Purge Volume 5			1726	1.30	40.2	1.42	-14	12.5	15.0	5.68	11	11
Purge Volume 6			1727	1.55	40.2	1.25	-17	12.5	18.6	5.71	11	11
Purge Volume 7			1728	1.80	40.3	1.12	-21	12.5	16.0	5.72	11	11
Purge Volume 8			1729	2.05	40.2	1.03	-25	12.5	15.9	5.74	11	11
Purge Volume 9			1730	2.30	40.3	0.97	-27	12.5	14.1	5.74	11	11
Total Volume			1731	2.55	40.2	0.91	-31	12.5	13.5	5.74	11	11
			1732	2.80	40.1	0.89	-32	12.5	9.3	5.73	clear	stro

SAMPLING DATA

Sample ID No. MW-12R Date/Time 11/2/05 1737 Sampled By Andrew Method micro purge Preservative HC Filtered: yes

FIELD PARAMETERS (After Sample Collection)

Time 1740 Temperature 12.5 (°C) / 50.5 (°F) Specific Conductance 40.2 (µmhos/cm) pH 5.74 (std units)

PURGING/SAMPLING INFORMATION FORM

GENERAL INFORMATION

Site Elkton, MD - GERES Purging/Sampling Point ID (Well No.) MW-13 Project No. 2017
 General Wellhead Condition Good Top of Casing Elev. (ft. / re) 71.80 ft. Weather 65°F, partly cloudy

FLUID LEVEL/WELL DEPTH MEASUREMENTS

Static Water Level (ft btoc) 26.64 TD (ft btoc) 28.13 Previous TD (ft btoc) 28.13 Static Water Level Elev. (ft. / re) 45.16 ft.
 Sediment Thickness NA ft. Sediment Description NA Sediment Removal Method NA Obstructed: Yes / No
 Top of Screen (ft btoc) 22.63 Screen Length 5 (ft.) x 0.10 0.5 maximum drawdown during micropurging = 27.14 ft BTOC
 Measured By MRW Well Headspace Reading (ppm or %) 0 Date/Time 10-26-05

PURGE DATA

Macro Volume Calculations

Well TD _____ - Static Water Level _____ = Water Column _____ ft. x 0.17 (2 in.) or 0.66 (4 in.) _____ x 3 _____ gallons or _____ x 5 _____ gallons

Micro Volume Calculation

Well TD 28.13 - Static Water Level 26.64 = Water Column 1.49 ft. x 0.00118 = 0.001758 gallons x 3.785 0.006655 liters to remove prior to first parameter measurement
= 6.655 mL

	Date	Start Time	Stop Time	Volume (mL) (Gallons/Liters)	Specific Conductance (mS/cm)	Dissolved Oxygen/Redox	Temperature (°C/°F)	Turbidity /pH/Color/ Odor
Purge Volume 1	11-1-05	1537		0	0.175	3.56 / -38	16.28	11.84 / 4.78 / clear / none
Purge Volume 2		1540		100	0.170	2.96 / -37	15.95	8.67 / 4.62
Purge Volume 3		1543		200	0.168	2.57 / -45	15.88	6.92 / 4.50
Purge Volume 4		1546		300	0.164	2.31 / -54	15.88	6.27 / 4.55
Purge Volume 5		1549		400	0.165	2.29 / -62	15.90	5.87 / 4.44
Purge Volume 6		1552		500	0.161	1.75 / -73	15.81	5.16 / 4.32
Purge Volume 7		1555		600	0.160	1.56 / -77	15.51	4.92 / 4.27
Purge Volume 8		1558		700	0.158	1.52 / -79	15.47	4.80 / 4.27
Purge Volume 9		1601		800	0.157	1.47 / -83	15.42	4.57 / 4.24
Total Volume								

SAMPLING DATA

Sample ID No. MW-13 Date/Time 11-1-05 / 1608 Sampled By MRW Method low flow Preservative HCl Filtered: yes / no

FIELD PARAMETERS (After Sample Collection)

Time 1613 Temperature 15.36 (°C) °F Specific Conductance 0.158 (mS/cm) (µmhos/cm) pH 4.20 (std units)

PURGING/SAMPLING INFORMATION FORM

GENERAL INFORMATION

Site Elkton, MD GERRS Purging/Sampling Point ID (Well No.) MW-14 Project No. 2017
 General Wellhead Condition Good Top of Casing Elev. (msl/re) 60.39 ft. Weather 60°F, fair

FLUID LEVEL/WELL DEPTH MEASUREMENTS

Static Water Level (ft btoc) 15.60 TD (ft btoc) 30.39 Previous TD (ft btoc) 30.39 Static Water Level Elev. (msl/re) 44.79 ft.
 Sediment Thickness NA ft. Sediment Description NA Sediment Removal Method NA Obstructed: Yes / No
 Top of Screen (ft btoc) 14.89 Screen Length 15 (ft.) x 0.10 1.5 maximum drawdown during micropurging = 17.10ft BTOC
 Measured By MRW Well Headspace Reading (ppm or %) 0 Date/Time 10.26.05

PURGE DATA

Macro Volume Calculations

Well TD _____ - Static Water Level _____ = Water Column _____ ft. x 0.17 (2 in.) or 0.66 (4 in.) _____ x 3 _____ gallons or _____ x 5 _____ gallons

Micro Volume Calculation

Well TD 30.39 - Static Water Level 15.60 = Water Column 14.79 ft. x 0.00118 = 0.01745 gallons x 3.785 0.06606 liters to remove prior to first parameter measurement
= 66.06 mL

Purge Volume	Date	Start Time	Stop Time	Volume (mL) (Gallons/liters)	Specific Conductance (mS/cm)	Dissolved Oxygen/Redox	Temperature (C°/F°)	Turbidity /pH/Color/ Odor
Purge Volume 1	10.31.05	1033		0	0.167	3.50/-73	15.15	4.23/4.88/cloudy/none
Purge Volume 2		1035		700	0.166	3.27/-65	15.16	3.35/4.89/
Purge Volume 3		1037		1400	0.166	3.29/-66	15.27	4.06/4.79/
Purge Volume 4		1039		2100	0.166	3.63/-68	15.52	4.33/4.83
Purge Volume 5		1041		2800	0.167	3.70/-70	15.66	2.61/4.78
Purge Volume 6		1043		3500	0.168	4.23/-65	15.85	3.50/4.78
Purge Volume 7		1045		4200	0.170	4.38/-62	15.93	2.77/4.81
Purge Volume 8		1047		4900	0.171	4.60/-63	16.04	3.28/4.81
Purge Volume 9		1049		5600	0.172	4.81/-64	16.12	1.98/4.80
Total Volume								

SAMPLING DATA

Sample ID No. MW-14 Date/Time 10.31.05/1055 Sampled By MRW Method low flow Preservative HCl Filtered: yes / No

FIELD PARAMETERS (After Sample Collection)

Time 1056 Temperature 16.21 (C°)°F Specific Conductance 0.173 (mS/cm) pH 4.79 (std units)

PURGING/SAMPLING INFORMATION FORM

GENERAL INFORMATION

Site Elkton, MD - GERRS Purging/Sampling Point ID (Well No.) MW-15 Project No. 2017
 General Wellhead Condition Good Top of Casing Elev. (msl) (re) 60.82 ft. Weather 60°F, clear

FLUID LEVEL/WELL DEPTH MEASUREMENTS

Static Water Level (ft btoc) 16.29 TD (ft btoc) 31.48 Previous TD (ft btoc) 31.49 Static Water Level Elev. (msl) (re) 44.53 ft.
 Sediment Thickness NA ft. Sediment Description NA Sediment Removal Method NA Obstructed: Yes / NO
 Top of Screen (ft btoc) 15.98 H₂O Column 15.19 (ft.) x 0.10 1.52 maximum drawdown during micropurging = 17.81
 Measured By MRW Well Headspace Reading (ppm or %) 0 Date/Time 10.26.05

PURGE DATA

Macro Volume Calculations

Well TD _____ - Static Water Level _____ = Water Column _____ ft. x 0.17 (2 in.) or 0.66 (4 in.) _____ x 3 _____ gallons or _____ x 5 _____ gallons

Micro Volume Calculation

Well TD 31.48 - Static Water Level 16.29 = Water Column 15.19 ft. x 0.00118 = 0.01792 gallons x 3.785 = 0.06784 liters to remove prior to first parameter measurement

Purged approx. 1200 mL = 67.84 mL

Purge Volume	Date	Start Time	Stop Time	Volume (ML) (Gallons/liters)	Specific Conductance (ms/cm) prior to measurement	Dissolved Oxygen/Redox	Temperature (C/F)	Turbidity /pH/Color/ Odor
Purge Volume 1	10-30-05	1634		0	0.121	0.46 / -160	14.61	18.8 / 5.06 / cloudy / no
Purge Volume 2		1636		600	0.121	0.41 / -186	14.70	13.10 / 5.05 / clear /
Purge Volume 3		1638		1200	0.122	0.40 / -185	14.83	15.84 / 5.02
Purge Volume 4		1640		1800	0.122	0.40 / -182	14.85	12.6 / 4.99
Purge Volume 5				2400				
Purge Volume 6								
Purge Volume 7								
Purge Volume 8								
Purge Volume 9								
Total Volume								

SAMPLING DATA

Sample ID No. MW-15 Date/Time 10-30-05/1645 Sampled By MRW Method low flow Preservative HCl Filtered: yes / no

FIELD PARAMETERS (After Sample Collection)

Time 1700 Temperature 14.84 (C) (F) Specific Conductance 0.121 (ms/cm) (umhos/cm) pH 4.98 (std units)

PURGING/SAMPLING INFORMATION FORM

GENERAL INFORMATION

Site Elkton, MD - GERRS Purging/Sampling Point ID (Well No.) MW-16 Project No. 2017
 General Wellhead Condition Fair - wood gone on 1 side Top of Casing Elev. (msl) (re) 60.79 ft. Weather N60°F, clear, fair

FLUID LEVEL/WELL DEPTH MEASUREMENTS

Static Water Level (ft btoc) 15.81 TD (ft btoc) 25.38 Previous TD (ft btoc) 25.38 Static Water Level Elev. (msl) (re) 44.98 ft.
 Sediment Thickness NA ft. Sediment Description NA Sediment Removal Method NA Obstructed: Yes / (No)
 Top of Screen (ft btoc) 14.88 Screen Length 10 (ft.) x 0.10 1.0 maximum drawdown during micropurging = 16.81
 Measured By MRW Well Headspace Reading (ppm or %) 0 Date/Time 10.26.05

PURGE DATA

Macro Volume Calculations

Well TD _____ - Static Water Level _____ = Water Column _____ ft. x 0.17 (2 in.) or 0.66 (4 in.) _____ x 3 _____ gallons or _____ x 5 _____ gallons

Micro Volume Calculation

Well TD 25.38 - Static Water Level 15.81 = Water Column 9.57 ft. x 0.00119 = 0.01129 gallons x 3.785 = 0.04274 liters to remove prior to first parameter measurement
= 42.74 mL

	Date	Start Time	Stop Time	Volume (ml) (Gallons/liters)	Specific Conductance (mS/cm)	Dissolved Oxygen/ Redox	Temperature (C°/F°)	Turbidity /pH/Color/ Odor
Purge Volume 1	10.30.05	1443		0	0.195	0.57/-172	14.77	80.6 / 5.69 / brown / slight
Purge Volume 2		1445		800	0.193	0.59/-190	15.03	46.0 / 5.66 / cloudy
Purge Volume 3		1447		1600	0.192	0.50/-194	15.12	36.9 / 5.66 ↓
Purge Volume 4		1449		2400	0.194	0.40/-197	15.35	17.8 / 5.68
Purge Volume 5		1451		3200	0.195	0.39/-211	15.36	17.0 / 5.64
Purge Volume 6		1453		4000	0.201	0.30/-222	15.42	11.94 / 5.68 ↓
Purge Volume 7		1455		4800	0.201	0.25/-231	15.42	9.69 / 5.68 / clear
Purge Volume 8		1457		5600	0.200	0.23/-235	15.43	8.05 / 5.67 / clear
Purge Volume 9		1459		6400	0.200	0.25/-237	15.42	6.78 / 5.66 ↓
Total Volume								

SAMPLING DATA

Sample ID No. MW-16 Date/Time 10.30.05/1506 Sampled By MRW Method low flow Preservative HCl Filtered: yes / (No)

FIELD PARAMETERS (After Sample Collection)

Time 1508 Temperature 1540 (C°) (F°) Specific Conductance 0.199 (mS/cm) (µmhos/cm) pH 5.66 (std units)
MRW

PURGING/SAMPLING INFORMATION FORM

GENERAL INFORMATION

Site Eikton, MD GERS Purging/Sampling Point ID (Well No.) MW-17 Project No. 2017
 General Wellhead Condition Good Top of Casing Elev. (msl/re) 62.44 ft. Weather 55°F, partly cloudy

FLUID LEVEL/WELL DEPTH MEASUREMENTS

Static Water Level (ft btoc) 21.21 TD (ft btoc) 29.96 Previous TD (ft btoc) 29.97 Static Water Level Elev. (msl/re) 41.23 ft.
 Sediment Thickness NA ft. Sediment Description NA Sediment Removal Method NA Obstructed: Yes / NO
 Top of Screen (ft btoc) 19.46 Screen Length 8.75 (ft.) x 0.10 0.875 maximum drawdown during micropurging = 22.085 ft BTOC
 Measured By MRW Well Headspace Reading (ppm or %) 0 Date/Time 10.26.05

PURGE DATA

Macro Volume Calculations

Well TD _____ - Static Water Level _____ = Water Column _____ ft. x 0.17 (2 in.) or 0.66 (4 in.) _____ x 3 _____ gallons or _____ x 5 _____ gallons

Micro Volume Calculation

Well TD 29.96 - Static Water Level 21.21 = Water Column 8.75 ft. x 0.00118 = 0.01033 gallons x 3.785 0.03908 liters to remove prior to first parameter measurement
 = 39.08 mL

Purge Volume	Date	Start Time	Stop Time	Volume (mL) (Gallons/liters)	Specific Conductance (mS/cm)	Dissolved Oxygen/Redox	Temperature (°C/°F)	Turbidity /pH/Color/ Odor
Purge Volume 1	10-28-05	1350		0	0.148	0.49 / -203	14.15	8.10 / 5.15 / clear / slight
Purge Volume 2		1353		800	0.147	0.35 / -214	14.46	12.53 / 5.13
Purge Volume 3		1356		1600	0.145	0.30 / -222	14.58	7.49 / 5.10
Purge Volume 4		1359		2400	0.142	0.30 / -237	14.87	4.24 / 5.06
Purge Volume 5		1402		3200	0.139	0.26 / -239	14.95	3.26 / 5.00
Purge Volume 6		1405		4000	0.138	0.23 / -249	14.96	1.85 / 5.00
Purge Volume 7		1408		4800	0.138	0.22 / -253	14.83	1.18 / 5.02
Purge Volume 8		1411		5600	0.142	0.21 / -256	14.82	0.94 / 5.08
Purge Volume 9								
Total Volume								

SAMPLING DATA

Sample ID No. MW-17 Date/Time 10.28.05/1415 Sampled By MRW Method low flow Preservative HCl Filtered: yes / no

FIELD PARAMETERS (After Sample Collection)

Time 1417 Temperature 14.83 (°C) °F Specific Conductance 0.140 (mS/cm) (umho/cm) pH 5.05 (std units)

PURGING/SAMPLING INFORMATION FORM

GENERAL INFORMATION

Site Elkton, MD - GEPRS Purging/Sampling Point ID (Well No.) MW-18 Project No. 2017
 General Wellhead Condition Good Top of Casing Elev. (ft) 60.63 ft. Weather ~50°F, mostly sunny

FLUID LEVEL/WELL DEPTH MEASUREMENTS

Static Water Level (ft btoc) 18.98 TD (ft btoc) 22.13 Previous TD (ft btoc) 22.83 Static Water Level Elev. (ft) 41.65
 Sediment Thickness NA ft. Sediment Description NA Sediment Removal Method NA Obstructed: Yes / No
 Top of Screen (ft btoc) 11.63 Screen Length 10 (ft.) x 0.10 1.0 maximum drawdown during micropurging = 19.98 ft BToc
 Measured By MRW Well Headspace Reading (ppm) or % 0 Date/Time 10.26.05

PURGE DATA

Macro Volume Calculations

Well TD _____ - Static Water Level _____ = Water Column _____ ft. x 0.17 (2 in.) or 0.66 (4 in.) _____ x 3 _____ gallons or _____ x 5 _____ gallons

Micro Volume Calculation

Well TD 22.13 - Static Water Level 18.98 = Water Column 3.15 ft. x 0.00118 = 0.003717 gallons x 3.785 0.01407 liters to remove prior to first parameter measurement
= 14.07 mL

Date	Start Time	Stop Time	Volume (mL) (mL) Gallons/Liters	Specific Conductance (mS/cm)	Dissolved Oxygen/Redox	Temperature (C/F)	Turbidity / pH / Color / Odor
11.1.05	0934		0	0.184	1.26 / -152	16.15	237 / 5.58 / brown / none
	0936		700	0.176	0.59 / -149	16.26	71 / 5.54 / cloudy /
	0938		1400	0.175	0.40 / -179	16.35	29.6 / 5.41 / ↓
	0940		2100	0.176	0.31 / -184	16.38	18.4 / 5.39 / clear
	0942		2800	0.176	0.28 / -190	16.37	12.95 / 5.42 /
	0944		3500	0.177	0.26 / -199	16.38	11.51 / 5.44 /
	0946		4200	0.177	0.23 / -207	16.38	5.19 / 5.47
	0948		4900	0.178	0.22 / -212	16.41	2.30 / 5.47
	0950		5600	0.181	0.21 / -222	16.38	1.89 / 5.45 ↓
Total Volume							

SAMPLING DATA

Sample ID No. MW-18 Date/Time 11.1.05/0955 Sampled By MRW Method low flow Preservative HCl Filtered: yes (No)

FIELD PARAMETERS (After Sample Collection)

Time 1000 Temperature 16.41 (°C) (°F) Specific Conductance 0.189 (mS/cm) (µmhos/cm) pH 5.47 (std units)

PURGING/SAMPLING INFORMATION FORM

GENERAL INFORMATION

Site Eikton, MD GERS Purging/Sampling Point ID (Well No.) MW-19 Project No. 2017
 General Wellhead Condition Good Top of Casing Elev. (msl/re) 60.43 ft. Weather ~60°F, clear

FLUID LEVEL/WELL DEPTH MEASUREMENTS

Static Water Level (ft btoc) 19.21 TD (ft btoc) 24.50 Previous TD (ft btoc) 24.50 Static Water Level Elev. (msl/re) 41.22 ft.
 Sediment Thickness NA ft. Sediment Description NA Sediment Removal Method NA Obstructed: Yes / No
 Top of Screen (ft btoc) 35 14.00 Screen Length 10 (ft.) x 0.10 1.0 maximum drawdown during micropurging - 20.21
 Measured By MRW Well Headspace Reading (ppm or %) 0 Date/Time 10-26-05

PURGE DATA

Macro Volume Calculations

Well TD _____ - Static Water Level _____ = Water Column _____ ft. x 0.17 (2 in.) or 0.66 (4 in.) _____ x 3 _____ gallons or _____ x 5 _____ gallons

Micro Volume Calculation

Well TD 24.50 - Static Water Level 19.21 = Water Column 5.29 ft. x 0.00118 = 0.006242 gallons x 3.785 0.02363 liters to remove prior to first parameter measurement
= 23.63 mL

	Date	Start Time	Stop Time	Volume (mL) (Gallons/liters)	Specific Conductance (mS/cm)	Dissolved Oxygen/Redox	Temperature (C/F)	Turbidity /pH/Color/ Odor
Purge Volume 1	10-30-05	1214		0	0.226	2.71 / -94	15.09	28.0 / 6.00 / cloudy / none
Purge Volume 2		1216		800	0.219	2.38 / -98	15.10	16.51 / 5.88 / ✓
Purge Volume 3		1218		1600	0.218	2.31 / -93	15.19	13.84 / 5.77 / clear
Purge Volume 4		1220		2400	0.219	2.28 / -101	15.08	9.80 / 5.76
Purge Volume 5		1222		3200	0.218	2.24 / -99	15.07	5.86 / 5.75
Purge Volume 6		1224		4000	0.213	2.16 / -95	15.05	5.44 / 5.71
Purge Volume 7		1226		4800	0.210	2.12 / -99	15.05	4.94 / 5.69
Purge Volume 8		1228		5600	0.209	1.99 / -117	15.05	3.29 / 5.64
Purge Volume 9		1230		6400	0.206	1.92 / -115	15.06	3.29 / 5.66
Total Volume		1232		7200	0.204	-1.86 / -121	15.05	3.16 / 5.65
		1234		8000	0.200	1.84 / -126	15.06	2.93 / 5.62

SAMPLING DATA

Sample ID No. MW-19 Date/Time 10-30-05/1239 Sampled By MRW Method low slow Preservative HCl Filtered: yes / no

FIELD PARAMETERS (After Sample Collection)

Time 1245 Temperature 15.07 (°C) °F Specific Conductance 0.194 (mS/cm) (µmhos/cm) pH 5.63 (std units)

PURGING/SAMPLING INFORMATION FORM

GENERAL INFORMATION

Site Eikton, MD - GERRS Purging/Sampling Point ID (Well No.) MW-20 Project No. 2017
 General Wellhead Condition Good Top of Casing Elev. (ft/sl/re) 59.87 ft. Weather 45°F, clear

FLUID LEVEL/WELL DEPTH MEASUREMENTS

Static Water Level (ft btoc) 20.63 TD (ft btoc) 30.13 Previous TD (ft btoc) 30.15 Static Water Level Elev. (ft/sl/re) 39.24 ft.
 Sediment Thickness NA ft. Sediment Description NA Sediment Removal Method NA Obstructed: Yes / No
 Top of Screen (ft btoc) 19.63 Screen Length 9.5 (ft.) x 0.10 0.95 maximum drawdown during micropurging = 21.58 ft BTOC
 Measured By MRW Well Headspace Reading (ppm or %) Date/Time 10.26.05

PURGE DATA

Macro Volume Calculations

Well TD _____ - Static Water Level _____ = Water Column _____ ft. x 0.17 (2 in.) or 0.66 (4 in.) _____ x 3 _____ gallons or _____ x 5 _____ gallons

Micro Volume Calculation

Well TD 30.13 - Static Water Level 20.63 = Water Column 9.5 ft. x 0.00118 = 0.01121 gallons x 3.785 0.4243 liters to remove prior to first parameter measurement

	Date	Start Time	Stop Time	Volume (Gallons/liters)	Specific Conductance (mS/cm)	Dissolved Oxygen/Redox	Temperature (C°/F°)	Turbidity /pH/Color/ Odor
Purge Volume 1	10-29-05	1740		0	0.351	0.64 / -241	13.54	140 / 5.57 / cloudy / non
Purge Volume 2		1742		500	0.334	0.51 / -245	13.61	83.2 / 5.54 /
Purge Volume 3		1744		1000	0.322	0.57 / -237	13.61	62.9 / 5.45
Purge Volume 4		1746		1500	0.314	0.72 / -221	13.61	55.1 / 5.53
Purge Volume 5		1748		2000	0.306	1.48 / -201	13.61	47.0 / 5.51
Purge Volume 6		1750		2500	0.296	2.85 / -153	13.67	31.8 / 5.53
Purge Volume 7		1752		3000	0.293	3.10 / -149	13.66	29.6 / 5.54
Purge Volume 8		1754		3500	0.289	3.36 / -147	13.62	32.1 / 5.53
Purge Volume 9		1756		4000	0.283	3.23 / -150	13.66	34.5 / 5.53
Total Volume								

SAMPLING DATA

Sample ID No. MW-20 Date/Time 10-29-05/1800 Sampled By MRW Method low flow Preservative HCl Filtered: yes / no

FIELD PARAMETERS (After Sample Collection)

Time 1806 Temperature 13.60 °C °F Specific Conductance 0.272 (mS/cm) (µmhos/cm) pH 5.49 (std units)

Handwritten signature/initials

PURGING/SAMPLING INFORMATION FORM

GENERAL INFORMATION

Site ELKTON, MD GERRS Purging/Sampling Point ID (Well No.) MW-21 Project No. 2017
 General Wellhead Condition Good Top of Casing Elev. (msl/fe) 57.28 ft. Weather 55°F, sunny

FLUID LEVEL/WELL DEPTH MEASUREMENTS

Static Water Level (ft btoc) 19.92 TD (ft btoc) 39.81 Previous TD (ft btoc) 39.81 Static Water Level Elev. (msl/fe) 37.36 ft.
 Sediment Thickness NA ft. Sediment Description NA Sediment Removal Method NA Obstructed: Yes / No
 Top of Screen (ft btoc) 24.31 Screen Length 15.0 (ft.) x 0.10 1.5 maximum drawdown during micropurging = 21.42 ft BTOC
 Measured By MRW Well Headspace Reading (ppm or %) 0 Date/Time 10.26.05

PURGE DATA

Macro Volume Calculations

Well TD 39.81 ^(HW) - Static Water Level _____ = Water Column _____ ft. x 0.17 (2 in.) or 0.66 (4 in.) _____ x 3 _____ gallons or _____ x 5 _____ gallons

Micro Volume Calculation

Well TD 39.81 - Static Water Level 19.92 = Water Column 19.89 ft. x 0.00118 = 0.02347 gallons x 3.785 0.08883 liters to remove prior to first parameter measurement
 = 88.83

Purge Volume	Date	Start Time	Stop Time	Volume (mL) ^(MW) Gallons/liters	Specific Conductance (ms/cm)	Dissolved Oxygen/Redox	Temperature (°C/°F)	Turbidity /pH/Color/ Odor
Purge Volume 1	10.30.05	1034		0	0.313	0.67/-168	14.17	208 / 4.71 / brown / none
Purge Volume 2		1036		700	0.298	0.52/-180	14.12	153 / 4.73 /
Purge Volume 3		1038		1400	0.293	0.44/-195	14.10	128 / 4.75
Purge Volume 4		1040		2100	0.291	0.41/-199	14.09	120 / 4.72
Purge Volume 5		1042		2800	0.292	0.38/-207	14.08	115 / 4.72 ↓
Purge Volume 6		1044		3500	0.287	0.35/-214	14.07	109 / 4.75 cloudy ↓
Purge Volume 7		1046		4200	0.285	0.33/-218	14.09	106 / 4.75 ↓
Purge Volume 8		1048		4900	0.283	0.32/-222	14.10	99 / 4.76 ↓
Purge Volume 9								
Total Volume								

SAMPLING DATA

Sample ID No. MW-21 Date/Time 10.30.05/1052 Sampled By MRW Method low flow Preservative HCl Filtered: yes / no

FIELD PARAMETERS (After Sample Collection)

Time 1058 Temperature 14.09 °C/°F Specific Conductance 0.284 (ms/cm) ^(MW) pH 4.77 (std units)

PURGING/SAMPLING INFORMATION FORM

GENERAL INFORMATION

Site GE RAILCAR Elkton Purging/Sampling Point ID (Well No.) MW-22 Project No. 2017-19
 General Wellhead Condition good S.V. + concrete Top of Casing Elev. (msl / re) _____ ft. Weather clear / some cloud / cool
 hi 54°F (forecast) light breeze

FLUID LEVEL/WELL DEPTH MEASUREMENTS

Static Water Level (ft btoc) _____ TD (ft btoc) 38.00 Previous TD (ft btoc) 38.00 Static Water Level Elev. (msl / re) _____ ft.
 Sediment Thickness _____ ft. Sediment Description _____ Sediment Removal Method _____ Obstructed: Yes / No
 Top of Screen (ft btoc) _____ Screen Length 20.00 (ft.) x 0.10 2.0 maximum drawdown during micropurging
 Measured By Eline / mel bpe Well Headspace Reading (ppm or %) 00 ppm Date/Time 10/25/09

PURGE DATA

Macro Volume Calculations

Well TD _____ - Static Water Level _____ = Water Column _____ ft. x 0.17 (2 In.) or 0.66 (4 In.) _____ x 3 _____ gallons or _____ x 5 _____ gallons

Micro Volume Calculation

Well TD 38.00 - Static Water Level 17.74 = Water Column 20.26 ft. x 0.00118 = 0.03646 gallons x 3.785 0.138 liters to remove prior to first parameter measurement

	Date	Start Time	Stop Time	Volume (Gallons/liters)	Specific Conductance	Dissolved Oxygen/Redox	Temperature (°C/°F)	Turbidity /pH/Color/ Odor
Purge Volume 1	<u>10/29/09</u>	<u>0815</u>	<u>0818</u>	<u>0.4</u>	<u>31.2</u>	<u>6.8 2.81</u>	<u>11.9</u>	<u>10.0 4.90</u> <u>slightly cloudy</u> <u>NO</u>
Purge Volume 2			<u>0820</u>	<u>1.7</u>	<u>31.0</u>	<u>4.70 2.85</u>	<u>11.9</u>	<u>17.7</u> <u>4.92</u> <u>"</u> <u>"</u>
Purge Volume 3			<u>0821</u>	<u>1.1</u>	<u>30.8</u>	<u>3.32 2.86</u>	<u>12.0</u>	<u>17.6</u> <u>4.93</u> <u>"</u> <u>"</u>
Purge Volume 4			<u>0823</u>	<u>1.8</u>	<u>30.6</u>	<u>2.33 2.88</u>	<u>12.0</u>	<u>22.2</u> <u>4.96</u> <u>"</u> <u>"</u>
Purge Volume 5			<u>0824</u>	<u>2.2</u>	<u>30.6</u>	<u>2.25 2.88</u>	<u>12.0</u>	<u>22.1</u> <u>4.98</u> <u>"</u> <u>"</u>
Purge Volume 6			<u>0825</u>	<u>2.6</u>	<u>30.4</u>	<u>2.06 2.88</u>	<u>11.9</u>	<u>23.3</u> <u>5.00</u> <u>"</u> <u>"</u>
Purge Volume 7			<u>0826</u>	<u>3.0</u>	<u>30.3</u>	<u>1.97 2.88</u>	<u>11.9</u>	<u>22.8</u> <u>5.02</u> <u>"</u> <u>"</u>
Purge Volume 8			<u>0827</u>	<u>3.4</u>	<u>30.3</u>	<u>1.97 2.88</u>	<u>11.9</u>	<u>23.0</u> <u>5.03</u> <u>"</u> <u>"</u>
Purge Volume 9			<u>0828</u>	<u>3.8</u>	<u>30.2</u>	<u>1.89 2.88</u>	<u>12.0</u>	<u>23.0</u> <u>5.04</u> <u>"</u> <u>"</u>
Total Volume								

SAMPLING DATA

Sample ID No. SMW-22 Date/Time 10/29 / 0830 Sampled By Chatterjee Method micropurge Preservative HCL Filtered: yes no

FIELD PARAMETERS (After Sample Collection)

Time 0835 Temperature 11.9 (°C) °F 53.4 Specific Conductance 30.3 (µmhos/cm) 30.3 pH 5.03 (std units)

PURGING/SAMPLING INFORMATION FORM

GENERAL INFORMATION

Site GERMILAN Elkton Purging/Sampling Point ID (Well No.) MW-23 Project No. 2017-19
 General Wellhead Condition S.V. + concrete pad weeds/vines growing * 1' pad masonry when installed Top of Casing Elev. (msl / re) _____ ft. Weather clear / few white clouds / light breeze / 55°F forecast
 Static Water Level (ft btoc) 14.26 TD (ft btoc) 38.89 Previous TD (ft btoc) 38.90 Static Water Level Elev. (msl / re) _____ ft.
 Sediment Thickness _____ ft. Sediment Description _____ Sediment Removal Method _____ Obstructed: Yes / (No) (No)
 Top of Screen (ft btoc) _____ Screen Length 20 (ft.) x 0.10 2.0 maximum drawdown during micropurging
 Measured By Eline / metal tape Well Headspace Reading (ppm or %) 00 ppm Date/Time 10/29/05

PURGE DATA

Macro Volume Calculations

Well TD _____ - Static Water Level _____ = Water Column _____ ft. x 0.17 (2 in.) or 0.66 (4 in.) _____ x 3 _____ gallons or _____ x 5 _____ gallons

Micro Volume Calculation

Well TD 38.89 - Static Water Level 14.26 = Water Column 24.63 ft. x 0.00118 = 0.0291 gallons x 3.785 0.109 liters to remove prior to first parameter measurement

Purge Volume	Date	Start Time	Stop Time	Volume (Gallons/liters)	Specific Conductance	Dissolved Oxygen/Redox	Temperature (C/F)	Turbidity / pH / Color / Odor				
Purge Volume 1	10/29/05	0935	0938	0.3	79.7	836	327	12.8	7999	3.87	clear	NO
Purge Volume 2			0939	0.3	79.7	836	327	12.8	7999	3.87	clear	NO
Purge Volume 3			0940	0.7	81.1	878	343	12.8	881	3.70	"	"
Purge Volume 4			0942	1.2	81.5	6.87	353	12.9	7999	3.65	Yell	"
Purge Volume 5			0944	2.1	81.3	5.43	351	12.8	7999	3.67	"	"
Purge Volume 6			0946	2.4	80.3	4.87	355	12.7	7999	3.68	"	NO
Purge Volume 7			0951	0.25	78.4	4.16	361	12.8	7999	3.54	Yell	NO
Purge Volume 8			0954	0.75	78.2	2.40	358	12.8	7999	3.61	"	"
Purge Volume 9			0955	1.0	78.1	2.27	357	12.8	7999	3.63	"	"
Total Volume			0956	1.25 (3.65)	78.0	2.16	355	12.8	7999	3.65	"	"
			0957	1.50 (4.15)	78.1	2.03	353	12.8	7999	3.68	"	"
			0958	1.75 (4.35)	77.9	1.95	352	12.8	7999	3.69	"	"

SAMPLING DATA

Sample ID No. MW-23 Date/Time 10/29/05 1005 Sampled By Ch... / 77.4 Method Micro purge Preservative _____ Filtered: yes / no
 Temperature 12.8 Specific Conductance 76.9 pH 3.69

FIELD PARAMETERS (After Sample Collection)

Time 1009 Temperature 12.8 (°C) (°F) Specific Conductance 76.9 (µmhos/cm) pH 3.69 (std units)
 MS/cm

PURGING/SAMPLING INFORMATION FORM

GENERAL INFORMATION

Site GERAILCAR ELKton Purging/Sampling Point ID (Well No.) MW-24 Project No. 2017-19
 General Wellhead Condition concrete / S.U. 500' Top of Casing Elev. (msl / re) _____ ft. Weather clear light breeze
2700ft

FLUID LEVEL/WELL DEPTH MEASUREMENTS

Static Water Level (ft btoc) 28.42 TD (ft btoc) 35.21 Previous TD (ft btoc) 35.21 Static Water Level Elev. (msl / re) _____ ft.
 Sediment Thickness _____ ft. Sediment Description _____ Sediment Removal Method _____ Obstructed: Yes/ No
 Top of Screen (ft btoc) _____ Screen Length 10.0 (ft.) x 0.10 1.0 maximum drawdown during micropurging
 Measured By Eline Well Headspace Reading (ppm or %) 0.0 ppm Date/Time 10/25/05

PURGE DATA

Macro Volume Calculations

Well TD _____ - Static Water Level _____ = Water Column _____ ft. x 0.17 (2 in.) or 0.66 (4 in.) _____ x 3 _____ gallons or _____ x 5 _____ gallons

Micro Volume Calculation

Well TD 35.21 - Static Water Level 28.42 = Water Column 6.79 ft. x 0.00118 = 0.012222 gallons x 3.785 0.04626 liters to remove prior to first parameter measurement

Purge Volume	Date	Start Time	Stop Time	Volume (Gallons/Liters)	Specific Conductance	Dissolved Oxygen/Redox	Temperature (°C/°F)	Turbidity / pH/Color/ Odor			
								U/L	No		
Purge Volume 1	11/1/05	1215	1220	0.15	16.2	801 / 443	13.5	80.3	4.70	1609	No
Purge Volume 2			1222	0.25	16.3	6.77 / 437	13.3	97.5	4.88	"	"
Purge Volume 3			1223	0.375	16.3	5.95 / 437	13.3	122.0	4.77	"	"
Purge Volume 4			1225	0.60	16.3	5.52 / 432	13.2	129.0	4.55	"	"
Purge Volume 5			1227	0.8	16.4	5.52 / 437	13.3	117.0	4.37	"	"
Purge Volume 6			1229	1.05	16.5	5.58 / 441	13.3	123.0	4.24	clearly	"
Purge Volume 7			1230	1.20	16.6	5.71 / 448	13.2	118.0	4.19	"	"
Purge Volume 8			1231	1.30	16.6	5.73 / 452	13.2	124.0	4.16	"	"
Purge Volume 9			1232	1.425	16.7	5.75 / 456	13.2	127.0	4.10	"	"
Total Volume			1233	1.55	16.6	5.71 / 460	13.3	130.0	4.09	"	"
			1234	1.65	16.7	5.70 / 461	13.3	121.0	4.08	"	"
			1235	1.75	16.7	5.71 / 461	13.2	123.0	4.05	slightly cloudy	"
			1236	1.90	16.8	5.72 / 468	13.2	130.0	4.05	cloudy	"

SAMPLING DATA

Sample ID No. MW-24 Date/Time 11/1/05 1240 Sampled By _____ Method micropurge Preservative HCL Filtered: yes no

FIELD PARAMETERS (After Sample Collection)

Time 1245 Temperature 13.3 (°C) °F Specific Conductance 16.7 (µmhos/cm) pH 4.03 (std units)

PURGING/SAMPLING INFORMATION FORM

GENERAL INFORMATION

Site GERALD Etkon Purging/Sampling Point ID (Well No.) MW-25 Project No. 2017-19
 General Wellhead Condition concrete / s.v. good Top of Casing Elev. (msl / re) _____ ft. Weather clear slight breeze ~70°F

FLUID LEVEL/WELL DEPTH MEASUREMENTS

Static Water Level (ft btoc) 33.44 (cm) TD (ft btoc) 36.93 Previous TD (ft btoc) 36.93 Static Water Level Elev. (msl / re) _____ ft.
 Sediment Thickness _____ ft. Sediment Description _____ Sediment Removal Method _____ Obstructed: Yes / No
 Top of Screen (ft btoc) _____ Screen Length 10 (ft.) x 0.10 1.0 maximum drawdown during micropurging
 Measured By Eline Well Headspace Reading (ppm or %) 0.0 ppm Date/Time 10/25/05

PURGE DATA

Macro Volume Calculations

Well TD _____ - Static Water Level _____ = Water Column _____ ft. x 0.17 (2 in.) or 0.66 (4 in.) _____ x 3 _____ gallons or _____ x 5 _____ gallons

Micro Volume Calculation

Well TD 36.93 - Static Water Level 33.34 = Water Column 3.59 ft. x 0.00118 = 0.006462 gallons x 3.785 0.02445 liters to remove prior to first parameter measurement

Purge Volume	Date	Start Time	Stop Time	Volume (Gallons/liters)	Specific Conductance (µS/cm)	Dissolved Oxygen/Redox	Temperature (°C/°F)	10. ctd	
								Turbidity	pH/Color/ Odor
Purge Volume 1	11/1/05	1330	1331	0.15	17.6	8.55 / 478	14.9	167	4.31 slightly cloudy 110
Purge Volume 2			1331	0.15	17.7	8.52 / 476	14.5	169	4.32 " "
Purge Volume 3			1332	0.30	17.7	8.46 / 475	14.4	171	4.32 " "
Purge Volume 4			1333	0.475	17.7	8.53 / 474	14.0	178	4.32 " "
Purge Volume 5			1334	0.60	17.6	8.56 / 473	13.9	173	4.31 " "
Purge Volume 6			1335	0.775	17.5	8.63 / 473	13.8	171	4.30 " "
Purge Volume 7			1336	0.875	17.5	8.71 / 472	13.8	170	4.29 " "
Purge Volume 8			1337	1.05	17.4	8.72 / 471	13.8	167	4.32 " "
Purge Volume 9			1338	1.20	17.3	8.76 / 471	13.9	177	4.32 " "
Total Volume			1339	1.30	17.3	8.74 / 472	13.9	169	4.29 clear "
			1340	1.45	17.3	8.70 / 473	13.8	174	4.28 clear "

SAMPLING DATA

Sample ID No. MW-25 Date/Time 11/1/05 1345 Sampled By _____ Method Micropurge Preservative HCL Filtered: yes (no)

FIELD PARAMETERS (After Sample Collection)

Time 1350 Temperature 13.8 (°C) (°F) _____ Specific Conductance 17.4 (µmhos/cm) (ms/cm) _____ pH 4.28 (std units)

EQUIPMENT BLANK after decont pump

PURGING/SAMPLING INFORMATION FORM

GENERAL INFORMATION

Site GERMILAN (11/26) Purging/Sampling Point ID (Well No.) MW-26 Project No. 7017-19
 General Wellhead Condition S.V. 5000 Top of Casing Elev. (msl / re) _____ ft. Weather _____
Concrete waves

FLUID LEVEL/WELL DEPTH MEASUREMENTS

Static Water Level (ft btoc) _____ TD (ft btoc) 39.32 Previous TD (ft btoc) 39.32 Static Water Level Elev. (msl / re) _____ ft.
 Sediment Thickness _____ ft. Sediment Description _____ Sediment Removal Method _____ Obstructed: Yes No
 Top of Screen (ft btoc) _____ Screen Length 10 (ft.) x 0.10 1.0 maximum drawdown during micropurging
 Measured By Eline Well Headspace Reading (ppm or %) 0 ppm Date/Time 10/25/05

PURGE DATA

Macro Volume Calculations

Well TD _____ - Static Water Level _____ = Water Column _____ ft. x 0.17 (2 in.) or 0.66 (4 in.) _____ x 3 _____ gallons or _____ x 5 _____ gallons

Micro Volume Calculation

Well TD 39.32 - Static Water Level 30.32 = Water Column 7.06 ft. x 0.00118 = 0.012708 gallons x 3.785 0.04872 liters to remove prior to first parameter measurement

Date	Start Time	Stop Time	Volume (Gallons/liters)	Specific Conductance	Dissolved Oxygen/Redox	Temperature (C/F)	Turbidity /pH/Color/ Odor	
							10	10
<u>11/1/05</u>	<u>1645</u>	<u>1647</u>	<u>0.2</u>	<u>19.2</u>	<u>9.59</u> / <u>451</u>	<u>12.9</u>	<u>117</u>	<u>4.38</u> / cloudy / <u>10</u>
		<u>1648</u>	<u>.2</u>	<u>19.2</u>	<u>9.13</u> / <u>451</u>	<u>12.9</u>	<u>102</u>	<u>4.37</u> / " / "
		<u>1649</u>	<u>.4</u>	<u>19.2</u>	<u>8.82</u> / <u>444</u>	<u>13.0</u>	<u>104</u>	<u>4.39</u> / " / "
		<u>1650</u>	<u>.55</u>	<u>19.2</u>	<u>8.64</u> / <u>439</u>	<u>13.0</u>	<u>110</u>	<u>2.39</u> / " / "
		<u>1651</u>	<u>.70</u>	<u>19.2</u>	<u>8.50</u> / <u>431</u>	<u>12.9</u>	<u>116</u>	<u>4.39</u> / " / "
		<u>1652</u>	<u>.85</u>	<u>19.0</u>	<u>8.44</u> / <u>433</u>	<u>13.0</u>	<u>113</u>	<u>4.38</u> / " / "
		<u>1653</u>	<u>1.00</u>	<u>19.0</u>	<u>8.40</u> / <u>432</u>	<u>13.0</u>	<u>117</u>	<u>4.38</u> / " / "
		<u>1654</u>	<u>1.15</u>	<u>19.1</u>	<u>8.39</u> / <u>431</u>	<u>12.9</u>	<u>119</u>	<u>4.37</u> / " / "
		<u>1655</u>	<u>1.30</u>	<u>19.2</u>	<u>8.36</u> / <u>431</u>	<u>12.9</u>	<u>115</u>	<u>4.39</u> / " / "
		<u>1656</u>	<u>1.45</u>	<u>19.2</u>				
		<u>1657</u>	<u>1.60</u>	<u>19.1</u>				

SAMPLING DATA

Sample ID No. MW-26 Date/Time 11/1/05 1705 Sampled By Ch. Montez Method Micropurge Preservative HCL Filtered: yes

FIELD PARAMETERS (After Sample Collection)

Time 1710 Temperature 13.0 (C/F) Specific Conductance 19.2 (ms/cm / umhos/cm) pH 4.37 (std units)

PURGING/SAMPLING INFORMATION FORM

GENERAL INFORMATION

Site GERMILOR - Elleton Purging/Sampling Point ID (Well No.) MW-27 Project No. 2017-19
 General Wellhead Condition Concrete / s.v. good Top of Casing Elev. (msl / re) _____ ft. Weather cool clear, light breeze
 (High 50°F)

FLUID LEVEL/WELL DEPTH MEASUREMENTS

Static Water Level (ft btoc) 8.67 TD (ft btoc) 1461 Previous TD (ft btoc) 1461 Static Water Level Elev. (msl / re) _____ ft.
 Sediment Thickness _____ ft. Sediment Description _____ Sediment Removal Method _____ Obstructed: Yes () No (X)
 Top of Screen (ft btoc) _____ Screen Length 5 (ft.) x 0.10 5 maximum drawdown during micropurging
 Measured By Eline Well Headspace Reading (ppm or %) 0.0 ppm Date/Time 10/25/05

PURGE DATA

Macro Volume Calculations

Well TD _____ - Static Water Level _____ = Water Column _____ ft. x 0.17 (2 in.) or 0.66 (4 in.) _____ x 3 _____ gallons or _____ x 5 _____ gallons

Micro Volume Calculation

Well TD 1461 - Static Water Level 8.67 = Water Column 5.94 ft. x 0.00118 = 0.01067 gallons x 3.785 = 0.04069 liters to remove prior to first parameter measurement

Purge Volume	Date	Start Time	Stop Time	Volume (Gallons/Liters)	3% → 5% Specific Conductance	10% → 0.3 Dissolved Oxygen/Redox	0.2 Temperature (°C/°F)	10 0.10 Turbidity /pH/Color/ Odor			
Purge Volume 1	<u>10/1/05</u>	<u>0930</u>	<u>0933</u>	<u>0.25</u>	<u>15.9</u>	<u>5.42</u> / <u>402</u>	<u>16.6</u>	<u>485.0</u>	<u>4.37</u>	<u>610</u>	<u>ND</u>
Purge Volume 2		<u>0932</u>		<u>.35</u>	<u>15.9</u>	<u>4.96</u> / <u>406</u>	<u>16.8</u>	<u>558.0</u>	<u>4.26</u>	<u>"</u>	<u>"</u>
Purge Volume 3		<u>0933</u>		<u>.45</u>	<u>15.9</u>	<u>4.68</u> / <u>408</u>	<u>16.8</u>	<u>549.0</u>	<u>4.21</u>	<u>"</u>	<u>"</u>
Purge Volume 4		<u>0934</u>		<u>.55</u>	<u>15.9</u>	<u>4.41</u> / <u>422</u>	<u>16.8</u>	<u>537.0</u>	<u>4.04</u>	<u>"</u>	<u>"</u>
Purge Volume 5		<u>0935</u>		<u>.70</u>	<u>16.2</u>	<u>4.10</u> / <u>430</u>	<u>16.8</u>	<u>548.0</u>	<u>4.00</u>	<u>"</u>	<u>"</u>
Purge Volume 6		<u>0936</u>		<u>.80</u>	<u>16.4</u>	<u>3.87</u> / <u>445</u>	<u>16.7</u>	<u>556.0</u>	<u>3.94</u>	<u>"</u>	<u>"</u>
Purge Volume 7		<u>0937</u>		<u>.95</u>	<u>16.6</u>	<u>3.61</u> / <u>453</u>	<u>16.7</u>	<u>560.0</u>	<u>3.83</u>	<u>"</u>	<u>"</u>
Purge Volume 8		<u>0938</u>		<u>1.05</u>	<u>16.7</u>	<u>3.43</u> / <u>457</u>	<u>16.6</u>	<u>569.0</u>	<u>3.91</u>	<u>"</u>	<u>"</u>
Purge Volume 9		<u>0939</u>		<u>1.15</u>	<u>16.9</u>	<u>3.33</u> / <u>459</u>	<u>16.6</u>	<u>558.0</u>	<u>3.90</u>	<u>"</u>	<u>"</u>
Total Volume		<u>0940</u>		<u>1.25</u>	<u>17.0</u>	<u>3.20</u> / <u>460</u>	<u>16.6</u>	<u>561.0</u>	<u>3.90</u>	<u>"</u>	<u>"</u>
		<u>0941</u>		<u>1.35</u>	<u>17.1</u>	<u>3.10</u> / <u>465</u>	<u>16.6</u>	<u>555.0</u>	<u>3.90</u>	<u>"</u>	<u>"</u>
		<u>0942</u>		<u>1.45</u>	<u>17.2</u>	<u>3.00</u> / <u>468</u>	<u>16.6</u>	<u>567.0</u>	<u>3.88</u>	<u>cloudy</u>	<u>ND</u>
		<u>0943</u>		<u>1.55</u>							

SAMPLING DATA

Sample ID No. MW-27 Date/Time 11/1/05 945 Sampled By C. Montano Method Micro purge Preservative HC Filtered: yes (X) No ()

FIELD PARAMETERS (After Sample Collection)

Time 0950 Temperature 16.6 (°C/°F) Specific Conductance 17.3 (µmhos/cm) pH 3.88 (std units)

PURGING/SAMPLING INFORMATION FORM

GENERAL INFORMATION

Site Fertilizer Elkton Purging/Sampling Point ID (Well No.) MW-28 Project No. 2017-19
 General Wellhead Condition concrete - loose, waves Top of Casing Elev. (msl / re) _____ ft. Weather clear, light breeze
S.V. good

FLUID LEVEL/WELL DEPTH MEASUREMENTS

Static Water Level (ft btoc) 20.00 TD (ft btoc) 27.76 Previous TD (ft btoc) 27.76 Static Water Level Elev. (msl / re) _____ ft.
 Sediment Thickness _____ ft. Sediment Description _____ Sediment Removal Method _____ Obstructed: Yes No
 Top of Screen (ft btoc) _____ Screen Length 10.0 (ft.) x 0.10 1.0 maximum drawdown during micropurging
 Measured By ELI Well Headspace Reading (ppm or %) 0 ppm Date/Time 10/25/05

PURGE DATA

Macro Volume Calculations

Well TD _____ - Static Water Level _____ = Water Column _____ ft. x 0.17 (2 in.) or 0.66 (4 in.) _____ x 3 _____ gallons or _____ x 5 _____ gallons

Micro Volume Calculation

Well TD 27.76 - Static Water Level 20.00 = Water Column 7.76 ft. x 0.00118 = 0.01397 gallons x 3.785 = 0.05287 liters to remove prior to first parameter measurement

Purge Volume	Date	Start Time	Stop Time	Volume (Gallons/liters)	Specific Conductance (µS/cm)	Dissolved Oxygen/Redox (mV)	Temperature (°C/°F)	Turbidity / pH / Color / Odor				
Purge Volume 1	11/1/05	1538	1539	0.3	19.0	8.12	464	14.6	43.2	4.30	clear	ND
Purge Volume 2			1539	0.575	19.0	8.90	461	14.4	32.2	4.27	"	"
Purge Volume 3			1540	0.80	19.0	8.80	460	14.4	24.9	4.24	"	"
Purge Volume 4			1541	1.1	19.0	8.66	461	14.4	24.4	4.22	"	"
Purge Volume 5			1542	1.3	19.0	8.61	462	14.4	23.8	4.20	"	"
Purge Volume 6			1543	1.55	19.0	8.55	464	14.4	23.4	4.19	"	"
Purge Volume 7			1544	2.05	19.0	8.52	465	14.4	22.4	4.19	"	"
Purge Volume 8			1545	2.30	19.0	8.49	466	14.4	22.3	4.18	"	"
Purge Volume 9			1546	2.58	19.0	8.47	468	14.4	22.2	4.17	"	"
Total Volume			1547			8.45	468	14.4	22.4	4.16	clear	ND
			1548									

SAMPLING DATA

Sample ID No. MW-28 Date/Time 11/1/05 1553 Sampled By Choutour Method MISO purge Preservative HCL Filtered: yes no

FIELD PARAMETERS (After Sample Collection)

Time 1558 Temperature 14.4 (°C) (°F) _____ Specific Conductance 19.0 (µmhos/cm) 1215/cm pH 4.15 (std units)

PURGING/SAMPLING INFORMATION FORM

GENERAL INFORMATION

Site GERALD CAR ELKTON Purging/Sampling Point ID (Well No.) MW-29 Project No. 2017-19
 General Wellhead Condition _____ Top of Casing Elev. (msl / re) _____ ft. Weather clear, no wind
warm high 60's or

FLUID LEVEL/WELL DEPTH MEASUREMENTS

Static Water Level (ft btoc) 15.48 TD (ft btoc) 23.53 Previous TD (ft btoc) 23.54 Static Water Level Elev. (msl / re) _____ ft.
 Sediment Thickness _____ ft. Sediment Description _____ Sediment Removal Method _____ Obstructed: Yes / (No)
 Top of Screen (ft btoc) _____ Screen Length _____ (ft.) x 0.10 _____ maximum drawdown during micropurging
 Measured By Eline / metal tap Well Headspace Reading (ppm or %) _____ Date/Time 10/25/05

PURGE DATA

Macro Volume Calculations

Well TD _____ - Static Water Level _____ = Water Column _____ ft. x 0.17 (2 in.) or 0.66 (4 in.) _____ x 3 _____ gallons or _____ x 5 _____ gallons

Micro Volume Calculation

Well TD 23.53 - Static Water Level 15.48 = Water Column 8.05 ft. x 0.00118 = 0.01449 gallons x 3.785 0.05484 liters to remove prior to first parameter measurement

Date	Start Time	Stop Time	Volume (Gallons/liters)	Specific Conductance	Dissolved Oxygen/Redox	Temperature (°C/°F)	Turbidity / pH / Color / Odor		
							Turbidity	pH	Color / Odor
<u>10/31/05</u>	<u>1621</u>	<u>1623</u>	<u>0.3</u>	<u>16.2</u>	<u>4.31</u> <u>425</u>	<u>74.9</u>	<u>308.0</u>	<u>5.61</u>	<u>cloudy</u> <u>NO</u>
		<u>1625</u>	<u>.55</u>	<u>16.0</u>	<u>3.22</u> <u>422</u>	<u>14.7</u>	<u>130</u>	<u>5.65</u>	<u>"</u> <u>"</u>
		<u>1626</u>	<u>.80</u>	<u>15.1</u>	<u>2.98</u> <u>420</u>	<u>14.7</u>	<u>105</u>	<u>5.59</u>	<u>"</u> <u>"</u>
		<u>1628</u>	<u>1.25</u>	<u>14.0</u>	<u>3.70</u> <u>411</u>	<u>14.7</u>	<u>57.5</u>	<u>5.15</u>	<u>"</u> <u>"</u>
		<u>1629</u>	<u>1.50</u>	<u>13.8</u>	<u>4.12</u> <u>408</u>	<u>14.7</u>	<u>49.3</u>	<u>4.96</u>	<u>slight cloud</u> <u>"</u>
		<u>1630</u>	<u>1.80</u>	<u>13.6</u>	<u>4.62</u> <u>404</u>	<u>14.7</u>	<u>53.3</u>	<u>4.80</u>	<u>"</u> <u>"</u>
		<u>1631</u>	<u>2.05</u>	<u>13.6</u>	<u>4.86</u> <u>404</u>	<u>14.7</u>	<u>52.0</u>	<u>4.82</u>	<u>"</u> <u>"</u>
		<u>1632</u>	<u>2.35</u>	<u>13.5</u>	<u>5.08</u> <u>405</u>	<u>14.7</u>	<u>48.9</u>	<u>4.62</u>	<u>"</u> <u>"</u>
		<u>1633</u>	<u>2.60</u>	<u>13.6</u>	<u>5.20</u> <u>405</u>	<u>14.7</u>	<u>48.6</u>	<u>4.63</u>	<u>"</u> <u>"</u>
		<u>1634</u>	<u>2.85</u>	<u>13.5</u>	<u>5.35</u> <u>410</u>	<u>14.7</u>	<u>43.5</u>	<u>4.57</u>	<u>C / clear</u> <u>"</u>
		<u>1635</u>	<u>3.10</u>	<u>13.5</u>	<u>5.36</u> <u>411</u>	<u>14.7</u>	<u>44.1</u>	<u>4.58</u>	<u>C / clear</u> <u>"</u>

SAMPLING DATA

Sample ID No. MW-29 Date/Time 10/31/05 1640 Sampled By _____ Method Micropurge Preservative HCL Filtered: yes / (No)

FIELD PARAMETERS (After Sample Collection)

Time 1643 Temperature 14.7 (°C) °F Specific Conductance 13.6 (µmhos/cm) pH 4.55 (std units)

PURGING/SAMPLING INFORMATION FORM

GENERAL INFORMATION

Site Elkton, MD - GERAS Purging/Sampling Point ID (Well No.) MW-30 Project No. 2017
 General Wellhead Condition Good Top of Casing Elev. (fms)/ re) 58.38 ft. Weather 65°F, mostly sunny

FLUID LEVEL/WELL DEPTH MEASUREMENTS

Static Water Level (ft btoc) 12.64 TD (ft btoc) 22.58 Previous TD (ft btoc) 22.58 Static Water Level Elev. (fms)/ re) 45.74 ft.
 Sediment Thickness NA ft. Sediment Description NA Sediment Removal Method NA Obstructed: Yes / No
 Top of Screen (ft btoc) 12.08 Screen Length 10 (ft.) x 0.10 1.0 maximum drawdown during micropurging = 13.64 ft BTOC
 Measured By MRW Well Headspace Reading (ppm or %) 0 Date/Time 10-26-05

PURGE DATA

Macro Volume Calculations

Well TD 22.58 - Static Water Level _____ = Water Column _____ ft. x 0.17 (2 in.) or 0.66 (4 in.) _____ x 3 _____ gallons or _____ x 5 _____ gallons

Micro Volume Calculation

Well TD 22.58 - Static Water Level 12.64 = Water Column 9.94 ft. x 0.00118 = 0.01173 gallons x 3.785 = 0.04440 liters to remove prior to first parameter measurement
MRW = 41.56 = 44.40 mL

	Date	Start Time	Stop Time	Volume (mL) (Gallons/Liters)	Specific Conductance (µS/cm)	Dissolved Oxygen/Redox	Temperature (°C/°F)	Turbidity /pH/Color/ Odor
Purge Volume 1	11.1.05	1116		0	0.110	3.77 / -49	17.13	44.7 / 5.13 / brown / none
Purge Volume 2		1118		800	0.075	5.52 / -16	17.36	17.1 / 4.86 / cloudy /
Purge Volume 3		1120		1600	0.070	5.86 / -5	17.41	12.62 / 4.62 / clear /
Purge Volume 4		1122		2400	0.073	6.07 / 4	17.40	8.34 / 4.47 /
Purge Volume 5		1124		3200	0.078	6.08 / 7	17.42	5.51 / 4.44
Purge Volume 6		1126		4000	0.081	6.06 / 1.5 (MRW)	17.39	4.59 / 4.49
Purge Volume 7		1128		4800	0.084	6.05 / 2	17.38	3.20 / 4.49
Purge Volume 8		1130		3200	0.086	6.04 / 1	17.37	3.12 / 4.45
Purge Volume 9								
Total Volume								

SAMPLING DATA

Sample ID No. MW-30 Date/Time 11.1.05 / 1135 Sampled By MRW Method low flow Preservative HCl Filtered: yes / no

FIELD PARAMETERS (After Sample Collection)

Time 1142 Temperature 17.40 (°C) / (°F) Specific Conductance 0.091 (µmhos/cm) pH 4.48 (std units)

PURGING/SAMPLING INFORMATION FORM

GENERAL INFORMATION

Site GERMILCAE - Elkton Purging/Sampling Point ID (Well No.) MW-31 Project No. 2017-19
 General Wellhead Condition concrete / S.V. good Top of Casing Elev. (msl / re) _____ ft. Weather clear, light breeze
warm, ~70°

FLUID LEVEL/WELL DEPTH MEASUREMENTS

Static Water Level (ft btoc) _____ TD (ft btoc) 41.64 Previous TD (ft btoc) 41.64 Static Water Level Elev. (msl / re) _____ ft.
 Sediment Thickness _____ ft. Sediment Description _____ Sediment Removal Method _____ Obstructed: Yes / No (No)
 Top of Screen (ft btoc) _____ Screen Length 15 (ft.) x 0.10 1.5 maximum drawdown during micropurging
 Measured By Eline [unclear] [unclear] Well Headspace Reading (ppm or %) 0 ppm Date/Time 10/25/08

PURGE DATA

Macro Volume Calculations

Well TD _____ - Static Water Level _____ = Water Column _____ ft. x 0.17 (2 in.) or 0.66 (4 in.) _____ x 3 _____ gallons or _____ x 5 _____ gallons

Micro Volume Calculation

Well TD 41.64 - Static Water Level 16.40 = Water Column 25.24 ft. x 0.00118 = 0.04543 gallons x 3.785 0.17196 liters to remove prior to first parameter measurement

Purge Volume	Date	Start Time	Stop Time	Volume (Gallons/Liters)	Specific Conductance	Dissolved Oxygen/Redox	Temperature (°C/°F)	Turbidity / pH / Color / Odor			
								1	10	10	10
Purge Volume 1	10/31/05	1522	1528	0.65	11.3	6.73	13.3	28.9	4.44	clear	ND
Purge Volume 2		1529		1.00	11.3	6.81	13.3	25.8	4.60	"	"
Purge Volume 3		1530		1.3	11.3	7.02	13.4	27.5	4.57	"	"
Purge Volume 4		1531		1.6	11.2	7.15	13.3	23.1	4.56	"	"
Purge Volume 5		1532		1.95	11.2	7.27	13.4	25.4	4.55	"	"
Purge Volume 6		1533		2.25	11.1	7.36	13.4	24.4	4.54	"	"
Purge Volume 7		1534		2.55	11.1	7.42	13.4	26.5	4.53	"	"
Purge Volume 8		1535		2.85	11.0	7.49	13.4	27.7	4.53	"	"
Purge Volume 9		1536		3.15	10.9	7.51	13.4	25.9	4.53	"	"
Total Volume		1537		3.45	10.7	7.52	13.3	25.9	4.52	"	"
		1538		3.80	10.7	7.51	13.3	25.3	4.52	clear	ND

SAMPLING DATA

Sample ID No. MW-31 Date/Time 10/31/05 1542 Sampled By _____ Method Micropurge Preservative HCL Filtered: yes / no (no)

FIELD PARAMETERS (After Sample Collection)

Time 1545 Temperature 13.4 (°C) (°F) _____ Specific Conductance 10.8 (µmhos/cm) pH 4.52 (std units)

PURGING/SAMPLING INFORMATION FORM

GENERAL INFORMATION

Site Elkton, MD - GERRS Purging/Sampling Point ID (Well No.) MW-32 Project No. 2017
 General Wellhead Condition Fair - wood border off on one side Top of Casing Elev. (msl / re) 54.59 ft. Weather 70°F, fair

FLUID LEVEL/WELL DEPTH MEASUREMENTS

Static Water Level (ft btoc) 11.87 TD (ft btoc) 31.20 Previous TD (ft btoc) 31.81 Static Water Level Elev. (msl / re) 42.72 ft.
 Sediment Thickness NA ft. Sediment Description NA Sediment Removal Method NA Obstructed: Yes / No
 Top of Screen (ft btoc) 10.70 Screen Length 20.0 (ft.) x 0.10 2.0 maximum drawdown during micropurging = 13.87 ft @ 87°C
 Measured By MRW Well Headspace Reading (ppm or %) 0 Date/Time 10-26-05

PURGE DATA

Macro Volume Calculations

Well TD _____ - Static Water Level _____ = Water Column _____ ft. x 0.17 (2 in.) or 0.66 (4 in.) _____ x 3 _____ gallons or _____ x 5 _____ gallons

Micro Volume Calculation

Well TD 31.20 - Static Water Level 11.87 = Water Column 19.33 ft. x 0.00118 = 0.02281 gallons x 3.785 = 0.08633 liters to remove prior to first parameter measurement
 = 86.33 mL

Date	Start Time	Stop Time	Volume (ml) (Gallons/Liters)	Specific Conductance (mS/cm)	Dissolved Oxygen/Redox	Temperature (C/F)	Turbidity / pH / Color / Odor
10-31-05	1542		0	0.196	1.17 / -159	16.01	29.5 / 5.94 / cloudy / none
	1544		500	0.197	0.70 / -190	15.79	21.3 / 5.99 / clear /
	1546		1000	0.196	0.52 / -198	15.48	19.8 / 6.08
	1548		1500	0.194	0.50 / -201	15.51	21.2 / 6.06
	1550		2000	0.194	0.49 / -208	15.56	18.6 / 6.03
	1552		2500	0.193	0.47 / -212	15.61	17.7 / 6.03
	1554		3000	0.192	0.41 / -212	15.64	16.3 / 6.05
	1556		3500	0.191	0.40 / -215	15.65	14.66 / 6.03

SAMPLING DATA

Sample ID No. MW-32 Date/Time 10-31-05 / 1600 Sampled By MRW Method low flow Preservative HCl Filtered: yes / no
MW-32 MS/MSD 10-31-05 1602/1603

FIELD PARAMETERS (After Sample Collection)

Time 1605 Temperature 15.67 (°C / °F) Specific Conductance 0.159 (mS/cm / µmhos/cm) pH 6.01 (std units)
 (MW)

PURGING/SAMPLING INFORMATION FORM

GENERAL INFORMATION

Site GE R1204C Purging/Sampling Point ID (Well No.) MW-33 Project No. 201719
 General Wellhead Condition Concrete / S.V. good Top of Casing Elev. (msl / re) _____ ft. Weather cold, clear slight breeze

FLUID LEVEL/WELL DEPTH MEASUREMENTS

Static Water Level (ft btoc) 13.13 TD (ft btoc) 34.84 Previous TD (ft btoc) 34.85 Static Water Level Elev. (msl / re) _____ ft.
 Sediment Thickness _____ ft. Sediment Description _____ Sediment Removal Method _____ Obstructed: Yes No
 Top of Screen (ft btoc) _____ Screen Length 25.00 (ft.) x 0.10 25 maximum drawdown during micropurging
 Measured By Eline / metal tape Well Headspace Reading (ppm or %) 0 ppm Date/Time 10/25/05

PURGE DATA

Macro Volume Calculations

Well TD _____ - Static Water Level _____ = Water Column _____ ft. x 0.17 (2 in.) or 0.66 (4 in.) _____ x 3 _____ gallons or _____ x 5 _____ gallons

Micro Volume Calculation

Well TD 34.84 - Static Water Level 13.13 = Water Column 21.71 ft. x 0.00118 = 0.03853 gallons x 3.785 0.1458 liters to remove prior to first parameter measurement

Purge Volume	Date	Start Time	Stop Time	Volume (Gallons/Liters)	Specific Conductance	Dissolved Oxygen/Redox	Temperature (°C/°F)	Turbidity / pH/Color/ Odor			
Purge Volume 1	10/24/05	0834	0832	0.4	20.5	8.93 / 441	13.9	21.3	3.85	clear	ND
Purge Volume 2		0838		0.8	19.8	7.52 / 490	14.0	22.3	3.80	"	"
Purge Volume 3		0844		1.2	19.3	5.32 / 496	14.0	22.5	3.72	"	"
Purge Volume 4		0845		1.6	19.2	4.93 / 501	14.0	31.2	3.71	"	"
Purge Volume 5		0846		1.95	19.4	4.63 / 503	14.0	37.4	3.65	"	"
Purge Volume 6		0847		2.25	19.8	4.44 / 512	14.1	44.0	3.58	slight	"
Purge Volume 7		0848		2.55	19.8	4.25 / 514	14.1	52.4	3.62	"	"
Purge Volume 8		0849		3.50	19.7	4.03 / 517	14.1	56.2	3.69	"	"
Purge Volume 9		0849		3.80	19.7	4.01 / 519	14.1	61.0	3.68	"	"
Total Volume		0843		4.10	19.8	3.97 / 520	14.2	64.2	3.63	"	"
		0844		4.35	19.6	3.87 / 520	14.2	59.5	3.67	slight	MV

SAMPLING DATA

Sample ID No. MW-33 Date/Time 10/29/05 0849 Sampled By Chalenteo Method Micro purge Preservative HCl Filtered: yes no

FIELD PARAMETERS (After Sample Collection)

Time 0850 Temperature 14.1 (°C) (°F) _____ Specific Conductance 19.8 (µmhos/cm) pH 3.65 (std units)

PURGING/SAMPLING INFORMATION FORM

GENERAL INFORMATION

Site GERALD Purging/Sampling Point ID (Well No.) MW-34 Project No. 2017-19
 General Wellhead Condition concrete/g.v. good Top of Casing Elev. (msl / re) _____ ft. Weather clear, windy cool

FLUID LEVEL/WELL DEPTH MEASUREMENTS

Static Water Level (ft btoc) 16.96 TD (ft btoc) 43.53 Previous TD (ft btoc) 43.53 Static Water Level Elev. (msl / re) _____ ft.
 Sediment Thickness _____ ft. Sediment Description _____ Sediment Removal Method _____ Obstructed: Yes / No
 Top of Screen (ft btoc) _____ Screen Length 20 (ft.) x 0.10 2.0 maximum drawdown during micropurging
 Measured By Eline / metal type Well Headspace Reading (ppm or %) 2.7 ppm Date/Time 10/25/05

PURGE DATA

Macro Volume Calculations

Well TD _____ - Static Water Level _____ = Water Column _____ ft. x 0.17 (2 in.) or 0.66 (4 in.) _____ x 3 _____ gallons or _____ x 5 _____ gallons

Micro Volume Calculation

Well TD 43.53 - Static Water Level 16.96 = Water Column 26.27 ft. x 0.00118 = 0.04729 gallons x 3.785 0.179 liters to remove prior to first parameter measurement

Purge Volume	Date	Start Time	Stop Time	Volume (Gallons/liters)	Specific Conductance	Dissolved Oxygen/Redox	Temperature (°C/°F)	Turbidity / pH / Color / Odor			
								10	10		
Purge Volume 1	10/30/05	1242	1244	0.55	13.0	8.24 461	13.2	72.3	4.62	sl. clay	NO
Purge Volume 2		1244	1245	0.8	12.9	8.23 458	13.1	72.1	4.69	clear	NO
Purge Volume 3		1247		1.1	12.9	7.89 456	13.0	74.2	4.68	clear	NO
Purge Volume 4		1248		1.35	12.9	7.51 454	13.0	74.9	4.68	"	NO
Purge Volume 5		1249		1.60	12.9	7.31 452	13.0	75.8	4.67	"	"
Purge Volume 6		1250		1.80	12.9	7.22 450	13.0	76.2	4.67	"	"
Purge Volume 7		1251		2.1	12.9	7.14 448	13.0	77.3	4.67	"	"
Purge Volume 8		1252		2.35	12.9	7.07 447	13.0	78.9	4.68	"	"
Purge Volume 9		1253		2.55	12.9	7.05 445	12.9	81.5	4.68	"	"
Total Volume		1254		2.80	12.9	7.02 443	12.9	85.3	4.68	"	"
		1255			12.9	6.97 442	13.0	80.5	4.68	sl. clay	"

SAMPLING DATA

Sample ID No. MW-34 Date/Time 10/30/05 1258 Sampled By Monte Method Micropurge Preservative HCL Filtered: yes No

FIELD PARAMETERS (After Sample Collection)

Time 1302 Temperature 12.9 (°C) °F _____ Specific Conductance 12.9 mS/cm (µmhos/cm) pH 4.68 (std units)

PURGING/SAMPLING INFORMATION FORM

GENERAL INFORMATION

Site GE RAILCAR - ELKTON Purging/Sampling Point ID (Well No.) MW-35 Project No. 2017-19
 General Wellhead Condition concrete / s.v. good Top of Casing Elev. (msl / re) _____ ft. Weather cold, clear
slight breeze

FLUID LEVEL/WELL DEPTH MEASUREMENTS

Static Water Level (ft btoc) 14.37 TD (ft btoc) 34.97 Previous TD (ft btoc) 34.97 Static Water Level Elev. (msl / re) _____ ft.
 Sediment Thickness _____ ft. Sediment Description _____ Sediment Removal Method _____ Obstructed: Yes No
 Top of Screen (ft btoc) _____ Screen Length _____ (ft.) x 0.10 _____ maximum drawdown during micropurging
 Measured By Eline / initial top Well Headspace Reading (ppm or %) 0 ppm Date/Time 10/25/05

PURGE DATA

Macro Volume Calculations

Well TD _____ - Static Water Level _____ = Water Column _____ ft. x 0.17 (2 in.) or 0.66 (4 in.) _____ x 3 _____ gallons or _____ x 5 _____ gallons

Micro Volume Calculation

Well TD 34.97 - Static Water Level 14.37 = Water Column 20.6 ft. x 0.00118 = 0.0372 gallons x 3.785 0.14035 liters to remove prior to first parameter measurement

Purge Volume	Date	Start Time	Stop Time	Volume (Gallons/liters)	3% → 3 Specific mS/cm Conductance	±10% → Dissolved Oxygen/ Redox	.2 Temperature (°F)	10.0 .10 Turbidity /pH/Color/ Odor			
Purge Volume 1	10/30/05	0953	0955 - 0956	0.45	54.2	601 523	16.4	3.0	3.45	clear	ND
Purge Volume 2			0957	0.7	54.2	527 518	16.6	5.3	3.55	"	"
Purge Volume 3			0958	1.0	54.1	488 516	16.7	5.4	3.54	"	"
Purge Volume 4			0959	1.25	53.8	470 515	16.7	2.8	3.57	"	"
Purge Volume 5			1000	1.5	53.7	457 512	16.8	3.6	3.61	"	"
Purge Volume 6			1001	1.75	53.7	448 511	16.7	3.1	3.63	"	"
Purge Volume 7			1002	1.95	53.6	439 510	16.7	4.7	3.66	"	"
Purge Volume 8			1003	2.30	53.6	436 509	16.8	4.5	3.67	"	"
Purge Volume 9			1004	2.55	53.6	430 508	16.8	3.9	3.68	"	"
Total Volume			1005	2.80	53.6	430 507	16.8	3.7	3.69	clear	ND

SAMPLING DATA

Sample ID No. MW-35 Date/Time 10/30/05 1008 Sampled By Chouhufew Method Micro pump Preservative HCL Filtered: yes No

FIELD PARAMETERS (After Sample Collection)

Time 1010 Temperature 16.8 (°C) °F Specific Conductance 53.6 $\frac{mS}{cm}$ (µmhos/cm) pH 3.68 (std units)

PURGING/SAMPLING INFORMATION FORM

GENERAL INFORMATION

Site GERALD CAR ELKTON Purging/Sampling Point ID (Well No.) MW-36 Project No. 2017-19
 General Wellhead Condition concrete/S.V. good Top of Casing Elev. (msl / re) _____ ft. Weather clear cool windy

FLUID LEVEL/WELL DEPTH MEASUREMENTS

Static Water Level (ft btoc) 13.04 TD (ft btoc) 33.55 Previous TD (ft btoc) 3355 Static Water Level Elev. (msl / re) _____ ft.
 Sediment Thickness _____ ft. Sediment Description _____ Sediment Removal Method _____ Obstructed: Yes / No
 Top of Screen (ft btoc) _____ Screen Length 15 (ft.) x 0.10 1.5 maximum drawdown during micropurging
 Measured By Eline Jurek Fox Well Headspace Reading (ppm or %) _____ Date/Time _____

PURGE DATA

Macro Volume Calculations

Well TD _____ - Static Water Level _____ = Water Column _____ ft. x 0.17 (2 In.) or 0.66 (4 in.) _____ x 3 _____ gallons or _____ x 5 _____ gallons

Micro Volume Calculation

Well TD 33.55 - Static Water Level 13.04 = Water Column 20.51 ft. x 0.00118 = 0.0302 gallons x 3.785 0.13975 liters to remove prior to first parameter measurement

Purge Volume	Date	Start Time	Stop Time	Volume (Gallons/liters)	Specific Conductance	Dissolved Oxygen/Redox	Temperature (C/F)	Turbidity /pH/Color/ Odor			
								ft. x 0.17 (2 In.) or 0.66 (4 in.)	x 3	x 5	
Purge Volume 1	10/30/05	1125	1126	0.35	15.9	425 / 467	14.8	30.6	4.62	clear	no
Purge Volume 2		1127		0.70	15.8	283 / 460	14.7	32.7	4.60	clear	no
Purge Volume 3		1128		1.1	15.8	1.86 / 449	14.5	22.8	4.57	"	"
Purge Volume 4		1129		1.4	15.8	1.46 / 443	14.5	17.3	4.55	"	"
Purge Volume 5		1130		1.8	15.8	1.19 / 440	14.5	12.1	4.52	"	"
Purge Volume 6		1131		2.15	15.8	1.06 / 438	14.6	12.6	4.51	"	"
Purge Volume 7		1132		2.4	15.7	0.85 / 436	14.5	10.0	4.48	"	"
Purge Volume 8		1133		2.7	15.7	0.89 / 436	14.5	7.8	4.47	"	"
Purge Volume 9		1134		3.05	15.7	0.85 / 437	14.5	9.6	4.47	"	"
Total Volume		1135		3.35	15.7	10.88 / 438	14.6	10.8	4.46		

SAMPLING DATA

Sample ID No. MW-36 Date/Time 10/30/05 1140 Sampled By cfm/mtw Method Micropurging Preservative HCL Filtered: yes / no

FIELD PARAMETERS (After Sample Collection)

Time 1145 Temperature 14.5 (°C/°F) Specific Conductance 15.8 ms/cm (µmhos/cm) pH 4.47 (std units)

PURGING/SAMPLING INFORMATION FORM

GENERAL INFORMATION

Site GERALDINE Elkhorn Purging/Sampling Point ID (Well No.) MW-37 Project No. 2017-19
 General Wellhead Condition concrete/SU good Top of Casing Elev. (msl / re) _____ ft. Weather clear, windy, cool

FLUID LEVEL/WELL DEPTH MEASUREMENTS

Static Water Level (ft btoc) 15.33 TD (ft btoc) 34.01 Previous TD (ft btoc) 34.00 Static Water Level Elev. (msl / re) _____ ft.
 Sediment Thickness _____ ft. Sediment Description _____ Sediment Removal Method _____ Obstructed: Yes / No
 Top of Screen (ft btoc) _____ Screen Length _____ (ft.) x 0.10 _____ maximum drawdown during micropurging
 Measured By line / metal tape Well Headspace Reading (ppm or %) 0 Date/Time 10/25/05

PURGE DATA

Macro Volume Calculations

Well TD 34.01 - Static Water Level 15.33 = Water Column _____ ft. x 0.17 (2 in.) or 0.66 (4 in.) _____ x 3 _____ gallons or _____ x 5 _____ gallons

Micro Volume Calculation

Well TD 34.01 - Static Water Level 15.33 = Water Column 18.68 ft. x 0.00118 = 0.03362 gallons x 3.785 = 0.12727 liters to remove prior to first parameter measurement

Purge Volume	Date	Start Time	Stop Time	Volume (Gallons/Liters)	30% → 3	10%	12	10	Turbidity /pH/Color/ Odor
					Specific MS/cm Conductance	Dissolved Oxygen/Redox	Temperature (°C/°F)	old	
Purge Volume 1	10/30/05	1415	1417-1418	0.35	13.4	5.81 496	15.8	23.4	3.87 clear 12
Purge Volume 2		1419		0.65	13.5	4.75 503	15.7	72.5	3.80 slightly cloudy 12
Purge Volume 3		1420		0.95	13.4	4.12 504	15.6	45.2	3.78 " 11
Purge Volume 4		1421		1.20	13.2	3.79 505	15.4	54.9	3.78 " 11
Purge Volume 5		1422		1.45	13.1	3.64 504	15.3	57.0	3.78 " 11
Purge Volume 6		1423		1.8	12.8	3.59 503	15.3	56.3	3.79 " 11
Purge Volume 7		1424		2.0	12.8	3.62 500	15.2	50.1	3.77 " 11
Purge Volume 8		1425		2.25	12.6	3.66 502	15.2	59.9	3.80 " 11
Purge Volume 9		1426		2.50	12.9	3.72 506	15.1	63.0	3.77 " 11
Total Volume		1427		2.85	12.8	3.75 506	15.1	66.3	3.77 " 11
		1428		3.10	12.9	3.80 507	15.1	62.7	3.78 " 11
		1429		3.35	12.9	3.83 511	15.0	61.9	3.77 " 11

SAMPLING DATA

Sample ID No. MW-37 Date/Time 10/30/05 1433 Sampled By Ch Monte Method Micro purge Preservative HCL Filtered: yes no

FIELD PARAMETERS (After Sample Collection)

Time 1435 Temperature 15.1 (°C) (°F) Specific Conductance 12.9 (µmhos/cm) pH 3.78 (std units)

PURGING/SAMPLING INFORMATION FORM

GENERAL INFORMATION

Site GEPA/LOAR Elkton Purging/Sampling Point ID (Well No.) MW-38 Project No. 2017-19
 General Wellhead Condition S.V. / Concrete good Top of Casing Elev. (msl / re) _____ ft. Weather cold, windy, cloudy

FLUID LEVEL/WELL DEPTH MEASUREMENTS

Static Water Level (ft btoc) 15.95 TD (ft btoc) 36.07 Previous TD (ft btoc) 36.08 Static Water Level Elev. (msl / re) _____ ft.
 Sediment Thickness _____ ft. Sediment Description _____ Sediment Removal Method _____ Obstructed: Yes No
 Top of Screen (ft btoc) _____ Screen Length 15 (ft.) x 0.10 1.5 maximum drawdown during micropurging
 Measured By Eline / Metal tape Well Headspace Reading (ppm or %) 0 ppm Date/Time 10/25/05

PURGE DATA

Macro Volume Calculations

Well TD _____ - Static Water Level _____ = Water Column _____ ft. x 0.17 (2 in.) or 0.66 (4 in.) _____ x 3 _____ gallons or _____ x 5 _____ gallons

Micro Volume Calculation

Well TD 36.07 - Static Water Level 15.95 = Water Column 20.12 ft. x 0.00118 = 0.3621 gallons x 3.785 0.1371 liters to remove prior to first parameter measurement

	Date	Start Time	Stop Time	Volume (Gallons/liters)	Specific Conductance $\frac{mS}{cm}$	Dissolved Oxygen/Redox	Temperature (°C/°F)	Turbidity /pH/Color/ Odor
Purge Volume 1	<u>10/24/05</u>	<u>1741</u>	<u>begin filling</u>	<u>Flow thru well 1742</u>				
Purge Volume 2		<u>1742</u>	<u>1743</u>	<u>1.5</u>	<u>21.8</u>	<u>5.33</u> <u>421</u>	<u>13.1</u>	<u>58.0</u> <u>4.46</u> <u>clear</u> <u>no</u>
Purge Volume 3		<u>1744</u>		<u>.9</u>	<u>21.9</u>	<u>3.24</u> <u>433</u>	<u>13.1</u>	<u>70.3</u> <u>4.38</u> " "
Purge Volume 4		<u>1745</u>		<u>1.3</u>	<u>21.8</u>	<u>2.31</u> <u>445</u>	<u>13.1</u>	<u>82.2</u> <u>4.27</u> " "
Purge Volume 5		<u>1747</u>		<u>2.05</u>	<u>22.0</u>	<u>1.40</u> <u>457</u>	<u>13.1</u>	<u>84.0</u> <u>4.20</u> <u>slightly cloudy</u> <u>no</u>
Purge Volume 6		<u>1748</u>		<u>2.4</u>	<u>22.1</u>	<u>1.23</u> <u>461</u>	<u>13.1</u>	<u>88.9</u> <u>4.15</u> " "
Purge Volume 7		<u>1749</u>		<u>2.7</u>	<u>22.1</u>	<u>1.11</u> <u>471</u>	<u>13.1</u>	<u>93.7</u> <u>4.11</u> " "
Purge Volume 8		<u>1750</u>		<u>3.05</u>	<u>22.2</u>	<u>0.98</u> <u>479</u>	<u>13.2</u>	<u>97.2</u> <u>4.09</u> " "
Purge Volume 9		<u>1751</u>		<u>3.40</u>	<u>22.4</u>	<u>0.95</u> <u>480</u>	<u>13.0</u>	<u>104.1</u> <u>4.08</u> " "
Total Volume		<u>1752</u>		<u>3.60</u>	<u>22.4</u>	<u>0.98</u> <u>482</u>	<u>13.0</u>	<u>107.3</u> <u>4.02</u> <u>slightly cloudy</u> <u>no</u>
		<u>1753</u>		<u>cm</u>	<u>22.4</u>	<u>0.95</u> <u>482</u>	<u>13.0</u>	<u>103.3</u> <u>4.07</u> <u>slightly cloudy</u> <u>no</u>

SAMPLING DATA

Sample ID No. MW-38 Date/Time 10/24/05 1755 Sampled By Challen Method micro purge Preservative HCL Filtered: yes no

FIELD PARAMETERS (After Sample Collection)

Time 1800 Temperature 13.0 (°C) °F _____ Specific Conductance 22.4 $\frac{mS}{cm}$ (µmhos/cm) pH 4.08 (std units)

PURGING/SAMPLING INFORMATION FORM

GENERAL INFORMATION

Site GERMILCAR Purging/Sampling Point ID (Well No.) MW-39 Project No. 2017-15
 General Wellhead Condition FLU/CONCRETE good Top of Casing Elev. (msl / re) _____ ft. Weather clear light breeze
wells/grooves/grooves **FLUID LEVEL/WELL DEPTH MEASUREMENTS**
 Static Water Level (ft btoc) 14.80 TD (ft btoc) 34.28 Previous TD (ft btoc) 34.28 Static Water Level Elev. (msl / re) _____ ft.
 Sediment Thickness _____ ft. Sediment Description _____ Sediment Removal Method _____ Obstructed: Yes (No)
 Top of Screen (ft btoc) _____ Screen Length 20 (ft.) x 0.10 2.0 maximum drawdown during micropurging
 Measured By Eline / Metal Pipe Well Headspace Reading (ppm or %) 0.0 / 100 Date/Time 10/25/05

PURGE DATA

Macro Volume Calculations

Well TD 34.28 - Static Water Level _____ = Water Column _____ ft. x 0.17 (2 in.) or 0.66 (4 in.) _____ x 3 _____ gallons or _____ x 5 _____ gallons

Micro Volume Calculation

Well TD 34.28 - Static Water Level 14.80 = Water Column 19.48 ft. x 0.00118 = 0.03506 gallons x 3.785 0.13271 liters to remove prior to first parameter measurement

Purge Volume	Date	Start Time	Stop Time	Volume (Gallons/liters)	Specific Conductance	Dissolved Oxygen/Redox		Temperature (°C/°F)	Turbidity /pH/Color/ Odor			
						3% → 3 MS/CM	10%		10	10		
Purge Volume 1	11/1/05	1052	1054	1.05	8.0	7.15	459	13.5	161	4.64	sk/dry	6.0
Purge Volume 2			1055	0.35	8.0	7.15	459	13.5	161	4.64	sk/dry	6.0
Purge Volume 3			1056	0.70	7.9	6.04	457	13.3	76.0	4.63	"	"
Purge Volume 4			1057	1.05	7.9	5.25	456	13.3	44.5	4.63	"	"
Purge Volume 5			1058	1.40	7.9	4.90	456	13.4	47.4	4.60	"	"
Purge Volume 6			1059	1.75	7.8	4.80	456	13.4	53.4	4.57	clear	11
Purge Volume 7			1200	2.15	7.9	4.84	457	13.3	50.2	4.53	"	11
Purge Volume 8			1201	2.50	8.0	4.92	457	13.3	48.9	4.52	"	11
Purge Volume 9			1202	2.85	8.1	4.97	457	13.3	50.3	4.50	"	11
Total Volume			1203	3.20	8.1	5.03	457	13.3	44.9	4.50	"	11
			1204	3.55	8.1	5.08	457	13.3	48.1	4.49	"	11
			1205	3.90	8.1	5.13	456	13.3	45.0	4.49	clear	11

SAMPLING DATA

Sample ID No. MW-39 Date/Time 11/1/05 110 Sampled By Ch. Monte Method Micropurge Preservative HCL Filtered: yes (no)

FIELD PARAMETERS (After Sample Collection)

Time 1115 Temperature 13.4 (°C/°F) Specific Conductance 8.0 MS/CM (µmhos/cm) pH 4.49 (std units)

PURGING/SAMPLING INFORMATION FORM

GENERAL INFORMATION

Site GE RAILCAR - Elkton Purging/Sampling Point ID (Well No.) MW-40 Project No. 2017-19
 General Wellhead Condition concrete/S&U good Top of Casing Elev. (msl / re) _____ ft. Weather overcast windy cool

FLUID LEVEL/WELL DEPTH MEASUREMENTS

Static Water Level (ft btoc) 18.94 TD (ft btoc) 47.57 Previous TD (ft btoc) 47.56 Static Water Level Elev. (msl / re) _____ ft.
 Sediment Thickness _____ ft. Sediment Description _____ Sediment Removal Method _____ Obstructed: Yes / (No)
 Top of Screen (ft btoc) _____ Screen Length 20 (ft.) x 0.10 2.0 maximum drawdown during micropurging
 Measured By E. Line / metal tape Well Headspace Reading (ppm or %) 0.9 ppm Date/Time 10/25/05

PURGE DATA

Macro Volume Calculations

Well TD _____ - Static Water Level _____ = Water Column _____ ft. x 0.17 (2 in.) or 0.66 (4 in.) _____ x 3 _____ gallons or _____ x 5 _____ gallons

Micro Volume Calculation

Well TD 47.57 - Static Water Level 18.94 = Water Column 28.63 ft. x 0.00118 = 0.05153 gallons x 3.785 0.1951 liters to remove prior to first parameter measurement

Date	Start Time	Stop Time	Volume (Gallons/liters)	Specific Conductance (µS/cm)	Dissolved Oxygen/Redox	Temperature (°F)	Turbidity / pH / Color / Odor
10/29/05	1646	1646	1646 pump into flow pump	8.8	7.29	13.1	3.5
	1647	1648	0.4	8.8	3.21	13.0	5.6
	1649		0.85	8.8	3.39	13.1	5.27
	1650		1.20	8.8	3.45	13.1	5.17
	1651		1.50	8.8	3.53	13.0	5.12
	1652		1.80	8.8	3.58	13.0	5.07
	1653		2.1	8.8	3.61	13.0	5.04
	1654		2.4	8.8	3.61	13.0	5.02
	1655		2.7	8.8	3.64	13.0	5.00
	1656		3.0	8.8	3.63	13.0	4.99
							Clear

SAMPLING DATA

Sample ID No. MW-40 Date/Time 10/29/05 1700 Sampled By CPM/interco Method micro purge Preservative HCL Filtered: yes no

FIELD PARAMETERS (After Sample Collection)

Time 1705 Temperature 13.1 (°C) °F _____ Specific Conductance 8.8 (µmhos/cm) pH 5.00 (std units)

PURGING/SAMPLING INFORMATION FORM

GENERAL INFORMATION

Site GERALDAR-Elkton Purging/Sampling Point ID (Well No.) MW-41 Project No. 2077-19
 General Wellhead Condition S.U. / Concrete good Top of Casing Elev. (msl / re) _____ ft. Weather overcast, windy, cool

FLUID LEVEL/WELL DEPTH MEASUREMENTS

Static Water Level (ft btoc) 16.50 TD (ft btoc) 38.83 Previous TD (ft btoc) 38.82 Static Water Level Elev. (msl / re) _____ ft.
 Sediment Thickness _____ ft. Sediment Description _____ Sediment Removal Method _____ Obstructed: Yes No
 Top of Screen (ft btoc) _____ Screen Length 20 (ft.) x 0.10 2.0 maximum drawdown during micropurging
 Measured By Eline / mtd Well Headspace Reading (ppm or %) 0.0 ppm Date/Time 10/25/05

PURGE DATA

Macro Volume Calculations

Well TD _____ - Static Water Level _____ = Water Column _____ ft. x 0.17 (2 in.) or 0.66 (4 in.) _____ x 3 _____ gallons or _____ x 5 _____ gallons

Micro Volume Calculation

Well TD 38.33 - Static Water Level 16.50 = Water Column 22.53 ft. x 0.00118 = 0.0406 gallons x 3.785 0.153 liters to remove prior to first parameter measurement

* MS + MSN also

Purge Volume	Date	Start Time	Stop Time	Volume (Gallons/liters)	Specific Conductance	Dissolved Oxygen/Redox	Temperature (°C/°F)	Turbidity / pH / Color / Odor	
								Turbidity	pH / Color / Odor
Purge Volume 1	10/24/05	1515	1517	0.4	25.0	6.93	316	14.3	106.0 5.83 clear no
Purge Volume 2		1517	1518	0.4	24.9	6.33	324	14.3	108.0 5.62 " "
Purge Volume 3		1519		0.7	25.0	5.95	334	14.3	99.4 5.49 " "
Purge Volume 4		1520		1.20	24.5	5.73	342	14.3	101.0 5.36 " "
Purge Volume 5		1521		1.60	24.5	5.56	351	14.2	106.0 5.25 " "
Purge Volume 6		1522		1.90	24.5	5.33	360	14.3	115.0 5.17 " "
Purge Volume 7		1524		2.40	24.4	5.29	364	14.2	119.0 5.17 " "
Purge Volume 8		1525		2.80	24.4	5.22	366	14.2	120.0 5.16 " "
Purge Volume 9		1526		3.15	24.4	5.15	368	14.2	123 5.11 " "
Total Volume		1527		3.45	24.4	5.11	371	14.2	126 5.09 " "
		1528		3.8					

SAMPLING DATA

Sample ID No. MW-41 Date/Time 10/24/05 1530 Sampled By C. Montano Method micropurge Preservative HCL Filtered: yes no

FIELD PARAMETERS (After Sample Collection)

Time 10/24/05 1540 Temperature 14.3 (°C) (°F) _____ Specific Conductance 2463 (µmhos/cm) (ms/cm) pH 5.10 (std units)

PURGING/SAMPLING INFORMATION FORM

GENERAL INFORMATION

Site GE RILCOE EIKENM Purging/Sampling Point ID (Well No.) MW-42 Project No. 2017-19
 General Wellhead Condition S.V. / concrete pool Top of Casing Elev. (msl / re) _____ ft. Weather clear, cool, windy
154°F (forecast)

FLUID LEVEL/WELL DEPTH MEASUREMENTS

Static Water Level (ft btoc) 18.22 TD (ft btoc) 38.30 Previous TD (ft btoc) 38.29 Static Water Level Elev. (msl / re) _____ ft.
 Sediment Thickness _____ ft. Sediment Description _____ Sediment Removal Method _____ Obstructed: Yes / No
 Top of Screen (ft btoc) _____ Screen Length 20 (ft.) x 0.10 _____ maximum drawdown during micropurging
 Measured By climen / metal tape Well Headspace Reading (ppm or %) 264 ppm Date/Time 10/25/05

PURGE DATA

Macro Volume Calculations

Well TD _____ - Static Water Level _____ = Water Column _____ ft. x 0.17 (2 in.) or 0.66 (4 in.) _____ x 3 _____ gallons or _____ x 5 _____ gallons

Micro Volume Calculation

Well TD 38.30 - Static Water Level 18.22 = Water Column 20.08 ft. x 0.00118 = 0.02369 gallons x 3.785 0.1140 liters to remove prior to first parameter measurement

Purge Volume	Date	Start Time	Stop Time	Volume (Gallons/liters)	Specific Conductance (MS/cm)	Dissolved Oxygen/Redox	Temperature (C/F)	Turbidity / pH / Color / Odor				
								St (Clac-2)	NO			
Purge Volume 1	10/29/05	1315	1315	0.5	1315.30	12.93	326	13.7	110	6.11	"	"
Purge Volume 2		1316	1317	0.5	27.6	17.79	389	13.5	99.5	6.09	"	"
Purge Volume 3		1319	1320	1.4	25.5	13.56	354	13.6	89.6	6.13	"	"
Purge Volume 4		1321	1322	2.1	24.5	14.27	361	13.5	84.0	6.16	"	"
Purge Volume 5		1322	1323	2.4	22.9	15.54	371	13.5	83.4	6.18	"	"
Purge Volume 6		1324	1325	2.7	20.9	16.54	378	13.4	77.5	6.19	"	"
Purge Volume 7		1325	1326	3.0	20.4	16.41	385	13.4	76.6	6.20	"	"
Purge Volume 8		1326	1327	3.4	19.4	17.01	387	13.4	70.0	6.22	"	"
Purge Volume 9		1327		3.8	19.8							
Total Volume												

SAMPLING DATA

Sample ID No. MW-42 Date/Time 10/29/05 1330 Sampled By Chlanten Method Micropurge Preservative HCL Filtered: yes / no

FIELD PARAMETERS (After Sample Collection)

Time 1335 Temperature 13.5 (C) °F Specific Conductance 1907 (umhos/cm) pH 6.21 (std units)
MS/cm

PURGING/SAMPLING INFORMATION FORM

GENERAL INFORMATION

Site Elkton, MD - GERRS

Purging/Sampling Point ID (Well No.) MW-43

Project No. 2017

General Wellhead Condition Good

Top of Casing Elev. (msl) (fe) 59.08

ft. Weather 45°F, mostly sunny

FLUID LEVEL/WELL DEPTH MEASUREMENTS

Static Water Level (ft btoc) 19.84 TD (ft btoc) 33.11 Previous TD (ft btoc) 33.11 Static Water Level Elev. (msl) (fe) 39.24 ft.

Sediment Thickness NA ft. Sediment Description NA Sediment Removal Method NA Obstructed: Yes No

Top of Screen (ft btoc) 22.01 Screen Length 10.6 (ft.) x 0.10 1.06 maximum drawdown during micropurging = 20.90 ft BTOC

Measured By MRW Well Headspace Reading (ppm or %) 0 Date/Time 10.26.05

PURGE DATA

Macro Volume Calculations

Well TD _____ - Static Water Level _____ = Water Column _____ ft. x 0.17 (2 in.) or 0.66 (4 in.) _____ x 3 _____ gallons or _____ x 5 _____ gallons

Micro Volume Calculation

Well TD 33.11 - Static Water Level 19.84 = Water Column 13.27 ft. x 0.00118 = 0.01566 gallons x 3.785 = 0.05927 liters to remove prior to first parameter measurement = 59.27 mL

	Date	Start Time	Stop Time	Volume (Gallons/Liters) (MW)	Specific Conductance (ms/cm)	Dissolved Oxygen/Redox	Temperature (C/F)	Turbidity /pH/Color/ Odor
Purge Volume 1	10.29.05	1050		0	0.324	0.23 / -266	12.82	157 / 5.58 / dk. grey / slight
Purge Volume 2		1052		800	0.321	0.19 / -270	12.89	147 / 5.52 / ↓
Purge Volume 3		1054		1600	0.321	0.17 / -271	12.95	109 / 5.50 / ↓
Purge Volume 4		1056		2400	0.321	0.15 / -277	12.95	(MW) 1082 / 5.49 / cloudy
Purge Volume 5		1058		3200	0.320	0.15 / -281	12.95	92 / 5.42 ↓
Purge Volume 6	✓	1100		4000	0.319	0.14 / -279	12.97	77 / 5.46 ↓
Purge Volume 7								
Purge Volume 8								
Purge Volume 9								
Total Volume								

SAMPLING DATA

Sample ID No. MW-43 Date/Time 10.29.05/1105 Sampled By MRW Method low flow Preservative HCl Filtered: yes no

FIELD PARAMETERS (After Sample Collection)

Time 1112 Temperature 13.01 (°C/°F) Specific Conductance 0.318 (ms/cm) (µmhos/cm) pH 5.35 (std units)

PURGING/SAMPLING INFORMATION FORM

GENERAL INFORMATION

Site GERAILCAR Elkhead Purging/Sampling Point ID (Well No.) MW-44 Project No. 2017-19
 General Wellhead Condition SW / concrete floor Top of Casing Elev. (msl / re) _____ ft. Weather clear, windy, cool
55°F forecast

FLUID LEVEL/WELL DEPTH MEASUREMENTS

Static Water Level (ft btoc) 17.34 TD (ft btoc) 40.31 Previous TD (ft btoc) 40.31 Static Water Level Elev. (msl / re) _____ ft.
 Sediment Thickness _____ ft. Sediment Description _____ Sediment Removal Method _____ Obstructed: Yes / No
 Top of Screen (ft btoc) _____ Screen Length 20 (ft.) x 0.10 2.0 maximum drawdown during micropurging
 Measured By Eline / metal tape Well Headspace Reading (ppm or %) 0 ppm Date/Time 10/25/05

PURGE DATA

Macro Volume Calculations

Well TD _____ - Static Water Level _____ = Water Column _____ ft. x 0.17 (2 in.) or 0.66 (4 in.) _____ x 3 _____ gallons or _____ x 5 _____ gallons

Micro Volume Calculation

Well TD 40.31 - Static Water Level 17.31 = Water Column _____ ft. x 0.00118 = _____ gallons x 3.785 _____ liters to remove prior to first parameter measurement

Purge Volume	Date	Start Time	Stop Time	Volume (Gallons/liters)	Specific Conductance	Dissolved Oxygen/Redox	Temperature (°C/°F)	Turbidity /pH/Color/ Odor
Purge Volume 1	10/29/05	1230	1231	1.4	12.7	12.03/286	13.7	1132 7.11 cloudy NO
Purge Volume 2		1233	1232	1.8	12.7	12.91 288	13.6	96.8 6.79 " "
Purge Volume 3		1234		1.2	11.9	13.27 293	13.5	118 6.69 clear "
Purge Volume 4		1236		2.0	11.0	13.31 302	13.5	129 6.5 " "
Purge Volume 5		1237		2.5	11.5	13.04 309	13.4	130 6.46 sticky "
Purge Volume 6		1238		2.9	10.1	12.76 311	13.4	131 6.41 " "
Purge Volume 7		1239		3.3	9.9	12.37 318	13.4	135 6.40 " "
Purge Volume 8		1240		3.7	9.7	12.08 322	13.4	137 6.39 sticky "
Purge Volume 9								
Total Volume								

SAMPLING DATA

Sample ID No. MW-44 Date/Time 10/29/05 1245 Sampled By Ch Montana Method Micro purge Preservative HCl Filtered: yes no

FIELD PARAMETERS (After Sample Collection)

Time 1249 Temperature 13.5 (°C) (°F) 9.9 Specific Conductance 9.9 (µmhos/cm) 9.9 pH 6.39 (std units)

PURGING/SAMPLING INFORMATION FORM

GENERAL INFORMATION

Site EIKTON MD GERS Purging/Sampling Point ID (Well No.) OSMW-2 Project No. 2017
 General Wellhead Condition Good Top of Casing Elev. (msl) re 62.42 ft. Weather 50°F, partly cloudy

FLUID LEVEL/WELL DEPTH MEASUREMENTS

Static Water Level (ft btoc) 22.64 TD (ft btoc) 35.98 Previous TD (ft btoc) 35.09 Static Water Level Elev. (msl) re 39.78 ft.
 Sediment Thickness NA ft. Sediment Description NA Sediment Removal Method NA Obstructed: Yes / (No)
 Top of Screen (ft btoc) 21.48 Screen Length 13.34 (ft.) x 0.10 1.33 maximum drawdown during micropurging = 23.97 ft BTOC
 Measured By MRW H₂O column Well Headspace Reading (ppm or %) 25.1 Date/Time 10.26.05

PURGE DATA

Macro Volume Calculations

Well TD _____ - Static Water Level _____ = Water Column _____ ft. x 0.17 (2 in.) or 0.66 (4 in.) _____ x 3 _____ gallons or _____ x 5 _____ gallons

Micro Volume Calculation

Well TD 35.98 - Static Water Level 22.64 = Water Column 13.34 ft. x 0.00118 = 0.01574 gallons x 3.785 0.05958 liters to remove prior to first parameter measurement
 = 59.58 mL

	Date	Start Time	Stop Time	Volume (mL) (Gallons/Liters) <u>MRW</u>	Specific Conductance (ms/cm)	Dissolved Oxygen/ Redox	Temperature (°F)	Turbidity /pH/Color/ Odor
Purge Volume 1	<u>10.28.05</u>	<u>1145</u>		<u>0</u>	<u>0.413</u>	<u>0.72 / -250</u>	<u>12.78</u>	<u>11 / 6.56 / cloudy / slight</u>
Purge Volume 2		<u>1147</u>		<u>400</u>	<u>0.415</u>	<u>0.53 / -258</u>	<u>12.79</u>	<u>98 / 6.57 /</u>
Purge Volume 3		<u>1149</u>		<u>800</u>	<u>0.414</u>	<u>0.41 / -272</u>	<u>12.85</u>	<u>85 / 6.60 /</u>
Purge Volume 4		<u>1151</u>		<u>1200</u>	<u>0.415</u>	<u>0.39 / -275</u>	<u>12.86</u>	<u>81 / 6.65</u>
Purge Volume 5		<u>1153</u>		<u>1600</u>	<u>0.415</u>	<u>0.34 / -278</u>	<u>12.86</u>	<u>82 / 6.70</u>
Purge Volume 6		<u>1155</u>		<u>2000</u>	<u>0.415</u>	<u>0.31 / -278</u>	<u>12.90</u>	<u>84 / 6.65</u>
Purge Volume 7		<u>1157</u>		<u>2400</u>	<u>0.415</u>	<u>0.28 / -285</u>	<u>12.95</u>	<u>85 / 6.64</u>
Purge Volume 8		<u>1200</u>	<u>1159</u>	<u>2800</u>	<u>0.415</u>	<u>0.26 / -284</u>	<u>12.98</u>	<u>84 / 6.64</u>
Purge Volume 9		<u>1203</u>	<u>1201</u>	<u>3200</u>	<u>0.416</u>	<u>0.25 / -286</u>	<u>12.99</u>	<u>81.5 / 6.60</u>
Total Volume		<u>1203</u>		<u>3600</u>	<u>0.417</u>	<u>0.24 / -291</u>	<u>12.98</u>	<u>74.5 / 6.63</u>

SAMPLING DATA

Sample ID No. OSMW-2 Date/Time 10.28.05 / 1210 Sampled By MRW Method low flow Preservative HCl Filtered: yes / (no)

FIELD PARAMETERS (After Sample Collection)

Time 1213 Temperature 13.00 (°C) / (°F) Specific Conductance 0.421 (ms/cm) / (µmhos/cm) pH 6.63 (std units)

PURGING/SAMPLING INFORMATION FORM

GENERAL INFORMATION

Site Elkton, MD GERRS Purging/Sampling Point ID (Well No.) OSMW-3 Project No. 2017
 General Wellhead Condition GOOD Top of Casing Elev. (msl/re) 55.93 ft. Weather ~40°F, dark

FLUID LEVEL/WELL DEPTH MEASUREMENTS

Static Water Level (ft btoc) 17.21 TD (ft btoc) 39.14 Previous TD (ft btoc) 39.27 Static Water Level Elev. (msl/re) 38.72 MRW
 Sediment Thickness 0.13 NA (mw) Sediment Description NA Sediment Removal Method NA Obstructed: Yes / No
 Top of Screen (ft btoc) 20.64 Screen Length 19 (ft.) x 0.10 1.9 maximum drawdown during micropurging = 19.11
 Measured By MRW Well Headspace Reading (ppm or %) 0.7 Date/Time 10-26-05

PURGE DATA

Macro Volume Calculations

Well TD _____ - Static Water Level _____ = Water Column _____ ft. x 0.17 (2 in.) or 0.66 (4 in.) _____ x 3 _____ gallons or _____ x 5 _____ gallons

Micro Volume Calculation

Well TD 39.14 - Static Water Level 17.21 = Water Column 21.93 ft. x 0.00118 = 0.02588 gallons x 3.785 0.0795 liters to remove prior to first parameter measurement
≈ 98 mL

Purge Volume	Date	Start Time	Stop Time	Volume (Gallons/liters) (mw)	Specific Conductance (ms/cm)	Dissolved Oxygen/Redox	Temperature (°C/°F)	Turbidity /pH/Color/ Odor
Purge Volume 1	10-27-05	1905		0	0.318	1.34 / -172	12.17	121 / 5.90 / cloudy / non
Purge Volume 2		1908		300	0.319	0.74 / -195	12.29	111 / 5.93
Purge Volume 3		1911		600	0.319	0.53 / -211	12.36	88.6 / 5.90
Purge Volume 4		1914		900	0.320	0.45 / -222	12.24	74.9 / 5.93
Purge Volume 5		1917		1200	0.319	0.40 / -228	12.21	70.0 / 5.94
Purge Volume 6		1920		1500	0.319	0.37 / -232	12.25	65.5 / 5.95
Purge Volume 7		1923		1800	0.319	0.33 / -236	12.25	56.9 / 5.95
Purge Volume 8		1926		2100	0.319	0.32 / -238	12.27	57.3 / 5.95
Purge Volume 9	✓	1929		2400	0.319	0.31 / -241	12.25	56.5 / 5.94
Total Volume								

SAMPLING DATA

Sample ID No. OSMW-3 Date/Time 10-27-05 / 1940 Sampled By MRW Method low flow Preservative HCl Filtered: yes /

FIELD PARAMETERS (After Sample Collection)

Time 1941 Temperature 12.05 (°C) (°F) Specific Conductance 0.318 (ms/cm) (mw) pH 5.97 (std units)

PURGING/SAMPLING INFORMATION FORM

GENERAL INFORMATION

Site GE (Elkton) RAILROAD Purging/Sampling Point ID (Well No.) OSM-4 Project No. 2017-19
 General Wellhead Condition rip top from storm water drainage around base of well, covered Top of Casing Elev. (msl / re) 40.26 ft. Weather clear, slight breeze
winds/vine cool 55°F
FLUID LEVEL/WELL DEPTH MEASUREMENTS
 Static Water Level (ft btoc) 9.03 TD (ft btoc) 32.18 Previous TD (ft btoc) 32.17 Static Water Level Elev. (msl / re) _____ ft.
 Sediment Thickness NONE ft. Sediment Description _____ Sediment Removal Method _____ Obstructed: Yes / No
 Top of Screen (ft btoc) 12.12 Screen Length 19.00 (ft.) x 0.10 1.9 maximum drawdown during micropurging
 Measured By CAUSTON Well Headspace Reading (ppm or %) 0 ppm Date/Time 10/25/05

PURGE DATA

Macro Volume Calculations

Well TD 32.18 - Static Water Level _____ = Water Column _____ ft. x 0.17 (2 in.) or 0.66 (4 in.) _____ x 3 _____ gallons or _____ x 5 _____ gallons

Micro Volume Calculation

Well TD 32.18 - Static Water Level 9.03 = Water Column 23.15 ft. x 0.00118 = 0.04167 gallons x 3.785 0.158 liters to remove prior to first parameter measurement

Purge Volume	Date	Start Time	Stop Time	Volume (Gallons/liters)	Specific Conductance <u>MS/cm</u>	Dissolved Oxygen/Redox	Temperature (°C/°F)	Turbidity /pH/Color/ Odor
Purge Volume 1	<u>10/25/05</u>	<u>1308</u>	<u>1310</u>	<u>1</u>	<u>22.3</u>	<u>4.87 2.92</u>	<u>16.3</u>	<u>16.3 4.24 cloudy no</u>
Purge Volume 2		<u>1312</u>		<u>2</u>	<u>22.8</u>	<u>3.41 2.95</u>	<u>16.5</u>	<u>17.6 4.25 " "</u>
Purge Volume 3		<u>1314</u>		<u>2.5</u>	<u>23.0</u>	<u>3.03 2.98</u>	<u>16.5</u>	<u>105.5 4.25 " "</u>
Purge Volume 4		<u>1316</u>		<u>3.0</u>	<u>23.1</u>	<u>2.81 3.00</u>	<u>16.7</u>	<u>102.4 4.22 clear "</u>
Purge Volume 5		<u>1318</u>		<u>3.5</u>	<u>23.2</u>	<u>2.70 3.00</u>	<u>16.6</u>	<u>102.2 4.26 " "</u>
Purge Volume 6		<u>1320</u>		<u>4.0</u>	<u>23.6</u>	<u>2.62 3.02</u>	<u>16.7</u>	<u>105.3 4.27 " "</u>
Purge Volume 7								
Purge Volume 8								
Purge Volume 9								
Total Volume								

Controller down/need repair after IV OA

SAMPLING DATA

Sample ID No. _____ Date/Time _____ Sampled By SKAT Method _____ Preservative _____ Filtered: yes / no

FIELD PARAMETERS (After Sample Collection)

Time _____ Temperature _____ (°C / °F) Specific Conductance _____ (µmhos/cm) pH _____ (std units)

PURGING/SAMPLING INFORMATION FORM

GENERAL INFORMATION

Site GE RAILCAR ELKton Purging/Sampling Point ID (Well No.) OSMW-4 (second offset) Project No. 2017-05
 General Wellhead Condition good concrete riprap covering ground Top of Casing Elev. (msl / re) _____ ft. Weather clear breeze cool = 50°F

FLUID LEVEL/WELL DEPTH MEASUREMENTS

Static Water Level (ft btoc) 9.03 TD (ft btoc) 32.18 Previous TD (ft btoc) 32.17 Static Water Level Elev. (msl / re) _____ ft.
 Sediment Thickness _____ ft. Sediment Description _____ Sediment Removal Method _____ Obstructed: Yes No

Top of Screen (ft btoc) 12.12 Screen Length 19 (ft.) x 0.10 1.9 maximum drawdown during micropurging
 Measured By Chad Montan - E-line Well Headspace Reading (ppm or %) _____ Date/Time _____
water top

PURGE DATA

Macro Volume Calculations

Well TD _____ - Static Water Level _____ = Water Column _____ ft. x 0.17 (2 in.) or 0.66 (4 in.) _____ x 3 _____ gallons or _____ x 5 _____ gallons

Micro Volume Calculation

Well TD 32.18 - Static Water Level 9.03 = Water Column 23.07 ft. x 0.00118 = 27.415 gallons x 3.785 = 103.7 liters to remove prior to first parameter measurement

Date	Start Time	Stop Time	Volume (Gallons/liters)	Specific Conductance ^{3%} <u>AS/cm</u>	Dissolved Oxygen/Redox ^{10%}	Temperature (°C/°F) ^{1.2}	Turbidity ^{±10} / pH/Color/ Odor ^{1.0}
10/27/05	1710	1711	0.5	23.7	5.50 304	15.4	45.9 4.32 clear 10
	1712		1.0	23.7	4.65 308	15.7	45.7 4.34 " "
	1713		1.5	24.0	3.61 313	16.0	41.9 4.31 " "
	1714		2	24.0	3.49 316	16.1	37.9 4.30 " "
	1715		2.5	24.2	2.99 316	16.1	34.7 4.28 " "
	1716		3	24.4	2.79 316	16.2	30.8 4.27 " "
	1717		3.5	24.5	2.69 318	16.2	29.7 4.27 " "
	1718		4.0	24.6	2.44 320	16.2	27.9 4.27 clear "
	1719		4.5	24.7	2.51 322	16.2	25.7 4.27 clear "
Total Volume							

SAMPLING DATA

Sample ID No. OSMW-4 Date/Time 10/27/05 / 1725 Sampled By Chad Montan Method Micropurge Preservative HCL Filtered: yes no

FIELD PARAMETERS (After Sample Collection)

Time 1725 Temperature 16.3 (°C) °F _____ Specific Conductance 24.6 ^{mS/cm} (µmhos/cm) pH 4.26 (std units)
 TURB 23.1 DO

PURGING/SAMPLING INFORMATION FORM

GENERAL INFORMATION

Site SEPHICAR C-12101 Purging/Sampling Point ID (Well No.) OSMW-5 Project No. 2017-19
 General Wellhead Condition pool / stick up good Top of Casing Elev. (msl / re) _____ ft. Weather cool / cloudy breezy

Static Water Level (ft btoc) 11.86 TD (ft btoc) 37.45 Previous TD (ft btoc) 37.50 Static Water Level Elev. (msl / re) _____ ft.

Sediment Thickness 0 ft. Sediment Description _____ Sediment Removal Method _____ Obstructed: Yes / No

Top of Screen (ft btoc) 17.24 Screen Length 19 (ft.) x 0.10 1.9 maximum drawdown during micropurging

Measured By C. Montano DTW-Eline Well Headspace Reading (ppm or %) 0.0 Date/Time 10/25/05
metal tape

PURGE DATA

Macro Volume Calculations

Well TD _____ - Static Water Level _____ = Water Column _____ ft. x 0.17 (2 in.) or 0.66 (4 in.) _____ x 3 _____ gallons or _____ x 5 _____ gallons

Micro Volume Calculation

Well TD 37.45 - Static Water Level 11.86 = Water Column 25.6 ft. x 0.00118 = 0.0461 gallons x 3.785 0.175 liters to remove prior to first parameter measurement

	Date	Start Time	Stop Time	Volume (Gallons/liters)	Specific Conductance ^{ms/cm}	Dissolved Oxygen/Redox	Temperature (°C/°F)	Turbidity /pH/Color/ Odor			
Purge Volume 1	10/27/05	1755	1757	0.5 ^{adjuster}	25.6	3.86 / 83	16.1	90.8	5.45	initial cloudy clean	no
Purge Volume 2		1758		1	26.3	3.12 / 76	16.1	103.0	5.48	clean	no
Purge Volume 3		1759		1.5	26.8	2.41 / 71	16.2	77.8	5.49	"	"
Purge Volume 4		1800		2	26.9	2.08 / 68	16.2	64.8	5.51	"	11
Purge Volume 5		1801		2.5	27.1	1.59 / 65	16.4	54.4	5.52	"	11
Purge Volume 6		1802		3	27.0	1.41 / 64	16.5	53.4	5.52	"	11
Purge Volume 7		1803		3.5	27.0	1.29 / 62	16.5	49.5	5.53	"	"
Purge Volume 8		1804		4	27.1	1.19 / 60	16.5	49.8	5.53	"	"
Purge Volume 9		1805		4.5	27.0	1.13 / 60	16.6	46.6	5.53	"	"
Total Volume											

SAMPLING DATA

Sample ID No. OSMW-5 Date/Time 10/27/05 1808 Sampled By C. Montano Method Micro purge Preservative HCL Filtered: yes no

FIELD PARAMETERS (After Sample Collection)

Time 1211 Temperature 16.5 (°C) (°F) Specific Conductance MS/cm 27.3 (µmhos/cm) pH 5.54 (std units)

PURGING/SAMPLING INFORMATION FORM

GENERAL INFORMATION

Site GE Elkan MO Purging/Sampling Point ID (Well No.) OSMU-06 Project No. 2017-19
 General Wellhead Condition good condition Top of Casing Elev. (msl / re) 47.73 ft. Weather clear sky
hillsides good (10-50°F forecast)

FLUID LEVEL/WELL DEPTH MEASUREMENTS

Static Water Level (ft btoc) 13.62 TD (ft btoc) 41.25 Previous TD (ft btoc) 41.25 Static Water Level Elev. (msl / re) _____ ft.
 Sediment Thickness NONE ft. Sediment Description _____ Sediment Removal Method _____ Obstructed: Yes / No
 Top of Screen (ft btoc) 21.26 Screen Length 19.00 (ft.) x 0.10 1.9 maximum drawdown during micropurging
 Measured By CMonteiro Well Headspace Reading (ppm or %) 00 ppm Date/Time 10/25/05

PURGE DATA

Macro Volume Calculations

Well TD 41.25 - Static Water Level 13.62 = Water Column _____ ft. x 0.17 (2 in.) or 0.66 (4 in.) _____ x 3 _____ gallons or _____ x 5 _____ gallons

Micro Volume Calculation

Well TD 41.25 - Static Water Level 13.62 = Water Column 27.63 ft. x 0.00118 = 0.0326 gallons x 3.785 = 0.123 liters to remove prior to first parameter measurement

Purge Volume	Date	Start Time	Stop Time	Volume (Gallons/Liters)	Specific Conductance (µS/cm)	Dissolved Oxygen/Redox (µg/l)	Temperature (°C/°F)	±10 ±2			
								Turbidity	pH	Color	Odor
Purge Volume 1	10/27/05	10:19	10:21	1 L	9.9	4.80	13.8	135	5.08	clear	no odor
Purge Volume 2		10:23		2 L total	9.7	3.93	13.8	147	5.06	"	"
Purge Volume 3		10:26	10:28	3 L total	9.7	4.77	13.7	143	5.08	slightly	"
Purge Volume 4		10:30		4 L "	9.6	5.11	13.8	135	5.08	slightly	"
Purge Volume 5		10:32		5 "	9.6	5.42	13.8	103	5.08	"	"
Purge Volume 6		10:34		6 "	9.7	5.55	13.7	125	5.08	"	"
Purge Volume 7		10:36		7 "	9.6	5.70	13.7	130	5.08	"	"
Purge Volume 8		10:38		8 "	9.5	5.72	13.7	137	5.08	"	"
Purge Volume 9		10:40		9 "	9.6	5.95	13.7	132	5.08	slightly	ND
Total Volume											

* stopped later 10:28 & 10:28 to take w/ fence contractor

SAMPLING DATA

Sample ID No. OSMU-6 Date/Time 10:42 / 10/27/05 Sampled By CMonteiro Method micro purge Preservative HCL Filtered: yes

FIELD PARAMETERS (After Sample Collection)

Time 1045 Temperature 13 °C/°F Specific Conductance 9.7 (µmhos/cm) pH 5.07 (std units)
 MS/cm

PURGING/SAMPLING INFORMATION FORM

GENERAL INFORMATION

Site EIKton, MD GERRS Purging/Sampling Point ID (Well No.) OSMW-11 Project No. 2017
 General Wellhead Condition Good Top of Casing Elev. (msl) re not surveyed yet ft. Weather 50°F, mostly cloudy

FLUID LEVEL/WELL DEPTH MEASUREMENTS

Static Water Level (ft btoc) 18.12 TD (ft btoc) 36.83 Previous TD (ft btoc) NA Static Water Level Elev. (msl) re NA ft.
 Sediment Thickness NA ft. Sediment Description NA Sediment Removal Method NA Obstructed: Yes / (No) (No)
 Top of Screen (ft btoc) 16.68 Screen Length MRW 9.65 (ft.) x 0.10 1.87 maximum drawdown during micropurging = 19.99
 Measured By MRW H₂O column 18.71 Well Headspace Reading (ppm or %) 1.5 Date/Time 10-26-05

PURGE DATA

Macro Volume Calculations

Well TD _____ - Static Water Level _____ = Water Column _____ ft. x 0.17 (2 in.) or 0.66 (4 in.) _____ x 3 _____ gallons or _____ x 5 _____ gallons

Micro Volume Calculation

Well TD 36.83 - Static Water Level 18.12 = Water Column 18.71 ft. x 0.00118 = 0.02208 gallons x 3.785 0.08356 liters to remove prior to first parameter measurement

	Date	Start Time	Stop Time	Volume (gallons/liters)	Specific Conductance (mS/cm)	Dissolved Oxygen/Redox	Temperature (°F)	Turbidity /pH/Color/ Odor
Purge Volume 1	10-27-05	1730		0	0.225	1.80 / -98	14.06	818 / 5.69 / brown / none
Purge Volume 2		1732		300	0.232	0.92 / -122	14.04	389 / 5.73 / grey /
Purge Volume 3		1734		600	0.239	0.66 / -142	14.02	324 / 5.78 / " /
Purge Volume 4		1736		900	0.242	0.57 / -145	14.00	222 / 5.79 / cloudy
Purge Volume 5		1738		1200	0.242	0.54 / -154	14.02	198 / 5.80 /
Purge Volume 6		1740		1500	0.242	0.50 / -160	14.02	158 / 5.79 /
Purge Volume 7		1742		1800	0.243	0.45 / -162	14.04	152 / 5.79
Purge Volume 8		1744		2100	0.244	0.43 / -168	13.99	126 / 5.81
Purge Volume 9		1746		2400	0.242	0.41 / -171	13.99	118 / 5.80
Total Volume		1748		2700	0.239	0.40 / -172	13.99	108 / 5.79

SAMPLING DATA

Sample ID No. OSMW-11 Date/Time 10-27-05 / 1750 Sampled By MRW Method low flow Preservative HCl Filtered: yes / (no) (no)

FIELD PARAMETERS (After Sample Collection)

Time 1755 Temperature 13.99 (°C) / (°F) (°C) Specific Conductance 0.239 (mS/cm) / (µmhos/cm) (mS/cm) pH 5.78 (std units)

PURGING/SAMPLING INFORMATION FORM

GENERAL INFORMATION

Site Elkton, MD - GERES Purging/Sampling Point ID (Well No.) OSMW-12 Project No. 2017
 General Wellhead Condition Good Top of Casing Elev. (msl) re not surveyed yet ft. Weather 50°F, partly cloudy

FLUID LEVEL/WELL DEPTH MEASUREMENTS

Static Water Level (ft btoc) 15.89 TD (ft btoc) 40.42 Previous TD (ft btoc) NA Static Water Level Elev. (msl) re NA ft.
 Sediment Thickness NA ft. Sediment Description NA Sediment Removal Method NA Obstructed: Yes / No (No)
 Top of Screen (ft btoc) 20.27 Screen Length 19.65 (ft.) x 0.10 1.9 maximum drawdown during micropurging = 17.79 ft BTOC
 Measured By MRW Well Headspace Reading (ppm) or % 9.4 Date/Time 10.26.05

PURGE DATA

MW Well TD 40.42 - Static Water Level 15.89 = Water Column 24.53 ft. x 0.17 (2 in.) or 0.66 (4 in.) _____ x 3 _____ gallons or _____ x 5 _____ gallons

Micro Volume Calculation

Well TD 40.42 - Static Water Level 15.89 = Water Column 24.53 ft. x 0.00118 = 0.02895 gallons x 3.785 0.1096 liters to remove prior to first parameter measurement
 = 109.6 mL

	Date	Start Time	Stop Time	<u>MW</u> Volume (ML) (Gallons/liters)	Specific Conductance (ms/cm)	Dissolved Oxygen/Redox	Temperature (°C/°F)	Turbidity /pH/Color/ Odor
Purge Volume 1	10.27.05	1240		0	0.405	1.31 / -24	16.06	126 / 6.24 / lt. brown / none
Purge Volume 2		1243		300	0.411	0.83 / -31	15.75	85.0 / 6.26 /
Purge Volume 3		1246		600	0.413	0.60 / -44	15.72	69.5 / 6.27 /
Purge Volume 4		1249		900	0.414	0.42 / -62	15.56	55.1 / 6.26 / ↓
Purge Volume 5		1252		1200	0.414	0.36 / -68	15.85	47.0 / 6.26 / clear /
Purge Volume 6		1255		1500	0.414	0.31 / -79	15.88	44.3 / 6.30
Purge Volume 7		1258		1800	0.414	0.29 / -84	15.47	46.7 / 6.25
Purge Volume 8		1301		2100	0.413	0.26 / -101	15.44	42.7 / 6.25
Purge Volume 9		1304		2400	0.413	0.23 / -107	15.46	48.8 / 6.28
Total Volume	✓	1307		2700	0.412	0.22 / -115	15.40	46.1 / 6.24 ↓

SAMPLING DATA

Sample ID No. OSMW-12 Date/Time 10.27.05/1310 Sampled By MRW Method low flow Preservative HCl Filtered: yes / No (No)

FIELD PARAMETERS (After Sample Collection)

Time 1315 Temperature 15.41 (°C) / °F Specific Conductance 0.412 (ms/cm) pH 6.26 (std units)

PURGING/SAMPLING INFORMATION FORM

GENERAL INFORMATION

Site GERALD CAR ELKH Purging/Sampling Point ID (Well No.) OSUW-13 Project No. 2017-19
 General Wellhead Condition good no cracks Top of Casing Elev. (msl / re) _____ ft. Weather clear, slight breeze
cool ± 50°F (forecast)

FLUID LEVEL/WELL DEPTH MEASUREMENTS

Static Water Level (ft btoc) _____ TD (ft btoc) 39.18 Previous TD (ft btoc) N/A Static Water Level Elev. (msl / re) _____ ft.
 Sediment Thickness _____ ft. Sediment Description _____ Sediment Removal Method _____ Obstructed: Yes / No
 Top of Screen (ft btoc) 18.42 Screen Length 19.65 (ft.) x 0.10 1.965 maximum drawdown during micropurging
 Measured By ChMontes Elino Well Headspace Reading (ppm or %) 0.3 ppm 10/25/05 Date/Time 10/25/05
weld top

PURGE DATA

Macro Volume Calculations

Well TD _____ - Static Water Level _____ = Water Column _____ ft. x 0.17 (2 in.) or 0.66 (4 in.) _____ x 3 _____ gallons or _____ x 5 _____ gallons

Micro Volume Calculation

Well TD 39.18 - Static Water Level 7.98 = Water Column 31.2 ft. x 0.00118 = 0.5616 gallons x 3.785 0.2126 liters to remove prior to first parameter measurement

Purge Volume	Date	Start Time	Stop Time	Volume (Gallons/Liters)	Specific Conductance	Dissolved Oxygen/Redox	Temperature (°C/°F)	Turbidity / pH / Color / Odor
Purge Volume 1	<u>10/28</u>	<u>12:38</u>	<u>12:40</u>	<u>begin flow through</u>				
Purge Volume 2		<u>13:05</u>	<u>start over</u>	<u>after gathering supplies from external air supply (O2 tank)</u>				
Purge Volume 3		<u>17:20</u>	<u>water in the flow through well</u>		<u>27.0</u>	<u>5.58</u>	<u>313</u>	<u>14.9</u>
Purge Volume 4		<u>17:22</u>		<u>0.5</u>	<u>28.0</u>	<u>5.58</u>	<u>313</u>	<u>14.9</u>
Purge Volume 5		<u>17:25</u>		<u>0.8</u>	<u>27.6</u>	<u>4.37</u>	<u>319</u>	<u>14.8</u>
Purge Volume 6		<u>17:21</u>		<u>1.2</u>	<u>27.4</u>	<u>3.55</u>	<u>322</u>	<u>14.7</u>
Purge Volume 7		<u>17:25</u>		<u>1.6</u>	<u>27.2</u>	<u>3.22</u>	<u>324</u>	<u>14.7</u>
Purge Volume 8		<u>17:26</u>		<u>2.0</u>	<u>27.1</u>	<u>2.92</u>	<u>327</u>	<u>14.7</u>
Purge Volume 9		<u>17:27</u>		<u>2.4</u>	<u>27.0</u>	<u>2.78</u>	<u>328</u>	<u>14.7</u>
Total Volume								

SAMPLING DATA

Sample ID No. OSUW-13 Date/Time 10/28/05 1730 Sampled By ChMontes Method Micro purge Preservative HCL Filtered: yes

FIELD PARAMETERS (After Sample Collection)

Time 1735 Temperature 14.6 (°C) °F Specific Conductance 27.0 (µmhos/cm) pH 4.11 (std units)

PURGING/SAMPLING INFORMATION FORM

GENERAL INFORMATION

Site EIKton, MD Purging/Sampling Point ID (Well No.) OSMW-14 Project No. 2017
 General Wellhead Condition Good Top of Casing Elev (msl) re not surveyed yet ft. Weather 45°F, sunny

FLUID LEVEL/WELL DEPTH MEASUREMENTS

Static Water Level (ft btoc) 16.67 TD (ft btoc) 38.21 Previous TD (ft btoc) NA Static Water Level Elev (msl) re NA ft.
 Sediment Thickness NA ft. Sediment Description NA Sediment Removal Method NA Obstructed: Yes No
 Top of Screen (ft btoc) 18.56 Screen Length 10 19.65 (ft.) x 0.10 1.9 ft maximum drawdown during micropurging
 Measured By MRW Well Headspace Reading (ppm or %) 0 Date/Time 10-26-05

PURGE DATA

Macro Volume Calculations
 Well TD 38.21 - Static Water Level 16.67 = Water Column 21.54 ft. x 0.17 (2 in.) or 0.66 (4 in.) 3.662 x 3 10.99 gallons or _____ x 5 _____ gallons
Micro Volume Calculation
 Well TD 38.21 - Static Water Level 16.67 = Water Column 21.54 ft. x 0.00118 = 0.02542 gallons x 3.785 0.09620 liters to remove prior to first parameter measurement
 = 96.2 mL

	Date	Start Time	Stop Time	Volume (Gallons/Liters)	Specific Conductance (mS/cm)	Dissolved Oxygen/Redox	Temperature (C/F)	Turbidity /pH/Color/ Odor
Purge Volume 1	10-27-05	0945		0	0.311	2.16 / -125	12.53	307 / 4.79 / lt. brown / none
Purge Volume 2		0948		200	0.313	1.56 / -132	13.10	236 / 4.75 / v. lt. brown / none
Purge Volume 3		0951		400	0.314	1.24 / -136	13.48	186 / 4.73 / cloudy /
Purge Volume 4		0954		600	0.315	1.12 / -139	13.72	134 / 4.72 /
Purge Volume 5		0957		800	0.315	1.09 / -142	13.50	133 / 4.75 /
Purge Volume 6		1000		1000	0.315	1.03 / -148	13.61	81 / 4.71 / ↓
Purge Volume 7		1003		1200	0.314	0.94 / -152	13.56	72 / 4.71 / slightly cloudy /
Purge Volume 8		1005		1400	0.314	0.98 / -155	13.55	62 / 4.71 / ↓
Purge Volume 9								
Total Volume								

SAMPLING DATA

Sample ID No. OSMW-14 Date/Time 10-27-05/1010 Sampled By MRW Method low flow Preservative He1 Filtered: yes no

FIELD PARAMETERS (After Sample Collection)

Time 1010 1020 Temperature 13.57 (°C/°F) Specific Conductance 0.312 (mS/cm) pH 4.73 (std units)

PURGING/SAMPLING INFORMATION FORM

pump@

GENERAL INFORMATION

Site GE TRAILER ELKTON-MD Purging/Sampling Point ID (Well No.) OSUW-15 Project No. 2017-F
 General Wellhead Condition good condition Top of Casing Elev. (msl / re) _____ ft. Weather cool clear sky
 (40-50°F today forecast)

FLUID LEVEL/WELL DEPTH MEASUREMENTS

Static Water Level (ft btoc) 11.85 TD (ft btoc) 37.79 Previous TD (ft btoc) NA Static Water Level Elev. (msl / re) _____ ft.
 Sediment Thickness 0 ft. Sediment Description - Sediment Removal Method - Obstructed: Yes No
 Top of Screen (ft btoc) 17.81 Screen Length 19.65 (ft.) x 0.10 1.97 maximum drawdown during micropurging
 Measured By CA Montero Well Headspace Reading (ppm or %) 6.0 ppm Date/Time 10/25/05

PURGE DATA

Macro Volume Calculations

Well TD 37.79 - Static Water Level 11.85 = Water Column _____ ft. x 0.17 (2 in.) or 0.66 (4 in.) _____ x 3 _____ gallons or _____ x 5 _____ gallons

Micro Volume Calculation

Well TD 37.79 - Static Water Level 11.85 = Water Column 25.94 ft. x 0.00118 = 0.306 gallons x 3.785 0.12 liters to remove prior to first parameter measurement

Date	Start Time	Stop Time	Volume (Gallons/liters)	Specific Conductance (µmhos/cm)	Dissolved Oxygen/Redox (%)	Temperature (°C/°F)	Turbidity / pH / Color / Odor
10/27	0906	0907	0.5	18.9	7.18 / 229	12.8	461 / 4.77 / clear / no
	0908		+ 0.5 (1.0)	17.2	6.81 / 232	12.9	385 / 4.92 / " / "
	0910		2 total	15.6	8.20 / 237	13.1	345 / 4.81 / " / "
	0912		3 total	14.1	8.39 / 244	13.4	303 / 4.69 / " / "
	0914		4 total	13.3	8.13 / 250	13.5	27.2 / 4.61 / " / "
	0916		5 total	13.0	7.96 / 254	13.6	24.7 / 4.59 / " / "
	0918		6 total	13.1	7.97 / 255	13.5	20.2 / 4.60 / clear / no

SAMPLING DATA

Sample ID No. OSUW-15 Date/Time 10/27/05/0920 Sampled By CA Montero Method low flow Preservative HCL Filtered: yes no

3 VOAs (40ml clean glass)

FIELD PARAMETERS (After Sample Collection)

Time 0925 Temperature 13.6 (°C) / °F _____ Specific Conductance 13.0 (µmhos/cm) pH 4.60 (std units)
 (µmhos/cm)

PURGING/SAMPLING INFORMATION FORM

GENERAL INFORMATION

Site C. P. RAIL CAR Station Purging/Sampling Point ID (Well No.) S-1 Project No. 2077-19
 General Wellhead Condition concrete / S.V. good Top of Casing Elev. (msl / re) _____ ft. Weather clear, windy mid 50's

FLUID LEVEL/WELL DEPTH MEASUREMENTS

Static Water Level (ft btoc) 26.61 TD (ft btoc) 41.63 Previous TD (ft btoc) 41.62 Static Water Level Elev. (msl / re) _____ ft.
 Sediment Thickness _____ ft. Sediment Description _____ Sediment Removal Method _____ Obstructed: Yes / No
 Top of Screen (ft btoc) _____ Screen Length 10 (ft.) x 0.10 _____ 1.0 maximum drawdown during micropurging
 Measured By e-lim Well Headspace Reading (ppm or %) 0.0 - ppm Date/Time 10/25/08

PURGE DATA

Macro Volume Calculations

Well TD _____ - Static Water Level _____ = Water Column _____ ft. x 0.17 (2 in.) or 0.66 (4 in.) _____ x 3 _____ gallons or _____ x 5 _____ gallons

Micro Volume Calculation

Well TD 41.63 - Static Water Level 26.61 = Water Column 15.02 ft. x 0.00118 = 0.02704 gallons x 3.7850 = 0.10233 liters to remove prior to first parameter measurement

4.3 x 26.61 (11.45 gal) + 15.02 @ 25

Purge Volume	Date	Start Time	Stop Time	Volume (Gallons/Liters)	3% Specific mS/cm Conductance	10% Dissolved Oxygen/Redox	Temperature (C/F)	10.01 Turbidity / pH / Color / Odor			
								Turbidity	pH	Color / Odor	
Purge Volume 1	11/2/05	1038	1039	0.15	39.2	7.14 / 68	13.9	52.9	6.31	clear	NO
Purge Volume 2			1040	0.4	39.3	4.96 / 93	13.5	51.8	6.24	"	"
Purge Volume 3			1040	0.55	39.4	3.31 / 114	13.5	46.6	5.83	"	"
Purge Volume 4			1042	0.75	39.5	2.67 / 121	13.4	40.5	5.71	"	"
Purge Volume 5			1043	0.825	39.5	2.19 / 121	13.6	40.5	5.64	"	"
Purge Volume 6			1044	0.95	39.5	1.91 / 130	13.6	50.4	5.58	"	"
Purge Volume 7			1045	1.075	39.5	1.73 / 135	13.6	52.2	5.47	"	"
Purge Volume 8			1046	1.175	39.5	1.61 / 138	13.7	49.1	5.41	"	"
Purge Volume 9			1047	1.250	39.5	1.50 / 143	13.7	52.3	5.39	"	"
Total Volume			1048	1.40	39.4	1.42 / 148	13.6	45.8	5.33	"	"
			1049	1.55	39.4	1.39 / 148	13.6	44.9	5.30	"	"

SAMPLING DATA

Sample ID No. S-1 Date/Time 11/2/05 1055 Sampled By _____ Method _____ Preservative _____ Filtered: yes / no

FIELD PARAMETERS (After Sample Collection)

Time 1100 Temperature 13.6 (°C) (°F) Specific Conductance 39.5 $\frac{\mu S}{cm}$ (µmhos/cm) pH 5.32 (std units)

PURGING/SAMPLING INFORMATION FORM

GENERAL INFORMATION

Site Eikton, MD - GERES Purging/Sampling Point ID (Well No.) S-2 Project No. 2017
 General Wellhead Condition Good Top of Casing Elev. (msl) (re) 79.97 ft. Weather 50°F, sunny, clear

FLUID LEVEL/WELL DEPTH MEASUREMENTS

Static Water Level (ft btoc) 35.10 TD (ft btoc) 57.67 Previous TD (ft btoc) 57.66 Static Water Level Elev. (msl) (re) 44.87 ft.
 Sediment Thickness NA ft. Sediment Description NA Sediment Removal Method NA Obstructed: Yes / No
 Top of Screen (ft btoc) 47.17 Screen Length 22.57 (ft.) x 0.10 2.26 maximum drawdown during micropurging = 37.36 ft BToc
 Measured By MRW Well Headspace Reading (ppm or %) 0 Date/Time 10-26-05

PURGE DATA

Macro Volume Calculations

Well TD _____ - Static Water Level _____ = Water Column _____ ft. x 0.17 (2 in.) or 0.66 (4 in.) _____ x 3 _____ gallons or _____ x 5 _____ gallons

Micro Volume Calculation

Well TD 57.67 - Static Water Level 35.10 = Water Column 22.57 ft. x 0.00118 = 0.02673 gallons x 3.785 0.1008 liters to remove prior to first parameter measurement
 = 100.8 ml

	Date	Start Time	Stop Time	Volume (ml) (Gallons/liters)	Specific Conductance (ms/cm)	Dissolved Oxygen/Redox	Temperature (C/F)	Turbidity /pH/Color/ Odor
Purge Volume 1	11-2-05	1642		0	0.097	1.56/-134	13.19	15.6 / 6.1 / slightly cloudy / none
Purge Volume 2		1645		300	0.096	0.89/-139	12.92	7.72 / 5.93 / clear
Purge Volume 3		1648		600	0.096	0.68/-151	12.86	6.99 / 5.86
Purge Volume 4		1651		900	0.095	0.58/-162	12.80	6.80 / 5.77
Purge Volume 5		1654		1200	0.095	0.51/-167	12.76	5.34 / 5.78
Purge Volume 6		1657		1500	0.096	0.46/-166	12.75	4.72 / 5.79
Purge Volume 7		1700		1800	0.097	0.43/-170	12.71	4.67 / 5.80
Purge Volume 8		1703		2100	0.099	0.42/-177	12.68	3.87 / 5.81
Purge Volume 9								
Total Volume								

SAMPLING DATA

Sample ID No. S-2 Date/Time 11-2-05/1708 Sampled By MRW Method low flow Preservative HCl Filtered: yes / No

FIELD PARAMETERS (After Sample Collection)

Time 1714 Temperature 12.55 (C/F) Specific Conductance 0.101 (ms/cm) pH 5.88 (std units)

PURGING/SAMPLING INFORMATION FORM

GENERAL INFORMATION

Site Elkton, MD - GERFS Purging/Sampling Point ID (Well No.) S-3 Project No. 2017
 General Wellhead Condition Good Top of Casing Elev. (msl / fe) 71.49 ft. Weather ~55°F, sunny, clear

FLUID LEVEL/WELL DEPTH MEASUREMENTS

Static Water Level (ft btoc) 26.87 TD (ft btoc) 53.94 Previous TD (ft btoc) 53.92 Static Water Level Elev. (msl / fe) 44.62 ft.
 Sediment Thickness NA ft. Sediment Description NA Sediment Removal Method NA Obstructed: Yes / No
 Top of Screen (ft btoc) 43.14 Screen Length 27.07 ft. x 0.10 2.71 maximum drawdown during micropurging = 27.87 ft. btoc
 Measured By MRW H₂O column Well Headspace Reading (ppm or %) 26.4 Date/Time 10-26-05

PURGE DATA

Macro Volume Calculations

Well TD _____ - Static Water Level _____ = Water Column _____ ft. x 0.17 (2 in.) or 0.66 (4 in.) _____ x 3 _____ gallons or _____ x 5 _____ gallons

Micro Volume Calculation

Well TD 53.94 - Static Water Level 26.87 = Water Column 27.07 ft. x 0.00118 = 0.03194 gallons x 3.785 0.1209 liters to remove prior to first parameter measurement
 = 12.09 mL

	Date	Start Time	Stop Time	Volume (mL) (Gallons/Liters)	Specific Conductance (mS/cm)	Dissolved Oxygen/Redox	Temperature (°F)	Turbidity /pH/Color/ Odor
Purge Volume 1	11-2-05	1243		0	0.204	2.31 / -155	14.23	6.45 / 6.68 / Clear / none
Purge Volume 2		1246		150	0.204	1.79 / -151	14.21	4.42 / 6.70
Purge Volume 3		1249		300	0.203	1.56 / -160	14.60	3.62 / 6.73
Purge Volume 4		1252		450	0.203	1.22 / -163	13.95	3.38 / 6.79
Purge Volume 5		1255		600	0.202	1.00 / -168	13.83	3.72 / 6.80
Purge Volume 6		1258		750	0.201	0.88 / -177	13.75	3.32 / 6.83
Purge Volume 7		1301		900	0.202	0.80 / -180	13.73	2.94 / 6.84
Purge Volume 8		1304		1050	0.202	0.74 / -184	13.65	2.58 / 6.82
Purge Volume 9		1307		1200	0.202	0.72 / -184	13.68	2.46 / 6.79
Total Volume								

SAMPLING DATA

Sample ID No. S-3 Date/Time 11-2-05 / 1312 Sampled By MRW Method low flow Preservative HCl Filtered: yes / no

FIELD PARAMETERS (After Sample Collection)

Time 1317 Temperature MRW 13.60 13.62 (°C) / (°F) Specific Conductance 0.201 (mS/cm) / (µmhos/cm) pH 6.83 (std units)

PURGING/SAMPLING INFORMATION FORM

GENERAL INFORMATION

Site Elkton, MD - GERRS Purging/Sampling Point ID (Well No.) S-4 Project No. 2017
 General Wellhead Condition Poor - cracked concrete Top of Casing Elev. (msl) (re) 70.06 ft. Weather 55°F, Sunny

FLUID LEVEL/WELL DEPTH MEASUREMENTS

Static Water Level (ft btoc) 24.82 TD (ft btoc) 47.06 Previous TD (ft btoc) 47.05 Static Water Level Elev. (msl) (re) 45.24 ft.
 Sediment Thickness NA ft. Sediment Description NA Sediment Removal Method NA Obstructed: Yes / No
 Top of Screen (ft btoc) 36.56 Screen Length 10 (ft.) x 0.10 1.0 maximum drawdown during micropurging = 25.82
 Measured By MRW Well Headspace Reading (ppm or %) 0 Date/Time 10-26-05

PURGE DATA

Macro Volume Calculations

Well TD _____ - Static Water Level _____ = Water Column _____ ft. x 0.17 (2 in.) or 0.66 (4 in.) _____ x 3 _____ gallons or _____ x 5 _____ gallons

Micro Volume Calculation

Well TD 47.06 - Static Water Level 24.82 = Water Column 22.21 ft. x 0.00118 = 0.02621 gallons x 3.785 0.09920 liters to remove prior to first parameter measurement
 = 99.20 mL

	Date	Start Time	Stop Time	Volume (Gallons/liters) (MRW)	Specific Conductance (mS/cm)	Dissolved Oxygen/Redox	Temperature (°C/°F)	Turbidity /pH/Color/ Odor
Purge Volume 1	11.2.05	1018	1021	0	0.356	1.36/-79	14.17	14.08/7.42/clear/none
Purge Volume 2		1024		300	0.352	1.16/-82	14.43	12.67/7.37
Purge Volume 3		1027		600	0.353	1.08/-87	14.63	9.84/7.34
Purge Volume 4		1030		900	0.353	1.04/-92	15.06	6.72/7.39
Purge Volume 5		1033		1200	0.352	0.98/-92	15.28	5.40/7.44
Purge Volume 6		1036		1500	0.352	1.01/-94	15.42	5.03/7.29
Purge Volume 7		1039		1800	0.351	1.01/-92	15.55	5.22/7.30
Purge Volume 8	✓	1042		2100	0.352	1.04/-91	15.59	5.55/7.29 ✓
Purge Volume 9								
Total Volume								

SAMPLING DATA

Sample ID No. S-4 Date/Time 11.2.05/1047 Sampled By MRW Method low flow Preservative HCl Filtered: yes / no

FIELD PARAMETERS (After Sample Collection)

Time 1054 Temperature 15.58 (°C/°F) Specific Conductance 0.352 (mS/cm) (µmhos/cm) pH 7.29 (std units)

PURGING/SAMPLING INFORMATION FORM

GENERAL INFORMATION

Site EIKTON, MD - GERRS Purging/Sampling Point ID (Well No.) S-5 Project No. 2017
 General Wellhead Condition Good Top of Casing Elev. (msl/re) 39.09 ft. Weather 46.5°F, fair

FLUID LEVEL/WELL DEPTH MEASUREMENTS

Static Water Level (ft btoc) 19.84 TD (ft btoc) 38.80 Previous TD (ft btoc) 38.79 Static Water Level Elev. (msl/re) 19.25 ft.
 Sediment Thickness NA ft. Sediment Description NA Sediment Removal Method NA Obstructed: Yes No
 Top of Screen (ft btoc) 28.30 Screen Length 10 (ft.) x 0.10 1.0 maximum drawdown during micropurging = 20.84
 Measured By MRW Well Headspace Reading (ppm or %) 0 Date/Time 10.26.05

PURGE DATA

Macro Volume Calculations

Well TD _____ - Static Water Level _____ = Water Column _____ ft. x 0.17 (2 in.) or 0.66 (4 in.) _____ x 3 _____ gallons or _____ x 5 _____ gallons

Micro Volume Calculation

Well TD 38.80 - Static Water Level 19.84 = Water Column 18.96 ft. x 0.00118 = 0.02237 gallons x 3.785 = 0.08468 liters to remove prior to first parameter measurement
 = 84.68 mL

Purge Volume	Date	Start Time	Stop Time	Volume (mL)	Specific	Dissolved Oxygen/	Temperature	Turbidity /pH/Color/ Odor
				(Gallons/liters)	Conductance	Redox	(C/F)	
Purge Volume 1	10.31.05	1320		0	0.176	1.03/-149	17.12	40.1/4.75/cloudy/s light
Purge Volume 2		1322		200	0.176	0.78/-157	16.75	40.1/4.74/
Purge Volume 3		1324		400	0.175	0.72/-164	16.54	41.8/4.75
Purge Volume 4		1326		600	0.175	0.60/-166	16.36	37.8/4.75
Purge Volume 5		1328		800	0.175	0.58/-171	16.33	37.1/4.73
Purge Volume 6		1330		1000	0.175	0.54/-176	16.22	40.6/4.73
Purge Volume 7								
Purge Volume 8								
Purge Volume 9								
Total Volume								

SAMPLING DATA

Sample ID No. S-5 Date/Time 10.31.05/1335 Sampled By MRW Method low flow Preservative HCl Filtered: yes no

FIELD PARAMETERS (After Sample Collection)

Time 1343 Temperature 16.36 °C (°F) 61 Specific Conductance 0.175 (µS/cm) 175 (µmhos/cm) 175 (MW) pH 4.84 (std units)

PURGING/SAMPLING INFORMATION FORM

GENERAL INFORMATION

Site EIKTON, MD GERS Purging/Sampling Point ID (Well No.) S-6 Project No. 2017
 General Wellhead Condition good Top of Casing Elev. (msl) (re) 47.73 ft. Weather 40°F, partly cloudy/nig

FLUID LEVEL/WELL DEPTH MEASUREMENTS

Static Water Level (ft btoc) 19.60 TD (ft btoc) 50.29 Previous TD (ft btoc) 50.28 Static Water Level Elev. (msl) (re) 28.13 ft.
 Sediment Thickness NA ft. Sediment Description NA Sediment Removal Method NA Obstructed: Yes / No
 Top of Screen (ft btoc) 39.79 Screen Length 10 (MW) (ft.) x 0.10 10 (MW) maximum drawdown during micropurging = 20.60 ft BTOC
 Measured By MRW H₂O column 30.69 Well Headspace Reading (ppm or %) 3.07 max. drawdown = 22.67 ft BTOC (see field book) Date/Time 10-26-05

PURGE DATA

Macro Volume Calculations

Well TD _____ - Static Water Level _____ = Water Column _____ ft. x 0.17 (2 in.) or 0.66 (4 in.) _____ x 3 _____ gallons or _____ x 5 _____ gallons

Micro Volume Calculation

Well TD 50.29 - Static Water Level 19.60 = Water Column 30.69 ft. x 0.00118 = 0.03621 gallons x 3.785 0.1371 liters to remove prior to first parameter measurement
 = 137.1 mL

	Date	Start Time	Stop Time	Volume (mL) (Gallons/Liters)	Specific Conductance (ms/cm)	Dissolved Oxygen/Redox	Temperature (°F)	Turbidity /pH/Color/ Odor
Purge Volume 1	10-28-05	1855		<u>0.256 (MW)</u>	<u>0.256</u>	<u>4.61 / -121</u>	<u>9.58</u>	<u>13.85 / 7.26 / clear / none</u>
Purge Volume 2		1900		<u>0.150</u>	<u>0.255</u>	<u>3.60 / -123</u>	<u>9.85</u>	<u>15.56 / 7.28 /</u>
Purge Volume 3		1905	<u>drawdown</u>	<u>200</u>	<u>0.253 (MRW)</u>	<u>2.97 / -124</u>	<u>9.80</u>	<u>14.21 / 7.23</u>
Purge Volume 4	10-29-05	0900		<u>0</u>	<u>0.247</u>	<u>1.27 / -191</u>	<u>12.35</u>	<u>15.04 / 6.78 / clear / none</u>
Purge Volume 5		0911		<u>0</u>	<u>0.248</u>	<u>1.26 / -198</u>	<u>12.38</u>	<u>11.91 / 6.87 /</u>
Purge Volume 6		0913	<u>drawdown</u>	<u>400</u>	<u>0.248</u>	<u>1.25 / -174</u>	<u>10.29</u>	<u>9.55 / 6.81</u>
Purge Volume 7		0917	<u>shutoff</u>	<u>500</u>	<u>0.247</u>	<u>1.27 / -170</u>	<u>10.54</u>	<u>8.95 / 6.77</u>
Purge Volume 8		0934		<u>600</u>	<u>0.248</u>	<u>1.14 / -187</u>	<u>11.33</u>	<u>10.66 / 6.86</u>
Purge Volume 9		0936		<u>700</u>	<u>0.249</u>	<u>1.10 / -193</u>	<u>11.57</u>	<u>11.64 / 6.91</u>
Total Volume		0938		<u>800</u>	<u>0.249</u>	<u>1.04 / -209</u>	<u>11.74</u>	<u>11.31 / 6.93</u>
		0940		<u>900</u>	<u>0.249</u>	<u>1.03 / -213</u>	<u>11.91</u>	<u>9.99 / 6.92</u>
		0942		<u>1000</u>	<u>0.248</u>	<u>1.04 / -210</u>	<u>11.92</u>	<u>9.38 / 6.96</u>
		0944		<u>1100</u>				

Sample ID No. S-6 Date/Time 10-28-05 / 0950 Sampled By MRW Method low flow Preservative HCl Filtered: yes / no

FIELD PARAMETERS (After Sample Collection)

Time 0955 Temperature 11.66 (°C) (°F) Specific Conductance 0.248 (ms/cm) (µmhos/cm) pH 6.92 (std units)

Rosengarten, Smith & Associates, Inc.

GE Railcar, Elkton, MD
RSA Project No. 2017-19

Off-Site Investigation Report
April 25, 2006

APPENDIX 4
2005 LABORATORY RESULTS BY WELL



ATLANTIC COAST
Laboratories, Incorporated

630 Churchmans Road
Newark, Delaware 19702
302-266-9121 • 454-8720 (FAX)
WWW.ATLANTICCOASTLABS.COM

REPORT OF ANALYSIS

Rosengarten, Smith & Assoc.
2222 Western Trails Blvd.
Suite 300
Austin, TX 78745
Attn: Mr. Charles Montero
Invoice Number: 113916

Order #: 05-10-476
Date: 11/16/05 11:57
Work ID: GE Railcar, Elkton
Date Received: 10/31/05
Date Completed: 11/16/05
Client Code: RSA

SAMPLE IDENTIFICATION

<u>Sample Number</u>	<u>Sample Description</u>	<u>Sample Number</u>	<u>Sample Description</u>
01	OSMW-15	12	MW-41
02	OSMW-6	13	MW-40
03	OSMW-4	14	MW-38
04	OSMW-5	15	MW-33
05	EQUIPMENT BLANK	16	MW-35
06	OSMW-13	17	MW-36
07	EQUIPMENT BLANK	18	MW-34
08	MW-22	19	MW-37
09	MW-23	20	EQUIPMENT BLANK
10	MW-44	21	TRIP BLANK
11	MW-42		

This cover page is an integral part of the analytical report.

Laboratory Certifications: DE DE00011 PA 68-335
MD 138 NJ DE568

Certified By
Warren Van Arsdall

TEST RESULTS BY SAMPLE

Sample Description: OSMW-15 Lab No: 01A
 Test Description: GC/MS Volatiles, SW846 8260 Method: SW 846 8260B Test Code: V_RSAA
 Collected: 10/27/05 09:20 Category: GW

PARAMETER	RESULT	LIMIT	WEIGHT
Acetone	5.4	5.0	
Benzene	ND	1.0	
Bromodichloromethane	ND	1.0	
Bromoform	ND	1.0	
Bromomethane	ND	1.0	
2-Butanone (MEK)	ND	5.0	
Carbon Disulfide	ND	1.0	
Carbon Tetrachloride	ND	1.0	
Chlorobenzene	ND	1.0	
Chloroethane	ND	1.0	
Chloroform	ND	1.0	
Chloromethane	ND	1.0	
Dibromochloromethane	ND	1.0	
1,2-Dibromoethane	ND	1.0	
1,2-Dibromo-3-Chloropropane	ND	1.0	
1,2-Dichloroethane	ND	1.0	
1,1-Dichloroethane	ND	1.0	
1,1-Dichloroethene	ND	1.0	
cis-1,2-Dichloroethene	ND	1.0	
trans-1,2-Dichloroethene	ND	1.0	
1,2-Dichloroethene, total	ND	1.0	
Dichloromethane (MeCl2)	ND	1.0	
1,2-Dichloropropane	ND	1.0	
cis-1,3-Dichloropropene	ND	1.0	
trans-1,3-Dichloropropene	ND	1.0	
Ethylbenzene	ND	1.0	
2-Hexanone	ND	5.0	
Isopropylbenzene	ND	1.0	
4-Methyl-2-Pentanone (MIBK)	ND	5.0	
Styrene	ND	1.0	
1,1,2,2-Tetrachloroethane	ND	1.0	
Tetrachloroethene	0.7 J	1.0	
Toluene	ND	1.0	
1,1,2-Trichloroethane	ND	1.0	
1,1,1-Trichloroethane	ND	1.0	
Trichloroethene	ND	1.0	
Vinyl Chloride	ND	1.0	
o-Xylene	ND	1.0	
m,p-Xylene	ND	2.0	
Methyl-tert-butyl ether	ND	1.0	
Surr Cmpd - % Rec - Limits			

Order # 05-10-476
12/05/05 15:00

Page 3

TEST RESULTS BY SAMPLE

Sample Description: OSMW-15 Lab No: 01A
Test Description: GC/MS Volatiles, SW846 8260 Method: SW 846 8260B Test Code: V_RSAA
Collected: 10/27/05 09:20 Category: GW

SURROGATE	RECOVERY	LIMITS
Dibromofluoromethane	<u>100</u>	<u>86</u> - <u>118</u>
Toluene-d8	<u>101</u>	<u>88</u> - <u>110</u>
4-Bromofluorobenzene	<u>101</u>	<u>86</u> - <u>115</u>

Notes and Definitions for this Report:

DATE RUN 11/03/05 07:11:00
ANALYST IM
CONC FACTOR 1
UNITS ug/L

TEST RESULTS BY SAMPLE

Sample Description: OSMW-6 Lab No: 02A
Test Description: GC/MS Volatiles, SW846 8260 Method: SW 846 8260B Test Code: V_RSAA
Collected: 10/27/05 10:42 Category: GW

PARAMETER	RESULT	LIMIT	WEIGHT
Acetone	3.1 J	5.0	
Benzene	ND	1.0	
Bromodichloromethane	ND	1.0	
Bromoform	ND	1.0	
Bromomethane	ND	1.0	
2-Butanone (MEK)	ND	5.0	
Carbon Disulfide	ND	1.0	
Carbon Tetrachloride	ND	1.0	
Chlorobenzene	ND	1.0	
Chloroethane	ND	1.0	
Chloroform	ND	1.0	
Chloromethane	ND	1.0	
Dibromochloromethane	ND	1.0	
1,2-Dibromoethane	ND	1.0	
1,2-Dibromo-3-Chloropropane	ND	1.0	
1,2-Dichloroethane	ND	1.0	
1,1-Dichloroethane	ND	1.0	
1,1-Dichloroethene	ND	1.0	
cis-1,2-Dichloroethene	ND	1.0	
trans-1,2-Dichloroethene	ND	1.0	
1,2-Dichloroethene, total	ND	1.0	
Dichloromethane (MeCl2)	ND	1.0	
1,2-Dichloropropane	ND	1.0	
cis-1,3-Dichloropropene	ND	1.0	
trans 1,3-Dichloropropene	ND	1.0	
Ethylbenzene	ND	1.0	
2-Hexanone	ND	5.0	
Isopropylbenzene	ND	1.0	
4-Methyl-2-Pentanone (MIBK)	ND	5.0	
Styrene	ND	1.0	
1,1,2,2-Tetrachloroethane	ND	1.0	
Tetrachloroethene	1.6	1.0	
Toluene	ND	1.0	
1,1,2-Trichloroethane	ND	1.0	
1,1,1-Trichloroethane	0.7 J	1.0	
Trichloroethene	ND	1.0	
Vinyl Chloride	ND	1.0	
o-Xylene	ND	1.0	
m,p-Xylene	ND	2.0	
Methyl-tert-butyl ether	1.3	1.0	
Surrogate - % Rec - Limits			

SURROGATE	%RECOVERY	LIMITS
Dibromofluoromethane	98	86 - 118

12/05/05 15:00

TEST RESULTS BY SAMPLE

Sample Description: OSMW-6

Lab No: 02A

Test Description: GC/MS Volatiles, SW846 8260 Method: SW 846 8260B Test Code: V_RSAA

Collected: 10/27/05 10:42

Category: GW

Toluene-d8	<u>100</u>	<u>88</u>	-	<u>110</u>
4-Bromofluorobenzene	<u>100</u>	<u>86</u>	-	<u>115</u>

Notes and Definitions for this Report:

DATE RUN 11/03/05 18:01:00

ANALYST IM

CONC FACTOR 1

UNITS ug/L

12/05/05 15:00

TEST RESULTS BY SAMPLE

Sample Description: OSMW-4

Lab No: 03A

Test Description: GC/MS Volatiles, SWB46 8260 Method: SW 846 8260B Test Code: V_RSAA

Collected: 10/27/05 17:23

Category: GW

PARAMETER	RESULT	LIMIT	WEIGHT
Acetone	ND	5.0	
Benzene	ND	1.0	
Bromochloromethane	ND	1.0	
Bromoform	ND	1.0	
Bromomethane	ND	1.0	
2-Butanone (MEK)	ND	5.0	
Carbon Disulfide	ND	1.0	
Carbon Tetrachloride	ND	1.0	
Chlorobenzene	ND	1.0	
Chloroethane	ND	1.0	
Chloroform	ND	1.0	
Chloromethane	ND	1.0	
Dibromochloromethane	ND	1.0	
1,2-Dibromoethane	ND	1.0	
1,2-Dibromo-3-Chloropropane	ND	1.0	
1,2-Dichloroethane	ND	1.0	
1,1-Dichloroethane	ND	1.0	
1,1-Dichloroethene	ND	1.0	
cis-1,2-Dichloroethene	1.4	1.0	
trans-1,2-Dichloroethene	0.6 J	1.0	
1,2-Dichloroethene, total	2.0 J	1.0	
Dichloromethane (MeCl2)	ND	1.0	
1,2-Dichloropropane	ND	1.0	
cis-1,3-Dichloropropene	ND	1.0	
trans-1,3-Dichloropropene	ND	1.0	
Ethylbenzene	ND	1.0	
2-Hexanone	ND	5.0	
Isopropylbenzene	ND	1.0	
4-Methyl-2-Pentanone (MIBK)	ND	5.0	
Styrene	ND	1.0	
1,1,2,2-Tetrachloroethane	24.4	1.0	
Tetrachloroethene	1.4	1.0	
Toluene	ND	1.0	
1,1,2-Trichloroethane	ND	1.0	
1,1,1-Trichloroethane	ND	1.0	
Trichloroethene	2.9	1.0	
Vinyl Chloride	ND	1.0	
o-Xylene	ND	1.0	
m,p-Xylene	ND	2.0	
Methyl-tert-butyl ether	ND	1.0	
Surr Cmpd % Rec Limits			

SURROGATE	%RECOVERY	LIMITS
Dibromofluoromethane	99	86 - 118

12/05/05 15:00

TEST RESULTS BY SAMPLE

Sample Description: OSMW-4

Lab No: 03A

Test Description: GC/MS Volatiles, SW846 8260 Method: SW 846 8260B Test Code: V_RSAA

Collected: 10/27/05 17:23

Category: GW

Toluene-d8	<u>100</u>	<u>88</u>	-	<u>110</u>
4-Bromofluorobenzene	<u>100</u>	<u>86</u>	-	<u>115</u>

Notes and Definitions for this Report:

DATE RUN 11/03/05 23:00:00

ANALYST IM

CONC FACTOR 1

UNITS ug/L

12/05/05 15:00

TEST RESULTS BY SAMPLE

Sample Description: OSMW-5

Lab No: 04A

Test Description: GC/MS Volatiles, SW846 8260 Method: SW 846 8260B Test Code: V_RSAA

Collected: 10/27/05 18:08

Category: GW

PARAMETER	RESULT	LIMIT	WEIGHT
Acetone	3.8 J	5.0	
Benzene	ND	1.0	
Bromodichloromethane	ND	1.0	
Bromoform	ND	1.0	
Bromomethane	ND	1.0	
2-Butanone (MEK)	ND	5.0	
Carbon Disulfide	ND	1.0	
Carbon Tetrachloride	ND	1.0	
Chlorobenzene	ND	1.0	
Chloroethane	ND	1.0	
Chloroform	ND	1.0	
Chloromethane	ND	1.0	
Dibromochloromethane	ND	1.0	
1,2-Dibromoethane	ND	1.0	
1,2-Dibromo-3-Chloropropane	ND	1.0	
1,2-Dichloroethane	ND	1.0	
1,1-Dichloroethane	ND	1.0	
1,1-Dichloroethene	ND	1.0	
cis-1,2-Dichloroethene	2.8	1.0	
trans-1,2-Dichloroethene	2.6	1.0	
1,2-Dichloroethene, total	5.4	1.0	
Dichloromethane (MeCl2)	ND	1.0	
1,2-Dichloropropane	ND	1.0	
cis-1,3-Dichloropropene	ND	1.0	
trans-1,3-Dichloropropene	ND	1.0	
Ethylbenzene	ND	1.0	
2-Hexanone	ND	5.0	
Isopropylbenzene	ND	1.0	
4-Methyl-2-Pentanone (MIBK)	ND	5.0	
Styrene	ND	1.0	
1,1,2,2-Tetrachloroethane	40.8	1.0	
Tetrachloroethene	1.5	1.0	
Toluene	ND	1.0	
1,1,2-Trichloroethane	1.9	1.0	
1,1,1-Trichloroethane	ND	1.0	
Trichloroethene	6.8	1.0	
Vinyl Chloride	ND	1.0	
o-Xylene	ND	1.0	
m,p Xylene	ND	2.0	
Methyl-tert-butyl ether	ND	1.0	
Surr Cmpd - % Rec - Limits			

SURROGATE	%RECOVERY	LIMITS
Dibromofluoromethane	102	86 - 118

12/05/05 15:00

TEST RESULTS BY SAMPLE

Sample Description: OSMW-5

Lab No: 04A

Test Description: GC/MS Volatiles, SW846 8260 Method: SW 846 8260B Test Code: V_RSAA

Collected: 10/27/05 18:08

Category: GW

Toluene-d8	<u>100</u>	<u>88</u>	-	<u>110</u>
4-Bromofluorobenzene	<u>101</u>	<u>86</u>	-	<u>115</u>

Notes and Definitions for this Report:

DATE RUN 11/03/05 23:33:00

ANALYST IM

CONC FACTOR 1

UNITS ug/L

12/05/05 15:00

TEST RESULTS BY SAMPLE

Sample Description: EQUIPMENT BLANK

Lab No: 05A

Test Description: GC/MS Volatiles, SW846 8260 Method: SW 846 8260B Test Code: V_RSAA

Collected: 10/27/05 19:00

Category: GW

PARAMETER	RESULT	LIMIT	WEIGHT
Acetone	ND	5.0	
Benzene	ND	1.0	
Bromodichloromethane	ND	1.0	
Bromoform	ND	1.0	
Bromomethane	ND	1.0	
2-Butanone (MEK)	ND	5.0	
Carbon Disulfide	ND	1.0	
Carbon Tetrachloride	ND	1.0	
Chlorobenzene	ND	1.0	
Chloroethane	ND	1.0	
Chloroform	ND	1.0	
Chloromethane	ND	1.0	
Dibromochloromethane	ND	1.0	
1,2-Dibromoethane	ND	1.0	
1,2-Dibromo-3-Chloropropane	ND	1.0	
1,2-Dichloroethane	ND	1.0	
1,1-Dichloroethane	ND	1.0	
1,1-Dichloroethene	ND	1.0	
cis-1,2-Dichloroethene	ND	1.0	
trans-1,2-Dichloroethene	ND	1.0	
1,2-Dichloroethene, total	ND	1.0	
Dichloromethane (MeCl2)	ND	1.0	
1,2-Dichloropropane	ND	1.0	
cis-1,3-Dichloropropene	ND	1.0	
trans-1,3-Dichloropropene	ND	1.0	
Ethylbenzene	ND	1.0	
2-Hexanone	ND	5.0	
Isopropylbenzene	ND	1.0	
4-Methyl-2-Pentanone (MIBK)	ND	5.0	
Styrene	ND	1.0	
1,1,2,2-Tetrachloroethane	ND	1.0	
Tetrachloroethene	ND	1.0	
Toluene	ND	1.0	
1,1,2-Trichloroethane	ND	1.0	
1,1,1-Trichloroethane	ND	1.0	
Trichloroethene	ND	1.0	
Vinyl Chloride	ND	1.0	
o Xylene	ND	1.0	
m,p-Xylene	ND	2.0	
Methyl-tert-butyl ether	ND	1.0	
Surr Compd - % Rec - Limits			

SURROGATE	%RECOVERY	LIMITS
Dibromofluoromethane	95	86 - 118

12/05/05 15:00

TEST RESULTS BY SAMPLE

Sample Description: EQUIPMENT BLANK

Lab No: 05A

Test Description: GC/MS Volatiles, SW846 8260 Method: SW 846 8260B Test Code: V_RSAA

Collected: 10/27/05 19:00

Category: GW

Toluene-d8	<u>100</u>	<u>88</u>	-	<u>110</u>
4-Bromofluorobenzene	<u>102</u>	<u>86</u>	-	<u>115</u>

Notes and Definitions for this Report:

DATE RUN 11/03/05 16:55:00

ANALYST IM

CONC FACTOR 1

UNITS ug/L

12/05/05 15:00

TEST RESULTS BY SAMPLE

Sample Description: OSMW-13

Lab No: 06A

Test Description: GC/MS Volatiles, SW846 8260 Method: SW 846 8260B Test Code: V_RSAA

Collected: 10/28/05 17:30

Category: GW

PARAMETER	RESULT	LIMIT	WEIGHT
Acetone	ND	5.0	
Benzene	ND	1.0	
Bromodichloromethane	ND	1.0	
Bromoform	ND	1.0	
Bromomethane	ND	1.0	
2-Butanone (MEK)	ND	5.0	
Carbon Disulfide	ND	1.0	
Carbon Tetrachloride	ND	1.0	
Chlorobenzene	ND	1.0	
Chloroethane	ND	1.0	
Chloroform	ND	1.0	
Chloromethane	ND	1.0	
Dibromochloromethane	ND	1.0	
1,2-Dibromoethane	ND	1.0	
1,2-Dibromo-3-Chloropropane	ND	1.0	
1,2-Dichloroethane	ND	1.0	
1,1-Dichloroethane	1.1	1.0	
1,1-Dichloroethene	0.6 J	1.0	
cis-1,2-Dichloroethene	5.2	1.0	
trans-1,2-Dichloroethene	4.2	1.0	
1,2-Dichloroethene, total	9.4	1.0	
Dichloromethane (MeCl2)	ND	1.0	
1,2-Dichloropropane	ND	1.0	
cis-1,3-Dichloropropene	ND	1.0	
trans-1,3-Dichloropropene	ND	1.0	
Ethylbenzene	ND	1.0	
2-Hexanone	ND	5.0	
Isopropylbenzene	ND	1.0	
4-Methyl-2-Pentanone (MIBK)	ND	5.0	
Styrene	ND	1.0	
1,1,2,2-Tetrachloroethane	173	1.0	
Tetrachloroethene	10.0	1.0	
Toluene	ND	1.0	
1,1,2-Trichloroethane	2.1	1.0	
1,2,1-Trichloroethane	2.3	1.0	
Trichloroethene	41.1	1.0	
Vinyl Chloride	ND	1.0	
o-Xylene	ND	1.0	
m,p-Xylene	ND	2.0	
Methyl-tert-butyl ether	ND	1.0	
Surr Compd - % Rec - Limits			

SURROGATE	%RECOVERY	LIMITS
Dibromofluoromethane	100	86 - 118

12/05/05 15:00

TEST RESULTS BY SAMPLE

Sample Description: OSMW-13

Lab No: 06A

Test Description: GC/MS Volatiles, SW846 8260 Method: SW 846 8260B Test Code: V_RSAA

Collected: 10/28/05 17:30

Category: GW

Toluene-d8	<u>99</u>	<u>88</u>	-	<u>110</u>
4-Bromofluorobenzene	<u>101</u>	<u>86</u>	-	<u>115</u>

Notes and Definitions for this Report:

DATE RUN 11/03/05 07:45:00

ANALYST IM

CONC FACTOR 1

UNITS ug/L

12/05/05 15:00

TEST RESULTS BY SAMPLE

Sample Description: EQUIPMENT BLANK Lab No: 07A
 Test Description: GC/MS Volatiles, SW846 8260 Method: SW 846 8260B Test Code: V_RSAA
 Collected: 10/28/05 17:45 Category: GW

PARAMETER	RESULT	LIMIT	WEIGHT
Acetone	ND	5.0	
Benzene	ND	1.0	
Bromodichloromethane	ND	1.0	
Bromoform	ND	1.0	
Bromomethane	ND	1.0	
2-Butanone (MEK)	ND	5.0	
Carbon Disulfide	ND	1.0	
Carbon Tetrachloride	ND	1.0	
Chlorobenzene	ND	1.0	
Chloroethane	ND	1.0	
Chloroform	ND	1.0	
Chloromethane	ND	1.0	
Dibromochloromethane	ND	1.0	
1,2-Dibromoethane	ND	1.0	
1,2-Dibromo-3-Chloropropane	ND	1.0	
1,2-Dichloroethane	ND	1.0	
1,1-Dichloroethane	ND	1.0	
1,1-Dichloroethene	ND	1.0	
cis-1,2-Dichloroethene	ND	1.0	
trans-1,2-Dichloroethene	ND	1.0	
1,2-Dichloroethene, total	ND	1.0	
Dichloromethane (MeCl2)	ND	1.0	
1,2-Dichloropropane	ND	1.0	
cis-1,3-Dichloropropene	ND	1.0	
trans-1,3-Dichloropropene	ND	1.0	
Ethylbenzene	ND	1.0	
2-Hexanone	ND	5.0	
Isopropylbenzene	ND	1.0	
4-Methyl-2-Pentanone (MIBK)	ND	5.0	
Styrene	ND	1.0	
1,1,2,2-Tetrachloroethane	ND	1.0	
Tetrachloroethene	ND	1.0	
Toluene	ND	1.0	
1,1,2-Trichloroethane	ND	1.0	
1,1,1-Trichloroethane	ND	1.0	
Trichloroethene	ND	1.0	
Vinyl Chloride	ND	1.0	
o-Xylene	ND	1.0	
m,p-Xylene	ND	2.0	
Methyl-tert-butyl ether	ND	1.0	
Surr Compd - % Rec - Limits			

SURROGATE	*RECOVERY	LIMITS
Dibromofluoromethane	97	86 - 118

Order # 05-10-476
12/05/05 15:00

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TEST RESULTS BY SAMPLE

Sample Description: EQUIPMENT BLANK Lab No: 07A
Test Description: GC/MS Volatiles, SW846 8260 Method: SW 846 8260B Test Code: V_RSAA
Collected: 10/28/05 17:45 Category: GW

Toluene-d8	<u>100</u>	<u>88</u>	-	<u>110</u>
4-Bromofluorobenzene	<u>102</u>	<u>86</u>	-	<u>115</u>

Notes and Definitions for this Report:

DATE RUN 11/03/05 17:28:00
ANALYST IM
CONC FACTOR 1
UNITS ug/L

12/05/05 15:00

TEST RESULTS BY SAMPLE

Sample Description: MW-22

Lab No: 08A

Test Description: GC/MS Volatiles, SW846 8260 Method: SW 846 8260B Test Code: V_RSAA

Collected: 10/29/05 08:30

Category: GW

PARAMETER	RESULT	LIMIT	WEIGHT
Acetone	18.2	5.0	
Benzene	ND	1.0	
Bromodichloromethane	ND	1.0	
Bromoform	ND	1.0	
Bromomethane	ND	1.0	
2-Butanone (MEK)	ND	5.0	
Carbon Disulfide	ND	1.0	
Carbon Tetrachloride	ND	1.0	
Chlorobenzene	ND	1.0	
Chloroethane	ND	1.0	
Chloroform	ND	1.0	
Chloromethane	ND	1.0	
Dibromochloromethane	ND	1.0	
1,2-Dibromoethane	ND	1.0	
1,2-Dibromo-3-Chloropropane	ND	1.0	
1,2-Dichloroethane	ND	1.0	
1,1-Dichloroethane	ND	1.0	
1,1-Dichloroethene	ND	1.0	
cis-1,2-Dichloroethene	0.5 J	1.0	
trans-1,2-Dichloroethene	ND	1.0	
1,2-Dichloroethene, total	0.5 J	1.0	
Dichloromethane (MeCl2)	ND	1.0	
1,2-Dichloropropane	ND	1.0	
cis-1,3-Dichloropropene	ND	1.0	
trans-1,3-Dichloropropene	ND	1.0	
Ethylbenzene	ND	1.0	
2-Hexanone	ND	5.0	
Isopropylbenzene	ND	1.0	
4-Methyl-2-Pentanone (MIBK)	ND	5.0	
Styrene	ND	1.0	
1,1,2,2-Tetrachloroethane	1.3	1.0	
Tetrachloroethene	ND	1.0	
Toluene	ND	1.0	
1,1,2-Trichloroethane	ND	1.0	
1,1,1-Trichloroethane	ND	1.0	
Trichloroethene	ND	1.0	
Vinyl Chloride	ND	1.0	
o-Xylene	ND	1.0	
m,p-Xylene	ND	2.0	
Methyl tert-butyl ether	ND	1.0	
Surr Cmpd - % Rec - Limits			

SURROGATE	%RECOVERY	LIMITS
Dibromofluoromethane	99	86 - 118

Order # 05-10-476
12/05/05 15:00

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TEST RESULTS BY SAMPLE

Sample Description: MW-22

Lab No: 08A

Test Description: GC/MS Volatiles, SW846 8260 Method: SW 846 8260B Test Code: V_RSAA

Collected: 10/29/05 08:30

Category: GW

Toluene-d8	<u>101</u>	<u>88</u>	-	<u>110</u>
4-Bromofluorobenzene	<u>102</u>	<u>86</u>	-	<u>115</u>

Notes and Definitions for this Report:

DATE RUN 11/03/05 18:34:00

ANALYST IM

CONC FACTOR 1

UNITS ug/L

TEST RESULTS BY SAMPLE

Sample Description: MW-23 Lab No: 09A
Test Description: GC/MS Volatiles, SW846 8260 Method: SW 846 8260B Test Code: V_RSAA
Collected: 10/29/05 10:05 Category: GW

PARAMETER	RESULT	LIMIT	WEIGHT
Acetone	12.5	5.0	
Benzene	ND	1.0	
Bromodichloromethane	ND	1.0	
Bromoform	ND	1.0	
Bromomethane	ND	1.0	
2 Butanone (MEK)	ND	5.0	
Carbon Disulfide	ND	1.0	
Carbon Tetrachloride	ND	1.0	
Chlorobenzene	3.1	1.0	
Chloroethane	ND	1.0	
Chloroform	0.8 J	1.0	
Chloromethane	ND	1.0	
Dibromochloromethane	ND	1.0	
1,2-Dibromoethane	ND	1.0	
1,2-Dibromo 3 Chloropropane	ND	1.0	
1,2-Dichloroethane	ND	1.0	
1,1-Dichloroethane	ND	1.0	
1,1-Dichloroethene	ND	1.0	
cis-1,2-Dichloroethene	20.4	1.0	
trans-1,2-Dichloroethene	ND	1.0	
1,2-Dichloroethene, total	20.4	1.0	
Dichloromethane (MeCl2)	0.7 J	1.0	
1,2-Dichloropropane	ND	1.0	
cis-1,3-Dichloropropene	ND	1.0	
trans-1,3-Dichloropropene	3.1	1.0	
Ethylbenzene	ND	1.0	
2-Hexanone	ND	5.0	
Isopropylbenzene	ND	1.0	
4-Methyl-2-Pentanone (MIBK)	ND	5.0	
Styrene	ND	1.0	
1,1,2,2-Tetrachloroethane	46.9	1.0	
Tetrachloroethene	ND	1.0	
Toluene	ND	1.0	
1,1,2-Trichloroethane	1.7	1.0	
1,1,1-Trichloroethane	ND	1.0	
Trichloroethene	10.9	1.0	
Vinyl Chloride	ND	1.0	
o-Xylene	ND	1.0	
m,p-Xylene	ND	2.0	
Methyl-tert-butyl ether	ND	1.0	
Surr Cmpd - % Rec - Limits			

SURROGATE	%RECOVERY	LIMITS
Dibromofluoromethane	98	86 - 118

Order # 05-10-476
12/05/05 15:00

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TEST RESULTS BY SAMPLE

Sample Description: MW-23

Lab No: 09A

Test Description: GC/MS Volatiles, SW846 8260 Method: SW 846 8260B Test Code: V_RSAA

Collected: 10/29/05 10:05

Category: GW

Toluene-d8	<u>100</u>	<u>88</u>	-	<u>110</u>
4-Bromofluorobenzene	<u>101</u>	<u>86</u>	-	<u>115</u>

Notes and Definitions for this Report:

DATE RUN 11/03/05 19:07:00

ANALYST IM

CONC FACTOR 1

UNITS ug/L

12/05/05 15:00

TEST RESULTS BY SAMPLE

Sample Description: MW-44

Lab No: 10A

Test Description: GC/MS Volatiles, SW846 8260 Method: SW 846 8260B Test Code: V_RSAA

Collected: 10/29/05 12:45

Category: GW

PARAMETER	RESULT	LIMIT	WEIGHT
Acetone	8.4	5.0	
Benzene	ND	1.0	
Bromodichloromethane	ND	1.0	
Bromoform	ND	1.0	
Bromomethane	ND	1.0	
2-Butanone (MEK)	ND	5.0	
Carbon Disulfide	ND	1.0	
Carbon Tetrachloride	ND	1.0	
Chlorobenzene	0.8 J	1.0	
Chloroethane	ND	1.0	
Chloroform	0.8 J	1.0	
Chloromethane	ND	1.0	
Dibromochloromethane	ND	1.0	
1,2-Dibromoethane	ND	1.0	
1,2-Dibromo-3-Chloropropane	ND	1.0	
1,2-Dichloroethane	3.2	1.0	
1,1-Dichloroethane	2.7	1.0	
1,1-Dichloroethene	1.2	1.0	
cis-1,2-Dichloroethene	644	1.0	
trans-1,2-Dichloroethene	408	1.0	
1,2-Dichloroethene, total	1050	1.0	
Dichloromethane (MeCl2)	0.9 J	1.0	
1,2-Dichloropropane	ND	1.0	
cis-1,3-Dichloropropene	ND	1.0	
trans-1,3-Dichloropropene	ND	1.0	
Ethylbenzene	ND	1.0	
2-Hexanone	ND	5.0	
Isopropylbenzene	ND	1.0	
4-Methyl-2-Pentanone (MIBK)	ND	5.0	
Styrene	ND	1.0	
1,1,2,2-Tetrachloroethane	556	1.0	
Tetrachloroethene	2.8	1.0	
Toluene	ND	1.0	
1,1,2-Trichloroethane	22.9	1.0	
1,1,1-Trichloroethane	ND	1.0	
Trichloroethene	157	1.0	
Vinyl Chloride	30.0	1.0	
o-Xylene	ND	1.0	
m,p-Xylene	ND	2.0	
Methyl-tert-butyl ether	ND	1.0	
Surr Cmpd - % Rec - Limits			

SURROGATE	%RECOVERY	LIMITS
Dibromofluoromethane	100	86 - 118

12/05/05 15:00

TEST RESULTS BY SAMPLE

Sample Description: MW-44

Lab No: 10A

Test Description: GC/MS Volatiles, SW846 8260 Method: SW 846 8260B Test Code: V_RSAA

Collected: 10/29/05 12:45

Category: GW

Toluene-d8	<u>98</u>	<u>88</u>	-	<u>110</u>
4-Bromofluorobenzene	<u>101</u>	<u>86</u>	-	<u>115</u>

Notes and Definitions for this Report:

DATE RUN 11/03/05 19:40:00

ANALYST IM

CONC FACTOR 1

UNITS ug/L

12/05/05 15:00

TEST RESULTS BY SAMPLE

Sample Description: MW-42

Lab No: 11A

Test Description: GC/MS Volatiles, SW846 8260 Method: SW 846 8260B Test Code: V_RSAA

Collected: 10/29/05 13:30

Category: GW

PARAMETER	RESULT	LIMIT	WEIGHT
Acetone	6.8	5.0	
Benzene	0.6 J	1.0	
Bromodichloromethane	ND	1.0	
Bromoform	ND	1.0	
Bromomethane	ND	1.0	
2-Butanone (MEK)	ND	5.0	
Carbon Disulfide	ND	1.0	
Carbon Tetrachloride	ND	1.0	
Chlorobenzene	2.8	1.0	
Chloroethane	0.5 J	1.0	
Chloroform	0.9 J	1.0	
Chloromethane	ND	1.0	
Dibromochloromethane	ND	1.0	
1,2-Dibromoethane	ND	1.0	
1,2-Dibromo-3-Chloropropane	ND	1.0	
1,2-Dichloroethane	7.2	1.0	
1,1-Dichloroethane	7.0	1.0	
1,1-Dichloroethene	2.7	1.0	
cis-1,2-Dichloroethene	1050	1.0	
trans-1,2-Dichloroethene	691	1.0	
1,2-Dichloroethene, total	1740	1.0	
Dichloromethane (MeCl2)	2.1	1.0	
1,2-Dichloropropane	ND	1.0	
cis-1,3-Dichloropropene	ND	1.0	
trans-1,3-Dichloropropene	ND	1.0	
Ethylbenzene	ND	1.0	
2-Hexanone	ND	5.0	
Isopropylbenzene	ND	1.0	
4-Methyl-2-Pentanone (MIBK)	ND	5.0	
Styrene	ND	1.0	
1,1,2,2-Tetrachloroethane	876	1.0	
Tetrachloroethene	6.4	1.0	
Toluene	ND	1.0	
1,1,2-Trichloroethane	55.5	1.0	
1,1,1-Trichloroethane	ND	1.0	
Trichloroethene	148	1.0	
Vinyl Chloride	83.6	1.0	
o-Xylene	ND	1.0	
m,p-Xylene	ND	2.0	
Methyl-tert-butyl ether	ND	1.0	
Surr Cmpd - % Rec - Limits			

SURROGATE	%RECOVERY	LIMITS
Dibromofluoromethane	101	86 - 118

12/05/05 15:00

TEST RESULTS BY SAMPLE

Sample Description: MW-42

Lab No: 11A

Test Description: GC/MS Volatiles, SW846 8260 Method: SW 846 8260B Test Code: V_RSAA

Collected: 10/29/05 13:30

Category: GW

Toluene-d8	<u>94</u>	<u>88</u>	-	<u>110</u>
4-Bromofluorobenzene	<u>102</u>	<u>86</u>	-	<u>115</u>

Notes and Definitions for this Report:

DATE RUN 11/03/05 20:14:00

ANALYST IM

CONC FACTOR 1

UNITS ug/L

12/05/05 15:00

TEST RESULTS BY SAMPLE

Sample Description: MW-41

Lab No: 12A

Test Description: GC/MS Volatiles, SW846 8260 Method: SW 846 8260B Test Code: V_RSAA

Collected: 10/29/05 15:30

Category: GW

PARAMETER	RESULT	LIMIT	WEIGHT
Acetone	594	5.0	
Benzene	ND	1.0	
Bromodichloromethane	ND	1.0	
Bromoform	ND	1.0	
Bromomethane	ND	1.0	
2-Butanone (MEK)	ND	5.0	
Carbon Disulfide	ND	1.0	
Carbon Tetrachloride	ND	1.0	
Chlorobenzene	0.6 J	1.0	
Chloroethane	ND	1.0	
Chloroform	ND	1.0	
Chloromethane	ND	1.0	
Dibromochloromethane	ND	1.0	
1,2-Dibromoethane	ND	1.0	
1,2-Dibromo-3-Chloropropane	ND	1.0	
1,2-Dichloroethane	ND	1.0	
1,1-Dichloroethane	ND	1.0	
1,1-Dichloroethene	ND	1.0	
cis-1,2-Dichloroethene	ND	1.0	
trans-1,2-Dichloroethene	ND	1.0	
1,2-Dichloroethene, total	ND	1.0	
Dichloromethane (MeCl ₂)	ND	1.0	
1,2-Dichloropropane	ND	1.0	
cis-1,3-Dichloropropene	ND	1.0	
trans-1,3-Dichloropropene	ND	1.0	
Ethylbenzene	ND	1.0	
2-Hexanone	ND	5.0	
Isopropylbenzene	ND	1.0	
4-Methyl-2-Pentanone (MIBK)	ND	5.0	
Styrene	ND	1.0	
1,1,2,2-Tetrachloroethane	8.0	1.0	
Tetrachloroethene	0.6 J	1.0	
Toluene	ND	1.0	
1,1,2-Trichloroethane	ND	1.0	
1,1,1-Trichloroethane	ND	1.0	
Trichloroethene	0.6 J	1.0	
Vinyl Chloride	ND	1.0	
o-Xylene	ND	1.0	
m,p-Xylene	ND	2.0	
Methyl-tert-butyl ether	ND	1.0	
Surr Cmpd - * Rec - Limits			

SURROGATE	%RECOVERY	LIMITS
Dibromofluoromethane	106	86 - 118

Order # 05-10-476
12/05/05 15:00

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TEST RESULTS BY SAMPLE

Sample Description: MW-41 Lab No: 12A
Test Description: GC/MS Volatiles, SW846 8260 Method: SW 846 8260B Test Code: V_RSAA
Collected: 10/29/05 15:30 Category: GW

Toluene-d8	<u>98</u>	<u>88</u>	-	<u>110</u>
4 Bromofluorobenzene	<u>96</u>	<u>86</u>	-	<u>115</u>

Notes and Definitions for this Report:

DATE RUN 11/08/05 17:11:00
ANALYST JPG
CONC FACTOR 1
UNITS ug/L

12/05/05 15:00

TEST RESULTS BY SAMPLE

Sample Description: MW-41 MS

Lab No: 12B

Test Description: GC/MS Volatiles, SW846 8260 Method: SW 846 8260B Test Code: V_RSAA

Collected: 10/29/05 15:30

Category: GW

PARAMETER	RESULT	LIMIT	WEIGHT
Acetone	<u>1290-279</u>	<u>5.0</u>	---
Benzene	<u>55.3-111</u>	<u>1.0</u>	---
Bromodichloromethane	<u>58.0-116</u>	<u>1.0</u>	---
Bromoform	<u>55.2-110</u>	<u>1.0</u>	---
Bromomethane	<u>55.2-110</u>	<u>1.0</u>	---
2-Butanone (MEK)	<u>273-109</u>	<u>5.0</u>	---
Carbon Disulfide	<u>58.7-117</u>	<u>1.0</u>	---
Carbon Tetrachloride	<u>79.8-159</u>	<u>1.0</u>	---
Chlorobenzene	<u>52.2-103</u>	<u>1.0</u>	---
Chloroethane	<u>52.7-105</u>	<u>1.0</u>	---
Chloroform	<u>60.1-120</u>	<u>1.0</u>	---
Chloromethane	<u>54.5-108</u>	<u>1.0</u>	---
Dibromochloromethane	<u>53.6-107</u>	<u>1.0</u>	---
1,2-Dibromoethane	<u>50.7-101</u>	<u>1.0</u>	---
1,2-Dibromo-3-Chloropropane	<u>45.4-91</u>	<u>1.0</u>	---
1,2-Dichloroethane	<u>53.9-107</u>	<u>1.0</u>	---
1,1-Dichloroethane	<u>35.0-70</u>	<u>1.0</u>	---
1,1-Dichloroethene	<u>52.0-104</u>	<u>1.0</u>	---
cis-1,2-Dichloroethene	<u>53.9-107</u>	<u>1.0</u>	---
trans-1,2-Dichloroethene	<u>53.9-107</u>	<u>1.0</u>	---
1,2-Dichloroethene, total	<u>ND</u>	<u>1.0</u>	---
Dichloromethane (MeCl ₂)	<u>53.1-106</u>	<u>1.0</u>	---
1,2-Dichloropropane	<u>52.6-105</u>	<u>1.0</u>	---
cis-1,3-Dichloropropene	<u>53.4-107</u>	<u>1.0</u>	---
trans-1,3-Dichloropropene	<u>57.3-115</u>	<u>1.0</u>	---
Ethylbenzene	<u>54.4-109</u>	<u>1.0</u>	---
2-Hexanone	<u>138-110</u>	<u>5.0</u>	---
Isopropylbenzene	<u>59.5-119</u>	<u>1.0</u>	---
4-Methyl-2-Pentanone (MIBK)	<u>138-110</u>	<u>5.0</u>	---
Styrene	<u>60.0-120</u>	<u>1.0</u>	---
1,1,2,2-Tetrachloroethane	<u>61.1-106</u>	<u>1.0</u>	---
Tetrachloroethene	<u>55.1-109</u>	<u>1.0</u>	---
Toluene	<u>55.3-111</u>	<u>1.0</u>	---
1,1,2-Trichloroethane	<u>51.8-104</u>	<u>1.0</u>	---
1,1,1-Trichloroethane	<u>59.5-119</u>	<u>1.0</u>	---
Trichloroethene	<u>53.8-106</u>	<u>1.0</u>	---
Vinyl Chloride	<u>56.5-113</u>	<u>1.0</u>	---
o-Xylene	<u>53.3-107</u>	<u>1.0</u>	---
m,p-Xylene	<u>107-107</u>	<u>2.0</u>	---
Methyl-tert-butyl ether	<u>50.9-102</u>	<u>1.0</u>	---
Surr Compd - % Rec - Limits	---	---	---

SURROGATE	%RECOVERY	LIMITS
Dibromofluoromethane	<u>106</u>	<u>86 - 118</u>

12/05/05 15:00

TEST RESULTS BY SAMPLE

Sample Description: MW-41 MS

Lab No: 12B

Test Description: GC/MS Volatiles, SW846 8260 Method: SW 846 8260B Test Code: V_RSAA

Collected: 10/29/05 15:30

Category: GW

Toluene-d8	<u>103</u>	<u>88</u>	-	<u>110</u>
4 Bromofluorobenzene	<u>104</u>	<u>86</u>	-	<u>115</u>

Notes and Definitions for this Report:

DATE RUN 11/08/05 17:44:00

ANALYST JPG

CONC FACTOR 1

UNITS ug/L-% Recovery

12/05/05 15:00

TEST RESULTS BY SAMPLE

Sample Description: MW-41 MSD

Lab No: 12C

Test Description: GC/MS Volatiles, SW846 8260 Method: SW 846 8260B Test Code: V_RSAA

Collected: 10/29/05 15:30

Category: GW

PARAMETER	RESULT	LIMIT	WEIGHT
Acetone	1040-179	5.0	---
Benzene	53.0-106	1.0	---
Bromodichloromethane	56.2-112	1.0	---
Bromoform	52.7-105	1.0	---
Bromomethane	56.8-114	1.0	---
2-Butanone (MEK)	259-103	5.0	---
Carbon Disulfide	56.1-112	1.0	---
Carbon Tetrachloride	78.2-156	1.0	---
Chlorobenzene	51.2-101	1.0	---
Chloroethane	51.4-103	1.0	---
Chloroform	59.1-118	1.0	---
Chloromethane	52.5-104	1.0	---
Dibromochloromethane	52.2-104	1.0	---
1,2-Dibromoethane	49.2-98	1.0	---
1,2-Dibromo-3-Chloropropane	45.9-92	1.0	---
1,2-Dichloroethane	52.4-104	1.0	---
1,1-Dichloroethane	42.1-84	1.0	---
1,1-Dichloroethene	49.3-99	1.0	---
cis-1,2-Dichloroethene	52.7-105	1.0	---
trans-1,2-Dichloroethene	53.1-106	1.0	---
1,2-Dichloroethene, total	ND	1.0	---
Dichloromethane (MeCl2)	50.8-102	1.0	---
1,2-Dichloropropane	51.4-103	1.0	---
cis 1,3-Dichloropropene	52.7-105	1.0	---
trans-1,3-Dichloropropene	56.0-112	1.0	---
Ethylbenzene	53.9-108	1.0	---
2-Hexanone	131-105	5.0	---
Isopropylbenzene	58.7-117	1.0	---
4-Methyl-2-Pentanone (MIBK)	130-104	5.0	---
Styrene	58.4-117	1.0	---
1,1,2,2-Tetrachloroethane	57.9-100	1.0	---
Tetrachloroethene	54.6-108	1.0	---
Toluene	53.8-108	1.0	---
1,1,2-Trichloroethane	49.4-99	1.0	---
1,1,1-Trichloroethane	59.4-119	1.0	---
Trichloroethene	52.7-104	1.0	---
Vinyl Chloride	52.6-105	1.0	---
o-Xylene	52.6-105	1.0	---
m,p-Xylene	106-106	2.0	---
Methyl-tert-butyl ether	50.1-100	1.0	---
Surr Compd - % Rec - Limits	---	---	---

SURROGATE	%RECOVERY	LIMITS
Dibromofluoromethane	107	86 - 118

12/05/05 15:00

TEST RESULTS BY SAMPLE

Sample Description: MW-41 MSD

Lab No: 12C

Test Description: GC/MS Volatiles, SW846 8260 Method: SW 846 8260B Test Code: V_RSAA

Collected: 10/29/05 15:30

Category: GW

Toluene-d8	<u>102</u>	<u>38</u>	-	<u>110</u>
4-Bromofluorobenzene	<u>102</u>	<u>86</u>	-	<u>115</u>

Notes and Definitions for this Report:

DATE RUN 11/08/05 18:17:00

ANALYST JPG

CONC FACTOR 1

UNITS ug/L-~~1~~ Recovery

12/05/05 15:00

TEST RESULTS BY SAMPLE

Sample Description: MW-40

Lab No: 13A

Test Description: GC/MS Volatiles, SW846 8260

Method: SW 846 8260B Test Code: V_RSAA

Collected: 10/29/05 17:00

Category: GW

PARAMETER	RESULT	LIMIT	WEIGHT
Acetone	77.5	5.0	
Benzene	ND	1.0	
Bromodichloromethane	ND	1.0	
Bromoform	ND	1.0	
Bromomethane	ND	1.0	
2-Butanone (MEK)	ND	5.0	
Carbon Disulfide	ND	1.0	
Carbon Tetrachloride	ND	1.0	
Chlorobenzene	ND	1.0	
Chloroethane	ND	1.0	
Chloroform	ND	1.0	
Chloromethane	ND	1.0	
Dibromochloromethane	ND	1.0	
1,2-Dibromoethane	ND	1.0	
1,2-Dibromo-3-Chloropropane	ND	1.0	
1,2-Dichloroethane	ND	1.0	
1,1-Dichloroethane	ND	1.0	
1,1-Dichloroethene	ND	1.0	
cis-1,2-Dichloroethene	1.4	1.0	
trans-1,2-Dichloroethene	ND	1.0	
1,2-Dichloroethene, total	1.4	1.0	
Dichloromethane (MeCl2)	ND	1.0	
1,2-Dichloropropane	ND	1.0	
cis-1,3-Dichloropropene	ND	1.0	
trans-1,3-Dichloropropene	ND	1.0	
Ethylbenzene	ND	1.0	
2-Hexanone	ND	5.0	
Isopropylbenzene	ND	1.0	
4-Methyl-2-Pentanone (MIBK)	ND	5.0	
Styrene	ND	1.0	
1,1,2,2-Tetrachloroethane	58.0	1.0	
Tetrachloroethene	11.0	1.0	
Toluene	ND	1.0	
1,1,2-Trichloroethane	2.1	1.0	
1,1,1-Trichloroethane	16.8	1.0	
Trichloroethene	ND	1.0	
Vinyl Chloride	ND	1.0	
o-Xylene	ND	1.0	
m,p-Xylene	ND	2.0	
Methyl-tert-butyl ether	ND	1.0	
Surr Compd - % Rec - Limits			

SURRGATE	%RECOVERY	LIMITS
Dibromofluoromethane	104	86 - 118

Order # 05-10-476
12/05/05 15:00

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TEST RESULTS BY SAMPLE

Sample Description: MW-40

Lab No: 13A

Test Description: GC/MS Volatiles, SW846 8260 Method: SW 846 8260B Test Code: V_RSAA

Collected: 10/29/05 17:00

Category: GW

Toluene-d8	<u>98</u>	<u>88</u>	-	<u>110</u>
4-Bromofluorobenzene	<u>96</u>	<u>86</u>	-	<u>115</u>

Notes and Definitions for this Report:

DATE RUN 11/08/05 09:30:00

ANALYST JPG

CONC FACTOR 1

UNITS ug/L

TEST RESULTS BY SAMPLE

Sample Description: MW-38 Lab No: 14A
 Test Description: GC/MS Volatiles, SW846 8260 Method: SW 846 8260B Test Code: V_RSAA
 Collected: 10/29/05 17:55 Category: GW

PARAMETER	RESULT	LIMIT	WEIGHT
Acetone	318	5.0	
Benzene	ND	1.0	
Bromodichloromethane	ND	1.0	
Bromoform	ND	1.0	
Bromomethane	ND	1.0	
2-Butanone (MEK)	ND	5.0	
Carbon Disulfide	ND	1.0	
Carbon Tetrachloride	ND	1.0	
Chlorobenzene	ND	1.0	
Chloroethane	0.7 J	1.0	
Chloroform	ND	1.0	
Chloromethane	ND	1.0	
Dibromochloromethane	ND	1.0	
1,2-Dibromoethane	ND	1.0	
1,2-Dibromo-3-Chloropropane	ND	1.0	
1,2-Dichloroethane	ND	1.0	
1,1-Dichloroethane	ND	1.0	
1,1-Dichloroethene	ND	1.0	
cis-1,2-Dichloroethene	0.5 J	1.0	
trans-1,2-Dichloroethene	ND	1.0	
1,2-Dichloroethene, total	0.5 J	1.0	
Dichloromethane (MeCl2)	ND	1.0	
1,2-Dichloropropane	ND	1.0	
cis-1,3-Dichloropropene	ND	1.0	
trans-1,3-Dichloropropene	ND	1.0	
Ethylbenzene	ND	1.0	
2-Hexanone	ND	5.0	
Isopropylbenzene	ND	1.0	
4-Methyl-2-Pentanone (MIBK)	ND	5.0	
Styrene	ND	1.0	
1,1,2,2-Tetrachloroethane	6.7	1.0	
Tetrachloroethene	ND	1.0	
Toluene	ND	1.0	
1,1,2-Trichloroethane	ND	1.0	
1,1,1-Trichloroethane	ND	1.0	
Trichloroethene	0.7 J	1.0	
Vinyl Chloride	ND	1.0	
o Xylene	ND	1.0	
m,p-Xylene	ND	2.0	
Methyl-tert-butyl ether	ND	1.0	
Surr Compd - % Rec - Limits			

SURROGATE	%RECOVERY	LIMITS
Dibromofluoromethane	104	86 - 118

12/05/05 15:00

TEST RESULTS BY SAMPLE

Sample Description: MW-38

Lab No: 14A

Test Description: GC/MS Volatiles, SW846 8260 Method: SW 846 8260B Test Code: V_RSAA

Collected: 10/29/05 17:55

Category: GW

Toluene-d8	<u>98</u>	<u>88</u>	-	<u>110</u>
4-Bromofluorobenzene	<u>96</u>	<u>86</u>	-	<u>115</u>

Notes and Definitions for this Report:

DATE RUN 11/08/05 10:03:00

ANALYST JPG

CONC FACTOR 1

UNITS ug/L

12/05/05 15:00

TEST RESULTS BY SAMPLE

Sample Description: MW-33

Lab No: 15A

Test Description: GC/MS Volatiles, SW846 8260 Method: SW 846 8260B Test Code: V_RSAA

Collected: 10/30/05 08:47

Category: GW

PARAMETER	RESULT	LIMIT	WEIGHT
Acetone	97.1	5.0	
Benzene	ND	1.0	
Bromodichloromethane	ND	1.0	
Bromoform	ND	1.0	
Bromomethane	ND	1.0	
2-Butanone (MEK)	ND	5.0	
Carbon Disulfide	ND	1.0	
Carbon Tetrachloride	ND	1.0	
Chlorobenzene	ND	1.0	
Chloroethane	ND	1.0	
Chloroform	ND	1.0	
Chloromethane	ND	1.0	
Dibromochloromethane	ND	1.0	
1,2-Dibromoethane	ND	1.0	
1,2-Dibromo-3-Chloropropane	ND	1.0	
1,2-Dichloroethane	ND	1.0	
1,1-Dichloroethane	ND	1.0	
1,1-Dichloroethene	ND	1.0	
cis-1,2-Dichloroethene	ND	1.0	
trans-1,2-Dichloroethene	ND	1.0	
1,2-Dichloroethene, total	ND	1.0	
Dichloromethane (MeCl2)	ND	1.0	
1,2-Dichloropropane	ND	1.0	
cis-1,3-Dichloropropene	ND	1.0	
trans-1,3-Dichloropropene	ND	1.0	
Ethylbenzene	ND	1.0	
2-Hexanone	ND	5.0	
Isopropylbenzene	ND	1.0	
4-Methyl-2-Pentanone (MIBK)	ND	5.0	
Styrene	ND	1.0	
1,1,2,2-Tetrachloroethane	5.6	1.0	
Tetrachloroethene	ND	1.0	
Toluene	ND	1.0	
1,1,2-Trichloroethane	ND	1.0	
1,1,1-Trichloroethane	ND	1.0	
Trichloroethene	1.7	1.0	
Vinyl Chloride	ND	1.0	
o-Xylene	ND	1.0	
m,p Xylene	ND	2.0	
Methyl-tert-butyl ether	ND	1.0	
Surr Cmpd - % Rec - Limits			

SURROGATE	%RECOVERY	LIMITS
Dibromofluoromethane	104	86 - 118

12/05/05 15:00

TEST RESULTS BY SAMPLE

Sample Description: MW-33

Lab No: 15A

Test Description: GC/MS Volatiles, SW846 8260 Method: SW 846 8260B Test Code: V_RSAA

Collected: 10/30/05 08:47

Category: GW

Toluene-d8	<u>99</u>	<u>88</u>	-	<u>110</u>
4-Bromofluorobenzene	<u>96</u>	<u>86</u>	-	<u>115</u>

Notes and Definitions for this Report:

DATE RUN 11/08/05 10:36:00

ANALYST JPG

CONC FACTOR 1

UNITS ug/L

12/05/05 15:00

TEST RESULTS BY SAMPLE

Sample Description: MW-35

Lab No: 16A

Test Description: GC/MS Volatiles, SW846 8260 Method: SW 846 8260B Test Code: V_RSAA

Collected: 10/30/05 10:08

Category: GW

PARAMETER	RESULT	LIMIT	WEIGHT
Acetone	2.6 J	5.0	
Benzene	ND	1.0	
Bromodichloromethane	ND	1.0	
Bromoform	ND	1.0	
Bromomethane	ND	1.0	
2-Butanone (MEK)	ND	5.0	
Carbon Disulfide	ND	1.0	
Carbon Tetrachloride	ND	1.0	
Chlorobenzene	ND	1.0	
Chloroethane	ND	1.0	
Chloroform	ND	1.0	
Chloromethane	ND	1.0	
Dibromochloromethane	ND	1.0	
1,2-Dibromoethane	ND	1.0	
1,2-Dibromo-3 Chloropropane	ND	1.0	
1,2-Dichloroethane	ND	1.0	
1,1-Dichloroethane	ND	1.0	
1,1-Dichloroethene	ND	1.0	
cis-1,2-Dichloroethene	0.6 J	1.0	
trans-1,2-Dichloroethene	ND	1.0	
1,2-Dichloroethene, total	0.6 J	1.0	
Dichloromethane (MeCl2)	ND	1.0	
1,2-Dichloropropane	ND	1.0	
cis-1,3-Dichloropropene	ND	1.0	
trans-1,3-Dichloropropene	ND	1.0	
Ethylbenzene	ND	1.0	
2-Hexanone	ND	5.0	
Isopropylbenzene	ND	1.0	
4-Methyl-2-Pentanone (MIBK)	ND	5.0	
Styrene	ND	1.0	
1,1,2,2-Tetrachloroethane	16.4	1.0	
Tetrachloroethene	ND	1.0	
Toluene	ND	1.0	
1,1,2-Trichloroethane	ND	1.0	
1,1,1-Trichloroethane	ND	1.0	
Trichloroethene	1.5	1.0	
Vinyl Chloride	ND	1.0	
o-Xylene	ND	1.0	
m,p-Xylene	ND	2.0	
Methyl-tert-butyl ether	ND	1.0	
Surr Cmpd - % Rec - Limits			

SURROGATE	%RECOVERY	LIMITS
Dibromofluoromethane	101	86 - 118

12/05/05 15:00

TEST RESULTS BY SAMPLE

Sample Description: MW-35

Lab No: 16A

Test Description: GC/MS Volatiles, SW846 8260 Method: SW 846 8260B Test Code: V_RSAA

Collected: 10/30/05 10:08

Category: GW

Toluene-d8	<u>101</u>	<u>88</u>	-	<u>110</u>
4-Bromofluorobenzene	<u>99</u>	<u>86</u>	-	<u>115</u>

Notes and Definitions for this Report:

DATE RUN 11/03/05 22:27:00

ANALYST IM

CONC FACTOR 1

UNITS ug/L

12/05/05 15:00

TEST RESULTS BY SAMPLE

Sample Description: MW-36

Lab No: 17A

Test Description: GC/MS Volatiles, SW846 8260 Method: SW 846 8260B Test Code: V_RSAA

Collected: 10/30/05 11:40

Category: GW

Toluene-d8	<u>97</u>	<u>88</u>	-	<u>110</u>
4-Bromofluorobenzene	<u>96</u>	<u>86</u>	-	<u>115</u>

Notes and Definitions for this Report:

DATE RUN 11/08/05 22:40:00

ANALYST JPG

CONC FACTOR 1

UNITS ug/L

12/05/05 15:00

TEST RESULTS BY SAMPLE

Sample Description: MW-34

Lab No: 18A

Test Description: GC/MS Volatiles, SW846 8260 Method: SW 846 8260B Test Code: V_RSAA

Collected: 10/30/05 12:53

Category: GW

PARAMETER	RESULT	LIMIT	WEIGHT
Acetone	28.4	5.0	
Benzene	ND	1.0	
Bromodichloromethane	ND	1.0	
Bromoform	ND	1.0	
Bromomethane	ND	1.0	
2-Butanone (MEK)	ND	5.0	
Carbon Disulfide	ND	1.0	
Carbon Tetrachloride	ND	1.0	
Chlorobenzene	ND	1.0	
Chloroethane	ND	1.0	
Chloroform	ND	1.0	
Chloromethane	ND	1.0	
Dibromochloromethane	ND	1.0	
1,2-Dibromoethane	ND	1.0	
1,2-Dibromo-3-Chloropropane	ND	1.0	
1,2-Dichloroethane	ND	1.0	
1,1-Dichloroethane	ND	1.0	
1,1-Dichloroethene	ND	1.0	
cis 1,2-Dichloroethene	ND	1.0	
trans-1,2-Dichloroethene	ND	1.0	
1,2-Dichloroethene, total	ND	1.0	
Dichloromethane (MeCl2)	ND	1.0	
1,2-Dichloropropane	ND	1.0	
cis-1,3-Dichloropropene	ND	1.0	
trans-1,3-Dichloropropene	ND	1.0	
Ethylbenzene	ND	1.0	
2-Hexanone	ND	5.0	
Isopropylbenzene	ND	1.0	
4-Methyl-2-Pentanone (MIBK)	ND	5.0	
Styrene	ND	1.0	
1,1,2,2-Tetrachloroethane	ND	1.0	
Tetrachloroethene	4.7	1.0	
Toluene	ND	1.0	
1,1,2-Trichloroethane	ND	1.0	
1,1,1-Trichloroethane	ND	1.0	
Trichloroethene	0.7 J	1.0	
Vinyl Chloride	ND	1.0	
o-Xylene	ND	1.0	
m,p-Xylene	ND	2.0	
Methyl-tert-butyl ether	ND	1.0	
Surr Compd - % Rec - Limits			

SURROGATE	%RECOVERY	LIMITS
Dibromofluoromethane	104	86 - 118

12/05/05 15:00

TEST RESULTS BY SAMPLE

Sample Description: MW-34

Lab No: 18A

Test Description: GC/MS Volatiles, SW846 8260 Method: SW 846 8260B Test Code: V_RSAA

Collected: 10/30/05 12:53

Category: GW

Toluene-d8	<u>98</u>	<u>88</u>	-	<u>110</u>
4-Bromofluorobenzene	<u>96</u>	<u>86</u>	-	<u>115</u>

Notes and Definitions for this Report:

DATE RUN 11/08/05 23:13:00

ANALYST JPG

CONC FACTOR 1

UNITS ug/L

12/05/05 15:00

TEST RESULTS BY SAMPLE

Sample Description: MW-37

Lab No: 19A

Test Description: GC/MS Volatiles, SW846 8260 Method: SW 846 8260B Test Code: V_RSAA

Collected: 10/30/05 14:53

Category: GW

PARAMETER	RESULT	LIMIT	WEIGHT
Acetone	116	5.0	
Benzene	ND	1.0	
Bromodichloromethane	ND	1.0	
Bromoform	ND	1.0	
Bromomethane	ND	1.0	
2-Butanone (MEK)	ND	5.0	
Carbon Disulfide	ND	1.0	
Carbon Tetrachloride	ND	1.0	
Chlorobenzene	ND	1.0	
Chloroethane	ND	1.0	
Chloroform	ND	1.0	
Chloromethane	ND	1.0	
Dibromochloromethane	ND	1.0	
1,2-Dibromoethane	ND	1.0	
1,2-Dibromo-3-Chloropropane	ND	1.0	
1,2-Dichloroethane	ND	1.0	
1,1-Dichloroethane	ND	1.0	
1,1-Dichloroethene	0.6 J	1.0	
cis-1,2-Dichloroethene	2.8	1.0	
trans-1,2-Dichloroethene	1.5	1.0	
1,2-Dichloroethene, total	4.3	1.0	
Dichloromethane (MeCl2)	ND	1.0	
1,2-Dichloropropane	ND	1.0	
cis-1,3-Dichloropropene	ND	1.0	
trans-1,3-Dichloropropene	ND	1.0	
Ethylbenzene	ND	1.0	
2-Hexanone	ND	5.0	
Isopropylbenzene	ND	1.0	
4-Methyl-2-Pentanone (MIBK)	ND	5.0	
Styrene	ND	1.0	
1,1,2,2-Tetrachloroethane	293	1.0	
Tetrachloroethene	8.6	1.0	
Toluene	ND	1.0	
1,1,2-Trichloroethane	0.5 J	1.0	
1,1,1-Trichloroethane	4.5	1.0	
Trichloroethene	52.8	1.0	
Vinyl Chloride	ND	1.0	
o Xylene	ND	1.0	
m,p-Xylene	ND	2.0	
Methyl-tert-butyl ether	1.3	1.0	
Surr Cmpd - % Rec - Limits			

SURROGATE	%RECOVERY	LIMITS
Dibromofluoromethane	106	86 - 118

12/05/05 15:00

TEST RESULTS BY SAMPLE

Sample Description: MW-37

Lab No: 19A

Test Description: GC/MS Volatiles, SW846 8260 Method: SW 846 8260B Test Code: V_RSAA

Collected: 10/30/05 14:53

Category: GW

Toluene-d8	<u>102</u>	<u>88</u>	-	<u>110</u>
4-Bromofluorobenzene	<u>96</u>	<u>86</u>	-	<u>115</u>

Notes and Definitions for this Report:

DATE RUN 11/08/05 13:54:00

ANALYST JPG

CONC FACTOR 1

UNITS ug/L

TEST RESULTS BY SAMPLE

Sample Description: EQUIPMENT BLANK Lab No: 20A
Test Description: GC/MS Volatiles, SW846 8260 Method: SW 846 8260B Test Code: V_RSAA
Collected: 10/30/05 10:35 Category: GW

PARAMETER	RESULT	LIMIT	WEIGHT
Acetone	ND	5.0	---
Benzene	ND	1.0	---
Bromodichloromethane	ND	1.0	---
Bromoform	ND	1.0	---
Bromomethane	ND	1.0	---
2-Butanone (MEK)	ND	5.0	---
Carbon Disulfide	ND	1.0	---
Carbon Tetrachloride	ND	1.0	---
Chlorobenzene	ND	1.0	---
Chloroethane	ND	1.0	---
Chloroform	ND	1.0	---
Chloromethane	ND	1.0	---
Dibromochloromethane	ND	1.0	---
1,2-Dibromoethane	ND	1.0	---
1,2-Dibromo-3-Chloropropane	ND	1.0	---
1,2-Dichloroethane	ND	1.0	---
1,1-Dichloroethane	ND	1.0	---
1,1-Dichloroethene	ND	1.0	---
cis-1,2-Dichloroethene	ND	1.0	---
trans-1,2-Dichloroethene	ND	1.0	---
1,2-Dichloroethene, total	ND	1.0	---
Dichloromethane (MeCl2)	ND	1.0	---
1,2-Dichloropropane	ND	1.0	---
cis-1,3-Dichloropropene	ND	1.0	---
trans-1,3-Dichloropropene	ND	1.0	---
Ethylbenzene	ND	1.0	---
2-Hexanone	ND	5.0	---
Isopropylbenzene	ND	1.0	---
4-Methyl-2-Pentanone (MIBK)	ND	5.0	---
Styrene	ND	1.0	---
1,1,2,2-Tetrachloroethane	ND	1.0	---
Tetrachloroethene	ND	1.0	---
Toluene	ND	1.0	---
1,1,2-Trichloroethane	ND	1.0	---
1,1,1-Trichloroethane	ND	1.0	---
Trichloroethene	ND	1.0	---
Vinyl Chloride	ND	1.0	---
o-xylene	ND	1.0	---
m,p-Xylene	ND	2.0	---
Methyl-tert-butyl ether	ND	1.0	---
Surr Cmpd - % Rec - Limits			

SURROGATE	%RECOVERY	LIMITS
Dibromofluoromethane	97	86 - 118

12/05/05 15:00

TEST RESULTS BY SAMPLE

Sample Description: EQUIPMENT BLANK

Lab No: 20A

Test Description: GC/MS Volatiles, SW846 8260 Method: SW 846 8260B Test Code: V_RSAA

Collected: 10/30/05 10:35

Category: GW

Toluene-d8	<u>100</u>	<u>88</u>	-	<u>110</u>
4-Bromofluorobenzene	<u>102</u>	<u>86</u>	-	<u>115</u>

Notes and Definitions for this Report:

DATE RUN 11/03/05 15:48:00

ANALYST IM

CONC FACTOR 1

UNITS ug/L

TEST RESULTS BY SAMPLE

Sample Description: TRIP BLANK

Lab No: 21A

Test Description: GC/MS Volatiles, SW846 8260 Category: GW 846 8260B Test Code: V_RSAA

PARAMETER	RESULT	LIMIT	WEIGHT
Acetone	ND	5.0	
Benzene	ND	1.0	
Bromodichloromethane	ND	1.0	
Bromoform	ND	1.0	
Bromomethane	ND	1.0	
2-Butanone (MEK)	ND	5.0	
Carbon Disulfide	ND	1.0	
Carbon Tetrachloride	ND	1.0	
Chlorobenzene	ND	1.0	
Chloroethane	ND	1.0	
Chloroform	ND	1.0	
Chloromethane	ND	1.0	
Dibromochloromethane	ND	1.0	
1,2-Dibromoethane	ND	1.0	
1,2-Dibromo-3-Chloropropane	ND	1.0	
1,2-Dichloroethane	ND	1.0	
1,1-Dichloroethane	ND	1.0	
1,1-Dichloroethene	ND	1.0	
cis-1,2-Dichloroethene	ND	1.0	
trans-1,2-Dichloroethene	ND	1.0	
1,2-Dichloroethene, total	ND	1.0	
Dichloromethane (MeCl2)	ND	1.0	
1,2-Dichloropropane	ND	1.0	
cis-1,3-Dichloropropene	ND	1.0	
trans-1,3-Dichloropropene	ND	1.0	
Ethylbenzene	ND	1.0	
2-Hexanone	ND	5.0	
Isopropylbenzene	ND	1.0	
4-Methyl-2-Pentanone (MIBK)	ND	5.0	
Styrene	ND	1.0	
1,1,2,2-Tetrachloroethane	ND	1.0	
Tetrachloroethene	ND	1.0	
Toluene	ND	1.0	
1,1,2-Trichloroethane	ND	1.0	
1,1,1-Trichloroethane	ND	1.0	
Trichloroethene	ND	1.0	
Vinyl Chloride	ND	1.0	
o-Xylene	ND	1.0	
m,p-Xylene	ND	2.0	
Methyl-tert-butyl ether	ND	1.0	
Surr Cmpd - % Rec - Limits			

SURROGATE	%RECOVERY	LIMITS
Dibromofluoromethane	94	86 - 118
Toluene-d8	100	88 - 110

12/05/05 15:00

TEST RESULTS BY SAMPLE

Sample Description: TRIP BLANK

Lab No: 21A

Test Description: GC/MS Volatiles, SW846 8260 Category: GW 846 8260B Test Code: V_RSAA

4-Bromofluorobenzene 101 86 - 115

Notes and Definitions for this Report:

DATE RUN 12/03/05 16:22:00

ANALYST IM

CONC FACTOR 1

UNITS ug/L

Order # 05-10-476
12/05/05 15:00

TEST METHODOLOGIES

Page 48

Volatile Organics by GC/MS (aqueous)
SW846 Method 8260B (purge & trap, capillary column GC/MS)

CHAIN OF CUSTODY RECORD

PROJECT NAME _____
 COMPANY SEE PAGE 1 of 1
 ADDRESS RSA, Inc
 PHONE () _____



ATLANTIC COAST
 Laboratories, Incorporated

630 Churchmans Road
 Newark, Delaware 19702
 302-266-9121 • 454-8720 (FAX)
 ACLI@atlanticcoastlabs.com
 WWW.ATLANTICCOASTLABS.COM

PAGE 2 of 2

SAMPLED BY Charles A Montero
 SIGNATURE Charles A Montero
 PRINT NAME _____

SAMPLE COLLECTION FEE: _____
 QUOTED PRICE: _____

ANALYSES
 (Diagonal hatched area)

SAMPLE NO	DATE	TIME	SAMPLE LOCATION	CONTAINER		GRAB	COMP	NO. OF CONTAINERS	SAMPLE MATRIX	PRESERVATIVE	VOCs (LIST)	COMMENTS
				SIZE	G.P.							
	10/29/05	1535	MW-41 MSD	40 G		✓		3	H ₂ O	HCL	✓	LIST: previous/ established list of parameters
	10/30/05	0847	MW-33	40 G		✓		3	H ₂ O	HCL	✓	
	10/30/05	1008	MW-35	40 G		✓		3	H ₂ O	HCL	✓	
	10/30/05	1140	MW-36	40 G		✓		3	H ₂ O	HCL	✓	
	10/30/05	1258	MW-34	40 G		✓		3	H ₂ O	HCL	✓	
	10/30/05	1753	MW-37	40 G		✓		3	H ₂ O	HCL	✓	
	10/30/05	1035	10-30-05 EQUIPMENT BLANK	40 G		✓		2	H ₂ O	HCL	✓	
			LAB PREPARED TRIP BLANK	40 G		✓		2	H ₂ O		✓	

Page 3

Relinquished by:	Date / Time	Received by:	Relinquished by:	Date / Time	Received by:
Relinquished by:	Date / Time	Received by:	Relinquished by: <u>Charles A Montero</u>	Date / Time: <u>10/31/05 9:50</u>	Received for Laboratory by: <u>RFL</u>
Method of Shipment	Remarks	Samples Iced <u>3</u>		YES <input type="checkbox"/>	NO <input type="checkbox"/>
		Samples Preserved		YES <input type="checkbox"/>	NO <input type="checkbox"/>



ATLANTIC COAST
Laboratories, Incorporated

630 Churchmans Road
Newark, Delaware 19702
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REPORT OF ANALYSIS

Rosengarten, Smith & Assoc.
2222 Western Trails Blvd.
Suite 300
Austin, TX 78745
Attn: Mr. Charles Montero
Invoice Number: 113917

Order #: 05-10-477
Date: 11/16/05 11:57
Work ID: GE Railcar, Elkton
Date Received: 10/31/05
Date Completed: 11/16/05
Client Code: RSA

SAMPLE IDENTIFICATION

<u>Sample Number</u>	<u>Sample Description</u>	<u>Sample Number</u>	<u>Sample Description</u>
01	TRIP BLANK	10	MW-43
02	OSMW-14	11	MW-3
03	OSMW-12	12	MW-1
04	OSMW-11	13	MW-20
05	OSMW-3	14	MW-21
06	OSMW-2	15	MW-19
07	MW-17	16	MW-16
08	MW-2	17	MW-15
09	S-6	18	EQUIPMENT BLANK

This cover page is an integral part of the analytical report.

Laboratory Certifications: DE DE00011 PA 68-335
MD 138 NJ DE568

Warren Van Arsdall

Certified By
Warren Van Arsdall

TEST RESULTS BY SAMPLE

Sample Description: TRIP BLANK

Lab No: 01A

Test Description: GC/MS Volatiles, SW846 8260 Category: GW 846 8260B Test Code: V_RSAA

PARAMETER	RESULT	LIMIT	WEIGHT
Acetone	ND	5.0	
Benzene	ND	1.0	
Bromodichloromethane	ND	1.0	
Bromoform	ND	1.0	
Bromomethane	ND	1.0	
2-Butanone (MEK)	ND	5.0	
Carbon Disulfide	ND	1.0	
Carbon Tetrachloride	ND	1.0	
Chlorobenzene	ND	1.0	
Chloroethane	ND	1.0	
Chloroform	ND	1.0	
Chloromethane	ND	1.0	
Dibromochloromethane	ND	1.0	
1,2-Dibromoethane	ND	1.0	
1,2-Dibromo-3-Chloropropane	ND	1.0	
1,2-Dichloroethane	ND	1.0	
1,1-Dichloroethane	ND	1.0	
1,1-Dichloroethene	ND	1.0	
cis-1,2-Dichloroethene	ND	1.0	
trans-1,2-Dichloroethene	ND	1.0	
1,2-Dichloroethene, total	ND	1.0	
Dichloromethane (MeCl ₂)	ND	1.0	
1,2-Dichloropropane	ND	1.0	
cis-1,3-Dichloropropene	ND	1.0	
trans-1,3-Dichloropropene	ND	1.0	
Ethylbenzene	ND	1.0	
2-Hexanone	ND	5.0	
Isopropylbenzene	ND	1.0	
4-Methyl-2-Pentanone (MIBK)	ND	5.0	
Styrene	ND	1.0	
1,1,2,2-Tetrachloroethane	ND	1.0	
Tetrachloroethene	ND	1.0	
Toluene	ND	1.0	
1,1,2-Trichloroethane	ND	1.0	
1,1,1-Trichloroethane	ND	1.0	
Trichloroethene	ND	1.0	
Vinyl Chloride	ND	1.0	
o-Xylene	ND	1.0	
m,p-Xylene	ND	2.0	
Methyl-tert-butyl ether	ND	1.0	
Surr Cmpd % Rec - Limits			

SURROGATE %RECOVERY LIMITS

12/05/05 15:06

TEST RESULTS BY SAMPLE

Sample Description: TRIP BLANK

Lab No: 01A

Test Description: GC/MS Volatiles, SW846 8260 Category: GW 846 8260B Test Code: V_RSAA

Dibromofluoromethane	<u>103</u>	<u>86</u>	-	<u>118</u>
Toluene-d8	<u>98</u>	<u>88</u>	-	<u>110</u>
4-Bromofluorobenzene	<u>97</u>	<u>86</u>	-	<u>115</u>

Notes and Definitions for this Report:

DATE RUN 11/08/05 21:34:00

ANALYST JPG

CONC FACTOR 1

UNITS ug/L

TEST RESULTS BY SAMPLE

Sample Description: OSMW-14 Lab No: 02A
Test Description: GC/MS Volatiles, SW846 8260 Method: SW 846 8260B Test Code: V_RSAA
Collected: 10/27/05 19:10 Category: GW

PARAMETER	RESULT	LIMIT	WEIGHT
Acetone	7.2	5.0	
Benzene	ND	1.0	
Bromodichloromethane	ND	1.0	
Bromoform	ND	1.0	
Bromomethane	ND	1.0	
2-Butanone (MEK)	ND	5.0	
Carbon Disulfide	ND	1.0	
Carbon Tetrachloride	ND	1.0	
Chlorobenzene	ND	1.0	
Chloroethane	ND	1.0	
Chloroform	0.9 J	1.0	
Chloromethane	ND	1.0	
Dibromochloromethane	ND	1.0	
1,2-Dibromoethane	ND	1.0	
1,2-Dibromo-3-Chloropropane	ND	1.0	
1,2-Dichloroethane	0.9 J	1.0	
1,1-Dichloroethane	0.6 J	1.0	
1,1-Dichloroethene	ND	1.0	
cis-1,2-Dichloroethene	85.2	1.0	
trans-1,2-Dichloroethene	34.5	1.0	
1,2 Dichloroethene, total	120	1.0	
Dichloromethane (MeCl2)	ND	1.0	
1,2-Dichloropropane	ND	1.0	
cis-1,3-Dichloropropene	ND	1.0	
trans 1,3-Dichloropropene	ND	1.0	
Ethylbenzene	ND	1.0	
2-Hexanone	ND	5.0	
Isopropylbenzene	ND	1.0	
4-Methyl-2-Pentanone (MIBK)	ND	5.0	
Styrene	ND	1.0	
1,1,2,2-Tetrachloroethane	218	1.0	
Tetrachloroethene	1.0	1.0	
Toluene	ND	1.0	
1,1,2-Trichloroethane	4.0	1.0	
1,1,1-Trichloroethane	ND	1.0	
Trichloroethene	29.9	1.0	
Vinyl Chloride	1.8	1.0	
o-Xylene	ND	1.0	
m,p-Xylene	ND	2.0	
Methyl-tert-butyl ether	ND	1.0	
Surr Compd - % Rec - Limits			

SURROGATE	%RECOVERY	LIMITS
Dibromofluoromethane	100	86 - 118

12/05/05 15:06

TEST RESULTS BY SAMPLE

Sample Description: OSMW-14

Lab No: 02A

Test Description: GC/MS Volatiles, SW846 8260 Method: SW 846 8260B Test Code: V_RSAA

Collected: 10/27/05 19:10

Category: GW

Toluene-d8	<u>99</u>	<u>88</u>	-	<u>110</u>
4-Bromofluorobenzene	<u>101</u>	<u>86</u>	-	<u>115</u>

Notes and Definitions for this Report:

DATE RUN 11/03/05 08:18:00

ANALYST IM

CONC FACTOR 1

UNITS ug/L

12/05/05 15:06

TEST RESULTS BY SAMPLE

Sample Description: OSMW-12

Lab No: 03A

Test Description: GC/MS Volatiles, SW846 8260 Method: SW 846 8260B Test Code: V_RSAA

Collected: 10/27/05 13:10

Category: GW

Toluene-d8	<u>99</u>	<u>88</u>	-	<u>110</u>
4-Bromofluorobenzene	<u>96</u>	<u>86</u>	-	<u>115</u>

Notes and Definitions for this Report:

DATE RUN 11/03/05 11:04:00

ANALYST IM

CONC FACTOR 1

UNITS ug/L

12/05/05 15:06

TEST RESULTS BY SAMPLE

Sample Description: OSMW-11

Lab No: 04A

Test Description: GC/MS Volatiles, SW846 8260 Method: SW 846 8260B Test Code: V_RSAA

Collected: 10/27/05 17:50

Category: GW

Toluene-d8	<u>99</u>	<u>88</u>	-	<u>110</u>
4-Bromofluorobenzene	<u>96</u>	<u>86</u>	-	<u>115</u>

Notes and Definitions for this Report:

DATE RUN 11/03/05 09:25:00

ANALYST IM

CONC FACTOR 1

UNITS ug/L

TEST RESULTS BY SAMPLE

Sample Description: OSMW-3 Lab No: 05A
 Test Description: GC/MS Volatiles, SW846 8260 Method: SW 846 8260B Test Code: V_RSAA
 Collected: 10/28/05 19:40 Category: GW

PARAMETER	RESULT	LIMIT	WEIGHT
Acetone	57.8	5.0	---
Benzene	6.8	1.0	---
Bromodichloromethane	ND	1.0	---
Bromoform	ND	1.0	---
Bromomethane	ND	1.0	---
2-Butanone (MEK)	ND	5.0	---
Carbon Disulfide	ND	1.0	---
Carbon Tetrachloride	ND	1.0	---
Chlorobenzene	232	1.0	---
Chloroethane	ND	1.0	---
Chloroform	ND	1.0	---
Chloromethane	ND	1.0	---
Dibromochloromethane	ND	1.0	---
1,2-Dibromoethane	ND	1.0	---
1,2-Dibromo-3-Chloropropane	ND	1.0	---
1,2-Dichloroethane	ND	1.0	---
1,1-Dichloroethane	ND	1.0	---
1,1-Dichloroethene	ND	1.0	---
cis-1,2-Dichloroethene	0.7 J	1.0	---
trans-1,2-Dichloroethene	0.8 J	1.0	---
1,2-Dichloroethene, total	1.5 J	1.0	---
Dichloromethane (MeCl2)	ND	1.0	---
1,2-Dichloropropane	ND	1.0	---
cis-1,3-Dichloropropene	ND	1.0	---
trans-1,3-Dichloropropene	ND	1.0	---
Ethylbenzene	ND	1.0	---
2-Hexanone	ND	5.0	---
Isopropylbenzene	ND	1.0	---
4-Methyl-2-Pentanone (MIBK)	ND	5.0	---
Styrene	ND	1.0	---
1,1,2,2-Tetrachloroethane	0.7 J	1.0	---
Tetrachloroethene	ND	1.0	---
Toluene	ND	1.0	---
1,1,2-Trichloroethane	ND	1.0	---
1,1,1-Trichloroethane	ND	1.0	---
Trichloroethene	ND	1.0	---
Vinyl Chloride	0.9 J	1.0	---
o-Xylene	ND	1.0	---
m,p-Xylene	ND	2.0	---
Methyl-tert-butyl ether	ND	1.0	---
Surr Cmpd - % Rec - Limits			

SURROGATE	%RECOVERY	LIMITS
Dibromofluoromethane	104	86 - 118

12/05/05 15:06

TEST RESULTS BY SAMPLE

Sample Description: OSMW-3

Lab No: 05A

Test Description: GC/MS Volatiles, SW846 8260 Method: SW 846 8260B Test Code: V_RSAA

Collected: 10/28/05 19:40

Category: GW

Toluene-d8	<u>99</u>	<u>88</u>	-	<u>110</u>
4-Bromofluorobenzene	<u>108</u>	<u>86</u>	-	<u>115</u>

Notes and Definitions for this Report:

DATE RUN 11/08/05 14:59:00

ANALYST JPG

CONC FACTOR 1

UNITS ug/L

12/05/05 15:06

TEST RESULTS BY SAMPLE

Sample Description: OSMW-2

Lab No: 06A

Test Description: GC/MS Volatiles, SW846 8260 Method: SW 846 8260B Test Code: V_RSAA

Collected: 10/28/05 12:10

Category: GW

PARAMETER	RESULT	LIMIT	WEIGHT
Acetone	144	25	
Benzene	40	5.0	
Bromodichloromethane	ND	5.0	
Bromoform	ND	5.0	
Bromomethane	ND	5.0	
2-Butanone (MEK)	ND	25	
Carbon Disulfide	ND	5.0	
Carbon Tetrachloride	ND	5.0	
Chlorobenzene	1290	5.0	
Chloroethane	ND	5.0	
Chloroform	ND	5.0	
Chloromethane	ND	5.0	
Dibromochloromethane	ND	5.0	
1,2-Dibromoethane	ND	5.0	
1,2-Dibromo-3-Chloropropane	ND	5.0	
1,2-Dichloroethane	ND	5.0	
1,1-Dichloroethane	ND	5.0	
1,1-Dichloroethene	ND	5.0	
cis-1,2-Dichloroethene	ND	5.0	
trans-1,2-Dichloroethene	ND	5.0	
1,2-Dichloroethene, total	ND	5.0	
Dichloromethane (MeCl2)	ND	5.0	
1,2-Dichloropropane	ND	5.0	
cis-1,3-Dichloropropene	ND	5.0	
trans-1,3-Dichloropropene	ND	5.0	
Ethylbenzene	ND	5.0	
2-Hexanone	ND	25	
Isopropylbenzene	ND	5.0	
4-Methyl-2-Pentanone (MIBK)	ND	25	
Styrene	ND	5.0	
1,1,2,2-Tetrachloroethane	ND	5.0	
Tetrachloroethene	ND	5.0	
Toluene	ND	5.0	
1,1,2-Trichloroethane	ND	5.0	
1,1,1-Trichloroethane	ND	5.0	
Trichloroethene	ND	5.0	
Vinyl Chloride	ND	5.0	
o-Xylene	ND	5.0	
m,p-Xylene	ND	10	
Methyl-tert-butyl ether	ND	5.0	
Surr Compd - % Rec - Limits			

SURROGATE	%RECOVERY	LIMITS
Dibromofluoromethane	102	86 - 118

12/05/05 15:06

TEST RESULTS BY SAMPLE

Sample Description: OSMW-2

Lab No: 06A

Test Description: GC/MS Volatiles, SW846 8260 Method: SW 846 8260B Test Code: V_RSAA

Collected: 10/28/05 12:10

Category: GW

Toluene-d8	<u>98</u>	<u>88</u>	-	<u>110</u>
4-Bromofluorobenzene	<u>107</u>	<u>86</u>	-	<u>115</u>

Notes and Definitions for this Report:

DATE RUN 11/09/05 22:34:00

ANALYST IM

CONC FACTOR 5

UNITS ug/L

12/05/05 15:06

TEST RESULTS BY SAMPLE

Sample Description: MW-17

Lab No: 07A

Test Description: GC/MS Volatiles, SW846 8260 Method: SW 846 8260B Test Code: V_RSAA

Collected: 10/28/05 14:15

Category: GW

PARAMETER	RESULT	LIMIT	WEIGHT
Acetone	746	25	
Benzene	174	5.0	
Bromodichloromethane	ND	5.0	
Bromoform	ND	5.0	
Bromomethane	ND	5.0	
2-Butanone (MEK)	ND	25	
Carbon Disulfide	ND	5.0	
Carbon Tetrachloride	ND	5.0	
Chlorobenzene	897	5.0	
Chloroethane	ND	5.0	
Chloroform	ND	5.0	
Chloromethane	ND	5.0	
Dibromochloromethane	ND	5.0	
1,2-Dibromoethane	ND	5.0	
1,2-Dibromo-3-Chloropropane	ND	5.0	
1,2-Dichloroethane	3.1 J	5.0	
1,1-Dichloroethane	2.7 J	5.0	
1,1-Dichloroethene	ND	5.0	
cis-1,2-Dichloroethene	5.1	5.0	
trans-1,2-Dichloroethene	ND	5.0	
1,2-Dichloroethene, total	5.1	5.0	
Dichloromethane (MeCl2)	ND	5.0	
1,2-Dichloropropane	ND	5.0	
cis-1,3-Dichloropropene	ND	5.0	
trans-1,3-Dichloropropene	ND	5.0	
Ethylbenzene	11.1	5.0	
2-Hexanone	ND	25	
Isopropylbenzene	ND	5.0	
4-Methyl-2-Pentanone (MIBK)	ND	25	
Styrene	ND	5.0	
1,1,2,2-Tetrachloroethane	ND	5.0	
Tetrachloroethene	ND	5.0	
Toluene	ND	5.0	
1,1,2-Trichloroethane	3.4 J	5.0	
1,1,1-Trichloroethane	ND	5.0	
Trichloroethene	ND	5.0	
Vinyl Chloride	6.8	5.0	
o-Xylene	14.1	5.0	
m,p-Xylene	3.0 J	10	
Methyl-tert-butyl ether	ND	5.0	
Surr Cmpd	% Rec	Limits	

SURROGATE	%RECOVERY	LIMITS
Dibromofluoromethane	107	86 - 118

12/05/05 15:06

TEST RESULTS BY SAMPLE

Sample Description: MW-17

Lab No: 07A

Test Description: GC/MS Volatiles, SW846 8260 Method: SW 846 8260B Test Code: V_RSAA

Collected: 10/28/05 14:15

Category: GW

Toluene-d8	<u>98</u>	<u>88</u>	-	<u>110</u>
4-Bromofluorobenzene	<u>105</u>	<u>86</u>	-	<u>115</u>

Notes and Definitions for this Report:

DATE RUN 11/09/05 23:07:00

ANALYST IM

CONC FACTOR 5

UNITS ug/L

12/05/05 15:06

TEST RESULTS BY SAMPLE

Sample Description: MW-2

Lab No: 08A

Test Description: GC/MS Volatiles, SW846 8260 Method: SW 846 8260B Test Code: V_RSAA

Collected: 10/28/05 16:45

Category: GW

PARAMETER	RESULT	LIMIT	WEIGHT
Acetone	51.2	5.0	
Benzene	21.5	1.0	
Bromodichloromethane	ND	1.0	
Bromoform	ND	1.0	
Bromomethane	ND	1.0	
2-Butanone (MEK)	ND	5.0	
Carbon Disulfide	ND	1.0	
Carbon Tetrachloride	ND	1.0	
Chlorobenzene	381	1.0	
Chloroethane	ND	1.0	
Chloroform	ND	1.0	
Chloromethane	ND	1.0	
Dibromochloromethane	ND	1.0	
1,2-Dibromoethane	ND	1.0	
1,2-Dibromo-3-Chloropropane	ND	1.0	
1,2-Dichloroethane	ND	1.0	
1,1-Dichloroethane	0.8 J	1.0	
1,1-Dichloroethene	ND	1.0	
cis-1,2-Dichloroethene	ND	1.0	
trans-1,2-Dichloroethene	ND	1.0	
1,2-Dichloroethene, total	ND	1.0	
Dichloromethane (MeCl2)	ND	1.0	
1,2-Dichloropropane	ND	1.0	
cis-1,3-Dichloropropene	ND	1.0	
trans-1,3-Dichloropropene	ND	1.0	
Ethylbenzene	1.6	1.0	
2-Hexanone	ND	5.0	
Isopropylbenzene	ND	1.0	
4-Methyl-2-Pentanone (MIBK)	ND	5.0	
Styrene	ND	1.0	
1,1,2,2-Tetrachloroethane	ND	1.0	
Tetrachloroethene	ND	1.0	
Toluene	ND	1.0	
1,1,2-Trichloroethane	ND	1.0	
1,1,1-Trichloroethane	ND	1.0	
Trichloroethene	ND	1.0	
Vinyl Chloride	ND	1.0	
o-Xylene	ND	1.0	
m,p-Xylene	ND	2.0	
Methyl-tert-butyl ether	ND	1.0	
Surr Compd			
% Rec - Limits			

SURROGATE	%RECOVERY	LIMITS
Dibromofluoromethane	105	86 - 118

12/05/05 15:06

TEST RESULTS BY SAMPLE

Sample Description: MW-2

Lab No: 08A

Test Description: GC/MS Volatiles, SW846 8260 Method: SW 846 8260B Test Code: V_RSAA

Collected: 10/28/05 16:45

Category: GW

Toluene-d8	<u>97</u>	<u>88</u>	-	<u>110</u>
4-Bromofluorobenzene	<u>115</u>	<u>86</u>	-	<u>115</u>

Notes and Definitions for this Report:

DATE RUN 11/09/05 03:02:00

ANALYST JPG

CONC FACTOR 1

UNITS ug/L

TEST RESULTS BY SAMPLE

Sample Description: S-6 Lab No: 09A
Test Description: GC/MS Volatiles, SW846 8260 Method: SW 846 8260B Test Code: V_RSAA
Collected: 10/29/05 09:50 Category: GW

PARAMETER	RESULT	LIMIT	WEIGHT
Acetone	235	5.0	---
Benzene	ND	1.0	---
Bromodichloromethane	ND	1.0	---
Bromoform	ND	1.0	---
Bromomethane	ND	1.0	---
2-Butanone (MEK)	ND	5.0	---
Carbon Disulfide	ND	1.0	---
Carbon Tetrachloride	ND	1.0	---
Chlorobenzene	ND	1.0	---
Chloroethane	ND	1.0	---
Chloroform	ND	1.0	---
Chloromethane	ND	1.0	---
Dibromochloromethane	ND	1.0	---
1,2-Dibromoethane	ND	1.0	---
1,2-Dibromo-3-Chloropropane	ND	1.0	---
1,2-Dichloroethane	ND	1.0	---
1,1-Dichloroethane	ND	1.0	---
1,1-Dichloroethene	ND	1.0	---
cis-1,2-Dichloroethene	ND	1.0	---
trans-1,2-Dichloroethene	ND	1.0	---
1,2-Dichloroethene, total	ND	1.0	---
Dichloromethane (MeCl2)	ND	1.0	---
1,2-Dichloropropane	ND	1.0	---
cis-1,3-Dichloropropene	ND	1.0	---
trans-1,3-Dichloropropene	ND	1.0	---
Ethylbenzene	ND	1.0	---
2-Hexanone	ND	5.0	---
Isopropylbenzene	ND	1.0	---
4-Methyl-2-Pentanone (MIBK)	ND	5.0	---
Styrene	ND	1.0	---
1,1,2,2-Tetrachloroethane	ND	1.0	---
Tetrachloroethene	ND	1.0	---
Toluene	ND	1.0	---
1,1,2-Trichloroethane	ND	1.0	---
1,1,1-Trichloroethane	ND	1.0	---
Trichloroethene	ND	1.0	---
Vinyl Chloride	ND	1.0	---
o-Xylene	ND	1.0	---
m,p-Xylene	ND	2.0	---
Methyl-tert-butyl ether	ND	1.0	---
Surr Compd - % Rec - Limits	---	---	---

SURROGATE	%RECOVERY	LIMITS
Dibromofluoromethane	106	86 - 118

12/05/05 15:06

TEST RESULTS BY SAMPLE

Sample Description: MW-43

Lab No: 10A

Test Description: GC/MS Volatiles, SW846 8260 Method: SW 846 8260B Test Code: V_RSAA

Collected: 10/29/05 11:05

Category: GW

Toluene-d8	<u>99</u>	<u>88</u>	-	<u>110</u>
4-Bromofluorobenzene	<u>115</u>	<u>86</u>	-	<u>115</u>

Notes and Definitions for this Report:

DATE RUN 11/09/05 04:08:00

ANALYST JPG

CONC FACTOR 1

UNITS ug/L

TEST RESULTS BY SAMPLE

Sample Description: MW-3 Lab No: 11A
Test Description: GC/MS Volatiles, SW846 8260 Method: SW 846 8260B Test Code: V_RSAA
Collected: 10/29/05 14:50 Category: GW

PARAMETER	RESULT	LIMIT	WEIGHT
Acetone	95.7	5.0	---
Benzene	ND	1.0	---
Bromodichloromethane	ND	1.0	---
Bromoform	ND	1.0	---
Bromomethane	ND	1.0	---
2-Butanone (MEK)	ND	5.0	---
Carbon Disulfide	ND	1.0	---
Carbon Tetrachloride	ND	1.0	---
Chlorobenzene	15.9	1.0	---
Chloroethane	ND	1.0	---
Chloroform	ND	1.0	---
Chloromethane	ND	1.0	---
Dibromochloromethane	ND	1.0	---
1,2-Dibromoethane	ND	1.0	---
1,2-Dibromo-3-Chloropropane	ND	1.0	---
1,2-Dichloroethane	ND	1.0	---
1,1-Dichloroethane	ND	1.0	---
1,1-Dichloroethene	ND	1.0	---
cis-1,2-Dichloroethene	0.8 J	1.0	---
trans-1,2-Dichloroethene	0.7 J	1.0	---
1,2-Dichloroethene, total	1.5 J	1.0	---
Dichloromethane (MeCl2)	ND	1.0	---
1,2-Dichloropropane	ND	1.0	---
cis-1,3-Dichloropropene	ND	1.0	---
trans-1,3-Dichloropropene	ND	1.0	---
Ethylbenzene	ND	1.0	---
2-Hexanone	ND	5.0	---
Isopropylbenzene	ND	1.0	---
4-Methyl-2-Pentanone (MIBK)	ND	5.0	---
Styrene	ND	1.0	---
1,1,2,2-Tetrachloroethane	ND	1.0	---
Tetrachloroethene	ND	1.0	---
Toluene	ND	1.0	---
1,1,2-Trichloroethane	ND	1.0	---
1,1,1-Trichloroethane	ND	1.0	---
Trichloroethene	ND	1.0	---
Vinyl Chloride	1.0	1.0	---
o-Xylene	ND	1.0	---
m,p-Xylene	ND	2.0	---
Methyl-tert-butyl ether	0.8 J	1.0	---
Surr Cmpd - % Rec - Limits	---	---	---

SURROGATE	%RECOVERY	LIMITS
Dibromofluoromethane	102	86 - 118

TEST RESULTS BY SAMPLE

Sample Description: MW-1 Lab No: 12A
 Test Description: GC/MS Volatiles, SW846 8260 Method: SW 846 8260B Test Code: V_RSAA
 Collected: 10/28/05 16:20 Category: GW

PARAMETER	RESULT	LIMIT	WEIGHT
Acetone	123	5.0	
Benzene	ND	1.0	
Bromodichloromethane	ND	1.0	
Bromoform	ND	1.0	
Bromomethane	ND	1.0	
2 Butanone (MEK)	ND	5.0	
Carbon Disulfide	ND	1.0	
Carbon Tetrachloride	ND	1.0	
Chlorobenzene	ND	1.0	
Chloroethane	ND	1.0	
Chloroform	ND	1.0	
Chloromethane	ND	1.0	
Dibromochloromethane	ND	1.0	
1,2-Dibromoethane	ND	1.0	
1,2 Dibromo-3-Chloropropane	ND	1.0	
1,2-Dichloroethane	ND	1.0	
1,1-Dichloroethane	ND	1.0	
1,1-Dichloroethene	ND	1.0	
cis-1,2-Dichloroethene	ND	1.0	
trans-1,2-Dichloroethene	ND	1.0	
1,2-Dichloroethene, total	ND	1.0	
Dichloromethane (MeCl2)	ND	1.0	
1,2-Dichloropropane	ND	1.0	
cis-1,3-Dichloropropene	ND	1.0	
trans-1,3-Dichloropropene	ND	1.0	
Ethylbenzene	ND	1.0	
2-Hexanone	ND	5.0	
Isopropylbenzene	ND	1.0	
4-Methyl-2-Pentanone (MIBK)	ND	5.0	
Styrene	ND	1.0	
1,1,2,2-Tetrachloroethane	1.2	1.0	
Tetrachloroethene	ND	1.0	
Toluene	ND	1.0	
1,1,2-Trichloroethane	ND	1.0	
1,1,1-Trichloroethane	ND	1.0	
Trichloroethene	1.0	1.0	
Vinyl Chloride	ND	1.0	
o-Xylene	ND	1.0	
m,p-Xylene	ND	2.0	
Methyl-tert-butyl ether	ND	1.0	
Surr Compd - % Rec - Limits			

SURROGATE	%RECOVERY	LIMITS
Dibromofluoromethane	105	86 - 118

Order # 05-10-477
12/05/05 15:06

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TEST RESULTS BY SAMPLE

Sample Description: MW-1

Lab No: 12A

Test Description: GC/MS Volatiles, SW846 8260 Method: SW 846 8260B Test Code: V_RSAA

Collected: 10/28/05 16:20

Category: GW

Toluene-d8	<u>98</u>	<u>88</u>	-	<u>110</u>
4-Bromofluorobenzene	<u>97</u>	<u>86</u>	-	<u>115</u>

Notes and Definitions for this Report:

DATE RUN 11/09/05 00:51:00

ANALYST JPG

CONC FACTOR 1

UNITS ug/L

12/05/05 15:06

TEST RESULTS BY SAMPLE

Sample Description: MW-20

Lab No: 13A

Test Description: GC/MS Volatiles, SW846 8260 Method: SW 846 8260B Test Code: V_RSAA

Collected: 10/29/05 18:00

Category: GW

Toluene-d8	<u>98</u>	<u>88</u>	-	<u>110</u>
4 Bromofluorobenzene	<u>97</u>	<u>86</u>	-	<u>115</u>

Notes and Definitions for this Report:

DATE RUN 11/09/05 01:24:00

ANALYST JPG

CONC FACTOR 1

UNITS ug/L

TEST RESULTS BY SAMPLE

Sample Description: MW-21 Lab No: 14A
 Test Description: GC/MS Volatiles, SW846 8260 Method: SW 846 8260B Test Code: V_RSAA
 Collected: 10/30/05 10:52 Category: GW

PARAMETER	RESULT	LIMIT	WEIGHT
Acetone	70.0	5.0	
Benzene	ND	1.0	
Bromodichloromethane	ND	1.0	
Bromoform	ND	1.0	
Bromomethane	ND	1.0	
2-Butanone (MEK)	ND	5.0	
Carbon Disulfide	ND	1.0	
Carbon Tetrachloride	ND	1.0	
Chlorobenzene	1.6	1.0	
Chloroethane	ND	1.0	
Chloroform	ND	1.0	
Chloromethane	ND	1.0	
Dibromochloromethane	ND	1.0	
1,2-Dibromoethane	ND	1.0	
1,2-Dibromo-3-Chloropropane	ND	1.0	
1,2-Dichloroethane	ND	1.0	
1,1-Dichloroethane	ND	1.0	
1,1-Dichloroethene	ND	1.0	
cis-1,2-Dichloroethene	0.7 J	1.0	
trans-1,2-Dichloroethene	ND	1.0	
1,2-Dichloroethene, total	0.7 J	1.0	
Dichloromethane (MeCl2)	ND	1.0	
1,2-Dichloropropane	ND	1.0	
cis-1,3-Dichloropropene	ND	1.0	
trans-1,3-Dichloropropene	ND	1.0	
Ethylbenzene	ND	1.0	
2-Hexanone	ND	5.0	
Isopropylbenzene	ND	1.0	
4-Methyl-2-Pentanone (MIBK)	ND	5.0	
Styrene	ND	1.0	
1,1,2,2-Tetrachloroethane	26.9	1.0	
Tetrachloroethene	ND	1.0	
Toluene	ND	1.0	
1,1,2-Trichloroethane	ND	1.0	
1,1,1-Trichloroethane	ND	1.0	
Trichloroethene	2.2	1.0	
Vinyl Chloride	ND	1.0	
o-Xylene	ND	1.0	
m,p-Xylene	ND	2.0	
Methyl-tert-butyl ether	ND	1.0	
Surr Cmpd - % Rec - Limits			

SURROGATE	%RECOVERY	LIMITS
Dibromofluoromethane	104	86 - 118

12/05/05 15:06

TEST RESULTS BY SAMPLE

Sample Description: MW-19

Lab No: 15A

Test Description: GC/MS Volatiles, SW846 8260 Method: SW 846 8260B Test Code: V_RSAA

Collected: 10/30/05 12:39

Category: GW

PARAMETER	RESULT	LIMIT	WEIGHT
Acetone	4.8 J	5.0	
Benzene	ND	1.0	
Bromodichloromethane	ND	1.0	
Bromoform	ND	1.0	
Bromomethane	ND	1.0	
2-Butanone (MEK)	ND	5.0	
Carbon Disulfide	ND	1.0	
Carbon Tetrachloride	ND	1.0	
Chlorobenzene	ND	1.0	
Chloroethane	ND	1.0	
Chloroform	ND	1.0	
Chloromethane	ND	1.0	
Dibromochloromethane	ND	1.0	
1,2-Dibromoethane	ND	1.0	
1,2-Dibromo-3-Chloropropane	ND	1.0	
1,2-Dichloroethane	ND	1.0	
1,1-Dichloroethane	ND	1.0	
1,1-Dichloroethene	ND	1.0	
cis-1,2-Dichloroethene	ND	1.0	
trans-1,2-Dichloroethene	ND	1.0	
1,2-Dichloroethene, total	ND	1.0	
Dichloromethane (MeCl2)	ND	1.0	
1,2 Dichloropropane	ND	1.0	
cis-1,3-Dichloropropene	ND	1.0	
trans-1,3-Dichloropropene	ND	1.0	
Ethylbenzene	ND	1.0	
2-Hexanone	ND	5.0	
Isopropylbenzene	ND	1.0	
4-Methyl-2-Pentanone (MIBK)	ND	5.0	
Styrene	ND	1.0	
1,1,2,2-Tetrachloroethane	ND	1.0	
Tetrachloroethene	ND	1.0	
Toluene	ND	1.0	
1,1,2 Trichloroethane	ND	1.0	
1,1,1-Trichloroethane	ND	1.0	
Trichloroethene	ND	1.0	
Vinyl Chloride	ND	1.0	
o-Xylene	ND	1.0	
m,p-Xylene	ND	2.0	
Methyl-tert-butyl ether	ND	1.0	
Surr Cmpd % Rec - Limits			

SURROGATE	%RECOVERY	LIMITS
Dibromofluoromethane	107	86 - 118

12/05/05 15:06

TEST RESULTS BY SAMPLE

Sample Description: MW-19

Lab No: 15A

Test Description: GC/MS Volatiles, SW846 8260 Method: SW 846 8260B Test Code: V_RSAA

Collected: 10/30/05 12:39

Category: GW

Toluene-d8	<u>99</u>	<u>88</u>	-	<u>110</u>
4-Bromofluorobenzene	<u>97</u>	<u>86</u>	-	<u>115</u>

Notes and Definitions for this Report:

DATE RUN 11/09/05 05:14:00

ANALYST JPG

CONC FACTOR 1

UNITS ug/L

TEST RESULTS BY SAMPLE

Sample Description: MW-16 Lab No: 16A
 Test Description: GC/MS Volatiles, SW846 8260 Method: SW 846 8260B Test Code: V_RSAA
 Collected: 10/30/05 15:06 Category: GW

PARAMETER	RESULT	LIMIT	WEIGHT
Acetone	ND	25	
Benzene	4.0 J	5.0	
Bromodichloromethane	ND	5.0	
Bromoform	ND	5.0	
Bromomethane	ND	5.0	
2-Butanone (MEK)	ND	25	
Carbon Disulfide	ND	5.0	
Carbon Tetrachloride	ND	5.0	
Chlorobenzene	556	5.0	
Chloroethane	ND	5.0	
Chloroform	ND	5.0	
Chloromethane	ND	5.0	
Dibromochloromethane	ND	5.0	
1,2-Dibromoethane	ND	5.0	
1,2-Dibromo-3-Chloropropane	ND	5.0	
1,2-Dichloroethane	ND	5.0	
1,1-Dichloroethane	ND	5.0	
1,1-Dichloroethene	ND	5.0	
cis-1,2-Dichloroethene	ND	5.0	
trans-1,2-Dichloroethene	ND	5.0	
1,2-Dichloroethene, total	ND	5.0	
Dichloromethane (MeCl2)	ND	5.0	
1,2-Dichloropropane	ND	5.0	
cis 1,3 Dichloropropene	ND	5.0	
trans 1,3-Dichloropropene	ND	5.0	
Ethylbenzene	ND	5.0	
2-Hexanone	ND	25	
Isopropylbenzene	ND	5.0	
4-Methyl-2-Pentanone (MIBK)	ND	25	
Styrene	ND	5.0	
1,1,2,2-Tetrachloroethane	ND	5.0	
Tetrachloroethene	ND	5.0	
Toluene	ND	5.0	
1,1,2-Trichloroethane	ND	5.0	
1,1,1-Trichloroethane	ND	5.0	
Trichloroethene	ND	5.0	
Vinyl Chloride	ND	5.0	
o-Xylene	ND	5.0	
m,p-Xylene	ND	10	
Methyl-tert-butyl ether	ND	5.0	
Surr Cmpd - % Rec - Limits			

SURROGATE	%RECOVERY	LIMITS
Dibromofluoromethane	102	86 - 118

12/05/05 15:06

TEST RESULTS BY SAMPLE

Sample Description: MW-16

Lab No: 16A

Test Description: GC/MS Volatiles, SW846 8260 Method: SW 846 8260B Test Code: V_RSAA

Collected: 10/30/05 15:06

Category: GW

Toluene-d8	<u>98</u>	<u>88</u>	-	<u>110</u>
4-Bromofluorobenzene	<u>100</u>	<u>86</u>	-	<u>115</u>

Notes and Definitions for this Report:

DATE RUN 11/09/05 10:01:00

ANALYST JPG

CONC FACTOR 5

UNITS ug/L

TEST RESULTS BY SAMPLE

Sample Description: MW-15 Lab No: 17A
Test Description: GC/MS Volatiles, SW846 8260 Method: SW 846 8260B Test Code: V_RSAA
Collected: 10/30/05 16:45 Category: GW

PARAMETER	RESULT	LIMIT	WEIGHT
Acetone	203	5.0	
Benzene	ND	1.0	
Bromodichloromethane	ND	1.0	
Bromoform	ND	1.0	
Bromomethane	ND	1.0	
2 Butanone (MEK)	ND	5.0	
Carbon Disulfide	ND	1.0	
Carbon Tetrachloride	ND	1.0	
Chlorobenzene	1.0	1.0	
Chloroethane	ND	1.0	
Chloroform	ND	1.0	
Chloromethane	ND	1.0	
Dibromochloromethane	ND	1.0	
1,2-Dibromoethane	ND	1.0	
1,2-Dibromo-3-Chloropropane	ND	1.0	
1,2-Dichloroethane	ND	1.0	
1,1 Dichloroethane	ND	1.0	
1,1 Dichloroethene	ND	1.0	
cis-1,2-Dichloroethene	ND	1.0	
trans-1,2-Dichloroethene	ND	1.0	
1,2-Dichloroethene, total	ND	1.0	
Dichloromethane (MeCl2)	ND	1.0	
1,2-Dichloropropane	ND	1.0	
cis-1,3-Dichloropropene	ND	1.0	
trans-1,3-Dichloropropene	ND	1.0	
Ethylbenzene	ND	1.0	
2-Hexanone	ND	5.0	
Isopropylbenzene	ND	1.0	
4-Methyl-2-Pentanone (MIBK)	ND	5.0	
Styrene	ND	1.0	
1,1,2,2-Tetrachloroethane	ND	1.0	
Tetrachloroethene	ND	1.0	
Toluene	ND	1.0	
1,1,2-Trichloroethane	0.9 J	1.0	
1,1,1-Trichloroethane	ND	1.0	
Trichloroethene	0.6 J	1.0	
Vinyl Chloride	ND	1.0	
o Xylene	ND	1.0	
m,p Xylene	ND	2.0	
Methyl-tert-butyl ether	ND	1.0	
Surr Cmpd - % Rec - Limits			

SURROGATE	%RECOVERY	LIMITS
Dibromofluoromethane	104	86 - 118

12/05/05 15:06

TEST RESULTS BY SAMPLE

Sample Description: MW-15

Lab No: 17A

Test Description: GC/MS Volatiles, SW846 8260 Method: SW 846 8260B Test Code: V_RSAA

Collected: 10/30/05 16:45

Category: GW

Toluene-d8	<u>100</u>	<u>88</u>	-	<u>110</u>
4-Bromofluorobenzene	<u>97</u>	<u>86</u>	-	<u>115</u>

Notes and Definitions for this Report:

DATE RUN 11/08/05 11:42:00

ANALYST JPG

CONC FACTOR 1

UNITS ug/L

12/05/05 15:06

TEST RESULTS BY SAMPLE

Sample Description: EQUIPMENT BLANK

Lab No: 18A

Test Description: GC/MS Volatiles, SW846 8260

Method: SW 846 8260B Test Code: V_RSAA

Collected: 10/29/05 19:05

Category: GW

PARAMETER	RESULT	LIMIT	WEIGHT
Acetone	9.5	5.0	
Benzene	ND	1.0	
Bromodichloromethane	ND	1.0	
Bromoform	ND	1.0	
Bromomethane	ND	1.0	
2-Butanone (MEK)	ND	5.0	
Carbon Disulfide	ND	1.0	
Carbon Tetrachloride	ND	1.0	
Chlorobenzene	ND	1.0	
Chloroethane	ND	1.0	
Chloroform	ND	1.0	
Chloromethane	ND	1.0	
Dibromochloromethane	ND	1.0	
1,2-Dibromoethane	ND	1.0	
1,2-Dibromo-3-Chloropropane	ND	1.0	
1,2-Dichloroethane	ND	1.0	
1,1-Dichloroethane	ND	1.0	
1,1-Dichloroethene	ND	1.0	
cis-1,2-Dichloroethene	ND	1.0	
trans-1,2-Dichloroethene	ND	1.0	
1,2-Dichloroethene, total	ND	1.0	
Dichloromethane (MeCl2)	ND	1.0	
1,2-Dichloropropane	ND	1.0	
cis-1,3-Dichloropropene	ND	1.0	
trans-1,3-Dichloropropene	ND	1.0	
Ethylbenzene	ND	1.0	
2-Hexanone	ND	5.0	
Isopropylbenzene	ND	1.0	
4 Methyl-2-Pentanone (MIBK)	ND	5.0	
Styrene	ND	1.0	
1,1,2,2-Tetrachloroethane	ND	1.0	
Tetrachloroethene	ND	1.0	
Toluene	ND	1.0	
1,1,2-Trichloroethane	ND	1.0	
1,1,1-Trichloroethane	ND	1.0	
Trichloroethene	ND	1.0	
Vinyl Chloride	ND	1.0	
o-Xylene	ND	1.0	
m,p Xylene	ND	2.0	
Methyl-tert-butyl ether	ND	1.0	
Surr Compd - % Rec - Limits			

SURROGATE	%RECOVERY	LIMITS
Dibromofluoromethane	105	86 - 118

12/05/05 15:06

TEST RESULTS BY SAMPLE

Sample Description: EQUIPMENT BLANK

Lab No: 18A

Test Description: GC/MS Volatiles, SW846 8260 Method: SW 846 8260B Test Code: V_RSAA

Collected: 10/29/05 19:05

Category: GW

Toluene-d8	<u>98</u>	<u>88</u>	-	<u>110</u>
4-Bromofluorobenzene	<u>97</u>	<u>86</u>	-	<u>115</u>

Notes and Definitions for this Report:

DATE RUN 11/08/05 22:07:00

ANALYST JPG

CONC FACTOR 1

UNITS ug/L

Order # 05-10-477
12/05/05 15:06

TEST METHODOLOGIES

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Volatile Organics by GC/MS (aqueous)
SW846 Method 8260B (purge & trap, capillary column GC/MS)

CHAIN OF CUSTODY RECORD

PROJECT NAME GE Railcar - Elkton
 COMPANY RSA
 ADDRESS 2220 Western Trl Blvd Ste 300, Austin, TX 78745
 PHONE (512) 707-1777



630 Churchmans Road
 Newark, Delaware 19702
 302-266-9121 • 454-8720 (FAX)
 ACLI@atlanticcoastlabs.com
 WWW.ATLANTICCOASTLABS.COM

COC 1 of 2

Matthew Wise
 SAMPLED BY
Matthew Wise
 SIGNATURE
Matthew Wise
 PRINT NAME

0510477

SAMPLE COLLECTION FEE:	ANALYSIS
QUOTED PRICE:	

SAMPLE NO.	DATE	TIME	SAMPLE LOCATION	CONTAINER			ID. OF CONTAINERS	SAMPLE MATRIX	PRESERVATIVE	VOC SW8260*	ANALYSIS										COMMENTS			
				SIZE	G.P.	GRAB					CORIP													
1	10-27-05	1010	Trip Blank	40	G		2	W	HCl/Ice	X														Laboratory prepared
* 2	10-27-05	1010	OSMW-14	40	G	X	3	W	HCl/Ice	X														
* 3	10-27-05	1310	OSMW-12							X														* Target VOC list
* 4		1750	OSMW-11							X														
5		1940	OSMW-3							X														
6	10-28-05	1210	OSMW-2							X														
7		1415	MW-17							X														
8		1645	MW-2							X														
9	10-29-05	0950	S-6							X														
10		1105	MW-43							X														
11		1450	MW-3							X														
12		1620	MW-1							X														
13		1800	MW-20							X														
14	10-30-05	1052	MW-21							X														
15		1239	MW-19							X														

Relinquished by: <u>Matthew Wise</u>	Date / Time <u>10-31-05</u>	Received by: <u>RSA 0840 C. Montano</u>	Relinquished by:	Date / Time	Received by:
Relinquished by:	Date / Time	Received by:	Relinquished by: <u>C. Montano</u>	Date / Time <u>10/31/05 9:50</u>	Received for Laboratory by: <u>R. P. W.</u>
Method of Shipment	Remarks				Samples Iced <u>3</u> <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO Samples Preserved <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO

GLOSSARY OF DATA QUALIFIER CODES (ORGANIC)

- B** = Not detected substantially above the level reported in laboratory or field blanks
- J** = Analyte present. Reported Value may not be accurate or precise
- E** = Analyte present, exceeds calibration range
- U** = Analyte analyzed for, undetected.
- N** = Tentative Identification. Consider present. Special methods may be needed to confirm its presence or absence in future sampling efforts.



ATLANTIC COAST
Laboratories, Incorporated

630 Churchmans Road
Newark, Delaware 19702
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WWW.ATLANTICCOASTLABS.COM

REPORT OF ANALYSIS

Rosengarten, Smith & Assoc.
2222 Western Trails Blvd.
Suite 300
Austin, TX 78745
Attn: Mr. Charles Montero
Invoice Number: 113939

Order #: 05-11-036
Date: 11/21/05 16:06
Work ID: GE Railcar, Elkton
Date Received: 11/03/05
Date Completed: 11/21/05
Client Code: RSA

SAMPLE IDENTIFICATION

<u>Sample Number</u>	<u>Sample Description</u>	<u>Sample Number</u>	<u>Sample Description</u>
01	trip blank	08	MW-4
02	MW-14	09	MW-13
03	S-5	10	MW-5
04	EQUIPMENT BLANK	11	S-4
05	MW-32	12	S-3
06	MW-18	13	S-2
07	MW-30	14	MW-10

This cover page is an integral part of the analytical report.

Laboratory Certifications: DE DE00011 PA 68-335
MD 138 NJ DE568

Warren Van Arsdall

Certified By
Warren Van Arsdall

TEST RESULTS BY SAMPLE

Sample Description: trip blank

Lab No: 01A

Test Description: GC/MS Volatiles, SW846 8260 Method: SW 846 8260B Test Code: V_RSAA

Collected: 10/31/05

Category: GW

PARAMETER	RESULT	LIMIT	WEIGHT
Acetone	ND	5.0	
Benzene	ND	1.0	
Bromodichloromethane	ND	1.0	
Bromoform	ND	1.0	
Bromomethane	ND	1.0	
2-Butanone (MEK)	ND	5.0	
Carbon Disulfide	ND	1.0	
Carbon Tetrachloride	ND	1.0	
Chlorobenzene	ND	1.0	
Chloroethane	ND	1.0	
Chloroform	ND	1.0	
Chloromethane	ND	1.0	
Dibromochloromethane	ND	1.0	
1,2-Dibromoethane	ND	1.0	
1,2-Dibromo-3-Chloropropane	ND	1.0	
1,2-Dichloroethane	ND	1.0	
1,1-Dichloroethane	ND	1.0	
1,1-Dichloroethene	ND	1.0	
cis-1,2-Dichloroethene	ND	1.0	
trans 1,2 Dichloroethene	ND	1.0	
1,2-Dichloroethene, total	ND	1.0	
Dichloromethane (MeCl2)	ND	1.0	
1,2-Dichloropropane	ND	1.0	
cis-1,3-Dichloropropene	ND	1.0	
trans-1,3-Dichloropropene	ND	1.0	
Ethylbenzene	ND	1.0	
2-Hexanone	ND	5.0	
Isopropylbenzene	ND	1.0	
4-Methyl-2-Pentanone (MIBK)	ND	5.0	
Styrene	ND	1.0	
1,1,2,2-Tetrachloroethane	ND	1.0	
Tetrachloroethene	ND	1.0	
Toluene	ND	1.0	
1,1,2-Trichloroethane	ND	1.0	
1,1,1-Trichloroethane	ND	1.0	
Trichloroethene	ND	1.0	
Vinyl Chloride	ND	1.0	
o-Xylene	ND	1.0	
m,p-Xylene	ND	2.0	
Methyl-tert-butyl ether	ND	1.0	
Surr Compd - % Rec - Limits			

12/05/05 15:10

TEST RESULTS BY SAMPLE

Sample Description: trip blank

Lab No: 01A

Test Description: GC/MS Volatiles, SW846 8260 Method: SW 846 8260B Test Code: V_RSAA

Collected: 10/31/05

Category: GW

SURROGATE	%RECOVERY	LIMITS
Dibromofluoromethane	<u>101</u>	<u>86</u> - <u>118</u>
Toluene-d8	<u>97</u>	<u>88</u> - <u>110</u>
4-Bromofluorobenzene	<u>100</u>	<u>86</u> - <u>115</u>

Notes and Definitions for this Report:

DATE RUN 11/12/05 23:40:00

ANALYST JPG

CONC FACTOR 1

UNITS ug/L

TEST RESULTS BY SAMPLE

Sample Description: MW-14 Lab No: 02A
Test Description: GC/MS Volatiles, SW846 8260 Method: SW 846 8260B Test Code: V_RSAA
Collected: 10/31/05 10:55 Category: GW

PARAMETER	RESULT	LIMIT	WEIGHT
Acetone	27.1	5.0	
Benzene	ND	1.0	
Bromodichloromethane	ND	1.0	
Bromoform	ND	1.0	
Bromomethane	ND	1.0	
2-Butanone (MEK)	ND	5.0	
Carbon Disulfide	ND	1.0	
Carbon Tetrachloride	ND	1.0	
Chlorobenzene	ND	1.0	
Chloroethane	ND	1.0	
Chloroform	ND	1.0	
Chloromethane	ND	1.0	
Dibromochloromethane	ND	1.0	
1,2-Dibromoethane	ND	1.0	
1,2-Dibromo-3-Chloropropane	ND	1.0	
1,2-Dichloroethane	ND	1.0	
1,1-Dichloroethane	ND	1.0	
1,1-Dichloroethene	ND	1.0	
cis-1,2-Dichloroethene	ND	1.0	
trans-1,2-Dichloroethene	ND	1.0	
1,2-Dichloroethene, total	ND	1.0	
Dichloromethane (MeCl2)	ND	1.0	
1,2-Dichloropropane	ND	1.0	
cis-1,3-Dichloropropene	ND	1.0	
trans-1,3-Dichloropropene	ND	1.0	
Ethylbenzene	ND	1.0	
2-Hexanone	ND	5.0	
Isopropylbenzene	ND	1.0	
4-Methyl-2-Pentanone (MIBK)	ND	5.0	
Styrene	ND	1.0	
1,1,2,2-Tetrachloroethane	ND	1.0	
Tetrachloroethene	ND	1.0	
Toluene	ND	1.0	
1,1,2-Trichloroethane	ND	1.0	
1,1,1-Trichloroethane	ND	1.0	
Trichloroethene	ND	1.0	
Vinyl Chloride	ND	1.0	
o-Xylene	ND	1.0	
m,p-Xylene	ND	2.0	
Methyl-tert-butyl ether	0.5 J	1.0	
Surr Cmpd - % Rec - Limits			

SURROGATE	%RECOVERY	LIMITS
Dibromofluoromethane	101	86 - 118

Order # 05-11-036
12/05/05 15:10

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TEST RESULTS BY SAMPLE

Sample Description: MW-14

Lab No: 02A

Test Description: GC/MS Volatiles, SW846 8260 Method: SW 846 8260B Test Code: V_RSAA

Collected: 10/31/05 10:55

Category: GW

Toluene-d8	<u>98</u>	<u>88</u>	-	<u>110</u>
4-Bromofluorobenzene	<u>99</u>	<u>86</u>	-	<u>115</u>

Notes and Definitions for this Report:

DATE RUN 11/13/05 01:53:00

ANALYST JPG

CONC FACTOR 1

UNITS ug/L

TEST RESULTS BY SAMPLE

Sample Description: EQUIPMENT BLANK Lab No: 04A
Test Description: GC/MS Volatiles, SW846 8260 Method: SW 846 8260B Test Code: V_RSAA
Collected: 10/31/05 14:50 Category: GW

PARAMETER	RESULT	LIMIT	WEIGHT
Acetone	3.6 J	5.0	
Benzene	ND	1.0	
Bromodichloromethane	ND	1.0	
Bromoform	ND	1.0	
Bromomethane	ND	1.0	
2-Butanone (MEK)	ND	5.0	
Carbon Disulfide	ND	1.0	
Carbon Tetrachloride	ND	1.0	
Chlorobenzene	ND	1.0	
Chloroethane	ND	1.0	
Chloroform	ND	1.0	
Chloromethane	ND	1.0	
Dibromochloromethane	ND	1.0	
1,2-Dibromoethane	ND	1.0	
1,2-Dibromo-3-Chloropropane	ND	1.0	
1,2-Dichloroethane	ND	1.0	
1,1-Dichloroethane	ND	1.0	
1,1-Dichloroethene	ND	1.0	
cis-1,2-Dichloroethene	ND	1.0	
trans-1,2-Dichloroethene	ND	1.0	
1,2-Dichloroethene, total	ND	1.0	
Dichloromethane (MeCl2)	ND	1.0	
1,2-Dichloropropane	ND	1.0	
cis-1,3-Dichloropropene	ND	1.0	
trans-1,3-Dichloropropene	ND	1.0	
Ethylbenzene	ND	1.0	
2 Hexanone	ND	5.0	
Isopropylbenzene	ND	1.0	
4-Methyl-2-Pentanone (MIBK)	ND	5.0	
Styrene	ND	1.0	
1,1,2,2-Tetrachloroethane	ND	1.0	
Tetrachloroethene	ND	1.0	
Toluene	ND	1.0	
1,1,2-Trichloroethane	ND	1.0	
1,1,1-Trichloroethane	ND	1.0	
Trichloroethene	ND	1.0	
Vinyl Chloride	ND	1.0	
o Xylene	ND	1.0	
m,p-Xylene	ND	2.0	
Methyl-tert-butyl ether	ND	1.0	
Surr Compd - % Rec - Limits			

SURROGATE	%RECOVERY	LIMITS
Dibromofluoromethane	99	86 - 118

12/05/05 15:10

TEST RESULTS BY SAMPLE

Sample Description: EQUIPMENT BLANK

Lab No: 04A

Test Description: GC/MS Volatiles, SW846 8260 Method: SW 846 8260B Test Code: V_RSAA

Collected: 10/31/05 14:50

Category: GW

Toluene-d8	<u>98</u>	<u>88</u>	-	<u>110</u>
4-Bromofluorobenzene	<u>100</u>	<u>86</u>	-	<u>115</u>

Notes and Definitions for this Report:

DATE RUN 11/13/05 00:13:00

ANALYST JPG

CONC FACTOR 1

UNITS ug/L

TEST RESULTS BY SAMPLE

Sample Description: MW-32 Lab No: 05A
 Test Description: GC/MS Volatiles, SW846 8260 Method: SW 846 8260B Test Code: V_RSAA
 Collected: 10/31/05 16:00 Category: GW

PARAMETER	RESULT	LIMIT	WEIGHT
Acetone	11.1	5.0	
Benzene	ND	1.0	
Bromodichloromethane	ND	1.0	
Bromoform	ND	1.0	
Bromomethane	ND	1.0	
2-Butanone (MEK)	ND	5.0	
Carbon Disulfide	ND	1.0	
Carbon Tetrachloride	ND	1.0	
Chlorobenzene	0.7 J	1.0	
Chloroethane	ND	1.0	
Chloroform	ND	1.0	
Chloromethane	ND	1.0	
Dibromochloromethane	ND	1.0	
1,2-Dibromoethane	ND	1.0	
1,2-Dibromo-3-Chloropropane	ND	1.0	
1,2-Dichloroethane	ND	1.0	
1,1-Dichloroethane	ND	1.0	
1,1-Dichloroethene	ND	1.0	
cis-1,2-Dichloroethene	47.7	1.0	
trans-1,2-Dichloroethene	29.7	1.0	
1,2-Dichloroethene, total	77.4	1.0	
Dichloromethane (MeCl2)	ND	1.0	
1,2-Dichloropropane	ND	1.0	
cis-1,3-Dichloropropene	ND	1.0	
trans-1,3-Dichloropropene	ND	1.0	
Ethylbenzene	ND	1.0	
2-Hexanone	ND	5.0	
Isopropylbenzene	ND	1.0	
4-Methyl-2-Pentanone (MIBK)	ND	5.0	
Styrene	ND	1.0	
1,1,2,2-Tetrachloroethane	203	1.0	
Tetrachloroethene	3.1	1.0	
Toluene	ND	1.0	
1,1,2-Trichloroethane	0.6 J	1.0	
1,1,1-Trichloroethane	ND	1.0	
Trichloroethene	59.9	1.0	
Vinyl Chloride	ND	1.0	
o-Xylene	ND	1.0	
m,p-Xylene	ND	2.0	
Methyl-tert-butyl ether	ND	1.0	
Surr Cmpd - % Rec - Limits			

SURROGATE	%RECOVERY	LIMITS
Dibromofluoromethane	103	86 - 118

TEST RESULTS BY SAMPLE

Sample Description: MW-32 MS Lab No: 05B
Test Description: GC/MS Volatiles, SW846 8260 Method: SW 846 8260B Test Code: V_RSAA
Collected: 10/31/05 16:00 Category: GW

PARAMETER	RESULT	LIMIT	WEIGHT
Acetone	301- 116	5.0	---
Benzene	59.7- 119	1.0	---
Bromodichloromethane	53.4- 107	1.0	---
Bromoform	55.0- 110	1.0	---
Bromomethane	77.6- 155	1.0	---
2-Butanone (MEK)	318- 127	5.0	---
Carbon Disulfide	91.5- 183	1.0	---
Carbon Tetrachloride	56.9- 114	1.0	---
Chlorobenzene	54.8- 108	1.0	---
Chloroethane	75.3- 151	1.0	---
Chloroform	56.8- 114	1.0	---
Chloromethane	64.5- 129	1.0	---
Dibromochloromethane	55.3- 111	1.0	---
1,2-Dibromoethane	57.9- 116	1.0	---
1,2-Dibromo-3-Chloropropane	55.1- 110	1.0	---
1,2-Dichloroethane	55.2- 110	1.0	---
1,1-Dichloroethane	59.4- 119	1.0	---
1,1-Dichloroethene	67.3- 134	1.0	---
cis-1,2-Dichloroethene	56.2- 17	1.0	---
trans-1,2-Dichloroethene	56.9- 54	1.0	---
1,2-Dichloroethene, total	ND	1.0	---
Dichloromethane (MeCl2)	55.6- 111	1.0	---
1,2-Dichloropropane	54.4- 109	1.0	---
cis-1,3-Dichloropropene	53.3- 107	1.0	---
trans-1,3-Dichloropropene	57.6- 115	1.0	---
Ethylbenzene	56.6- 113	1.0	---
2-Hexanone	163- 130	5.0	---
Isopropylbenzene	63.0- 126	1.0	---
4-Methyl-2-Pentanone (MIBK)	163- 130	5.0	---
Styrene	63.4- 127	1.0	---
1,1,2,2-Tetrachloroethane	74.4- 00	1.0	---
Tetrachloroethene	57.1- 108	1.0	---
Toluene	57.8- 116	1.0	---
1,1,2-Trichloroethane	55.4- 110	1.0	---
1,1,1-Trichloroethane	56.0- 112	1.0	---
Trichloroethene	56.9- 00	1.0	---
Vinyl Chloride	71.1- 142	1.0	---
o-Xylene	56.4- 113	1.0	---
m,p-Xylene	115- 115	2.0	---
Methyl tert-butyl ether	62.7- 125	1.0	---
Surr Cmpd - % Rec - Limits	---	---	---

SURROGATE	%RECOVERY	LIMITS
Dibromofluoromethane	103	86 - 118

Order # 05-11-036
12/05/05 15:10

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TEST RESULTS BY SAMPLE

Sample Description: MW-32 MS Lab No: 05B
Test Description: GC/MS Volatiles, SW846 8260 Method: SW 846 8260B Test Code: V_RSAA
Collected: 10/31/05 16:00 Category: GW

Toluene-d8	<u>99</u>	<u>88</u>	-	<u>110</u>
4-Bromofluorobenzene	<u>100</u>	<u>86</u>	-	<u>115</u>

Notes and Definitions for this Report:

DATE RUN 11/13/05 07:59:00
ANALYST JPG
CONC FACTOR 1
UNITS ug/L- %Recovery

TEST RESULTS BY SAMPLE

Sample Description: MW-32 MSD Lab No: 05C
 Test Description: GC/MS Volatiles, SW846 8260 Method: SW 846 8260B Test Code: V_RSAA
 Collected: 10/31/05 16:00 Category: GW

PARAMETER	RESULT	LIMIT	WEIGHT
Acetone	288- 111	5.0	---
Benzene	59.2- 118	1.0	---
Bromodichloromethane	52.6- 105	1.0	---
Bromoform	54.6- 109	1.0	---
Bromomethane	71.8- 144	1.0	---
2-Butanone (MEK)	296- 119	5.0	---
Carbon Disulfide	78.2- 156	1.0	---
Carbon Tetrachloride	57.7- 115	1.0	---
Chlorobenzene	54.3- 107	1.0	---
Chloroethane	73.7- 147	1.0	---
Chloroform	56.6- 113	1.0	---
Chloromethane	67.1- 134	1.0	---
Dibromochloromethane	54.8- 110	1.0	---
1,2-Dibromoethane	55.9- 112	1.0	---
1,2-Dibromo-3-Chloropropane	55.6- 111	1.0	---
1,2-Dichloroethane	53.7- 107	1.0	---
1,1-Dichloroethane	58.9- 118	1.0	---
1,1-Dichloroethene	55.1- 110	1.0	---
cis-1,2-Dichloroethene	55.9- 16	1.0	---
trans-1,2-Dichloroethene	57.1- 55	1.0	---
1,2-Dichloroethene, total	ND	1.0	---
Dichloromethane (MeCl2)	54.9- 110	1.0	---
1,2-Dichloropropane	54.6- 109	1.0	---
cis-1,3-Dichloropropene	53.1- 106	1.0	---
trans-1,3-Dichloropropene	56.6- 113	1.0	---
Ethylbenzene	56.0- 112	1.0	---
2-Hexanone	150- 120	5.0	---
Isopropylbenzene	62.4- 125	1.0	---
4-Methyl-2-Pentanone (MIBK)	154- 123	5.0	---
Styrene	62.5- 125	1.0	---
1,1,2,2-Tetrachloroethane	70.1- 00	1.0	---
Tetrachloroethene	56.3- 106	1.0	---
Toluene	57.9- 116	1.0	---
1,1,2-Trichloroethane	54.4- 108	1.0	---
1,1,1-Trichloroethane	57.0- 114	1.0	---
Trichloroethene	57.0- 00	1.0	---
Vinyl Chloride	69.9- 140	1.0	---
o-Xylene	55.5- 111	1.0	---
m,p-Xylene	115- 115	2.0	---
Methyl-tert-butyl ether	59.3- 118	1.0	---
Surr Cmpd - % Rec - Limits	---	---	---

SURROGATE	%RECOVERY	LIMITS
Dibromofluoromethane	101	86 - 118

Order # 05-11-036
12/05/05 15:10

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TEST RESULTS BY SAMPLE

Sample Description: MW-18 Lab No: 06A
Test Description: GC/MS Volatiles, SW846 B260 Method: SW 846 B260B Test Code: V_RSAA
Collected: 11/01/05 09:55 Category: GW

PARAMETER	RESULT	LIMIT	WEIGHT
Acetone	ND	5.0	
Benzene	ND	1.0	
Bromodichloromethane	ND	1.0	
Bromoform	ND	1.0	
Bromomethane	ND	1.0	
2 Butanone (MEK)	ND	5.0	
Carbon Disulfide	ND	1.0	
Carbon Tetrachloride	ND	1.0	
Chlorobenzene	2.4	1.0	
Chloroethane	ND	1.0	
Chloroform	ND	1.0	
Chloromethane	ND	1.0	
Dibromochloromethane	ND	1.0	
1,2-Dibromoethane	ND	1.0	
1,2-Dibromo-3-Chloropropane	ND	1.0	
1,2-Dichloroethane	ND	1.0	
1,1-Dichloroethane	ND	1.0	
1,1-Dichloroethene	ND	1.0	
cis-1,2-Dichloroethene	0.9 J	1.0	
trans-1,2-Dichloroethene	0.6 J	1.0	
1,2-Dichloroethene, total	1.5 J	1.0	
Dichloromethane (MeCl2)	ND	1.0	
1,2-Dichloropropane	ND	1.0	
cis-1,3-Dichloropropene	ND	1.0	
trans-1,3-Dichloropropene	ND	1.0	
Ethylbenzene	ND	1.0	
2-Hexanone	ND	5.0	
Isopropylbenzene	ND	1.0	
4-Methyl-2-Pentanone (MIBK)	ND	5.0	
Styrene	ND	1.0	
1,1,2,2-Tetrachloroethane	4.9	1.0	
Tetrachloroethene	ND	1.0	
Toluene	ND	1.0	
1,1,2 Trichloroethane	ND	1.0	
1,1,1-Trichloroethane	ND	1.0	
Trichloroethene	0.8 J	1.0	
Vinyl Chloride	ND	1.0	
o-Xylene	ND	1.0	
m,p-Xylene	ND	2.0	
Methyl-tert-butyl ether	ND	1.0	
Surr Compd - % Rec - Limits			

SURROGATE	%RECOVERY	LIMITS
Dibromofluoromethane	100	86 - 118

Order # 05-11-036
12/05/05 15:10

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TEST RESULTS BY SAMPLE

Sample Description: MW-18

Lab No: 06A

Test Description: GC/MS Volatiles, SW846 8260 Method: SW 846 8260B Test Code: V_RSAA

Collected: 11/01/05 09:55

Category: GW

Toluene-d8	<u>97</u>	<u>88</u>	-	<u>110</u>
4-Bromofluorobenzene	<u>99</u>	<u>86</u>	-	<u>115</u>

Notes and Definitions for this Report:

DATE RUN 11/13/05 02:26:00

ANALYST JPG

CONC FACTOR 1

UNITS ug/L

Order # 05-11-036
12/05/05 15:10

TEST RESULTS BY SAMPLE

Sample Description: MW-30 Lab No: 07A
Test Description: GC/MS Volatiles, SW846 8260 Method: SW 846 8260B Test Code: V_RSAA
Collected: 11/01/05 11:35 Category: GW

PARAMETER	RESULT	LIMIT	WEIGHT
Acetone	ND	5.0	---
Benzene	ND	1.0	---
Bromodichloromethane	ND	1.0	---
Bromoform	ND	1.0	---
Bromomethane	ND	1.0	---
2-Butanone (MEK)	ND	5.0	---
Carbon Disulfide	ND	1.0	---
Carbon Tetrachloride	ND	1.0	---
Chlorobenzene	ND	1.0	---
Chloroethane	ND	1.0	---
Chloroform	ND	1.0	---
Chloromethane	ND	1.0	---
Dibromochloromethane	ND	1.0	---
1,2-Dibromoethane	ND	1.0	---
1,2-Dibromo-3-Chloropropane	ND	1.0	---
1,2-Dichloroethane	ND	1.0	---
1,1-Dichloroethane	ND	1.0	---
1,1-Dichloroethene	ND	1.0	---
cis-1,2-Dichloroethene	ND	1.0	---
trans-1,2-Dichloroethene	ND	1.0	---
1,2-Dichloroethene, total	ND	1.0	---
Dichloromethane (MeCl2)	ND	1.0	---
1,2-Dichloropropane	ND	1.0	---
cis-1,3-Dichloropropene	ND	1.0	---
trans-1,3-Dichloropropene	ND	1.0	---
Ethylbenzene	ND	1.0	---
2-Hexanone	ND	5.0	---
Isopropylbenzene	ND	1.0	---
4-Methyl-2-Pentanone (MIBK)	ND	5.0	---
Styrene	ND	1.0	---
1,1,2,2-Tetrachloroethane	ND	1.0	---
Tetrachloroethene	4.6	1.0	---
Toluene	ND	1.0	---
1,1,2-Trichloroethane	ND	1.0	---
1,1,1-Trichloroethane	ND	1.0	---
Trichloroethene	ND	1.0	---
Vinyl Chloride	ND	1.0	---
o-Xylene	ND	1.0	---
m,p-Xylene	ND	2.0	---
Methyl-tert-butyl ether	ND	1.0	---
Surr Cmpd - % Rec - Limits	---	---	---

SURROGATE	%RECOVERY	LIMITS
Dibromofluoromethane	98	86 - 118

Order # 05-11-036
12/05/05 15:10

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TEST RESULTS BY SAMPLE

Sample Description: MW-30

Lab No: 07A

Test Description: GC/MS Volatiles, SW846 8260 Method: SW 846 8260B Test Code: V_RSAA

Collected: 11/01/05 11:35

Category: GW

Toluene-d8	<u>99</u>	<u>88</u>	-	<u>110</u>
4-Bromofluorobenzene	<u>99</u>	<u>86</u>	-	<u>115</u>

Notes and Definitions for this Report:

DATE RUN 11/13/05 02:59:00

ANALYST JPG

CONC FACTOR 1

UNITS ug/L

Order # 05-11-036
12/05/05 15:10

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TEST RESULTS BY SAMPLE

Sample Description: MW-4

Lab No: 08A

Test Description: GC/MS Volatiles, SW846 8260 Method: SW 846 8260B Test Code: V_RSAA

Collected: 11/01/05 13:53

Category: GW

Toluene-d8	<u>98</u>	<u>88</u>	-	<u>110</u>
4-Bromofluorobenzene	<u>90</u>	<u>86</u>	-	<u>115</u>

Notes and Definitions for this Report:

DATE RUN 11/13/05 06:19:00

ANALYST JPG

CONC FACTOR 1

UNITS ug/L

TEST RESULTS BY SAMPLE

Sample Description: MW-13 Lab No: 09A
Test Description: GC/MS Volatiles, SW846 8260 Method: SW 846 8260B Test Code: V_RSAA
Collected: 11/01/05 16:08 Category: GW

PARAMETER	RESULT	LIMIT	WEIGHT
Acetone	724	5.0	---
Benzene	0.6 J	1.0	---
Bromodichloromethane	ND	1.0	---
Bromoform	ND	1.0	---
Bromomethane	ND	1.0	---
2-Butanone (MEK)	ND	5.0	---
Carbon Disulfide	ND	1.0	---
Carbon Tetrachloride	ND	1.0	---
Chlorobenzene	1.1	1.0	---
Chloroethane	ND	1.0	---
Chloroform	ND	1.0	---
Chloromethane	ND	1.0	---
Dibromochloromethane	ND	1.0	---
1,2-Dibromoethane	ND	1.0	---
1,2-Dibromo-3-Chloropropane	ND	1.0	---
1,2-Dichloroethane	ND	1.0	---
1,1-Dichloroethane	ND	1.0	---
1,1-Dichloroethene	ND	1.0	---
cis-1,2-Dichloroethene	31.9	1.0	---
trans-1,2-Dichloroethene	ND	1.0	---
1,2-Dichloroethene, total	31.9	1.0	---
Dichloromethane (MeCl2)	ND	1.0	---
1,2-Dichloropropane	ND	1.0	---
cis-1,3-Dichloropropene	ND	1.0	---
trans-1,3-Dichloropropene	ND	1.0	---
Ethylbenzene	ND	1.0	---
2-Hexanone	ND	5.0	---
Isopropylbenzene	ND	1.0	---
4 Methyl-2-Pentanone (MIBK)	ND	5.0	---
Styrene	ND	1.0	---
1,1,2,2-Tetrachloroethane	3.4	1.0	---
Tetrachloroethene	8.3	1.0	---
Toluene	ND	1.0	---
1,1,2-Trichloroethane	1.9	1.0	---
1,1,1-Trichloroethane	1.1	1.0	---
Trichloroethene	63.7	1.0	---
Vinyl Chloride	ND	1.0	---
o-Xylene	ND	1.0	---
m,p-Xylene	ND	2.0	---
Methyl-tert-butyl ether	ND	1.0	---
Surr Compd - % Rec - Limits	---	---	---

SURROGATE	%RECOVERY	LIMITS
Dibromofluoromethane	96	86 - 118

Order # 05-11-036
12/05/05 15:10

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TEST RESULTS BY SAMPLE

Sample Description: MW-13

Lab No: 09A

Test Description: GC/MS Volatiles, SW846 8260 Method: SW 846 8260B Test Code: V_RSAA

Collected: 11/01/05 16:08

Category: GW

Toluene-d8	<u>95</u>	<u>88</u>	-	<u>110</u>
4-Bromofluorobenzene	<u>100</u>	<u>86</u>	-	<u>115</u>

Notes and Definitions for this Report:

DATE RUN 11/13/05 04:38:00

ANALYST JPG

CONC FACTOR 1

UNITS ug/L

12/05/05 15:10

TEST RESULTS BY SAMPLE

Sample Description: S-4

Lab No: 11A

Test Description: GC/MS Volatiles, SW846 8260 Method: SW 846 8260B Test Code: V_RSAA

Collected: 11/02/05 10:47

Category: GW

PARAMETER	RESULT	LIMIT	WEIGHT
Acetone	533	5.0	
Benzene	23.4	1.0	
Bromodichloromethane	ND	1.0	
Bromoform	ND	1.0	
Bromomethane	ND	1.0	
2-Butanone (MEK)	ND	5.0	
Carbon Disulfide	ND	1.0	
Carbon Tetrachloride	ND	1.0	
Chlorobenzene	434	1.0	
Chloroethane	0.9 J	1.0	
Chloroform	ND	1.0	
Chloromethane	ND	1.0	
Dibromochloromethane	ND	1.0	
1,2-Dibromoethane	ND	1.0	
1,2-Dibromo-3-Chloropropane	ND	1.0	
1,2-Dichloroethane	1.1	1.0	
1,1-Dichloroethane	2.8	1.0	
1,1-Dichloroethene	ND	1.0	
cis-1,2-Dichloroethene	0.8 J	1.0	
trans-1,2-Dichloroethene	0.8 J	1.0	
1,2-Dichloroethene, total	1.6 J	1.0	
Dichloromethane (MeCl2)	ND	1.0	
1,2-Dichloropropane	ND	1.0	
cis-1,3-Dichloropropene	ND	1.0	
trans-1,3-Dichloropropene	ND	1.0	
Ethylbenzene	ND	1.0	
2-Hexanone	ND	5.0	
Isopropylbenzene	ND	1.0	
4-Methyl-2-Pentanone (MIBK)	ND	5.0	
Styrene	ND	1.0	
1,1,2,2-Tetrachloroethane	ND	1.0	
Tetrachloroethene	ND	1.0	
Toluene	ND	1.0	
1,1,2-Trichloroethane	ND	1.0	
1,1,1-Trichloroethane	ND	1.0	
Trichloroethene	0.7 J	1.0	
Vinyl Chloride	1.7	1.0	
o-Xylene	ND	1.0	
m,p-Xylene	ND	2.0	
Methyl-tert-butyl ether	ND	1.0	
Surr Compd - % Rec - Limits			

SURROGATE	%RECOVERY	LIMITS
Dibromofluoromethane	97	86 - 118

TEST RESULTS BY SAMPLE

Sample Description: MW-10 Lab No: 14A
Test Description: GC/MS Volatiles, SW846 8260 Method: SW 846 8260B Test Code: V_RSAA
Collected: 11/02/05 18:30 Category: GW

PARAMETER	RESULT	LIMIT	WEIGHT
Acetone	15.7	5.0	
Benzene	ND	1.0	
Bromodichloromethane	ND	1.0	
Bromoform	ND	1.0	
Bromomethane	ND	1.0	
2-Butanone (MEK)	ND	5.0	
Carbon Disulfide	ND	1.0	
Carbon Tetrachloride	ND	1.0	
Chlorobenzene	ND	1.0	
Chloroethane	ND	1.0	
Chloroform	ND	1.0	
Chloromethane	ND	1.0	
Dibromochloromethane	ND	1.0	
1,2-Dibromoethane	ND	1.0	
1,2-Dibromo-3-Chloropropane	ND	1.0	
1,2-Dichloroethane	ND	1.0	
1,1-Dichloroethane	ND	1.0	
1,1-Dichloroethene	ND	1.0	
cis-1,2-Dichloroethene	ND	1.0	
trans-1,2 Dichloroethene	ND	1.0	
1,2-Dichloroethene, total	ND	1.0	
Dichloromethane (MeCl2)	ND	1.0	
1,2-Dichloropropane	ND	1.0	
cis-1,3-Dichloropropene	ND	1.0	
trans-1,3-Dichloropropene	ND	1.0	
Ethylbenzene	ND	1.0	
2-Hexanone	ND	5.0	
Isopropylbenzene	ND	1.0	
4-Methyl-2-Pentanone (MIBK)	ND	5.0	
Styrene	ND	1.0	
1,1,2,2-Tetrachloroethane	1.8	1.0	
Tetrachloroethene	1.5	1.0	
Toluene	ND	1.0	
1,1,2-Trichloroethane	ND	1.0	
1,1,1-Trichloroethane	ND	1.0	
Trichloroethene	8.9	1.0	
Vinyl Chloride	ND	1.0	
o-Xylene	ND	1.0	
m,p-Xylene	ND	2.0	
Methyl tert-butyl ether	2.1	1.0	
Surr Compd - % Rec - Limits			

SURROGATE	%RECOVERY	LIMITS
Dibromofluoromethane	96	86 - 118

TEST RESULTS BY SAMPLE

Sample Description: MW-10 MS Lab No: 14B
 Test Description: GC/MS Volatiles, SW846 8260 Method: SW 846 8260B Test Code: V_RSAA
 Collected: 11/02/05 18:30 Category: GW

PARAMETER	RESULT	LIMIT	WEIGHT
Acetone	<u>301- 114</u>	<u>5.0</u>	---
Benzene	<u>55.8- 112</u>	<u>1.0</u>	---
Bromodichloromethane	<u>51.2- 102</u>	<u>1.0</u>	---
Bromoform	<u>49.9- 100</u>	<u>1.0</u>	---
Bromomethane	<u>64.3- 129</u>	<u>1.0</u>	---
2-Butanone (MEK)	<u>274- 109</u>	<u>5.0</u>	---
Carbon Disulfide	<u>74.5- 149</u>	<u>1.0</u>	---
Carbon Tetrachloride	<u>55.2- 110</u>	<u>1.0</u>	---
Chlorobenzene	<u>53.4- 107</u>	<u>1.0</u>	---
Chloroethane	<u>57.8- 116</u>	<u>1.0</u>	---
Chloroform	<u>54.1- 108</u>	<u>1.0</u>	---
Chloromethane	<u>60.9- 122</u>	<u>1.0</u>	---
Dibromochloromethane	<u>51.8- 104</u>	<u>1.0</u>	---
1,2-Dibromoethane	<u>52.4- 105</u>	<u>1.0</u>	---
1,2-Dibromo-3-Chloropropane	<u>47.4- 95</u>	<u>1.0</u>	---
1,2-Dichloroethane	<u>51.9- 103</u>	<u>1.0</u>	---
1,1-Dichloroethane	<u>55.7- 111</u>	<u>1.0</u>	---
1,1-Dichloroethene	<u>53.6- 107</u>	<u>1.0</u>	---
cis-1,2-Dichloroethene	<u>53.6- 107</u>	<u>1.0</u>	---
trans-1,2-Dichloroethene	<u>54.0- 108</u>	<u>1.0</u>	---
1,2-Dichloroethene, total	<u>ND</u>	<u>1.0</u>	---
Dichloromethane (MeCl2)	<u>51.9- 104</u>	<u>1.0</u>	---
1,2-Dichloropropane	<u>53.2- 106</u>	<u>1.0</u>	---
cis-1,3-Dichloropropene	<u>54.2- 108</u>	<u>1.0</u>	---
trans-1,3-Dichloropropene	<u>56.8- 114</u>	<u>1.0</u>	---
Ethylbenzene	<u>56.7- 113</u>	<u>1.0</u>	---
2-Hexanone	<u>135- 108</u>	<u>5.0</u>	---
Isopropylbenzene	<u>62.2- 124</u>	<u>1.0</u>	---
4-Methyl-2-Pentanone (MIBK)	<u>138- 110</u>	<u>5.0</u>	---
Styrene	<u>61.5- 123</u>	<u>1.0</u>	---
1,1,1,2-Tetrachloroethane	<u>54.9- 106</u>	<u>1.0</u>	---
Tetrachloroethene	<u>56.7- 110</u>	<u>1.0</u>	---
Toluene	<u>54.8- 110</u>	<u>1.0</u>	---
1,1,2-Trichloroethane	<u>50.3- 100</u>	<u>1.0</u>	---
1,1,1-Trichloroethane	<u>54.8- 109</u>	<u>1.0</u>	---
Trichloroethene	<u>61.6- 105</u>	<u>1.0</u>	---
Vinyl Chloride	<u>60.4- 121</u>	<u>1.0</u>	---
o-Xylene	<u>55.7- 111</u>	<u>1.0</u>	---
m,p-Xylene	<u>115- 115</u>	<u>2.0</u>	---
Methyl-tert-butyl ether	<u>37.7- 71</u>	<u>1.0</u>	---
Surr Compd - % Rec - Limits	---	---	---

SURROGATE	%RECOVERY	LIMITS
Dibromofluoromethane	<u>101</u>	<u>86 - 118</u>

12/05/05 15:10

TEST RESULTS BY SAMPLE

Sample Description: MW-10 MS

Lab No: 14B

Test Description: GC/MS Volatiles, SW846 8260 Method: SW 846 8260B Test Code: V_RSAA

Collected: 11/02/05 18:30

Category: GW

Toluene-d8	<u>97</u>	<u>88</u>	-	<u>110</u>
4-Bromofluorobenzene	<u>99</u>	<u>86</u>	-	<u>115</u>

Notes and Definitions for this Report:

DATE RUN 11/13/05 20:27:00

ANALYST JPG

CONC FACTOR 1

UNITS ug/L- *Recovery

TEST RESULTS BY SAMPLE

Sample Description: MW-10 MSD Lab No: 14C
 Test Description: GC/MS Volatiles, SW846 8260 Method: SW 846 8260B Test Code: V_RSAA
 Collected: 11/02/05 18:30 Category: GW

PARAMETER	RESULT	LIMIT	WEIGHT
Acetone	276- 104	5.0	---
Benzene	51.5- 103	1.0	---
Bromodichloromethane	47.8- 96	1.0	---
Bromoform	47.3- 95	1.0	---
Bromomethane	58.5- 117	1.0	---
2-Butanone (MEK)	256- 102	5.0	---
Carbon Disulfide	69.1- 138	1.0	---
Carbon Tetrachloride	51.5- 103	1.0	---
Chlorobenzene	48.7- 97	1.0	---
Chloroethane	53.9- 108	1.0	---
Chloroform	50.0- 100	1.0	---
Chloromethane	55.5- 111	1.0	---
Dibromochloromethane	48.0- 96	1.0	---
1,2-Dibromoethane	48.2- 96	1.0	---
1,2-Dibromo-3-Chloropropane	47.9- 96	1.0	---
1,2-Dichloroethane	48.3- 96	1.0	---
1,1-Dichloroethane	52.4- 105	1.0	---
1,1-Dichloroethene	49.6- 99	1.0	---
cis-1,2-Dichloroethene	49.7- 99	1.0	---
trans-1,2-Dichloroethene	50.3- 101	1.0	---
1,2-Dichloroethene, total	ND	1.0	---
Dichloromethane (MeCl2)	48.6- 97	1.0	---
1,2 Dichloropropane	49.4- 99	1.0	---
cis-1,3-Dichloropropene	50.5- 101	1.0	---
trans-1,3-Dichloropropene	52.7- 105	1.0	---
Ethylbenzene	51.2- 102	1.0	---
2-Hexanone	127- 101	5.0	---
Isopropylbenzene	56.4- 113	1.0	---
4-Methyl-2-Pentanone (MIBK)	131- 105	5.0	---
Styrene	55.5- 111	1.0	---
1,1,2,2-Tetrachloroethane	50.2- 97	1.0	---
Tetrachloroethene	52.3- 102	1.0	---
Toluene	51.1- 102	1.0	---
1,1,2-Trichloroethane	46.4- 93	1.0	---
1,1,1-Trichloroethane	51.2- 102	1.0	---
Trichloroethene	58.2- 99	1.0	---
Vinyl Chloride	53.4- 107	1.0	---
o-Xylene	50.3- 101	1.0	---
m,p-Xylene	105- 105	2.0	---
Methyl-tert-butyl ether	39.9- 76	1.0	---
Surr Cmpd - & Rec - Limits	---	---	---

SURROGATE	%RECOVERY	LIMITS
Dibromofluoromethane	101	86 - 118

Order # 05-11-036
12/05/05 15:10

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TEST RESULTS BY SAMPLE

Sample Description: MW-10 MSD Lab No: 14C
Test Description: GC/MS Volatiles, SW846 8260 Method: SW 846 8260B Test Code: V_RSAA
Collected: 11/02/05 18:30 Category: GW

Toluene-d8	<u>97</u>	<u>88</u>	-	<u>110</u>
4-Bromofluorobenzene	<u>98</u>	<u>86</u>	-	<u>115</u>

Notes and Definitions for this Report:

DATE RUN 11/13/05 21:00:00

ANALYST JPG

CONC FACTOR 1

UNITS ug/L- %Recovery

Order # 05-11-036
12/05/05 15:10

TEST METHODOLOGIES

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Volatile Organics by GC/MS (aqueous)
SW846 Method 8260B (purge & trap, capillary column GC/MS)

CHAIN OF CUSTODY RECORD

PROJECT NAME GE Railcar - Elkton
 COMPANY RSA
 ADDRESS 2222 Western Trails Blvd., Austin, TX 78745
 PHONE (512) 707-1777



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 Laboratories, Incorporated

COC 1 of 2

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Matthew Wise

SAMPLED BY Matthew R. Wise
 SIGNATURE Matthew R. Wise
 PRINT NAME

SAMPLE COLLECTION FEE: _____
 QUOTED PRICE: _____

051103x

SAMPLE NO	DATE	TIME	SAMPLE LOCATION	CONTAINER		GRAB	CORP	NO. OF CONTAINERS	SAMPLE MATRIX	PRESERVATIVE	ANALYSES	COMMENTS
				SIZE	G-P							
1	10.31.05	1055	Trip Blank	1/0	G			2	W	Hcl/Ice		Laboratory prepared
2	10.31.05	1055	MW-14	1/0	G	X		3	W	Hcl/Ice		
3		1335	S-5					3				
4		1450	10.31.05 Equipment Blank					2				*Target VOC list
5		1600	MW-32					3				
6		1602	MW-32 MS					3				
7	V	1603	MW-32 MSD					3				
8	11.1.05	0955	MW-18					3				
9		1135	MW-30					3				
10		1353	MW-4					3				
11		1608	MW-13					3				
12	V	1731	MW-5					3				
13	11.2.05	1047	S-4					3				
14		1312	S-3					3				
15	V	1708	S-2					3				

Page 2

Relinquished by: <u>Matthew R. Wise</u>	Date / Time: <u>11.3.05 1240</u>	Received by:	Relinquished by:	Date / Time:	Received by:
Relinquished by:	Date / Time:	Received by:	Relinquished by:	Date / Time: <u>11/3/05 12:45</u>	Received for Laboratory by: <u>[Signature]</u>

Method of Shipment: _____

Remarks: _____

Samples Iced: YES NO
 Samples Preserved: YES NO

GLOSSARY OF DATA QUALIFIER CODES (ORGANIC)

- B** = Not detected substantially above the level reported in laboratory or field blanks
- J** = Analyte present. Reported Value may not be accurate or precise
- E** = Analyte present, exceeds calibration range
- U** = Analyte analyzed for, undetected.
- N** = Tentative Identification. Consider present. Special methods may be needed to confirm its presence or absence in future sampling efforts.

REPORT OF ANALYSIS

Rosengarten, Smith & Assoc.
2222 Western Trails Blvd.
Suite 300
Austin, TX 78745
Attn: Mr. Charles Montero
Invoice Number: 113954

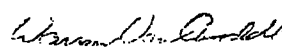
Order #: 05-11-037
Date: 11/22/05 17:16
Work ID: GE Railcar, Elkton
Date Received: 11/03/05
Date Completed: 11/22/05
Client Code: RSA

SAMPLE IDENTIFICATION

<u>Sample Number</u>	<u>Sample Description</u>	<u>Sample Number</u>	<u>Sample Description</u>
01	MW-31	10	MW-8
02	MW-29	11	S-1
03	MW-27	12	MW-9
04	MW-39	13	MW-7
05	MW-24	14	MW-11
06	MW-25	15	EQUIPMENT BLANK
07	EQUIPMENT BLANK	16	MW-6
08	MW-28	17	MW-12R
09	MW-26	18	TRIP BLANK

This cover page is an integral part of the analytical report.

Laboratory Certifications: DE DE00011 PA 68-335
MD 138 NJ DE568



Certified By
Warren Van Arsdall

TEST RESULTS BY SAMPLE

Sample Description: MW-31 Lab No: 01A
Test Description: GC/MS Volatiles, SW846 B260 Method: SW 846 B260B Test Code: V_RSAA
Collected: 10/31/05 13:42 Category: GW

PARAMETER	RESULT	LIMIT	WEIGHT
Acetone	ND	5.0	
Benzene	ND	1.0	
Bromodichloromethane	ND	1.0	
Bromoform	ND	1.0	
Bromomethane	ND	1.0	
2-Butanone (MEK)	ND	5.0	
Carbon Disulfide	ND	1.0	
Carbon Tetrachloride	ND	1.0	
Chlorobenzene	ND	1.0	
Chloroethane	ND	1.0	
Chloroform	ND	1.0	
Chloromethane	ND	1.0	
Dibromochloromethane	ND	1.0	
1,2-Dibromoethane	ND	1.0	
1,2-Dibromo-3-Chloropropane	ND	1.0	
1,2-Dichloroethane	ND	1.0	
1,1-Dichloroethane	ND	1.0	
1,1-Dichloroethene	ND	1.0	
cis-1,2-Dichloroethene	0.8 J	1.0	
trans-1,2-Dichloroethene	ND	1.0	
1,2-Dichloroethene, total	0.8 J	1.0	
Dichloromethane (MeCl2)	ND	1.0	
1,2-Dichloropropane	ND	1.0	
cis-1,3-Dichloropropene	ND	1.0	
trans-1,3-Dichloropropene	ND	1.0	
Ethylbenzene	ND	1.0	
2-Hexanone	ND	5.0	
Isopropylbenzene	ND	1.0	
4-Methyl-2-Pentanone (MIBK)	ND	5.0	
Styrene	ND	1.0	
1,1,2,2-Tetrachloroethane	ND	1.0	
Tetrachloroethene	8.2	1.0	
Toluene	ND	1.0	
1,1,2-Trichloroethane	ND	1.0	
1,1,1-Trichloroethane	ND	1.0	
Trichloroethene	0.6 J	1.0	
Vinyl Chloride	ND	1.0	
o-Xylene	ND	1.0	
m,p-Xylene	ND	2.0	
Methyl-tert-butyl ether	ND	1.0	
Surr Cmpd - % Rec - Limits			

12/05/05 15:12

TEST RESULTS BY SAMPLE

Sample Description: MW-31

Lab No: 01A

Test Description: GC/MS Volatiles, SW846 8260 Method: SW 846 8260B Test Code: V_RSAA

Collected: 10/31/05 13:42

Category: GW

SURROGATE	%RECOVERY	LIMITS
Dibromofluoromethane	<u>101</u>	<u>86</u> - <u>118</u>
Toluene-d8	<u>98</u>	<u>88</u> - <u>110</u>
4-Bromofluorobenzene	<u>98</u>	<u>86</u> - <u>115</u>

Notes and Definitions for this Report:

DATE RUN 11/13/05 00:46:00

ANALYST JPG

CONC FACTOR 1

UNITS ug/L

12/05/05 15:12

TEST RESULTS BY SAMPLE

Sample Description: MW-29

Lab No: 02A

Test Description: GC/MS Volatiles, SW846 8260

Method: SW 846 8260B Test Code: V_RSAA

Collected: 10/31/05 16:40

Category: GW

PARAMETER	RESULT	LIMIT	WEIGHT
Acetone	4.2 J	5.0	
Benzene	ND	1.0	
Bromodichloromethane	ND	1.0	
Bromoform	ND	1.0	
Bromomethane	ND	1.0	
2-Butanone (MEK)	ND	5.0	
Carbon Disulfide	ND	1.0	
Carbon Tetrachloride	ND	1.0	
Chlorobenzene	ND	1.0	
Chloroethane	ND	1.0	
Chloroform	ND	1.0	
Chloromethane	ND	1.0	
Dibromochloromethane	ND	1.0	
1,2-Dibromoethane	ND	1.0	
1,2-Dibromo-3-Chloropropane	ND	1.0	
1,2-Dichloroethane	ND	1.0	
1,1-Dichloroethane	ND	1.0	
1,1-Dichloroethene	ND	1.0	
cis-1,2-Dichloroethene	ND	1.0	
trans-1,2-Dichloroethene	ND	1.0	
1,2-Dichloroethene, total	ND	1.0	
Dichloromethane (MeCl2)	ND	1.0	
1,2 Dichloropropane	ND	1.0	
cis-1,3-Dichloropropene	ND	1.0	
trans-1,3-Dichloropropene	ND	1.0	
Ethylbenzene	ND	1.0	
2-Hexanone	ND	5.0	
Isopropylbenzene	ND	1.0	
4-Methyl-2-Pentanone (MIBK)	ND	5.0	
Styrene	ND	1.0	
1,1,2,2-Tetrachloroethane	ND	1.0	
Tetrachloroethene	ND	1.0	
Toluene	ND	1.0	
1,1,2-Trichloroethane	ND	1.0	
1,1,1-Trichloroethane	ND	1.0	
Trichloroethene	ND	1.0	
Vinyl Chloride	ND	1.0	
o-Xylene	ND	1.0	
m,p-Xylene	ND	2.0	
Methyl-tert-butyl ether	ND	1.0	
Surr Compd - % Rec - Limits			

SURROGATE	%RECOVERY	LIMITS
Dibromofluoromethane	103	86 - 118

12/05/05 15:12

TEST RESULTS BY SAMPLE

Sample Description: MW-29

Lab No: 02A

Test Description: GC/MS Volatiles, SW846 8260 Method: SW 846 8260B Test Code: V_RSAA

Collected: 10/31/05 16:40

Category: GW

Toluene-d8	<u>98</u>	<u>88</u>	-	<u>110</u>
4-Bromofluorobenzene	<u>99</u>	<u>86</u>	-	<u>115</u>

Notes and Definitions for this Report:

DATE RUN 11/13/05 01:19:00

ANALYST JPG

CONC FACTOR 1

UNITS ug/L

12/05/05 15:12

TEST RESULTS BY SAMPLE

Sample Description: MW-27

Lab No: 03A

Test Description: GC/MS Volatiles, SW846 8260 Method: SW 846 8260B Test Code: V_RSAA

Collected: 11/01/05 09:45

Category: GW

Toluene-d8	<u>99</u>	<u>88</u>	-	<u>110</u>
4-Bromofluorobenzene	<u>99</u>	<u>86</u>	-	<u>115</u>

Notes and Definitions for this Report:

DATE RUN 11/13/05 04:05:00

ANALYST JPG

CONC FACTOR 1

UNITS ug/L

TEST RESULTS BY SAMPLE

Sample Description: MW-39 Lab No: 04A
Test Description: GC/MS Volatiles, SW846 8260 Method: SW 846 8260B Test Code: V_RSAA
Collected: 11/01/05 11:10 Category: GW

PARAMETER	RESULT	LIMIT	WEIGHT
Acetone	ND	5.0	
Benzene	ND	1.0	
Bromodichloromethane	ND	1.0	
Bromoform	ND	1.0	
Bromomethane	ND	1.0	
2-Butanone (MEK)	ND	5.0	
Carbon Disulfide	ND	1.0	
Carbon Tetrachloride	ND	1.0	
Chlorobenzene	ND	1.0	
Chloroethane	ND	1.0	
Chloroform	ND	1.0	
Chloromethane	ND	1.0	
Dibromochloromethane	ND	1.0	
1,2-Dibromoethane	ND	1.0	
1,2-Dibromo-3-Chloropropane	ND	1.0	
1,2-Dichloroethane	ND	1.0	
1,1-Dichloroethane	ND	1.0	
1,1-Dichloroethene	ND	1.0	
cis-1,2-Dichloroethene	ND	1.0	
trans-1,2-Dichloroethene	ND	1.0	
1,2-Dichloroethene, total	ND	1.0	
Dichloromethane (MeCl2)	ND	1.0	
1,2-Dichloropropane	ND	1.0	
cis 1,3-Dichloropropene	ND	1.0	
trans-1,3-Dichloropropene	ND	1.0	
Ethylbenzene	ND	1.0	
2-Hexanone	ND	5.0	
Isopropylbenzene	ND	1.0	
4-Methyl-2-Pentanone (MIBK)	ND	5.0	
Styrene	ND	1.0	
1,1,2,2-Tetrachloroethane	ND	1.0	
Tetrachloroethene	4.2	1.0	
Toluene	ND	1.0	
1,1,2-Trichloroethane	ND	1.0	
1,1,1-Trichloroethane	ND	1.0	
Trichloroethene	ND	1.0	
Vinyl Chloride	ND	1.0	
o-Xylene	ND	1.0	
m,p-Xylene	ND	2.0	
Methyl-tert-butyl ether	ND	1.0	
Surr Cmpd - % Rec - Limits			

SURROGATE	%RECOVERY	LIMITS
Dibromofluoromethane	100	86 - 118

Order # 05-11-037

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12/05/05 15:12

TEST RESULTS BY SAMPLE

Sample Description: MW-39

Lab No: 04A

Test Description: GC/MS Volatiles, SW846 8260 Method: SW 846 8260B Test Code: V_RSAA

Collected: 11/01/05 11:10

Category: GW

Toluene-d8	<u>98</u>	<u>88</u>	-	<u>110</u>
4-Bromofluorobenzene	<u>97</u>	<u>86</u>	-	<u>115</u>

Notes and Definitions for this Report:

DATE RUN 11/13/05 13:48:00

ANALYST JPG

CONC FACTOR 1

UNITS ug/L

12/05/05 15:12

TEST RESULTS BY SAMPLE

Sample Description: MW-24

Lab No: 05A

Test Description: GC/MS Volatiles, SW846 8260 Method: SW 846 8260B Test Code: V_RSAA

Collected: 11/01/05 12:40

Category: GW

PARAMETER	RESULT	LIMIT	WEIGHT
Acetone	10.0	5.0	---
Benzene	ND	1.0	---
Bromodichloromethane	ND	1.0	---
Bromoform	ND	1.0	---
Bromomethane	ND	1.0	---
2-Butanone (MEK)	ND	5.0	---
Carbon Disulfide	ND	1.0	---
Carbon Tetrachloride	ND	1.0	---
Chlorobenzene	ND	1.0	---
Chloroethane	ND	1.0	---
Chloroform	ND	1.0	---
Chloromethane	ND	1.0	---
Dibromochloromethane	ND	1.0	---
1,2-Dibromoethane	ND	1.0	---
1,2-Dibromo-3-Chloropropane	ND	1.0	---
1,2-Dichloroethane	ND	1.0	---
1,1-Dichloroethane	ND	1.0	---
1,1-Dichloroethene	ND	1.0	---
cis-1,2-Dichloroethene	ND	1.0	---
trans-1,2-Dichloroethene	ND	1.0	---
1,2-Dichloroethene, total	ND	1.0	---
Dichloromethane (MeCl2)	ND	1.0	---
1,2-Dichloropropane	ND	1.0	---
cis-1,3-Dichloropropene	ND	1.0	---
trans-1,3-Dichloropropene	ND	1.0	---
Ethylbenzene	ND	1.0	---
2-Hexanone	ND	5.0	---
Isopropylbenzene	ND	1.0	---
4-Methyl-2-Pentanone (MIBK)	ND	5.0	---
Styrene	ND	1.0	---
1,1,2,2-Tetrachloroethane	ND	1.0	---
Tetrachloroethene	ND	1.0	---
Toluene	ND	1.0	---
1,1,2-Trichloroethane	ND	1.0	---
1,1,1-Trichloroethane	ND	1.0	---
Trichloroethene	ND	1.0	---
Vinyl Chloride	ND	1.0	---
o-Xylene	ND	1.0	---
m,p-Xylene	ND	2.0	---
Methyl-tert-butyl ether	ND	1.0	---
Surr Compd - % Rec - Limits			

SURROGATE	%RECOVERY	LIMITS
Dibromofluoromethane	99	86 - 118

Order # 05-11-037
12/05/05 15:12

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TEST RESULTS BY SAMPLE

Sample Description: MW-24

Lab No: 05A

Test Description: GC/MS Volatiles, SW846 8260 Method: SW 846 8260B Test Code: V_RSAA

Collected: 11/01/05 12:40

Category: GW

Toluene-d8	<u>98</u>	<u>88</u>	-	<u>110</u>
4-Bromofluorobenzene	<u>98</u>	<u>86</u>	-	<u>115</u>

Notes and Definitions for this Report:

DATE RUN 11/13/05 14:21:00

ANALYST JPG

CONC FACTOR 1

UNITS ug/L

12/05/05 15:12

TEST RESULTS BY SAMPLE

Sample Description: MW-25

Lab No: 06A

Test Description: GC/MS Volatiles, SW846 8260 Method: SW 846 8260B Test Code: V_RSAA

Collected: 11/01/05 13:50

Category: GW

PARAMETER	RESULT	LIMIT	WEIGHT
Acetone	29.2	5.0	
Benzene	ND	1.0	
Bromodichloromethane	ND	1.0	
Bromoform	ND	1.0	
Bromomethane	ND	1.0	
2-Butanone (MEK)	ND	5.0	
Carbon Disulfide	ND	1.0	
Carbon Tetrachloride	ND	1.0	
Chlorobenzene	ND	1.0	
Chloroethane	ND	1.0	
Chloroform	ND	1.0	
Chloromethane	ND	1.0	
Dibromochloromethane	ND	1.0	
1,2-Dibromoethane	ND	1.0	
1,2-Dibromo-3-Chloropropane	ND	1.0	
1,2-Dichloroethane	ND	1.0	
1,1-Dichloroethane	ND	1.0	
1,1-Dichloroethene	ND	1.0	
cis-1,2-Dichloroethene	ND	1.0	
trans-1,2-Dichloroethene	ND	1.0	
1,2-Dichloroethene, total	ND	1.0	
Dichloromethane (MeCl2)	ND	1.0	
1,2-Dichloropropane	ND	1.0	
cis-1,3-Dichloropropene	ND	1.0	
trans-1,3-Dichloropropene	ND	1.0	
Ethylbenzene	ND	1.0	
2-Hexanone	ND	5.0	
Isopropylbenzene	ND	1.0	
4-Methyl-2-Pentanone (MIBK)	ND	5.0	
Styrene	ND	1.0	
1,1,2,2-Tetrachloroethane	ND	1.0	
Tetrachloroethene	ND	1.0	
Toluene	ND	1.0	
1,1,2-Trichloroethane	ND	1.0	
1,1,1-Trichloroethane	ND	1.0	
Trichloroethene	ND	1.0	
Vinyl Chloride	ND	1.0	
o-Xylene	ND	1.0	
m,p-Xylene	ND	2.0	
Methyl-tert-butyl ether	ND	1.0	
Surr Cmpd - % Rec - Limits			

SURROGATE	%RECOVERY	LIMITS
Dibromofluoromethane	98	86 - 118

12/05/05 15:12

TEST RESULTS BY SAMPLE

Sample Description: MW-25

Lab No: 06A

Test Description: GC/MS Volatiles, SW846 8260 Method: SW 846 8260B Test Code: V_RSAA

Collected: 11/01/05 13:50

Category: GW

Toluene d8	<u>98</u>	<u>88</u>	-	<u>110</u>
4-Bromofluorobenzene	<u>98</u>	<u>86</u>	-	<u>115</u>

Notes and Definitions for this Report:

DATE RUN 11/13/05 14:55:00

ANALYST JPG

CONC FACTOR 1

UNITS ug/L

TEST RESULTS BY SAMPLE

Sample Description: EQUIPMENT BLANK Lab No: 07A
Test Description: GC/MS Volatiles, SW846 8260 Method: SW 846 8260B Test Code: V_RSAA
Collected: 11/01/05 14:15 Category: GW

PARAMETER	RESULT	LIMIT	WEIGHT
Acetone	ND	5.0	
Benzene	ND	1.0	
Bromodichloromethane	ND	1.0	
Bromoform	ND	1.0	
Bromomethane	ND	1.0	
2-Butanone (MEK)	ND	5.0	
Carbon Disulfide	ND	1.0	
Carbor. Tetrachloride	ND	1.0	
Chlorobenzene	ND	1.0	
Chloroethane	ND	1.0	
Chloroform	ND	1.0	
Chloromethane	ND	1.0	
Dibromochloromethane	ND	1.0	
1,2-Dibromoethane	ND	1.0	
1,2-Dibromo-3-Chloropropane	ND	1.0	
1,2-Dichloroethane	ND	1.0	
1,1-Dichloroethane	ND	1.0	
1,1-Dichloroethene	ND	1.0	
cis-1,2-Dichloroethene	ND	1.0	
trans-1,2-Dichloroethene	ND	1.0	
1,2-Dichloroethene, total	ND	1.0	
Dichloromethane (MeCl2)	ND	1.0	
1,2-Dichloropropane	ND	1.0	
cis-1,3-Dichloropropene	ND	1.0	
trans-1,3-Dichloropropene	ND	1.0	
Ethylbenzene	ND	1.0	
2-Hexanone	ND	5.0	
Isopropylbenzene	ND	1.0	
4-Methyl-2-Pentanone (MIBK)	ND	5.0	
Styrene	ND	1.0	
1,1,2,2-Tetrachloroethane	ND	1.0	
Tetrachloroethene	ND	1.0	
Toluene	ND	1.0	
1,1,2-Trichloroethane	ND	1.0	
1,1,1-Trichloroethane	ND	1.0	
Trichloroethene	ND	1.0	
Vinyl Chloride	ND	1.0	
o-Xylene	ND	1.0	
m,p-Xylene	ND	2.0	
Methyl-tert-butyl ether	ND	1.0	
Surr Cmpd - % Rec - Limits			

SURROGATE	%RECOVERY	LIMITS
Dibromofluoromethane	103	86 - 118

12/05/05 15:12

TEST RESULTS BY SAMPLE

Sample Description: EQUIPMENT BLANK

Lab No: 07A

Test Description: GC/MS Volatiles, SW846 8260 Method: SW 846 8260B Test Code: V_RSAA

Collected: 11/01/05 14:15

Category: GW

Toluene-d8	<u>98</u>	<u>88</u>	-	<u>110</u>
4-Bromofluorobenzene	<u>99</u>	<u>86</u>	-	<u>115</u>

Notes and Definitions for this Report:

DATE RUN 11/13/05 12:09:00

ANALYST JPG

CONC FACTOR 1

UNITS ug/L

Order # 05-11-037
12/05/05 15:12

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TEST RESULTS BY SAMPLE

Sample Description: MW-28

Lab No: 08A

Test Description: GC/MS Volatiles, SW846 8260 Method: SW 846 8260B Test Code: V_RSAA

Collected: 11/01/05 15:53

Category: GW

Toluene-d8	<u>98</u>	<u>88</u>	-	<u>110</u>
4-Bromofluorobenzene	<u>101</u>	<u>86</u>	-	<u>115</u>

Notes and Definitions for this Report:

DATE RUN 11/13/05 15:28:00

ANALYST JPG

CONC FACTOR 1

UNITS ug/L

12/05/05 15:12

TEST RESULTS BY SAMPLE

Sample Description: MW-26

Lab No: 09A

Test Description: GC/MS Volatiles, SW846 8260 Method: SW 846 8260B Test Code: V_RSAA

Collected: 11/01/05 17:05

Category: GW

Toluene-d8	<u>97</u>	<u>88</u>	-	<u>110</u>
4-Bromofluorobenzene	<u>100</u>	<u>86</u>	-	<u>115</u>

Notes and Definitions for this Report:

DATE RUN 11/13/05 16:01:00

ANALYST JPG

CONC FACTOR 1

UNITS ug/L

TEST RESULTS BY SAMPLE

Sample Description: MW-8 Lab No: 10A
 Test Description: GC/MS Volatiles, SW846 B260 Method: SW 846 B260B Test Code: V_RSAA
 Collected: 11/02/05 09:55 Category: GW

PARAMETER	RESULT	LIMIT	WEIGHT
Acetone	6.5	5.0	
Benzene	ND	1.0	
Bromodichloromethane	ND	1.0	
Bromoform	ND	1.0	
Bromomethane	ND	1.0	
2-Butanone (MEK)	ND	5.0	
Carbon Disulfide	ND	1.0	
Carbon Tetrachloride	ND	1.0	
Chlorobenzene	ND	1.0	
Chloroethane	ND	1.0	
Chloroform	ND	1.0	
Chloromethane	ND	1.0	
Dibromochloromethane	ND	1.0	
1,2-Dibromoethane	ND	1.0	
1,2-Dibromo-3-Chloropropane	ND	1.0	
1,2-Dichloroethane	ND	1.0	
1,1-Dichloroethane	ND	1.0	
1,1-Dichloroethene	ND	1.0	
cis-1,2-Dichloroethene	ND	1.0	
trans-1,2-Dichloroethene	ND	1.0	
1,2-Dichloroethene, total	ND	1.0	
Dichloromethane (MeCl2)	ND	1.0	
1,2-Dichloropropane	ND	1.0	
cis-1,3-Dichloropropene	ND	1.0	
trans-1,3-Dichloropropene	ND	1.0	
Ethylbenzene	ND	1.0	
2 Hexanone	ND	5.0	
Isopropylbenzene	ND	1.0	
4-Methyl-2-Pentanone (MIBK)	ND	5.0	
Styrene	ND	1.0	
1,1,2,2-Tetrachloroethane	ND	1.0	
Tetrachloroethene	ND	1.0	
Toluene	ND	1.0	
1,1,2-Trichloroethane	ND	1.0	
1,1,1 Trichloroethane	ND	1.0	
Trichloroethene	ND	1.0	
Vinyl Chloride	ND	1.0	
o-Xylene	ND	1.0	
m,p-Xylene	ND	2.0	
Methyl-tert-butyl ether	1.1	1.0	
Surr Cmpd - % Rec - Limits			

SURROGATE	%RECOVERY	LIMITS
Dibromofluoromethane	96	86 - 118

12/05/05 15:12

TEST RESULTS BY SAMPLE

Sample Description: MW-8

Lab No: 10A

Test Description: GC/MS Volatiles, SW846 8260 Method: SW 846 8260B Test Code: V_RSAA

Collected: 11/02/05 09:55

Category: GW

Toluene-d8	<u>99</u>	<u>88</u>	-	<u>110</u>
4-Bromofluorobenzene	<u>100</u>	<u>86</u>	-	<u>115</u>

Notes and Definitions for this Report:

DATE RUN 11/13/05 18:47:00

ANALYST JPG

CONC FACTOR 1

UNITS ug/L

TEST RESULTS BY SAMPLE

Sample Description: S-1 Lab No: 11A
Test Description: GC/MS Volatiles, SW846 8260 Method: SW 846 8260B Test Code: V_RSAA
Collected: 11/02/05 10:55 Category: GW

PARAMETER	RESULT	LIMIT	WEIGHT
Acetone	148	5.0	
Benzene	ND	1.0	
Bromodichloromethane	ND	1.0	
Bromoform	ND	1.0	
Bromomethane	ND	1.0	
2-Butanone (MEK)	ND	5.0	
Carbon Disulfide	ND	1.0	
Carbon Tetrachloride	ND	1.0	
Chlorobenzene	ND	1.0	
Chloroethane	ND	1.0	
Chloroform	ND	1.0	
Chloromethane	ND	1.0	
Dibromochloromethane	ND	1.0	
1,2-Dibromoethane	ND	1.0	
1,2-Dibromo-3-Chloropropane	ND	1.0	
1,2-Dichloroethane	ND	1.0	
1,1-Dichloroethane	ND	1.0	
1,1-Dichloroethene	ND	1.0	
cis-1,2-Dichloroethene	ND	1.0	
trans-1,2-Dichloroethene	ND	1.0	
1,2-Dichloroethene, total	ND	1.0	
Dichloromethane (MeCl2)	ND	1.0	
1,2-Dichloropropane	ND	1.0	
cis-1,3-Dichloropropene	ND	1.0	
trans-1,3-Dichloropropene	ND	1.0	
Ethylbenzene	ND	1.0	
2-Hexanone	ND	5.0	
Isopropylbenzene	ND	1.0	
4-Methyl-2-Pentanone (MIBK)	ND	5.0	
Styrene	ND	1.0	
1,1,2,2-Tetrachloroethane	ND	1.0	
Tetrachloroethene	ND	1.0	
Toluene	ND	1.0	
1,1,2-Trichloroethane	ND	1.0	
1,1,1-Trichloroethane	ND	1.0	
Trichloroethene	ND	1.0	
Vinyl Chloride	ND	1.0	
o-Xylene	ND	1.0	
m,p-Xylene	ND	2.0	
Methyl-tert-butyl ether	ND	1.0	
Surr Compd - % Rec - Limits			

SURROGATE	%RECOVERY	LIMITS
Dibromofluoromethane	97	86 - 118

12/05/05 15:12

TEST RESULTS BY SAMPLE

Sample Description: MW-9

Lab No: 12A

Test Description: GC/MS Volatiles, SW846 8260 Method: SW 846 8260B Test Code: V_RSAA

Collected: 11/02/05 12:10

Category: GW

PARAMETER	RESULT	LIMIT	WEIGHT
Acetone	487	5.0	
Benzene	ND	1.0	
Bromodichloromethane	ND	1.0	
Bromoform	ND	1.0	
Bromomethane	ND	1.0	
2-Butanone (MEK)	ND	5.0	
Carbon Disulfide	ND	1.0	
Carbon Tetrachloride	ND	1.0	
Chlorobenzene	ND	1.0	
Chloroethane	ND	1.0	
Chloroform	ND	1.0	
Chloromethane	ND	1.0	
Dibromochloromethane	ND	1.0	
1,2-Dibromoethane	ND	1.0	
1,2-Dibromo-3-Chloropropane	ND	1.0	
1,2-Dichloroethane	ND	1.0	
1,1-Dichloroethane	ND	1.0	
1,1-Dichloroethene	ND	1.0	
cis-1,2-Dichloroethene	ND	1.0	
trans-1,2-Dichloroethene	ND	1.0	
1,2-Dichloroethene, total	ND	1.0	
Dichloromethane (MeCl2)	ND	1.0	
1,2-Dichloropropane	ND	1.0	
cis-1,3-Dichloropropene	ND	1.0	
trans-1,3-Dichloropropene	ND	1.0	
Ethylbenzene	ND	1.0	
2-Hexanone	ND	5.0	
Isopropylbenzene	ND	1.0	
4-Methyl-2-Pentanone (MIBK)	ND	5.0	
Styrene	ND	1.0	
1,1,2,2-Tetrachloroethane	ND	1.0	
Tetrachloroethene	ND	1.0	
Toluene	ND	1.0	
1,1,2-Trichloroethane	ND	1.0	
1,1,1-Trichloroethane	ND	1.0	
Trichloroethene	ND	1.0	
Vinyl Chloride	ND	1.0	
o-Xylene	ND	1.0	
m,p-Xylene	ND	2.0	
Methyl-tert-butyl ether	ND	1.0	
Surr Compd - % Rec - Limits			

SURROGATE	%RECOVERY	LIMITS
Dibromofluoromethane	97	86 - 118

TEST RESULTS BY SAMPLE

Sample Description: MW-7 Lab No: 13A
Test Description: GC/MS Volatiles, SW846 8260 Method: SW 846 8260B Test Code: V_RSAA
Collected: 11/02/05 13:10 Category: GW

PARAMETER	RESULT	LIMIT	WEIGHT
Acetone	ND	5.0	
Benzene	ND	1.0	
Bromodichloromethane	ND	1.0	
Bromoform	ND	1.0	
Bromomethane	ND	1.0	
2-Butanone (MEK)	ND	5.0	
Carbon Disulfide	ND	1.0	
Carbon Tetrachloride	ND	1.0	
Chlorobenzene	ND	1.0	
Chloroethane	ND	1.0	
Chloroform	ND	1.0	
Chloromethane	ND	1.0	
Dibromochloromethane	ND	1.0	
1,2-Dibromoethane	ND	1.0	
1,2-Dibromo-3-Chloropropane	ND	1.0	
1,2-Dichloroethane	ND	1.0	
1,1-Dichloroethane	ND	1.0	
1,1-Dichloroethene	ND	1.0	
cis-1,2-Dichloroethene	ND	1.0	
trans-1,2-Dichloroethene	ND	1.0	
1,2-Dichloroethene, total	ND	1.0	
Dichloromethane (MeCl2)	ND	1.0	
1,2-Dichloropropane	ND	1.0	
cis-1,3-Dichloropropene	ND	1.0	
trans-1,3-Dichloropropene	ND	1.0	
Ethylbenzene	ND	1.0	
2-Hexanone	ND	5.0	
Isopropylbenzene	ND	1.0	
4-Methyl-2-Pentanone (MIBK)	ND	5.0	
Styrene	ND	1.0	
1,1,2,2-Tetrachloroethane	ND	1.0	
Tetrachloroethene	ND	1.0	
Toluene	ND	1.0	
1,1,2-Trichloroethane	ND	1.0	
1,1,1-Trichloroethane	ND	1.0	
Trichloroethene	ND	1.0	
Vinyl Chloride	ND	1.0	
o-Xylene	ND	1.0	
m,p-Xylene	ND	2.0	
Methyl-tert-butyl ether	2.4	1.0	
Surr Cmpd - % Rec - Limits			

SURROGATE	%RECOVERY	LIMITS
Dibromofluoromethane	102	86 - 118

12/05/05 15:12

TEST RESULTS BY SAMPLE

Sample Description: MW-7

Lab No: 13A

Test Description: GC/MS Volatiles, SW846 8260 Method: SW 846 8260B Test Code: V_RSAA

Collected: 11/02/05 13:10

Category: GW

Toluene-d8	<u>98</u>	<u>88</u>	-	<u>110</u>
4-Bromofluorobenzene	<u>99</u>	<u>86</u>	-	<u>115</u>

Notes and Definitions for this Report:

DATE RUN 11/15/05 13:54:00

ANALYST IM

CONC FACTOR 1

UNITS ug/L

12/05/05 15:12

TEST RESULTS BY SAMPLE

Sample Description: MW-7 MS

Lab No: 13B

Test Description: GC/MS Volatiles, SW846 8260 Method: SW 846 8260B Test Code: V_RSAA

Collected: 11/02/05 13:10

Category: GW

Toluene-d8	<u>100</u>	<u>88</u>	-	<u>110</u>
1 Bromofluorobenzene	<u>98</u>	<u>86</u>	-	<u>115</u>

Notes and Definitions for this Report:

DATE RUN 11/14/05 08:41:00

ANALYST JPG

CONC FACTOR 1

UNITS ug/L- %Recovery

TEST RESULTS BY SAMPLE

Sample Description: MW-7 MSD Lab No: 13C
 Test Description: GC/MS Volatiles, SW846 8260 Method: SW 846 8260B Test Code: V_RSAA
 Collected: 11/02/05 13:10 Category: GW

PARAMETER	RESULT	LIMIT	WEIGHT
Acetone	<u>302- 1182</u>	<u>5.0</u>	---
Benzene	<u>58.5- 116</u>	<u>1.0</u>	---
Bromodichloromethane	<u>53.2- 106</u>	<u>1.0</u>	---
Bromoform	<u>53.9- 108</u>	<u>1.0</u>	---
Bromomethane	<u>69.9- 140</u>	<u>1.0</u>	---
2-Butanone (MEK)	<u>285- 114</u>	<u>5.0</u>	---
Carbon Disulfide	<u>76.2- 152</u>	<u>1.0</u>	---
Carbon Tetrachloride	<u>56.8- 114</u>	<u>1.0</u>	---
Chlorobenzene	<u>54.6- 105</u>	<u>1.0</u>	---
Chloroethane	<u>70.7- 141</u>	<u>1.0</u>	---
Chloroform	<u>55.9- 112</u>	<u>1.0</u>	---
Chloromethane	<u>63.3- 127</u>	<u>1.0</u>	---
Dibromochloromethane	<u>55.0- 110</u>	<u>1.0</u>	---
1,2-Dibromoethane	<u>55.1- 110</u>	<u>1.0</u>	---
1,2-Dibromo-3-Chloropropane	<u>52.7- 105</u>	<u>1.0</u>	---
1,2-Dichloroethane	<u>53.4- 107</u>	<u>1.0</u>	---
1,1-Dichloroethane	<u>57.6- 115</u>	<u>1.0</u>	---
1,1-Dichloroethene	<u>54.3- 109</u>	<u>1.0</u>	---
cis-1,2-Dichloroethene	<u>54.6- 109</u>	<u>1.0</u>	---
trans 1,2-Dichloroethene	<u>55.8- 112</u>	<u>1.0</u>	---
1,2-Dichloroethene, total	<u>ND</u>	<u>1.0</u>	---
Dichloromethane (MeCl2)	<u>54.4- 109</u>	<u>1.0</u>	---
1,2-Dichloropropane	<u>54.5- 109</u>	<u>1.0</u>	---
cis-1,3-Dichloropropene	<u>53.5- 107</u>	<u>1.0</u>	---
trans-1,3-Dichloropropene	<u>57.2- 114</u>	<u>1.0</u>	---
Ethylbenzene	<u>56.7- 113</u>	<u>1.0</u>	---
2-Hexanone	<u>147- 117</u>	<u>5.0</u>	---
Isopropylbenzene	<u>63.2- 126</u>	<u>1.0</u>	---
4-Methyl-2-Pentanone (MIBK)	<u>150- 120</u>	<u>5.0</u>	---
Styrene	<u>63.0- 126</u>	<u>1.0</u>	---
1,1,2,2-Tetrachloroethane	<u>56.5- 113</u>	<u>1.0</u>	---
Tetrachloroethene	<u>56.9- 114</u>	<u>1.0</u>	---
Toluene	<u>58.2- 109</u>	<u>1.0</u>	---
1,1,2-Trichloroethane	<u>54.0- 108</u>	<u>1.0</u>	---
1,1,1-Trichloroethane	<u>55.5- 111</u>	<u>1.0</u>	---
Trichloroethene	<u>54.1- 108</u>	<u>1.0</u>	---
Vinyl Chloride	<u>65.3- 131</u>	<u>1.0</u>	---
o-Xylene	<u>56.3- 113</u>	<u>1.0</u>	---
m,p-Xylene	<u>117- 117</u>	<u>2.0</u>	---
Methyl-tert-butyl ether	<u>51.6- 98</u>	<u>1.0</u>	---
Surr Cmpd - % Rec - Limits	---	---	---

SURROGATE	%RECOVERY	LIMITS
Dibromofluoromethane	<u>102</u>	<u>86 - 118</u>

12/05/05 15:12

TEST RESULTS BY SAMPLE

Sample Description: MW-7 MSD

Lab No: 13C

Test Description: GC/MS Volatiles, SW846 8260 Method: SW 846 8260B Test Code: V_RSAA

Collected: 11/02/05 13:10

Category: GW

Toluene-d8	<u>99</u>	<u>88</u>	-	<u>110</u>
4-Bromofluorobenzene	<u>98</u>	<u>86</u>	-	<u>115</u>

Notes and Definitions for this Report:

DATE RUN 11/14/05 09:14:00

ANALYST JPG

CONC FACTOR 1

UNITS ug/L- *Recovery

TEST RESULTS BY SAMPLE

Sample Description: MW-11 Lab No: 14A
Test Description: GC/MS Volatiles, SW846 8260 Method: SW 846 8260B Test Code: V_RSAA
Collected: 11/02/05 15:25 Category: GW

PARAMETER	RESULT	LIMIT	WEIGHT
Acetone	266	5.0	
Benzene	ND	1.0	
Bromodichloromethane	ND	1.0	
Bromoform	ND	1.0	
Bromomethane	ND	1.0	
2-Butanone (MEK)	ND	5.0	
Carbon Disulfide	ND	1.0	
Carbon Tetrachloride	ND	1.0	
Chlorobenzene	10.2	1.0	
Chloroethane	ND	1.0	
Chloroform	ND	1.0	
Chloromethane	ND	1.0	
Dibromochloromethane	ND	1.0	
1,2-Dibromoethane	ND	1.0	
1,2-Dibromo-3-Chloropropane	ND	1.0	
1,2-Dichloroethane	ND	1.0	
1,1-Dichloroethane	1.8	1.0	
1,1-Dichloroethene	ND	1.0	
cis-1,2-Dichloroethene	1.7	1.0	
trans-1,2-Dichloroethene	1.5	1.0	
1,2-Dichloroethene, total	3.2	1.0	
Dichloromethane (MeCl2)	ND	1.0	
1,2-Dichloropropane	ND	1.0	
cis-1,3-Dichloropropene	ND	1.0	
trans-1,3-Dichloropropene	ND	1.0	
Ethylbenzene	ND	1.0	
2-Hexanone	ND	5.0	
Isopropylbenzene	ND	1.0	
4-Methyl-2-Pentanone (MIBK)	ND	5.0	
Styrene	ND	1.0	
1,1,2,2-Tetrachloroethane	2.1	1.0	
Tetrachloroethene	1.0	1.0	
Toluene	ND	1.0	
1,1,2-Trichloroethane	1.4	1.0	
1,1,1-Trichloroethane	ND	1.0	
Trichloroethene	2.8	1.0	
Vinyl Chloride	0.7 2	1.0	
o-Xylene	ND	1.0	
m,p-Xylene	ND	2.0	
Methyl-tert-butyl ether	0.5 J	1.0	
Surr Compd - % Rec - Limits			

SURROGATE	%RECOVERY	LIMITS
Dibromofluoromethane	98	86 - 118

12/05/05 15:12

TEST RESULTS BY SAMPLE

Sample Description: MW-11

Lab No: 14A

Test Description: GC/MS Volatiles, SWB46 8260 Method: SW 846 8260B Test Code: V_RSAA

Collected: 11/02/05 15:25

Category: GW

Toluene-d8	<u>99</u>	<u>88</u>	-	<u>110</u>
4-Bromofluorobenzene	<u>99</u>	<u>86</u>	-	<u>115</u>

Notes and Definitions for this Report:

DATE RUN 11/14/05 00:20:00

ANALYST JPG

CONC FACTOR 1

UNITS ug/L

TEST RESULTS BY SAMPLE

Sample Description: EQUIPMENT BLANK Lab No: 15A
Test Description: GC/MS Volatiles, SW846 8260 Method: SW 846 8260B Test Code: V_RSAA
Collected: 11/02/05 Category: GW

PARAMETER	RESULT	LIMIT	WEIGHT
Acetone	ND	5.0	---
Benzene	ND	1.0	---
Bromodichloromethane	ND	1.0	---
Bromoform	ND	1.0	---
Bromomethane	ND	1.0	---
2 Butanone (MEK)	ND	5.0	---
Carbon Disulfide	ND	1.0	---
Carbon Tetrachloride	ND	1.0	---
Chlorobenzene	ND	1.0	---
Chloroethane	ND	1.0	---
Chloroform	ND	1.0	---
Chloromethane	ND	1.0	---
Dibromochloromethane	ND	1.0	---
1,2-Dibromoethane	ND	1.0	---
1,2-Dibromo-3-Chloropropane	ND	1.0	---
1,2-Dichloroethane	ND	1.0	---
1,1-Dichloroethane	ND	1.0	---
1,1-Dichloroethene	ND	1.0	---
cis-1,2-Dichloroethene	ND	1.0	---
trans-1,2-Dichloroethene	ND	1.0	---
1,2-Dichloroethene, total	ND	1.0	---
Dichloromethane (MeCl2)	ND	1.0	---
1,2-Dichloropropane	ND	1.0	---
cis-1,3-Dichloropropene	ND	1.0	---
trans-1,3-Dichloropropene	ND	1.0	---
Ethylbenzene	ND	1.0	---
2 Hexanone	ND	5.0	---
Isopropylbenzene	ND	1.0	---
4-Methyl-2-Pentanone (MIBK)	ND	5.0	---
Styrene	ND	1.0	---
1,1,2,2-Tetrachloroethane	ND	1.0	---
Tetrachloroethene	ND	1.0	---
Toluene	ND	1.0	---
1,1,2-Trichloroethane	ND	1.0	---
1,1,1-Trichloroethane	ND	1.0	---
Trichloroethene	ND	1.0	---
Vinyl Chloride	ND	1.0	---
o-Xylene	ND	1.0	---
m,p-Xylene	ND	2.0	---
Methyl-tert-butyl ether	ND	1.0	---
Surr Compd - % Rec - Limits			

SURROGATE	%RECOVERY	LIMITS
Dibromofluoromethane	101	85 - 118

Order # 05-11-037
12/05/05 15:12

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TEST RESULTS BY SAMPLE

Sample Description: EQUIPMENT BLANK Lab No: 15A
Test Description: GC/MS Volatiles, SW846 8260 Method: SW 846 8260B Test Code: V_RSAA
Collected: 11/02/05 Category: GW

Toluene-d8	<u>99</u>	<u>88</u>	-	<u>110</u>
4-Bromofluorobenzene	<u>99</u>	<u>86</u>	-	<u>115</u>

Notes and Definitions for this Report:

DATE RUN 11/13/05 12:42:00
ANALYST JPG
CONC FACTOR 1
UNITS ug/L

TEST RESULTS BY SAMPLE

Sample Description: MW-6 Lab No: 16A
Test Description: GC/MS Volatiles, SW846 8260 Method: SW 846 8260B Test Code: V_RSAA
Collected: 11/02/05 16:36 Category: GW

PARAMETER	RESULT	LIMIT	WEIGHT
Acetone	111	5.0	
Benzene	ND	1.0	
Bromodichloromethane	ND	1.0	
Bromoform	ND	1.0	
Bromomethane	ND	1.0	
2-Butanone (MEK)	ND	5.0	
Carbon Disulfide	ND	1.0	
Carbon Tetrachloride	ND	1.0	
Chlorobenzene	ND	1.0	
Chloroethane	ND	1.0	
Chloroform	ND	1.0	
Chloromethane	ND	1.0	
Dibromochloromethane	ND	1.0	
1,2-Dibromoethane	ND	1.0	
1,2-Dibromo-3-Chloropropane	ND	1.0	
1,2-Dichloroethane	ND	1.0	
1,1-Dichloroethane	ND	1.0	
1,1-Dichloroethene	ND	1.0	
cis-1,2-Dichloroethene	3.0	1.0	
trans-1,2-Dichloroethene	ND	1.0	
1,2-Dichloroethene, total	3.0	1.0	
Dichloromethane (MeCl2)	ND	1.0	
1,2-Dichloropropane	ND	1.0	
cis-1,3-Dichloropropene	ND	1.0	
trans-1,3-Dichloropropene	ND	1.0	
Ethylbenzene	ND	1.0	
2-Hexanone	ND	5.0	
Isopropylbenzene	ND	1.0	
4-Methyl-2-Pentanone (MIBK)	ND	5.0	
Styrene	ND	1.0	
1,1,2,2-Tetrachloroethane	ND	1.0	
Tetrachloroethene	2.6	1.0	
Toluene	ND	1.0	
1,1,2-Trichloroethane	ND	1.0	
1,1,1-Trichloroethane	ND	1.0	
Trichloroethene	26.2	1.0	
Vinyl Chloride	ND	1.0	
o-Xylene	ND	1.0	
m,p-Xylene	ND	2.0	
Methyl-tert-butyl ether	0.6 J	1.0	
Surr Cmpd - % Rec - Limits			

SURROGATE	%RECOVERY	LIMITS
Dibromofluoromethane	98	86 - 118

12/05/05 15:12

TEST RESULTS BY SAMPLE

Sample Description: MW-6

Lab No: 16A

Test Description: GC/MS Volatiles, SW846 8260 Method: SW 846 8260B Test Code: V_RSAA

Collected: 11/02/05 16:36

Category: GW

Toluene-d8	<u>98</u>	<u>88</u>	-	<u>110</u>
4-Bromofluorobenzene	<u>99</u>	<u>86</u>	-	<u>115</u>

Notes and Definitions for this Report:

DATE RUN 11/14/05 00:54:00

ANALYST JPG

CONC FACTOR 1

UNITS ug/L

12/05/05 15:12

TEST RESULTS BY SAMPLE

Sample Description: MW-12R Lab No: 17A
 Test Description: GC/MS Volatiles, SW846 8260 Method: SW 846 8260B Test Code: V_RSAA
 Collected: 11/02/05 17:37 Category: GW

PARAMETER	RESULT	LIMIT	WEIGHT
Acetone	153	5.0	
Benzene	135	1.0	
Bromodichloromethane	ND	1.0	
Bromoform	ND	1.0	
Bromomethane	ND	1.0	
2-Butanone (MEK)	ND	5.0	
Carbon Disulfide	ND	1.0	
Carbon Tetrachloride	ND	1.0	
Chlorobenzene	1170	1.0	
Chloroethane	ND	1.0	
Chloroform	ND	1.0	
Chloromethane	ND	1.0	
Dibromochloromethane	ND	1.0	
1,2-Dibromoethane	ND	1.0	
1,2-Dibromo-3-Chloropropane	ND	1.0	
1,2-Dichloroethane	1.0	1.0	
1,1-Dichloroethane	2.4	1.0	
1,1-Dichloroethene	1.2	1.0	
cis-1,2-Dichloroethene	42.4	1.0	
trans-1,2-Dichloroethene	5.6	1.0	
1,2-Dichloroethene, total	48.0	1.0	
Dichloromethane (MeCl2)	ND	1.0	
1,2-Dichloropropane	ND	1.0	
cis-1,3-Dichloropropene	ND	1.0	
trans-1,3-Dichloropropene	ND	1.0	
Ethylbenzene	39.8	1.0	
2-Hexanone	ND	5.0	
Isopropylbenzene	1.7	1.0	
4-Methyl-2-Pentanone (MIBK)	11.5	5.0	
Styrene	ND	1.0	
1,1,2,2-Tetrachloroethane	2.3	1.0	
Tetrachloroethene	50.0	1.0	
Toluene	1960	1.0	
1,1,2-Trichloroethane	0.5 J	1.0	
1,1,1-Trichloroethane	3.0	1.0	
Trichloroethene	24.8	1.0	
Vinyl Chloride	19.3	1.0	
o-Xylene	7.7	1.0	
m,p-Xylene	71.7	2.0	
Methyl-tert-butyl ether	ND	1.0	
Surr Cmpd - % Rec - Limits			

SURROGATE	%RECOVERY	LIMITS
Dibromofluoromethane	93	86 - 118

12/05/05 15:12

TEST RESULTS BY SAMPLE

Sample Description: MW-12R

Lab No: 17A

Test Description: GC/MS Volatiles, SW846 8260 Method: SW 846 8260B Test Code: V_RSAA

Collected: 11/02/05 17:37

Category: GW

Toluene-d8	<u>97</u>	<u>88</u>	-	<u>110</u>
4-Bromofluorobenzene	<u>90</u>	<u>86</u>	-	<u>115</u>

Notes and Definitions for this Report:

DATE RUN 11/14/05 01:27:00

ANALYST JPG

CONC FACTOR 1

UNITS ug/L

12/05/05 15:12

TEST RESULTS BY SAMPLE

Sample Description: TRIP BLANK

Lab No: 18A

Test Description: GC/MS Volatiles, SW846 8260 Method: SW 846 8260B Test Code: V_RSAA

Collected: 11/02/05

Category: GW

PARAMETER	RESULT	LIMIT	WEIGHT
Acetone	ND	5.0	
Benzene	ND	1.0	
Bromodichloromethane	ND	1.0	
Bromoform	ND	1.0	
Bromomethane	ND	1.0	
2-Butanone (MEK)	ND	5.0	
Carbon Disulfide	ND	1.0	
Carbon Tetrachloride	ND	1.0	
Chlorobenzene	ND	1.0	
Chloroethane	ND	1.0	
Chloroform	ND	1.0	
Chloromethane	ND	1.0	
Dibromochloromethane	ND	1.0	
1,2-Dibromoethane	ND	1.0	
1,2-Dibromo-3-Chloropropane	ND	1.0	
1,2-Dichloroethane	ND	1.0	
1,1-Dichloroethane	ND	1.0	
1,1-Dichloroethene	ND	1.0	
cis-1,2-Dichloroethene	ND	1.0	
trans-1,2-Dichloroethene	ND	1.0	
1,2-Dichloroethene, total	ND	1.0	
Dichloromethane (MeCl2)	ND	1.0	
1,2-Dichloropropane	ND	1.0	
cis-1,3-Dichloropropene	ND	1.0	
trans-1,3-Dichloropropene	ND	1.0	
Ethylbenzene	ND	1.0	
2-Hexanone	ND	5.0	
Isopropylbenzene	ND	1.0	
4-Methyl-2-Pentanone (MIBK)	ND	5.0	
Styrene	ND	1.0	
1,1,2,2-Tetrachloroethane	ND	1.0	
Tetrachloroethene	ND	1.0	
Toluene	ND	1.0	
1,1,2-Trichloroethane	ND	1.0	
1,1,1-Trichloroethane	ND	1.0	
Trichloroethene	ND	1.0	
Vinyl Chloride	ND	1.0	
o-Xylene	ND	1.0	
m,p-Xylene	ND	2.0	
Methyl-tert-butyl ether	ND	1.0	
Surr Compd - % Rec - Limits			

SURROGATE	%RECOVERY	LIMITS
Dibromofluoromethane	101	86 - 118

Order # 05-11-037
12/05/05 15:12

Page 41

TEST RESULTS BY SAMPLE

Sample Description: TRIP BLANK Lab No: 18A
Test Description: GC/MS Volatiles, SW846 8260 Method: SW 846 8260B Test Code: V_RSAA
Collected: 11/02/05 Category: GW

Toluene-d8	<u>97</u>	<u>88</u>	-	<u>110</u>
4-Bromofluorobenzene	<u>97</u>	<u>86</u>	-	<u>115</u>

Notes and Definitions for this Report:

DATE RUN 11/13/05 13:15:00

ANALYST JPG

CONC FACTOR 1

UNITS ug/L

Order # 05-11-037
12/05/05 15:12

TEST METHODOLOGIES

Page 42

Volatile Organics by GC/MS (aqueous)
SW846 Method 8260B (purge & trap, capillary column GC/MS)

CHAIN OF CUSTODY RECORD

PROJECT NAME GERALDAR Etkon MD
 COMPANY Rosecaden Smith & Associates, Inc
 ADDRESS 2222 Western Trails Blvd Ste 300
 PHONE (512) 707-1771 AUSTIN TX 78745



ATLANTIC COAST
 Laboratories, Incorporated

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 ACLI@atlanticcoastlabs.com
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1 OF 2

0511037

SAMPLED BY Charles A. Montano
 SIGNATURE Charles A. Montano
 PRINT NAME

SAMPLE COLLECTION FEE:
 QUOTED PRICE:

ANALYSES

Page 2

SAMPLE ID	DATE	ID	SAMPLE LOCATION	CONTAINER		GRAC	COMP	NO OF CONTAINERS	SAMPLE MATRIX	PRESERVATIVE	SECURITY	ANALYSES	REMARKS
				SIZE	QT								
10/31/05	1342		MW-31	40	G	✓		3	W	HCl	✓		* LIST PREVIOUSLY established list of compounds
10/31/05	1640		MW-29	40	G	✓		3	W	HCl	✓		
11/01/05	0945		MW-27	40	G	✓		3	W	HCl	✓		
11/01/05	1110		MW-39	40	G	✓		3	W	HCl	✓		
11/01/05	1240		MW-24	40	G	✓		3	W	HCl	✓		
11/01/05	1350		MW-25	40	G	✓		3	W	HCl	✓		
11/01/05	1415		11-05 EQUIPMENT BLANK	40	G	✓		2	W	HCl	✓		
11/01/05	1553		MW-28	40	G	✓		3	W	HCl	✓		
11/01/05	1705		MW-26	40	G	✓		3	W	HCl	✓		
11/02/05	0155		MW-8	40	G	✓		3	W	HCl	✓		
11/02/05	1055		S+1	40	G	✓		3	W	HCl	✓		
11/02/05	1240		MW-9	40	G	✓		3	W	HCl	✓		
11/02/05	1340		MW-7	40	G	✓		3	W	HCl	✓		
11/02/05	1314		MW-7MS	40	G	✓		3	W	HCl	✓		
11/02/05	1348		MW-7MSD	40	G	✓		3	W	HCl	✓		

Relinquished by: <u>Charles A. Montano</u>	Date / Time: <u>11/3/05 1242</u>	Received by:	Relinquished by:	Date / Time:	Received by:
Relinquished by:	Date / Time:	Received by:	Relinquished by:	Date / Time: <u>11/3/05 1245</u>	Received for Laboratory by: <u>R. H. H.</u>
Method of Shipment:					Samples Iced <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO Samples Preserved <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO

REPORT

AR103405

CHAIN OF CUSTODY RECORD

PROJECT NAME: HERA CAR GULFON MD
 COMPANY: RSA
 ADDRESS: _____
 PHONE: () SEE 1ST PAGE



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 WWW.ATLANTICCOASTLABS.COM

2 of 2

SAMPLED BY: Charles Monteford
 SIGNATURE: Charles Monteford
 PRINT NAME: _____

SAMPLE COLLECTION FEE: _____
 QUOTED PRICE: _____

ANALYSES
0/5/11

SAMPLE NO.	DATE	TIME	SAMPLE LOCATION	CONTAINER		GRAB	COUP	NO. OF CONTAINERS	SAMPLE MATRIX	PRESERVATIVE	REMARKS
				SIZE	CF						
	11/2/05	1525	MW-11	40	G	✓		3	W	HCl	
	11/2/05	1550H-2-05	EQUIPMENT BLANK	40	G	✓		2	W	HCl	
	11/2/05	1636	MW-6	40	G	✓		3	W	HCl	
	11/2/05	1737	MW-12R	40	G	✓		3	W	HCl	
			LAB PREPARED TRIP BLANK	40	G	✓		2	W	HCl	

Page 3

* previously established list of compounds

* W = water

Relinquished by: <u>Charles Monteford</u>	Date / Time: <u>11/3/05 1242</u>	Received by: _____	Relinquished by: _____	Date / Time: _____	Received by: _____
Relinquished by: _____	Date / Time: _____	Received by: _____	Relinquished by: _____	Date / Time: <u>11/3/05 1245</u>	Received for Laboratory by: <u>RJ</u>

Method of Shipment: _____
 Samples Iced: Y
 Samples Preserved: YES NO

REPORT

AR103406

GLOSSARY OF DATA QUALIFIER CODES (ORGANIC)

- B** = Not detected substantially above the level reported in laboratory or field blanks
- J** = Analyte present. Reported Value may not be accurate or precise
- E** = Analyte present, exceeds calibration range
- U** = Analyte analyzed for, undetected.
- N** = Tentative Identification. Consider present. Special methods may be needed to confirm its presence or absence in future sampling efforts.

Rosengarten, Smith & Associates, Inc.

GE Railcar, Elkton, MD
RSA Project No. 2017-19

Off-Site Investigation Report
April 25, 2006

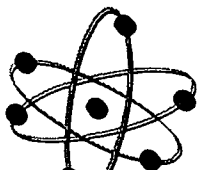
APPENDIX 5
THIRD-PARTY DATA
REVIEW REPORTS

Laboratory Data Review and Validation Report

GE Rail Site, Elkton, MD

Atlantic Coast Laboratories, Inc.

March 2006



Austin analytical

I. Introduction

A review was performed of the analytical data set generated by Atlantic Coast Laboratories (ACL, Newark, Delaware). The data sets applied to groundwater samples collected during October 2005 as part of the Off-Site Groundwater Study from the GE Rail Site at Elkton, MD. The samples and analysis included in the scope of the review is discussed below.

Groundwater Sampling and Analysis

60 groundwater samples collected from monitoring wells were analyzed for volatile organic compounds using USEPA method 8260B:

The groundwater samples were managed and reported via four ACL laboratory work orders:

- Work order 0510476, samples collected 10/27 through 10/30, 2005
- 17 samples, 1 trip blank, 3 equipment blanks
- Work order 0511036, samples collected 10/31 through 11/2, 2005
- 12 samples, 1 trip blank, 1 equipment blank:
- Work order 0510477, samples collected 10/27 through 10/30, 2005
- 16 samples, 1 trip blank, 1 equipment blank
- Work order 0511037, samples collected 10/31 through 11/2, 2005
- 15 samples, 1 trip blank, 2 equipment blanks

Each of the work orders is discussed in detail in its own section. A cross-reference table of the sample identification and laboratory identification may be found in each individual work order section.

The resulting analytical data were compiled by the laboratory into report packages, according to the work orders cited above. These data were reviewed using the *National Functional Guidelines for Organic Data Review, Region III Modifications to National Functional Guidelines for Organic Data Review (September 1994)*, and *USEPA SW-846, Methods for Evaluating Solid Waste* as guidance for the review and evaluation process. The laboratory data packages were reviewed for technical accuracy, method compliance, and data package completeness.

Project-specific precision and accuracy requirements, completeness requirements, or other general data quality objectives were not available at the time of the data review. Hence, the data were reviewed against either the USEPA Contract Laboratory Program (CLP) requirements or against the general guidance provided by SW-846. For the VOC measurements, target compound lists and detection limits for VOCs were specified in the project planning documents.

This report summarizes the observations and findings as result of the review. The report is organized with general, broadly applicable observations and findings discussed first followed by more detailed findings and observations specific to each the study. An overall assessment of the data is provided at the end of this document.



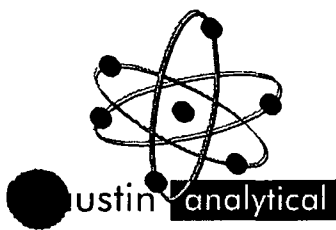
austin analytical

The following data qualifiers, based on EPA Region III CLP guidance, are used in this review:

- J = Analyte present. Reported value may not be accurate or precise.
- L = Analyte present. Reported value may be biased low. Actual value is expected to be higher.
- R = Unreliable result. Analyte may or may not be present in the sample. Supporting data are necessary to confirm result.
- UJ = Not detected, quantification limit may be inaccurate or imprecise.
- UL = Not detected, quantification limit is probably higher.
- B = Not detected substantially above the level reported in laboratory or field blanks.

The following abbreviations are used throughout this report:

8260B	USEPA method 8260B
LCS	laboratory control standard
MS/MSD	matrix spike/spike duplicate
CCC	continuing calibration check compounds
SPCC	system performance check compounds
CCV	continuing calibration verification
VOC	volatile organic compound
CLP	contract laboratory program
RSD	relative standard deviation
BFB	bromofluorobenzene



II. General Observations

A. Documentation

In general, the data reports for the samples were adequately documented. The data packages for VOC followed standard CLP formats. It was possible to verify measurement results from the calibration and instrument responses for all the VOC measurements. Raw data files were provided.

Chain-of-custody records are included in the data packages. Internal laboratory custody documents are not included. The custody records indicate samples were received on ice and have an recorded temperature. No evidence was found that the pH of the preserved groundwater samples was verified. The acceptable condition of samples was stated in the analytical report case narratives. There is no evidence that there was a problem with preservation.

B. Method Citations

Specific analytical methods were not indicated on the chain-of-custody forms or in the work plans. The method cited in the "Test Methodologies" listing at the end of the "Report of Analysis", and referenced in the executive summary, is:

VOC – SW-846 Method 8260B

C. Method Compliance

The measurement data are generally compliant with the cited methods. No major concerns were identified.

D. Technical Quality

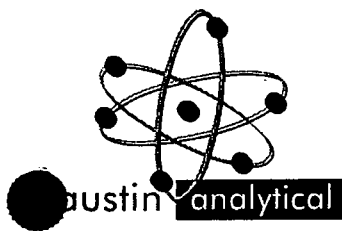
The data provided in these reports are generally of sufficient quality to adequately support the investigation. Recommendations for qualifying data, based on Region III guidelines, are noted in this review.

The qualification of data is based on requirements for elements such as sample preservation, holding times, instrument tuning and calibration, response factors, retention times, spike recoveries, and blanks. Data qualifiers can add value to the decision-making that is based on the data by providing some information about the nature of the uncertainty in the data.

For this program, all of the data are useable, as qualified.

E. Technical Accuracy

Quality control indicators suggest that the measurement data meet the method expectations for accuracy and precision. Compound identifications are reliable. No significant contamination concerns were identified.

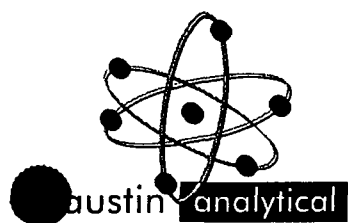


There are no quality control limits for the entire compound list presented by the laboratory, and thus it is not possible to compare recovery data, other than for the CCC, to any laboratory-generated control limits. In the absence of such limits this reviewer has used the general SW846 CCC criteria of 70-130% of true value for the purposes of data review; thus, when discussion indicates that a compound recovery is high this must be tempered with the possibility that the recovery meets internal laboratory quality control criteria. In light of this the following observations are presented:

Carbon tetrachloride, in general, appears to be biased high throughout the project, possibly indicating a problem with calibration; however, the bias appears to be consistent and in the opinion of this reviewer does not materially affect the data.

The recoveries of acetone and carbon disulfide appear to be more variable than the recoveries for most other compounds; however, the noted variability does not materially affect the data. This is not unusual for analysis of these compounds using the stated method.

In general, the data appear to be of good quality, and may be used for the intent of the project with the laboratory's qualifications as indicated in this report.



III. Work order 0510476 - Specific Items and Data Qualifiers

Samples in this work order, and laboratory identification

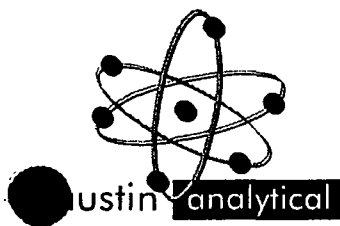
<u>Lab ID</u>	<u>Sample description</u>
0510476-01A	OSMW-15
0510476-02A	OSMW-6
0510476-03A	OSMW-4
0510476-04A	OSMW-5
0510476-05A	Equipment blank
0510476-06A	OSMW-13
0510476-07A	Equipment blank
0510476-08A	MW-22
0510476-09A	MW-23
0510476-10A	MW-44
0510476-11A	MW-42
0510476-12A	MW-41
0510476-12B	MW-41 MS
0510476-12C	MW-41 MSD
0510476-13A	MW-40
0510476-14A	MW-38
0510476-15A	MW-33
0510476-16A	MW-35
0510476-17A	MW-36
0510476-18A	MW-34
0510476-19A	MW-37
0510476-20A	Equipment blank
0510476-21A	Trip blank

Summary of findings for this work order

None of the CCC listed in 8260B failed calibration verification, and thus the method criteria were met. In one CCV carbon tetrachloride failed the Region III general guidance of $\pm 25\%$ of true value for all compounds; however, there were no positive results reported for carbon tetrachloride in this work order.

None of the CCC failed 8260B criteria in the LCS. Carbon tetrachloride was biased high in both LCS samples; however, in the absence of reportable concentrations of carbon tetrachloride for this work order no further qualification of data is indicated.

None of the CCC failed 8260B criteria in the MS/MSD. In one of the MS/MSD acetone recovery was quite high; however, this is probably attributable to the high concentration of acetone in the spiked



sample. Additionally, carbon disulfide and carbon tetrachloride recoveries were high, but do not materially affect the data quality.

Volatile Organic Compounds (VOCs)

Samples were analyzed according to SW-846 Method 8260B.

Holding Times

Case narratives from the laboratory reports state that that the samples were received, preserved and cooled. The chain-of-custody indicates the temperature of the samples upon receipt.

All samples were analyzed within the 14-day holding time, including re-analyses based on necessary dilutions or carryover concerns.

GC/MS Instrument Performance Check

Analysis of GC/MS instrument performance checks were performed at the beginning of each 12-hour period during which samples were analyzed to ensure mass resolution and identification. The results of these tuning checks, based on ion abundance criteria for BFB, are summarized below.

All BFB tuning checks meet the Method 8260B BFB tuning criteria.

Initial Calibration

The RSD was less than 15% for all target compounds, with exceptions noted in the executive summary. As an alternative action, the laboratory developed a second order regression equation for calibration of these compounds, as allowed in SW-846. Minimum response factors for system performance check compounds were within specifications.

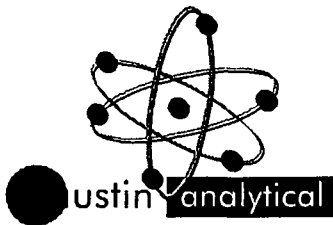
The lowest concentration calibration standard (i.e. low point of the curve) used in the calibration curve is 1.0 µg/L, which corresponds to the lowest reporting value. All reported values below 1.0 µg/L were qualified with a "J" flag to indicate an estimated value. All data above the reporting limit were rounded to 3 significant figures.

Continuing Calibration Verification (CCV)

Continuing calibration verification standards were analyzed at the beginning of each 12-hour period following the initial calibrations. SW-846 specifies minimum response factors for the five SPCC and the percent difference for six CCC.

The Method SW8260B acceptance criteria for CCC and SPCC were met for all continuing calibration checks.

The percent difference between the initial and continuing calibrations was outside the Region III $\pm 25\%$ guideline for the compounds noted below.



- CCV – Nov. 8, 2005 7:18 (File ID: NOV0802.D)
Carbon tetrachloride (+53.3%)

It should be noted that no positive carbon tetrachloride results were reported for this work order.

Trip Blanks and Field Blanks

No target compounds were detected in any of the equipment blanks or in the trip blank.

Laboratory Method Blanks

No target compounds were detected in any of the laboratory method blanks associated with the investigative samples. Hence, no qualification of sample results is indicated.

Surrogate Spikes

Surrogate recoveries were within acceptance limits in all samples and/or re-analyses. No qualification of the data is required as a result of surrogate spike recoveries.

Laboratory Control Standard

Recoveries were within the acceptance limits for the five matrix spike compounds specified in Method 8260B. The general SW846 criteria for laboratory control standards, in the absence of laboratory-generated control criteria, are the same as for matrix spike/spike duplicate recoveries, which is in general 70-130 percent. The following compounds fell outside of this general guidance range:

- LCS – Nov. 8, 2005 07:51 (File ID: NOV0803.D)
Carbon tetrachloride (141%)
- LCS – Nov. 8, 2005 19:56 (File ID: NOV0825.D)
Carbon tetrachloride (145%)

No carbon tetrachloride was reported above reporting limits for this work order, and no further flagging of data is indicated.

Matrix Spike/Matrix Spike Duplicate

Two matrix spike duplicate pairs from the work order, MW-5 and MW-41, were analyzed. Recoveries were within the laboratory acceptance limits for the five matrix spike compounds specified in Method 8260B. In addition to the Method 8260B matrix spike compound list, all target compounds were evaluated for spike recovery in each spiked sample. All recoveries were within 70-130 percent, except as shown in the table below.

Matrix Spike Recoveries >130%



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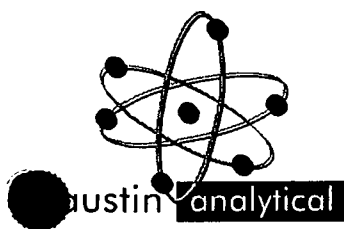
Spiked Sample ID	Analyte
MW-5	Carbon disulfide
MW-41	Acetone Carbon tetrachloride

Analysis and recovery of carbon disulfide is notoriously difficult, and the recovery of carbon disulfide from MW-5 was barely over 130%; thus, in this reviewer's opinion the data should not be qualified, especially in light of the excellent recovery of carbon disulfide from the LCS, the CCV and the MS/MSD for MW-41.

The high acetone recovery for MW-41 is probably attributable to the high sample concentration (over twice the spike amount), and thus should not be considered to be representative of the analytical system as a whole, especially given the acceptable recoveries obtained for acetone from the MW-5 spikes. The carbon tetrachloride analysis appears to be problematic and biased high for this work order; however, as previously noted no positive results for carbon tetrachloride were obtained for any samples, and thus no data needs to be flagged.

Internal Standards

All internal standard areas and retention times were within method criteria.



IV. Work order 0511036 - Specific Items and Data Qualifiers

Samples in this work order, and laboratory identification

<u>Lab ID</u>	<u>Sample description</u>
---------------	---------------------------

511036-01A	
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Trip blank	
------------	--

511036-02A	
------------	--

MW-14	
-------	--

511036-03A	
------------	--

S-5	
-----	--

511036-04A	
------------	--

Equipment Blank	
-----------------	--

511036-05A	
------------	--

MW-32	
-------	--

511036-05B	
------------	--

MW-32MS	
---------	--

511036-05C	
------------	--

MW-32MSD	
----------	--

511036-06A	
------------	--

MW-18	
-------	--

511036-07A	
------------	--

MW-30	
-------	--

511036-08A	
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MW-4	
------	--

511036-09A	
------------	--

MW-13	
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511036-10A	
------------	--

MW-5	
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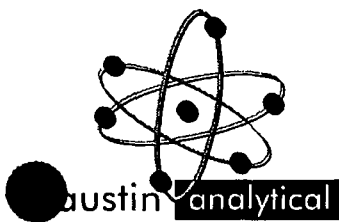
511036-11A	
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S-4	
-----	--

511036-12A	
------------	--

S-3	
-----	--

511036-13A	
------------	--



S-2

511036-14A

MW-10

511036-14B

MW-10MS

511036-14C

MW-10MSD

Summary of findings for this work order

None of the CCC listed in 8260B failed calibration verification, and thus the method criteria were met. Bromomethane, chloroethane and methyl t-butyl ether failed the Region III general guidance of $\pm 25\%$ of true value for all compounds; however, there were no positive results reported for these compounds in this work order.

None of the CCC failed 8260B criteria in the LCS. Carbon disulfide and methyl t-butyl ether failed the general criteria of 70-130% of true value; however, this does not materially affect the data as no positive results were reported for these compounds in this work order.

One of the MS/MSD has slightly high recovery ($>130\%$) for bromomethane and carbon disulfide. This has no impact of the data quality. The other MS/MSD for this work order is problematic; compound recovery is poor but reproducible, including recovery of one of the CCC. Additional samples were spiked and recovery was found to be acceptable; however, since the samples were not part of this work order the data is irrelevant to the project. The data from the sample and MS/MSD are flagged by this reviewer as suspect due to matrix interference. No other flags based on MS/MSD are recommended for this work order.

Volatile Organic Compounds (VOCs)

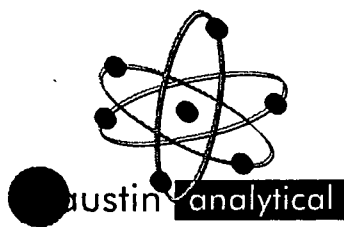
Samples were analyzed according to SW-846 Method 8260B.

Holding Times

Case narratives from the laboratory reports state that that the samples were received, preserved and cooled. The chain-of-custody indicates the temperature of the samples upon receipt.

All samples were analyzed within the 14-day holding time, including re-analyses based on necessary dilutions or carryover concerns.

The executive summary indicates that MW-32 (plus MS/MSD) was received separately from the remainder of the samples. This is not indicated on the chain of custody, nor is a separate chain of custody



provided. In the absence of further documentation this reviewer is unable to assess the validity of the custodial process for this sample.

GC/MS Instrument Performance Check

Analysis of GC/MS instrument performance checks were performed at the beginning of each 12-hour period during which samples were analyzed to ensure mass resolution and identification. The results of these tuning checks, based on ion abundance criteria for bromofluorobenzene (BFB), are summarized below.

All BFB tuning checks meet the Method 8260B BFB tuning criteria.

Initial Calibration

The RSD was less than 15% for all target compounds, except for 2-butanone, 4-methyl-2-pentanone and 2-hexanone. As an alternative action, the laboratory used a linear regression curve for calibration of these compounds, as allowed in Method 8000 of SW-846. Minimum response factors for system performance check compounds were within specifications.

The lowest concentration calibration standard (i.e. low point of the curve) used in the calibration curve was 1.0 µg/L, which corresponds to the lowest reporting value. All reported values below 1.0 µg/L were qualified with a "J" flag to indicate an estimated value. All data above the reporting limit were rounded to 3 significant figures.

Continuing Calibration Verification (CCV)

Continuing calibration verification standards were analyzed at the beginning of each 12-hour period following the initial calibrations. SW-846 specifies minimum response factors for the five SPCC and the percent difference for the six CCC.

The Method SW8260B acceptance criteria for the CCC and the SPCC were met for all continuing calibration.

The percent difference between the initial and continuing calibrations was outside the Region III ±25% guideline for the compounds noted below.

➤ CCV – Nov. 12, 2005 13:08 (File ID: NOV1209.D)

Samples:

Bromomethane +33.2%)

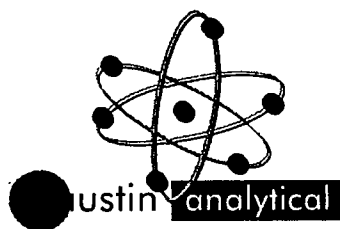
Methyl-t-butyl ether (-36.9%)

➤ CCV – Nov. 13, 2005 09:54 (File ID: NOV1302.D)

Bromomethane +35.6%)

Chloroethane (+27.0%)

➤ CCV – Nov. 13, 2005 09:54 (File ID: NOV1302.D)



Chloroethane (-30.5%)

Trip Blanks and Field Blanks

No target compounds above reporting limits were detected in the equipment blank or the trip blank.

Laboratory Method Blanks

No target compounds were detected in any of the laboratory method blanks associated with the investigative samples. Hence, no qualification of sample results is indicated.

Surrogate Spikes

Surrogate recoveries were within acceptance limits in all samples and/or re-analyses. No qualification of the data is required as a result of surrogate spike recoveries.

Laboratory Control Standard

Recoveries were within the acceptance limits for the five matrix spike compounds specified in Method 8260B. The general SW-846 criteria for laboratory control standards, in the absence of laboratory-generated control criteria, are the same as for matrix spike/spike duplicate recoveries, which is in general 70-130 percent. The following compounds fell outside of this general guidance range:

- LCS – Nov. 12, 2005 13:41 (File ID: NOV1210.D)
Methyl t-butyl ether (63%)
Carbon disulfide (148%)
- LCS – Nov. 12, 2005 22:00 (File ID: NOV1225.D)
Carbon disulfide (138%)
- LCS – Nov. 13, 2005 10:28 (File ID: NOV1303.D)
Carbon disulfide (142%)

Matrix Spike/Matrix Spike Duplicate

Two matrix spike duplicate pairs from the work order, MW-32 and MW-10, were analyzed. Recoveries were within the laboratory acceptance limits for the five matrix spike compounds specified in Method 8260B for MW-10; however, for MW-32 trichloroethene failed to meet published limits. In addition to the 8260B matrix spike compound list, all target compounds were evaluated for spike recovery in each spiked sample. All recoveries were within 70-130 percent, except as shown in the table below.

0511036 Matrix Spike Recoveries either <70 % or >130%

Spiked Sample ID	Analyte
MW-10	Bromomethane Carbon disulfide



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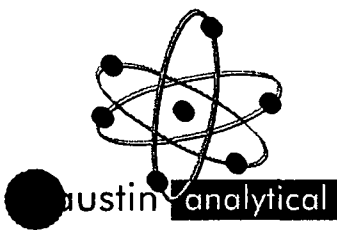
MW-32	Acetone Carbon disulfide trans-1,2-dichloroethene cis-1,2-dichloroethene Trichloroethene 1,1,2,2-tetrachloroethane
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The slightly high bromomethane and carbon disulfide recoveries for MW-10 do not affect the data quality, and no adjustment to data is recommended based on the matrix recoveries for MW-10.

MW-32 is more problematic. The executive summary discusses the poor recovery, and the verification of the poor recovery in a replicate analysis. Since most of the compounds that exhibit poor recovery are compounds that are found in the sample, and since the recoveries are extremely low, but reproducible, this probably should be considered to be matrix interference. In this case, I recommend that the data for this sample be flagged as suspect and be considered as a minimum estimate of concentration. Since the LCS, CCV and other matrix spike data all confirm the proper operation of the analytical system my recommendation is to not flag other data as suspect or estimated.

Internal Standards

All internal standard areas and retention times were within method criteria.



V. Work order 0510477 - Specific Items and Data Qualifiers

Samples in this work order, and laboratory identification

Lab ID Sample description

0510477-01A
Trip Blank

0510477-02A
OSMW-14

0510477-03A
OSMW-12

0510477-04A
OSMW-11

0510477-05A
OSMW-3

0510477-06A
OSMW-2

0510477-07A
MW-17

0510477-08A
MW-2

0510477-09A
S-6

0510477-10A
MW-43

0510477-11A
MW-3

0510477-12A
MW-1

0510477-13A
MW-20

0510477-14A
MW-21

0510477-15A



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MW-19

0510477-16A

MW-16

0510477-17A

MW-15

0510477-18A

Equipment blank

Summary of findings for this work order

None of the CCC listed in 8260B failed calibration verification, and thus the method criteria were met. Bromomethane, carbon tetrachloride and 1,1-dichloroethane failed the Region III general guidance of $\pm 25\%$ of true value for all compounds. No data flagging other than that already present in the report is recommended.

None of the CCC failed 8260B criteria in the LCS. Carbon tetrachloride failed the general criteria of 70-130% of true value; however, this does not materially affect the data as no positive results were reported for these compounds in this work order.

One of the MS/MSD has slightly high recovery ($>130\%$) for bromomethane and carbon disulfide. This has no impact of the data quality. The other MS/MSD for this work order is problematic; compound recovery is poor but reproducible, including recovery of one of the CCC. Additional samples were spiked and recovery was found to be acceptable; however, since the samples were not part of this work order the data is irrelevant to the project. The data from the sample and MS/MSD are flagged by this reviewer as suspect due to matrix interference. No other flags based on MS/MSD are recommended for this work order.

Volatile Organic Compounds (VOCs)

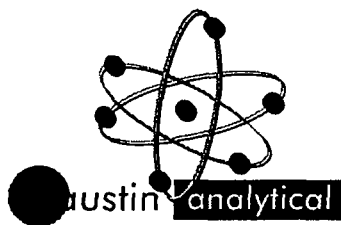
Samples were analyzed according to SW-846 Method 8260B.

Holding Times

Case narratives from the laboratory reports state that that the samples were received, preserved and cooled. The chain-of-custody indicates the temperature of the samples upon receipt.

All samples were analyzed within the 14-day holding time, including re-analyses based on necessary dilutions or carryover concerns.

GC/MS Instrument Performance Check



Analysis of GC/MS instrument performance checks were performed at the beginning of each 12-hour period during which samples were analyzed to ensure mass resolution and identification. The results of these tuning checks, based on ion abundance criteria for bromofluorobenzene (BFB), are summarized below.

All BFB tuning checks meet the Method 8260B BFB tuning criteria.

Initial Calibration

The RSD was less than 15% for all target compounds, except for bromomethane and 1,2-dibromo-3-chloropropane. As an alternative action, the laboratory used a linear regression curve for calibration of these compounds, as allowed in Method 8000 of SW-846. Minimum response factors for system performance check compounds were within specifications.

The lowest concentration calibration standard (i.e. low point of the curve) used in the calibration curve was 1.0 µg/L, which corresponds to the lowest reporting value. All reported values below 1.0 µg/L were qualified with a "J" flag to indicate an estimated value. All data above the reporting limit were rounded to 3 significant figures.

Continuing Calibration Verification (CCV)

Continuing calibration verification standards were analyzed at the beginning of each 12-hour period following the initial calibrations. SW-846 specifies minimum response factors for five system performance check compounds (SPCCs) and the percent difference for six calibration check compounds (CCCs).

The Method SW8260B acceptance criteria for calibration check compounds (CCCs) and system performance check compounds (SPCCs) were met for all continuing calibration.

The percent difference between the initial and continuing calibrations was outside the Region III ±25% guideline for the compounds noted below.

- CCV – Nov. 5, 2005 13:55 (File ID: NOV0511.D)
Bromomethane (+25.3%)
- CCV – Nov. 8, 2005 07:18 (File ID: NOV0802.D)
Carbon tetrachloride (+53.5%)
- CCV – Nov. 9, 2005 19:49 (File ID: NOV0924.D)
Carbon tetrachloride (+44.4%)
1,1-dichloroethane (-28.5%)
- CCV – Nov. 8, 2005 19:23 (File ID: NOV0824.D)
Carbon tetrachloride (+46.9%)



Carbon tetrachloride has been previously identified as a calibration and recovery problem for the project as a whole. In the absence of reportable concentrations of the compounds failing Region III calibration criteria no flagging of data is necessary. In the case of 1,1-dichloroethane, the data have already been flagged by the laboratory as estimated concentrations.

Trip Blanks and Field Blanks

No target compounds above reporting limits were detected in the equipment blank or the trip blank.

Laboratory Method Blanks

No target compounds were detected in any of the laboratory method blanks associated with the investigative samples. Hence, no qualification of sample results is indicated.

Surrogate Spikes

Surrogate recoveries were within acceptance limits in all samples and/or re-analyses. No qualification of the data is required as a result of surrogate spike recoveries.

Laboratory Control Standard

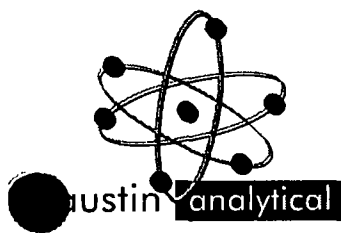
Recoveries were within the acceptance limits for the five matrix spike compounds specified in Method 8260B. The general SW-846 criteria for laboratory control standards, in the absence of laboratory-generated control criteria, are the same as for matrix spike/spike duplicate recoveries, which is in general 70-130 percent. The following compounds fell outside of this general guidance range:

- LCS – Nov. 8, 2005 07:51 (File ID: NOV0803.D)
Carbon tetrachloride (141%)
- LCS – Nov. 8, 2005 22:00 (File ID: NOV0825.D)
Carbon tetrachloride (145%)
- LCS – Nov. 93, 2005 20:22 (File ID: NOV0925.D)
Carbon tetrachloride (136%)

Carbon tetrachloride has previously been identified as problematically high for the entire project. In the absence of reportable concentrations of carbon tetrachloride, no further qualification of data is justified based on the LCS recoveries.

Matrix Spike/Matrix Spike Duplicate

Two matrix spike duplicate pairs from the work order, OSMW-12 and MW-43, were analyzed. Recoveries were within the laboratory acceptance limits for the five matrix spike compounds specified in Method 8260B for both samples. In addition to the 8260B matrix spike compound list, all target compounds were evaluated for spike recovery in each spiked sample. All recoveries were within 70-130 percent, except as shown in the table below.



0511036 Matrix Spike Recoveries either <70 % or >130%

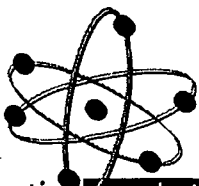
Spiked Sample ID	Analyte
OSMW-12	Carbon disulfide
MW-43	Acetone Carbon tetrachloride 1,1-dichloroethane

In MW-43 only the MS was outside of 70-130 for 1,1-dichloroethane, and it was 68%. No further flagging of data is necessary. Acetone and carbon tetrachloride have been previously identified as problematically high or variable for the project as a whole. The acetone MS/MSD recoveries do not justify further qualification of data, and no carbon tetrachloride is reported above reporting limits for this work order.

No additionally flagging of data is recommended based on the MS/MSD recoveries.

Internal Standards

All internal standard areas and retention times were within method criteria.



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VI. Work order 0511037 - Specific Items and Data Qualifiers

Samples in this work order, and laboratory identification

Lab ID Sample description

0511037-01A
MW-31

0511037-02A
MW-29

0511037-03A
MW-27

0511037-04A
MW-39

0511037-05A
MW-24

0511037-06A
MW-25

0511037-07A
Equipment blank

0511037-08A
MW-28

0511037-09A
MW-26

0511037-10A
MW-8

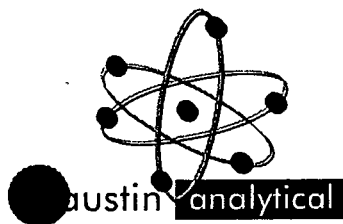
0511037-11A
S-1

0511037-12A
MW-9

0511037-13A
MW-7

0511037-13B
MW-7MS

0511037-13C



MW-7MSD

0511037-14A
MW-11

0511037-15A
Equipment blank

0511037-16A
MW-6

0511037-17A
MW-12R

0511037-18A
Trip blank

Summary of findings for this work order

None of the CCC listed in 8260B failed calibration verification, and thus the method criteria were met. Bromomethane, chloroethane and methyl t-butyl ether failed the Region III general guidance of $\pm 25\%$ of true value for all compounds. No data flagging other than that already present in the report is recommended.

None of the CCC failed 8260B criteria in the LCS. Methyl t-butyl ether and carbon disulfide failed the general criteria of 70-130% of true value; however, this does not materially affect the data as no positive results were reported for these compounds in this work order.

The MS/MSD exhibits high recovery ($>130\%$) for vinyl chloride, bromomethane, chloroethane and carbon disulfide. The vinyl chloride recovery is within internal laboratory control limits, and there are no positive results reported above reporting limits for the other compounds. This has no impact of the data quality.. No other flags based on MS/MSD are recommended for this work order.

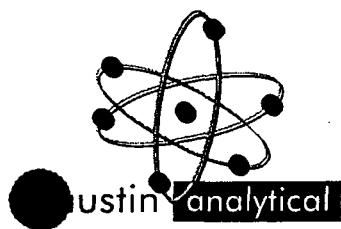
Volatile Organic Compounds (VOCs)

Samples were analyzed according to SW-846 Method 8260B.

Holding Times

Case narratives from the laboratory reports state that that the samples were received, preserved and cooled. The chain-of-custody indicates the temperature of the samples upon receipt.

All samples were analyzed within the 14-day holding time, including re-analyses based on necessary dilutions or carryover concerns.



GC/MS Instrument Performance Check

Analysis of GC/MS instrument performance checks were performed at the beginning of each 12-hour period during which samples were analyzed to ensure mass resolution and identification. The results of these tuning checks, based on ion abundance criteria for BFB, are summarized below.

All BFB tuning checks meet the Method 8260B BFB tuning criteria.

Initial Calibration

The RSD was less than 15% for all target compounds, except for 2-butanone, 4-methyl-2-pentanone and 2-hexanone. As an alternative action, the laboratory used a linear regression curve for calibration of these compounds, as allowed in Method 8000 of SW-846. Minimum response factors for system performance check compounds were within specifications.

The lowest concentration calibration standard (i.e. low point of the curve) used in the calibration curve was 1.0 µg/L, which corresponds to the lowest reporting value. All reported values below 1.0 µg/L were qualified with a "J" flag to indicate an estimated value. All data above the reporting limit were rounded to 3 significant figures.

Continuing Calibration Verification (CCV)

Continuing calibration verification standards were analyzed at the beginning of each 12-hour period following the initial calibrations. SW-846 specifies minimum response factors for the five SPCC and the percent difference for the six CCC.

The Method SW8260B acceptance criteria for CCC and the SPCC were met for all continuing calibration.

The percent difference between the initial and continuing calibrations was outside the Region III ±25% guideline for the compounds noted below.

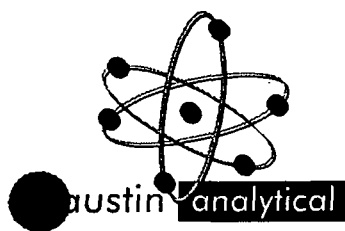
- CCV – Nov. 12, 2005 13:08 (File ID: NOV1209.D)
 - Bromomethane (+33.2%)
 - Methyl t-Butyl Ether (-36.9%)

- CCV – Nov. 13, 2005 09:54 (File ID: NOV1302.D)
 - Bromomethane (+35.6%)
 - Chloroethane (+27.0%)

Neither bromomethane, methyl t-butyl ether nor chloroethane are present at reportable concentrations in any of the samples in this work order. No further qualification of data is indicated.

Trip Blanks and Field Blanks

No target compounds above reporting limits were detected in the equipment blank or the trip blank.



Laboratory Method Blanks

No target compounds were detected in any of the laboratory method blanks associated with the investigative samples. Hence, no qualification of sample results is indicated.

Surrogate Spikes

Surrogate recoveries were within acceptance limits in all samples and/or re-analyses. No qualification of the data is required as a result of surrogate spike recoveries.

Laboratory Control Standard

Recoveries were within the acceptance limits for the five matrix spike compounds specified in Method 8260B. The general SW-846 criteria for laboratory control standards, in the absence of laboratory-generated control criteria, are the same as for matrix spike/spike duplicate recoveries, which is in general 70-130 percent. The following compounds fell outside of this general guidance range:

- LCS – Nov. 12, 2005 13:41 (File ID: NOV1210.D)
Methyl t-Butyl Ether (63%)
Carbon disulfide (148%)
- LCS – Nov. 12, 2005 22:00 (File ID: NOV1225.D)
Carbon disulfide (138%)
- LCS – Nov. 13, 2005 12:28 (File ID: NOV1303.D)
Carbon disulfide (142%)
- LCS – Nov. 13, 2005 22:40 (File ID: NOV1325.D)
Carbon disulfide (134%)

Carbon disulfide has previously been identified as highly variable for the entire project. In the absence of reportable concentrations of carbon disulfide and methyl t-butyl ether, no further qualification of data is justified based on the LCS recoveries.

Matrix Spike/Matrix Spike Duplicate

One matrix spike duplicate pairs from the work order, MW-7, was analyzed. Recoveries were within the laboratory acceptance limits for the five matrix spike compounds specified in Method 8260B. In addition to the 8260B matrix spike compound list, all target compounds were evaluated for spike recovery in each spiked sample. All recoveries were within 70-130 percent, except as shown in the table below.

0511037 Matrix Spike Recoveries >130%

Spiked Sample ID	Analyte
MW-7	Vinyl chloride



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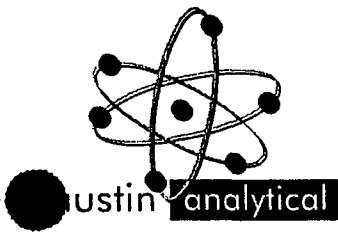
	Bromomethane Chloroethane Carbon disulfide
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The vinyl chloride meets laboratory internal acceptance limits. None of the compounds have positive data reported above the reporting limits for this work order.

No additionally flagging of data is recommended based on the MS/MSD recoveries.

Internal Standards

All internal standard areas and retention times were within method criteria.



VII. Summary and General Data Quality Assessment

Review of the data packages indicates generally accurate and reliable measurement data for which supporting data was supplied. The qualifiers associated with the measurement results are not atypical of these types of measurement programs. No severe deficiencies were evidenced in the data packages.

Review of the raw data found the measurement results to be reliably reported in the "Report of Analysis."

Overall, the data are considered useable for their intended purposes, with consideration of the data qualifiers in evaluating the risk of making incorrect decisions based on the measurement data.