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November 1, 2004

FEDERAL EXPRESS

Vogtle Electric Generating Plant Landfill #2 and #3  
Solid Waste Permit No. 017-006D(L)(I)  
Solid Waste Permit No. 017-007D(L)(I)

Mr. Harold C. Gillespie  
Unit Coordinator - Industrial Solid Waste Unit  
Georgia Environmental Protection Division  
4244 International Parkway, Suite 104  
Atlanta, GA 30354

Dear Mr. Gillespie:

Pursuant to EPD Solid Waste Rule 391-3-4-.14 and in accordance with the approved Plant Vogtle Landfill #2 and #3 Groundwater Monitoring Plans, Southern Nuclear is submitting the attached semi-annual groundwater monitoring report which was prepared for Southern Nuclear by the Dextra Group. This report presents the analytical results for the semi-annual groundwater samples taken in June 2004 at Landfill #2 and Landfill #3 and the assessment monitoring at Landfill #3 wells GWA-15/MW-15, GWC-13/MW-13, and GWC-14/MW-14 which was conducted concurrently with the regular semi-annual monitoring. In addition, due to the detection of mercury in previous sampling events, all monitoring wells at Landfill #3 were tested for mercury.

As discussed in Sections 5 and 6 of the attached report, at Landfill #3 there was a statistically significant increase over background for barium in wells GWC-13/MW-13 and GWC-14/MW-14; trichlorofluoromethane in wells GWC-13/MW-13 and GWA-7; and 1,1-dichloroethane and cis-1,2-dichloroethane in well GWC-14/MW-14. There was a detection of mercury, an Appendix II parameter, and a detection of trichloroethene above the MCL in samples from well GWA-7. Statistical analyses were not performed for mercury or trichloroethene because there are fewer than four positive results. There was no statistically significant increase over background for any parameters detected in the compliance wells at Landfill #2. A copy of this letter and the attached report will be placed in the operating record within 14 days to serve as the notice to the operating record in accordance with EPD Rules.

The next scheduled semi-annual sampling event is December 2004. In addition to the regular monitoring for Appendix I parameters, all wells will be analyzed for mercury based on the detection of mercury during this sampling event and in previous events. Also in December, assessment monitoring for Appendix II parameters will begin for well GWA-7 due to the redesignation of this well as a compliance well and the detection of a statistically significant increase over background.

EV-04-2077  
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Georgia Environmental Protection Division  
Harold Gillespie

If you have any questions, please contact Rachel Bauman at (205) 992-7025.

Sincerely,

A handwritten signature in black ink, appearing to read "A. Harris". The signature is fluid and cursive, with the first name "A." and the last name "Harris" clearly distinguishable.

A. Harris  
Manager - Engineering Services

A.H. /RGB:ahl

cc: Mr. Michael Kemp (w/o)  
Mr. Earl Hinkle (w/o)

Attachment

EV-04-2077

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Georgia Environmental Protection Division

Mr. Harold C. Gillespie

bc: P. D. Rushton (w/o)  
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**GROUNDWATER MONITORING REPORT  
PLANT VOGTLE LANDFILLS #2 AND #3  
SOLID WASTE PERMIT NOS. 017-006D(L)(I)  
AND 017-007D(L)(I)  
BURKE COUNTY, GEORGIA  
OCTOBER 2004**

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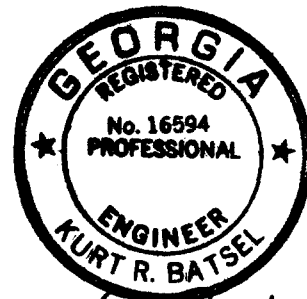
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*KRT Batsel*  
10/19/04

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## 1 – Introduction

This report presents the results of groundwater sampling conducted in June 2004 at two private solid waste landfills (Landfill #2 and Landfill #3) operated by Southern Nuclear Operating Company, Inc. (SNC) at Plant Vogtle in Waynesboro, Georgia. Groundwater monitoring was initiated in 2002 in accordance with the approved Groundwater Monitoring Plan for the landfills. The landfills are operated under Solid Waste Permit #s 017-006D(L)(I) and 017-007D(L)(I) and are used for disposal of non-putrescible, non-liquid office and solid waste as well as construction/demolition debris such as asbestos insulation, wooden pallets and concrete. The active trench at Landfill #2 is used only for asbestos disposal. Landfill #3, permitted in 1987, has been utilized solely for construction and demolition debris disposal since 1992.

Sampling, analyses and data evaluation were conducted in accordance with the rules of the Georgia Department of Natural Resources Environmental Protection Division, Chapter 391-3-4, the September 1991 “Manual for Groundwater Monitoring” and the approved Groundwater Monitoring Plan for the landfills.

The findings of the initial four sampling events, conducted from August 2002 through December 2002, and subsequent semi-annual sampling events are presented in reports previously submitted to the Department. This report presents the results of the June 2004 semi-annual monitoring event. Subsequent reports will be prepared upon completion of semi-annual monitoring events as scheduled in the Groundwater Monitoring Plan.

## 2 – Monitoring Well Network

The groundwater monitoring well network consists of four permanent monitoring wells located along the north, east and south waste unit management boundaries of Landfill #2 (*Figure 1*), and seven permanent monitoring wells located along the perimeter of the waste management unit boundary of Landfill #3 (*Figure 2*). As shown in the figures, the wells are located outside of, but as close as practical to, the waste disposal areas. The wells are screened within the uppermost water-producing zones underlying the landfills, which occur from approximately 35 to 60 feet below land surface at Landfill #2 and from approximately 30 to 50 feet below land surface at Landfill #3.

The four permanent groundwater monitoring wells at Landfill #2 were installed in September 2001 after advancing a total of eight deep soil borings around the landfill boundary. The upgradient well is GWA-2/MW-2 and the downgradient, or compliance, wells are GWC-3/MW-3, GWB-4/MW-4 and GWC-11/MW-11. The well construction details are presented in *Table 1*. The wells will be referred to as GWA-2, GWC-3, GWB-4 and GWC-11 in this report and future reports consistent with the Department’s well identification guidelines.

The seven permanent groundwater monitoring wells at Landfill #3 were installed in September 2001 and in July 2002. The well construction details are presented in *Table 2*. Wells GWA-7/MW-7 and GWA-15/MW-15 are located at the south and southwest portions of the landfill boundary. Wells GWC-5/MW-5, GWC-13/MW-13 and GWC-14/MW-14 are located along the eastern portion of the landfill boundary, and wells GWB-6/MW-6 and GWB-16/MW-16 are located along the northern landfill boundary. Well GWA-7/MW-7 was initially treated as a compliance (downgradient) well for Landfill #3. However, due to review of water level measurements showing this well to be side gradient from the active fill area of the landfill, well GWA-7/MW-7 was evaluated as a background well in the monitoring reports from the June 2003 and December 2004 sampling events. Based on the consistent detection of trichlorofluoromethane and the most recent detection of trichloroethene in Well GWA-7/MW-7, it seems more appropriate to return to evaluating this well as a compliance

well and this approach is used in this monitoring report. The most appropriate designation for this well will continue to be evaluated in light of future monitoring results. For this report, well GWA-15/MW-15 is the designated background well, and the remaining wells are designated compliance wells. The wells will be referred to as GWC-5, GWB-6, GWA-7, GWC-13, GWC-14, GWA-15 and GWB-16 in this report and future reports in accordance with the Department's well identification guidelines.

Two surface water monitoring stations are located within the stormwater sediment ponds recently constructed at Landfill #3 in accordance with the approved Design and Operational Plan for the landfill. However, no surface water samples were collected during the June 2004 since there was no discharge from the ponds at the time of sampling.

### **3 – Groundwater Flow Rate and Directional Data**

#### *3.1 Geology/Hydrogeology*

The geology of the Plant Vogtle site consists of sedimentary deposits within the Coastal Plain physiographic province of Georgia. These sediments consist of unconsolidated sands, silts and clays comprised of marine and non-marine fluvial deposits. Marls and limestone were also encountered at depth in deep borings completed at the landfills. A boring completed to approximately 126 feet below land surface at the northwest boundary of Landfill #2 appears to have been completed just into or immediately on top of the Utley Limestone member. The marls encountered during drilling were components of the Irwinton Sand member. Either all or parts of the Barnwell Group members (except the Utley Limestone member) were also encountered in the other borings conducted at the landfills. Underlying the Barnwell Group is the Lisbon Formation with its uppermost unit, the Blue Bluff Marl, located immediately under the Utley Limestone. This marl layer, approximately 70 feet thick, is a near-impermeable layer that effectively confines the Tertiary and Cretaceous aquifers, the two confined aquifers beneath the Plant site.

The occurrence of groundwater underlying the landfills appears in confined, semi-confined, unconfined, and perched hydrogeologic units. Groundwater is found primarily in sands, silty sands, clayey sands and marl limestone interfaces. The main difference between boring/well water production characteristics and aquifer confining characteristics appears to be the thickness of the water-producing zone, the grain size of the sand component, the sand/clay ratio and the characteristics of the marl/limestone interface.

Groundwater may also exist in an unconfined water table aquifer in the Barnwell sands and limestone that overlie the marl. The water table aquifer at the site is on an interfluvial ridge, or a topographically high area in which the groundwater in the water table discharges along streams that surround the topographic high. The streams eventually discharge to the Savannah River.

#### *3.2 Groundwater Elevations and Gradients*

During well installation, the occurrence of groundwater was determined by collecting continuous split spoon samples beginning approximately five feet above the location of expected groundwater-producing zones. At both landfills, groundwater was generally found in water producing zones less than one foot thick and was observed to be under semi-confined or confined conditions.

Upon completion of all drilling activities, measuring points were located on the tops of the well casings and surveyed relative to mean sea level (msl). During each sampling event, depth to water measurements were recorded in the wells from the surveyed elevations using an electronic water-level

indicator. The water level measurements were then subtracted from the appropriate measuring point elevations to determine groundwater elevations in the wells.

Hydraulic conductivity (K) in the wells was measured on September 26, 2001. The values ranged from  $5.634 \times 10^{-4}$  cm/sec in GWA-6 to  $3.064 \times 10^{-2}$  cm/sec in GWA-2.

#### Landfill #2

Depth to water measurements and groundwater elevations for the wells at Landfill 2 are presented in *Table 1*. Groundwater elevations measured during the sampling events to date indicate groundwater underneath Landfill 2 trends from a relatively higher elevation at the eastern/northeastern portion of the landfill (GWA-2) to relatively lower elevations to the west/southwest beneath the landfill (*Figure 1*). Well GWC-11 is not used to construct the potentiometric surface map because the uppermost water-bearing unit at this location appears to be within a different hydrologic zone based on the significantly lower groundwater elevation measured in well GWC-11 compared to wells GWA-2, GWC-3 and GWA-4.

The hydraulic gradient of 0.02 (shown on *Figure 1* for June 2004) was calculated using a three-point problem from potentiometric surface elevations in monitoring wells GWA-2, GWC-3 and GWA-4. The calculations used in determining the gradient are provided in *Appendix A*. The hydraulic gradient has ranged from a minimum of 0.01 (October 2002) to a maximum of 0.08 (June 2003).

#### Landfill #3

Depth to water measurements and groundwater elevations for the wells at Landfill #3 are presented in *Table 2*. Groundwater elevations measured to date indicate that the groundwater elevation, or hydraulic 'head,' is greatest beneath the center area of the landfill, and decreases to the southeast, to the northeast and to the west-southwest beneath the landfill. This mounding effect is believed to be the result of natural infiltration in the sandy soils within the historic topographically high area in the center of the landfill. This topographically high area, which encompasses a broad area within the landfill, is a natural site feature that was present prior to any landfilling operations. *Figure 2* shows the topography of the landfill resulting from recent grading activities associated with the landfill's Design and Operation Plan requirements. The topographically high area is now centered in the north middle portion of the landfill near well GWA-6.

As discussed previously, the water-bearing stratigraphy beneath Landfill #3 is composed of individual saturated sand units within a clayey/marl matrix. These units may or may not be interconnected. As such, groundwater elevations in the monitoring wells may reflect head in multiple perched layers and may not represent groundwater 'flow' direction beneath the landfill. *Figure 2* presents a map depicting the saturated head contours measured on June 15, 2004.

Monitoring well GWA-15 is the well most representative of background water quality at the site because of the distance between the well and the current landfilled area, and the location of the area of relatively higher head located between the well and the current landfilled area on the eastern portion of the site. This well is therefore used as a background well to evaluate groundwater quality at the landfill. Well GWA-7 is now evaluated as a downgradient well based on review of the groundwater elevation and chemical analysis data collected since 2002.

The hydraulic gradient was calculated using a three-point problem from groundwater elevations in the monitoring wells as follows for each main direction of head difference:

Southwest: GWA-7, GWA-6 and GWA-15;



Northeast: GWB-6, GWC-13, and GWC-5; and  
Southeast: GWA-7, GWC-13, and GWC-14.

The calculated hydraulic gradients are presented on the contour map (*Figure 2*). The calculations used in determining the gradients are provided in *Appendix A*. In past monitoring events, the steepest hydraulic gradient has been consistently to the northeast. The northeast trending gradient has ranged from a minimum of 0.08 (October and December 2002, June 2004) to a maximum of 0.17 (June 2003). For this monitoring event, the steepest gradient was observed in the southeast flow component. The flattest gradient has consistently been observed to the southwest across the landfill. The gradient in this direction was calculated to be 0.01 in June 2004.

## 4 – Sampling Procedures and Parameter Analyses

### 4.1 Procedures and Field Measurements

Prior to sample collection during each sampling event, depth to water measurements are recorded in each well from the surveyed elevations using an electronic water level indicator. The water level indicator is decontaminated using a potable water and Alconox® wash and a potable water rinse between use at each well. The water level measurements are then subtracted from the appropriate measuring point elevations to determine the groundwater elevations in the wells.

Groundwater samples were collected from all monitoring wells after the wells were properly purged according to the EPA document entitled “Low-Flow Purging & Sampling of Groundwater Monitoring Wells (Bulletin QAD023)”. The wells were purged and sampled using QED SamplePro pumps equipped with Teflon® bladders. Purge rates were matched to the recovery rates of the wells, verified by periodic depth to water measurements to determine draw-down during purging. Purging was conducted until at least three consecutive stable readings of pH, conductivity, and turbidity were recorded. Groundwater samples were then collected directly into pre-preserved sample containers supplied by the laboratory. Final measurements of pH, conductivity, and turbidity were performed to verify that these parameters remained stable during sampling. All field instruments were calibrated in the field daily prior to use and at the conclusion of each sampling event. The field measurements are provided in *Tables 3 and 4*.

After each sample was collected, the SamplePro pumps and airlines were decontaminated according to the following protocol:

- The pump and air line were placed on clean plastic;
- The pump was disassembled and the bladder was removed;
- The pump was sprayed with a potable water and Alconox® solution, followed with a distilled water rinse until all soap residue was removed;
- A new pump bladder was then installed in the pump prior to reassembly; and
- The pump airline was placed in a clean plastic bag between use at each well.

### 4.2 Parameter Analyses

In accordance with the approved Groundwater Monitoring Plan, the groundwater samples and field and laboratory quality assurance/quality control (QA/QC) samples were analyzed for the Chapter 391-3-4 Appendix I list of parameters, which consists of total metals and volatile organic compounds (*Table 5*). The field QA/QC samples consisted of duplicate samples, trip blanks and equipment blanks. Metals analyses were conducted using EPA Methods 6010B/7841, and VOCs analyses were conducted using EPA Methods 6010B/8260B and 504.1 to provide sufficiently sensitive quantitation

limits for comparison with maximum contaminant limits. Advanced Chemistry Labs, Inc., Atlanta, Georgia performed the laboratory analyses. The complete laboratory analytical reports, which include field and laboratory QA/QC results and chain-of-custody forms, are provided in *Appendix B*.

Assessment monitoring was conducted at Landfill #3 for the June 2004 sampling event based on statistically significant concentrations of barium and three organic parameters indicated in the GWC-13 and GWC-14 well samples in previous sampling events. Chapter 391-3-4 Appendix II parameter mercury was also detected previously in the GWC-13 and GWC-14 well samples. Assessment monitoring consisted of analyses of Appendix II parameters for the GWA-15, GWC-13 and GWC-14 well samples, and mercury for all well samples.

## 5 – Groundwater Quality Evaluation

### 5.1 Detected Parameters

Tables 6 and 7 present a summary of all analyzed parameters detected above the laboratory method reporting limits.

#### *Landfill #2*

At Landfill #2, barium was detected at 0.020 milligrams per liter (mg/l) in the GWC-3 sample. The maximum contaminant level (MCL) for barium is 2.0 mg/l. The organic parameter trichlorofluoromethane was also detected at 7 micrograms per liter (ug/l) in the GWC-4 sample. There is no MCL for this parameter.

No parameters were detected in any of the field or laboratory QA/QC samples, and the laboratory QA/QC checks were within acceptable limits.

#### *Landfill #3*

At Landfill #3, barium was detected at concentrations below the MCL in the samples from wells GWC-5 (0.040 mg/l) and GWC-13 (0.034 mg/l). Appendix II parameter mercury was also detected at 0.0006 mg/l (MCL of 0.002 mg/l) in the sample from well GWA-7.

There was insufficient water to collect samples from GWC-14.

In the sample from compliance well GWC-13, volatile organic compounds (VOCs) 1,1-dichloroethane, cis-1,2-dichloroethene and trichlorofluoromethane were detected at low levels, below MCLs where applicable. Trichlorofluoromethane was also detected in the GWA-7 sample. Vinyl chloride was detected at the MCL of 2 ug/l in the GWC-13 sample, and trichloroethene was detected above the MCL of 5 ug/l in the GWA-7 sample (13 ug/l). This is the first detection of trichloroethene in any well sample from any sampling event.

No parameters were detected in any of the field or laboratory QA/QC samples, and the laboratory QA/QC checks were within acceptable limits.

### 5.2 Statistical Analyses

In accordance with the approved Groundwater Monitoring Plan, statistical analyses were conducted for each constituent detected in the compliance well samples for this sampling event. The analyses were conducted to help identify any significant increase in constituent concentrations in

downgradient, or compliance, well samples over samples representative of background water quality. The analyses were conducted consistent with U.S. EPA recommended methods as detailed in the guidance document "Statistical Analysis of Groundwater Monitoring Data at RCRA Facilities – Interim Final Guidelines" (1989) and the corresponding Addendum (1992).

The following methodology was used to evaluate the data:

- The distribution of the data was first evaluated for normality using the Shapiro-Wilkes Test as recommended in the 1992 EPA guidance. The test indicates non-normal concentration distributions of the detected parameters in all wells at both landfills for either non-transformed or log-transformed data sets.
- For the well data sets at both landfills, the Kruskal-Wallis non-parametric analysis of variance method was used to compare the concentrations of individual parameters in each compliance well to the concentrations of these parameters in the background well. This method is recommended by the 1992 EPA guidance for non-normal sample sets that have between 15% and 90% non-detects.

The detailed statistical analyses are provided in *Appendix C* and the results are summarized below.

#### 5.2.1 Landfill #2

At Landfill #2, barium was detected in the sample from compliance well GWC-3 and trichlorofluoromethane was detected in the GWC-4 well sample. The analyses do not indicate statistically significant higher concentrations of these parameters in the compliance well samples compared to the concentrations in the background well sample. In addition, the barium concentration was below the MCL. There is no MCL for trichlorofluoromethane.

#### 5.2.2 Landfill #3

Compared to background well GWA-15/MW-15, the analyses indicate statistically significant higher concentrations of the following parameters:

- Barium, 1,1-dichloroethane and trichlorofluoromethane in the GWC-13 well samples,
- Trichlorofluoromethane in the GWA-7 well samples, and
- Barium, 1,1-dichloroethane and cis-1,2-dichloroethene in the GWC-14 well samples.

Trichloroethene and the Appendix II parameter, mercury, were also detected in the GWA-7 well sample in the June 2004 sampling event. Mercury was detected at 0.0006 mg/l (MCL of 0.002 mg/l), and trichloroethene was detected at 13 ug/l (MCL of 5 ug/l). Statistical analyses of mercury concentrations were not performed since this parameter was only analyzed for the third time as a component of assessment monitoring for this event. Trichloroethene was not analyzed because of the single detection of this parameter for all sampling events to date.

It should be noted that the statistical analyses data sets include all sampling events to date for all wells. As a result, statistically higher concentrations of detected parameters in a well are determined based on all reported concentrations (including consideration of non-detects) from all sampling events for that well. If a concentration is lower in the current event for a well, the complete data set for the well may still indicate a statistically higher concentration over the background well data set considering all sampling events to date. For example, although GWC-14 was not sampled for this

event, the statistical analyses indicate significantly higher concentrations of barium, 1,1-dichloroethane and cis-1,2-dichloroethene for the GWC-14 historical sample data set.

## **6 – Conclusions**

Since a statistically significant increase over background is indicated for several analyzed parameters in wells GWA-7, GWC-13 and GWC-14 at Landfill #3, SNC will place a notice in the operating record within 14 days of submittal of this report as required by Chapter 391-3-4. The notice will indicate which constituents have shown statistically significant higher concentrations compared to the background wells. The notice will also include detection of trichloroethene above the MCL and the Appendix II parameter, mercury, in well sample GWA-7.

SNC has now completed three rounds of Appendix II parameter sampling in wells GWC-13, GWC-14 and GWA-15, and found all Appendix II parameters with the exception of mercury to be below the analytical detection limit. Therefore, for future monitoring events we propose to perform analysis for the Appendix II parameter mercury in all wells. After completion of four semi-annual sampling events for mercury, this parameter will be added to the routine statistical analysis that is currently performed for the Appendix I parameters. As this is the first monitoring event where GWA-7 has both been treated as a compliance well and also has a statistically significant increase above background, this well will be monitored for the Appendix II parameters in the December 2004 monitoring event. A separate request will be submitted for approval to discontinue annual sampling for the other Appendix II parameters in wells GWC-13, GWC-14 and GWA-15, based on the lack of detection of these parameters in the last three monitoring events.

## TABLES

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Table 1  
Southern Nuclear Operating Company Plant Vogtle Landfill #2  
Groundwater Elevations and Monitoring Well Construction Details

| Well ID      | Date       | Measuring Point Elevation<br>(feet, msl) | Ground Surface Elevation<br>(feet, msl) | Depth to Water<br>(feet, topvc) | Total Boring<br>Depth<br>(feet, bls) | Total Well<br>Depth<br>(feet, topvc) | Riser<br>Height<br>(feet) | Screened Interval<br>(feet, msl) | Groundwater<br>Elevation<br>(feet, msl) |
|--------------|------------|--|---|---------------------------------|--------------------------------------|--------------------------------------|---------------------------|----------------------------------|---|
| GWA-2/MW-2   | 9/26/2001  | 249.41                                   | 246.76                                  | 40.02                           | 57                                   | 47.30                                | 2.70                      | 191.76 to 201.76                 | 209.39                                  |
|              | 7/29/2002  |  |   | 41.69                           |                                      |                                      |                           |                                  | 207.72                                  |
|              | 9/9/2002   |  |   | 41.64                           |                                      |                                      |                           |                                  | 207.77                                  |
|              | 10/21/2002 |  |   | 42.72                           |                                      |                                      |                           |                                  | 206.69                                  |
|              | 12/3/2002  |  |   | 40.69                           |                                      |                                      |                           |                                  | 208.72                                  |
|              | 6/24/2003  |  |   | 37.58                           |                                      |                                      |                           |                                  | 211.83                                  |
|              | 12/17/2003 |  |   | 39.98                           |                                      |                                      |                           |                                  | 209.43                                  |
|              | 6/15/2004  |  |   | 39.59                           |                                      |                                      |                           |                                  | 209.82                                  |
| GWC-3/MW-3   | 9/26/2001  | 250.41                                   | 247.81                                  | 50.45                           | 50                                   | 52.08                                | 2.66                      | 187.81 to 197.81                 | 199.96                                  |
|              | 7/29/2002  |  |   | 50.05                           |                                      |                                      |                           |                                  | 200.36                                  |
|              | 9/9/2002   |  |   | 50.79                           |                                      |                                      |                           |                                  | 199.62                                  |
|              | 10/21/2002 |  |   | 49.30                           |                                      |                                      |                           |                                  | 201.11                                  |
|              | 12/3/2002  |  |   | 50.26                           |                                      |                                      |                           |                                  | 200.15                                  |
|              | 6/24/2003  |  |   | 51.58                           |                                      |                                      |                           |                                  | 198.83                                  |
|              | 12/17/2003 |  |   | 47.89                           |                                      |                                      |                           |                                  | 202.52                                  |
|              | 6/15/2004  |  |   | 47.44                           |                                      |                                      |                           |                                  | 202.97                                  |
| GWB-4/MW-4   | 9/26/2001  | 242.40                                   | 239.83                                  | 39.84                           | 54                                   | 48.80                                | 2.60                      | 183.83 to 193.83                 | 202.56                                  |
|              | 7/29/2002  |  |   | 40.06                           |                                      |                                      |                           |                                  | 202.34                                  |
|              | 9/9/2002   |  |   | 41.27                           |                                      |                                      |                           |                                  | 201.13                                  |
|              | 10/21/2002 |  |   | 40.50                           |                                      |                                      |                           |                                  | 201.90                                  |
|              | 12/4/2002  |  |   | 39.65                           |                                      |                                      |                           |                                  | 202.75                                  |
|              | 6/24/2003  |  |   | 38.10                           |                                      |                                      |                           |                                  | 204.30                                  |
|              | 12/17/2003 |  |   | 39.53                           |                                      |                                      |                           |                                  | 202.87                                  |
|              | 6/15/2004  |  |   | 39.46                           |                                      |                                      |                           |                                  | 202.94                                  |
| GWC-11/MW-11 | 7/29/2002  | 227.53                                   | 225.09                                  | 64.80                           | 65                                   | 68.95                                | 2.44                      | 158.58 to 168.58                 | 162.73                                  |
|              | 9/9/2002   |  |   | 59.99                           |                                      |                                      |                           |                                  | 167.54                                  |
|              | 10/21/2002 |  |   | 65.27                           |                                      |                                      |                           |                                  | 162.26                                  |
|              | 12/4/2002  |  |   | 65.49                           |                                      |                                      |                           |                                  | 162.04                                  |
|              | 6/24/2003  |  |   | 59.72                           |                                      |                                      |                           |                                  | 167.81                                  |
|              | 12/17/2003 |  |   | 59.33                           |                                      |                                      |                           |                                  | 168.20                                  |
|              | 6/15/2004  |  |   | 60.69                           |                                      |                                      |                           |                                  | 166.84                                  |

Notes:

Ground surface measured at survey bolt set in concrete pad at base of protective casing.

msl = mean sea level.

topvc = measured from top of pvc riser.

bls = below land surface.

Table 2  
Southern Nuclear Operating Company Plant Vogtle Landfill #3  
Groundwater Elevations and Monitoring Well Construction Details

| Well ID      | Date       | Measuring Point Elevation<br>(feet, msl) | Ground Surface Elevation<br>(feet, msl) | Depth to Water<br>(feet, topvc) | Total Boring<br>Depth<br>(feet, bls) | Total Well<br>Depth<br>(feet, topvc) | Riser<br>Height<br>(feet) | Screened Interval<br>(feet, msl) | Groundwater<br>Elevation<br>(feet, msl) |
|--------------|------------|--|---|---------------------------------|--------------------------------------|--------------------------------------|---------------------------|----------------------------------|---|
| GWC-5/MW-5   | 9/26/2001  | 251.96                                   | 249.11                                  | 48.65                           | 57                                   | 57.41                                | 2.89                      | 185.11 to 195.11                 | 203.31                                  |
|              | 7/29/2002  |  |   | 50.21                           |                                      |                                      |                           |                                  | 201.75                                  |
|              | 9/9/2002   |  |   | 50.43                           |                                      |                                      |                           |                                  | 201.53                                  |
|              | 10/21/2002 |  |   | 49.26                           |                                      |                                      |                           |                                  | 202.70                                  |
|              | 12/3/2002  |  |   | 49.26                           |                                      |                                      |                           |                                  | 202.70                                  |
|              | 6/24/2003  |  |   | 44.60                           |                                      |                                      |                           |                                  | 207.36                                  |
|              | 12/16/2003 |  |   | 47.55                           |                                      |                                      |                           |                                  | 204.41                                  |
|              | 6/15/2004  |  |   | 47.76                           |                                      |                                      |                           |                                  | 204.20                                  |
| GWB-6/MW-6   | 9/26/2001  | 278.87                                   | 276.45                                  | 47.47                           | 67                                   | 64.34                                | 2.43                      | 202.45 to 212.45                 | 231.40                                  |
|              | 7/29/2002  |  |   | 48.52                           |                                      |                                      |                           |                                  | 230.35                                  |
|              | 9/9/2002   |  |   | 48.55                           |                                      |                                      |                           |                                  | 230.32                                  |
|              | 10/21/2002 |  |   | 49.21                           |                                      |                                      |                           |                                  | 229.66                                  |
|              | 12/3/2002  |  |   | 48.86                           |                                      |                                      |                           |                                  | 230.01                                  |
|              | 6/24/2003  |  |   | 46.92                           |                                      |                                      |                           |                                  | 231.95                                  |
|              | 12/16/2003 |  |   | 46.30                           |                                      |                                      |                           |                                  | 232.57                                  |
|              | 6/15/2004  |  |   | 46.49                           |                                      |                                      |                           |                                  | 232.38                                  |
| GWA-7/MW-7   | 9/26/2001  | 261.33                                   | 259.39                                  | 31.11                           | 50                                   | 40.22                                | 1.90                      | 211.11 to 221.11                 | 230.22                                  |
|              | 7/29/2002  |  |   | 33.16                           |                                      |                                      |                           |                                  | 228.17                                  |
|              | 9/9/2002   |  |   | 33.25                           |                                      |                                      |                           |                                  | 228.08                                  |
|              | 10/21/2002 |  |   | 33.20                           |                                      |                                      |                           |                                  | 228.13                                  |
|              | 12/3/2002  |  |   | 32.94                           |                                      |                                      |                           |                                  | 228.39                                  |
|              | 6/24/2003  |  |   | 27.51                           |                                      |                                      |                           |                                  | 233.82                                  |
|              | 12/16/2003 |  |   | 30.59                           |                                      |                                      |                           |                                  | 230.74                                  |
|              | 6/15/2004  |  |   | 30.87                           |                                      |                                      |                           |                                  | 230.46                                  |
| GWC-13/MW-13 | 7/29/2002  | 273.08                                   | 270.99                                  | 40.92                           | 50                                   | 50.14                                | 2.09                      | 222.94 to 232.94                 | 232.16                                  |
|              | 9/9/2002   |  |   | 41.00                           |                                      |                                      |                           |                                  | 232.08                                  |
|              | 10/21/2002 |  |   | 40.94                           |                                      |                                      |                           |                                  | 232.14                                  |
|              | 12/3/2002  |  |   | 40.48                           |                                      |                                      |                           |                                  | 232.60                                  |
|              | 6/24/2003  |  |   | 36.90                           |                                      |                                      |                           |                                  | 236.18                                  |
|              | 12/16/2003 |  |   | 39.17                           |                                      |                                      |                           |                                  | 233.91                                  |
|              | 6/15/2004  |  |   | 39.59                           |                                      |                                      |                           |                                  | 233.49                                  |

Table 2  
Southern Nuclear Operating Company Plant Vogtle Landfill #3  
Groundwater Elevations and Monitoring Well Construction Details

| Well ID      | Date       | Measuring Point Elevation<br>(feet, msl) | Ground Surface Elevation<br>(feet, msl) | Depth to Water<br>(feet, topvc) | Total Boring<br>Depth<br>(feet, bls) | Total Well<br>Depth<br>(feet, topvc) | Riser<br>Height<br>(feet) | Screened Interval<br>(feet, msl) | Groundwater<br>Elevation<br>(feet, msl) |
|--------------|------------|--|---|---------------------------------|--------------------------------------|--------------------------------------|---------------------------|----------------------------------|---|
| GWC-14/MW-14 | 7/29/2002  | 262.88                                   | 260.66                                  | 40.05                           | 60                                   | 53.38                                | 2.22                      | 209.50 to 229.50                 | 222.83                                  |
|              | 9/9/2002   |  |   | 42.31                           |                                      |                                      |                           |                                  | 220.57                                  |
|              | 10/21/2002 |  |   | 42.79                           |                                      |                                      |                           |                                  | 220.09                                  |
|              | 12/3/2002  |  |   | 42.35                           |                                      |                                      |                           |                                  | 220.53                                  |
|              | 6/24/2003  |  |   | 44.29                           |                                      |                                      |                           |                                  | 218.59                                  |
|              | 12/16/2003 |  |   | 51.52                           |                                      |                                      |                           |                                  | 211.36                                  |
|              | 6/15/2004  |  |   | 52.11                           |                                      |                                      |                           |                                  | 210.77                                  |
| GWA-15/MW-15 | 7/29/2002  | 268.15                                   | 265.34                                  | 45.94                           | 55                                   | 56.86                                | 2.81                      | 211.29 to 221.29                 | 222.21                                  |
|              | 9/9/2002   |  |   | 46.05                           |                                      |                                      |                           |                                  | 222.10                                  |
|              | 10/21/2002 |  |   | 46.19                           |                                      |                                      |                           |                                  | 221.96                                  |
|              | 12/3/2002  |  |   | 46.23                           |                                      |                                      |                           |                                  | 221.92                                  |
|              | 6/24/2003  |  |   | 41.76                           |                                      |                                      |                           |                                  | 226.39                                  |
|              | 12/16/2003 |  |   | 43.29                           |                                      |                                      |                           |                                  | 224.86                                  |
|              | 6/15/2004  |  |   | 43.24                           |                                      |                                      |                           |                                  | 224.91                                  |
| GWB-16/MW-16 | 7/29/2002  | 256.95                                   | 254.57                                  | DRY                             | 65                                   | 67.39                                | 2.38                      | 189.56 to 209.56                 | DRY                                     |
|              | 9/9/2002   |  |   | DRY                             |                                      |                                      |                           |                                  | DRY                                     |
|              | 10/21/2002 |  |   | DRY                             |                                      |                                      |                           |                                  | DRY                                     |
|              | 12/3/2002  |  |   | DRY                             |                                      |                                      |                           |                                  | DRY                                     |
|              | 6/24/2003  |  |   | DRY                             |                                      |                                      |                           |                                  | DRY                                     |
|              | 12/16/2003 |  |   | DRY                             |                                      |                                      |                           |                                  | DRY                                     |
|              | 6/15/2004  |  |   | DRY                             |                                      |                                      |                           |                                  | DRY                                     |

Notes:

Ground surface measured at survey bolt set in concrete pad at base of protective casing.  
msl = mean sea level; topvc = measured from top of pvc riser; bls = below land surface



Table 3  
Southern Nuclear Operating Company Plant Vogtle Landfill #2  
Groundwater Sampling Field Measurements

| Well ID      | Date       | pH   | Conductivity <sup>1</sup> | Turbidity <sup>2</sup> | Gallons Purged | Odor | Color      | Notes                                |
|--------------|------------|------|---------------------------|------------------------|----------------|------|------------|--------------------------------------|
| GWA-2/MW-2   | 9/26/2001  | --   | --                        | --                     | --             | --   | --         | Well development only                |
|              | 7/29/2002  | 4.69 | 19                        | 13.8                   | 2.5            | none | none       |                                      |
|              | 9/9/2002   | 4.51 | 24.9                      | 7.53                   | --             | none | none       |                                      |
|              | 10/21/2002 | 5.17 | 18                        | 1.31                   | 3.1            | none | none       |                                      |
|              | 12/3/2002  | 5.30 | 13                        | 9.1                    | 3.5            | none | none       |                                      |
|              | 6/24/2003  | 6.28 | 26.9                      | 5.76                   | 1.0            | none | none       |                                      |
|              | 12/17/2003 | 4.93 | 22.7                      | 4.5                    | 3.5            | none | none       |                                      |
|              | 6/16/2004  | 6.97 | 15.32                     | 5.9                    | 1.5            | none | none       |                                      |
| GWC-3/MW-3   | 9/26/2001  | --   | --                        | --                     | --             | --   | --         | Well development only                |
|              | 7/29/2002  | 4.08 | 27.9                      | 22.2                   | 1.3            | none | none       |                                      |
|              | 9/9/2002   | 6.03 | 36.5                      | 4.08                   | 0.5            | none | none       |                                      |
|              | 10/21/2002 | --   | 176                       | 35.6                   | <0.5 gal       | --   | --         | Too little water to purge and sample |
|              | 12/3/2002  | 5.51 | 488                       | 14.0                   | <0.5 gal       | --   | --         | Too little water to purge and sample |
|              | 6/24/2003  | --   | --                        | --                     | <0.5 gal       | none | none       | Too little water to purge and sample |
|              | 12/17/2003 | 6.59 | 22.7                      | 2.79                   | 2.0            | none | none       |                                      |
|              | 6/16/2004  | 4.91 | 40.8                      | 5.78                   | 1.25           | none | none       |                                      |
| GWB-4/MW-4   | 9/26/2001  | 4.73 | 36.0                      | 15.5                   | 35.0           | --   | --         | Well development only                |
|              | 7/29/2002  | 4.21 | 269                       | 3.63                   | 2.0            | none | none       |                                      |
|              | 9/9/2002   | 4.35 | 34.8                      | 0.55                   | 2.0            | none | none       |                                      |
|              | 10/21/2002 | 5.01 | 25                        | 6.44                   | 3.0            | none | none       |                                      |
|              | 12/4/2002  | 5.51 | 98.7                      | 2.60                   | 4.0            | none | none       |                                      |
|              | 6/24/2003  | 5.33 | 36.0                      | 5.27                   | 2.0            | none | none       |                                      |
|              | 12/17/2003 | 4.62 | 3.55                      | 0.00                   | 1.5            | none | none       |                                      |
|              | 6/16/2004  | 4.63 | 33.80                     | 1.40                   | 3.3            | none | none       |                                      |
| GWC-11/MW-11 | 7/29/2002  | 5.30 | 67.5                      | 36.6                   | 4.0            | none | pale white |                                      |
|              | 9/9/2002   | 6.24 | 97.0                      | 6.51                   | 2.0            | none | none       |                                      |
|              | 10/21/2002 | 5.05 | 75.0                      | 8.05                   | 1.8            | none | none       |                                      |
|              | 12/4/2002  | 5.72 | 57.1                      | 8.10                   | 2.0            | none | none       |                                      |
|              | 6/24/2003  | 6.93 | 70.0                      | 2.70                   | 2.5            | none | none       |                                      |
|              | 12/17/2003 | 7.04 | 69.2                      | 11.2                   | 4.5            | none | none       |                                      |
|              | 6/16/2004  | 6.10 | 58.9                      | 6.1                    | 3.5            | none | none       |                                      |

Notes:

-- = no data recorded

1 - Conductivity in units of umhos/sec

2 - Turbidity in units of NTU

Table 4  
Southern Nuclear Operating Company Plant Vogtle Landfill #3  
Groundwater Sampling Field Measurements

| Well ID      | Date       | pH   | Conductivity <sup>1</sup> | Turbidity <sup>2</sup> | Gallons Purged | Odor | Color      | Notes   |
|--------------|------------|------|---------------------------|------------------------|----------------|------|------------|---|
| GWC-5/MW-5   | 9/26/2001  | 5.11 | 47.5                      | 28.6                   | 6.0            | none | cloudy     | Well development only   |
|              | 7/29/2002  | 5.41 | 24.4                      | 2.83                   | 1.75           | none | none       |   |
|              | 9/9/2002   | 8.13 | 365                       | 4.11                   | 2.0            | none | none       |   |
|              | 10/21/2002 | --   | --                        | --                     | --             | --   | --         |   |
|              | 12/3/2002  | 5.94 | 117                       | 7.8                    | 2.0            | none | none       | Split with GAEPD  |
|              | 6/24/2003  | 5.18 | 29                        | 3.5                    | 6.0            | none | none       |   |
|              | 12/16/2003 | 6.27 | 210                       | 79.7                   | 3.0            | none | cloudy     |   |
|              | 6/16/2004  | 5.94 | 40.7                      | 16.5                   | 2.0            | none | none       |   |
| GWB-6/MW-6   | 9/26/2001  | 7.13 | 242                       | 25.6                   | 2.0            | none | --         | Well development only   |
|              | 7/29/2002  | 6.75 | 1,338                     | 0.35                   | 1.5            | none | none       |   |
|              | 9/9/2002   | 4.13 | 198                       | 6.43                   | 1.5            | none | none       |   |
|              | 10/21/2002 | 6.72 | 573                       | 0.44                   | 2.5            | none | none       |   |
|              | 12/3/2002  | 6.14 | 116                       | 0.45                   | 1.5            | none | none       |   |
|              | 6/24/2003  | 7.09 | 155                       | 9.1                    | 1.5            | none | none       |   |
|              | 12/17/2003 | 6.82 | 126                       | 2.27                   | 1.5            | none | none       |   |
|              | 6/16/2004  | 6.77 | 178.5                     | 1.25                   | 2.75           | none | none       |   |
| GWA-7/MW-7   | 9/26/2001  | --   | --                        | cloudy                 | 30.0           | --   | --         | Well development only   |
|              | 7/29/2002  | 6.97 | 251                       | 8.33                   | 2.5            | none | none       |   |
|              | 9/9/2002   | 7.52 | 327                       | 9.97                   | 5.0            | none | none       |   |
|              | 10/21/2002 | 4.39 | 92                        | 3.14                   | 2.0            | none | none       |   |
|              | 12/3/2002  | 6.51 | 188                       | 7.3                    | 2.5            | none | none       | Turbidity >100 ntu for 2 hours.<br>Turbidity 85-100 ntu for 1 hour. |
|              | 6/24/2003  | 7.02 | 163                       | 101.3                  | 4.0            | none | dark brown |   |
|              | 12/16/2003 | 5.73 | 62.7                      | 100                    | 4.0            | none | mod. brown |   |
|              | 6/15/2004  | 5.94 | 68.9                      | 42.7                   | 2.0            | none | none       |   |
| GWC-13/MW-13 | 7/29/2002  | 6.52 | 421                       | 0.66                   | --             |      |            | Split with GAEPD  |
|              | 9/9/2002   | 5.96 | 77.5                      | 6.40                   | 1.0            | none | none       |   |
|              | 10/21/2002 | 6.19 | 73.4                      | 3.09                   | 2.5            | none | none       |   |
|              | 12/3/2002  | 6.54 | 481                       | 1.00                   | 2.5            | none | none       |   |
|              | 6/24/2003  | 5.95 | 271                       | 2.02                   | 2.5            | none | none       |   |
|              | 12/16/2003 | 5.65 | 294                       | 0.75                   | 6.0            | none | none       |   |
|              | 6/16/2004  | 5.84 | 366                       | 4.70                   | 1.75           | none | none       |   |

Table 4  
Southern Nuclear Operating Company Plant Vogtle Landfill #3  
Groundwater Sampling Field Measurements

| Well ID      | Date       | pH   | Conductivity <sup>1</sup> | Turbidity <sup>2</sup> | Gallons Purged | Odor | Color | Notes                          |
|--------------|------------|------|---------------------------|------------------------|----------------|------|-------|--------------------------------|
| GWC-14/MW-14 | 7/29/2002  | 6.49 | 448                       | 1.15                   | --             | none | none  |                                |
|              | 9/9/2002   | 5.57 | 717                       | 5.19                   | --             | none | none  |                                |
|              | 10/21/2002 | 6.00 | 674                       | 4.65                   | 3.2            | none | none  |                                |
|              | 12/3/2002  | 5.54 | 547                       | 2.7                    | 4.5            | none | none  |                                |
|              | 6/24/2003  | 5.97 | 197                       | 3.61                   | 2.5            | none | none  |                                |
|              | 12/17/2003 | --   | --                        | --                     | --             | --   | --    | Split with GAEPD-VOCs & metals |
|              | 6/15/2004  | --   | --                        | --                     | --             | --   | --    | Well Dry                       |
| GWA-15/MW-15 | 7/29/2002  | 5.70 | 95.8                      | 1.12                   | 4.0            | none | none  |                                |
|              | 9/9/2002   | 5.92 | 118                       | 8.53                   | 2.5            | none | none  |                                |
|              | 10/21/2002 | 5.19 | 81                        | 1.88                   | 4.5            | none | none  |                                |
|              | 12/3/2002  | 7.58 | 78.2                      | 3.6                    | 2.5            | none | none  |                                |
|              | 6/24/2003  | 7.44 | 48.0                      | 5.38                   | 2.5            | none | none  |                                |
|              | 12/17/2003 | 6.93 | 39.4                      | 4.55                   | 6.5            | none | none  | Split with GAEPD               |
|              | 6/15/2004  | 6.47 | 55.7                      | 5.59                   | 2.25           | none | none  |                                |
| GWB-16/MW-16 | 7/29/2002  | --   | --                        | --                     | --             | --   | --    | Well Dry                       |
|              | 9/9/2002   | --   | --                        | --                     | --             | --   | --    | Well Dry                       |
|              | 10/21/2002 | --   | --                        | --                     | --             | --   | --    | Well Dry                       |
|              | 12/3/2002  | --   | --                        | --                     | --             | --   | --    | Well Dry                       |
|              | 6/24/2003  | --   | --                        | --                     | --             | --   | --    | Well Dry                       |
|              | 12/16/2003 | --   | --                        | --                     | --             | --   | --    | Well Dry                       |
|              | 6/15/2004  | --   | --                        | --                     | --             | --   | --    | Well Dry                       |

Notes:

-- = no data recorded; 1 - Conductivity in units of umhos/sec; 2 - Turbidity in units of NTU.

**Table 5**  
**Southern Nuclear Operating Company**  
**Plant Vogtle Landfills #2 and #3**  
**Appendix I to Part 40 CFR Part 258: Constituents for Detection Monitoring (1)**

| Common Name (2)   | EPA Method |
|---|------------|
| <b>Inorganic Constituents:</b>  |            |
| (1) Antimony.....   | 6010B/7041 |
| (2) Arsenic.....  | 6010B/7061 |
| (3) Barium.....   | 6010B/7091 |
| (4) Beryllium.....  | 6010B/7091 |
| (5) Cadmium.....  | 6010B/7131 |
| (6) Chromium.....   | 6010B/7191 |
| (7) Cobalt.....   | 6010B/7201 |
| (8) Copper.....   | 6010B/7211 |
| (9) Lead.....   | 6010B/7421 |
| (10) Nickel.....  | 6010B/7520 |
| (11) Selenium.....  | 6010B/7741 |
| (12) Silver.....  | 6010B/7761 |
| (13) Thallium.....  | 6010B/7841 |
| (14) Vanadium.....  | 6010B/7911 |
| (15) Zinc.....  | 6010B/7951 |
| <b>Organic Constituents:</b>  |            |
| (16) Acetone.....   | 8260       |
| (17) Acrylonitrile.....   |            |
| (18) Benzene.....   |            |
| (19) Bromochloromethane.....  |            |
| (20) Bromodichloromethane.....  |            |
| (21) Bromoform; Tribromomethane.....                                    |            |
| (22) Carbon disulfide.....  |            |
| (23) Carbon tetrachloride.....  |            |
| (24) Chlorobenzene.....   |            |
| (25) Chloroethane; Ethyl chloride.....                                  |            |
| (26) Chloroform; Trichloromethane.....                                  |            |
| (27) Dibromochloromethane; Chlorodibromomethane.....                    |            |
| (28) 1,2-Dibromo-3-chloropropane; DBCP.....                             |            |
| (29) 1,2-Dibromoethane; Ethylene dibromide; EDB.....                    |            |
| (30) o-Dichlorobenzene; 1,2-Dichlorobenzene.....                        |            |
| (31) p-Dichlorobenzene; 1,4-Dichlorobenzene.....                        |            |
| (32) trans-1,4-Dichloro-2-butene.....                                   |            |
| (33) 1,1-Dichloroethane; Ethylidene chloride.....                       |            |
| (34) 1,2-Dichloroethane; Ethylene dichloride.....                       |            |
| (35) 1,1-Dichloroethylene; 1,1-Dichloroethene; Vinylidene chloride..... |            |
| (36) cis-1,2-Dichloroethylene; cis-1,2-Dichloroethene....               |            |
| (37) trans-1,2-Dichloroethylene; trans-1,2-Dichloroethene               |            |
| (38) 1,2-Dichloropropane; Propylene dichloride.....                     |            |
| (39) cis-1,3-Dichloropropene.....                                       |            |
| (40) trans-1,3-Dichloropropene.....                                     |            |
| (41) Ethylbenzene.....  |            |
| (42) 2-Hexanone; Methyl butyl ketone.....                               |            |
| (43) Methyl bromide; Bromomethane.....                                  |            |
| (44) Methyl chloride; Chloromethane.....                                |            |

**Table 5 (continued)**  
**Southern Nuclear Operating Company, Inc.**  
**Plant Vogtle Landfills #2 and #3**  
**Appendix I to Part 40 CFR Part 258: Constituents for Detection Monitoring (1)**

| Common Name (2)  | EPA Method |
|--|------------|
| (45) Methylene bromide; Dibromomethane.....                            | 8260       |
| (46) Methylene chloride; Dichloromethane.....                          |            |
| (47) Methyl ethyl ketone; MEK; 2-Butanone.....                         |            |
| (48) Methyl iodide; Iodomethane.....                                   |            |
| (49) 4-Methyl-2-pentanone; Methyl isobutyl ketone.....                 |            |
| (50) Styrene.....  |            |
| (51) 1,1,1,2-Tetrachloroethane.....                                    |            |
| (52) 1,1,2,2-Tetrachloroethane.....                                    |            |
| (53) Tetrachloroethylene; Tetrachloroethene;<br>Perchloroethylene..... |            |
| (54) Toluene.....  |            |
| (55) 1,1,1-Trichloroethane; Methylchloroform.....                      |            |
| (56) 1,1,2-Trichloroethane.....  |            |
| (57) Trichloroethylene; Trichloroethene.....                           |            |
| (58) Trichlorofluoromethane; CFC-11.....                               |            |
| (59) 1,2,3-Trichloropropane.....                                       |            |
| (60) Vinyl acetate.....  |            |
| (61) Vinyl chloride.....   |            |
| (62) Xylenes.....  |            |

(1) This list contains 47 volatile organics for which possible analytical procedures provided in EPA Report SW-846 ``Test Methods for Evaluating Solid Waste,`` third edition, November 1986, as revised December 1987, includes Method 8260; and 15 metals for which SW-846 provides either Method 6010 or a method from the 7000 series of methods.

(2) Common names are those widely used in government regulations, scientific publications, and commerce; synonyms exist for many chemicals.

**Table 6**  
**Southern Nuclear Operating Company Plant Vogtle Landfill #2**  
**Summary of Detected Parameters**  
**June 2004**

| CONSTITUENT                 | MCL   | WELL SAMPLES |            |            |              |
|-----------------------------|-------|--------------|------------|------------|--------------|
|                             |       | GWA-2/MW-2   | GWC-3/MW-3 | GWB-4/MW-4 | GWC-11/MW-11 |
| <b>Metals<sup>1</sup></b>   |       |              |            |            |              |
| Barium                      | 2.00  | BQL          | 0.020      | BQL        | BQL          |
| Zinc                        | NA    | BQL          | BQL        | BQL        | BQL          |
| <b>Organics<sup>2</sup></b> |       |              |            |            |              |
| 1,1-Dichloroethane          | NA    | BQL          | BQL        | BQL        | BQL          |
| Chlorobenzene               | 100   | BQL          | BQL        | BQL        | BQL          |
| 1,4-Dicholorbenzene         | 75    | BQL          | BQL        | BQL        | BQL          |
| Methylene chloride          | 5     | BQL          | BQL        | BQL        | BQL          |
| cis-1,2-Dichloroethene      | 70    | BQL          | BQL        | BQL        | BQL          |
| Trichlorofluoromethane      | NA    | BQL          | BQL        | 7          | BQL          |
| 1,1-Dichloroethene          | 7     | BQL          | BQL        | BQL        | BQL          |
| Xylenes (Total)             | 10000 | BQL          | BQL        | BQL        | BQL          |
| Vinyl chloride              | 2     | BQL          | BQL        | BQL        | BQL          |

BQL - Below quantification level

MCL - Maximum Contaminant Level per EPD Rule Chapter 391-3-5; NA - None available

NS - Not sampled; well dry

<sup>1</sup>Metals concentrations in mg/L or ppm

<sup>2</sup>Organics concentrations in ug/l or ppb

**Bold** indicates detected concentration is greater than the MCL.

**Table 6 (continued)**  
**Southern Nuclear Operating Company Plant Vogtle Landfill #2**  
**Summary of Detected Parameters**  
**December 2003**

| CONSTITUENT                 | MCL   | WELL SAMPLES |            |            |              |
|-----------------------------|-------|--------------|------------|------------|--------------|
|                             |       | GWA-2/MW-2   | GWC-3/MW-3 | GWB-4/MW-4 | GWC-11/MW-11 |
| <b>Metals<sup>1</sup></b>   |       |              |            |            |              |
| Barium                      | 2.00  | BQL          | BQL        | BQL        | 0.022        |
| Zinc                        | NA    | BQL          | BQL        | BQL        | BQL          |
| <b>Organics<sup>2</sup></b> |       |              |            |            |              |
| 1,1-Dichloroethane          | NA    | BQL          | BQL        | BQL        | BQL          |
| Chlorobenzene               | 100   | BQL          | BQL        | BQL        | BQL          |
| 1,4-Dicholorbenzene         | 75    | BQL          | BQL        | BQL        | BQL          |
| Methylene chloride          | 5     | BQL          | BQL        | BQL        | BQL          |
| cis-1,2-Dichloroethene      | 70    | BQL          | BQL        | BQL        | BQL          |
| Trichlorofluoromethane      | NA    | BQL          | BQL        | 6          | BQL          |
| 1,1-Dichloroethene          | 7     | BQL          | BQL        | BQL        | BQL          |
| Xylenes (Total)             | 10000 | BQL          | BQL        | BQL        | BQL          |
| Vinyl chloride              | 2     | BQL          | BQL        | BQL        | BQL          |

BQL - Below quantification level

MCL - Maximum Contaminant Level per EPD Rule Chapter 391-3-5; NA - None available

NS - Not sampled; well dry

<sup>1</sup>Metals concentrations in mg/L or ppm

<sup>2</sup>Organics concentrations in ug/l or ppb

**Bold** indicates detected concentration is greater than the MCL.

**Table 6 (continued)**  
**Southern Nuclear Operating Company Plant Vogtle Landfill #2**  
**Summary of Detected Parameters**  
**June 2003**

| CONSTITUENT                 | MCL   | WELL SAMPLES |            |            |              |
|-----------------------------|-------|--------------|------------|------------|--------------|
|                             |       | GWA-2/MW-2   | GWC-3/MW-3 | GWB-4/MW-4 | GWC-11/MW-11 |
| <b>Metals<sup>1</sup></b>   |       |              |            |            |              |
| Barium                      | 2.00  | BQL          | NS         | BQL        | BQL          |
| Zinc                        | NA    | BQL          | NS         | BQL        | 0.029        |
| <b>Organics<sup>2</sup></b> |       |              |            |            |              |
| 1,1-Dichloroethane          | NA    | BQL          | NS         | BQL        | BQL          |
| Chlorobenzene               | 100   | BQL          | NS         | BQL        | BQL          |
| 1,4-Dicholorbenzene         | 75    | BQL          | NS         | BQL        | BQL          |
| Methylene chloride          | 5     | BQL          | NS         | BQL        | BQL          |
| cis-1,2-Dichloroethene      | 70    | BQL          | NS         | BQL        | BQL          |
| Trichlorofluoromethane      | NA    | BQL          | NS         | BQL        | BQL          |
| 1,1-Dichloroethene          | 7     | BQL          | NS         | BQL        | BQL          |
| Xylenes (Total)             | 10000 | BQL          | NS         | BQL        | BQL          |
| Vinyl chloride              | 2     | BQL          | NS         | BQL        | BQL          |

BQL - Below quantification level

MCL - Maximum Contaminant Level per EPD Rule Chapter 391-3-5; NA - None available

NS - Not sampled; well dry

<sup>1</sup>Metals concentrations in mg/L or ppm

<sup>2</sup>Organics concentrations in ug/l or ppb

**Bold** indicates detected concentration is greater than the MCL.



**Table 6 (continued)**  
**Southern Nuclear Operating Company Plant Vogtle Landfill #2**  
**Summary of Detected Parameters**  
**December 2002**

| CONSTITUENT                 | MCL   | WELL SAMPLES |            |            |                         |              |
|-----------------------------|-------|--------------|------------|------------|-------------------------|--------------|
|                             |       | GWA-2/MW-2   | GWC-3/MW-3 | GWB-4/MW-4 | GWB-4/MW-4 <sup>3</sup> | GWC-11/MW-11 |
| <b>Metals<sup>1</sup></b>   |       |              |            |            |                         |              |
| Barium                      | 2.00  | 0.015        | 0.020      | 0.021      | 0.020                   | 0.018        |
| Zinc                        | NA    | BQL          | 0.047      | BQL        | BQL                     | BQL          |
| <b>Organics<sup>2</sup></b> |       |              |            |            |                         |              |
| 1,1-Dichloroethane          | NA    | BQL          | BQL        | BQL        | BQL                     | BQL          |
| Chlorobenzene               | 100   | BQL          | BQL        | BQL        | BQL                     | BQL          |
| 1,4-Dicholorbenzene         | 75    | BQL          | BQL        | BQL        | BQL                     | BQL          |
| Methylene chloride          | 5     | BQL          | BQL        | BQL        | BQL                     | BQL          |
| cis-1,2-Dichloroethene      | 70    | BQL          | BQL        | BQL        | BQL                     | BQL          |
| Trichlorofluoromethane      | NA    | BQL          | BQL        | BQL        | BQL                     | BQL          |
| 1,1-Dichloroethene          | 7     | BQL          | BQL        | BQL        | BQL                     | BQL          |
| Xylenes (Total)             | 10000 | BQL          | BQL        | BQL        | BQL                     | BQL          |
| Vinyl chloride              | 2     | BQL          | BQL        | BQL        | BQL                     | BQL          |

BQL - Below quantification level

MCL - Maximum Contaminant Level per EPD Rule Chapter 391-3-5; NA - None available

NS - Not sampled; well dry

<sup>1</sup>Metals concentrations in mg/L or ppm

<sup>2</sup>Organics concentrations in ug/l or ppb

**Bold** indicates detected concentration is greater than the MCL.

**Table 6 (continued)**  
**Southern Nuclear Operating Company Plant Vogtle Landfill #2**  
**Summary of Detected Parameters**  
**October 2002**

| CONSTITUENT                 | MCL   | WELL SAMPLES |                         |            |              |
|-----------------------------|-------|--------------|-------------------------|------------|--------------|
|                             |       | GWA-2/MW-2   | GWC-3/MW-3 <sup>3</sup> | GWB-4/MW-4 | GWC-11/MW-11 |
| <b>Metals<sup>1</sup></b>   |       |              |                         |            |              |
| Barium                      | 2     | BQL          | NS                      | 0.021      | 0.025        |
| Zinc                        | NA    | BQL          | NS                      | BQL        | BQL          |
| <b>Organics<sup>2</sup></b> |       |              |                         |            |              |
| 1,1-Dichloroethane          | NA    | BQL          | NS                      | BQL        | BQL          |
| Chlorobenzene               | 100   | BQL          | NS                      | BQL        | BQL          |
| 1,4-Dichlorobenzene         | 75    | BQL          | NS                      | BQL        | BQL          |
| Methylene chloride          | 5     | BQL          | NS                      | BQL        | BQL          |
| cis-1,2-Dichloroethene      | 70    | BQL          | NS                      | BQL        | BQL          |
| Trichlorofluoromethane      | NA    | BQL          | NS                      | BQL        | BQL          |
| 1,1-Dichloroethene          | 7     | BQL          | NS                      | BQL        | BQL          |
| Xylenes (Total)             | 10000 | BQL          | NS                      | BQL        | BQL          |
| Vinyl chloride              | 2     | BQL          | NS                      | BQL        | BQL          |

BQL - Below quantification level

MCL - Maximum Contaminant Level per EPD Rule Chapter 391-3-5; NA - None available

NS - Not sampled; well dry

<sup>1</sup>Metals concentrations in mg/L or ppm

<sup>2</sup>Organics concentrations in ug/l or ppb

**Bold** indicates detected concentration is greater than the MCL.

**Table 6 (continued)**  
**Southern Nuclear Operating Company Plant Vogtle Landfill #2**  
**Summary of Detected Parameters**  
**September 2002**

| CONSTITUENT                 | MCL   | WELL SAMPLES |            |            |              |
|-----------------------------|-------|--------------|------------|------------|--------------|
|                             |       | GWA-2/MW-2   | GWC-3/MW-3 | GWB-4/MW-4 | GWC-11/MW-11 |
| <b>Metals<sup>1</sup></b>   |       |              |            |            |              |
| Barium                      | 2     | BQL          | BQL        | 0.021      | 0.020        |
| Zinc                        | NA    | BQL          | BQL        | BQL        | BQL          |
| <b>Organics<sup>2</sup></b> |       |              |            |            |              |
| 1,1-Dichloroethane          | NA    | BQL          | BQL        | BQL        | BQL          |
| Chlorobenzene               | 100   | BQL          | BQL        | BQL        | BQL          |
| 1,4-Dichlorobenzene         | 75    | BQL          | BQL        | BQL        | BQL          |
| Methylene chloride          | 5     | BQL          | BQL        | BQL        | BQL          |
| cis-1,2-Dichloroethene      | 70    | BQL          | BQL        | BQL        | BQL          |
| Trichlorofluoromethane      | NA    | BQL          | BQL        | BQL        | BQL          |
| 1,1-Dichloroethene          | 7     | BQL          | BQL        | BQL        | BQL          |
| Xylenes (Total)             | 10000 | BQL          | BQL        | BQL        | BQL          |
| Vinyl chloride              | 2     | BQL          | BQL        | BQL        | BQL          |

BQL - Below quantification level

MCL - Maximum Contaminant Level per EPD Rule Chapter 391-3-5; NA - None available

NS - Not sampled; well dry

<sup>1</sup>Metals concentrations in mg/L or ppm

<sup>2</sup>Organics concentrations in ug/l or ppb

**Bold** indicates detected c Indicates exceedance of MCL

**Table 6 (Continued)**  
**Southern Nuclear Operating Company Plant Vogtle Landfill #2**  
**Summary of Detected Parameters**  
**July 2002**

| CONSTITUENT                 | MCL   | WELL SAMPLES |            |            |              |
|-----------------------------|-------|--------------|------------|------------|--------------|
|                             |       | GWA-2/MW-2   | GWC-3/MW-3 | GWB-4/MW-4 | GWC-11/MW-11 |
| <b>Metals<sup>1</sup></b>   |       |              |            |            |              |
| Barium                      | 2     | 0.027        | BQL        | 0.021      | 0.085        |
| Zinc                        | NA    | BQL          | BQL        | BQL        | 0.034        |
| <b>Organics<sup>2</sup></b> |       |              |            |            |              |
| 1,1-Dichloroethane          | NA    | BQL          | BQL        | BQL        | BQL          |
| Chlorobenzene               | 100   | BQL          | BQL        | BQL        | BQL          |
| 1,4-Dichlorobenzene         | 75    | BQL          | BQL        | BQL        | BQL          |
| Methylene chloride          | 5     | BQL          | <b>6</b>   | <b>6</b>   | BQL          |
| cis-1,2-Dichloroethene      | 70    | BQL          | BQL        | BQL        | BQL          |
| Trichlorofluoromethane      | NA    | BQL          | BQL        | 5          | BQL          |
| 1,1-Dichloroethene          | 7     | BQL          | BQL        | BQL        | BQL          |
| Xylenes (Total)             | 10000 | BQL          | BQL        | BQL        | BQL          |
| Vinyl chloride              | 2     | BQL          | BQL        | BQL        | BQL          |

BQL - Below quantification level

MCL - Maximum Contaminant Level per EPD Rule Chapter 391-3-5; NA - None available

NS - Not sampled; well dry

<sup>1</sup>Metals concentrations in mg/L or ppm

<sup>2</sup>Organics concentrations in ug/l or ppb

**Bold** indicates detected < Indicates exceedance of MCL

**Table 7**  
**Southern Nuclear Operating Company Plant Vogtle Landfill #3**  
**Summary of Detected Parameters**  
**June 2004**

| CONSTITUENT                 | MCL                | WELL SAMPLES |            |            |              |                           |              |              |
|-----------------------------|--------------------|--------------|------------|------------|--------------|---------------------------|--------------|--------------|
|                             |                    | GWC-5/MW-5   | GWB-6/MW-6 | GWA-7/MW-7 | GWC-13/MW-13 | GWC-13/MW-13 <sup>5</sup> | GWC-14/MW-14 | GWA-15/MW-15 |
| <b>Metals<sup>1</sup></b>   |                    |              |            |            |              |                           |              |              |
| Barium                      | 2.00               | 0.040        | BQL        | BQL        | 0.034        | 0.034                     | NA           | BQL          |
| Zinc                        | NA                 | BQL          | BQL        | BQL        | BQL          | BQL                       | NA           | BQL          |
| Copper                      | 1.3 <sup>6</sup>   | BQL          | BQL        | BQL        | BQL          | BQL                       | NA           | BQL          |
| Mercury <sup>4</sup>        | 0.002              | BQL          | BQL        | 0.0006     | BQL          | BQL                       | NA           | BQL          |
| Chromium (total)            | 0.1                | BQL          | BQL        | BQL        | BQL          | BQL                       | NA           | BQL          |
| Beryllium                   | 0.004              | BQL          | BQL        | BQL        | BQL          | BQL                       | NA           | BQL          |
| Cadmium                     | 0.005              | BQL          | BQL        | BQL        | BQL          | BQL                       | NA           | BQL          |
| Nickel                      | NA                 | BQL          | BQL        | BQL        | BQL          | BQL                       | NA           | BQL          |
| Lead                        | 0.015 <sup>6</sup> | BQL          | BQL        | BQL        | BQL          | BQL                       | NA           | BQL          |
| Vanadium                    | NA                 | BQL          | BQL        | BQL        | BQL          | BQL                       | NA           | BQL          |
| <b>Organics<sup>2</sup></b> |                    |              |            |            |              |                           |              |              |
| 1,1-Dichloroethane          | NA                 | BQL          | BQL        | BQL        | 17           | 19                        | NA           | BQL          |
| Chlorobenzene               | 100                | BQL          | BQL        | BQL        | BQL          | BQL                       | NA           | BQL          |
| 1,4-Dichlorobenzene         | 75                 | BQL          | BQL        | BQL        | BQL          | BQL                       | NA           | BQL          |
| Methylene chloride          | 5                  | BQL          | BQL        | BQL        | BQL          | BQL                       | NA           | BQL          |
| cis-1,2-Dichloroethene      | 70                 | BQL          | BQL        | BQL        | 9            | 10                        | NA           | BQL          |
| Trichlorofluoromethane      | NA                 | BQL          | BQL        | 46         | 121          | 133                       | NA           | BQL          |
| 1,1-Dichloroethene          | 7                  | BQL          | BQL        | BQL        | BQL          | BQL                       | NA           | BQL          |
| Xylenes (Total)             | 10000              | BQL          | BQL        | BQL        | BQL          | BQL                       | NA           | BQL          |
| Vinyl chloride              | 2                  | BQL          | BQL        | BQL        | 2            | 2                         | NA           | BQL          |
| Chloroform <sup>3</sup>     | 0.1                | BQL          | BQL        | BQL        | BQL          | BQL                       | NA           | BQL          |
| Trichloroethene             | 5                  | BQL          | BQL        | 13         | BQL          | BQL                       | NA           | BQL          |

BQL - Below quantification level

MCL - Maximum Contaminant Level per EPD Rule Chapter 391-3-5; NA - None Available or Not Analyzed

<sup>1</sup>Metals concentrations in mg/L

<sup>2</sup>Organics concentration units in ug/l or ppb

<sup>3</sup>Applies only to Community Water Systems serving 10,000

<sup>4</sup>Appendix II parameter; NA reflects that this parameter was not analyzed for those wells not included in the Assessment Monitoring Program

<sup>5</sup>Replicate sample of well GWC-13/MW-13 sample

<sup>6</sup>Action Level

**Bold** indicates detected concentration is greater than the MCL.

**Table 7 (continued)**  
**Southern Nuclear Operating Company Plant Vogtle Landfill #3**  
**Summary of Detected Parameters**  
**December 2003**

| CONSTITUENT                 | MCL                | WELL SAMPLES |            |            |              |                           |              |              |
|-----------------------------|--------------------|--------------|------------|------------|--------------|---------------------------|--------------|--------------|
|                             |                    | GWC-5/MW-5   | GWB-6/MW-6 | GWA-7/MW-7 | GWC-13/MW-13 | GWC-13/MW-13 <sup>5</sup> | GWC-14/MW-14 | GWA-15/MW-15 |
| <u>Metals<sup>1</sup></u>   |                    |              |            |            |              |                           |              |              |
| Barium                      | 2.00               | 0.142        | BQL        | BQL        | 0.033        | 0.032                     | 0.189        | BQL          |
| Zinc                        | NA                 | 0.032        | BQL        | 0.023      | BQL          | BQL                       | 0.127        | BQL          |
| Copper                      | 1.3 <sup>6</sup>   | 0.025        | BQL        | BQL        | BQL          | BQL                       | 0.026        | BQL          |
| Mercury <sup>4</sup>        | 0.002              | BQL          | BQL        | BQL        | BQL          | BQL                       | 0.01         | BQL          |
| Chromium (total)            | 0.1                | 0.028        | BQL        | BQL        | BQL          | BQL                       | 0.091        | BQL          |
| Beryllium                   | 0.004              | BQL          | BQL        | BQL        | BQL          | BQL                       | 0.004        | BQL          |
| Cadmium                     | 0.005              | BQL          | BQL        | BQL        | BQL          | BQL                       | 0.011        | BQL          |
| Nickel                      | NA                 | BQL          | BQL        | BQL        | BQL          | BQL                       | 0.034        | BQL          |
| Lead                        | 0.015 <sup>6</sup> | BQL          | BQL        | BQL        | BQL          | BQL                       | 0.015        | BQL          |
| Vanadium                    | NA                 | BQL          | BQL        | BQL        | BQL          | BQL                       | 0.060        | BQL          |
| <u>Organics<sup>2</sup></u> |                    |              |            |            |              |                           |              |              |
| 1,1-Dichloroethane          | NA                 | BQL          | BQL        | BQL        | 20           | 21                        | 10           | BQL          |
| Chlorobenzene               | 100                | BQL          | BQL        | BQL        | BQL          | BQL                       | 19           | BQL          |
| 1,4-Dicholorbenzene         | 75                 | BQL          | BQL        | BQL        | BQL          | BQL                       | 33           | BQL          |
| Methylene chloride          | 5                  | BQL          | BQL        | BQL        | BQL          | BQL                       | BQL          | BQL          |
| cis-1,2-Dichloroethene      | 70                 | BQL          | BQL        | BQL        | 14           | 14                        | 17           | BQL          |
| Trichlorofluoromethane      | NA                 | BQL          | BQL        | 34         | 102          | 97                        | BQL          | BQL          |
| 1,1-Dichloroethene          | 7                  | BQL          | BQL        | BQL        | BQL          | BQL                       | BQL          | BQL          |
| Xylenes (Total)             | 10000              | BQL          | BQL        | BQL        | BQL          | BQL                       | 10           | BQL          |
| Vinyl chloride              | 2                  | BQL          | BQL        | BQL        | BQL          | BQL                       | BQL          | BQL          |
| Chloroform <sup>3</sup>     | 0.1                | BQL          | BQL        | BQL        | BQL          | BQL                       | BQL          | BQL          |

BQL - Below quantification level

MCL - Maximum Contaminant Level per EPD Rule Chapter 391-3-5; NA - None Available or Not Analyzed

<sup>1</sup>Metals concentrations in mg/L

<sup>2</sup>Organics concentration units in ug/l or ppb

<sup>3</sup>Applies only to Community Water Systems serving 10,000

<sup>4</sup>Appendix II parameter; NA reflects that this parameter was not analyzed for those wells not included in the Assessment Monitoring Program

<sup>5</sup>Replicate sample of well GWC-13/MW-13 sample

<sup>6</sup>Action Level

**Bold** indicates detected concentration is greater than the MCL.

**Table 7 (continued)**  
**Southern Nuclear Operating Company Plant Vogtle Landfill #3**  
**Summary of Detected Parameters**  
**June 2003**

| CONSTITUENT                 | MCL   | WELL SAMPLES |            |            |              |                           |               |              |
|-----------------------------|-------|--------------|------------|------------|--------------|---------------------------|---------------|--------------|
|                             |       | GWC-5/MW-5   | GWB-6/MW-6 | GWA-7/MW-7 | GWC-13/MW-13 | GWC-13/MW-13 <sup>5</sup> | GWC-14/MW-14  | GWA-15/MW-15 |
| <b>Metals<sup>1</sup></b>   |       |              |            |            |              |                           |               |              |
| Barium                      | 2.00  | BQL          | BQL        | 0.036      | 0.029        | 0.030                     | 0.051         | BQL          |
| Zinc                        | NA    | BQL          | BQL        | 0.034      | BQL          | BQL                       | BQL           | BQL          |
| Copper                      | 1.3   | BQL          | BQL        | 0.035      | BQL          | BQL                       | BQL           | BQL          |
| Mercury <sup>4</sup>        | 0.002 | NA           | NA         | NA         | 0.0005       | 0.0005                    | <b>0.0072</b> | BQL          |
| <b>Organics<sup>2</sup></b> |       |              |            |            |              |                           |               |              |
| 1,1-Dichloroethane          | NA    | BQL          | BQL        | BQL        | 9            | 9                         | 10            | BQL          |
| Chlorobenzene               | 100   | BQL          | BQL        | BQL        | BQL          | BQL                       | 7             | BQL          |
| 1,4-Dichlorobenzene         | 75    | BQL          | BQL        | BQL        | BQL          | BQL                       | 16            | BQL          |
| Methylene chloride          | 5     | BQL          | BQL        | BQL        | BQL          | BQL                       | BQL           | BQL          |
| cis-1,2-Dichloroethene      | 70    | BQL          | BQL        | BQL        | 6            | 6                         | 10            | BQL          |
| Trichlorofluoromethane      | NA    | BQL          | BQL        | 23         | 41           | 47                        | 5             | BQL          |
| 1,1-Dichloroethene          | 7     | BQL          | BQL        | BQL        | BQL          | BQL                       | BQL           | BQL          |
| Xylenes (Total)             | 10000 | BQL          | BQL        | BQL        | BQL          | BQL                       | BQL           | BQL          |
| Vinyl chloride              | 2     | BQL          | BQL        | BQL        | BQL          | BQL                       | BQL           | BQL          |
| Chloroform <sup>3</sup>     | 0.1   | BQL          | BQL        | BQL        | BQL          | BQL                       | BQL           | BQL          |

BQL - Below quantification level

MCL - Maximum Contaminant Level per EPD Rule Chapter 391-3-5; NA - None Available or Not Analyzed

<sup>1</sup>Metals concentrations in mg/L

<sup>2</sup>Organics concentration units in ug/l or ppb

<sup>3</sup>Applies only to Community Water Systems serving 10,000

<sup>4</sup>Appendix II parameter; NA reflects that this parameter was not analyzed for those wells not included in the Assessment Monitoring Program

<sup>5</sup>Replicate sample of well GWC-13/MW-13 sample

**Bold** indicates detected concentration is greater than the MCL.

**Table 7 (continued)**  
**Southern Nuclear Operating Company Plant Vogtle Landfill #3**  
**Summary of Detected Parameters**  
**December 2002**

| CONSTITUENT                 | MCL   | WELL SAMPLES |            |            |              |              |              |
|-----------------------------|-------|--------------|------------|------------|--------------|--------------|--------------|
|                             |       | GWC-5/MW-5   | GWB-6/MW-6 | GWA-7/MW-7 | GWC-13/MW-13 | GWC-14/MW-14 | GWA-15/MW-15 |
| <b>Metals<sup>1</sup></b>   |       |              |            |            |              |              |              |
| Barium                      | 2.00  | 0.018        | BQL        | 0.015      | 0.082        | 0.106        | BQL          |
| Zinc                        | NA    | BQL          | BQL        | BQL        | 0.027        | BQL          | BQL          |
| <b>Organics<sup>2</sup></b> |       |              |            |            |              |              |              |
| 1,1-Dichloroethane          | NA    | BQL          | BQL        | BQL        | 7            | 16           | BQL          |
| Chlorobenzene               | 100   | BQL          | BQL        | BQL        | BQL          | 10           | BQL          |
| 1,4-Dichlorobenzene         | 75    | BQL          | BQL        | BQL        | BQL          | 39           | BQL          |
| Methylene chloride          | 5     | BQL          | BQL        | BQL        | BQL          | BQL          | BQL          |
| cis-1,2-Dichloroethene      | 70    | BQL          | BQL        | BQL        | BQL          | 19           | BQL          |
| Trichlorofluoromethane      | NA    | BQL          | BQL        | 210        | 391          | 27           | BQL          |
| 1,1-Dichloroethene          | 7     | BQL          | BQL        | BQL        | 11           | 24           | BQL          |
| Xylenes (Total)             | 10000 | BQL          | BQL        | BQL        | BQL          | 21           | BQL          |
| Vinyl chloride              | 2     | BQL          | BQL        | BQL        | BQL          | 4            | BQL          |
| Chloroform <sup>3</sup>     | 0.1   | BQL          | BQL        | BQL        | 5            | BQL          | BQL          |

BQL - Below quantification level

MCL - Maximum Contaminant Level per EPD Rule Chapter 391-3-5; NA - None available

<sup>1</sup>Metals concentrations in mg/L

<sup>2</sup>Organics concentration units in ug/l or ppb

<sup>3</sup>Applies only to Community Water Systems serving 10,000

**Bold indicates detected concentration is greater than the MCL.**



**Table 7 (continued)**  
**Southern Nuclear Operating Company Plant Vogtle Landfill #3**  
**Summary of Detected Parameters**  
**October 2002**

| CONSTITUENT                 | MCL   | WELL SAMPLES |            |            |              |              |              |                               |
|-----------------------------|-------|--------------|------------|------------|--------------|--------------|--------------|-------------------------------|
|                             |       | GWC-5/MW-5   | GWB-6/MW-6 | GWA-7/MW-7 | GWC-13/MW-13 | GWC-14/MW-14 | GWA-15/MW-15 | GWA-15-2/MW-15-2 <sup>3</sup> |
| <u>Metals<sup>1</sup></u>   |       |              |            |            |              |              |              |                               |
| Barium                      |       | BQL          | BQL        | BQL        | 0.083        | 0.064        | BQL          | BQL                           |
| Zinc                        |       | BQL          | BQL        | BQL        | 0.027        | BQL          | BQL          | BQL                           |
| <u>Organics<sup>2</sup></u> |       |              |            |            |              |              |              |                               |
| 1,1-Dichloroethane          | NA    | BQL          | BQL        | BQL        | 6            | 17           | BQL          | BQL                           |
| Chlorobenzene               | 100   | BQL          | BQL        | BQL        | BQL          | 9            | BQL          | BQL                           |
| 1,4-Dichlorobenzene         | 75    | BQL          | BQL        | BQL        | BQL          | 35           | BQL          | BQL                           |
| Methylene chloride          | 5     | BQL          | BQL        | BQL        | BQL          | 11           | BQL          | BQL                           |
| cis-1,2-Dichloroethene      | 70    | BQL          | BQL        | BQL        | BQL          | 16           | BQL          | BQL                           |
| Trichlorofluoromethane      | NA    | BQL          | BQL        | 221        | 348          | 31           | BQL          | BQL                           |
| 1,1-Dichloroethene          | 7     | BQL          | BQL        | BQL        | BQL          | BQL          | BQL          | BQL                           |
| Xylenes (Total)             | 10000 | BQL          | BQL        | BQL        | BQL          | 11           | BQL          | BQL                           |
| Vinyl chloride              | 2     | BQL          | BQL        | BQL        | BQL          | BQL          | BQL          | BQL                           |

BQL - Below quantification level

MCL - Maximum Contaminant Level per EPD Rule Chapter 391-3-5; NA - None available

<sup>1</sup>Metals concentrations in mg/L

<sup>2</sup>Organics concentration units in ug/l or ppb

<sup>3</sup>Replicate sample of GWA-15/MW-15 well

**Bold** indicates detected concentration is greater than the MCL.

**Table 7 (continued)**  
**Southern Nuclear Operating Company Plant Vogtle Landfill #3**  
**Summary of Detected Parameters**  
**September 2002**

| CONSTITUENT                 | MCL   | WELL SAMPLES |            |            |              |              |                               |              |
|-----------------------------|-------|--------------|------------|------------|--------------|--------------|-------------------------------|--------------|
|                             |       | GWC-5/MW-5   | GWB-6/MW-6 | GWA-7/MW-7 | GWC-13/MW-13 | GWC-14/MW-14 | GWC-14-2/MW-14-2 <sup>3</sup> | GWA-15/MW-15 |
| <u>Metals<sup>1</sup></u>   |       |              |            |            |              |              |                               |              |
| Barium                      | 2     | 0.020        | BQL        | BQL        | 0.085        | 0.092        | 0.095                         | BQL          |
| Zinc                        | NA    | BQL          | BQL        | BQL        | 0.023        | BQL          | BQL                           | BQL          |
| <u>Organics<sup>2</sup></u> |       |              |            |            |              |              |                               |              |
| 1,1-Dichloroethane          | NA    | BQL          | BQL        | BQL        | 6            | 21           | 21                            | BQL          |
| Chlorobenzene               | 100   | BQL          | BQL        | BQL        | BQL          | 8            | 8                             | BQL          |
| 1,4-Dichlorobenzene         | 75    | BQL          | BQL        | BQL        | BQL          | 37           | 36                            | BQL          |
| Methylene chloride          | 5     | BQL          | BQL        | BQL        | BQL          | BQL          | BQL                           | BQL          |
| cis-1,2-Dichloroethene      | 70    | BQL          | BQL        | BQL        | BQL          | 19           | 18                            | BQL          |
| Trichlorofluoromethane      | NA    | BQL          | BQL        | 32         | 381          | 47           | 48                            | BQL          |
| 1,1-Dichloroethene          | 7     | BQL          | BQL        | BQL        | 8            | 29           | 28                            | BQL          |
| Xylenes (Total)             | 10000 | BQL          | BQL        | BQL        | BQL          | 23           | 23                            | BQL          |
| Vinyl chloride              | 2     | BQL          | BQL        | BQL        | BQL          | BQL          | 3                             | BQL          |

BQL - Below quantification level

MCL - Maximum Contaminant Level per Georgia EPD Rule Chapter 391-3-5; NA - None available

<sup>1</sup>Metals concentrations in mg/L

<sup>2</sup>Organics concentration units in ug/l or ppb

<sup>3</sup>Replicate sample of GWB-14/MW-14 well sample

**Bold** indicates detected concentration is greater than the MCL.

**Table 7 (continued)**  
**Southern Nuclear Operating Company Plant Vogtle Landfill #3**  
**Summary of Detected Parameters**  
**July 2002**

| CONSTITUENT                 | MCL   | WELLS <sup>1</sup> |            |            |                             |              |              |              |
|-----------------------------|-------|--------------------|------------|------------|-----------------------------|--------------|--------------|--------------|
|                             |       | GWC-5/MW-5         | GWB-6/MW-6 | GWA-7/MW-7 | GWA-7-2/MW-7-2 <sup>3</sup> | GWC-13/MW-13 | GWC-14/MW-14 | GWA-15/MW-15 |
| <b>Metals<sup>1</sup></b>   |       |                    |            |            |                             |              |              |              |
| Barium                      | 2     | BQL                | BQL        | BQL        | BQL                         | 0.077        | 0.068        | BQL          |
| Zinc                        | NA    | BQL                | BQL        | BQL        | BQL                         | BQL          | BQL          | BQL          |
| <b>Organics<sup>2</sup></b> |       |                    |            |            |                             |              |              |              |
| 1,1-Dichloroethane          | NA    | BQL                | BQL        | BQL        | BQL                         | BQL          | 13           | BQL          |
| Chlorobenzene               | 100   | BQL                | BQL        | BQL        | BQL                         | BQL          | BQL          | BQL          |
| 1,4-Dichlorobenzene         | 75    | BQL                | BQL        | BQL        | BQL                         | BQL          | 20           | BQL          |
| Methylene chloride          | 5     | 9                  | 6          | 8          | 7                           | 8            | 8            | BQL          |
| cis-1,2-Dichloroethene      | 70    | BQL                | BQL        | BQL        | BQL                         | BQL          | 10           | BQL          |
| Trichlorofluoromethane      | NA    | BQL                | BQL        | 177        | 192                         | 300          | 43           | BQL          |
| 1,1-Dichloroethene          | 7     | BQL                | BQL        | BQL        | BQL                         | BQL          | BQL          | BQL          |
| Xylenes (Total)             | 10000 | BQL                | BQL        | BQL        | BQL                         | BQL          | 8            | BQL          |
| Vinyl chloride              | 2     | BQL                | BQL        | BQL        | BQL                         | BQL          | BQL          | BQL          |

BQL - Below quantification level

MCL - Maximum Contaminant Level per Georgia EPD Rule Chapter 391-3-5; NA - None available

<sup>1</sup>Metals concentrations in mg/L

<sup>2</sup>Organics concentration units in ug/l or ppb

<sup>3</sup>Replicate sample of GWA-7/MW-7 well sample

**Bold** indicates detected concentration is greater than the MCL.

## FIGURES

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Topographic map of the study area showing contour lines, buildings, and monitoring points. The map includes labels for 'STAFF TRAINING LEON RANG BUILDING', 'CLAYTONS', 'ACTIVATION/REMOVAL TRAINING', and several monitoring points: B-1, B-10, G-1, B-3, GWC-1/MW-11, GWC-4/MW-4, and GWC-2/MW-2. A scale bar at the bottom indicates 1:1000.



- 150 - EXISTING CONTOUR  
 - 250 - FINAL CONTOUR  
 - x - FENCE  
 M4.6 ② MATHAN WELL  
 GWA 2.072 ② GROUNDWATER MONITORING WELL  
 200 ② GROUNDWATER HYDRATION  
 ● WASTE MANAGEMENT UNIT BUFFER  
 B.R. ② ABANDONED SOIL BORING  
 300 - POTENTIAL CONTOUR CONTOUR AT 1 FT INTERVAL  
 201 - ESTIMATED CONTOUR  
 1 = 0.02 - GROUNDWATER GRADIENT  
 // - GROUNDWATER FLOW DIRECTION

100%



| SUBJECTS               | METHOD                |
|------------------------|-----------------------|
| 20 NEXT-STEP PIANO MEN | DIGITAL TAP-TANALYSIS |



THE DISTRICT COURT, LAC  
4665 LOWELL ROAD, SUITE 105  
MARTINE, ALBERTA, T0G 0A0

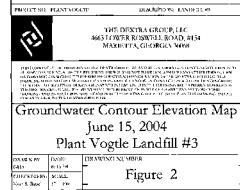
[illegible]

## June 15, 2004

Plant Voetlc. Landfill #2

|                   |                  |                        |
|-------------------|------------------|------------------------|
| GRAPH NO.<br>1311 | DATE<br>11-18-66 | DRAWING NUMBER<br>1311 |
|-------------------|------------------|------------------------|

Figure 1

— N 4540

# **APPENDIX A – HYDRAULIC GRADIENT CALCULATION SHEETS**

---

## **LANDFILL #2**

---



Gradient Calculation  
Plant Vogtle, Landfill #2

June 2004 Monitoring Event

| <u>Well Designation</u> | <u>Water Table Elevation</u> | <u>Northing</u> | <u>Easting</u> |
|-------------------------|------------------------------|-----------------|----------------|
| GWA-2/MW-2              | 209.82                       | 11755.95        | 9622.59        |
| GWC-3/MW-3              | 202.97                       | 12048.48        | 8881.72        |
| GWB-4/MW-4              | 202.94                       | 11205.40        | 9466.20        |

Southwest

Wells of Interest = (GWA-2, GWC-3 & GWB-4) (High-Mid-Low)

Gradient = 0.02

(EPA Web Site Calculation Page - See Attached Vogtle Landfill #2 Page)

10/6/2004



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## Gradient and Direction from Three Points

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### Hydraulic Gradient

**Gradient Calculation** from fitting a plane to three points

$$a x_1 + b y_1 + c = h_1$$

$$a x_2 + b y_2 + c = h_2$$

$$a x_3 + b y_3 + c = h_3$$

where  $(x_i, y_i)$  are the coordinates of the well and

$h_i$  is the head

$i = 1, 2, 3$

The gradient is calculated from the square root of  $(a^2 + b^2)$  and the angle from the arctangent of  $a/b$  or  $b/a$  depending on the quadrant

|   |  |   |  |
|---|--|---|--|
| <input type="button" value="Example Data Set 1"/> |  | <input type="button" value="Calculate"/>    | <input type="button" value="Clear"/>   |
| <input type="button" value="Save Data"/>          |  | <input type="button" value="Recall Data"/>  | <input type="button" value="Go Back"/> |
| Site Name   | <input type="text" value="Vogle Landfill #2"/> |   |  |
| Date  | <input type="text" value="June 2004"/>         | <input type="button" value="Current Date"/> |  |
| Calculation basis                                 | Head <input type="checkbox"/>                  |   |  |
| Coordinates                                       | ft <input type="checkbox"/>                    |   |  |

| x-coordinate                          | y-coordinate                         | head ft                             |
|---------------------------------------|--------------------------------------|-------------------------------------|
| <input type="text" value="11755.95"/> | <input type="text" value="9622.59"/> | <input type="text" value="209.82"/> |
| <input type="text" value="12048.48"/> | <input type="text" value="8881.72"/> | <input type="text" value="202.97"/> |
| <input type="text" value="11205.40"/> | <input type="text" value="9466.20"/> | <input type="text" value="202.94"/> |

Gradient Magnitude (i)

Degrees from North (+ y axis)

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## **LANDFILL #3**

---

Plant Vogtle, Landfill #3  
Gradient Calculation  
(based on three-point problem)  
June 2004 Monitoring Event

| <u>Well Designation</u> | <u>Water Table Elevation</u> | <u>Northing</u> | <u>Easting</u> |
|-------------------------|------------------------------|-----------------|----------------|
| GWC-5/MW-5              | 204.17                       | 9604.30         | 7999.33        |
| GWB-6/MW-6              | 232.38                       | 9432.48         | 7473.25        |
| GWA-7/MW-7              | 230.46                       | 8826.22         | 7657.89        |
| GWC-13/MW-13            | 233.49                       | 9242.72         | 7995.86        |
| GWC-14/MW-14            | 210.77                       | 8960.64         | 7999.10        |
| GWA-15/MW-15            | 224.91                       | 8975.71         | 6886.73        |

**Southwest**

Wells of Interest = (GWB-6, GWA-7 & GWA-15) (High-Mid-Low)

Gradient = 0.01

(EPA Web Site Calculation Page - See Attached Vogtle LF #3-SW Page)

**Northeast**

Wells of Interest = (GWC-13, GWB-6 & GWC-5) (High-Mid-Low)

Gradient = 0.08

(EPA Web Site Calculation Page - See Attached Vogtle LF #3-NE Page)

**Southeast**

Wells of Interest = (GWC-13, GWA-7 & GWC-14) (High-Mid-Low)

Gradient = 0.12

(EPA Web Site Calculation Page - See Attached Vogtle LF #3-SE Page)



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## Gradient and Direction from Three Points

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### Hydraulic Gradient

**Gradient Calculation** from fitting a plane to three points

$$a x_1 + b y_1 + c = h_1$$

$$a x_2 + b y_2 + c = h_2$$

$$a x_3 + b y_3 + c = h_3$$

where  $(x_i, y_i)$  are the coordinates of the well and

$h_i$  is the head

$i = 1, 2, 3$

The gradient is calculated from the square root of  $(a^2 + b^2)$  and the angle from the arctangent of  $a/b$  or  $b/a$  depending on the quadrant







Site Name

Date

Calculation basis

Coordinates

x-coordinate

y-coordinate

head










Gradient Magnitude (i)

Degrees from North (+ y axis)

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$$a x_2 + b y_2 + c = h_2$$

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where  $(x_i, y_i)$  are the coordinates of the well and

$h_i$  is the head

$$i = 1, 2, 3$$

The gradient is calculated from the square root of  $(a^2 + b^2)$  and the angle from the arctangent of  $a/b$  or  $b/a$  depending on the quadrant







Site Name

Date

Calculation basis

Coordinates

x-coordinate

y-coordinate

head










Gradient Magnitude (i)

Degrees from North (+ y axis)

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### Hydraulic Gradient

**Gradient Calculation** from fitting a plane to three points

$$a x_1 + b y_1 + c = h_1$$

$$a x_2 + b y_2 + c = h_2$$

$$a x_3 + b y_3 + c = h_3$$

where  $(x_i, y_i)$  are the coordinates of the well and  
 $h_i$  is the head

$i = 1, 2, 3$

The gradient is calculated from the square root of  $(a^2 + b^2)$  and the angle from the arctangent of  $a/b$  or  $b/a$  depending on the quadrant

|   |  |                     |                |
|---|--|---------------------|----------------|
| <b>Example Data Set 1</b>                                     |  | <b>Calculate</b>    | <b>Clear</b>   |
| <b>Save Data</b>  |  | <b>Recall Data</b>  | <b>Go Back</b> |
| Site Name <input type="text" value="Vogle Landfill #3 - SE"/> |  | <b>Current Date</b> |                |
| Date <input type="text" value="June 2004"/>                   |  |                     |                |
| Calculation basis <input type="text" value="Head"/>           |  |                     |                |
| Coordinates <input type="text" value="ft"/>                   |  |                     |                |

| x-coordinate                         | y-coordinate                         | head ft                             |
|--------------------------------------|--------------------------------------|-------------------------------------|
| <input type="text" value="9242.72"/> | <input type="text" value="7995.86"/> | <input type="text" value="233.49"/> |
| <input type="text" value="8826.22"/> | <input type="text" value="7657.89"/> | <input type="text" value="230.46"/> |
| <input type="text" value="8960.64"/> | <input type="text" value="7999.10"/> | <input type="text" value="210.77"/> |

Gradient Magnitude (i)

Degrees from North (+ y axis)

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**APPENDIX B – LABORATORY ANALYTICAL REPORTS**  
**JUNE 2004**

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[www.advancedchemistrylabs.com](http://www.advancedchemistrylabs.com)

## Laboratory Report

**ACL Project #: 45348**

**Client Proj #: VOGTLE**

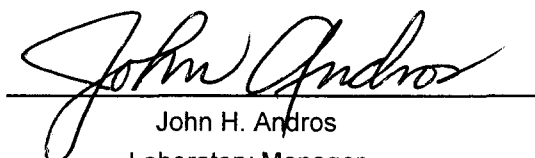
**Prepared For:**

The Dextra Group, LLC  
4665 Lower Roswell Road  
#154  
Marietta, GA 30068-0000

**Attention:** Mr. Kurt Batsel

**Report Date:** 7/26/2004

**This report contains 87 pages.**  
(including this cover page and chain of custody)



John H. Andros  
Laboratory Manager

***Advanced Chemistry Labs is a woman owned small business concern.***

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ACL is accredited by the National Environmental Laboratory Accreditation Program (NELAP).

ACL maintains the following certifications: NELAC (E87212), South Carolina (98009001), North Carolina (362), Florida (E87212), USDA Soil Import License (S-36503).

### **Data Qualifier Codes**

| <b><u>Code</u></b> | <b><u>Description</u></b>  |
|--------------------|--|
| <b>A</b>           | Value reported is the mean of two or more determinations;  |
| <b>B</b>           | Indicates the analyte was detected in the sample and method blank;   |
| <b>BQL</b>         | Below practical quantitation limit;  |
| <b>DW</b>          | Results reported on a dry-weight basis (ex: mg/kg,dw);   |
| <b>E</b>           | Estimated value; sample received or analyzed beyond the accepted<br>holding time; sample received at improper temperature; |
| <b>H</b>           | Estimated value; result higher than the highest calibration standard;  |
| <b>J</b>           | Reported value is between the method detection limit and the<br>practical quantitation limit;                              |
| <b>PQL</b>         | Practical quantitation limit;  |
| <b>TIC</b>         | Tentatively identified compound;   |
| <b>***</b>         | Not analyzed due to interferences;   |

**NOTE: Unless otherwise noted, all results are reported on an as received basis.**

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Fax: (770) 409-1844  
e-mail: acl@acl-labs.net

3039 Amwiler Road • Suite 100 • Atlanta, GA 30360  
P.O. Box 88610 • Atlanta, GA 30356  
www.advancedchemistrylabs.com

**Client:** The Dextra Group, LLC  
4665 Lower Roswell Road  
#154  
Marietta, GA 30068-0000

**Client Proj #:** VOGTLE  
**ACL Project #:** 45348  
**Date Received:** 06/18/2004  
**Date Reported:** 07/26/2004

**Contact:** Mr. Kurt Batsel

**V.O. (5030B/8260B) - Appendix I**

**Sample ID:** GWC5/MW-5

**Matrix:** Water

**Date Sampled:** 06/16/2004

**Date Extracted:**

**Date Analyzed:** 06/24/2004

**ACL Sample #:** 216846 **Units:** µg/L

**Analyst:** RP

| <u>Analyte</u>              | <u>Result</u> | <u>PQL</u> | <u>Analyte</u>            | <u>Result</u> | <u>PQL</u> |
|-----------------------------|---------------|------------|---------------------------|---------------|------------|
| Acetone                     | BQL           | 100        | Styrene                   | BQL           | 5          |
| Acrylonitrile               | BQL           | 50         | 1,1,1,2-Tetrachloroethane | BQL           | 5          |
| Benzene                     | BQL           | 5          | 1,1,2,2-Tetrachloroethane | BQL           | 5          |
| Bromochloromethane          | BQL           | 5          | Tetrachloroethene         | BQL           | 5          |
| Bromodichloromethane        | BQL           | 5          | Toluene                   | BQL           | 5          |
| Bromoform                   | BQL           | 5          | 1,1,1-Trichloroethane     | BQL           | 5          |
| Carbon disulfide            | BQL           | 5          | 1,1,2-Trichloroethane     | BQL           | 5          |
| Carbon tetrachloride        | BQL           | 5          | Trichloroethene           | BQL           | 5          |
| Chlorobenzene               | BQL           | 5          | Trichlorofluoromethane    | BQL           | 5          |
| Chloroethane                | BQL           | 10         | 1,2,3-Trichloropropane    | BQL           | 5          |
| Chloroform                  | BQL           | 5          | Vinyl acetate             | BQL           | 50         |
| 1,2-Dibromo-3-chloropropane | BQL           | 20         | Vinyl chloride            | BQL           | 2          |
| Dibromochloromethane        | BQL           | 5          | m & p-Xylenes             | BQL           | 10         |
| 1,2-Dibromoethane           | BQL           | 5          | o-Xylene                  | BQL           | 5          |
| trans-1,4-Dichloro-2-butene | BQL           | 10         |                           |               |            |
| 1,2-Dichlorobenzene         | BQL           | 5          |                           |               |            |
| 1,4-Dichlorobenzene         | BQL           | 5          |                           |               |            |
| 1,1-Dichloroethane          | BQL           | 5          |                           |               |            |
| 1,2-Dichloroethane          | BQL           | 5          |                           |               |            |
| 1,1-Dichloroethene          | BQL           | 5          |                           |               |            |
| cis-1,2-Dichloroethene      | BQL           | 5          |                           |               |            |
| trans-1,2-Dichloroethene    | BQL           | 5          |                           |               |            |
| 1,2-Dichloropropane         | BQL           | 5          |                           |               |            |
| cis-1,3-Dichloropropene     | BQL           | 5          |                           |               |            |
| trans-1,3-Dichloropropene   | BQL           | 5          |                           |               |            |
| Ethylbenzene                | BQL           | 5          |                           |               |            |
| 2-Hexanone                  | BQL           | 50         |                           |               |            |
| Methyl bromide              | BQL           | 10         |                           |               |            |
| Methyl chloride             | BQL           | 10         |                           |               |            |
| Methyl ethyl ketone         | BQL           | 100        |                           |               |            |
| Methyl iodide               | BQL           | 5          |                           |               |            |
| 4-Methyl-2-pentanone        | BQL           | 50         |                           |               |            |
| Methylene bromide           | BQL           | 5          |                           |               |            |
| Methylene chloride          | BQL           | 5          |                           |               |            |

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**Client Proj #:** VOGTLE  
**ACL Project #:** 45348  
**Date Received:** 06/18/2004  
**Date Reported:** 07/26/2004

**Contact:** Mr. Kurt Batsel

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**Miscellaneous Organics (8011) - Appendix II**

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**Sample ID:** GWC5/MW-5

**Matrix:** Water

**Date Sampled:** 06/16/2004

**Date Extracted:** 06/22/2004

**Date Analyzed:** 06/25/2004

**ACL Sample #:** 216846      **Units:** µg/L

**Analyst:** SS

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| <u>Analyte</u>              | <u>Result</u> | <u>PQL</u> |
|-----------------------------|---------------|------------|
| 1,2-Dibromo-3-chloropropane | BQL           | 0.20       |
| 1,2-Dibromoethane           | BQL           | 0.05       |

---



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**Client Proj #:** VOGTLE  
**ACL Project #:** 45348  
**Date Received:** 06/18/2004  
**Date Reported:** 07/26/2004

**Contact:** Mr. Kurt Batsel

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**Appendix I Metals (6010B/7841)**

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**Sample ID:** GWC5/MW-5

**Matrix:** Water  
**Date Sampled:** 06/16/2004  
**Date Extracted:**  
**Date Analyzed:** 06/22/2004  
**Analyst:** SW/AD

**ACL Sample #:** 216846      **Units:** mg/L

| <u>Analyte</u> | <u>Result</u> | <u>PQL</u> |
|----------------|---------------|------------|
| Antimony       | BQL           | 0.006      |
| Arsenic        | BQL           | 0.010      |
| Barium         | 0.040         | 0.020      |
| Beryllium      | BQL           | 0.004      |
| Cadmium        | BQL           | 0.005      |
| Chromium       | BQL           | 0.020      |
| Cobalt         | BQL           | 0.050      |
| Copper         | BQL           | 0.020      |
| Lead           | BQL           | 0.010      |
| Nickel         | BQL           | 0.020      |
| Selenium       | BQL           | 0.040      |
| Silver         | BQL           | 0.010      |
| Thallium       | BQL           | 0.002      |
| Vanadium       | BQL           | 0.050      |
| Zinc           | BQL           | 0.020      |

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**ACL Project #:** 45348  
**Date Received:** 06/18/2004  
**Date Reported:** 07/26/2004

**Contact:** Mr. Kurt Batsel

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| <u>Sample ID</u> | <u>ACL #</u> | <u>Analyte</u>  | <u>Matrix</u> | <u>Result</u> | <u>PQL</u> | <u>Units</u> | <u>Date Analyzed</u> |
|------------------|--------------|-----------------|---------------|---------------|------------|--------------|----------------------|
| GWC5/MW-5        | 216846       | Mercury (7470A) | Water         | BQL           | 0.0005     | mg/L         | 06/22/2004           |

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**ACL Project #:** 45348  
**Date Received:** 06/18/2004  
**Date Reported:** 07/26/2004

**Contact:** Mr. Kurt Batsel

---

**V.O. (5030B/8260B) - Appendix I**

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**Sample ID:** GWB-6/MW-6

**Matrix:** Water

**Date Sampled:** 06/16/2004

**Date Extracted:**

**Date Analyzed:** 06/24/2004

**ACL Sample #:** 216847 **Units:** µg/L

**Analyst:** RP

| <u>Analyte</u>              | <u>Result</u> | <u>PQL</u> | <u>Analyte</u>            | <u>Result</u> | <u>PQL</u> |
|-----------------------------|---------------|------------|---------------------------|---------------|------------|
| Acetone                     | BQL           | 100        | Styrene                   | BQL           | 5          |
| Acrylonitrile               | BQL           | 50         | 1,1,1,2-Tetrachloroethane | BQL           | 5          |
| Benzene                     | BQL           | 5          | 1,1,2,2-Tetrachloroethane | BQL           | 5          |
| Bromochloromethane          | BQL           | 5          | Tetrachloroethene         | BQL           | 5          |
| Bromodichloromethane        | BQL           | 5          | Toluene                   | BQL           | 5          |
| Chloroform                  | BQL           | 5          | 1,1,1-Trichloroethane     | BQL           | 5          |
| Carbon disulfide            | BQL           | 5          | 1,1,2-Trichloroethane     | BQL           | 5          |
| Carbon tetrachloride        | BQL           | 5          | Trichloroethene           | BQL           | 5          |
| Chlorobenzene               | BQL           | 5          | Trichlorofluoromethane    | BQL           | 5          |
| Chloroethane                | BQL           | 10         | 1,2,3-Trichloropropane    | BQL           | 5          |
| Chloroform                  | BQL           | 5          | Vinyl acetate             | BQL           | 50         |
| 1,2-Dibromo-3-chloropropane | BQL           | 20         | Vinyl chloride            | BQL           | 2          |
| Dibromochloromethane        | BQL           | 5          | m & p-Xylenes             | BQL           | 10         |
| 1,2-Dibromoethane           | BQL           | 5          | o-Xylene                  | BQL           | 5          |
| trans-1,4-Dichloro-2-butene | BQL           | 10         |                           |               |            |
| 1,2-Dichlorobenzene         | BQL           | 5          |                           |               |            |
| 1,4-Dichlorobenzene         | BQL           | 5          |                           |               |            |
| 1,1-Dichloroethane          | BQL           | 5          |                           |               |            |
| 1,2-Dichloroethane          | BQL           | 5          |                           |               |            |
| 1,1-Dichloroethene          | BQL           | 5          |                           |               |            |
| cis-1,2-Dichloroethene      | BQL           | 5          |                           |               |            |
| trans-1,2-Dichloroethene    | BQL           | 5          |                           |               |            |
| 1,2-Dichloropropane         | BQL           | 5          |                           |               |            |
| cis-1,3-Dichloropropene     | BQL           | 5          |                           |               |            |
| trans-1,3-Dichloropropene   | BQL           | 5          |                           |               |            |
| Ethylbenzene                | BQL           | 5          |                           |               |            |
| 2-Hexanone                  | BQL           | 50         |                           |               |            |
| Methyl bromide              | BQL           | 10         |                           |               |            |
| Methyl chloride             | BQL           | 10         |                           |               |            |
| Methyl ethyl ketone         | BQL           | 100        |                           |               |            |
| Methyl iodide               | BQL           | 5          |                           |               |            |
| 4-Methyl-2-pentanone        | BQL           | 50         |                           |               |            |
| Methylene bromide           | BQL           | 5          |                           |               |            |
| Methylene chloride          | BQL           | 5          |                           |               |            |

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**Client Proj #:** VOGTLE  
**ACL Project #:** 45348  
**Date Received:** 06/18/2004  
**Date Reported:** 07/26/2004

**Contact:** Mr. Kurt Batsel

---

**Miscellaneous Organics (8011) - Appendix II**

---

**Sample ID:** GWB-6/MW-6

**Matrix:** Water

**Date Sampled:** 06/16/2004

**Date Extracted:** 06/22/2004

**Date Analyzed:** 06/25/2004

**ACL Sample #:** 216847      **Units:** µg/L

**Analyst:** SS

---

| <u>Analyte</u>              | <u>Result</u> | <u>PQL</u> |
|-----------------------------|---------------|------------|
| 1,2-Dibromo-3-chloropropane | BQL           | 0.20       |
| 1,2-Dibromoethane           | BQL           | 0.05       |

---

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**Client Proj #:** VOGTLE  
**ACL Project #:** 45348  
**Date Received:** 06/18/2004  
**Date Reported:** 07/26/2004

**Contact:** Mr. Kurt Batsel

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**Appendix I Metals (6010B/7841)**

---

**Sample ID:** GWB-6/MW-6

**Matrix:** Water  
**Date Sampled:** 06/16/2004  
**Date Extracted:**  
**Date Analyzed:** 06/22/2004  
**Analyst:** SW/AD

**ACL Sample #:** 216847      **Units:** mg/L

---

| <u>Analyte</u> | <u>Result</u> | <u>PQL</u> |
|----------------|---------------|------------|
| Antimony       | BQL           | 0.006      |
| Arsenic        | BQL           | 0.010      |
| Barium         | BQL           | 0.020      |
| Beryllium      | BQL           | 0.004      |
| Cadmium        | BQL           | 0.005      |
| Chromium       | BQL           | 0.020      |
| Cobalt         | BQL           | 0.050      |
| Copper         | BQL           | 0.020      |
| Lead           | BQL           | 0.010      |
| Nickel         | BQL           | 0.020      |
| Selenium       | BQL           | 0.040      |
| Silver         | BQL           | 0.010      |
| Thallium       | BQL           | 0.002      |
| Vanadium       | BQL           | 0.050      |
| Zinc           | BQL           | 0.020      |

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**Client Proj #:** VOGTLE  
**ACL Project #:** 45348  
**Date Received:** 06/18/2004  
**Date Reported:** 07/26/2004

**Contact:** Mr. Kurt Batsel

---

| <u>Sample ID</u> | <u>ACL #</u> | <u>Analyte</u>  | <u>Matrix</u> | <u>Result</u> | <u>PQL</u> | <u>Units</u> | <u>Date Analyzed</u> |
|------------------|--------------|-----------------|---------------|---------------|------------|--------------|----------------------|
| GWB-6/MW-6       | 216847       | Mercury (7470A) | Water         | BQL           | 0.0005     | mg/L         | 06/22/2004           |

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**ACL Project #:** 45348  
**Date Received:** 06/18/2004  
**Date Reported:** 07/26/2004

**Contact:** Mr. Kurt Batsel

---

**V.O. (5030B/8260B) - Appendix I**

---

**Sample ID:** GWA-7/MW-7

**Matrix:** Water  
**Date Sampled:** 06/15/2004  
**Date Extracted:**  
**Date Analyzed:** 06/24/2004  
**Analyst:** RP

**ACL Sample #:** 216848      **Units:** µg/L

| <u>Analyte</u>              | <u>Result</u> | <u>PQL</u> | <u>Analyte</u>            | <u>Result</u> | <u>PQL</u> |
|-----------------------------|---------------|------------|---------------------------|---------------|------------|
| Acetone                     | BQL           | 100        | Styrene                   | BQL           | 5          |
| Acrylonitrile               | BQL           | 50         | 1,1,1,2-Tetrachloroethane | BQL           | 5          |
| Benzene                     | BQL           | 5          | 1,1,2,2-Tetrachloroethane | BQL           | 5          |
| Bromochloromethane          | BQL           | 5          | Tetrachloroethene         | BQL           | 5          |
| Bromodichloromethane        | BQL           | 5          | Toluene                   | BQL           | 5          |
| Bromoform                   | BQL           | 5          | 1,1,1-Trichloroethane     | BQL           | 5          |
| Carbon disulfide            | BQL           | 5          | 1,1,2-Trichloroethane     | BQL           | 5          |
| Carbon tetrachloride        | BQL           | 5          | Trichloroethene           | 13            | 5          |
| Chlorobenzene               | BQL           | 5          | Trichlorofluoromethane    | 46            | 5          |
| Chloroethane                | BQL           | 10         | 1,2,3-Trichloropropane    | BQL           | 5          |
| Chloroform                  | BQL           | 5          | Vinyl acetate             | BQL           | 50         |
| 1,2-Dibromo-3-chloropropane | BQL           | 20         | Vinyl chloride            | BQL           | 2          |
| Dibromochloromethane        | BQL           | 5          | m & p-Xylenes             | BQL           | 10         |
| 1,2-Dibromoethane           | BQL           | 5          | o-Xylene                  | BQL           | 5          |
| trans-1,4-Dichloro-2-butene | BQL           | 10         |                           |               |            |
| 1,2-Dichlorobenzene         | BQL           | 5          |                           |               |            |
| 1,4-Dichlorobenzene         | BQL           | 5          |                           |               |            |
| 1,1-Dichloroethane          | BQL           | 5          |                           |               |            |
| 1,2-Dichloroethane          | BQL           | 5          |                           |               |            |
| 1,1-Dichloroethene          | BQL           | 5          |                           |               |            |
| cis-1,2-Dichloroethene      | BQL           | 5          |                           |               |            |
| trans-1,2-Dichloroethene    | BQL           | 5          |                           |               |            |
| 1,2-Dichloropropane         | BQL           | 5          |                           |               |            |
| cis-1,3-Dichloropropene     | BQL           | 5          |                           |               |            |
| trans-1,3-Dichloropropene   | BQL           | 5          |                           |               |            |
| Ethylbenzene                | BQL           | 5          |                           |               |            |
| 2-Hexanone                  | BQL           | 50         |                           |               |            |
| Methyl bromide              | BQL           | 10         |                           |               |            |
| Methyl chloride             | BQL           | 10         |                           |               |            |
| Methyl ethyl ketone         | BQL           | 100        |                           |               |            |
| Methyl iodide               | BQL           | 5          |                           |               |            |
| 4-Methyl-2-pentanone        | BQL           | 50         |                           |               |            |
| Methylene bromide           | BQL           | 5          |                           |               |            |
| Methylene chloride          | BQL           | 5          |                           |               |            |

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**Date Received:** 06/18/2004  
**Date Reported:** 07/26/2004

**Contact:** Mr. Kurt Batsel

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**Miscellaneous Organics (8011) - Appendix II**

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**Sample ID:** GWA-7/MW-7

**Matrix:** Water

**Date Sampled:** 06/15/2004

**Date Extracted:** 06/22/2004

**Date Analyzed:** 06/25/2004

**ACL Sample #:** 216848      **Units:** µg/L

**Analyst:** SS

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| <u>Analyte</u>              | <u>Result</u> | <u>PQL</u> |
|-----------------------------|---------------|------------|
| 1,2-Dibromo-3-chloropropane | BQL           | 0.20       |
| 1,2-Dibromoethane           | BQL           | 0.05       |

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**Client Proj #:** VOGTLE  
**ACL Project #:** 45348  
**Date Received:** 06/18/2004  
**Date Reported:** 07/26/2004

**Contact:** Mr. Kurt Batsel

**Appendix I Metals (6010B/7841)**

**Sample ID:** GWA-7/MW-7

**Matrix:** Water

**Date Sampled:** 06/15/2004

**Date Extracted:**

**Date Analyzed:** 06/22/2004

**ACL Sample #:** 216848

**Units:** mg/L

**Analyst:** SW/AD

| <u>Analyte</u> | <u>Result</u> | <u>PQL</u> |
|----------------|---------------|------------|
| Antimony       | BQL           | 0.006      |
| Arsenic        | BQL           | 0.010      |
| Barium         | BQL           | 0.020      |
| Beryllium      | BQL           | 0.004      |
| Cadmium        | BQL           | 0.005      |
| Chromium       | BQL           | 0.020      |
| Cobalt         | BQL           | 0.050      |
| Copper         | BQL           | 0.020      |
| Lead           | BQL           | 0.010      |
| Nickel         | BQL           | 0.020      |
| Selenium       | BQL           | 0.040      |
| Silver         | BQL           | 0.010      |
| Thallium       | BQL           | 0.002      |
| Vanadium       | BQL           | 0.050      |
| Zinc           | BQL           | 0.020      |

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**Client Proj #:** VOGTLE  
**ACL Project #:** 45348  
**Date Received:** 06/18/2004  
**Date Reported:** 07/26/2004

**Contact:** Mr. Kurt Batsel

---

| <u>Sample ID</u> | <u>ACL #</u> | <u>Analyte</u>  | <u>Matrix</u> | <u>Result</u> | <u>PQL</u> | <u>Units</u> | <u>Date Analyzed</u> |
|------------------|--------------|-----------------|---------------|---------------|------------|--------------|----------------------|
| GWA-7/MW-7       | 216848       | Mercury (7470A) | Water         | 0.0006        | 0.0005     | mg/L         | 06/22/2004           |

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**Client Proj #:** VOGTLE  
**ACL Project #:** 45348  
**Date Received:** 06/18/2004  
**Date Reported:** 07/26/2004

**Contact:** Mr. Kurt Batsel

**V.O. (5030B/8260B) - Appendix II**

**Sample ID:** GWC-13/MW-13

**Matrix:** Water  
**Date Sampled:** 06/16/2004  
**Date Extracted:**  
**Date Analyzed:** 06/24/2004  
**Analyst:** RP

**ACL Sample #:** 216839 **Units:** µg/L

| <u>Analyte</u>              | <u>Result</u> | <u>PQL</u> | <u>Analyte</u>            | <u>Result</u> | <u>PQL</u> |
|-----------------------------|---------------|------------|---------------------------|---------------|------------|
| Acetone                     | BQL           | 100        | Ethyl methacrylate        | BQL           | 10         |
| Acetonitrile                | BQL           | 100        | Ethylbenzene              | BQL           | 5          |
| Acrolein                    | BQL           | 100        | 2-Hexanone                | BQL           | 50         |
| Acrylonitrile               | BQL           | 50         | Isobutyl alcohol          | BQL           | 50         |
| Allyl chloride              | BQL           | 10         | Methacrylonitrile         | BQL           | 100        |
| Aroclor 1248                | BQL           | 5          | Methyl bromide            | BQL           | 10         |
| Bromochloromethane          | BQL           | 5          | Methyl chloride           | BQL           | 10         |
| Bromodichloromethane        | BQL           | 5          | Methyl ethyl ketone       | BQL           | 100        |
| Bromoform                   | BQL           | 5          | Methyl iodide             | BQL           | 5          |
| Carbon disulfide            | BQL           | 5          | Methyl methacrylate       | BQL           | 30         |
| Carbon tetrachloride        | BQL           | 5          | 4-Methyl-2-pentanone      | BQL           | 50         |
| Chlorobenzene               | BQL           | 5          | Methylene bromide         | BQL           | 5          |
| Chloroethane                | BQL           | 10         | Methylene chloride        | BQL           | 5          |
| Chloroform                  | BQL           | 5          | Naphthalene               | BQL           | 5          |
| Chloroprene                 | BQL           | 20         | Propionitrile             | BQL           | 150        |
| 1,2-Dibromo-3-chloropropane | BQL           | 20         | Styrene                   | BQL           | 5          |
| Dibromochloromethane        | BQL           | 5          | 1,1,1,2-Tetrachloroethane | BQL           | 5          |
| 1,2-Dibromoethane           | BQL           | 5          | 1,1,2,2-Tetrachloroethane | BQL           | 5          |
| trans-1,4-Dichloro-2-butene | BQL           | 10         | Tetrachloroethene         | BQL           | 5          |
| 1,2-Dichlorobenzene         | BQL           | 5          | Toluene                   | BQL           | 5          |
| 1,3-Dichlorobenzene         | BQL           | 5          | 1,1,1-Trichloroethane     | BQL           | 5          |
| 1,4-Dichlorobenzene         | BQL           | 5          | 1,1,2-Trichloroethane     | BQL           | 5          |
| Dichlorodifluoromethane     | BQL           | 5          | Trichloroethene           | BQL           | 5          |
| 1,1-Dichloroethane          | 17            | 5          | Trichlorofluoromethane    | 121           | 5          |
| 1,2-Dichloroethane          | BQL           | 5          | 1,2,3-Trichloropropane    | BQL           | 5          |
| 1,1-Dichloroethene          | BQL           | 5          | Vinyl acetate             | BQL           | 50         |
| cis-1,2-Dichloroethene      | 9             | 5          | Vinyl chloride            | 2             | 2          |
| trans-1,2-Dichloroethene    | BQL           | 5          | m & p-Xylenes             | BQL           | 10         |
| trans-1,2-Dichloropropane   | BQL           | 5          | o-Xylene                  | BQL           | 5          |
| trans-1,2-Dichloropropane   | BQL           | 5          |                           |               |            |
| 2,2-Dichloropropane         | BQL           | 15         |                           |               |            |
| 1,1-Dichloropropene         | BQL           | 5          |                           |               |            |
| cis-1,3-Dichloropropene     | BQL           | 5          |                           |               |            |
| trans-1,3-Dichloropropene   | BQL           | 5          |                           |               |            |

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Marietta, GA 30068-0000

**Client Proj #:** VOGTLE  
**ACL Project #:** 45348  
**Date Received:** 06/18/2004  
**Date Reported:** 07/26/2004

**Contact:** Mr. Kurt Batsel

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**Miscellaneous Organics (8011) - Appendix II**

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**Sample ID:** GWC-13/MW-13

**Matrix:** Water

**Date Sampled:** 06/16/2004

**Date Extracted:** 06/22/2004

**Date Analyzed:** 06/24/2004

**ACL Sample #:** 216839      **Units:** µg/L

**Analyst:** SS

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| <u>Analyte</u>              | <u>Result</u> | <u>PQL</u> |
|-----------------------------|---------------|------------|
| 1,2-Dibromo-3-chloropropane | BQL           | 0.20       |
| 1,2-Dibromoethane           | BQL           | 0.05       |

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**Date Reported:** 07/26/2004

**Contact:** Mr. Kurt Batsel

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**Acid Extractables (8270C) - Appendix II**

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**Sample ID:** GWC-13/MW-13

**Matrix:** Water  
**Date Sampled:** 06/16/2004  
**Date Extracted:** 06/22/2004  
**Date Analyzed:** 06/28/2004  
**Analyst:** RB

**ACL Sample #:** 216839      **Units:** µg/L

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| <u>Analyte</u>             | <u>Result</u> | <u>PQL</u> |
|----------------------------|---------------|------------|
| 4-Chloro-3-methylphenol    | BQL           | 20         |
| 2-Chlorophenol             | BQL           | 10         |
| m & p-Cresol               | BQL           | 10         |
| o-Cresol                   | BQL           | 10         |
| 2,4-Dichlorophenol         | BQL           | 10         |
| 2,6-Dichlorophenol         | BQL           | 10         |
| 1,3-Dimethylphenol         | BQL           | 10         |
| 4,6-Dinitro-2-methylphenol | BQL           | 50         |
| 2,4-Dinitrophenol          | BQL           | 50         |
| 2-Nitrophenol              | BQL           | 10         |
| 4-Nitrophenol              | BQL           | 50         |
| Pentachlorophenol          | BQL           | 50         |
| Phenol                     | BQL           | 10         |
| 2,3,4,6-Tetrachlorophenol  | BQL           | 10         |
| 2,4,5-Trichlorophenol      | BQL           | 10         |
| 2,4,6-Trichlorophenol      | BQL           | 10         |

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**Client Proj #:** VOGTLE  
**ACL Project #:** 45348  
**Date Received:** 06/18/2004  
**Date Reported:** 07/26/2004

**Contact:** Mr. Kurt Batsel

### Base Neutral Extractables (8270C) - Appendix II

**Sample ID:** GWC-13/MW-13

**Matrix:** Water

**Date Sampled:** 06/16/2004

**Date Extracted:** 06/22/2004

**Date Analyzed:** 06/28/2004

**ACL Sample #:** 216839 **Units:** µg/L

**Analyst:** RB

| <u>Analyte</u>              | <u>Result</u> | <u>PQL</u> | <u>Analyte</u>                 | <u>Result</u> | <u>PQL</u> |
|-----------------------------|---------------|------------|--------------------------------|---------------|------------|
| Acenaphthene                | BQL           | 10         | Dimethyl phthalate             | BQL           | 10         |
| Acenaphthylene              | BQL           | 10         | p-(Dimethylamino)azobenzene    | BQL           | 10         |
| Acetophenone                | BQL           | 10         | 7,12-Dimethylbenz(a)anthracene | BQL           | 10         |
| 2-Acetylaminofluorene       | BQL           | 20         | 3,3'-Dimethylbenzidine         | BQL           | 10         |
| 4-Aminobiphenyl             | BQL           | 20         | m-Dinitrobenzene               | BQL           | 20         |
| Anthracene                  | BQL           | 10         | 2,4-Dinitrotoluene             | BQL           | 10         |
| Benzo(a)anthracene          | BQL           | 10         | 2,6-Dinitrotoluene             | BQL           | 10         |
| Benzo(a)pyrene              | BQL           | 10         | Diphenylamine                  | BQL           | 10         |
| Benzo(b)fluoranthene        | BQL           | 10         | Disulfoton                     | BQL           | 10         |
| Benzo(g,h,i)perylene        | BQL           | 10         | Ethyl methanesulfonate         | BQL           | 20         |
| Benzo(k)fluoranthene        | BQL           | 10         | Famphur                        | BQL           | 20         |
| Benzyl alcohol              | BQL           | 20         | Fluoranthene                   | BQL           | 10         |
| Bis(2-chloroethoxy)methane  | BQL           | 10         | Fluorene                       | BQL           | 10         |
| Bis(2-chloroethyl)ether     | BQL           | 10         | Hexachlorobenzene              | BQL           | 10         |
| Bis(2-chloroisopropyl)ether | BQL           | 10         | Hexachlorobutadiene            | BQL           | 10         |
| Bis(2-ethylhexyl)phthalate  | BQL           | 10         | Hexachlorocyclopentadiene      | BQL           | 10         |
| 4-Bromophenyl phenyl ether  | BQL           | 10         | Hexachloroethane               | BQL           | 10         |
| Butyl benzyl phthalate      | BQL           | 10         | Hexachloropropene              | BQL           | 10         |
| p-Chloroaniline             | BQL           | 20         | Indeno(1,2,3-cd)pyrene         | BQL           | 10         |
| Chlorobenzilate             | BQL           | 10         | Isodrin                        | BQL           | 20         |
| 2-Chloronaphthalene         | BQL           | 10         | Isophorone                     | BQL           | 10         |
| 4-Chlorophenyl phenyl ether | BQL           | 10         | Isosafrole                     | BQL           | 10         |
| Chrysene                    | BQL           | 10         | Kepone                         | BQL           | 20         |
| Di-n-butyl phthalate        | BQL           | 10         | Malathion                      | BQL           | 50         |
| Di-n-octyl phthalate        | BQL           | 10         | Methapyrilene                  | BQL           | 100        |
| Diallate                    | BQL           | 10         | Methyl methanesulfonate        | BQL           | 10         |
| Dibenz(a,h)anthracene       | BQL           | 10         | Methyl parathion               | BQL           | 10         |
| Dibenzofuran                | BQL           | 10         | 3-Methylcholanthrene           | BQL           | 10         |
| 1,2-Dichlorobenzene         | BQL           | 10         | 2-Methylnaphthalene            | BQL           | 10         |
| 1,3-Dichlorobenzene         | BQL           | 10         | Naphthalene                    | BQL           | 10         |
| 1,4-Dichlorobenzene         | BQL           | 10         | 1,4-Naphthoquinone             | BQL           | 10         |
| 3,3'-Dichlorobenzidine      | BQL           | 20         | 1-Naphthylamine                | BQL           | 10         |
| Diethyl phthalate           | BQL           | 10         | 2-Naphthylamine                | BQL           | 10         |
| Dimethoate                  | BQL           | 10         | 5-Nitro-o-toluidine            | BQL           | 10         |

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**Client Proj #:** VOGTLE  
**ACL Project #:** 45348  
**Date Received:** 06/18/2004  
**Date Reported:** 07/26/2004

**Contact:** Mr. Kurt Batsel

**Base Neutral Extractables (8270C) - Appendix II**

**Sample ID:** GWC-13/MW-13

**Matrix:** Water

**Date Sampled:** 06/16/2004

**Date Extracted:** 06/22/2004

**Date Analyzed:** 06/28/2004

**ACL Sample #:** 216839 **Units:** µg/L

**Analyst:** RB

| <u>Analyte</u>                  | <u>Result</u> | <u>PQL</u> |
|---------------------------------|---------------|------------|
| 2-Nitroaniline                  | BQL           | 50         |
| 3-Nitroaniline                  | BQL           | 50         |
| 4-Nitroaniline                  | BQL           | 20         |
| Nitrobenzene                    | BQL           | 10         |
| N-Nitroso-di-n-butylamine       | BQL           | 10         |
| N-Nitrosodiethylamine           | BQL           | 20         |
| N-Nitrosodimethylamine          | BQL           | 10         |
| N-Nitrosodiphenylamine          | BQL           | 10         |
| N-Nitrosodipropylamine          | BQL           | 10         |
| N-Nitrosomethylethylamine       | BQL           | 10         |
| N-Nitrosopiperidine             | BQL           | 20         |
| N-Nitrosopyrrolidine            | BQL           | 40         |
| Parathion                       | BQL           | 20         |
| Pentachlorobenzene              | BQL           | 10         |
| Pentachloronitrobenzene         | BQL           | 20         |
| Phenacetin                      | BQL           | 20         |
| Phenanthrene                    | BQL           | 10         |
| p-Phenylenediamine              | BQL           | 10         |
| Phorate                         | BQL           | 10         |
| Pronamide                       | BQL           | 10         |
| Pyrene                          | BQL           | 10         |
| Safrole                         | BQL           | 10         |
| 1,2,4,5-Tetrachlorobenzene      | BQL           | 10         |
| Thionazin                       | BQL           | 20         |
| o-Toluidine                     | BQL           | 10         |
| 1,2,4-Trichlorobenzene          | BQL           | 10         |
| o,o,o-Triethyl phosphorothioate | BQL           | 50         |
| 1,3,5-Trinitrobenzene           | BQL           | 10         |

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**ACL Project #:** 45348  
**Date Received:** 06/18/2004  
**Date Reported:** 07/26/2004

**Contact:** Mr. Kurt Batsel

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**Pesticides/PCBs (8081A/8082) - Appendix II**

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**Sample ID:** GWC-13/MW-13

**Matrix:** Water  
**Date Sampled:** 06/16/2004  
**Date Extracted:** 06/21/2004  
**Date Analyzed:** 06/23/2004  
**Analyst:** SS

**ACL Sample #:** 216839      **Units:** µg/L

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| <u>Analyte</u>     | <u>Result</u> | <u>PQL</u> |
|--------------------|---------------|------------|
| Aldrin             | BQL           | 0.05       |
| Arochlor-1016      | BQL           | 0.50       |
| Arochlor-1221      | BQL           | 0.50       |
| Arochlor-1232      | BQL           | 0.50       |
| Arochlor-1242      | BQL           | 0.50       |
| Arochlor-1248      | BQL           | 0.50       |
| Arochlor-1254      | BQL           | 0.50       |
| Arochlor-1260      | BQL           | 0.50       |
| a-BHC              | BQL           | 0.05       |
| b-BHC              | BQL           | 0.05       |
| d-BHC              | BQL           | 0.05       |
| g-BHC              | BQL           | 0.05       |
| Chlordane          | BQL           | 0.10       |
| 4,4'-DDD           | BQL           | 0.05       |
| 4,4'-DDE           | BQL           | 0.05       |
| 4,4'-DDT           | BQL           | 0.05       |
| Dieldrin           | BQL           | 0.05       |
| Endosulfan I       | BQL           | 0.05       |
| Endosulfan II      | BQL           | 0.05       |
| Endosulfan sulfate | BQL           | 0.05       |
| Endrin             | BQL           | 0.05       |
| Endrin aldehyde    | BQL           | 0.05       |
| Heptachlor         | BQL           | 0.05       |
| Heptachlor epoxide | BQL           | 0.05       |
| Methoxychlor       | BQL           | 0.05       |
| Toxaphene          | BQL           | 2.00       |

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**ACL Project #:** 45348  
**Date Received:** 06/18/2004  
**Date Reported:** 07/26/2004

**Contact:** Mr. Kurt Batsel

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**Chlorinated Herbicides (8151A) - Appendix II**

---

**Sample ID:** GWC-13/MW-13

**Matrix:** Water

**Date Sampled:** 06/16/2004

**Date Extracted:** 06/21/2004

**Date Analyzed:** 06/22/2004

**ACL Sample #:** 216839      **Units:** µg/L

**Analyst:** SS

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| <u>Analyte</u>    | <u>Result</u> | <u>PQL</u> |
|-------------------|---------------|------------|
| 2,4-D             | BQL           | 1.0        |
| Dinoseb           | BQL           | 1.0        |
| 2,4,5-TP (Silvex) | BQL           | 1.0        |
| 2,4,5-T           | BQL           | 1.0        |

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**Client Proj #:** VOGTLE  
**ACL Project #:** 45348  
**Date Received:** 06/18/2004  
**Date Reported:** 07/26/2004

**Contact:** Mr. Kurt Batsel

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**Appendix II Metals (6010B/7470A/7841)**

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**Sample ID:** GWC-13/MW-13

**Matrix:** Water  
**Date Sampled:** 06/16/2004  
**Date Extracted:**  
**Date Analyzed:** 06/22/2004  
**Analyst:** SW/AD

**ACL Sample #:** 216839      **Units:** mg/L

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| <u>Analyte</u> | <u>Result</u> | <u>PQL</u> |
|----------------|---------------|------------|
| Antimony       | BQL           | 0.006      |
| Arsenic        | BQL           | 0.010      |
| Barium         | 0.034         | 0.020      |
| Beryllium      | BQL           | 0.004      |
| Cadmium        | BQL           | 0.005      |
| Chromium       | BQL           | 0.020      |
| Cobalt         | BQL           | 0.050      |
| Copper         | BQL           | 0.020      |
| Lead           | BQL           | 0.010      |
| Mercury        | BQL           | 0.0005     |
| Nickel         | BQL           | 0.020      |
| Selenium       | BQL           | 0.040      |
| Silver         | BQL           | 0.010      |
| Thallium       | BQL           | 0.002      |
| Tin            | BQL           | 0.025      |
| Vanadium       | BQL           | 0.050      |
| Zinc           | BQL           | 0.020      |

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**Date Reported:** 07/26/2004

**Contact:** Mr. Kurt Batsel

| <u>Sample ID</u> | <u>ACL #</u> | <u>Analyte</u>  | <u>Matrix</u> | <u>Result</u> | <u>PQL</u> | <u>Units</u> | <u>Date Analyzed</u> |
|------------------|--------------|-----------------|---------------|---------------|------------|--------------|----------------------|
| GWC-13/MW-13     | 216839       | Cyanide (9012A) | Water         | BQL           | 0.020      | mg/L         | 06/23/2004           |
| GWC-13/MW-13     | 216839       | Sulfide (9034)  | Water         | BQL           | 1.0        | mg/L         | 06/22/2004           |

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**ACL Project #:** 45348  
**Date Received:** 06/18/2004  
**Date Reported:** 07/26/2004

**Contact:** Mr. Kurt Batsel

### V.O. (5030B/8260B) - Appendix II

**Sample ID:** GWC-13/MW-13 Dup

**Matrix:** Water

**Date Sampled:** 06/16/2004

**Date Extracted:**

**Date Analyzed:** 06/24/2004

**ACL Sample #:** 216841 **Units:** µg/L

**Analyst:** RP

| <u>Analyte</u>              | <u>Result</u> | <u>PQL</u> | <u>Analyte</u>            | <u>Result</u> | <u>PQL</u> |
|-----------------------------|---------------|------------|---------------------------|---------------|------------|
| Acetone                     | BQL           | 100        | Ethyl methacrylate        | BQL           | 10         |
| Acetonitrile                | BQL           | 100        | Ethylbenzene              | BQL           | 5          |
| Acrolein                    | BQL           | 100        | 2-Hexanone                | BQL           | 50         |
| Acrylonitrile               | BQL           | 50         | Isobutyl alcohol          | BQL           | 50         |
| Allyl chloride              | BQL           | 10         | Methacrylonitrile         | BQL           | 100        |
| Azobenzene                  | BQL           | 5          | Methyl bromide            | BQL           | 10         |
| Bromochloromethane          | BQL           | 5          | Methyl chloride           | BQL           | 10         |
| Bromodichloromethane        | BQL           | 5          | Methyl ethyl ketone       | BQL           | 100        |
| Bromoform                   | BQL           | 5          | Methyl iodide             | BQL           | 5          |
| Carbon disulfide            | BQL           | 5          | Methyl methacrylate       | BQL           | 30         |
| Carbon tetrachloride        | BQL           | 5          | 4-Methyl-2-pentanone      | BQL           | 50         |
| Chlorobenzene               | BQL           | 5          | Methylene bromide         | BQL           | 5          |
| Chloroethane                | BQL           | 10         | Methylene chloride        | BQL           | 5          |
| Chloroform                  | BQL           | 5          | Naphthalene               | BQL           | 5          |
| Chloroprene                 | BQL           | 20         | Propionitrile             | BQL           | 150        |
| 1,2-Dibromo-3-chloropropane | BQL           | 20         | Styrene                   | BQL           | 5          |
| Dibromochloromethane        | BQL           | 5          | 1,1,1,2-Tetrachloroethane | BQL           | 5          |
| 1,2-Dibromoethane           | BQL           | 5          | 1,1,2,2-Tetrachloroethane | BQL           | 5          |
| trans-1,4-Dichloro-2-butene | BQL           | 10         | Tetrachloroethene         | BQL           | 5          |
| 1,2-Dichlorobenzene         | BQL           | 5          | Toluene                   | BQL           | 5          |
| 1,3-Dichlorobenzene         | BQL           | 5          | 1,1,1-Trichloroethane     | BQL           | 5          |
| 1,4-Dichlorobenzene         | BQL           | 5          | 1,1,2-Trichloroethane     | BQL           | 5          |
| Dichlorodifluoromethane     | BQL           | 5          | Trichloroethene           | BQL           | 5          |
| 1,1-Dichloroethane          | 19            | 5          | Trichlorofluoromethane    | 133           | 5          |
| 1,2-Dichloroethane          | BQL           | 5          | 1,2,3-Trichloropropane    | BQL           | 5          |
| 1,1-Dichloroethene          | BQL           | 5          | Vinyl acetate             | BQL           | 50         |
| cis-1,2-Dichloroethene      | 10            | 5          | Vinyl chloride            | 2             | 2          |
| trans-1,2-Dichloroethene    | BQL           | 5          | m & p-Xylenes             | BQL           | 10         |
| trans-1,2-Dichloropropane   | BQL           | 5          | o-Xylene                  | BQL           | 5          |
| trans-1,2-Dichloropropane   | BQL           | 5          |                           |               |            |
| 2,2-Dichloropropane         | BQL           | 15         |                           |               |            |
| 1,1-Dichloropropene         | BQL           | 5          |                           |               |            |
| cis-1,3-Dichloropropene     | BQL           | 5          |                           |               |            |
| trans-1,3-Dichloropropene   | BQL           | 5          |                           |               |            |

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**Client:** The Dextra Group, LLC  
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#154  
Marietta, GA 30068-0000

**Client Proj #:** VOGTLE  
**ACL Project #:** 45348  
**Date Received:** 06/18/2004  
**Date Reported:** 07/26/2004

**Contact:** Mr. Kurt Batsel

---

**Miscellaneous Organics (8011) - Appendix II**

---

**Sample ID:** GWC-13/MW-13 Dup

**Matrix:** Water

**Date Sampled:** 06/16/2004

**Date Extracted:** 06/22/2004

**Date Analyzed:** 06/25/2004

**ACL Sample #:** 216841      **Units:** µg/L

**Analyst:** SS

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| <u>Analyte</u>              | <u>Result</u> | <u>PQL</u> |
|-----------------------------|---------------|------------|
| 1,2-Dibromo-3-chloropropane | BQL           | 0.20       |
| 1,2-Dibromoethane           | BQL           | 0.05       |

---

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**Date Received:** 06/18/2004  
**Date Reported:** 07/26/2004

**Contact:** Mr. Kurt Batsel

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**Acid Extractables (8270C) - Appendix II**

---

**Sample ID:** GWC-13/MW-13 Dup

**Matrix:** Water

**Date Sampled:** 06/16/2004

**Date Extracted:** 06/22/2004

**Date Analyzed:** 06/29/2004

**ACL Sample #:** 216841      **Units:** µg/L

**Analyst:** RB

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| <u>Analyte</u>             | <u>Result</u> | <u>PQL</u> |
|----------------------------|---------------|------------|
| 4-Chloro-3-methylphenol    | BQL           | 20         |
| 2-Chlorophenol             | BQL           | 10         |
| m & p-Cresol               | BQL           | 10         |
| o-Cresol                   | BQL           | 10         |
| 2,4-Dichlorophenol         | BQL           | 10         |
| 1,3-Dichlorophenol         | BQL           | 10         |
| 1,4-Dimethylphenol         | BQL           | 10         |
| 4,6-Dinitro-2-methylphenol | BQL           | 50         |
| 2,4-Dinitrophenol          | BQL           | 50         |
| 2-Nitrophenol              | BQL           | 10         |
| 4-Nitrophenol              | BQL           | 50         |
| Pentachlorophenol          | BQL           | 50         |
| Phenol                     | BQL           | 10         |
| 2,3,4,6-Tetrachlorophenol  | BQL           | 10         |
| 2,4,5-Trichlorophenol      | BQL           | 10         |
| 2,4,6-Trichlorophenol      | BQL           | 10         |

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**Client Proj #:** VOGTLE  
**ACL Project #:** 45348  
**Date Received:** 06/18/2004  
**Date Reported:** 07/26/2004

**Contact:** Mr. Kurt Batsel

### Base Neutral Extractables (8270C) - Appendix II

**Sample ID:** GWC-13/MW-13 Dup

**Matrix:** Water

**Date Sampled:** 06/16/2004

**Date Extracted:** 06/22/2004

**Date Analyzed:** 06/29/2004

**ACL Sample #:** 216841 **Units:** µg/L

**Analyst:** RB

| <u>Analyte</u>              | <u>Result</u> | <u>PQL</u> | <u>Analyte</u>                 | <u>Result</u> | <u>PQL</u> |
|-----------------------------|---------------|------------|--------------------------------|---------------|------------|
| Acenaphthene                | BQL           | 10         | Dimethyl phthalate             | BQL           | 10         |
| Acenaphthylene              | BQL           | 10         | p-(Dimethylamino)azobenzene    | BQL           | 10         |
| Acetophenone                | BQL           | 10         | 7,12-Dimethylbenz(a)anthracene | BQL           | 10         |
| 2-Acetylaminofluorene       | BQL           | 20         | 3,3'-Dimethylbenzidine         | BQL           | 10         |
| 4-Aminobiphenyl             | BQL           | 20         | m-Dinitrobenzene               | BQL           | 20         |
| Anthracene                  | BQL           | 10         | 2,4-Dinitrotoluene             | BQL           | 10         |
| Benz(a)anthracene           | BQL           | 10         | 2,6-Dinitrotoluene             | BQL           | 10         |
| Benzo(a)pyrene              | BQL           | 10         | Diphenylamine                  | BQL           | 10         |
| Benzo(b)fluoranthene        | BQL           | 10         | Disulfoton                     | BQL           | 10         |
| Benzo(g,h,i)perylene        | BQL           | 10         | Ethyl methanesulfonate         | BQL           | 20         |
| Benzo(k)fluoranthene        | BQL           | 10         | Famphur                        | BQL           | 20         |
| Benzyl alcohol              | BQL           | 20         | Fluoranthene                   | BQL           | 10         |
| Bis(2-chloroethoxy)methane  | BQL           | 10         | Fluorene                       | BQL           | 10         |
| Bis(2-chloroethyl)ether     | BQL           | 10         | Hexachlorobenzene              | BQL           | 10         |
| Bis(2-chloroisopropyl)ether | BQL           | 10         | Hexachlorobutadiene            | BQL           | 10         |
| Bis(2-ethylhexyl)phthalate  | BQL           | 10         | Hexachlorocyclopentadiene      | BQL           | 10         |
| 4-Bromophenyl phenyl ether  | BQL           | 10         | Hexachloroethane               | BQL           | 10         |
| Butyl benzyl phthalate      | BQL           | 10         | Hexachloropropene              | BQL           | 10         |
| p-Chloroaniline             | BQL           | 20         | Indeno(1,2,3-cd)pyrene         | BQL           | 10         |
| Chlorobenzilate             | BQL           | 10         | Isodrin                        | BQL           | 20         |
| 2-Chloronaphthalene         | BQL           | 10         | Isophorone                     | BQL           | 10         |
| 4-Chlorophenyl phenyl ether | BQL           | 10         | Isosafrole                     | BQL           | 10         |
| Chrysene                    | BQL           | 10         | Kepone                         | BQL           | 20         |
| Di-n-butyl phthalate        | BQL           | 10         | Malathion                      | BQL           | 50         |
| Di-n-octyl phthalate        | BQL           | 10         | Methapyrilene                  | BQL           | 100        |
| Diallate                    | BQL           | 10         | Methyl methanesulfonate        | BQL           | 10         |
| Dibenz(a,h)anthracene       | BQL           | 10         | Methyl parathion               | BQL           | 10         |
| Dibenzofuran                | BQL           | 10         | 3-Methylcholanthrene           | BQL           | 10         |
| 1,2-Dichlorobenzene         | BQL           | 10         | 2-Methylnaphthalene            | BQL           | 10         |
| 1,3-Dichlorobenzene         | BQL           | 10         | Naphthalene                    | BQL           | 10         |
| 1,4-Dichlorobenzene         | BQL           | 10         | 1,4-Naphthoquinone             | BQL           | 10         |
| 3,3'-Dichlorobenzidine      | BQL           | 20         | 1-Naphthylamine                | BQL           | 10         |
| Diethyl phthalate           | BQL           | 10         | 2-Naphthylamine                | BQL           | 10         |
| Dimethoate                  | BQL           | 10         | 5-Nitro-o-toluidine            | BQL           | 10         |

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**Client Proj #:** VOGTLE  
**ACL Project #:** 45348  
**Date Received:** 06/18/2004  
**Date Reported:** 07/26/2004

**Contact:** Mr. Kurt Batsel

---

**Base Neutral Extractables (8270C) - Appendix II**

---

**Sample ID:** GWC-13/MW-13 Dup

**Matrix:** Water

**Date Sampled:** 06/16/2004

**Date Extracted:** 06/22/2004

**Date Analyzed:** 06/29/2004

**ACL Sample #:** 216841      **Units:** µg/L

**Analyst:** RB

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| <b>Analyte</b>                  | <b>Result</b> | <b>PQL</b> |
|---------------------------------|---------------|------------|
| 2-Nitroaniline                  | BQL           | 50         |
| 3-Nitroaniline                  | BQL           | 50         |
| 4-Nitroaniline                  | BQL           | 20         |
| Nitrobenzene                    | BQL           | 10         |
| N-Nitroso-di-n-butylamine       | BQL           | 10         |
| N-Nitrosodiethylamine           | BQL           | 20         |
| N-Nitrosodimethylamine          | BQL           | 10         |
| N-Nitrosodiphenylamine          | BQL           | 10         |
| N-Nitrosodipropylamine          | BQL           | 10         |
| N-Nitrosomethylethylamine       | BQL           | 10         |
| N-Nitrosopiperidine             | BQL           | 20         |
| N-Nitrosopyrrolidine            | BQL           | 40         |
| Parathion                       | BQL           | 20         |
| Pentachlorobenzene              | BQL           | 10         |
| Pentachloronitrobenzene         | BQL           | 20         |
| Phenacetin                      | BQL           | 20         |
| Phenanthrene                    | BQL           | 10         |
| p-Phenylenediamine              | BQL           | 10         |
| Phorate                         | BQL           | 10         |
| Pronamide                       | BQL           | 10         |
| Pyrene                          | BQL           | 10         |
| Safrole                         | BQL           | 10         |
| 1,2,4,5-Tetrachlorobenzene      | BQL           | 10         |
| Thionazin                       | BQL           | 20         |
| o-Toluidine                     | BQL           | 10         |
| 1,2,4-Trichlorobenzene          | BQL           | 10         |
| o,o,o-Triethyl phosphorothioate | BQL           | 50         |
| 1,3,5-Trinitrobenzene           | BQL           | 10         |

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**Pesticides/PCBs (8081A/8082) - Appendix II**

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**Sample ID:** GWC-13/MW-13 Dup

**Matrix:** Water

**Date Sampled:** 06/16/2004

**Date Extracted:** 06/21/2004

**Date Analyzed:** 06/23/2004

**ACL Sample #:** 216841

**Units:** µg/L

**Analyst:** SS

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| <u>Analyte</u>     | <u>Result</u> | <u>PQL</u> |
|--------------------|---------------|------------|
| Aldrin             | BQL           | 0.05       |
| Arochlor-1016      | BQL           | 0.50       |
| Arochlor-1221      | BQL           | 0.50       |
| Arochlor-1232      | BQL           | 0.50       |
| Arochlor-1242      | BQL           | 0.50       |
| chlor-1248         | BQL           | 0.50       |
| Arochlor-1254      | BQL           | 0.50       |
| Arochlor-1260      | BQL           | 0.50       |
| a-BHC              | BQL           | 0.05       |
| b-BHC              | BQL           | 0.05       |
| d-BHC              | BQL           | 0.05       |
| g-BHC              | BQL           | 0.05       |
| Chlordane          | BQL           | 0.10       |
| 4,4'-DDD           | BQL           | 0.05       |
| 4,4'-DDE           | BQL           | 0.05       |
| 4,4'-DDT           | BQL           | 0.05       |
| Dieldrin           | BQL           | 0.05       |
| Endosulfan I       | BQL           | 0.05       |
| Endosulfan II      | BQL           | 0.05       |
| Endosulfan sulfate | BQL           | 0.05       |
| Endrin             | BQL           | 0.05       |
| Endrin aldehyde    | BQL           | 0.05       |
| Heptachlor         | BQL           | 0.05       |
| Heptachlor epoxide | BQL           | 0.05       |
| Methoxychlor       | BQL           | 0.05       |
| Toxaphene          | BQL           | 2.00       |

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**ACL Project #:** 45348  
**Date Received:** 06/18/2004  
**Date Reported:** 07/26/2004

**Contact:** Mr. Kurt Batsel

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**Chlorinated Herbicides (8151A) - Appendix II**

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**Sample ID:** GWC-13/MW-13 Dup

**Matrix:** Water

**Date Sampled:** 06/16/2004

**Date Extracted:** 06/21/2004

**Date Analyzed:** 06/22/2004

**ACL Sample #:** 216841      **Units:** µg/L

**Analyst:** SS

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| <u>Analyte</u>    | <u>Result</u> | <u>PQL</u> |
|-------------------|---------------|------------|
| 2,4-D             | BQL           | 1.0        |
| Dinoseb           | BQL           | 1.0        |
| 2,4,5-TP (Silvex) | BQL           | 1.0        |
| 2,4,5-T           | BQL           | 1.0        |

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**ACL Project #:** 45348  
**Date Received:** 06/18/2004  
**Date Reported:** 07/26/2004

**Contact:** Mr. Kurt Batsel

**Appendix II Metals (6010B/7470A/7841)**

**Sample ID:** GWC-13/MW-13 Dup

**Matrix:** Water  
**Date Sampled:** 06/16/2004  
**Date Extracted:**  
**Date Analyzed:** 06/22/2004  
**Analyst:** SW/AD

**ACL Sample #:** 216841      **Units:** mg/L

| <u>Analyte</u> | <u>Result</u> | <u>PQL</u> |
|----------------|---------------|------------|
| Antimony       | BQL           | 0.006      |
| Arsenic        | BQL           | 0.010      |
| Barium         | 0.034         | 0.020      |
| Beryllium      | BQL           | 0.004      |
| Cadmium        | BQL           | 0.005      |
| Chromium       | BQL           | 0.020      |
| Cobalt         | BQL           | 0.050      |
| Copper         | BQL           | 0.020      |
| Lead           | BQL           | 0.010      |
| Mercury        | BQL           | 0.0005     |
| Nickel         | BQL           | 0.020      |
| Selenium       | BQL           | 0.040      |
| Silver         | BQL           | 0.010      |
| Thallium       | BQL           | 0.002      |
| Tin            | BQL           | 0.025      |
| Vanadium       | BQL           | 0.050      |
| Zinc           | BQL           | 0.020      |

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**Date Reported:** 07/26/2004

**Contact:** Mr. Kurt Batsel

| <u>Sample ID</u> | <u>ACL #</u> | <u>Analyte</u>  | <u>Matrix</u> | <u>Result</u> | <u>PQL</u> | <u>Units</u> | <u>Date Analyzed</u> |
|------------------|--------------|-----------------|---------------|---------------|------------|--------------|----------------------|
| GWC-13/MW-13 Dup | 216841       | Cyanide (9012A) | Water         | BQL           | 0.020      | mg/L         | 06/23/2004           |
| GWC-13/MW-13 Dup | 216841       | Sulfide (9034)  | Water         | BQL           | 1.0        | mg/L         | 06/22/2004           |

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**Date Received:** 06/18/2004  
**Date Reported:** 07/26/2004

**Contact:** Mr. Kurt Batsel

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**V.O. (5030B/8260B) - Appendix II**

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**Sample ID:** GWC-15/MW-15

**Matrix:** Water

**Date Sampled:** 06/16/2004

**Date Extracted:**

**Date Analyzed:** 06/24/2004

**ACL Sample #:** 216840 **Units:** µg/L

**Analyst:** RP

| <u>Analyte</u>              | <u>Result</u> | <u>PQL</u> | <u>Analyte</u>            | <u>Result</u> | <u>PQL</u> |
|-----------------------------|---------------|------------|---------------------------|---------------|------------|
| Acetone                     | BQL           | 100        | Ethyl methacrylate        | BQL           | 10         |
| Acetonitrile                | BQL           | 100        | Ethylbenzene              | BQL           | 5          |
| Acrolein                    | BQL           | 100        | 2-Hexanone                | BQL           | 50         |
| Acrylonitrile               | BQL           | 50         | Isobutyl alcohol          | BQL           | 50         |
| Allyl chloride              | BQL           | 10         | Methacrylonitrile         | BQL           | 100        |
| zene                        | BQL           | 5          | Methyl bromide            | BQL           | 10         |
| Bromochloromethane          | BQL           | 5          | Methyl chloride           | BQL           | 10         |
| Bromodichloromethane        | BQL           | 5          | Methyl ethyl ketone       | BQL           | 100        |
| Bromoform                   | BQL           | 5          | Methyl iodide             | BQL           | 5          |
| Carbon disulfide            | BQL           | 5          | Methyl methacrylate       | BQL           | 30         |
| Carbon tetrachloride        | BQL           | 5          | 4-Methyl-2-pentanone      | BQL           | 50         |
| Chlorobenzene               | BQL           | 5          | Methylene bromide         | BQL           | 5          |
| Chloroethane                | BQL           | 10         | Methylene chloride        | BQL           | 5          |
| Chloroform                  | BQL           | 5          | Naphthalene               | BQL           | 5          |
| Chloroprene                 | BQL           | 20         | Propionitrile             | BQL           | 150        |
| 1,2-Dibromo-3-chloropropane | BQL           | 20         | Styrene                   | BQL           | 5          |
| Dibromochloromethane        | BQL           | 5          | 1,1,1,2-Tetrachloroethane | BQL           | 5          |
| 1,2-Dibromoethane           | BQL           | 5          | 1,1,2,2-Tetrachloroethane | BQL           | 5          |
| trans-1,4-Dichloro-2-butene | BQL           | 10         | Tetrachloroethene         | BQL           | 5          |
| 1,2-Dichlorobenzene         | BQL           | 5          | Toluene                   | BQL           | 5          |
| 1,3-Dichlorobenzene         | BQL           | 5          | 1,1,1-Trichloroethane     | BQL           | 5          |
| 1,4-Dichlorobenzene         | BQL           | 5          | 1,1,2-Trichloroethane     | BQL           | 5          |
| Dichlorodifluoromethane     | BQL           | 5          | Trichloroethene           | BQL           | 5          |
| 1,1-Dichloroethane          | BQL           | 5          | Trichlorofluoromethane    | BQL           | 5          |
| 1,2-Dichloroethane          | BQL           | 5          | 1,2,3-Trichloropropane    | BQL           | 5          |
| 1,1-Dichloroethene          | BQL           | 5          | Vinyl acetate             | BQL           | 50         |
| cis-1,2-Dichloroethene      | BQL           | 5          | Vinyl chloride            | BQL           | 2          |
| trans-1,2-Dichloroethene    | BQL           | 5          | m & p-Xylenes             | BQL           | 10         |
| Dichloropropane             | BQL           | 5          | o-Xylene                  | BQL           | 5          |
| 1,3-Dichloropropane         | BQL           | 5          |                           |               |            |
| 2,2-Dichloropropane         | BQL           | 15         |                           |               |            |
| 1,1-Dichloropropene         | BQL           | 5          |                           |               |            |
| cis-1,3-Dichloropropene     | BQL           | 5          |                           |               |            |
| trans-1,3-Dichloropropene   | BQL           | 5          |                           |               |            |

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**Date Received:** 06/18/2004  
**Date Reported:** 07/26/2004

**Contact:** Mr. Kurt Batsel

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**Miscellaneous Organics (8011) - Appendix II**

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**Sample ID:** GWC-15/MW-15

**Matrix:** Water

**Date Sampled:** 06/16/2004

**Date Extracted:** 06/22/2004

**Date Analyzed:** 06/24/2004

**ACL Sample #:** 216840      **Units:** µg/L

**Analyst:** SS

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| <u>Analyte</u>              | <u>Result</u> | <u>PQL</u> |
|-----------------------------|---------------|------------|
| 1,2-Dibromo-3-chloropropane | BQL           | 0.20       |
| 1,2-Dibromoethane           | BQL           | 0.05       |

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**Client:** The Dextra Group, LLC  
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Marietta, GA 30068-0000

**Client Proj #:** VOGTLE  
**ACL Project #:** 45348  
**Date Received:** 06/18/2004  
**Date Reported:** 07/26/2004

**Contact:** Mr. Kurt Batsel

---

**Acid Extractables (8270C) - Appendix II**

---

**Sample ID:** GWC-15/MW-15

**Matrix:** Water  
**Date Sampled:** 06/16/2004  
**Date Extracted:** 06/22/2004  
**Date Analyzed:** 06/28/2004  
**Analyst:** RB

**ACL Sample #:** 216840      **Units:** µg/L

| <u>Analyte</u>             | <u>Result</u> | <u>PQL</u> |
|----------------------------|---------------|------------|
| 4-Chloro-3-methylphenol    | BQL           | 20         |
| 2-Chlorophenol             | BQL           | 10         |
| m & p-Cresol               | BQL           | 10         |
| o-Cresol                   | BQL           | 10         |
| 2,4-Dichlorophenol         | BQL           | 10         |
| 3,4-Dichlorophenol         | BQL           | 10         |
| 2,4,6-Trichlorophenol      | BQL           | 10         |
| 4,6-Dinitro-2-methylphenol | BQL           | 50         |
| 2,4-Dinitrophenol          | BQL           | 50         |
| 2-Nitrophenol              | BQL           | 10         |
| 4-Nitrophenol              | BQL           | 50         |
| Pentachlorophenol          | BQL           | 50         |
| Phenol                     | BQL           | 10         |
| 2,3,4,6-Tetrachlorophenol  | BQL           | 10         |
| 2,4,5-Trichlorophenol      | BQL           | 10         |
| 2,4,6-Trichlorophenol      | BQL           | 10         |

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**ACL Project #:** 45348  
**Date Received:** 06/18/2004  
**Date Reported:** 07/26/2004

**Contact:** Mr. Kurt Batsel

### Base Neutral Extractables (8270C) - Appendix II

**Sample ID:** GWC-15/MW-15

**Matrix:** Water

**Date Sampled:** 06/16/2004

**Date Extracted:** 06/22/2004

**Date Analyzed:** 06/28/2004

**ACL Sample #:** 216840 **Units:** µg/L

**Analyst:** RB

| <u>Analyte</u>              | <u>Result</u> | <u>PQL</u> | <u>Analyte</u>                 | <u>Result</u> | <u>PQL</u> |
|-----------------------------|---------------|------------|--------------------------------|---------------|------------|
| Acenaphthene                | BQL           | 10         | Dimethyl phthalate             | BQL           | 10         |
| Acenaphthylene              | BQL           | 10         | p-(Dimethylamino)azobenzene    | BQL           | 10         |
| Acetophenone                | BQL           | 10         | 7,12-Dimethylbenz(a)anthracene | BQL           | 10         |
| 2-Acetylaminofluorene       | BQL           | 20         | 3,3'-Dimethylbenzidine         | BQL           | 10         |
| 4-Aminobiphenyl             | BQL           | 20         | m-Dinitrobenzene               | BQL           | 20         |
| Anthracene                  | BQL           | 10         | 2,4-Dinitrotoluene             | BQL           | 10         |
| Benzo(a)anthracene          | BQL           | 10         | 2,6-Dinitrotoluene             | BQL           | 10         |
| Benzo(a)pyrene              | BQL           | 10         | Diphenylamine                  | BQL           | 10         |
| Benzo(b)fluoranthene        | BQL           | 10         | Disulfoton                     | BQL           | 10         |
| Benzo(g,h,i)perylene        | BQL           | 10         | Ethyl methanesulfonate         | BQL           | 20         |
| Benzo(k)fluoranthene        | BQL           | 10         | Famphur                        | BQL           | 20         |
| Benzyl alcohol              | BQL           | 20         | Fluoranthene                   | BQL           | 10         |
| Bis(2-chloroethoxy)methane  | BQL           | 10         | Fluorene                       | BQL           | 10         |
| Bis(2-chloroethyl)ether     | BQL           | 10         | Hexachlorobenzene              | BQL           | 10         |
| Bis(2-chloroisopropyl)ether | BQL           | 10         | Hexachlorobutadiene            | BQL           | 10         |
| Bis(2-ethylhexyl)phthalate  | BQL           | 10         | Hexachlorocyclopentadiene      | BQL           | 10         |
| 4-Bromophenyl phenyl ether  | BQL           | 10         | Hexachloroethane               | BQL           | 10         |
| Butyl benzyl phthalate      | BQL           | 10         | Hexachloropropene              | BQL           | 10         |
| p-Chloroaniline             | BQL           | 20         | Indeno(1,2,3-cd)pyrene         | BQL           | 10         |
| Chlorobenzilate             | BQL           | 10         | Isodrin                        | BQL           | 20         |
| 2-Chloronaphthalene         | BQL           | 10         | Isophorone                     | BQL           | 10         |
| 4-Chlorophenyl phenyl ether | BQL           | 10         | Isosafrole                     | BQL           | 10         |
| Chrysene                    | BQL           | 10         | Kepone                         | BQL           | 20         |
| Di-n-butyl phthalate        | BQL           | 10         | Malathion                      | BQL           | 50         |
| Di-n-octyl phthalate        | BQL           | 10         | Methapyrilene                  | BQL           | 100        |
| Diallate                    | BQL           | 10         | Methyl methanesulfonate        | BQL           | 10         |
| Dibenz(a,h)anthracene       | BQL           | 10         | Methyl parathion               | BQL           | 10         |
| Dibenzofuran                | BQL           | 10         | 3-Methylcholanthrene           | BQL           | 10         |
| 1,2-Dichlorobenzene         | BQL           | 10         | 2-Methylnaphthalene            | BQL           | 10         |
| 1,3-Dichlorobenzene         | BQL           | 10         | Naphthalene                    | BQL           | 10         |
| 1,4-Dichlorobenzene         | BQL           | 10         | 1,4-Naphthoquinone             | BQL           | 10         |
| 3,3'-Dichlorobenzidine      | BQL           | 20         | 1-Naphthylamine                | BQL           | 10         |
| Diethyl phthalate           | BQL           | 10         | 2-Naphthylamine                | BQL           | 10         |
| Dimethoate                  | BQL           | 10         | 5-Nitro-o-toluidine            | BQL           | 10         |



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**Client Proj #:** VOGTLE  
**ACL Project #:** 45348  
**Date Received:** 06/18/2004  
**Date Reported:** 07/26/2004

**Contact:** Mr. Kurt Batsel

---

**Base Neutral Extractables (8270C) - Appendix II**

---

**Sample ID:** GWC-15/MW-15

**Matrix:** Water  
**Date Sampled:** 06/16/2004  
**Date Extracted:** 06/22/2004  
**Date Analyzed:** 06/28/2004  
**Analyst:** RB

**ACL Sample #:** 216840      **Units:** µg/L

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| <u>Analyte</u>                  | <u>Result</u> | <u>PQL</u> |
|---------------------------------|---------------|------------|
| 2-Nitroaniline                  | BQL           | 50         |
| 3-Nitroaniline                  | BQL           | 50         |
| 4-Nitroaniline                  | BQL           | 20         |
| Nitrobenzene                    | BQL           | 10         |
| N-Nitroso-di-n-butylamine       | BQL           | 10         |
| N-Nitrosodiethylamine           | BQL           | 20         |
| N-Nitrosodimethylamine          | BQL           | 10         |
| N-Nitrosodiphenylamine          | BQL           | 10         |
| N-Nitrosodipropylamine          | BQL           | 10         |
| N-Nitrosomethylethylamine       | BQL           | 10         |
| N-Nitrosopiperidine             | BQL           | 20         |
| N-Nitrosopyrrolidine            | BQL           | 40         |
| Parathion                       | BQL           | 20         |
| Pentachlorobenzene              | BQL           | 10         |
| Pentachloronitrobenzene         | BQL           | 20         |
| Phenacetin                      | BQL           | 20         |
| Phenanthrene                    | BQL           | 10         |
| p-Phenylenediamine              | BQL           | 10         |
| Phorate                         | BQL           | 10         |
| Pronamide                       | BQL           | 10         |
| Pyrene                          | BQL           | 10         |
| Safrole                         | BQL           | 10         |
| 1,2,4,5-Tetrachlorobenzene      | BQL           | 10         |
| Thionazin                       | BQL           | 20         |
| o-Toluidine                     | BQL           | 10         |
| 1,2,4-Trichlorobenzene          | BQL           | 10         |
| o,o,o-Triethyl phosphorothioate | BQL           | 50         |
| 1,3,5-Trinitrobenzene           | BQL           | 10         |

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**Contact:** Mr. Kurt Batsel

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**Pesticides/PCBs (8081A/8082) - Appendix II**

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**Sample ID:** GWC-15/MW-15

**Matrix:** Water  
**Date Sampled:** 06/16/2004  
**Date Extracted:** 06/21/2004  
**Date Analyzed:** 06/23/2004  
**Analyst:** SS

**ACL Sample #:** 216840      **Units:** µg/L

| <u>Analyte</u>     | <u>Result</u> | <u>PQL</u> |
|--------------------|---------------|------------|
| Aldrin             | BQL           | 0.05       |
| Arochlor-1016      | BQL           | 0.50       |
| Arochlor-1221      | BQL           | 0.50       |
| Arochlor-1232      | BQL           | 0.50       |
| Arochlor-1242      | BQL           | 0.50       |
| chlor-1248         | BQL           | 0.50       |
| Arochlor-1254      | BQL           | 0.50       |
| Arochlor-1260      | BQL           | 0.50       |
| a-BHC              | BQL           | 0.05       |
| b-BHC              | BQL           | 0.05       |
| d-BHC              | BQL           | 0.05       |
| g-BHC              | BQL           | 0.05       |
| Chlordane          | BQL           | 0.10       |
| 4,4'-DDD           | BQL           | 0.05       |
| 4,4'-DDE           | BQL           | 0.05       |
| 4,4'-DDT           | BQL           | 0.05       |
| Dieldrin           | BQL           | 0.05       |
| Endosulfan I       | BQL           | 0.05       |
| Endosulfan II      | BQL           | 0.05       |
| Endosulfan sulfate | BQL           | 0.05       |
| Endrin             | BQL           | 0.05       |
| Endrin aldehyde    | BQL           | 0.05       |
| Heptachlor         | BQL           | 0.05       |
| Heptachlor epoxide | BQL           | 0.05       |
| Methoxychlor       | BQL           | 0.05       |
| Toxaphene          | BQL           | 2.00       |

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**Date Received:** 06/18/2004  
**Date Reported:** 07/26/2004

**Contact:** Mr. Kurt Batsel

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**Chlorinated Herbicides (8151A) - Appendix II**

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**Sample ID:** GWC-15/MW-15

**Matrix:** Water

**Date Sampled:** 06/16/2004

**Date Extracted:** 06/21/2004

**Date Analyzed:** 06/22/2004

**ACL Sample #:** 216840      **Units:** µg/L

**Analyst:** SS

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| <u>Analyte</u>    | <u>Result</u> | <u>PQL</u> |
|-------------------|---------------|------------|
| 2,4-D             | BQL           | 1.0        |
| Dinoseb           | BQL           | 1.0        |
| 2,4,5-TP (Silvex) | BQL           | 1.0        |
| 2,4,5-T           | BQL           | 1.0        |

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**Client Proj #:** VOGTLE  
**ACL Project #:** 45348  
**Date Received:** 06/18/2004  
**Date Reported:** 07/26/2004

**Contact:** Mr. Kurt Batsel

**Appendix II Metals (6010B/7470A/7841)**

**Sample ID:** GWC-15/MW-15

**Matrix:** Water  
**Date Sampled:** 06/16/2004  
**Date Extracted:**  
**Date Analyzed:** 06/22/2004  
**Analyst:** SW/AD

**ACL Sample #:** 216840      **Units:** mg/L

| <u>Analyte</u> | <u>Result</u> | <u>PQL</u> |
|----------------|---------------|------------|
| Antimony       | BQL           | 0.006      |
| Arsenic        | BQL           | 0.010      |
| Barium         | BQL           | 0.020      |
| Beryllium      | BQL           | 0.004      |
| Cadmium        | BQL           | 0.005      |
| Chromium       | BQL           | 0.020      |
| Cobalt         | BQL           | 0.050      |
| Copper         | BQL           | 0.020      |
| Lead           | BQL           | 0.010      |
| Mercury        | BQL           | 0.0005     |
| Nickel         | BQL           | 0.020      |
| Selenium       | BQL           | 0.040      |
| Silver         | BQL           | 0.010      |
| Thallium       | BQL           | 0.002      |
| Tin            | BQL           | 0.025      |
| Vanadium       | BQL           | 0.050      |
| Zinc           | BQL           | 0.020      |

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**Date Received:** 06/18/2004  
**Date Reported:** 07/26/2004

**Contact:** Mr. Kurt Batsel

| <u>Sample ID</u> | <u>ACL #</u> | <u>Analyte</u>  | <u>Matrix</u> | <u>Result</u> | <u>PQL</u> | <u>Units</u> | <u>Date Analyzed</u> |
|------------------|--------------|-----------------|---------------|---------------|------------|--------------|----------------------|
| GWC-15/MW-15     | 216840       | Cyanide (9012A) | Water         | BQL           | 0.020      | mg/L         | 06/23/2004           |
| GWC-15/MW-15     | 216840       | Sulfide (9034)  | Water         | BQL           | 1.0        | mg/L         | 06/22/2004           |

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**Date Received:** 06/18/2004  
**Date Reported:** 07/26/2004

**Contact:** Mr. Kurt Batsel

### V.O. (5030B/8260B) - Appendix II

**Sample ID:** EB061604

**Matrix:** Water

**Date Sampled:** 06/16/2004

**Date Extracted:**

**Date Analyzed:** 06/24/2004

**ACL Sample #:** 216842 **Units:** µg/L

**Analyst:** RP

| <u>Analyte</u>              | <u>Result</u> | <u>PQL</u> | <u>Analyte</u>            | <u>Result</u> | <u>PQL</u> |
|-----------------------------|---------------|------------|---------------------------|---------------|------------|
| Acetone                     | BQL           | 100        | Ethyl methacrylate        | BQL           | 10         |
| Acetonitrile                | BQL           | 100        | Ethylbenzene              | BQL           | 5          |
| Acrolein                    | BQL           | 100        | 2-Hexanone                | BQL           | 50         |
| Acrylonitrile               | BQL           | 50         | Isobutyl alcohol          | BQL           | 50         |
| Allyl chloride              | BQL           | 10         | Methacrylonitrile         | BQL           | 100        |
| zene                        | BQL           | 5          | Methyl bromide            | BQL           | 10         |
| Bromochloromethane          | BQL           | 5          | Methyl chloride           | BQL           | 10         |
| Bromodichloromethane        | BQL           | 5          | Methyl ethyl ketone       | BQL           | 100        |
| Bromoform                   | BQL           | 5          | Methyl iodide             | BQL           | 5          |
| Carbon disulfide            | BQL           | 5          | Methyl methacrylate       | BQL           | 30         |
| Carbon tetrachloride        | BQL           | 5          | 4-Methyl-2-pentanone      | BQL           | 50         |
| Chlorobenzene               | BQL           | 5          | Methylene bromide         | BQL           | 5          |
| Chloroethane                | BQL           | 10         | Methylene chloride        | BQL           | 5          |
| Chloroform                  | BQL           | 5          | Naphthalene               | BQL           | 5          |
| Chloroprene                 | BQL           | 20         | Propionitrile             | BQL           | 150        |
| 1,2-Dibromo-3-chloropropane | BQL           | 20         | Styrene                   | BQL           | 5          |
| Dibromochloromethane        | BQL           | 5          | 1,1,1,2-Tetrachloroethane | BQL           | 5          |
| 1,2-Dibromoethane           | BQL           | 5          | 1,1,2,2-Tetrachloroethane | BQL           | 5          |
| trans-1,4-Dichloro-2-butene | BQL           | 10         | Tetrachloroethene         | BQL           | 5          |
| 1,2-Dichlorobenzene         | BQL           | 5          | Toluene                   | BQL           | 5          |
| 1,3-Dichlorobenzene         | BQL           | 5          | 1,1,1-Trichloroethane     | BQL           | 5          |
| 1,4-Dichlorobenzene         | BQL           | 5          | 1,1,2-Trichloroethane     | BQL           | 5          |
| Dichlorodifluoromethane     | BQL           | 5          | Trichloroethene           | BQL           | 5          |
| 1,1-Dichloroethane          | BQL           | 5          | Trichlorofluoromethane    | BQL           | 5          |
| 1,2-Dichloroethane          | BQL           | 5          | 1,2,3-Trichloropropane    | BQL           | 5          |
| 1,1-Dichloroethene          | BQL           | 5          | Vinyl acetate             | BQL           | 50         |
| cis-1,2-Dichloroethene      | BQL           | 5          | Vinyl chloride            | BQL           | 2          |
| trans-1,2-Dichloroethene    | BQL           | 5          | m & p-Xylenes             | BQL           | 10         |
| Dichloropropane             | BQL           | 5          | o-Xylene                  | BQL           | 5          |
| 1,3-Dichloropropane         | BQL           | 5          |                           |               |            |
| 2,2-Dichloropropane         | BQL           | 15         |                           |               |            |
| 1,1-Dichloropropene         | BQL           | 5          |                           |               |            |
| cis-1,3-Dichloropropene     | BQL           | 5          |                           |               |            |
| trans-1,3-Dichloropropene   | BQL           | 5          |                           |               |            |

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**Date Received:** 06/18/2004  
**Date Reported:** 07/26/2004

**Contact:** Mr. Kurt Batsel

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**Miscellaneous Organics (8011) - Appendix II**

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**Sample ID:** EB061604

**Matrix:** Water

**Date Sampled:** 06/16/2004

**Date Extracted:** 06/22/2004

**Date Analyzed:** 06/25/2004

**ACL Sample #:** 216842      **Units:** µg/L

**Analyst:** SS

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| <u>Analyte</u>              | <u>Result</u> | <u>PQL</u> |
|-----------------------------|---------------|------------|
| 1,2-Dibromo-3-chloropropane | BQL           | 0.20       |
| 1,2-Dibromoethane           | BQL           | 0.05       |

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**ACL Project #:** 45348  
**Date Received:** 06/18/2004  
**Date Reported:** 07/26/2004

**Contact:** Mr. Kurt Batsel

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**Acid Extractables (8270C) - Appendix II**

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**Sample ID:** EB061604

**Matrix:** Water  
**Date Sampled:** 06/16/2004  
**Date Extracted:** 06/22/2004  
**Date Analyzed:** 06/29/2004  
**Analyst:** RB

**ACL Sample #:** 216842      **Units:** µg/L

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| <u>Analyte</u>             | <u>Result</u> | <u>PQL</u> |
|----------------------------|---------------|------------|
| 4-Chloro-3-methylphenol    | BQL           | 20         |
| 2-Chlorophenol             | BQL           | 10         |
| m & p-Cresol               | BQL           | 10         |
| o-Cresol                   | BQL           | 10         |
| 2,4-Dichlorophenol         | BQL           | 10         |
| 1,3-Dichlorophenol         | BQL           | 10         |
| 1,4-Dimethylphenol         | BQL           | 10         |
| 4,6-Dinitro-2-methylphenol | BQL           | 50         |
| 2,4-Dinitrophenol          | BQL           | 50         |
| 2-Nitrophenol              | BQL           | 10         |
| 4-Nitrophenol              | BQL           | 50         |
| Pentachlorophenol          | BQL           | 50         |
| Phenol                     | BQL           | 10         |
| 2,3,4,6-Tetrachlorophenol  | BQL           | 10         |
| 2,4,5-Trichlorophenol      | BQL           | 10         |
| 2,4,6-Trichlorophenol      | BQL           | 10         |

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**Client Proj #:** VOGTLE  
**ACL Project #:** 45348  
**Date Received:** 06/18/2004  
**Date Reported:** 07/26/2004

**Contact:** Mr. Kurt Batsel

### Base Neutral Extractables (8270C) - Appendix II

**Sample ID:** EB061604

**Matrix:** Water

**Date Sampled:** 06/16/2004

**Date Extracted:** 06/22/2004

**Date Analyzed:** 06/29/2004

**ACL Sample #:** 216842 **Units:** µg/L

**Analyst:** RB

| <u>Analyte</u>              | <u>Result</u> | <u>PQL</u> | <u>Analyte</u>                 | <u>Result</u> | <u>PQL</u> |
|-----------------------------|---------------|------------|--------------------------------|---------------|------------|
| Acenaphthene                | BQL           | 10         | Dimethyl phthalate             | BQL           | 10         |
| Acenaphthylene              | BQL           | 10         | p-(Dimethylamino)azobenzene    | BQL           | 10         |
| Acetophenone                | BQL           | 10         | 7,12-Dimethylbenz(a)anthracene | BQL           | 10         |
| 2-Acetylaminofluorene       | BQL           | 20         | 3,3'-Dimethylbenzidine         | BQL           | 10         |
| 4-Aminobiphenyl             | BQL           | 20         | m-Dinitrobenzene               | BQL           | 20         |
| Anthracene                  | BQL           | 10         | 2,4-Dinitrotoluene             | BQL           | 10         |
| Benzo(a)anthracene          | BQL           | 10         | 2,6-Dinitrotoluene             | BQL           | 10         |
| Benzo(a)pyrene              | BQL           | 10         | Diphenylamine                  | BQL           | 10         |
| Benzo(b)fluoranthene        | BQL           | 10         | Disulfoton                     | BQL           | 10         |
| Benzo(g,h,i)perylene        | BQL           | 10         | Ethyl methanesulfonate         | BQL           | 20         |
| Benzo(k)fluoranthene        | BQL           | 10         | Famphur                        | BQL           | 20         |
| Benzyl alcohol              | BQL           | 20         | Fluoranthene                   | BQL           | 10         |
| Bis(2-chloroethoxy)methane  | BQL           | 10         | Fluorene                       | BQL           | 10         |
| Bis(2-chloroethyl)ether     | BQL           | 10         | Hexachlorobenzene              | BQL           | 10         |
| Bis(2-chloroisopropyl)ether | BQL           | 10         | Hexachlorobutadiene            | BQL           | 10         |
| Bis(2-ethylhexyl)phthalate  | BQL           | 10         | Hexachlorocyclopentadiene      | BQL           | 10         |
| 4-Bromophenyl phenyl ether  | BQL           | 10         | Hexachloroethane               | BQL           | 10         |
| Butyl benzyl phthalate      | BQL           | 10         | Hexachloropropene              | BQL           | 10         |
| p-Chloroaniline             | BQL           | 20         | Indeno(1,2,3-cd)pyrene         | BQL           | 10         |
| Chlorobenzilate             | BQL           | 10         | Isodrin                        | BQL           | 20         |
| 2-Chloronaphthalene         | BQL           | 10         | Isophorone                     | BQL           | 10         |
| 4-Chlorophenyl phenyl ether | BQL           | 10         | Isosafrole                     | BQL           | 10         |
| Chrysene                    | BQL           | 10         | Kepone                         | BQL           | 20         |
| Di-n-butyl phthalate        | BQL           | 10         | Malathion                      | BQL           | 50         |
| Di-n-octyl phthalate        | BQL           | 10         | Methapyrilene                  | BQL           | 100        |
| Diallyl ether               | BQL           | 10         | Methyl methanesulfonate        | BQL           | 10         |
| Dibenz(a,h)anthracene       | BQL           | 10         | Methyl parathion               | BQL           | 10         |
| Dibenzofuran                | BQL           | 10         | 3-Methylcholanthrene           | BQL           | 10         |
| 1,2-Dichlorobenzene         | BQL           | 10         | 2-Methylnaphthalene            | BQL           | 10         |
| 1,3-Dichlorobenzene         | BQL           | 10         | Naphthalene                    | BQL           | 10         |
| 1,4-Dichlorobenzene         | BQL           | 10         | 1,4-Naphthoquinone             | BQL           | 10         |
| 3,3'-Dichlorobenzidine      | BQL           | 20         | 1-Naphthylamine                | BQL           | 10         |
| Diethyl phthalate           | BQL           | 10         | 2-Naphthylamine                | BQL           | 10         |
| Dimethoate                  | BQL           | 10         | 5-Nitro-o-toluidine            | BQL           | 10         |

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**Client:** The Dextra Group, LLC  
4665 Lower Roswell Road  
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Marietta, GA 30068-0000

**Client Proj #:** VOGTLE  
**ACL Project #:** 45348  
**Date Received:** 06/18/2004  
**Date Reported:** 07/26/2004

**Contact:** Mr. Kurt Batsel

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**Base Neutral Extractables (8270C) - Appendix II**

---

**Sample ID:** EB061604

**Matrix:** Water

**Date Sampled:** 06/16/2004

**Date Extracted:** 06/22/2004

**Date Analyzed:** 06/29/2004

**ACL Sample #:** 216842      **Units:** µg/L

**Analyst:** RB

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| <u>Analyte</u>                  | <u>Result</u> | <u>PQL</u> |
|---------------------------------|---------------|------------|
| 2-Nitroaniline                  | BQL           | 50         |
| 3-Nitroaniline                  | BQL           | 50         |
| 4-Nitroaniline                  | BQL           | 20         |
| Nitrobenzene                    | BQL           | 10         |
| N-Nitroso-di-n-butylamine       | BQL           | 10         |
| Di-n-butylamine                 | BQL           | 20         |
| N-Nitrosodimethylamine          | BQL           | 10         |
| N-Nitrosodiphenylamine          | BQL           | 10         |
| N-Nitrosodipropylamine          | BQL           | 10         |
| N-Nitrosomethylethylamine       | BQL           | 10         |
| N-Nitrosopiperidine             | BQL           | 20         |
| N-Nitrosopyrrolidine            | BQL           | 40         |
| Parathion                       | BQL           | 20         |
| Pentachlorobenzene              | BQL           | 10         |
| Pentachloronitrobenzene         | BQL           | 20         |
| Phenacetin                      | BQL           | 20         |
| Phenanthrene                    | BQL           | 10         |
| p-Phenylenediamine              | BQL           | 10         |
| Phorate                         | BQL           | 10         |
| Pronamide                       | BQL           | 10         |
| Pyrene                          | BQL           | 10         |
| Safrole                         | BQL           | 10         |
| 1,2,4,5-Tetrachlorobenzene      | BQL           | 10         |
| Thionazin                       | BQL           | 20         |
| o-Toluidine                     | BQL           | 10         |
| 1,2,4-Trichlorobenzene          | BQL           | 10         |
| o,o,o-Triethyl phosphorothioate | BQL           | 50         |
| 1,3,5-Trinitrobenzene           | BQL           | 10         |

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**Contact:** Mr. Kurt Batsel

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**Pesticides/PCBs (8081A/8082) - Appendix II**

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**Sample ID:** EB061604

**Matrix:** Water

**Date Sampled:** 06/16/2004

**Date Extracted:** 06/21/2004

**Date Analyzed:** 06/24/2004

**ACL Sample #:** 216842      **Units:** µg/L

**Analyst:** SS

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| <u>Analyte</u>     | <u>Result</u> | <u>PQL</u> |
|--------------------|---------------|------------|
| Aldrin             | BQL           | 0.05       |
| Arochlor-1016      | BQL           | 0.50       |
| Arochlor-1221      | BQL           | 0.50       |
| Arochlor-1232      | BQL           | 0.50       |
| Arochlor-1242      | BQL           | 0.50       |
| Arochlor-1248      | BQL           | 0.50       |
| Arochlor-1254      | BQL           | 0.50       |
| Arochlor-1260      | BQL           | 0.50       |
| a-BHC              | BQL           | 0.05       |
| b-BHC              | BQL           | 0.05       |
| d-BHC              | BQL           | 0.05       |
| g-BHC              | BQL           | 0.05       |
| Chlordane          | BQL           | 0.10       |
| 4,4'-DDD           | BQL           | 0.05       |
| 4,4'-DDE           | BQL           | 0.05       |
| 4,4'-DDT           | BQL           | 0.05       |
| Dieldrin           | BQL           | 0.05       |
| Endosulfan I       | BQL           | 0.05       |
| Endosulfan II      | BQL           | 0.05       |
| Endosulfan sulfate | BQL           | 0.05       |
| Endrin             | BQL           | 0.05       |
| Endrin aldehyde    | BQL           | 0.05       |
| Heptachlor         | BQL           | 0.05       |
| Heptachlor epoxide | BQL           | 0.05       |
| Methoxychlor       | BQL           | 0.05       |
| Toxaphene          | BQL           | 2.00       |

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**Date Received:** 06/18/2004  
**Date Reported:** 07/26/2004

**Contact:** Mr. Kurt Batsel

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**Chlorinated Herbicides (8151A) - Appendix II**

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**Sample ID:** EB061604

**Matrix:** Water

**Date Sampled:** 06/16/2004

**Date Extracted:** 06/21/2004

**Date Analyzed:** 06/22/2004

**ACL Sample #:** 216842      **Units:** µg/L

**Analyst:** SS

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| <u>Analyte</u>    | <u>Result</u> | <u>PQL</u> |
|-------------------|---------------|------------|
| 2,4-D             | BQL           | 1.0        |
| Dinoseb           | BQL           | 1.0        |
| 2,4,5-TP (Silvex) | BQL           | 1.0        |
| 2,4,5-T           | BQL           | 1.0        |

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**Client Proj #:** VOGTLE  
**ACL Project #:** 45348  
**Date Received:** 06/18/2004  
**Date Reported:** 07/26/2004

**Contact:** Mr. Kurt Batsel

**Appendix II Metals (6010B/7470A/7841)**

**Sample ID:** EB061604

**Matrix:** Water  
**Date Sampled:** 06/16/2004  
**Date Extracted:**  
**Date Analyzed:** 06/22/2004  
**Analyst:** SW/AD

**ACL Sample #:** 216842      **Units:** mg/L

| <u>Analyte</u> | <u>Result</u> | <u>PQL</u> |
|----------------|---------------|------------|
| Antimony       | BQL           | 0.006      |
| Arsenic        | BQL           | 0.010      |
| Barium         | BQL           | 0.020      |
| Beryllium      | BQL           | 0.004      |
| Cadmium        | BQL           | 0.005      |
| Chromium       | BQL           | 0.020      |
| Cobalt         | BQL           | 0.050      |
| Copper         | BQL           | 0.020      |
| Lead           | BQL           | 0.010      |
| Mercury        | BQL           | 0.0005     |
| Nickel         | BQL           | 0.020      |
| Selenium       | BQL           | 0.040      |
| Silver         | BQL           | 0.010      |
| Thallium       | BQL           | 0.002      |
| Tin            | BQL           | 0.025      |
| Vanadium       | BQL           | 0.050      |
| Zinc           | BQL           | 0.020      |

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**Client Proj #:** VOGTLE  
**ACL Project #:** 45348  
**Date Received:** 06/18/2004  
**Date Reported:** 07/26/2004

**Contact:** Mr. Kurt Batsel

| <u>Sample ID</u> | <u>ACL #</u> | <u>Analyte</u>  | <u>Matrix</u> | <u>Result</u> | <u>PQL</u> | <u>Units</u> | <u>Date Analyzed</u> |
|------------------|--------------|-----------------|---------------|---------------|------------|--------------|----------------------|
| EB061604         | 216842       | Cyanide (9012A) | Water         | BQL           | 0.020      | mg/L         | 06/23/2004           |
| EB061604         | 216842       | Sulfide (9034)  | Water         | BQL           | 1.0        | mg/L         | 06/22/2004           |

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**Client Proj #:** VOGTLE  
**ACL Project #:** 45348  
**Date Received:** 06/18/2004  
**Date Reported:** 07/26/2004

**Contact:** Mr. Kurt Batsel

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**V.O. (5030B/8260B) - Appendix I**

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**Sample ID:** GWA-2/MW-2

**Matrix:** Water

**Date Sampled:** 06/16/2004

**Date Extracted:**

**Date Analyzed:** 06/24/2004

**ACL Sample #:** 216843

**Units:** µg/L

**Analyst:** RP

| <u>Analyte</u>              | <u>Result</u> | <u>PQL</u> | <u>Analyte</u>            | <u>Result</u> | <u>PQL</u> |
|-----------------------------|---------------|------------|---------------------------|---------------|------------|
| Acetone                     | BQL           | 100        | Styrene                   | BQL           | 5          |
| Acrylonitrile               | BQL           | 50         | 1,1,1,2-Tetrachloroethane | BQL           | 5          |
| Benzene                     | BQL           | 5          | 1,1,2,2-Tetrachloroethane | BQL           | 5          |
| Bromochloromethane          | BQL           | 5          | Tetrachloroethene         | BQL           | 5          |
| Bromodichloromethane        | BQL           | 5          | Toluene                   | BQL           | 5          |
| Chloroform                  | BQL           | 5          | 1,1,1-Trichloroethane     | BQL           | 5          |
| Carbon disulfide            | BQL           | 5          | 1,1,2-Trichloroethane     | BQL           | 5          |
| Carbon tetrachloride        | BQL           | 5          | Trichloroethene           | BQL           | 5          |
| Chlorobenzene               | BQL           | 5          | Trichlorofluoromethane    | BQL           | 5          |
| Chloroethane                | BQL           | 10         | 1,2,3-Trichloropropane    | BQL           | 5          |
| Chloroform                  | BQL           | 5          | Vinyl acetate             | BQL           | 50         |
| 1,2-Dibromo-3-chloropropane | BQL           | 20         | Vinyl chloride            | BQL           | 2          |
| Dibromochloromethane        | BQL           | 5          | m & p-Xylenes             | BQL           | 10         |
| 1,2-Dibromoethane           | BQL           | 5          | o-Xylene                  | BQL           | 5          |
| trans-1,4-Dichloro-2-butene | BQL           | 10         |                           |               |            |
| 1,2-Dichlorobenzene         | BQL           | 5          |                           |               |            |
| 1,4-Dichlorobenzene         | BQL           | 5          |                           |               |            |
| 1,1-Dichloroethane          | BQL           | 5          |                           |               |            |
| 1,2-Dichloroethane          | BQL           | 5          |                           |               |            |
| 1,1-Dichloroethene          | BQL           | 5          |                           |               |            |
| cis-1,2-Dichloroethene      | BQL           | 5          |                           |               |            |
| trans-1,2-Dichloroethene    | BQL           | 5          |                           |               |            |
| 1,2-Dichloropropane         | BQL           | 5          |                           |               |            |
| cis-1,3-Dichloropropene     | BQL           | 5          |                           |               |            |
| trans-1,3-Dichloropropene   | BQL           | 5          |                           |               |            |
| Ethylbenzene                | BQL           | 5          |                           |               |            |
| 2-Hexanone                  | BQL           | 50         |                           |               |            |
| Methyl bromide              | BQL           | 10         |                           |               |            |
| Methyl chloride             | BQL           | 10         |                           |               |            |
| Methyl ethyl ketone         | BQL           | 100        |                           |               |            |
| Methyl iodide               | BQL           | 5          |                           |               |            |
| 4-Methyl-2-pentanone        | BQL           | 50         |                           |               |            |
| Methylene bromide           | BQL           | 5          |                           |               |            |
| Methylene chloride          | BQL           | 5          |                           |               |            |

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**Client Proj #:** VOGTLE  
**ACL Project #:** 45348  
**Date Received:** 06/18/2004  
**Date Reported:** 07/26/2004

**Contact:** Mr. Kurt Batsel

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**Miscellaneous Organics (8011) - Appendix II**

---

**Sample ID:** GWA-2/MW-2

**Matrix:** Water

**Date Sampled:** 06/16/2004

**Date Extracted:** 06/22/2004

**Date Analyzed:** 06/25/2004

**ACL Sample #:** 216843      **Units:** µg/L

**Analyst:** SS

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| <u>Analyte</u>              | <u>Result</u> | <u>PQL</u> |
|-----------------------------|---------------|------------|
| 1,2-Dibromo-3-chloropropane | BQL           | 0.20       |
| 1,2-Dibromoethane           | BQL           | 0.05       |

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**Client Proj #:** VOGTLE  
**ACL Project #:** 45348  
**Date Received:** 06/18/2004  
**Date Reported:** 07/26/2004

**Contact:** Mr. Kurt Batsel

---

**Appendix I Metals (6010B/7841)**

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**Sample ID:** GWA-2/MW-2

**Matrix:** Water

**Date Sampled:** 06/16/2004

**Date Extracted:**

**Date Analyzed:** 06/22/2004

**ACL Sample #:** 216843      **Units:** mg/L

**Analyst:** SW/AD

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| <u>Analyte</u> | <u>Result</u> | <u>PQL</u> |
|----------------|---------------|------------|
| Antimony       | BQL           | 0.006      |
| Arsenic        | BQL           | 0.010      |
| Barium         | BQL           | 0.020      |
| Beryllium      | BQL           | 0.004      |
| Cadmium        | BQL           | 0.005      |
| Chromium       | BQL           | 0.020      |
| Cobalt         | BQL           | 0.050      |
| Copper         | BQL           | 0.020      |
| Lead           | BQL           | 0.010      |
| Nickel         | BQL           | 0.020      |
| Selenium       | BQL           | 0.040      |
| Silver         | BQL           | 0.010      |
| Thallium       | BQL           | 0.002      |
| Vanadium       | BQL           | 0.050      |
| Zinc           | BQL           | 0.020      |

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**Client Proj #:** VOGTLE  
**ACL Project #:** 45348  
**Date Received:** 06/18/2004  
**Date Reported:** 07/26/2004

**Contact:** Mr. Kurt Batsel

**V.O. (5030B/8260B) - Appendix I**

**Sample ID:** GWC-3/MW-3

**Matrix:** Water

**Date Sampled:** 06/16/2004

**Date Extracted:**

**Date Analyzed:** 06/24/2004

**ACL Sample #:** 216844 **Units:** µg/L

**Analyst:** RP

| <u>Analyte</u>              | <u>Result</u> | <u>PQL</u> | <u>Analyte</u>            | <u>Result</u> | <u>PQL</u> |
|-----------------------------|---------------|------------|---------------------------|---------------|------------|
| Acetone                     | BQL           | 100        | Styrene                   | BQL           | 5          |
| Acrylonitrile               | BQL           | 50         | 1,1,1,2-Tetrachloroethane | BQL           | 5          |
| Benzene                     | BQL           | 5          | 1,1,2,2-Tetrachloroethane | BQL           | 5          |
| Bromochloromethane          | BQL           | 5          | Tetrachloroethene         | BQL           | 5          |
| Bromodichloromethane        | BQL           | 5          | Toluene                   | BQL           | 5          |
| Chloroform                  | BQL           | 5          | 1,1,1-Trichloroethane     | BQL           | 5          |
| Carbon disulfide            | BQL           | 5          | 1,1,2-Trichloroethane     | BQL           | 5          |
| Carbon tetrachloride        | BQL           | 5          | Trichloroethene           | BQL           | 5          |
| Chlorobenzene               | BQL           | 5          | Trichlorofluoromethane    | BQL           | 5          |
| Chloroethane                | BQL           | 10         | 1,2,3-Trichloropropane    | BQL           | 5          |
| Chloroform                  | BQL           | 5          | Vinyl acetate             | BQL           | 50         |
| 1,2-Dibromo-3-chloropropane | BQL           | 20         | Vinyl chloride            | BQL           | 2          |
| Dibromochloromethane        | BQL           | 5          | m & p-Xylenes             | BQL           | 10         |
| 1,2-Dibromoethane           | BQL           | 5          | o-Xylene                  | BQL           | 5          |
| trans-1,4-Dichloro-2-butene | BQL           | 10         |                           |               |            |
| 1,2-Dichlorobenzene         | BQL           | 5          |                           |               |            |
| 1,4-Dichlorobenzene         | BQL           | 5          |                           |               |            |
| 1,1-Dichloroethane          | BQL           | 5          |                           |               |            |
| 1,2-Dichloroethane          | BQL           | 5          |                           |               |            |
| 1,1-Dichloroethene          | BQL           | 5          |                           |               |            |
| cis-1,2-Dichloroethene      | BQL           | 5          |                           |               |            |
| trans-1,2-Dichloroethene    | BQL           | 5          |                           |               |            |
| 1,2-Dichloropropane         | BQL           | 5          |                           |               |            |
| cis-1,3-Dichloropropene     | BQL           | 5          |                           |               |            |
| trans-1,3-Dichloropropene   | BQL           | 5          |                           |               |            |
| Ethylbenzene                | BQL           | 5          |                           |               |            |
| 2-Hexanone                  | BQL           | 50         |                           |               |            |
| Methyl bromide              | BQL           | 10         |                           |               |            |
| Methyl chloride             | BQL           | 10         |                           |               |            |
| Methyl ethyl ketone         | BQL           | 100        |                           |               |            |
| Methyl iodide               | BQL           | 5          |                           |               |            |
| 4-Methyl-2-pentanone        | BQL           | 50         |                           |               |            |
| Methylene bromide           | BQL           | 5          |                           |               |            |
| Methylene chloride          | BQL           | 5          |                           |               |            |