Prepared for:

Waste Management of Virginia, Inc.
Maplewood Recycling and Waste Disposal Facility
20221 Maplewood Road
Jetersville, Virginia 23083

LANDFILL BIOREACTOR PROJECT
JANUARY 2007
SEMI-ANNUAL REPORT
OF MONITORING ACTIVITIES

MAPLEWOOD RECYCLING AND WASTE DISPOSAL FACILITY
AMELIA COUNTY, VIRGINIA

VDEQ Solid Waste Permit No. 540

Prepared by:
Geosyntec consultants
10015 Old Columbia Road, Suite A-200
Columbia, Maryland 21046

Project No.: ME0275

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1. INTRODUCTION

1.1 Terms of Reference

The purpose of this semi-annual monitoring report is to present the results obtained between July 1, 2006 and December 31, 2006, of the Landfill Bioreactor Project at the Maplewood Recycling and Waste Disposal Facility (Maplewood Landfill) in Amelia County, Virginia. The bioreactor study is being performed by Waste Management of Virginia, Inc. (WMVA) under the United States Environmental Protection Agency's (USEPA's) Project Excellence and Leadership Program (Project XL). This monitoring report was prepared for the Virginia Department of Environmental Quality (VDEQ) by Mr. Douglas T. Mandeville, P.E., and was reviewed by Mr. Thomas B. Ramsey, P.E., all of Geosyntec Consultants (Geosyntec), in accordance with the internal peer review policy of the firm. This report describes the monitoring activities between the above mentioned dates. To aid in the interpretation of the data, the tables and figures contain all of the data collected since leachate recirculation began on August 20, 2002.

1.2 Project Overview

The Maplewood Landfill is located in Amelia County, Virginia, approximately 30 miles southwest of Richmond, Virginia. The waste disposal area will cover approximately 404 acres upon completion. Construction of the first phases started in 1992. The Maplewood Landfill was constructed having a geomembrane composite double-liner system, with primary leachate collection and leak detection (secondary collection) layers. The current configuration of Phases 1 through 4 is shown in Figure 1 and Drawing 1. As part of the Project XL program, Phases 1 and 2 are operated as bioreactors (i.e., leachate is recirculated); whereas Phases 3 and 4 are operated as standard landfill cells (i.e., no leachate is recirculated). Phases 1 and 2 of the Maplewood Landfill are referred to as the test area. Phases 3 and 4 are referred to as the control area.

A landfill is said to be a bioreactor when leachate and other liquids are added to the landfill to raise the moisture content of the waste to near its field capacity. The purposes of operating a landfill as a bioreactor are to increase the rate of biodegradation of waste in the landfill and to facilitate the management of leachate and other waste liquids. The original intent of the program at Maplewood was to recirculate all of the leachate generated at the site, typically between 3 to 4 million gallons per year. WMVA will seek to recirculate this amount, and maintain compliance with applicable rules and regulations. In the interest of maintaining compliance with good landfill

operating practices and environmental protection, the actual amount of leachate recirculated may be less than 4 million gallons per year. The amount of liquid applied to the waste will vary based on site inspections and observations. Regardless of the quantity of leachate recirculated, the requirement to perform monitoring during the course of the program will continue.

It was anticipated that operating Phases 1 and 2 as a bioreactor would result in several environmental and cost saving benefits including, but not limited to, the following: (i) decreased leachate management costs; (ii) increased waste density in the landfill; (iii) reduced period of landfill gas generation; and (iv) improved long-term leachate quality. These benefits are discussed in depth in WMVA's Project XL application [Geosyntec, 2000].

The performance of the landfill is evaluated based on measurements of critical chemical and physical parameters associated with the solids, liquids, and gasses obtained from the test and control areas. Parameters measured include: settlement, leachate quantity and quality, in-place density of waste, and air quality. The parameters measured in the bioreactor area (i.e., test area) are compared to similar parameters measured from the control area.

1.3 Report Organization

In this report, the results of the analytical tests conducted between July 1, 2006 and December 31, 2006 (this reporting period) will be provided. The organization of this report is described below.

- Section 2 addresses the Federal register site specific rule making.
- Section 3 presents the requirements of VDEQ Experimental Permit.
- Section 4 describes the monitoring program and sampling and analysis activities performed during this reporting period.
- Section 5 describes the analytical test results and other data collected during this reporting period.
- Section 6 presents summary comments and an update on the status of the permit for Maplewood.
- Section 7 provides references.
- Appendix A presents leachate laboratory analysis results.

- Appendix B presents the liquid application logs (a daily and monthly liquid application summary is presented in Table 7).
- Appendix C presents the trench monitoring logs.
- Appendix D presents landfill settlement data.
- Appendix E presents landfill gas data.
- Appendix F presents groundwater quality compliance data.

2. REQUIREMENTS OF FEDERAL REGISTER SITE-SPECIFIC RULE MAKING

On July 18, 2002, the USEPA promulgated a site-specific rule to implement this project under Project XL. This rule was published in the Federal Register and provides site-specific regulatory flexibility under the Resource Conservation and Recovery Act (RCRA) for the Maplewood Landfill. Part 258, Subpart D of the rule identifies 14 conditions that are to be met while leachate is recirculated at Maplewood Landfill. The remainder of this section addresses 12 of these conditions; the last two conditions are related to the duration of, and compliance with, the site specific rule.

1) *Item 1 relates to the integrity of the liner system and maintaining less than 30 cm of head on the liner system.* In accordance with Item 1, the integrity of the liner system was maintained during construction of the recirculation trenches and the leachate collection system has been maintained in good operating order. To date, the leachate collection records for the test and control areas indicate that the leachate collection system is functioning as intended. Additionally, there has not been an increase in the leachate collection rate in the secondary leachate collection system. It is noted that design calculations showed that up to 3 to 4 million gallons of liquid per year could be added to the waste mass and that the head on the liner system would remain less than 30 cm. The liquid application rate is approximately 2.4 million gallons per year based on data between August 20, 2002 and December 31, 2006. Based on the design calculations and the actual leachate recirculation rates, the head on the liner system is expected to be less than 30 cm. Additionally, the leachate collection system has been designed to operate such that the leachate removal pumps turn on before the head acting on the liner system reaches 30 cm.

   There are no apparent signs of slope movement based on daily observations at the site.

2) *Item 2 relates to the Code of Federal Regulations (CFR) Section 258.40.* In accordance with Item 2, the groundwater quality for this monitoring period has been monitored and analyzed at the compliance point. This analysis was performed and reported by Joyce Engineering, Inc. (Joyce Engineering); a copy of Joyce Engineering's most recent report letter is presented in Appendix F. In the letter, Joyce Engineering states that lead has been

detected at concentrations that exceed the current MCL; however, it is noted that the detected concentrations were less than the facility background concentrations at the time of detection. Subsequently, Joyce Engineering determined that the concentrations were not statistically significant. As per VDEQ, the monitoring program at Maplewood Landfill, Permit No. 540, was allowed to continue in the Detection Monitoring Program.

3) *Item 3 relates to the occurrence of seeps at the landfill.* Between July 1, 2006 and December 31, 2006, one surface seep was observed on October 18, 2006. During the seep repair, field personnel observed that leachate appeared to be ponding on top of a thick soil layer. It is possible that this layer represented an old access road, a thick layer of intermediate cover, or an old cover soil stockpile. Once the seep repair was able to penetrate this soil layer, leachate was able to flow vertically downward into the waste mass. This approach is typically used for seep repair. No additional seeps were observed near this location during the remainder of the monitoring period.

4) *Item 4 relates to the leachate quality parameters to be analyzed as part of this project.* The evaluation of the key leachate quality parameters occurred at the frequency presented in the Final Project Agreement [Geosyntec, 2000] and the permit application for leachate recirculation submitted to VDEQ [Geosyntec, 2001]. The test results are discussed in Section 5.1. It should be noted that these parameters (or groups of parameters) have been analyzed in leachate samples collected from the test and control areas. Appendix A includes a summary of the leachate parameters that exceeded the MCL or were detected above the method detection limit. A complete set of laboratory results is available upon request.

5) *Item 5 relates to the quantity of leachate applied to the test area and the amount of leachate collected in the test and control areas of the landfill.* Leachate was added to the test area at Maplewood Landfill in accordance with the Final Project Agreement [Geosyntec, 2000] and the permit application for leachate recirculation submitted to VDEQ [Geosyntec, 2001]. The quantities of leachate applied to the test area and the quantities collected from the test and control area are discussed in Section 5.1.

6) *Item 6 relates to an initial characterization of the liquid that was added to the test area.* An initial characterization of the leachate added to the landfill was performed in August 2002. The results of this characterization indicated that the leachate is an acceptable liquid to add to the landfill. Between July 1, 2006 and December 31, 2006, the only liquid added to the test area at Maplewood Landfill was leachate generated from within the landfill.

7) *Item 7 relates to the occurrence of landfill fires in the test area and the measurement of gas temperature at the wellheads.* The test area at Maplewood Landfill has been operated in a manner to prevent landfill fires from occurring and none have been observed during the project. The gas temperature at the wellheads is discussed in Section 5.2.

8) *Item 8 relates to topographic surveys at the site.* As shown in Table 1, one topographic survey event was scheduled during the previous reporting period. Data from one survey was not available for inclusion in the previous report but has been included in this report. The results of previous surveys are presented in Table 8.

9) *Item 9 relates to odor complaints resulting from liquid application events.* No odor complaints associated with the liquid application events were recorded at Maplewood Landfill during the reporting period.

10) *Item 10 relates to an initial waste characterization in the test area of the landfill.* A total of 5 borings were drilled in the summer of 2001. Three of these borings were in the control area and two were in the test area. The results of this testing indicated that the waste in the test and control areas is typical MSW. Subsequent solid waste sampling events were conducted in early 2004 and late 2005.

11) *Item 11 relates to the preparation of semi-annual reports to the EPA Regional Administrator.* Previous monitoring reports were submitted on 8 May 2003, 17 July 2003, 19 January 2004, 18 July 2004, 18 January 2005, 18 July 2005, 18 January 2006, and 18 July 2006. The next monitoring report will be submitted in July 2007.

12) *Item 12 relates to additional landfill gas monitoring.* The monitoring requirements for the New Source Performance Standards (NSPS) and the

Title V Air Permit for the site were met during the monitoring period. Copies of the wellhead monitoring results and the surface scans are presented in Appendix E.

3. REQUIREMENTS OF VDEQ EXPERIMENTAL PERMIT

On July 18, 2002, VDEQ issued a permit modification allowing bioreactor operations in Phases 1 and 2 at the Maplewood Landfill. Permit module I.F. of the permit amendment issued July 18, 2002 identifies several site specific conditions that must be met while leachate is recirculated at Maplewood Landfill. The remainder of this section addresses each of these conditions.

1) *Item I.F.1 relates to the issuance of a Certificate to Operate.* Construction of the liquid application trenches was completed within 180 days of the issuance of the permit amendment.

2) *Item I.F.2 relates to the expiration of the experimental permit and request for a full permit amendment.* This report presents the data obtained during the second half of calendar year 2006. At this time, there are not enough data available to draw conclusions from the experiment. If the project is found to be a success, WMVA anticipates submitting a request for a full permit amendment. In February 2006, WMVA has submitted a request to VDEQ for a second experimental permit at Maplewood to be able to continue bioreactor operations.

3) *Item I.F.3 relates to the permitted landfill bioreactor area, Phases 1 and 2.* In accordance with the permit requirements, the liquid application trenches were constructed in Phases 1 and 2, and liquid was applied only in this part of the landfill.

4) *Item I.F.4 relates to the monitoring, sampling, and reporting requirements.* In accordance with Item I.F.4, the monitoring was completed as identified in Permit Attachment IIB-2. Previous monitoring reports were submitted on 8 May 2003, 17 July 2003, 19 January 2004, 18 July 2004, 18 January 2005, 18 July 2005, 18 January 2006 and 18 July 2006. The next monitoring report will be submitted in July 2007.

5) *Item I.F.5 relates to the Title V Air Permit Issued January 10, 2002 and the New Source Performance Standards Subpart WWW.* In accordance with Item I.F.5, WMVA complied with the regulations identified in the Title V Air Permit and the NSPS Subpart WWW.

6) *Item I.F.6 relates to managing leachate as a hazardous waste if the characterization of leachate indicates it is hazardous in accordance with Virginia Hazardous Waste Management Regulations (9 VAC 20-60-10).* (It should be noted that leachate is not explicitly listed as a hazardous waste in the Virginia Hazardous Waste Management Regulations). The laboratory results for the leachate samples obtained in July 2006 indicate that the leachate at Maplewood Landfill is not a hazardous waste.

7) *Item I.F.7 relates to the monitoring of leachate head over the liner at its lowest disposal point to ensure that no more than 1 foot of head of leachate accumulated over the liner.* The issue of hydraulic head acting on the liner system is addressed in Section 2, Item 1.

8) *Item I.F.8 relates to the closure of the bioreactor landfill area.* At this time, WMVA plans to continue bioreactor operations in Phases 1 and 2 at Maplewood Landfill. In accordance with Item I.F.8, WMVA will notify VDEQ at least 180 days prior to the anticipated date of closing.

4. MONITORING PROGRAM AND SAMPLING AND ANALYSIS ACTIVITIES

4.1 Monitoring Program

Project XL monitoring activities at the Maplewood Landfill consist of documenting the quality and quantity of leachate, landfill gas (LFG), and solid waste in the test and control areas. A detailed description of the monitoring activities for the Project XL program is presented in the document entitled, *"Monitoring, Sampling, and Analysis Plan"* (Monitoring Plan) [Geosyntec, 2001], which is contained in the permit application submitted to VDEQ. As part of the USEPA Project XL program and VDEQ permit requirements, a series of site-specific rules and monitoring requirements have been developed. The USEPA site-specific rule appeared in the Federal Register on July 18, 2002; compliance with these requirements were addressed in Section 2 of this report. The VDEQ site-specific permit requirements appeared in the state permit modification issued for the site on July 18, 2002; compliance with these requirements were addressed in Section 3 of this report. Table 1 shows the planned schedule for the 2006 monitoring events; Table 2 summarizes the dates and sampling events that have occurred to date.

Leachate monitoring events include collecting leachate samples from the control area and the test area for subsequent laboratory analysis. LFG monitoring events include measuring LFG composition at the wellheads in the control and test areas, obtaining LFG composition samples from the headers of the LFG collection system, and performing a surface scan to measure surface emissions. The solid waste monitoring event includes obtaining waste samples for subsequent analysis. In addition to these field monitoring events, leachate generation volumes, liquid application volumes, and landfill settlement are monitored.

The purpose of the monitoring program is to evaluate the performance of the landfill bioreactor throughout the duration of the project. The evaluation is based on the following performance criteria:

- leachate quality and quantity;
- LFG quality and quantity; and
- solid waste decomposition/stabilization.

The manner in which these criteria are being evaluated is described in the following three subsections.

4.1.1 Leachate Quality and Quantity

Sampling activities are conducted in both the test area and control area. Leachate sampling was conducted in Phases 1, 2, 3, 4, and at the leachate storage tank, according to the frequency described in Table 1. Leachate samples are collected by filling the appropriate sample bottles directly from the sampling ports from the primary leachate collection system for the respective phase being sampled. The sampling ports for each of the primary leachate collection systems are located within the vault/riser house of the leachate collection system for each phase. The specific parameters measured, and the associated test methods, are provided in Table 3. Key parameters that identify the presence of biological processes in the landfill have been identified and include: (i) Biological Oxygen Demand (BOD); (ii) Chemical Oxygen Demand (COD); (iii) Total Organic Carbon (TOC); (iv) Chloride; (v) Sulfate; (vi) Nitrate as Nitrogen; and (vii) Ammonia as Nitrogen (Pohland and Harper, 1986). From these indicators, a qualitative inference can be made regarding the degree of organic composition of landfill wastes.

In addition to evaluating the leachate quality in the landfill over time, the amount of liquid added to the leachate recirculation trenches and the amount of leachate collected in the leachate collection sumps was recorded.

4.1.2 Landfill Gas Quality and Quantity

Measurements of LFG quality are obtained from composite samples collected from the LFG control system. The parameters measured and the test methods for LFG monitoring and sampling are described in the Monitoring Plan [Geosyntec, 2001]. LFG samples for analysis of non methane organic compounds (NMOCs) were obtained in accordance with the requirements of USEPA Method 25. LFG samples obtained for analysis of volatile organic compounds (VOCs) were obtained in accordance with USEPA Method TO-14.

LFG monitoring is performed at each of the existing LFG wells to monitor activity within the test and control areas. Measurements of methane (CH_4), oxygen (O_2), carbon dioxide (CO_2), temperature, and flow rate were obtained from each gas well using portable field instruments, (i.e., a Landtech GEM 500). Hydrogen sulfide (H_2S) measurements were obtained using a GasTech GT-2 Hydrogen sulfide detector.

Surface emissions monitoring is performed in accordance with the requirements specified by the NSPS and Emissions Guidelines (EG) for MSW landfills [40 CFR

60.755]. Methane concentrations were measured within 5 to 10 centimeters (2 to 4 inches) from the landfill surface in the test and control areas.

4.1.3 Solid Waste Decomposition/Stabilization

To evaluate the degree of decomposition of the solid waste, a series of borings are drilled in the test and control areas on an annual basis. Solid waste samples obtained from these borings are evaluated for: (i) moisture content; (ii) cellulose; (iii) lignin; (iv) pH; and (v) biochemical methane potential (BMP). The moisture content is the percentage of water that is present in the waste. Cellulose is the portion of the volatile solids that will degrade over time; lignin is the portion of the volatile solids that will not degrade. Biochemical methane potential is a measure of how much methane the waste may generate.

A secondary method of evaluating waste decomposition is to measure waste settlement in both the test area and the control area. Topographic surveys are conducted on a quarterly basis and the cumulative settlement is analyzed.

4.2 Sampling and Analytical Activities

The overall monitoring and sampling program was implemented by Geosyntec with sampling performed by Joyce Engineering, Golder Associates (Golder) and WMVA site personnel.

4.2.1 Leachate Quality

Leachate samples from the test and control areas were obtained on January 31, 2006 by Joyce Engineering. Leachate samples were collected from sumps in Phases 1, 2, 3, 4, and the leachate storage tank using the field sampling procedures described in the Monitoring Plan contained in the permit application for leachate recirculation at the site [Geosyntec, 2001].

Leachate samples were analyzed by Geochemical Testing, Inc., and were tested for the parameters listed in Table 3. A summary of the leachate parameters that exceeded the MCL or were detected at concentrations above the method detection limit is provided in Appendix A. Analytical results for the key parameters identified in Section 4.1 are presented in Table 5. Also included in Table 5 are the parameters listed in the Federal Register site-specific rule (i.e., wet chemistry parameters, heavy metals, and common ions). The test results for the organic priority pollutants are not anticipated to

indicate the overall performance of the test area and are not presented in Table 5 at this time. Section 5.1 of this report discusses the leachate quality data.

4.2.2 Landfill Gas Quality and Quantity

The LFG samples were collected using the procedures described in the Monitoring Plan contained in the permit application for leachate recirculation at the site [Geosyntec, 2001]. Drawing 2 shows the LFG monitoring plan. These activities were conducted by Golder or WMVA according to the schedule presented in Table 2. The LFG samples from the header pipes in the LFG collection system were sent to Triangle Environmental Services for laboratory analysis. These LFG samples were tested in accordance with USEPA Method TO-14. Copies of these results are presented in Appendix E. The LFG composition at the wellheads in the test and control areas was monitored for the percentages of oxygen, carbon dioxide, methane, flow rate, and temperature. The LFG composition at the well heads measured during the field sampling events is summarized in Table 4.

4.2.3 Waste Sampling

Prior to construction of the leachate recirculation system, a series of exploratory borings were drilled in both the test and control areas in August and September 2001. Samples of solid waste were collected from a variety of depths at each boring location. The solid waste samples collected during the field activities were sent to Virginia Tech for analysis of moisture content, lignin, cellulose, pH, and BMP. Subsequent solid waste sampling events were conducted in January 2004 and November 2005.

4.3 Other Data

4.3.1 Leachate Generation Quantities

Leachate flow from the test area (Phases 1 and 2) and the control area (Phases 3 and 4) was measured weekly during this reporting period by WMVA site personnel using flowmeters that are installed in the leachate riser vaults near each cell. The quantities of leachate generated by each phase are presented in Table 6.

4.3.2 Quantity of Liquid Applied to Landfill

The amount of liquid added to each trench in the test area was recorded by WMVA site personnel. A summary of the liquid added to the landfill is presented in Table 7.

Daily liquid application logs for each trench are provided in Appendix B. Trench monitoring logs are provided in Appendix C.

4.3.3 Landfill Settlement

A series of topographic surveys of the test and control areas have been performed by Flora Surveying Associates. An approximately 100-ft grid system was established, with the elevation measured at the same locations over time. A summary table containing the point identification number, northing, easting, elevations for the survey data collected during 2006, and calculated point settlement between survey events is presented in Table 8. Drawing 3 shows the settlement monitoring plan.

5. DATA ANALYSIS

5.1 Leachate Quantity and Quality

Liquid application at the Maplewood Landfill commenced on August 20, 2002. To date, leachate generated from within the landfill is the only liquid that has been added to the test area. Figure 2 presents the cumulative liquid application volume versus time and the collected leachate volume. For reference, the target rate of 4 million gallons per year (333,300 gallons per month or 11,000 gallons per day) is also presented. Between January 1, 2006 and December 31, 2006, approximately 2,479,482 gallons were applied to the test area, with 1,525,007 gallons of leachate being sent off-site for disposal. To date, a total of 10,676,428 gallons of leachate have been applied to the test area at Maplewood Landfill. This is equivalent to a daily application rate of approximately 6,698 gallons.

In reviewing Table 7, it is apparent that the majority of the leachate recirculated during this reporting period was in Trenches 5 and 8. Together, these trenches account for 970,400 gallons, or approximately 81 percent of the leachate recirculated between July 1 and December 31, 2006. Trench 5 continues to be an effective trench to use for leachate recirculation. The infiltration capacity of Trench 8 has decreased over the last six months.

Table 9 shows the average monthly and total precipitation during 2006, as well as the monthly and annual departure from normal (data are for Richmond, Virginia). During the second half of 2006, the geographic region in which the landfill is situated received a little over 34.31 inches of rain, which is approximately 11.7 inches more than the historical average of 22.61 inches typically recorded for this six month period. Based on conversations with site personnel, it was apparent that the site received several isolated but significant rain events. The actual rainfall observed at the site may be higher than what was reported at surrounding weather stations.

The amount of leachate collected from the test and control areas during the operation of the liquid application system during this reporting period was 123,933 and 597,614 gallons, respectively. The total amount of leachate that has been collected in the test and control areas since inception of this project in August 2002 is 1,007,493 and 4,927,748 gallons, respectively. Although far more leachate has been collected from the control area than the test area at Maplewood Landfill, it should be noted that: (i) the average monthly leachate collection rates for the test and control areas prior to the start of leachate recirculation was 15,720 gallons and 102,000 gallons, respectively; and (ii)

the outward facing side slopes of the test area have been capped with the final cover system, thereby limiting the amount of infiltration and subsequent leachate generation, while in the control area only temporary soil capping has been applied.

In examining Figure 2, there does not appear to be a correlation between the amount of liquid applied to the landfill and the amount of leachate collected in the leachate collection system. This indicates that, at the present time, the waste in the test area has not yet reached its absorptive capacity.

Figures 3 through 7 show temporal variations in the BOD:COD ratio and COD:TOC ratio in leachate, as well as the concentrations of chloride, nitrate nitrogen, and ammonia nitrogen. These figures represent the key leachate parameters identified in Table 5. To date, it has not been possible to clearly identify consistent trends in the data nor significant differences between leachate data from the test and control areas. However, as shown in Figures 5 and 7, the concentrations of chloride and ammonia in the test area continue to be consistently lower than their concentrations in the control area. Two possible reasons for this are that (i) the test and control areas appear to have distinct leachate characteristics and (ii) the leachate added to the test area does not appear to have reached the leachate collection system as of December 2006. As previously reported, it should be noted that the BOD concentrations of leachate samples from both the test and control areas continue to be indicative of lower bound values for typical landfill leachate of 20 mg/l to 35,000 mg/l [Kjeldsen et al., 2003].

Additional data related to the leachate quality results is presented in Appendix A. The tables in Appendix A summarize the detected leachate parameters and highlight those that exceeded the MCL or method detection limits.

5.2 Landfill Gas Quality and Quantity

Table 4 summarizes monthly variations in composition and temperature of LFG measured at selected wellheads located within the test and control areas at the landfill. Wellhead locations are shown on Drawing 2. No additional LFG data from wellheads were available for this monitoring period. The temperatures measured at the wellheads have been consistently less than 135 degrees Fahrenheit; this indicates that there were no landfill fires within the test or control areas.

Historic trends in the LFG flow rates at each wellhead are shown in Figure 8. None of the data presented in Figure 9 show consistent behavioral trends; however, the flow rates appear to fluctuate in a similar manner with time.

Figure 9 shows the percentage of methane in LFG at the wells in the test and control areas. The concentration of methane present in LFG at all sampled wellheads had remained relatively consistent for a period of 12 months at 50 - 60 percent by volume. At the current time, therefore, there does not appear to be a clear difference between LFG methane concentrations in the test and control areas.

Figure 10 shows the percentage of carbon dioxide in LFG at the wells in the test and control areas. The concentration of carbon dioxide in LFG at all sampled wellheads had remained relatively consistent over a period of 12 months at 35 – 45 percent. At this time, therefore, there is not a clear difference in the amount of carbon dioxide present in LFG in the test and control areas.

5.3 Solid Waste Analysis

Solid waste samples were obtained from the test and control areas of the landfill during August and September 2001, January 2004, and November 2005. Table 10 summarizes the baseline solid waste sampling results from the field work performed in the summer of 2001, January 2004, and November 2005. The samples obtained in November 2005 continue to show an increase in the moisture content of the waste. No additional data were collected during this monitoring period.

6. SUMMARY

This report has provided a summary of the monitoring activities at the Maplewood Landfill as part of the leachate recirculation operations conducted under the USEPA's XL program. The test program has been operating for approximately 4 years, however, conclusions regarding the performance of the test area at the landfill cannot be provided at this time. For this reason, the following general comments are offered based on field observations and review of the data collected to date.

- Leachate recirculation has been performed without adverse environmental impacts (i.e., excessive odors, slope stability problems, or significant seepage problems).
- Using the operational techniques identified in the Project XL program for Maplewood Landfill, the anticipated benefits or clear trends in the condition of the test versus control areas (i.e., increased settlement, improved leachate quality, and improved LFG quality) cannot be quantified at this time.

During February 2006, WM submitted a permit amendment application (PAA) to VDEQ to continue this project at Maplewood for an additional 4 years. The PAA included a request for an Experimental Facility Permit, which will allow for WMVA to operate the facility as a bioreactor. As part of the PAA, the following operational changes were proposed to the program.

- Increase the liquid application rate to 10 million gallons per year.
- Allow Maplewood to be able to accept outside liquids to reach the target liquid application rate.
- Increase the size of the test area to 30 acres. This request will also require approval from USEPA.

WM received a letter addressing the technical adequacy for this permit application on August 22, 2006 and submitted a response to these comments on November 16, 2006. At this time, VDEQ is reviewing WM's responses to the technical adequacy comments. When this application is approved by VDEQ, bioreactor operations will resume at Maplewood.

7. REFERENCES

Geosyntec Consultants "*Project XL – Final Project Agreement for Landfill Bioreactor Systems – King George County Landfill and Recycling Center and Maplewood Recycling and Waste Disposal Facility*", dated 28 September 2000.

Geosyntec Consultants *"Landfill Bioreactor Project Application for Permit Amendment for Experimental Permit"*, Maplewood Recycling and Waste Disposal Facility, dated 19 September 2001.

Kjeldsen, P., Barlaz, M.P., Rooker, A.P., Baun, A., Ledin, A., and Christensen, T.H., 2003, "*Present and Long-Term Composition of MSW Landfill Leachate: A Revie*w", Critical Reviews in Environmental Science and Technology, 32 (4), pp. 297-336.

Pohland, F.G., and Harper, S.R., 1986, "*Critical Review and Summary of Leachate and Gas Production From Landfills*", EPA/600/2-86/073, U.S. Environmental Protection Agency, Cincinnati, Ohio.

Title 40, Code of Federal Regulations, Part 60.

TABLES

TABLE 1
PLANNED 2006 MONITORING ACTIVITIES
Project XL
Maplewood Recycling and Waste Disposal Facility
Amelia County, Virginia

	Monitoring Parameters	Responsible Party	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1. LEACHATE	Chemical parameters measured on site	WM personnel	X						X					
	Physical parameters measured on site	WM personnel	X	X	X	X	X	X	X	X	X	X	X	X
	Chemical parameters sampled on site from test area	Sampled by subcontractor, tested offsite by Geochemical	X						X					
	Chemical parameters sampled on site from storage tanks	Sampled by subcontractor, tested offsite by Geochemical	X						X					
2. LANDFILL GAS	Landfill gas composition measured on site	WM personnel	X	X	X	X	X	X	X	X	X	X	X	X
	Physical parameters measured on site	WM personnel	X	X	X	X	X	X	X	X	X	X	X	X
	Chemical parameters	WM personnel, testing by subcontractor	X						X					
	Surface landfill gas measured on site	Subcontractor	X						X					
3. SOLID WASTE	Survey, on site	Subcontractor	X			X			X			X		
	Solid waste stabilization and decomposition measured on site	WM personnel												

TABLE 2
SUMMARY OF SAMPLING ACTIVITIES
Project XL
Maplewood Recycling and Waste Disposal Facility
Amelia County, Virginia

Date	Sampling Event
8/2/2002	Topographical site survey
8/12/2002	Background leachate and landfill gas sampling
9/12/2002	Monthly landfill gas sampling
9/13/2002	Monthly leachate sampling
10/17/2002	Monthly landfill gas sampling
10/24/2002	Topographical site survey
10/28/2002	Monthly leachate sampling
11/20/2002	Monthly leachate sampling
11/21/2002	Monthly landfill gas sampling
12/18/2002	Monthly landfill gas sampling
12/26/2002	Monthly leachate sampling
1/23/2003	Monthly leachate sampling
1/28/2003	Monthly landfill gas sampling
2/15/2003	Monthly landfill gas sampling
3/10/2003	Topographical site survey
3/16/2003	Monthly landfill gas sampling
4/16/2003	Quarterly leachate sampling
5/21/2003	Monthly landfill gas sampling
6/9/2003	Topographical site survey
6/22/2003	Monthly landfill gas sampling
7/8/2003	Quarterly landfill gas sampling
7/16/2003	Quarterly leachate sampling
8/27/2003	Monthly landfill gas sampling
9/10/2003	Monthly landfill gas sampling
10/23/2003	Monthly landfill gas sampling
10/29/2003	Quarterly leachate sampling
11/21/2003	Monthly landfill gas sampling
12/19/2003	Monthly landfill gas sampling
1/5/2004	Annual solid waste sampling
1/8/2004	Monthly landfill gas sampling
1/12/2004	Topographical site survey
1/22/2004	Quarterly leachate sampling
2/10/2004	Monthly landfill gas sampling
3/10/2004	Monthly landfill gas sampling
3/18/2004	Topographical site survey
4/9/2004	Monthly landfill gas sampling
5/6/2004	Monthly landfill gas sampling
6/11/2004	Monthly landfill gas sampling
7/22/2004	Semi-annual leachate sampling
8/16/2004	Monthly landfill gas sampling
8/28/2004	Semi-annual landfill gas sampling
9/15/2004	Monthly landfill gas sampling
10/8/2004	Monthly landfill gas sampling
11/19/2004	Monthly landfill gas sampling
12/7/2004	Monthly landfill gas sampling
1/25/2005	Monthly landfill gas sampling
1/3/2005	Topographical site survey
1/31/2005	Semi-annual leachate sampling
2/9/2005	Monthly landfill gas sampling
3/23/2005	Monthly landfill gas sampling
4/6/2005	Monthly landfill gas sampling
4/21/2005	Topographical site survey
5/12/2005	Monthly landfill gas sampling
6/8/2005	Monthly landfill gas sampling
7/21/2005	Monthly landfill gas sampling
7/21/2005	Semi-annual leachate sampling
8/16/2005	Monthly landfill gas sampling
9/12/2005	Monthly landfill gas sampling
10/17/2005	Topographical site survey
10/20/2005	Monthly landfill gas sampling
11/2/2005	Monthly landfill gas sampling
12/15/2005	Monthly landfill gas sampling
12/28/2005	Topographical site survey
1/31/2006	Semi-annual leachate sampling
3/7/2006	Surface Emission Scan
2/8/2006	Monthly landfill gas sampling
3/23/2006	Monthly landfill gas sampling
4/27/2006	Monthly landfill gas sampling
5/24/2006	Monthly landfill gas sampling
6/13/2006	Monthly landfill gas sampling
7/13/2006	Topographical site survey
7/25/2006	Semi-annual leachate sampling
7/26/2006	Monthly landfill gas sampling
8/24/2006	Monthly landfill gas sampling
8/29/2006	Surface Emission Scan
9/28/2006	Monthly landfill gas sampling
10/1/2006	Groundwater Monitoring
10/17/2006	Surface Emission Scan
10/20/2006	Monthly landfill gas sampling
11/17/2006	Monthly landfill gas sampling
12/18/2006	Monthly landfill gas sampling

TABLE 3
LEACHATE ANALYSIS PARAMETERS
Project XL
Maplewood Recycling and Waste Disposal Facility
Ameila County, Virginia

Parameter	Method	Parameter	Method
Cadmium	EPA 200.7	Bromochloromethane	EPA 8260B
Potassium	EPA 200.7	Bromomethane	EPA 8260B
Chloride	EPA 325.2	Carbon Disulfide	EPA 8260B
Ammonia Nitrogen	EPA 350.1	Carbon Tetrachloride	EPA 8260B
Total Kjeldahl Nitrogen	EPA 351.3	Chlorobenzene	EPA 8260B
Nitrate Nitrogen	EPA 353.2	Chlorodibromomethane	EPA 8260B
Phosphorus, ortho	EPA 365.2	Chloroethane	EPA 8260B
Phosphorus, total	EPA 365.2	Chloromethane	EPA 8260B
Sulfate	EPA 375.4	cis-1,2-Dichloroethene	EPA 8260B
Arsenic	EPA 6010 B	cis-1,3-Dichloropropene	EPA 8260B
Barium	EPA 6010 B	Dibromomethane	EPA 8260B
Chromium	EPA 6010 B	Dichlorobromomethane	EPA 8260B
Lead	EPA 6010 B	Dichlorodifluoromethane	EPA 8260B
Selenium	EPA 6010 B	Ethyl Methacrylate	EPA 8260B
Silver	EPA 6010 B	Ethylbenzene	EPA 8260B
Mercury	EPA 7470	Iodomethane	EPA 8260B
1,2-Dibromo-3-chloropropane	EPA 8011	Methacrylonitrile	EPA 8260B
1,2-Dibromoethane	EPA 8011	Methyl Ethyl Ketone	EPA 8260B
1,1,1,2-Tetrachloroethane	EPA 8260B	Methyl methacrylate	EPA 8260B
1,1,1-Trichloroethane	EPA 8260B	Methylene Chloride	EPA 8260B
1,1,2,2-Tetrachloroethane	EPA 8260B	Propionitrile	EPA 8260B
1,1,2-Trichloroethane	EPA 8260B	Styrene	EPA 8260B
1,1-Dichloroethane	EPA 8260B	Tetrachloroethene	EPA 8260B
1,1-Dichloroethene	EPA 8260B	Toluene	EPA 8260B
1,1-Dichloropropene	EPA 8260B	Total Xylene	EPA 8260B
1,2,3-Trichloropropane	EPA 8260B	trans-1,2-Dichloroethene	EPA 8260B
1,2-Dichlorobenzene	EPA 8260B	trans-1,3-Dichloropropene	EPA 8260B
1,2-Dichloroethane	EPA 8260B	trans-1,4-Dichloro-2-butene	EPA 8260B
1,2-Dichloropropane	EPA 8260B	Tribromomethane	EPA 8260B
1,3-Dichlorobenzene	EPA 8260B	Trichloroethene	EPA 8260B
1,3-Dichloropropane	EPA 8260B	Trichlorofluoromethane	EPA 8260B
1,4-Dichlorobenzene	EPA 8260B	Trichloromethane	EPA 8260B
2,2-Dichloropropane	EPA 8260B	Vinyl Acetate	EPA 8260B
2-chloro-1,3-butadiene	EPA 8260B	Vinyl Chloride	EPA 8260B
2-Hexanone	EPA 8260B	1,2,4,5-Tetrachlorobenzene	EPA 8270C
2-Methyl-1-propanol	EPA 8260B	1,2,4-Trichlorobenzene	EPA 8270C
3-Chloro-1-Propene	EPA 8260B	1,3-Dinitrobenzene	EPA 8270C
4-Methyl-2-Pentanone	EPA 8260B	1,4-Naphthoquinone	EPA 8270C
Acetone	EPA 8260B	1-Naphthylamine	EPA 8270C
Acetonitrile	EPA 8260B	1-Nitrosopiperidine	EPA 8270C
Acrolein	EPA 8260B	2,3,4,6-Tetrachlorophenol	EPA 8270C
Acrylonitrile	EPA 8260B	2,4,5-Trichlorophenol	EPA 8270C
Benzene	EPA 8260B	2,4,6-Trichlorophenol	EPA 8270C

TABLE 3
LEACHATE ANALYSIS PARAMETERS
Project XL
Maplewood Recycling and Waste Disposal Facility
Ameila County, Virginia

Parameter	Method	Parameter	Method
2,4-Dichlorophenol	EPA 8270C	Dibenzofuran	EPA 8270C
2,4-Dimethylphenol	EPA 8270C	Diethyl Phthalate	EPA 8270C
2,4-Dinitrophenol	EPA 8270C	Dimethoate	EPA 8270C
2,4-Dinitrotoluene	EPA 8270C	Dimethyl Phthalate	EPA 8270C
2,6-Dichlorophenol	EPA 8270C	Di-N-Butyl Phthalate	EPA 8270C
2,6-Dinitrotoluene	EPA 8270C	Di-N-Octylphthalate	EPA 8270C
2-Acetylaminofluorene	EPA 8270C	Di-n-propylnitrosamine	EPA 8270C
2-Chloro-Naphthalene	EPA 8270C	Diphenylamine	EPA 8270C
2-Chlorophenol	EPA 8270C	Disulfoton	EPA 8270C
2-Methyl-4,6-dinitrophenol	EPA 8270C	Ethyl Methanesulfonate	EPA 8270C
2-Methylnaphthalene	EPA 8270C	Famphur	EPA 8270C
2-Naphthylamine	EPA 8270C	Fluoranthene	EPA 8270C
2-Nitroaniline	EPA 8270C	Fluorene	EPA 8270C
2-Nitrophenol	EPA 8270C	Hexachlorobenzene	EPA 8270C
3,3-Dichlorobenzidine	EPA 8270C	Hexachlorobutadiene	EPA 8270C
3,3'-Dimethylbenzidine	EPA 8270C	Hexachlorocyclopentadiene	EPA 8270C
3-Methylcholanthrene	EPA 8270C	Hexachloroethane	EPA 8270C
3-Nitroaniline	EPA 8270C	Hexachloropropene	EPA 8270C
4-Aminobiphenyl	EPA 8270C	Indeno(1,2,3-cd)pyrene	EPA 8270C
4-Bromophenylphenylether	EPA 8270C	Isodrin	EPA 8270C
4-Chloro-3-methylphenol	EPA 8270C	Isophorone	EPA 8270C
4-Chloroaniline	EPA 8270C	Isosafrole	EPA 8270C
4-Chlorophenylphenylether	EPA 8270C	m,p-Cresol	EPA 8270C
4-Nitroaniline	EPA 8270C	Methapyrilene	EPA 8270C
4-Nitrophenol	EPA 8270C	Methyl Methanesulfonate	EPA 8270C
5-Nitro-o-toluidine	EPA 8270C	Methyl Parathion	EPA 8270C
7,12Dimethylbenz(a)-anthracene	EPA 8270C	Naphthalene	EPA 8270C
Acenaphthene	EPA 8270C	Nitrobenzene	EPA 8270C
Acenaphthylene	EPA 8270C	N-Nitrosodibutylamine	EPA 8270C
Acetophenone	EPA 8270C	N-Nitrosodiethylamine	EPA 8270C
Anthracene	EPA 8270C	n-Nitrosodimethylamine	EPA 8270C
Benzo(a)anthracene	EPA 8270C	n-Nitrosodiphenylamine	EPA 8270C
Benzo(a)pyrene	EPA 8270C	N-Nitrosomethylethylamine	EPA 8270C
Benzo(b)fluoranthene	EPA 8270C	N-Nitrosopyrrolidine	EPA 8270C
Benzo(ghi)perylene	EPA 8270C	o,o,o-Triethylphosphothioate	EPA 8270C
Benzo(k)fluoranthene	EPA 8270C	o-Cresol	EPA 8270C
Benzyl Alcohol	EPA 8270C	o-Toluidine	EPA 8270C
bis(2-Chloroethoxy)methane	EPA 8270C	Parathion	EPA 8270C
bis(2-Chloroethyl)ether	EPA 8270C	p-Dimethylaminoazobenzene	EPA 8270C
bis(2-Chloroisopropyl)ether	EPA 8270C	Pentachlorobenzene	EPA 8270C
bis(2-Ethylhexyl)phthalate	EPA 8270C	Pentachloronitrobenzene	EPA 8270C
Butyl benzylphthalate	EPA 8270C	Phenacetin	EPA 8270C
Chlorobenzilate	EPA 8270C	Phenanthrene	EPA 8270C
Chrysene	EPA 8270C	Phenol	EPA 8270C
Diallate	EPA 8270C	Phorate	EPA 8270C
Dibenzo(a,h)anthracene	EPA 8270C	p-Phenylenediamine	EPA 8270C

TABLE 3
LEACHATE ANALYSIS PARAMETERS
Project XL
Maplewood Recycling and Waste Disposal Facility
Ameila County, Virginia

Parameter	Method	Parameter	Method
Pronamide	EPA 8270C	Endrin Aldehyde	EPA 8081
Pyrene	EPA 8270C	Gamma BHC (Lindane)	EPA 8081
Safrole	EPA 8270C	Heptachlor	EPA 8081
sym-Trinitrobenzene	EPA 8270C	Heptachlor epoxide	EPA 8081
Thionazin	EPA 8270C	Methoxychlor	EPA 8081
Chemical Oxygen Demand	HACH 8000	Toxaphene	EPA 8081
Total dissolved solids	SM 2540C	2,4,5-T	EPA 8151A
Nitrite Nitrogen	SM 4500-NO2B	2,4-D	EPA 8151A
BOD 5-day	SM 5210B	Dinoseb	EPA 8151A
Total Organic Carbon	SM 5310C	Pentachlorophenol	EPA 8151A
Aldrin	EPA 8081	Silvex	EPA 8151A
Alpha BHC	EPA 8081	Pyruvic	
Beta BHC	EPA 8081	Lactic	
Chlordane	EPA 8081	Formic	
DDD	EPA 8081	Acetic	
DDE	EPA 8081	Proprionic	
DDT	EPA 8081	Butyric	
Delta BHC	EPA 8081		
Dieldrin	EPA 8081		
Endosulfan I	EPA 8081		
Endosulfan II	EPA 8081		
Endosulfan Sulfate	EPA 8081		
Endrin	EPA 8081		

Note

This list of parameters was developed from the Monitoring, Sampling, and Analysis Report included in the permit amendment submitted in October 2001.

TABLE 4
LANDFILL GAS DATA
Project XL
Maplewood Recycling and Waste Disposal Facility
Amelia County, Virginia

LFG WELL 1 (TEST AREA)

Parameter	Sep-02	Oct-02	Nov-02	Dec-02	Jan-03	Apr-03	Jun-03	Aug-03	Sep-03	Oct-03	Nov-03	Dec-03	Jan-04	Feb-04	Mar-04	Apr-04	May-04
Temperature (degrees F)	95	82	96	91	100	77	77	79	78	78	78	76	76	75	81	89	77
Flow Rate (scfm)	19	37	107	80	53	74	65	50	50	74	119	22	51	67	65	77	68
Methane (%)	53	56.1	63.3	51.3	55.9	51.4	48.9	46.2	51	56.9	52.8	40.7	51.8	57.2	55.2	57.1	53.6
Carbon Dioxide (%)	39.6	40.3	36.1	38.8	37.1	39.3	37.4	37.6	43.5	42.4	34.1	34.8	40.4	39.7	43	39.3	43
Oxygen (%)	0.6	0.2	0.5	0.1	0.1	0.6	0.4	0.5	0.3	0.5	1.1	2	0.8	0.8	1.6	0	0
Balance (%)	6.8	3.4	0	9.8	6.9	8.7	13.3	15.7	5.2	0.2	12	22.5	7	2.3	0.2	3.6	3.4

LFG WELL 1 (TEST AREA)

Parameter	Jun-04	Sep-04	Oct-04	Nov-04	Dec-04	Jan-05	Feb-05	Mar-05	Apr-05	May-05	Jun-05	Jul-05	Aug-05	Sep-05	Oct-05	Nov-05	Dec-05
Temperature (degrees F)	77	99	77	112	72	78	74	72	74	73	92	75	74	75	75	74	73
Flow Rate (scfm)	69	52	87	3	---	83	86	78	76	74	87	90	92	68	109	63	85
Methane (%)	54.9	58.7	55.9	52.7	60	54.1	53.7	52.5	56.0	57.2	58.1	54.8	54.4	47.8	47.3	50.7	49.6
Carbon Dioxide (%)	42.4	39.6	42.6	40.8	39.4	38.5	39.9	40.4	40.6	40.2	39.7	40.1	41.1	39.2	38.5	39.2	39.4
Oxygen (%)	0.1	0.4	0	0.1	0.4	0	0.2	0.5	1.3	0.3	0.6	0.2	0.3	0.2	0.9	0.4	0.4
Balance (%)	2.6	1.3	1.5	6.4	0.2	7.4	6.2	6.6	2.1	2.3	1.6	4.9	4.2	12.8	13.3	9.7	10.6

LFG WELL 1 (TEST AREA)

Parameter	Feb-06	Mar-06	Apr-06	May-06	Jun-06	Jul-06	Aug-06	Sep-06	Oct-06	Nov-06	Dec-06
Temperature (degrees F)	73	81	73	74	74	74	75	75	74	73	83
Flow Rate (scfm)	107	107	83	122	103	234	109	100	133	127	126
Methane (%)	58.2	58.2	51.1	51.7	55.8	56	51.5	53.4	53.3	53.6	54
Carbon Dioxide (%)	38.2	38.2	37.3	38.4	41.9	41.4	40.5	39.6	41.1	39.8	40
Oxygen (%)	0.1	0.1	1	0.4	1.2	--	--	--	--	--	--
Balance (%)	3.5	3.5	10.6	9.5	1.1	2.2	7.9	6.6	5.6	6.4	5.8

TABLE 4
LANDFILL GAS DATA
(continued)

LFG WELL 2 (TEST AREA)

Parameter	Sep-02	Oct-02	Nov-02	Dec-02	Jan-03	Apr-03	Jun-03	Aug-03	Sep-03	Oct-03	Nov-03	Dec-03	Jan-04	Feb-04	Mar-04	Apr-04	May-04
Temperature (degrees F)	98	87	96	88	100	77	77	83	82	83	82	82	79	80	96	85	80
Flow Rate (scfm)	47	75	62	109	53	74	65	93	132	130	166	29	65	74	75	88	85
Methane (%)	54	59	58.6	59.8	55.9	51.4	48.9	53.2	56.4	57.4	58.5	42.7	52.5	56.8	57.6	59.5	55.6
Carbon Dioxide (%)	42.7	40.6	39	39.6	37.1	39.3	37.4	38.4	42.7	41.1	38.9	34.8	40.7	39.2	40.6	39.9	44.3
Oxygen (%)	0.9	0.4	0.8	0.4	0.1	0.6	0.4	0.7	0.8	1.4	1.1	3.4	1.1	1.1	1.6	0	0.0
Balance (%)	2.4	0	2	0.2	6.9	8.7	13.3	7.7	0.1	0.1	1.5	19.1	5.7	2.9	0.2	0.6	0.1

LFG WELL 2 (TEST AREA)

Parameter	Jun-04	Sep-04	Oct-04	Nov-04	Dec-04	Jan-05	Feb-05	Mar-05	Apr-05	May-05	Jun-05	Jul-05	Aug-05	Sep-05	Oct-05	Nov-05	Dec-05
Temperature (degrees F)	80	97	82	81	81	81	78	76	84	76	92	79	78	80	80	80	79
Flow Rate (scfm)	91	38	108	---	---	120	122	107	31	96	86	109	107	81	127	115	188
Methane (%)	56.7	57.4	56.2	55.9	59.2	59.8	55.7	55.5	57.8	56.2	57.8	55.4	53.3	53.6	50.6	52.6	54.0
Carbon Dioxide (%)	43	41.6	43.6	42.4	39.4	39.7	40.5	40.7	41.8	39.9	39.2	40	39.2	41.1	38.6	39.8	38.5
Oxygen (%)	0.1	0.5	0	0.2	0.3	0.3	0.4	0.6	0.2	0.4	1.4	0.8	0.4	0.2	1.1	0.8	0.3
Balance (%)	0.2	0.5	0.2	1.5	1.1	0.2	3.4	3.2	0.2	3.5	1.6	3.8	7.1	5.1	9.7	6.8	7.2

LFG WELL 2 (TEST AREA)

Parameter	Feb-06	Mar-06	Apr-06	May-06	Jun-06	Jul-06	Aug-06	Sep-06	Oct-06	Nov-06	Dec-06
Temperature (degrees F)	78	82	77	78	74	74	81	81	81	79	83
Flow Rate (scfm)	141	40	103	125	99	126	99	86	124	114	115
Methane (%)	61.1	57.7	52.5	54.4	51	54.1	54.9	55.3	54.6	56.4	56
Carbon Dioxide (%)	37.7	42	38	39	38.3	41.5	41.9	41.5	41.8	41.5	38
Oxygen (%)	0.3	0.2	1.2	0.4	0.3	--	--	--	--	--	--
Balance (%)	0.9	0.1	8.3	6.2	10.4	2.8	3.1	3.2	3.6	1.9	5.7

TABLE 4
LANDFILL GAS DATA
(continued)

LFG WELL 3 (TEST AREA)

Parameter	Sep-02	Oct-02	Nov-02	Dec-02	Jan-03	Apr-03	Jun-03	Aug-03	Sep-03	Oct-03	Nov-03	Dec-03	Jan-04	Feb-04	Mar-04	Apr-04	May-04
Temperature (degrees F)	115	102	105	100	92	98	96	99	98	99	97	96	96	94	90	90	93
Flow Rate (scfm)	2	20	53	75	65	56	55	51	59	53	63	7	23	35	38	48	35
Methane (%)	53	59.5	50.1	58.2	52.3	54.6	54.5	52.1	57.8	56.3	56.2	42.3	41.7	54.4	54.9	59.9	54.9
Carbon Dioxide (%)	38.6	40.1	36.1	39.8	34.9	39.8	36.5	37.3	40.5	41.1	41.2	33.8	33.2	38	43.1	39.5	43.3
Oxygen (%)	0.6	0.4	0.2	0.6	0.8	1.2	1.2	1.2	1.6	1.7	1.4	3.7	4.3	1.7	1.9	0	0.4
Balance (%)	7.8	0	14	1.4	12	4.4	7.8	9.4	0.1	0.9	1.2	20.2	20.8	5.9	0.1	0.6	1.4

LFG WELL 3 (TEST AREA)

Parameter	Jun-04	Sep-04	Oct-04	Nov-04	Dec-04	Jan-05	Feb-05	Mar-05	Apr-05	May-05	Jun-05	Jul-05	Aug-05	Sep-05	Oct-05	Nov-05	Dec-05
Temperature (degrees F)	94	93	91	89	89	90	85	82	89	83	94	87	86	89	87	90	78
Flow Rate (scfm)	37	32	41	52	---	47	47	42	93	35	85	44	23	11	67	36	1
Methane (%)	55	55.8	56.5	55.1	58.4	59.6	55.3	56.5	54.6	56.1	60	55	54.1	55	52.9	52.3	53.6
Carbon Dioxide (%)	42.8	39	42	40.3	37.3	39.4	40	41.3	39.7	40.8	38.1	41.1	40.9	41.7	40.2	41.2	38.5
Oxygen (%)	0.4	0.5	0.7	0.7	0.9	0.1	0.4	0.4	1.7	0.5	1.6	0.6	0.6	0.2	1.2	0.7	1.7
Balance (%)	1.8	4.7	0.8	3.9	3.4	0.9	4.3	1.8	4.0	2.6	0.3	3.3	4.4	3.1	5.7	5.8	6.2

LFG WELL 3 (TEST AREA)

Parameter	Feb-06	Mar-06	Apr-06	May-06	Jun-06	Jul-06	Aug-06	Sep-06	Oct-06	Nov-06	Dec-06
Temperature (degrees F)	80	66	80	78	79	74	85	85	85	81	84
Flow Rate (scfm)	71	17	32	129	111	90	25	21	31	4	5
Methane (%)	60.5	54.9	55.3	55.6	53.7	55.4	56.5	52.1	55.2	52	52
Carbon Dioxide (%)	39	41.2	39.2	37.4	39.3	41.3	43.4	39.9	40.9	36.3	36
Oxygen (%)	0.3	3.7	0.8	0.9	0.3	--	--	--	--	--	--
Balance (%)	0.2	0.2	4.7	6.1	6.7	3.1	0.1	7	3.4	10.2	10.7

TABLE 4
LANDFILL GAS DATA
(continued)

LFG WELL 4 (TEST AREA)

Parameter	Sep-02	Oct-02	Nov-02	Dec-02	Jan-03	Apr-03	Jun-03	Aug-03	Sep-03	Oct-03	Nov-03	Dec-03	Jan-04	Feb-04	Mar-04	Apr-04	May-04
Temperature (degrees F)	98	63	124	100	119	92	97	86	69	68	96	86	99	97	86	89	112
Flow Rate (scfm)	22	36	56	59	105	26	67	19	24	7	23	0	9	21	21	23	20
Methane (%)	54	58	50.9	57.3	57.1	60.2	57.4	56.9	58.1	60.1	64.6	48.4	47.5	55.7	54.2	60	54.4
Carbon Dioxide (%)	40	40.2	33.7	39.9	36	39.1	36.9	39.4	40.1	38.0	34.3	38	37.7	41	44.4	39.9	45.5
Oxygen (%)	0.4	0.8	1.5	0.6	0.9	0.5	1.6	0.7	1.6	1.8	1	2.7	3.1	1.2	1.2	0	0.0
Balance (%)	5.6	1	14	2.2	6	0.2	4.4	3	0.2	0.1	0.1	10.9	11.7	2.1	0.2	0.1	0.1

LFG WELL 4 (TEST AREA)

Parameter	Jun-04	Sep-04	Oct-04	Nov-04	Dec-04	Jan-05	Feb-05	Mar-05	Apr-05	May-05	Jun-05	Jul-05	Aug-05	Sep-05	Oct-05	Nov-05	Dec-05
Temperature (degrees F)	112	89	104	115	87	100	97	82	91	93	96	106	98	94	74	80	29
Flow Rate (scfm)	12	18	21	21	---	0	9	13	144	9	112	35	1	1	62	51	44
Methane (%)	55.3	57.1	54.7	55.7	58.9	57.9	53.8	56.3	56.9	57.5	57.3	57.5	56.1	56.4	54	54.8	54.7
Carbon Dioxide (%)	44.3	42	45.1	42.9	40.3	41.8	43	42.5	41.4	42.2	39.1	41.3	41.2	41.8	39.6	40.4	37.1
Oxygen (%)	0.3	0.7	0	0.3	0.1	0.1	3	1	0.9	0.2	1.2	0.7	0.7	0.4	1.5	1.0	2.6
Balance (%)	0.1	0.2	0.2	1.1	0.7	0.2	0.2	0.2	0.8	0.1	2.4	0.5	2	1.4	4.9	3.8	5.6

LFG WELL 4 (TEST AREA)

Parameter	Feb-06	Mar-06	Apr-06	May-06	Jun-06	Jul-06	Aug-06	Sep-06	Oct-06	Nov-06	Dec-06
Temperature (degrees F)	44	65	66	80	79	75	89	76	76	45	89
Flow Rate (scfm)	69	15	27	83	100	166	23	10	23	10	10
Methane (%)	57.4	57.6	57.4	57.2	53.7	55.5	57.2	49.9	57.4	40.8	48.5
Carbon Dioxide (%)	36.2	41.5	39.7	37	41	43.4	39.5	33.2	38.1	25.4	38.5
Oxygen (%)	1.2	0.8	0.4	0.7	0.1	--	--	--	--	--	--
Balance (%)	5.2	0.1	2.5	5.2	5.2	0.2	2.9	14.7	3.8	29.2	12.2

TABLE 4
LANDFILL GAS DATA
(continued)

LFG WELL 5 (TEST AREA)

Parameter	Sep-02	Oct-02	Nov-02	Dec-02	Jan-03	Apr-03	Jun-03	Aug-03	Sep-03	Oct-03	Nov-03	Dec-03	Jan-04	Feb-04	Mar-04	Apr-04	May-04
Temperature (degrees F)	97	98	102	90	81	96	95	96	94	94	93	92	92	92	82	100	94
Flow Rate (scfm)	6	36	45	65	76	42	41	47	45	42	103	5	25	28	33	42	29
Methane (%)	52	59.8	50.4	60.2	60.8	60.7	53.1	55.8	63.0	63.5	64.5	44.8	48.7	53.9	55.1	60.4	55.9
Carbon Dioxide (%)	39.1	39.7	36.7	38.6	27.7	38.5	37.5	41.5	36.1	35.2	33.7	35.6	37.6	37.5	42.4	39.3	44
Oxygen (%)	1.9	0.5	0.4	1.1	4	0.6	2.5	0.4	0.7	1.2	1.6	3.6	2.6	2.1	2.4	0.1	0
Balance (%)	7	0	13	0.1	0.2	0.2	6.9	2.3	0.2	0.1	0.2	16	11.1	6.5	0.1	0.2	0.1

LFG WELL 5 (TEST AREA)

Parameter	Jun-04	Sep-04	Oct-04	Nov-04	Dec-04	Jan-05	Feb-05	Mar-05	Apr-05	May-05	Jun-05	Jul-05	Aug-05	Sep-05	Oct-05	Nov-05	Dec-05
Temperature (degrees F)	95	93	93	91	91	93	89	88	82	89	90	92	91	91	89	89	86
Flow Rate (scfm)	34	24	32	38	---	24	32	34	12	0	88	34	26	15	77	36	90
Methane (%)	56.6	58.1	55.7	56.8	59.8	59.2	58.1	57.7	56.8	58.0	55.4	56.9	57.8	57.8	55.2	57	56.5
Carbon Dioxide (%)	43.1	41	44.1	41	39.8	40.7	41.3	41.6	41.5	41.9	38.5	41.3	41	40.8	40.9	41.2	38.9
Oxygen (%)	0.1	0.5	0.1	0.5	0.2	0	0.2	0.4	1.6	0.0	1.8	1.6	0.2	0.6	0.8	0.4	0.9
Balance (%)	0.2	0.4	0.1	1.7	0.2	0.1	0.4	0.3	0.1	0.1	4.3	0.2	1	0.8	3.1	1.4	3.7

LFG WELL 5 (TEST AREA)

Parameter	Feb-06	Mar-06	Apr-06	May-06	Jun-06	Jul-06	Aug-06	Sep-06	Oct-06	Nov-06	Dec-06
Temperature (degrees F)	85	85	87	88	88	88	89	87	87	84	85
Flow Rate (scfm)	85	125	46	89	64	53	93	45	57	43	42
Methane (%)	61.4	59.3	58	57.1	56.1	52.2	54	58	56.7	55.4	55.5
Carbon Dioxide (%)	38.1	40.1	40.1	39.5	40.7	42.2	37.7	41	42.3	41.6	41.5
Oxygen (%)	0.3	0.5	0.3	0.4	0.2	--	--	--	--	--	--
Balance (%)	0.2	0.1	1.6	3	3	5	7.1	0.8	0.8	0.2	2.8

TABLE 4
LANDFILL GAS DATA
(continued)

LFG WELL 6 (TEST AREA)

Parameter	Sep-02	Oct-02	Nov-02	Dec-02	Jan-03	Apr-03	Jun-03	Aug-03	Sep-03	Oct-03	Nov-03	Dec-03	Jan-04	Feb-04	Mar-04	Apr-04	May-04
Temperature (degrees F)	100	111	120	101	56	106	102	111	112	104	74	115	72	74	92	100	92
Flow Rate (scfm)	0	12	59	56	75	21	35	37	12	8	13	0	32	15	23	19	21
Methane (%)	60	48.8	59.8	59.8	56.3	58.9	48.9	46.3	49.6	50.2	44.5	36.7	56.8	61.4	54.2	60.1	56.1
Carbon Dioxide (%)	39	32.8	38.3	38.8	36.7	40.1	37.1	35.9	39.4	39.0	30.2	32.2	43.1	38.3	44.4	39.7	43
Oxygen (%)	0.5	3.6	0.2	1.2	1.2	0.9	2.1	1.8	2.0	1.8	3.6	4.5	0	0.2	1.3	0.1	0.3
Balance (%)	0.5	14.8	2	0.2	5.8	0.1	11.9	16	9.0	9.0	21.7	26.6	0.1	0.1	0.1	0.1	0.6

LFG WELL 6 (TEST AREA)

Parameter	Jun-04	Sep-04	Oct-04	Nov-04	Dec-04	Jan-05	Feb-05	Mar-05	Apr-05	May-05	Jun-05	Jul-05	Aug-05	Sep-05	Oct-05	Nov-05	Dec-05
Temperature (degrees F)	101	100	103	98	103	88	75	60	81.0	80.0	95	100	97	99	91	83	56
Flow Rate (scfm)	23	12	20	13	14	17	14	15	14.0	0.0	85	39	1	54	69	1	74
Methane (%)	57.6	57.8	54.8	57.2	54.4	59.3	52.8	57.3	58.2	58.5	58	48.9	57.8	57.2	57	56.7	58.7
Carbon Dioxide (%)	42.1	41.4	45.1	42.3	34.6	40.3	42.2	42	40.7	40.6	40.8	40.6	41.6	42.4	41.6	42.4	40.7
Oxygen (%)	0.1	0.1	0	0.3	0.4	0.3	4.8	0.5	0.9	0.4	0.5	1.5	0.4	0	0.9	0.5	0.3
Balance (%)	0.2	0.7	0.1	0.2	10.6	0.1	0.2	0.2	0.2	0.5	0.7	9	0.2	0.4	0.5	0.4	0.3

LFG WELL 6 (TEST AREA)

Parameter	Feb-06	Mar-06	Apr-06	May-06	Jun-06	Jul-06	Aug-06	Sep-06	Oct-06	Nov-06	Dec-06
Temperature (degrees F)	48	63	67	87	92	75	93	78	77	82	80
Flow Rate (scfm)	3	63	18	80	46	165	0	13	0	42	40
Methane (%)	58.4	44.7	38.4	49.9	45.2	56.5	48.9	54.3	48.8	56.7	55.4
Carbon Dioxide (%)	38	37.3	33.4	35.4	34.5	42.4	37.5	40.2	36.4	40.8	40.1
Oxygen (%)	1.1	1.1	2.9	1.8	2.5	--	--	--	--	--	--
Balance (%)	2.5	16.9	25.3	12.9	17.8	0.8	11.9	4.7	13	2.3	4

TABLE 4
LANDFILL GAS DATA
(continued)

LFG WELL 7 (TEST AREA)

Parameter	Sep-02	Oct-02	Nov-02	Dec-02	Jan-03	Apr-03	Jun-03	Aug-03	Sep-03	Oct-03	Nov-03	Dec-03	Jan-04	Feb-04	Mar-04	Apr-04	May-04
Temperature (degrees F)	110	100	81	100	82	99	92	100	98	98	97	96	96	95	96	91	99
Flow Rate (scfm)	23	38	64	76	92	56	81	59	65	64	72	61	34	57	57	65	56
Methane (%)	53	61.8	62.8	65.2	61.1	58.8	57.3	57.3	55.5	58.9	58.5	43.3	42	60	54.9	60	56
Carbon Dioxide (%)	46.2	38.1	36.9	34.7	38.6	40.4	38.4	35.4	43.5	39.7	39.1	36	34.8	39	43.6	39.9	43.7
Oxygen (%)	0.8	0.1	0.2	0	0.2	0.6	1.1	1	0.8	1.3	1.3	3.4	3.5	0.9	1.4	0	0.1
Balance (%)	0	0	0	0.1	0.1	0.2	3.2	6.3	0.2	0.1	1.1	17.3	19.7	0.1	0.1	0.1	0.2

LFG WELL 7 (TEST AREA)

Parameter	Jun-04	Sep-04	Oct-04	Nov-04	Dec-04	Jan-05	Feb-05	Mar-05	Apr-05	May-05	Jun-05	Jul-05	Aug-05	Sep-05	Oct-05	Nov-05	Dec-05
Temperature (degrees F)	99	97	98	97	103	88	95	93	96	95	96	98	96	97	95	89	91
Flow Rate (scfm)	57	51	65	78	52	88	87	85	145	75	112	88	98	90	113	109	128
Methane (%)	56.1	58.5	55	57.5	56.7	57.2	56.9	56.7	56.7	57.6	57.4	58.1	56.3	56.4	52.4	53.3	52.8
Carbon Dioxide (%)	43.8	40.9	44.6	41.6	43	42.2	41.6	42.7	41.5	41.9	39.8	41.4	41.6	43.2	41.1	42.1	38.8
Oxygen (%)	0	0.1	0.2	0.7	0.1	0.5	0.5	0.5	0.1	0.3	1.1	0.2	0.6	0.3	1.2	0.9	1.4
Balance (%)	0.1	0.5	0.2	0.2	0.2	0.1	1	0.1	1.7	0.2	1.7	0.3	1.5	0.1	5.3	3.7	7

LFG WELL 7 (TEST AREA)

Parameter	Feb-06	Mar-06	Apr-06	May-06	Jun-06	Jul-06	Aug-06	Sep-06	Oct-06	Nov-06	Dec-06
Temperature (degrees F)	51	91	94	99	99	90	103	101	96	60	80
Flow Rate (scfm)	42	39	35	89	70	165	27	33	29	0	51
Methane (%)	59.1	58.6	57.5	54.9	55.6	56.2	54	56.2	54.9	48.8	49.3
Carbon Dioxide (%)	37.6	40.5	41.8	40.3	42.9	43.2	43.1	43.3	42.1	34.1	35.1
Oxygen (%)	1.1	0.3	0.3	0.6	0	--	--	--	--	--	--
Balance (%)	2.2	0.6	0.4	4.2	1.5	0.1	2.5	0.2	2.6	14.8	13.8

TABLE 4
LANDFILL GAS DATA
(continued)

LFG WELL 8 (TEST AREA)

Parameter	Sep-02	Oct-02	Nov-02	Dec-02	Jan-03	Apr-03	Jun-03	Aug-03	Sep-03	Oct-03	Nov-03	Dec-03	Jan-04	Feb-04	Mar-04	Apr-04	May-04
Temperature (degrees F)	115	67	78	90	82	101	92	107	95.0	107.0	93	84	99	98	86	95	90
Flow Rate (scfm)	33	18	51	39	87	48	81	52	49.0	48.0	52	19	37	46	43	51	35
Methane (%)	59	60.7	65.2	63.9	60.8	60	57.3	56.9	61.6	60.3	63.3	45.9	47.8	52.7	52.5	59.5	54.4
Carbon Dioxide (%)	39.9	38.8	33.5	35.9	38.6	39.4	38.4	38.7	37.8	38.1	35.5	37.3	38.5	37.3	45.5	40.4	45.3
Oxygen (%)	1.1	0.5	1.1	0.1	0.6	0.4	1.1	0.6	0.5	1.4	1	3.3	2.7	2.5	1.9	0	0.1
Balance (%)	0	0	0	0.1	0	0.2	3.2	3.8	0.1	0.2	0.2	13.5	11	7.5	0.1	0.1	0.2

LFG WELL 8 (TEST AREA)

Parameter	Jun-04	Sep-04	Oct-04	Nov-04	Dec-04	Jan-05	Feb-05	Mar-05	Apr-05	May-05	Jun-05	Jul-05	Aug-05	Sep-05	Oct-05	Nov-05	Dec-05
Temperature (degrees F)	90	77	88	99	96	111	68	47	84.0	71	92	99	93	92	80	72	56
Flow Rate (scfm)	34	30	29	40	---	49	30	27	130.0	17	84	41	1	56	66	43	50
Methane (%)	55.4	57.3	55.1	55.6	59.3	56.3	57.2	56.6	57.0	57.7	57.9	56.9	56.5	57	54.7	54.7	58.6
Carbon Dioxide (%)	44.2	41.8	44.7	41.2	39.9	43.4	42.3	43	41.0	41.8	40.8	42.5	41.7	42.8	41.6	42.5	39.4
Oxygen (%)	0.2	0.2	0	0.8	0.6	0.1	0.3	0.2	0.6	0.3	0.7	0.4	0.5	0.1	0.8	0.5	1.7
Balance (%)	0.2	0.7	0.2	2.4	0.2	0.2	0.2	0.2	1.4	0.2	0.6	0.2	1.3	0.1	2.9	2.3	0.3

LFG WELL 8 (TEST AREA)

Parameter	Feb-06	Mar-06	Apr-06	May-06	Jun-06	Jul-06	Aug-06	Sep-06	Oct-06	Nov-06	Dec-06
Temperature (degrees F)	42	63	63	81	90	75	88	74	74	58	89
Flow Rate (scfm)	56	21	24	79	67	166	31	25	38	68	67
Methane (%)	61.6	58	57.6	55.2	56.4	56.7	55.7	57.9	55.5	56.2	55.7
Carbon Dioxide (%)	37.7	41.4	42.3	40.1	43.5	43.2	39.6	39.1	40.6	37.8	37.4
Oxygen (%)	0.6	0.4	0	0.7	0	--	--	--	--	--	--
Balance (%)	0.1	0.2	0.1	4	0.1	0.1	4	2.3	3.4	5.1	6

TABLE 4
LANDFILL GAS DATA
(continued)

LFG WELL 9 (TEST AREA)

Parameter	Sep-02	Oct-02	Nov-02	Dec-02	Jan-03	Apr-03	Jun-03	Aug-03	Sep-03	Oct-03	Nov-03	Dec-03	Jan-04	Feb-04	Mar-04	Apr-04	May-04
Temperature (degrees F)	110	66	80	110	110	97	92	104	61	83	77	59	58	47	92	95	75
Flow Rate (scfm)	31	45	10	66	81	42	62	40	43	41	44	13	17	18	24	34	13
Methane (%)	60	63.1	60.8	63.7	50.4	61.2	56.4	60.7	60.1	66.3	60.2	47.5	46.9	49	51.9	60.2	53.4
Carbon Dioxide (%)	39.6	36.5	38.6	35.9	34.9	38	39.5	36.6	37.9	32.6	38.1	38.1	36.4	35.9	41.6	39.7	42.5
Oxygen (%)	0.4	0.4	0.5	0.3	9.8	0.7	1	1	1.9	0.9	1.6	3	3.4	3.5	4.1	0	1.5
Balance (%)	0	0	0	0.1	4.9	0.1	3.1	1.7	0.1	0.2	0.1	11.4	13.3	11.6	2.4	0.1	2.6

LFG WELL 9 (TEST AREA)

Parameter	Jun-04	Sep-04	Oct-04	Nov-04	Dec-04	Jan-05	Feb-05	Mar-05	Apr-05	May-05	Jun-05	Jul-05	Aug-05	Sep-05	Oct-05	Nov-05	Dec-05
Temperature (degrees F)	98	88	84	94	92	100	93	87	82	78	92	86	84	92	95	99	43
Flow Rate (scfm)	19	14	18	28	---	26	17	21	36	9	1	2	39	56	60	73	35
Methane (%)	57.8	57.9	56.2	54.7	58.1	59.2	57	56.9	57.3	55.6	55.8	56.6	57.6	56.2	55	53.7	52.8
Carbon Dioxide (%)	41.7	41.4	42.9	41.9	39.1	40.7	42.7	42.5	41.7	40.2	42.8	41.4	42	41.3	40.6	39.9	38.1
Oxygen (%)	0.4	0	0.8	1.1	0.7	0	0.1	0.5	0.4	1.0	1.2	0.8	0.2	0.5	1.1	1.5	1.9
Balance (%)	0.1	0.7	0.1	2.3	2.1	0.1	0.2	0.1	0.6	3.2	0.2	1.2	0.2	2	3.3	4.9	7.2

LFG WELL 9 (TEST AREA)

Parameter	Feb-06	Mar-06	Apr-06	May-06	Jun-06	Jul-06	Aug-06	Sep-06	Oct-06	Nov-06	Dec-06
Temperature (degrees F)	53	66	69	78	79	74	85	68	70	44	98
Flow Rate (scfm)	18	0	32	84	49	167	32	15	38	34	38
Methane (%)	61	54.9	55.1	50.8	49.9	56	55.8	56.3	52.3	54.8	54.6
Carbon Dioxide (%)	38.2	40.5	38.2	36.1	37.3	40.4	38.6	40.3	36.7	38.8	38.9
Oxygen (%)	0.6	0.8	1.3	1.7	1.4	--	--	--	--	--	--
Balance (%)	0.2	3.8	5.4	11.4	11.4	3	5.1	3.1	9.7	5.6	6.42

TABLE 4
LANDFILL GAS DATA
(continued)

LFG WELL 10 (TEST AREA)

Parameter	Sep-02	Oct-02	Nov-02	Dec-02	Jan-03	Apr-03	Jun-03	Aug-03	Sep-03	Oct-03	Nov-03	Dec-03	Jan-04	Feb-04	Mar-04	Apr-04	May-04
Temperature (degrees F)	109	114	80	110	92	103	95	119	100	100	117	108	100	105	99	98	103
Flow Rate (scfm)	40	55	36	36	81	63	41	50	89	48	91	27	31	26	32	37	26
Methane (%)	50	49.9	60.8	56.9	57.3	51.9	53.1	48.7	53.3	52.6	41.2	51.9	48.3	51.2	55.5	62.3	57.5
Carbon Dioxide (%)	41	33.3	38.6	39.5	38.5	39.4	37.5	34.4	40.9	39.5	29.7	40.9	37.5	36.4	42.6	37.4	42.4
Oxygen (%)	1	3	0.5	1	0.7	2.2	2.5	1.8	2.2	2.1	4.6	1.1	2.7	3.6	1.7	0.1	0
Balance (%)	8	13.8	0	2.6	3.5	6.5	6.9	15.1	3.6	5.8	24.5	6.1	11.5	8.8	0.2	0.2	0.1

LFG WELL 10 (TEST AREA)

Parameter	Jun-04	Sep-04	Oct-04	Nov-04	Dec-04	Jan-05	Feb-05	Mar-05	Apr-05	May-05	Jun-05	Jul-05	Aug-05	Sep-05	Oct-05	Nov-05	Dec-05
Temperature (degrees F)	105	103	104	105	104	100	105	105	86	106	110	103	113	116	116	110	121
Flow Rate (scfm)	30	22	26	40	---	46	53	45	63	41	95	24	47	36	84	31	96
Methane (%)	56.7	58.2	56.2	51.6	57.3	50.9	49.5	51.4	50.1	56.1	49.1	56.1	48.4	48.4	41.7	57.4	58.6
Carbon Dioxide (%)	43.2	40.3	43.7	39.3	38.8	36.2	38.2	39.6	37.1	41.0	36.5	39.2	36.5	37.4	34	39.4	39.6
Oxygen (%)	0	0.2	0	1	0.3	1.2	1.4	0.9	1.7	0.4	1.7	0.6	1.7	1.6	3.2	0.4	1.7
Balance (%)	0.1	1.3	0.1	8.1	3.6	11.7	10.9	8.1	11.1	2.5	12.7	4.1	13.4	12.6	21.1	2.8	0.1

LFG WELL 10 (TEST AREA)

Parameter	Feb-06	Mar-06	Apr-06	May-06	Jun-06	Jul-06	Aug-06	Sep-06	Oct-06	Nov-06	Dec-06
Temperature (degrees F)	103	103	103	107	107	107	112	66	108	105	105
Flow Rate (scfm)	78	19	45	96	71	42	48	120	48	39	39
Methane (%)	58.9	54.2	47.6	53.1	52.1	56.6	40.7	57.6	54.5	54.7	54.5
Carbon Dioxide (%)	39.5	39.3	34.9	36.6	37.9	41.8	32.7	41.6	39.8	39.2	39.1
Oxygen (%)	0.3	0.8	2.4	0.6	0.7	--	--	--	--	--	--
Balance (%)	1.3	5.7	15.1	9.7	9.3	1.3	24.4	0.1	5.5	5.3	5.7

TABLE 4
LANDFILL GAS DATA
(continued)

LFG WELL 11 (CONTROL AREA)

Parameter	Sep-02	Oct-02	Nov-02	Dec-02	Jan-03	Apr-03	Jun-03	Aug-03	Sep-03	Oct-03	Nov-03	Dec-03	Jan-04	Feb-04	Mar-04	Apr-04	May-04
Temperature (degrees F)	119	98	101	100	94	95	98	115	93	105	84	56	79	64	113	99	93
Flow Rate (scfm)	25	48	56	77	72	49	50	40	81	29	96	16	23	12	32	20	32
Methane (%)	58	60.2	57.8	61.6	60.8	58.3	52.6	55.2	62.1	64.0	58.2	42.3	54	48.7	52	58	54
Carbon Dioxide (%)	41.7	39.3	40.3	37.6	38.5	40.5	36	36.2	36.9	34.8	39.7	34.3	42.7	34.9	46.3	34.3	45.8
Oxygen (%)	0.3	0.5	0.9	0.6	0.5	1.1	2.8	1.1	0.8	1.1	2	5.2	0.7	3.8	1.6	0.1	0
Balance (%)	0	0	1	0.2	0.2	0.1	8.6	7.5	0.2	0.1	0.1	18.2	2.6	12.6	0.1	7.6	0.2

LFG WELL 11 (CONTROL AREA)

Parameter	Jun-04	Sep-04	Oct-04	Nov-04	Dec-04	Jan-05	Feb-05	Mar-05	Apr-05	May-05	Jun-05	Jul-05	Aug-05	Sep-05	Oct-05	Nov-05	Dec-05
Temperature (degrees F)	95	88	93	90	88	80	70	46	82	72	87	104	94	83	86	69	110
Flow Rate (scfm)	17	12	48		---	24	8	0	0	6	84	36	7	112	3	1	92
Methane (%)	54.3	56.9	56.5	54.3	60.5	59	57.3	48.9	57.0	43.1	45.8	56.6	43	49.3	44.9	58.1	49.5
Carbon Dioxide (%)	42.5	40	43.2	40.6	38.5	40.9	42.2	34.4	40.9	34.1	33.4	37.5	30	38.7	35.1	41.5	36.4
Oxygen (%)	1.2	0.5	0.1	1	0.8	0	0.4	4.3	0.9	4.2	4.1	0.9	4.8	1.1	3.8	0.3	1.3
Balance (%)	2	2.6	0.2	4.1	0.2	0.1	0.1	12.4	1.2	18.6	16.7	5	22.2	10.9	16.2	0.1	12.8

LFG WELL 11 (CONTROL AREA)

Parameter	Feb-06	Mar-06	Apr-06	May-06	Jun-06	Jul-06	Aug-06	Sep-06	Oct-06	Nov-06	Dec-06
Temperature (degrees F)	46	64	62	69	83	75	91	68	73	71	81
Flow Rate (scfm)	0	0	169	60	64	19	3	21	5	0	0
Methane (%)	53.1	49.9	57.7	58.7	50.3	55.7	50.3	58.7	58.6	54.9	55
Carbon Dioxide (%)	35.5	37.9	35	41.2	36.3	42.4	36.4	40.8	41	32.3	32
Oxygen (%)	2.7	2.1	1.1	0	1.6	--	--	--	--	--	--
Balance (%)	8.7	10.1	6.2	0.1	11.8	1.3	12.1	0.2	0.1	9.6	10.9

TABLE 4
LANDFILL GAS DATA
(continued)

LFG WELL 12 (IN CONTROL AREA, BUT NEAR APPLICATION TRENCHES)

Parameter	Sep-02	Oct-02	Nov-02	Dec-02	Jan-03	Apr-03	Jun-03	Aug-03	Sep-03	Oct-03	Nov-03	Dec-03	Jan-04	Feb-04	Mar-04	Apr-04	May-04
Temperature (degrees F)	115	119	84	100	77	110	111	110	106	112	71	116	116	123	98	112	110
Flow Rate (scfm)	35	54	102	66	85	31	59	47	101	65	69	44	45	27	42	34	21
Methane (%)	61	60.4	62.1	61	52.5	60.6	56.5	57.5	57.6	65.3	64.8	47.5	44	53.7	54.8	55.4	56.3
Carbon Dioxide (%)	38.6	39.2	37.3	38.5	36.9	38.6	35.9	36.5	41.2	33.6	34	37.5	34.4	37.6	44.8	33.9	43.6
Oxygen (%)	0.4	0.4	0.4	0.3	0.1	0.7	1.8	0.8	1.1	0.9	1.1	3.1	4.6	2.4	0.2	0.3	0
Balance (%)	0	0	0	0.2	10.5	0.1	5.8	5.2	0.1	0.2	0.1	11.9	17	6.3	0.2	10.4	0.1

LFG WELL 12 (IN CONTROL AREA, BUT NEAR APPLICATION TRENCHES)

Parameter	Jun-04	Sep-04	Oct-04	Nov-04	Dec-04	Jan-05	Feb-05	Mar-05	Apr-05	May-05	Jun-05	Jul-05	Aug-05	Sep-05	Oct-05	Nov-05	Dec-05
Temperature (degrees F)	119	113	117	91	86	85	113	112	91	115	115	90	83	88	60	73	33
Flow Rate (scfm)	27	37	29	34	32	0	20	32	24	26	87	36	8	59	31	29	118
Methane (%)	57.5	58.2	55	57.3	55.3	56.7	58	57.6	56.6	58.4	59.5	51.8	58.5	56.3	44.9	54.9	55.5
Carbon Dioxide (%)	42.2	40.9	44.9	41.9	43	43	41.1	41.5	40.2	41.1	38.8	37	40.8	40.2	38.3	40	43.6
Oxygen (%)	0.1	0.1	0	0.4	1	0.2	0.5	0.8	2.6	0.4	1.1	2.1	0.5	1.1	1.4	1	0.8
Balance (%)	0.2	0.8	0.1	0.4	0.7	0.1	0.4	0.1	0.6	0.1	0.6	9.1	0.2	2.4	15.4	4.1	0.1

LFG WELL 12 (IN CONTROL AREA, BUT NEAR APPLICATION TRENCHES)

Parameter	Feb-06	Mar-06	Apr-06	May-06	Jun-06	Jul-06	Aug-06	Sep-06	Oct-06	Nov-06	Dec-06
Temperature (degrees F)	51	53	93	64	72	74	92	67	67	49	70
Flow Rate (scfm)	37	0	16	60	58	7	0	14	15	0	0
Methane (%)	55.2	55.7	54.7	45.5	38.8	46.9	40.5	0.5	2.6	0	29
Carbon Dioxide (%)	35.2	39.8	40.1	35	31.4	38.9	28.8	1	5.5	0.5	41
Oxygen (%)	2.1	1.1	1.1	2.5	3.6	--	--	--	--	--	--
Balance (%)	7.5	3.4	4.1	17	26.2	13.1	25.8	77.5	73	78.4	25.2

TABLE 4
LANDFILL GAS DATA
(continued)

LFG WELL 13 (IN CONTROL AREA, BUT NEAR APPLICATION TRENCHES)

Parameter	Sep-02	Oct-02	Nov-02	Dec-02	Jan-03	Apr-03	Jun-03	Aug-03	Sep-03	Oct-03	Nov-03	Dec-03	Jan-04	Feb-04	Mar-04	Apr-04	May-04
Temperature (degrees F)	110	75	94	100	99	108	109	124	91	117	68	112	99	103	118	102	87
Flow Rate (scfm)	40	61	41	76	65	59	82	57	109	50	69	53	66	42	64	51	36
Methane (%)	60	61.3	62.3	60.4	56.3	59.1	57.3	57.1	55.1	63.7	64.6	46.5	47.2	53	57.8	61.5	54.3
Carbon Dioxide (%)	39.5	38.1	37.2	38.9	36.7	40.2	37.2	35.3	41.1	35.0	33.6	37.4	34.8	36.5	41.4	38.3	42.9
Oxygen (%)	0.5	0.6	0.4	0.5	1.2	0.6	1.4	0.9	1.4	1.1	1.7	3.2	3.8	2.7	0.7	0	1
Balance (%)	0	0	0	0.2	5.8	0.1	4.1	6.7	2.4	0.2	0.1	12.9	14.2	7.8	0.1	0.2	1.8

LFG WELL 13 (IN CONTROL AREA, BUT NEAR APPLICATION TRENCHES)

Parameter	Jun-04	Sep-04	Oct-04	Nov-04	Dec-04	Jan-05	Feb-05	Mar-05	Apr-05	May-05	Jun-05	Jul-05	Aug-05	Sep-05	Oct-05	Nov-05	Dec-05
Temperature (degrees F)	114	93	89	96	111	96	104	108	83	114	93	119	116	118	79	79	104
Flow Rate (scfm)	20	121	24	11	4	33	8	21	40	30	86	33	12	61	59	52	105
Methane (%)	58.4	55.9	55.6	56.7	56.3	57	54.3	57.6	57.3	59.0	57.5	57.2	58.2	57.6	57.5	57.2	57.5
Carbon Dioxide (%)	41.3	38.5	44.3	41.8	42.3	42.9	42	41.9	41.3	40.3	39.7	38.6	41.1	40.5	41.4	41.3	41.7
Oxygen (%)	0.2	1.1	0	0.3	0.5	0	3.5	0	1.3	0.5	0.6	0.8	0.6	0.5	1	0.9	0.6
Balance (%)	0.1	4.5	0.1	1.2	0.9	0.1	0.2	0.5	0.1	0.2	2.2	3.4	0.1	1.4	0.1	0.6	0.2

LFG WELL 13 (IN CONTROL AREA, BUT NEAR APPLICATION TRENCHES)

Parameter	Feb-06	Mar-06	Apr-06	May-06	Jun-06	Jul-06	Aug-06	Sep-06	Oct-06	Nov-06	Dec-06
Temperature (degrees F)	109	114	90	116	120	119	122	119	98	103	104
Flow Rate (scfm)	77	55	52	78	70	67	21	50	66	67	76
Methane (%)	60.8	58.4	58.6	57.6	57.1	58.4	57.2	56.8	56.9	53.3	54
Carbon Dioxide (%)	39	41.2	41.1	42.3	41.4	41.2	39	43.1	42.6	39.1	40
Oxygen (%)	0.1	0.2	0.1	0	0.1	--	--	--	--	--	--
Balance (%)	0.1	0.2	0.2	0.1	1.4	0.2	3.3	0.1	0.5	6.5	5

TABLE 4
LANDFILL GAS DATA
(continued)

LFG WELL 14 (CONTROL AREA)

Parameter	Sep-02	Oct-02	Nov-02	Dec-02	Jan-03	Apr-03	Jun-03	Aug-03	Sep-03	Oct-03	Nov-03	Dec-03	Jan-04	Feb-04	Mar-04	Apr-04	May-04
Temperature (degrees F)	109	71	107	90	96	92	104	122	90	114	89	75	72	77	100	101	95
Flow Rate (scfm)	19	36	60	62	79	34	53	39	24	23	94	4	13	16	20	36	20
Methane (%)	56	66.7	59.7	62.2	61.1	56.2	58	59.3	60.5	59.0	60.2	42.6	48.4	57.4	54.5	62.5	54.8
Carbon Dioxide (%)	41.9	33.1	39.3	36.7	38.6	39.7	32.9	35.2	38.3	38.9	38	34.3	34.7	38.7	44	37.4	44.9
Oxygen (%)	1	0.2	0.8	1	0.2	2.2	2.5	0.9	1.0	2.0	1.6	4.9	3.5	1.6	1.4	0	0.2
Balance (%)	1.1	0	0	0.1	0.1	1.9	6.6	4.6	0.2	0.1	0.2	18.2	13.4	2.3	0.1	0.1	0.1

LFG WELL 14 (CONTROL AREA)

Parameter	Jun-04	Sep-04	Oct-04	Nov-04	Dec-04	Jan-05	Feb-05	Mar-05	Apr-05	May-05	Jun-05	Jul-05	Aug-05	Sep-05	Oct-05	Nov-05	Dec-05
Temperature (degrees F)	103	86	94	118	114	102	62	88	113	90	96	106	77	102	86	86	87
Flow Rate (scfm)	18	10	15	21	---	34	24	29	93	14	84	30	9	54	30	16	95
Methane (%)	58	57.6	54.5	50	57.2	56.7	56	56.1	57.3	55.4	52.7	52.9	41.7	54.6	53.7	52.2	44.1
Carbon Dioxide (%)	41.4	41.5	41.2	39.8	39.1	42.5	40.8	41.7	39.3	40.1	37.1	38.7	33.9	40.4	38.7	39.2	32.3
Oxygen (%)	0.5	0.8	0.7	1.6	1	0.6	1.1	0.7	0.9	1.0	2.2	1.6	3.6	1.1	1.6	1.5	4.7
Balance (%)	0.1	0.1	3.6	8.6	2.7	0.2	2.1	1.5	2.5	3.5	8	6.8	20.8	3.9	6	7.1	18.9

LFG WELL 14 (CONTROL AREA)

Parameter	Feb-06	Mar-06	Apr-06	May-06	Jun-06	Jul-06	Aug-06	Sep-06	Oct-06	Nov-06	Dec-06
Temperature (degrees F)	82	53	80	71	84	80	90	72	69	54	86
Flow Rate (scfm)	52	0	13	56	42	31	25	18	39	0	0
Methane (%)	53.1	51	54.1	49.2	46.2	52.6	52.3	54.2	52.9	52.5	53
Carbon Dioxide (%)	36.2	37.8	39.1	35.3	37.3	39	36.4	38.7	35.9	33.4	33.2
Oxygen (%)	2	1.9	1.3	2	1.9	--	--	--	--	--	--
Balance (%)	8.7	9.3	5.5	13.5	14.6	7.3	9.5	6.3	9.8	12.1	12.8

TABLE 4
LANDFILL GAS DATA
(continued)

LFG WELL 15 (CONTROL AREA)

Parameter	Sep-02	Oct-02	Nov-02	Dec-02	Jan-03	Apr-03	Jun-03	Aug-03	Sep-03	Oct-03	Nov-03	Dec-03	Jan-04	Feb-04	Mar-04	Apr-04	May-04
Temperature (degrees F)	111	73	93	79	99	88	75	117	77	69	83	61	70	71	79	101	90
Flow Rate (scfm)	22	49	49	46	79	21	60	21	71	4	87	25	19	2	17	23	29
Methane (%)	54	56.7	56.7	51	56.8	59.1	51.7	50.7	60.7	61.9	44.1	51.8	45.6	46.9	53.3	61.1	56.2
Carbon Dioxide (%)	40.6	41.3	38.6	36.4	36.9	39.6	37.2	40.5	37.5	36.7	31.4	40.2	33.4	34.2	45.6	38.8	43.3
Oxygen (%)	0.6	0.4	1.9	1.7	0.5	1.1	2.9	0.9	1.6	1.2	4.8	1.6	4.7	4.2	1	0	0.3
Balance (%)	4.8	1.6	3	10.9	5.8	0.2	8.2	7.9	0.2	0.2	19.7	6.4	16.3	14.7	0.1	0.1	0.2

LFG WELL 15 (CONTROL AREA)

Parameter	Jun-04	Sep-04	Oct-04	Nov-04	Dec-04	Jan-05	Feb-05	Mar-05	Apr-05	May-05	Jun-05	Jul-05	Aug-05	Sep-05	Oct-05	Nov-05	Dec-05
Temperature (degrees F)	93	77	79	90	88	70	65	69	90	78	94	98	81	98	81	83	101
Flow Rate (scfm)	26	17	22	89	---	6	4	7	0	5	82	38	1	6	3	1	68
Methane (%)	58	56.8	56.1	55.7	60	58.7	56.1	58.7	58.2	58.2	51.3	58.3	45.3	58.8	57.8	57.3	59.5
Carbon Dioxide (%)	41.6	39.7	41.4	41.1	37.5	41.2	41.1	40.8	40.1	41.3	34.3	40.7	31.9	40.7	41.2	40.4	39.4
Oxygen (%)	0.3	0.5	1	0.7	0.6	0	2.6	0.3	0.9	0.3	2.1	0.2	4	0.3	0.8	0.8	0.9
Balance (%)	0.1	3	1.5	2.5	1.9	0.1	0.2	0.2	0.8	0.2	12.3	0.8	18.8	0.2	0.2	1.5	0.2

LFG WELL 15 (CONTROL AREA)

Parameter	Feb-06	Mar-06	Apr-06	May-06	Jun-06	Jul-06	Aug-06	Sep-06	Oct-06	Nov-06	Dec-06
Temperature (degrees F)	53	58	62	73	81	101	88	75	87	48	89
Flow Rate (scfm)	19	0	24	89	5	48	12	65	15	6	5
Methane (%)	56.5	47.5	58.3	38.6	43.3	55.1	54.7	58	55.5	48.4	49.4
Carbon Dioxide (%)	36.1	36.4	38	28.3	29.6	41.9	33	40.1	40.4	33.1	32.1
Oxygen (%)	1.6	0.8	1.1	3.9	3.2	--	--	--	--	--	--
Balance (%)	5.8	15.3	2.6	29.2	23.9	2.7	11.3	1.7	3.5	16	16.3

TABLE 4
LANDFILL GAS DATA
(continued)

LFG WELL 16 (CONTROL AREA)

Parameter	Sep-02	Oct-02	Nov-02	Dec-02	Jan-03	Apr-03	Jun-03	Aug-03	Sep-03	Oct-03	Nov-03	Dec-03	Jan-04	Feb-04	Mar-04	Apr-04	May-04
Temperature (degrees F)	90	94	61	110	62	79	91	106	67	62	87	43	45	56	56	72	90
Flow Rate (scfm)	0	12	65.4	52	79	9	66	73	89	61	89	0	21	10	13	15	30
Methane (%)	53	57.6	57.2	58	60.8	48.7	60.3	41.7	46.7	29.6	53.9	1.3	57.9	53.8	50.4	50	53.8
Carbon Dioxide (%)	40	40.5	41.3	41.2	38.5	36.2	35.3	34.7	34.4	32.7	37.2	0.8	41.6	40.4	42.2	34.1	45.9
Oxygen (%)	1.7	0.8	1.3	0.7	0.6	4.9	2.7	3.8	3.4	4.3	2.9	21.8	0.4	1	3.5	1.7	0.1
Balance (%)	5.3	1.1	0	0.1	0.1	10.2	1.7	19.8	15.5	33.4	6	76.1	0.1	4.8	3.9	14.2	0.2

LFG WELL 16 (CONTROL AREA)

Parameter	Jun-04	Sep-04	Oct-04	Nov-04	Dec-04	Jan-05	Feb-05	Mar-05	Apr-05	May-05	Jun-05	Jul-05	Aug-05	Sep-05	Oct-05	Nov-05	Dec-05
Temperature (degrees F)	95	72	85	61	73	78	57	104	83	105	87	89	95	85	53	83	50
Flow Rate (scfm)	18	9	28	5	---	0	0	0	0	308	114	90	104	57	32	81	1
Methane (%)	45.3	55.3	55.4	55.7	55.3	56.9	35	57.3	56.4	53.7	48.7	50.8	57.9	45.7	47.6	41.2	52.1
Carbon Dioxide (%)	36.9	40.8	44.2	43	40.8	42.5	32.3	42.1	43.1	39.5	35.9	39.1	39.6	32.9	34.6	31	36.6
Oxygen (%)	4	0.8	0.3	1.1	0.8	0.4	4.7	0.4	0.3	0.8	3.1	3.9	1	4.7	3.3	4.4	3.1
Balance (%)	13.8	3.1	0.1	0.2	3.1	0.2	28	0.2	0.2	6.0	12.3	6.2	1.5	16.7	14.5	23.4	8.2

LFG WELL 16 (CONTROL AREA)

Parameter	Feb-06	Mar-06	Apr-06	May-06	Jun-06	Jul-06	Aug-06	Sep-06	Oct-06	Nov-06	Dec-06
Temperature (degrees F)	83	52	62	74	87	82	96	97	48	49	--
Flow Rate (scfm)	29	0	0	85	57	2	0	34	20	0	--
Methane (%)	53.3	34.3	21.3	39	32.4	54.4	53.6	49.4	38.2	0.3	--
Carbon Dioxide (%)	36.1	36.5	28.2	28.1	29.8	39	33.6	40.2	25.8	7.5	--
Oxygen (%)	2.4	3.6	3.4	4	3.6	--	--	--	--	--	--
Balance (%)	8.2	25.6	47.1	28.9	34.2	5.6	11.2	9.9	31.2	74.4	--

TABLE 4
LANDFILL GAS DATA
(continued)

LFG WELL 17 (CONTROL AREA)

Parameter	Sep-02	Oct-02	Nov-02	Dec-02	Jan-03	Apr-03	Jun-03	Aug-03	Sep-03	Oct-03	Nov-03	Dec-03	Jan-04	Feb-04	Mar-04	Apr-04	May-04
Temperature (degrees F)	90	83	90	96	97	99	98	118	86	70	87	55	74	72	119	86	82
Flow Rate (scfm)	30	48	51	69	43	39	13	31	91	8	95	18	7	13	15	20	9
Methane (%)	52	54.1	59	55.5	54.6	53.8	53.3	57	58.9	61.9	64.8	45.5	48.3	48.8	54.3	60.1	56.5
Carbon Dioxide (%)	39.4	39.2	39.6	37.1	37.5	39.1	37	36.2	40.2	36.6	33.5	36.7	35.7	33.7	43.9	39.8	42.8
Oxygen (%)	0.8	0.4	1.2	0.4	1.3	1.4	2.3	0.7	0.8	1.3	1.5	3.7	3.5	4.1	1.7	0	0.5
Balance (%)	7.8	6.3	0	7	6.6	5.7	7.4	6.1	0.1	0.2	0.2	14.1	12.5	13.4	0.1	0.1	0.2

LFG WELL 17 (CONTROL AREA)

Parameter	Jun-04	Sep-04	Oct-04	Nov-04	Dec-04	Jan-05	Feb-05	Mar-05	Apr-05	May-05	Jun-05	Jul-05	Aug-05	Sep-05	Oct-05	Nov-05	Dec-05
Temperature (degrees F)	96	95	96	118	94	96	103	85	92	91	88	99	101	111	67	87	54
Flow Rate (scfm)	19	5	25	17	---	0	0	15	21	0	85	29	1	1	44	1	101
Methane (%)	57.3	56	56.9	53.9	59.5	53.4	57.2	57.2	56.2	58.1	59.5	52.6	52.4	52.9	48.8	49.7	56.8
Carbon Dioxide (%)	41.7	40.2	42	40.2	40.4	41.7	41.9	42.3	39.3	40.2	38.8	37.9	36.2	38	39.9	36.1	37.4
Oxygen (%)	0.9	1	0.8	1.2	0	0	0.8	0.4	0.9	0.5	1.1	1.6	2.5	1.9	2	2.6	1.8
Balance (%)	0.1	2.8	0.3	4.7	0.1	4.9	0.1	0.1	3.6	1.2	0.6	7.9	8.9	7.2	9.3	11.6	4

LFG WELL 17 (CONTROL AREA)

Parameter	Feb-06	Mar-06	Apr-06	May-06	Jun-06	Jul-06	Aug-06	Sep-06	Oct-06	Nov-06	Dec-06
Temperature (degrees F)	62	57	68	65	86	94	88	64	66	53	78
Flow Rate (scfm)	61	0	35	58	61	0	5	5	0	0	0
Methane (%)	65.7	58.8	30.1	39.6	57.7	50.8	43.3	45	35.2	43.2	48.5
Carbon Dioxide (%)	31.6	40.8	31.7	32.1	41	35.6	29.7	28.2	25.7	32.6	36.5
Oxygen (%)	2.5	0.2	3.9	3.5	0.1	--	--	--	--	--	--
Balance (%)	0.2	0.2	34.3	24.8	1.2	12	23.7	23.1	34.6	21.3	14

TABLE 4
LANDFILL GAS DATA
(continued)

LFG WELL 18 (CONTROL AREA)

Parameter	Sep-02	Oct-02	Nov-02	Dec-02	Jan-03	Apr-03	Jun-03	Aug-03	Sep-03	Oct-03	Nov-03	Dec-03	Jan-04	Feb-04	Mar-04	Apr-04	May-04
Temperature (degrees F)	109	93	103	103	70	101	117	115	92	100	78	118	87	50	118	95	119
Flow Rate (scfm)	10	25	23	60	72	22	24	30	93	12	96	69	14	13	19	21	27
Methane (%)	58	63.1	64.4	67.5	59.3	57.6	62.7	57.4	62.7	65.2	67.9	54.6	53.2	48.2	54.1	60.6	58.8
Carbon Dioxide (%)	41.3	36.4	35.3	31.5	39.3	41.4	36.5	35	36.6	33.5	31.5	40	36.4	31.1	43.7	39.2	41.1
Oxygen (%)	0.7	0.5	0.2	0.8	1	0.7	0.7	0.9	0.5	1.2	0.4	0.6	2.2	4.7	2	0	0
Balance (%)	0	0	0	0.2	0.4	0.3	0.1	6.7	0.2	0.1	0.2	4.8	8.2	16	0.2	0.2	0.1

LFG WELL 18 (CONTROL AREA)

Parameter	Jun-04	Sep-04	Oct-04	Nov-04	Dec-04	Jan-05	Feb-05	Mar-05	Apr-05	May-05	Jun-05	Jul-05	Aug-05	Sep-05	Oct-05	Nov-05	Dec-05
Temperature (degrees F)	121	112	94	92	89	114	76	112	98	88	88	95	100	111	63	125	80
Flow Rate (scfm)	30	7	15	21	---	0	11	211	15	2	85	35	2	1	34	84	96
Methane (%)	59.2	57.8	54.1	55.6	59.3	58	58.5	57.9	58.4	58.9	57.3	58.8	56	58.1	58.9	55.3	59.4
Carbon Dioxide (%)	40.6	39.6	40.6	40.8	39.2	41.9	41.1	41.3	39.6	40.3	36.9	39.8	35.5	40.2	38.1	38	39.2
Oxygen (%)	0.1	0.4	1.8	1.1	0	0	0	0.6	0.6	0.4	1.2	0.4	1.7	0.5	1.7	1	1.2
Balance (%)	0.1	2.2	3.5	2.5	1.5	0.1	0.4	0.2	1.4	0.4	4.6	1	6.8	1.2	1.3	5.7	0.2

LFG WELL 18 (CONTROL AREA)

Parameter	Feb-06	Mar-06	Apr-06	May-06	Jun-06	Jul-06	Aug-06	Sep-06	Oct-06	Nov-06	Dec-06
Temperature (degrees F)	65	120	66	114	123	101	128	109	110	94	97
Flow Rate (scfm)	60	0	35	56	44	0	7	9	5	0	0
Methane (%)	62.1	56.2	57.8	59	51.4	57.4	58.4	56.4	58.3	54.8	54.9
Carbon Dioxide (%)	35.2	39.1	38.5	39.7	37.9	40.5	38.9	36.1	41.2	38.2	37.8
Oxygen (%)	0.6	1.6	0.9	0.3	1.1	--	--	--	--	--	--
Balance (%)	2.1	3.1	2.8	1	9.6	1.7	2.3	6.2	0.3	6	6.3

TABLE 4
LANDFILL GAS DATA
(continued)

LFG WELL 29 (CONTROL AREA)

Parameter	Sep-02	Oct-02	Nov-02	Dec-02	Jan-03	Apr-03	Jun-03	Aug-03	Sep-03	Oct-03	Nov-03	Dec-03	Jan-04	Feb-04	Mar-04	Apr-04	May-04
Temperature (degrees F)	105	85	103	110	69	105	129	106	95	112	114	115	50	115	114	104	121
Flow Rate (scfm)	43	6	25	56	81	41	77	77	77	66	14	17	14	17	20	20	23
Methane (%)	55	59.3	64.4	50.5	45.9	59.4	55.7	51.3	47.5	50.5	53.1	49.4	43.7	61.6	55	53.9	55.6
Carbon Dioxide (%)	36.9	39.5	35.3	34.1	35	39.7	38.1	38.5	43.0	34.9	35.9	39.8	32.7	38.1	42.5	36.6	43.7
Oxygen (%)	2.1	1.2	0.2	4.5	0.3	0.8	1	1.4	2.0	3.6	3.2	2.2	4.6	0.1	2.4	1.1	0.6
Balance (%)	6	0	0	10.9	18.8	0.1	5.2	8.8	7.5	11.0	7.8	8.6	19	0.2	0.1	8.4	0.1

LFG WELL 29 (CONTROL AREA)

Parameter	Jun-04	Sep-04	Oct-04	Nov-04	Dec-04	Jan-05	Feb-05	Mar-05	Apr-05	May-05	Jun-05	Jul-05	Aug-05	Sep-05	Oct-05	Nov-05	Dec-05
Temperature (degrees F)	124	121	123	119	116	110	113	105	116	116	91	121	100	75	122	121	32
Flow Rate (scfm)	25	12	18	9	---	0	68	13	0	0	81	25	102	54	86	127	169
Methane (%)	57.4	58.3	54.6	56.2	59.7	59.5	56	55	58.1	56.8	52.9	54	33.8	46.1	55	51.9	55.6
Carbon Dioxide (%)	41.9	40.2	40.3	41.9	38.6	40.1	42.1	42.6	41.4	39.7	36.4	38	29.9	49	42.4	38.9	41.5
Oxygen (%)	0.5	0.3	1.4	0.6	0.5	0.3	0.6	2.3	0.3	0.8	2.3	1.4	4.5	4.8	0.4	0.8	2.7
Balance (%)	0.2	1.2	3.7	1.3	1.2	0.1	1.3	0.1	0.2	2.7	8.4	6.6	31.8	0.1	2.2	8.4	0.2

LFG WELL 29 (CONTROL AREA)

Parameter	Feb-06	Mar-06	Apr-06	May-06	Jun-06	Jul-06	Aug-06	Sep-06	Oct-06	Nov-06	Dec-06
Temperature (degrees F)	65	77	83	82	94	90	94	89	86	76	66
Flow Rate (scfm)	28	33	58	73	82	0	35	36	73	77	29
Methane (%)	60	56.9	52.8	56.9	45.8	54.4	45.1	56.1	55.5	54.8	53.4
Carbon Dioxide (%)	39.6	40.6	39.5	39	37	41.1	37.1	41.2	40	39.3	36.8
Oxygen (%)	0.3	0.4	0.7	0.3	0.4	--	--	--	--	--	--
Balance (%)	0.1	2.1	7	3.8	16.8	4	17.1	2.3	4.2	5.3	9

TABLE 4
LANDFILL GAS DATA
(continued)

LFG WELL 30 (CONTROL AREA)

Parameter	Sep-02	Oct-02	Nov-02	Dec-02	Jan-03	Apr-03	Jun-03	Aug-03	Sep-03	Oct-03	Nov-03	Dec-03	Jan-04	Feb-04	Mar-04	Apr-04	May-04
Temperature (degrees F)	105	69	96	100	83	129	99	93	96	121	121	118	98	121	61	109	74
Flow Rate (scfm)	5	62	55	64	96	27	49	53	83	58	75	84	92	90	23	44	110
Methane (%)	60	53.7	64.3	46.7	50.9	43.8	51.6	47.8	52.0	67.5	59.2	50	44.5	48.7	51.2	59.8	49.6
Carbon Dioxide (%)	39.5	35.3	35.2	35.9	36.1	35.4	34.4	39.2	33.9	31.1	39.3	40.8	35.4	33.5	47.5	39	40.6
Oxygen (%)	0.5	0.5	0.3	0.3	0.6	0.3	3.5	1.7	1.0	1.2	1.3	1.7	1.8	3.4	1.1	0	0.9
Balance (%)	0	10.5	0	17.1	12.4	20.5	10.5	11.3	13.1	0.2	0.2	7.5	18.3	14.4	0.2	1.2	8.9

LFG WELL 30 (CONTROL AREA)

Parameter	Jun-04	Sep-04	Oct-04	Nov-04	Dec-04	Jan-05	Feb-05	Mar-05	Apr-05	May-05	Jun-05	Jul-05	Aug-05	Sep-05	Oct-05	Nov-05	Dec-05
Temperature (degrees F)	111	109	93	125	123	119	113	115	77	86	115	93	112	116	108	70	44
Flow Rate (scfm)	86	27	64	86	---	86	87	68	81	47	60	131	133	79	55	107	115
Methane (%)	56.7	57.6	55.4	49.7	51.6	49	46.4	48.2	47.8	57.5	47.2	56.5	47	52.1	54.7	50.6	57.7
Carbon Dioxide (%)	42.9	40.2	43.3	38.9	36.9	36.8	36.8	37.7	37.3	40.6	36.9	41.3	35.8	40.4	41.5	39	39.1
Oxygen (%)	0.3	0.3	0.1	0.5	0.3	0	0.2	0.6	0.7	0.5	0.5	0.2	0.9	0.4	0.2	0.4	0.6
Balance (%)	0.1	1.9	1.2	10.9	11.2	14.2	16.6	13.5	14.2	1.4	15.4	2	16.3	7.1	3.6	10	2.6

LFG WELL 30 (CONTROL AREA)

Parameter	Feb-06	Mar-06	Apr-06	May-06	Jun-06	Jul-06	Aug-06	Sep-06	Oct-06	Nov-06	Dec-06
Temperature (degrees F)	56	124	84	74	73	109	122	111	125	91	91
Flow Rate (scfm)	76	62	59	71	115	57	24	27	37	48	49
Methane (%)	50.5	47.9	47.7	47.1	49.2	49.5	37.9	59.3	56.8	55.1	55
Carbon Dioxide (%)	38.1	40.1	36.8	36.2	39.1	40.5	29.4	40.1	42.6	40.8	41
Oxygen (%)	0.6	1	0.9	0.8	0.7	--	--	--	--	--	--
Balance (%)	10.8	11	14.6	15.9	11	9.5	31.7	0.2	0.6	4	3.8

TABLE 4
LANDFILL GAS DATA
(continued)

LFG WELL 31 (CONTROL AREA)

Parameter	Sep-02	Oct-02	Nov-02	Dec-02	Jan-03	Apr-03	Jun-03	Aug-03	Sep-03	Oct-03	Nov-03	Dec-03	Jan-04	Feb-04	Mar-04	Apr-04	May-04
Temperature (degrees F)	100	89	111	100	64	96	112	101	114	77	101	86	54	88	113	113	107
Flow Rate (scfm)	30	65	39	64	66	30	73	58	116	66	80	82	79	81	92	66	14
Methane (%)	55	41.6	64.8	46.9	59	39	51.4	52	60.6	57.9	58.7	47.5	44.9	51.7	46.2	57.2	42.9
Carbon Dioxide (%)	42.3	33.4	34.4	34.7	35.7	34.4	37.1	33.5	39.2	41.1	40.6	40.2	35.3	35.4	38.8	38.1	36.3
Oxygen (%)	0.9	0.5	0.6	0.2	1.8	1.1	1.2	1.7	0.0	0.9	0.5	1	1.7	1.4	1.1	0	0.2
Balance (%)	1.8	24.5	0	18.2	3.5	25.5	10.3	12.8	0.2	0.1	0.2	11.3	18.1	11.5	13.9	4.7	20.6

LFG WELL 31 (CONTROL AREA)

Parameter	Jun-04	Sep-04	Oct-04	Nov-04	Dec-04	Jan-05	Feb-05	Mar-05	Apr-05	May-05	Jun-05	Jul-05	Aug-05	Sep-05	Oct-05	Nov-05	Dec-05
Temperature (degrees F)	121	112	87	108	119	108	92	111	97	92	89	107	116	105	79	90	72
Flow Rate (scfm)	21	34	68	40	---	49	46	31	80	100	99	57	54	14	64	102	112
Methane (%)	57.9	56.8	48.2	36.6	47.6	41.3	36.9	46.6	40.9	57.2	39.4	43.8	41.7	53.3	57	40.8	44.8
Carbon Dioxide (%)	41.8	40.2	39.5	34	35.5	33.4	32.7	36.5	33.1	39.7	32.3	35.9	36	39.4	41.4	34.8	33.7
Oxygen (%)	0.1	0.5	0.7	0.7	0	0	0.7	0.2	1.1	0.6	0.6	0.9	0.1	0.6	0.7	0.2	1.1
Balance (%)	0.2	2.5	11.6	28.7	16.9	25.3	29.7	16.7	24.9	2.5	27.7	19.4	22.2	6.7	0.9	24.2	20.4

LFG WELL 31 (CONTROL AREA)

Parameter	Feb-06	Mar-06	Apr-06	May-06	Jun-06	Jul-06	Aug-06	Sep-06	Oct-06	Nov-06	Dec-06
Temperature (degrees F)	91	86	97	97	107	102	115	97	114	97	97
Flow Rate (scfm)	77	93	61	75	75	40	43	25	32	38	34
Methane (%)	46	49.9	38.6	41.9	38.2	50.9	45.1	57.7	50.8	47.7	48.6
Carbon Dioxide (%)	34.5	39.2	35.2	34.5	34.6	37.4	36.7	42	39.7	36.9	37.6
Oxygen (%)	1.4	0.7	1.5	0.6	0.3	--	--	--	--	--	--
Balance (%)	18.1	10.2	24.7	23	26.9	11.2	18.1	0.1	9.5	15.2	13.5

TABLE 4
LANDFILL GAS DATA
(continued)

LFG WELL 37 (CONTROL AREA)

Parameter	Sep-02	Oct-02	Nov-02	Dec-02	Jan-03	Apr-03	Jun-03	Aug-03	Sep-03	Oct-03	Nov-03	Dec-03	Jan-04	Feb-04	Mar-04	Apr-04	May-04
Temperature (degrees F)	101	93	111	103	80	116	120	127	79	123	75	73	123	107	115	119	120
Flow Rate (scfm)	58	73	53	120	82	119	139	50	90	161	19	110	108	124	130	92	108
Methane (%)	60	66.9	64.8	59.6	63	52.2	56.4	51.3	53.1	64.4	57.3	55.0	63.9	58.4	54	44.5	54.2
Carbon Dioxide (%)	39	32.5	34.4	38.5	36.1	40.8	39.3	36.3	41.2	34.7	41	44.6	36	40.1	44.7	35.8	45.7
Oxygen (%)	1	0.6	0.6	0.7	0.8	2.2	0.8	1.8	2.2	0.8	1.5	0.0	0	1.3	1.1	4.1	0
Balance (%)	0	0	0	1.2	0.1	4.8	3.5	10.6	3.5	0.1	0.2	0.4	0.1	0.2	0.2	15.6	0.1

LFG WELL 37 (CONTROL AREA)

Parameter	Jun-04	Sep-04	Oct-04	Nov-04	Dec-04	Jan-05	Feb-05	Mar-05	Apr-05	May-05	Jun-05	Jul-05	Aug-05	Sep-05	Oct-05	Nov-05	Dec-05
Temperature (degrees F)	105	129	115	129	109	119	125	115	100	109	89	116	117	99	114	123	123
Flow Rate (scfm)	112	89	120	160	---	135	136	121	130	87	149	101	32	54	42	75	120
Methane (%)	56.2	56.8	55.8	56.3	56.3	59.4	55.9	55.5	54.5	55.9	56.3	53.1	56.9	50.4	54.8	55.2	57.1
Carbon Dioxide (%)	43	41.8	43.5	41.9	39.3	40.1	42	42	40.4	41.3	36.8	39.4	40.7	48.9	40.4	41	42.7
Oxygen (%)	0.7	0.3	0.5	0.4	1	0	0.1	0.5	0.7	0.6	1.5	0.8	0.9	0.5	1.2	0.7	0
Balance (%)	0.1	1.1	0.2	1.4	3.4	0.5	2	2	4.4	2.2	5.4	6.7	1.5	0.2	3.6	3.1	0.2

LFG WELL 37 (CONTROL AREA)

Parameter	Feb-06	Mar-06	Apr-06	May-06	Jun-06	Jul-06	Aug-06	Sep-06	Oct-06	Nov-06	Dec-06
Temperature (degrees F)	106	109	110	105	113	115	105	113	110	102	102
Flow Rate (scfm)	79	81	74	76	93	91	75	77	91	84	33
Methane (%)	59.4	57.5	52.6	54.3	48.2	53.6	46.8	55.5	51.4	48.3	49.1
Carbon Dioxide (%)	40.2	41	40.3	40.6	40.3	46.2	38.4	42.2	41.7	38.4	38.2
Oxygen (%)	0.2	0.4	0.2	0.3	0.2	--	--	--	--	--	--
Balance (%)	0.2	1.1	6.9	4.8	11.3	0.1	14.4	2	6.8	12.9	12.2

TABLE 4
LANDFILL GAS DATA
(continued)

LFG WELL 38 (CONTROL AREA)

Parameter	Sep-02	Oct-02	Nov-02	Dec-02	Jan-03	Apr-03	Jun-03	Aug-03	Sep-03	Oct-03	Nov-03	Dec-03	Jan-04	Feb-04	Mar-04	Apr-04	May-04
Temperature (degrees F)	110	93	85	102	80	105	120	132	71	91	73	75	68	61	63	63	124
Flow Rate (scfm)	49	50	54	84	82	39	77	91	71	19	7	11	0	6	9	13	46
Methane (%)	55	58.3	62.9	53.1	63	39.9	56.8	54	62.7	48.2	64.3	45.6	42.9	47.2	42.4	42.9	53.3
Carbon Dioxide (%)	35.8	39.1	36.3	35.7	36.1	37	41	40.6	36.2	36.3	34.6	40	33.2	35.4	42.3	31.9	41.3
Oxygen (%)	2.1	0.8	0.7	0.3	0.8	0.8	0.4	0.4	0.9	3.2	0.9	3.1	4.9	4.2	4.5	2.7	0.9
Balance (%)	7.1	1.8	0	10.9	0.1	22.3	1.8	5	0.2	12.3	0.2	11.3	19	13.2	10.8	22.5	4.5

LFG WELL 38 (CONTROL AREA)

Parameter	Jun-04	Sep-04	Oct-04	Nov-04	Dec-04	Jan-05	Feb-05	Mar-05	Apr-05	May-05	Jun-05	Jul-05	Aug-05	Sep-05	Oct-05	Nov-05	Dec-05
Temperature (degrees F)	126	123	120	123	126	98	123	123	125	128	95	125	119	122	101	124	63
Flow Rate (scfm)	51	61	45	28	---	54	42	52	32	93	93	104	114	51	106	96	1
Methane (%)	56.9	54.3	50	49.6	56	40.8	38.7	56	41.6	57.7	49.4	55.3	57.9	54.7	50	50.1	58.8
Carbon Dioxide (%)	42.9	40.4	43.8	41.1	39.9	33.8	34.3	42	35.5	41.9	39.9	40.9	40.1	42.2	41.9	39.7	40.5
Oxygen (%)	0.1	0.4	0.5	0.4	1.2	0.6	1.2	1.5	1.0	0.2	0.5	1.2	0.3	0.8	0.4	0.6	0.5
Balance (%)	0.1	4.9	5.7	8.9	2.9	24.8	25.8	0.5	21.9	0.2	10.2	2.6	1.7	2.3	7.7	9.6	0.2

LFG WELL 38 (CONTROL AREA)

Parameter	Feb-06	Mar-06	Apr-06	May-06	Jun-06	Jul-06	Aug-06	Sep-06	Oct-06	Nov-06	Dec-06
Temperature (degrees F)	126	122	128	127	129	127	107	119	127	123	120
Flow Rate (scfm)	76	0	51	46	75	57	38	44	45	34	31
Methane (%)	59.3	42.5	48.3	55	34	55.6	55.6	55	44.3	39.1	41.1
Carbon Dioxide (%)	40.3	35.4	36.8	41.5	28.5	42.9	43.8	40.4	36.2	33.3	34
Oxygen (%)	0.3	0.4	1.2	0.1	3	--	--	--	--	--	--
Balance (%)	0.1	21.7	13.7	3.4	34.5	1.2	0.1	4.3	18.8	27	24.1

TABLE 4
LANDFILL GAS DATA
(continued)

LFG WELL 39 (CONTROL AREA)

Parameter	Sep-02	Oct-02	Nov-02	Dec-02	Jan-03	Apr-03	Jun-03	Aug-03	Sep-03	Oct-03	Nov-03	Dec-03	Jan-04	Feb-04	Mar-04	Apr-04	May-04
Temperature (degrees F)	101	102	86	96	61	125	82	131	108	93	99	87	85	83	99	110	95
Flow Rate (scfm)	88	52	36	66	63	85	94	49	70	101	135	127	135	135	140	70	90
Methane (%)	56	50	66	45.7	64.1	44.9	57.6	58.4	61.8	65.9	68	51.7	51.6	53	51.8	59.8	56.4
Carbon Dioxide (%)	40.5	32.8	32.9	34.5	35.4	43.3	38.1	36.4	38.0	33.3	31.4	43.1	38.7	35.7	45.8	39.6	43.4
Oxygen (%)	0.8	0.4	1	0.1	0.4	0.5	1	1	0.1	0.6	0.5	1.1	2.1	3.4	2.2	0.5	0.1
Balance (%)	2.7	16.8	0	19.7	0.1	11.3	3.3	4.2	0.1	0.2	0.1	4.1	7.6	7.9	0.2	0.1	0.1

LFG WELL 39 (CONTROL AREA)

Parameter	Jun-04	Sep-04	Oct-04	Nov-04	Dec-04	Jan-05	Feb-05	Mar-05	Apr-05	May-05	Jun-05	Jul-05	Aug-05	Sep-05	Oct-05	Nov-05	Dec-05
Temperature (degrees F)	112	113	108	92	130	101	103	70	84	96	104	85	112	91	88	85	59
Flow Rate (scfm)	91	79	121	123	---	126	124	108	122	144	30	129	157	108	114	117	163
Methane (%)	57.4	55.2	55.1	53.1	56.3	53.4	52.3	51.1	52.1	54.8	50.7	51.3	51.1	50.5	53.5	52.2	55.4
Carbon Dioxide (%)	42.2	41.1	44.6	42	39.1	37.9	40.1	40	38.5	40.2	38	39.1	37.4	39.4	39.2	39	37.4
Oxygen (%)	0.3	1.4	0.2	0.4	0.5	0.7	0.5	1.2	1.2	0.9	0.3	1.4	1.9	1.4	1.7	1.1	1.5
Balance (%)	0.1	2.3	0.1	4.5	4.1	8	7.1	7.7	8.2	4.1	11	8.2	9.6	8.7	5.6	7.7	5.7

LFG WELL 39 (CONTROL AREA)

Parameter	Feb-06	Mar-06	Apr-06	May-06	Jun-06	Jul-06	Aug-06	Sep-06	Oct-06	Nov-06	Dec-06
Temperature (degrees F)	89	122	62	94	106	105	104	95	96	84	87
Flow Rate (scfm)	78	0	99	91	0	103	102	89	106	100	101
Methane (%)	60.3	47.7	50.2	52.4	54.3	53	48.3	52.7	52	51.2	52.1
Carbon Dioxide (%)	38.2	38.2	37.3	38.3	42.8	38.7	37.5	39.5	38.4	36.6	36.3
Oxygen (%)	1.4	0.7	1.4	0.8	0.4	--	--	--	--	--	--
Balance (%)	0.1	13.4	11.1	8.5	2.5	7.8	13.6	6.9	8.8	11.1	10.6

TABLE 4
LANDFILL GAS DATA
(continued)

LFG WELL 80 (TEST AREA)

Parameter	Sep-02	Oct-02	Nov-02	Dec-02	Jan-03	Apr-03	Jun-03	Aug-03	Sep-03	Oct-03	Nov-03	Dec-03	Jan-04	Feb-04	Mar-04	Apr-04	May-04
Temperature (degrees F)	88	123	115	98	61	103	94	104	86	94	72	66	65	66	95	96	91
Flow Rate (scfm)	48	44	25	77	61	60	65	54	75	65	84	87	87	100	96	98	92
Methane (%)	48	53.2	68.3	55.4	50.3	51.9	52.1	46.1	63.2	50.1	58.1	51.5	48.3	55.4	54.8	55.8	55.4
Carbon Dioxide (%)	36.8	36.6	30.7	40.2	35	42.1	39.6	33.5	36.0	39.8	40.9	43	39.8	38.6	43.9	38.8	44.2
Oxygen (%)	0.2	0.4	0.8	0.4	0.2	0.8	1.1	1.2	0.6	1.3	0.9	0.8	1.2	1.8	1.1	0.1	0.2
Balance (%)	15	9.9	0	4	14.5	5.2	7.2	19.2	0.2	8.8	0.1	4.7	10.7	4.2	0.2	5.3	0.2

LFG WELL 80 (TEST AREA)

Parameter	Jun-04	Aug-04	Sep-04	Oct-04	Nov-04	Dec-04	Jan-05	Feb-05	Mar-05	Apr-05	May-05	Jun-05	Jul-05	Aug-05	Sep-05	Oct-05	Dec-05
Temperature (degrees F)	99	97	91	94	115	113	119	98	98	101	99	100	114	95	119	118	84
Flow Rate (scfm)	100	67	76	37	112	112	115	115	97	182	91	99	98	54	71	59	131
Methane (%)	58.2	55.9	56.7	44.5	51.9	56.9	52.8	52	54.1	53.3	50.6	48.8	49.9	48.1	53.6	52.6	58.9
Carbon Dioxide (%)	41.6	42.1	40.7	36.6	39.7	39.5	38	40.4	40.8	39.2	38.7	38.3	39.4	37.9	40.9	40.2	40.7
Oxygen (%)	0.1	0.2	0.3	2.4	0.7	0.4	0.7	0.7	0.6	0.9	0.9	0.6	0.4	0.8	0.1	0.7	0.3
Balance (%)	0.1	1.8	2.3	16.5	7.7	3.2	8.5	6.9	4.5	6.6	9.8	12.3	10.3	13.2	5.4	6.5	0.1

LFG WELL 80 (TEST AREA)

Parameter	Feb-06	Mar-06	Apr-06	May-06	Jun-06	Jul-06	Aug-06	Sep-06	Oct-06	Nov-06	Dec-06
Temperature (degrees F)	84	78	108	112	117	112	125	90	112	76	88
Flow Rate (scfm)	77	51	63	58	48	171	50	49	58	68	69
Methane (%)	53.5	46.1	47.7	52	46.5	52.9	34.6	52.8	46.9	53	54
Carbon Dioxide (%)	36.1	38.1	33.8	37.6	34.7	39.1	28.3	39.1	35.9	38.4	38.1
Oxygen (%)	1.3	1.3	2.8	1.3	1.6	--	--	--	--	--	--
Balance (%)	9.1	14.5	15.7	9.1	17.2	7.6	33.8	7.4	16	7.7	7.1

TABLE 4
LANDFILL GAS DATA
(continued)

LFG WELL 81 (CONTROL AREA)

Parameter	Sep-02	Oct-02	Nov-02	Dec-02	Jan-03	Apr-03	Jun-03	Aug-03	Sep-03	Oct-03	Nov-03	Dec-03	Jan-04	Feb-04	Mar-04	Apr-04	May-04
Temperature (degrees F)	112	65	90	94	97	98	98	114	95	122	100	121	102	90	114	98	118
Flow Rate (scfm)	52	45	42	86	69	86	94	68	91	77	86	48	65	72	94	88	45
Methane (%)	44	55	54.7	59.8	49.7	52	54.7	46.3	55.9	55.6	66.7	42.2	48.9	53.8	54.3	55.3	44
Carbon Dioxide (%)	36.2	40.9	37.2	39.6	35.8	40.9	37.7	31.7	38.8	43.3	32.9	36.3	41.6	38.7	44.4	35.7	35.8
Oxygen (%)	0.8	0.4	0.7	0.5	0.5	1.1	0.8	1.9	0.6	0.9	0.3	1.2	1.2	1.7	1.1	0.4	1.7
Balance (%)	19	3.7	7	0.1	14	6	6.8	20.1	4.8	0.2	0.1	20.3	8.3	5.8	0.2	8.6	18.5

LFG WELL 81 (CONTROL AREA)

Parameter	Jun-04	Aug-04	Sep-04	Oct-04	Nov-04	Dec-04	Jan-05	Feb-05	Mar-05	Apr-05	May-05	Jun-05	Jul-05	Aug-05	Sep-05	Oct-05	Dec-05
Temperature (degrees F)	113	110	100	72	123	122	112	85	84	89	92	97	104	128	95	76	65
Flow Rate (scfm)	32	10	19	98	30	30	0	35	18	25	0	97	32	115	55	32	99
Methane (%)	55.2	54.9	53.5	52.4	37.4	50.9	43.5	49.7	50.8	42.3	53.4	51.2	43.8	48.9	56.7	56.7	54.3
Carbon Dioxide (%)	40.9	41.8	39.2	40.4	33	36.8	35.3	39.6	39.2	33.4	40.7	39.7	35.9	38.5	42.3	42.4	39.1
Oxygen (%)	0.6	0.5	1.2	1.2	3.7	1.5	2.4	0.9	1.0	2.4	0.3	0.7	1.3	0.2	0.2	0.6	0.3
Balance (%)	3.3	2.8	6.1	6	25.9	10.8	18.8	9.8	9.0	21.9	5.6	8.4	19	12.4	0.8	0.3	6.3

LFG WELL 81 (CONTROL AREA)

Parameter	Feb-06	Mar-06	Apr-06	May-06	Jun-06	Jul-06	Aug-06	Sep-06	Oct-06	Nov-06	Dec-06
Temperature (degrees F)	59	72	73	86	95	128	91	75	78	66	73
Flow Rate (scfm)	57	0	16	0	70	68	2	16	27	0	0
Methane (%)	51	44.3	52.5	48.8	47.4	56.2	47.8	58.5	54.5	41.2	48
Carbon Dioxide (%)	36.7	36.5	38.3	34.2	38.5	43.7	37.5	41	37.7	31.5	37
Oxygen (%)	0.1	0.1	0	0.5	0	--	--	--	--	--	--
Balance (%)	12.2	19.1	9.2	16.5	14.1	0.1	14.5	0.5	7.7	26.2	13

TABLE 4
LANDFILL GAS DATA
(continued)

LFG WELL 82 (CONTROL AREA)

Parameter	Sep-02	Oct-02	Nov-02	Dec-02	Jan-03	Apr-03	Jun-03	Aug-03	Sep-03	Oct-03	Nov-03	Dec-03	Jan-04	Feb-04	Mar-04	Apr-04	May-04
Temperature (degrees F)	98	68	101	95	71	110	100	125	90	85	122	120	123	122	117	99	125
Flow Rate (scfm)	29	55	64	72	74	40	56	83	71	105	114	47	47	65	61	80	11
Methane (%)	55	59.1	62.2	47.9	51.2	48.2	55.5	49.1	49.7	51.8	52.2	43.6	48.2	60.4	49.2	59.2	48.5
Carbon Dioxide (%)	42.1	40.4	36.8	32.8	35.9	35.2	38.1	31.6	34.0	40.5	40.1	38.2	39.9	38.9	41.4	37.7	39
Oxygen (%)	0.6	0.5	0.8	2	0.1	1	1	1.2	0.2	0.6	0.5	0.5	0.4	0.6	0.7	0	0
Balance (%)	2.3	0	0	17.3	12.8	15.6	5.4	18.1	16.1	7.1	7.2	17.7	11.5	0.1	8.7	3.1	12.5

LFG WELL 82 (CONTROL AREA)

Parameter	Jun-04	Aug-04	Sep-04	Oct-04	Nov-04	Dec-04	Jan-05	Feb-05	Mar-05	Apr-05	May-05	Jun-05	Jul-05	Aug-05	Sep-05	Oct-05	Dec-05
Temperature (degrees F)	128	124	123	123	122	122	108	118	119	120	120	122	126	128	126	105	127
Flow Rate (scfm)	28	26	35	52	62	67	63	69	65	70	44	106	73	87	1	131	115
Methane (%)	58.9	57.7	57.6	55.9	48.7	54.8	50.4	50.4	53.4	51.8	57.4	47	47.6	47.8	58.2	44.2	52.9
Carbon Dioxide (%)	40.9	41.3	40.1	42.9	38.9	37.9	39.8	38.9	39.5	39.8	40.8	37	37.7	38.4	41.3	37.1	37.8
Oxygen (%)	0.1	0.2	0.1	0	0.2	0.3	0.1	0.2	0.6	0.2	0.2	0.7	0.5	0.1	0.3	0.4	0.3
Balance (%)	0.1	0.8	2.2	1.2	12.2	7	9.7	10.5	6.5	8.2	1.6	15.3	14.2	13.7	0.2	18.3	9

Parameter	Feb-06	Mar-06	Apr-06	May-06	Jun-06	Jul-06	Aug-06	Sep-06	Oct-06	Nov-06	Dec-06
Temperature (degrees F)	128	89	132	121	92	129	128	127	118	127	123
Flow Rate (scfm)	75	39	60	72	55	65	65	64	68	85	80
Methane (%)	54.6	46.7	49.6	50.9	53.5	56	50	54.6	48.2	45.7	47.5
Carbon Dioxide (%)	36.7	37.1	37.8	37.8	29.5	41.9	38.5	40.2	36.7	35.4	34.6
Oxygen (%)	0.3	0.1	0.4	0.3	0.5	--	--	--	--	--	--
Balance (%)	8.4	16.1	12.2	11	16.5	0.8	11.4	5.1	14.4	18	17.1

TABLE 5
SUMMARY OF LEACHATE QUALITY DATA
Project XL
Maplewood Recycling and Waste Disposal Facility
Amelia County, Virginia

TEST AREA (PHASE 1-2N)

Key Parameters	Units	Aug-02	Sep-02	Oct-02	Nov-02	Dec-02	Jan-03	Apr-03	Jul-03	Oct-03	Jan-04	Jul-04	Jan-05	Jul-05	Jan-06	Jul-06
Biological Oxygen Demand	mg/l	34	25	36	15	60	54	91	28	33	36	157	300	128	120	120
Chemical Oxygen Demand	mg/l	505	780	598	1,150	912	784	477	739	906	776	730	750	880	960	690
Total Organic Carbon	mg/l	155	152	160	164	171	241	214	183	216	206	198	236	265	314	242
BOD/COD Ratio	-	0.07	0.03	0.06	0.01	0.07	0.07	0.19	0.04	0.04	0.05	0.22	0.40	0.15	0.13	0.17
COD/TOC Ratio	-	3.26	5.13	3.74	7.01	5.33	3.25	2.23	4.04	4.19	3.77	3.69	3.18	3.32	3.06	2.85
Chloride	mg/l	886	938	984	930	949	1,140	1,040	670	945	957	910	1000	950	1000	1000
Sulfate	mg/l	<10	<10	<10	<10	< 10	< 10	< 10	<10	<10	<10	< 5.0	<5.0	<5.0	<5.0	< 5.0
Nitrate Nitrogen	mg/l as N	0.05	0.05	0.12	1.37	0.07	0.37	0.41	0.07	0.07	<0.05	< 0.05	<0.05	<0.05	<0.05	< 0.05
Ammonia Nitrogen	mg/l as N	293	352	284	352	344	450	391	387	291	184	342	403	213	423	350
pH (Field)	S.U.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	7.03	6.81	6.99	7.05	7.48	6.95

Secondary Parameters	Units	Aug-02	Sep-02	Oct-02	Nov-02	Dec-02	Jan-03	Apr-03	Jul-03	Oct-03	Jan-04	Jul-04	Jan-05	Jul-05	Jan-06	Jul-06
Arsenic	ug/L	20	20	< 10	20	20	20	30	20	30	<30	< 30	<30	30	30	0.02
Barium	ug/L	770	1070	110	890	950	1,100	860	910	970	850	880	880	986	896	1380
Cadmium	ug/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 5	<5	<5	<5	< 5	<5	<2	<2	< 2
Chromium	ug/L	20	30	< 10	30	30	40	40	30	30	30	30	350	38	42	27
Lead	ug/L	< 5	< 5	< 5	< 5	< 5	< 5	< 5	<5	<5	<20	< 20	<20	<20	<20	< 20
Mercury	ug/L	< 0.2	< 0.2	< 0.2	< 0.4	< 0.0004	< 0.0004	< 0.2	<0.2	<0.2	<0.2	< 0.2	<0.2	<0.2	<0.2	< 0.2
Nitrite Nitrogen	mg/L	< 0.05	< 0.05	< 0.05	0.16	< 0.05	< 0.05	< 0.05	<0.05	<0.05	<0.05	< 0.05	<0.05	<0.05	< 0.05	< 0.05
Total Kjeldahl Nitrogen	mg/L	312	445	252	399	432	567	404	395	307	197	340	410	330	430	323
Ortho Phosphorus	mg/L	6.6	1.6	2.2	0.9	1.8	0.9	2.3	2.2	4.8	2.4	2.3	1.7	2.6	2.4	1.9
Potassium	ug/L	214,000	215,000	227,000	251,000	273,000	328,000	320,000	256,000	270,000	275,000	297,000	317,000	303,000	412,000	320,000
Selenium	ug/L	< 5	< 5	< 5	< 5	< 5	< 5	< 5	<5	<5	<30	< 30	<30	<20	<20	< 20
Silver	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	<10	<10	<10	< 10	<10	<5	<5	< 5
Total Dissolved Solids	mg/L	3490	3,440	3480	3,670	3,660	4,440	4,300	3,710	3,780	3,850	3,760	4,230	4,460	4,390	4,290
Total Phosphorus	mg/L	1.9	2.1	3.1	0.7	2.2	1.4	2.1	1.6	10.5	1.6	1.7	1.8	2.2	2.5	2.1

Notes

(1) Secondary parameters listed above were identified in the Final Project Agreement [GeoSyntec, 2000] and the VADEQ permit application [GeoSyntec, 2001] as parameters of interest.

TABLE 5
SUMMARY OF LEACHATE QUALITY DATA
(continued)

TEST AREA (PHASE 1-2S)

Parameter		Aug-02	Sep-02	Oct-02	Nov-02	Dec-02	Jan-03	Apr-03	Jul-03	Oct-03	Jan-04	Jul-04	Jan-05	Jul-05	Jan-06	Jul-06
Biological Oxygen Demand	mg/l	51	33	17	9	51	63	74	40	29		95	112	124	120	139
Chemical Oxygen Demand	mg/l	776	897	1,020	526	547	648	759	755	976	118	790	690	900	780	1100
Total Organic Carbon	mg/l	211	203	181	147	153	201	180	187	216	204	222	212	307	270	342
BOD/COD Ratio	-	0.07	0.04	0.02	0.02	0.09	0.10	0.10	0.05	0.03	0.00	0.12	0.16	0.14	0.15	0.13
COD/TOC Ratio	-	3.68	4.42	5.64	3.58	3.58	3.22	4.22	4.04	4.52	0.58	3.56	3.25	2.93	2.89	3.22
Chloride	mg/l	465	1,210	1,160	832	948	220	1,080	989	1,060	678	1,000	960	1,440	1,000	1,600
Sulfate	mg/l	<10	<10	<10	<10	< 10	< 10	< 10	<10	<10	<10	< 5.0	< 5.0	<5.0	<5.0	< 5.0
Nitrate Nitrogen	mg/l as N	0.09	0.11	0.05	0.05	< 0.05	< 0.05	< 0.05	<0.05	0.24	<0.05	< 0.05	< 0.05	<0.05	<0.05	< 0.05
Ammonia Nitrogen	mg/l as N	319	380	327	295	350	416	346	401	361	84	430	403	294	372	595
pH (Field)	S.U.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	6.69	6.97	6.69	7.01	7.21	6.99

Secondary Parameters	Units	Aug-02	Sep-02	Oct-02	Nov-02	Dec-02	Jan-03	Apr-03	Jul-03	Oct-03	Jan-04	Jul-04	Jan-05	Jul-05	Jan-06	Jul-06
Arsenic	ug/L	10	< 10	10	< 10	10	< 10	10	<10	20	< 30	< 30	< 30	<20	20	20
Barium	ug/L	830	990	970	640	760	790	810	770	820	540	703	674	711	563	1310
Cadmium	ug/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 5	<5	<5	< 5	< 5	< 5	<2	<2	< 2
Chromium	ug/L	20	20	30	20	30	30	30	30	30	20	40	350	43	40	72
Lead	ug/L	< 5	< 5	< 5	< 5	< 5	< 5	< 5	<5	<5	< 20	< 20	< 20	<20	<20	< 20
Mercury	ug/L	< 0.2	< 0.2	< 0.2	< 0.4	< 0.0004	< 0.0004	< 0.2	<0.2	<0.2	< 0.2	< 0.2	< 0.2	<0.2	<0.2	< 0.2
Nitrite Nitrogen	mg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	<0.05	<0.05	<0.05	< 0.05	< 0.05	<0.05	< 0.05	< 0.05
Total Kjeldahl Nitrogen	mg/L	354	597	227	319	468	489	359	407	376	87	450	410	300	390	487
Ortho Phosphorus	mg/L	2.5	2	2.9	1.2	2.3	3.1	2.7	2.9	5.5	1.8	3.1	2.9	4	3.1	4.4
Potassium	ug/L	235,000	239,000	257,000	211,000	246,000	282,000	269,000	235,000	263,000	197,000	312,000	307,000	324,000	321,000	464,000
Selenium	ug/L	< 5	< 5	< 5	< 5	< 5	< 5	< 5	<5	<5	< 30	< 30	< 30	<20	<20	< 20
Silver	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	<10	<10	< 10	< 10	< 10	<5	<5	< 5
Total Dissolved Solids	mg/L	3240	3320	10800	2580	2800	3130	3270	3310	3570	2,550	3,490	3,190	3,940	3,200	4,830
Total Phosphorus	mg/L	2.6	2.7	2.5	0.6	2.5	2.2	2.8	3	10.8	0.6	2.2	3.0	2.9	3.1	4.5

Notes
(1) BOD/COD ratio cannot excced 1.0, therefore January 2004 value is erroneous and average ratio over the prior 3 months will be used instead.

(2) Secondary parameters listed above were identified in the Final Project Agreement [GeoSyntec, 2000] and the VADEQ permit application [GeoSyntec, 2001] as parameters of interest.

TABLE 5
SUMMARY OF LEACHATE QUALITY DATA
(continued)

CONTROL AREA (PHASE 3)

Parameter	Units	Aug-02	Sep-02	Oct-02	Nov-02	Dec-02	Apr-03	Jul-03	Oct-03	Jan-04	Jul-04	Jan-05	Jul-05	Jan-06	Jul-06
Biological Oxygen Demand	mg/l	148	118	159	12	129	416	184	84	50	417	471	924	208	364
Chemical Oxygen Demand	mg/l	7,830	2,950	2,950	2,910	149	2,710	3,090	2,860	2,950	2,800	2,600	2,600	2,800	2,500
Total Organic Carbon	mg/l	873	812	763	814	835	805	1,040	1,110	1,030	951	921	938	977	849
BOD/COD Ratio	-	0.02	0.04	0.05	0.00	0.87	0.15	0.06	0.03	0.02	0.15	0.18	0.36	0.07	0.15
COD/TOC Ratio	-	8.97	3.63	3.87	3.57	0.18	3.37	2.97	2.58	2.86	2.94	2.82	2.77	2.87	2.94
Chloride	mg/l	2,180	2,990	2,990	2,930	2,950	3,270	3,070	3,330	3,790	3,600	3,700	3,250	3,000	2,800
Sulfate	mg/l	<10	<10	<10	<10	<10	< 10	<10	<10	<10	< 5.0	< 5.0	<5.0	<5.0	< 5.0
Nitrate Nitrogen	mg/l as N	0.08	0.08	0.16	0.19	0.13	0.09	0.81	3.27	<0.05	0.14	0.08	<0.05	<0.05	< 0.05
Ammonia Nitrogen	mg/l as N	1,480	1,620	1,110	2,130	1,560	2,150	2,280	2000	1,900	1,890	1,840	8,760	1,890	1,530
pH (Field)	S.U.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	7.46	7.50	7.44	7.62	7.73	7.42

Secondary Parameters	Units	Aug-02	Sep-02	Oct-02	Nov-02	Dec-02	Apr-03	Jul-03	Oct-03	Jan-04	Jul-04	Jan-05	Jul-05	Jan-06	Jul-06
Arsenic	ug/L	30	30	40	30	40	40	70	60	70	50	50	50	60	60
Barium	ug/L	680	660	580	650	660	910	610	630	530	492	1,050	484	106	1130
Cadmium	ug/L	< 0.5	< 0.5	< 0.5	< 0.5	<0.5	< 5	<5	<5	< 5	< 5	< 5	<2	<2	< 2
Chromium	ug/L	140	150	180	160	170	190	190	200	200	210	248	234	244	197
Lead	ug/L	< 5	< 5	< 5	< 5	<5	< 5	<5	<5	< 20	< 20	< 20	<20	<20	< 20
Mercury	ug/L	< 0.2	< 0.2	< 0.2	< 0.4	<0.0004	< 0.2	<0.2	<0.2	< 0.2	< 0.2	< 0.2	<0.2	<0.2	< 0.2
Nitrite Nitrogen	mg/L	< 0.05	< 0.05	< 0.05	< 0.05	<0.05	< 0.05	0.81	<0.05	<0.05	< 0.05	0.05	<0.05	< 0.05	< 0.05
Total Kjeldahl Nitrogen	mg/L	932	809	1693	1666	1,756	2,198	2,343	2,062	1,979	2,000	1,900	8,800	3,000	1,860
Ortho Phosphorus	mg/L	0.4	0.8	13	5.5	15.1	16.2	17.2	19.2	15.6	18	18	20	19	15.9
Potassium	ug/L	984,000	900,000	946,000	1,060,000	10,400,000	1,080,000	937,000	1,000,000	936,000	1,050,000	1,150,000	778,000	1,050,000	969,000
Selenium	ug/L	5	< 5	8	6	6	< 5	<5	13	< 30	< 30	< 30	<20	<20	< 20
Silver	ug/L	< 10	< 10	< 10	< 10	<10	< 10	<10	<10	< 10	< 10	< 10	<5	<5	< 5
Total Dissolved Solids	mg/L	8,280	7,250	7,620	7,600	7,350	8,150	7,600	6,690	7,390	8,060	8,100	7,950	7,670	7,830
Total Phosphorus	mg/L	13.3	11.5	14.6	7.3	16.1	14.9	16.6	14.3	13	13.3	18.8	16.7	19.5	15.3

Notes

(1) Secondary parameters listed above were identified in the Final Project Agreement [GeoSyntec, 2000] and the VADEQ permit application [GeoSyntec, 2001] as parameters of interest.
(2) Leachate samples could not be obtained for the January 2003 event in Phase 3 because of frozen sampling ports.

TABLE 5
SUMMARY OF LEACHATE QUALITY DATA
(continued)

CONTROL AREA (PHASE 4)

Parameter		Aug-02	Sep-02	Oct-02	Nov-02	Dec-02	Apr-03	Jul-03	Oct-03	Jan-04	Jul-04	Jan-05	Jul-05	Jan-06	Jul-06
Biological Oxygen Demand	mg/l	3,150	495	1,650	24		960	1,670	20	119	1180	3,000	1,470	1,790	230
Chemical Oxygen Demand	mg/l	8,230	4,980	4,680	6,880	170	7,480	4,600	423	2,600	3,200	4,700	3,500	4,400	2,800
Total Organic Carbon	mg/l	2,150	1,420	1,560	1,790	2,240	2,390	1,560	150	257	960	1310	1280	1410	964
BOD/COD Ratio	-	0.38	0.10	0.35	0.00	0.00	0.13	0.36	0.05	0.05	0.37	0.64	0.42	0.41	0.08
COD/TOC Ratio	-	3.83	3.51	3.00	3.84	0.08	3.13	2.95	2.82	10.12	3.33	3.59	2.73	3.12	2.90
Chloride	mg/l	3,290	4,280	3,520	2,890	1,980	2,960	3,580	346	3,370	2,500	2,400	2,550	2,100	3,400
Sulfate	mg/l	<10	<10	<10	<10	2,000	<10	<10	<10	<10	< 5.0	< 5.0	<5.0	<5.0	< 5.0
Nitrate Nitrogen	mg/l as N	0.1	0.11	0.23	0.16	0.17	0.17	0.19	0.20	<0.05	0.17	< 0.05	<0.05	<0.05	< 0.05
Ammonia Nitrogen	mg/l as N	1,750	2,630	1,120	2,040	1,390	2,170	2,200	383	1,790	1,840	1,470	1,620	1,140	2,660
pH (Field)	S.U.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	7.65	7.45	7.03	7.40	7.74	7.50

Secondary Parameters	Units	Aug-02	Sep-02	Oct-02	Nov-02	Dec-02	Apr-03	Jul-03	Oct-03	Jan-04	Jul-04	Jan-05	Jul-05	Jan-06	Jul-06
Arsenic	ug/L	80	70	70	50	60	60	90	<10	60	60	70	140	120	60
Barium	ug/L	490	450	370	410	400	810	450	540	420	194	786	196	181	762
Cadmium	ug/L	< 0.5	2.1	< 0.5	< 0.5	0.9	<5	<5	<5	< 5	< 5	< 5	<2	<2	< 2
Chromium	ug/L	270	260	220	200	1,980	210	290	10	160	180	170	207	205	218
Lead	ug/L	< 5	5	< 5	< 5	6	<5	<5	<5	< 20	< 20	< 20	<20	<20	< 20
Mercury	ug/L	< 0.2	< 0.2	< 0.2	< 0.4	<0.2	<0.2	<0.2	<0.2	< 0.2	< 0.2	< 0.2	<0.2	<0.3	< 0.2
Nitrite Nitrogen	mg/L	< 0.05	< 0.05	< 0.05	< 0.05	<0.05	<0.05	<0.05	<0.05	<0.05	< 0.05	0.05	0.06	0.07	0.07
Total Kjeldahl Nitrogen	mg/L	481	2,417	1,579	1,830	1,556	2,227	2,269	394	1,850	1,900	1,500	1,800	2,300	2,630
Ortho Phosphorus	mg/L	0.5	0.5	9.5	6.3	13.7	19.6	25.8	1.7	13.4	19.0	16	19.7	19.2	23.9
Potassium	ug/L	714,000	604,000	487,000	479,000	442,000	528,000	588,000	73,600	598,000	570,000	385,000	375,000	489,000	907,000
Selenium	ug/L	7	8	6	< 5	9	<5	<5	<5	< 30	< 30	< 30	<20	<20	< 20
Silver	ug/L	< 10	< 10	< 10	< 10	<10	<10	<10	<10	< 10	< 10	< 10	<5	<5	< 5
Total Dissolved Solids	mg/L	7,530	9,430	6,030	5,300	4,740	6,130	4,120	1,480	5,740	4,800	3,830	4,680	4,580	8,190
Total Phosphorus	mg/L	21.3	18.9	12.2	7.9	5.4	15.9	17.9	2.1	10.2	14.7	16.6	16	20	20.3

Notes:

(1) Secondary parameters listed above were identified in the Final Project Agreement [GeoSyntec, 2000] and the VADEQ permit application [GeoSyntec, 2001] as parameters of interest.
(2) The BOD value for the December 2002 sampling event is erroneous and has been omitted from this table.
(3) Leachate samples could not be obtained for the January 2003 event in Phase 4 because of frozen sampling ports.

TABLE 5
SUMMARY OF LEACHATE QUALITY DATA
(continued)

LEACHATE TANK

Parameter	Units	Aug-02	Sep-02	Oct-02	Nov-02	Dec-02	Jan-03	Apr-03	Jul-03	Oct-03	Jan-04	Jul-04	Jan-05	Jul-05	Jan-06	Jul-06
Biological Oxygen Demand	mg/l	52	143	1,310	120	398		800	120	68	75	152	300	36	129	209
Chemical Oxygen Demand	mg/l	2,490	2,630	2,150	2,340	2,300	2,850	2,480	2,110	1,760	1,860	1,700	1,300	1,800	1,600	1,000
Total Organic Carbon	mg/l	603	746	708	710	742	999	1,000	514	574	541	531	519	494	568	408
BOD/COD Ratio	-	0.02	0.05	0.61	0.05	0.17	0.00	0.32	0.06	0.04	0.04	0.09	0.23	0.02	0.08	0.21
COD/TOC Ratio	-	4.13	3.53	3.04	3.30	3.10	2.85	2.48	4.11	3.07	3.44	3.20	2.50	3.64	2.82	2.45
Chloride	mg/l	2,310	1,380	2,820	54	1,900	2,250	1,880	1,860	2,140	2,810	2,200	2,500	1,870	1,700	1,300
Sulfate	mg/l	<10	<10	<10	<10	< 10	< 10	< 10	<10	<10	<10	< 5.0	< 5.0	<5.0	<5.0	< 5.0
Nitrate Nitrogen	mg/l as N	0.05	0.09	0.16	0.11	0.15	0.11	0.07	0.08	<0.05	<0.05	0.12	< 0.05	<0.05	<0.05	< 0.05
Ammonia Nitrogen	mg/l as N	1,510	1,590	1,390	1,560	1,280	989	520	1370	1,280	1,270	1,260	1,230	854	1,500	701
pH (Field)	S.U.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	7.66	7.59	7.54	7.65	8.19	7.63

Secondary Parameters	Units	Aug-02	Sep-02	Oct-02	Nov-02	Dec-02	Jan-03	Apr-03	Jul-03	Oct-03	Jan-04	Jul-04	Jan-05	Jul-05	Jan-06	Jul-06
Arsenic	ug/L	40	40	40	30	30	30	30	30	30	< 30	< 30	< 30	40	40	40
Barium	ug/L	640	660	600	680	720	500	1040	690	720	510	514	515	458	394	853
Cadmium	ug/L	< 0.5	0.9	< 0.5	< 0.5	< 0.5	< 5	< 5	<5	<5	< 5	< 5	< 5	<2	<2	< 2
Chromium	ug/L	150	150	170	120	140	130	110	120	120	120	120	129	126	141	106
Lead	ug/L	< 5	< 5	< 5	< 5	< 5	< 5	< 5	<5	<5	< 20	< 20	< 20	<20	<20	< 20
Mercury	ug/L	< 0.2	< 0.2	< 0.2	< 0.4	< 0.0004	< 0.2	< 0.2	<0.2	<0.2	< 0.2	< 0.2	< 0.2	<0.2	<0.2	< 0.2
Nitrite Nitrogen	mg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	<0.05	< 0.05	<0.05	<0.05	<0.05	< 0.05	< 0.05	<0.05	0.05	< 0.05
Total Kjeldahl Nitrogen	mg/L	1,373	1,476	2,919	1,647	1,471	1,181	549	1,406	1,310	1,316	1,300	1,200	1,100	1,800	645
Ortho Phosphorus	mg/L	15.9	0.8	20	5	8.4	11.8	10.5	13.5	15	14	14	12	11.2	9.4	8.7
Potassium	ug/L	535,000	568,000	535,000	455,000	524,000	493,000	438,000	427,000	455,000	464,000	552,000	535,000	403,000	543,000	346,000
Selenium	ug/L	< 5	6	6	< 5	5	< 5	< 5	<5	5	< 30	< 30	< 30	<20	<20	< 20
Silver	ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	<10	<10	< 10	< 10	< 10	<5	<5	< 5
Total Dissolved Solids	mg/L	6,370	5,960	5,900	5,490	5,180	5,640	4,900	5,040	4,120	4,690	4,960	4,570	4,530	4,720	3,970
Total Phosphorus	mg/L	18.8	8.3	11.9	8.3	23.3	12.9	8.3	9.4	13	10.5	9.7	12.8	8.7	9.8	8.7

Notes:

(1) Secondary parameters listed above were identified in the Final Project Agreement [GeoSyntec, 2000] and the VADEQ permit application [GeoSyntec, 2001] as parameters of interest.
(2) The BOD value for the January 2003 sampling event is erroneous and has been omitted from this table.

TABLE 6
SUMMARY OF LEACHATE QUANTITY DATA
Project XL
Maplewood Recycling and Waste Disposal Facility
Amelia County, Virginia
2002

	Phase	Area (Acres)		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sept	Oct	Nov	Dec	Annual Total
Test Area	PH 1 & 2 NOR	PRIMARY	GAL	6,602	6,020	8,699	4,353	6,378	6,557	15,895	9,197	7,269	5,616	5,776	8,392	90,754
	12.5	SECONDARY	GAL	0	7	48	35	99	2	103	0	0	0	800	267	1,361
	PH 1 & 2 SOU	PRIMARY	GAL	6,268	6,122	10,433	9,806	8,706	6,050	5,667	6,448	5,168	7,497	9,608	13,059	94,832
	13.9	SECONDARY	GAL	0	0	830	614	226	497	20	853	0	268	0	414	3,722
Control Area	PHASE 3	PRIMARY	GAL	45,672	40,965	40,811	40,111	43,156	38,889	39,249	44,639	39,007	40,324	35,410	38,804	487,037
	10.5	SECONDARY	GAL	1,481	29	0	1	1	1	1,477	0	0	0	0	23	3,013
	PHASE 4	PRIMARY	GAL	66,608	58,153	59,725	65,014	57,183	52,606	54,192	26,630	49,656	56,191	53,529	61,528	661,015
	11.1	SECONDARY	GAL	0	0	4,928	0	5,005	1	0	6	0	4,970	0	4,986	19,896
Current Disposal Area	PHASE 11	PRIMARY	GAL	38,454	35,476	34,927	37,692	35,345	29,802	33,545	29,377	29,552	30,663	6,989	34,497	376,319
	10.3	SECONDARY	GAL	27	2	0	0	0	2,901	1	1	5	2,811	0	0	5,748
	PHASE 12	PRIMARY	GAL	33,029	32,091	38,396	36,128	23,929	21,136	10,925	17,031	31,174	21,403	28,763	34,472	328,477
	9.5	SECONDARY	GAL	2,060	0	0	0	1	0	0	20	0	0	3,115	0	5,196
	Monthly Total			200,201	178,865	198,797	193,754	180,029	158,442	161,074	134,202	161,831	169,743	143,990	196,442	2,077,370

Note:

This table is based on site records for the Maplewood Recycling and Waste Disposal Facility showing the amount of leachate collected in the primary and seconday leachate collection system. These records were provided by Waste Management and the site manager (Brian McClung) in a series faxes between September 2002 and December 2002.

The test area is represented by Ph 1&2 Nor and Ph 1&2 Sou, the control area is represented by Phase 3 and Phase 4, Phase 11 and Phase 12 are the current disposal areas and are provided for information purposes only.

TABLE 6
SUMMARY OF LEACHATE QUANTITY DATA
continued

2003

	Phase	Area (Acres)		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sept	Oct	Nov	Dec	Annual Total
Test Area	PH 1 & 2 NOR 12.5	PRIMARY	GAL	7,782	7,791	11,921	13,256	13,931	8,616	17,949	13,928	11,831	13,310	10,170	12,814	143,299
		SECONDARY	GAL	36	0	0	0	0	0	1	0	0	0	0	0	37
	PH 1 & 2 SOU 13.9	PRIMARY	GAL	6,199	13,138	13,531	13,963	14,949	12,109	6,763	9,318	8,290	4,804	7,491	13,489	124,044
		SECONDARY	GAL	113	0	0	0	0	0	0	0	1,279	0	0	0	1,392
Control Area	PHASE 3 10.5	PRIMARY	GAL	33,587	27,737	24,356	24,771	36,537	33,400	36,152	37,380	33,297	37,371	31,447	31,585	387,620
		SECONDARY	GAL	0	26	3,713	0	347	0	1	1	0	8	1	1,761	5,858
	PHASE 4 11.1	PRIMARY	GAL	55,062	55,445	64,356	63,242	60,276	51,538	51,150	52,112	51,072	61,523	53,815	63,121	682,712
		SECONDARY	GAL	29	5,164	4,974	55	5,040	0	4,760	0	4,406	3,294	187	22	27,931
Current Disposal Area	PHASE 11 10.3	PRIMARY	GAL	12,262	48,395	37,288	35,899	39,611	38,576	39,699	43,337	34,687	37,419	1,980	54,600	423,753
		SECONDARY	GAL	0	2,968	10	0	2,583	0	1	2	0	1	2,724	0	8,289
	PHASE 12 9.5	PRIMARY	GAL	29,879	35,866	47,430	44,029	44,761	45,277	41,551	44,754	34,343	39,114	34,499	42,835	484,338
		SECONDARY	GAL	0	4,287	0	0	3,229	89	0	3,183	0	12	76	0	10,876
	Monthly Total			144,949	200,817	207,579	195,215	221,264	189,605	198,027	204,015	179,205	196,856	142,390	220,227	2,300,149

TABLE 6
SUMMARY OF LEACHATE QUANTITY DATA
continued

2004

	Phase	Area (Acres)		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sept	Oct	Nov	Dec	Annual Total
Test Area	PH 1 & 2 NOR	PRIMARY	GAL	11,512	10,539	11,482	12,821	11,953	6,224	3,008	9,795	10,661	9,695	4,390	10,106	112,186
	12.5	SECONDARY	GAL	69	0	0	0	0	0	0	0	0	0	0	0	69
	PH 1 & 2 SOU	PRIMARY	GAL	8,593	9,899	7,521	7,289	7,275	4,387	7,174	6,475	9,785	6,811	8,807	8,711	92,727
	13.9	SECONDARY	GAL	918	0	10	10	0	1,280	2	0	0	0	0	1,260	3,480
Control Area	PHASE 3	PRIMARY	GAL	36,285	31,711	33,811	35,133	31,701	30,400	33,912	30,388	29,634	32,166	30,065	29,902	385,108
	10.5	SECONDARY	GAL	0	0	0	1	0	0	1	1	0	1	1,670	1	1,675
	PHASE 4	PRIMARY	GAL	60,014	65,167	62,284	54,254	42,801	55,603	59,601	47,402	46,360	63,969	62,373	72,321	692,149
	11.1	SECONDARY	GAL	758	4,974	0	0	20,216	0	4,941	0	0	4,663	0	4,624	40,176
Current Disposal Area	PHASE 11	PRIMARY	GAL	33,344	38,198	36,576	36,429	17,511	10,269	31,671	27,511	33,090	29,198	27,904	29,908	351,609
	10.3	SECONDARY	GAL	0	2,665	0	1,765	0	0	3	1	2,483	0	0	3,012	9,929
	PHASE 12	PRIMARY	GAL	42,989	38,756	39,139	35,840	31,098	27,595	30,100	31,477	25,505	31,297	30,522	30,522	394,840
	9.5	SECONDARY	GAL	0	1,530	0	1,567	0	0	1	0	0	3,177	1	0.5	6,276
	Monthly Total			194,482	203,439	190,823	185,109	162,555	135,758	170,414	153,050	157,518	180,977	165,732	190,368	2,090,224

Note that May and June 2004 quantities for the primary are estimates; flowmeter malfunction resulted in incomplete data

TABLE 6
SUMMARY OF LEACHATE QUANTITY DATA
continued

2005

	Phase	Area (Acres)		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sept	Oct	Nov	Dec	Annual Total
Test Area	PH 1 & 2 NOR	PRIMARY	GAL	2,969	551	547	11,138	12,476	11,623	13,174	11,610	11,727	12,624	12,120	12,085	112,644
	12.5	SECONDARY	GAL	139	0	17	0	0	0	0	679	0	0	0	0	835
	PH 1 & 2 SOU	PRIMARY	GAL	8,206	6,943	11,750	8,552	5,170	5,638	6,351	5,175	6,092	4,981	5,742	9,354	83,954
	13.9	SECONDARY	GAL	218	0	5	0	1,148	0	0	0	0	1,067	0	0	2,438
Control Area	PHASE 3	PRIMARY	GAL	29,985	26,803	29,852	30,761	28,575	27,476	30,459	32,423	33,996	31,940	33,161	32,365	367,796
	10.5	SECONDARY	GAL	0	0	1	0	1	0	0	0	438	0	0	0	440
	PHASE 4	PRIMARY	GAL	76,428	51,594	67,570	61,837	56,185	54,137	54,513	50,258	51,191	52,072	50,643	49,859	676,287
	11.1	SECONDARY	GAL	0	4,847	12	5,034	0	4,995	0	0	0	4,876	0	0	19,764
Current Disposal Area	PHASE 11	PRIMARY	GAL	26,102	26,185	30,226	29,935	24,520	22,786	23,618	22,350	21,615	18,845	22,939	24,877	293,998
	10.3	SECONDARY	GAL	0	0	2,584	0	3	0	0	4	2,100	0	0	0	4,691
	PHASE 12	PRIMARY	GAL	28,720	31,077	33,560	37,062	34,722	30,400	35,939	31,734	30,994	27,114	29,531	28,935	379,788
	9.5	SECONDARY	GAL	0	0	2,790	0	0	0	0	3,556	0	0	0	0	6,346
	Monthly Total			172,767	148,000	178,914	184,319	162,800	157,055	164,054	157,789	158,153	153,519	154,136	157,475	1,948,981

TABLE 6
SUMMARY OF LEACHATE QUANTITY DATA
continued

2006

	Phase	Area (Acres)		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sept	Oct	Nov	Dec	Annual Total
Test Area	PH 1 & 2 NOR	PRIMARY	GAL	14,432	12,603	13,700	13,516	14,235	12,416	13,255	12,104	11,337	11,056	10,952	9,472	149,078
	12.5	SECONDARY	GAL	23	0	0	0	0	0	296	0	0	0	519	0	838
	PH 1 & 2 SOU	PRIMARY	GAL	10,825	8,324	5,651	5,920	6,856	5,782	8,275	8,517	7,010	9,251	10,912	8,380	95,703
	13.9	SECONDARY	GAL	494	0	0	1,046	0	0	1,158	0	0	723	0	716	4,137
Control Area	PHASE 3	PRIMARY	GAL	39,010	32,473	36,142	32,526	36,497	32,430	46,103	37,349	34,937	39,897	45,248	43,114	455,726
	10.5	SECONDARY	GAL	0	2	0	0	0	0	104	0	71	2,839	0	2,035	5,051
	PHASE 4	PRIMARY	GAL	71,496	57,609	64,797	57,407	62,697	49,468	53,023	49,612	53,343	60,121	62,227	57,438	699,238
	11.1	SECONDARY	GAL	4,830	4,782	0	0	0	4,749	631	0	4,880	0	4,642	0	24,514
Current Disposal Area	PHASE 11	PRIMARY	GAL	22,204	18,899	20,211	17,645	20,331	17,416	19,466	18,068	16,778	16,626	17,298	16,523	221,465
	10.3	SECONDARY	GAL	0	0	0	2,539	0	0	0	0	0	0	0	0	2,539
	PHASE 12	PRIMARY	GAL	32,168	26,265	26,282	21,395	27,401	22,313	24,836	25,924	23,638	27,430	25,259	23,108	306,019
	9.5	SECONDARY	GAL	0	0	0	0	0	1,244	0	947	0	0	0	0	2,191
	Monthly Total			195,482	160,957	166,783	151,994	168,017	145,818	167,147	152,521	151,994	167,943	177,057	160,786	1,966,499

TABLE 7
LIQUID APPLICATION SUMMARY
Project XL
Maplewood Recycling and Waste Disposal Facility
Amelia County, Virginia

	Liquid Applied by Trench (gallons)									Monthly Summary by Trench								
Date	1	2	3	4	5	6	7	8	Cumulative Total	1	2	3	4	5	6	7	8	Monthly Total
8/20/2002	13,441	7,203	0	0	0	0	0	0	20,644									
8/21/2002	0	0	0	0	0	0	0	0	20,644									
8/22/2002	6,695	6,662	6,669	0	0	0	0	0	40,670									
8/23/2002	0	0	0	0	0	0	0	0	40,670									
8/24/2002	0	0	0	0	0	0	0	0	40,670									
8/25/2002	13,281	13,210	13,369	0	0	0	0	0	80,530									
8/26/2002	0	0	0	0	0	0	0	0	80,530									
8/27/2002	0	0	0	0	0	0	0	0	80,530									
8/28/2002	0	0	0	0	0	0	0	0	80,530									
8/29/2002	0	0	0	0	0	0	0	0	80,530									
8/30/2002	0	0	0	0	0	0	0	0	80,530									
8/31/2002	0	0	0	0	0	0	0	0	80,530	33,417	27,075	20,038	0	0	0	0	0	80,530
9/1/2002	0	0	0	0	0	0	0	0	80,530									
9/2/2002	0	0	0	0	0	0	0	0	80,530									
9/3/2002	0	6,500	0	0	0	0	0	0	87,030									
9/4/2002	0	0	0	0	0	0	0	0	87,030									
9/5/2002	6,600	6,524	6,570	0	0	0	0	0	106,724									
9/6/2002	0	0	0	0	0	0	0	0	106,724									
9/7/2002	0	0	0	0	0	0	0	0	106,724									
9/8/2002	0	0	0	0	0	0	0	0	106,724									
9/9/2002	6,722	13,456	13,439	0	0	0	0	0	140,341									
9/10/2002	0	0	0	0	0	0	0	0	140,341									
9/11/2002	13,396	13,420	13,405	0	0	0	0	0	180,562									
9/12/2002	13,408	13,405	13,470	0	0	0	0	0	220,845									
9/13/2002	0	0	0	0	0	0	0	0	220,845									
9/14/2002	0	0	0	0	0	0	0	0	220,845									
9/15/2002	0	0	0	0	0	0	0	0	220,845									
9/16/2002	0	13,415	13,482	0	0	0	0	0	247,742									
9/17/2002	0	0	0	0	0	0	0	0	247,742									
9/18/2002	13,422	13,446	13,492	0	0	0	0	0	288,102									
9/19/2002	0	0	0	0	0	0	0	0	288,102									
9/20/2002	0	0	0	0	0	0	0	0	288,102									
9/21/2002	0	0	0	0	0	0	0	0	288,102									
9/22/2002	0	0	0	0	0	0	0	0	288,102									
9/23/2002	13,544	13,468	13,506	0	0	0	0	0	328,620									
9/25/2002	13,523	13,470	13,511	0	0	0	0	0	369,124									
9/26/2002	0	0	0	0	0	0	0	0	369,124									
9/27/2002	0	0	0	0	0	0	0	0	369,124									
9/28/2002	0	0	0	0	0	0	0	0	369,124									
9/29/2002	0	0	0	0	0	0	0	0	369,124									
9/30/2002	13,468	13,506	13,470	0	0	0	0	0	409,568	94,083	120,610	114,345	0	0	0	0	0	329,038
10/1/2002	6,700	6,698	6,733	0	0	0	0	0	429,699									
10/2/2002	6,726	6,707	0	0	0	0	0	0	443,132									
10/3/2002	0	0	0	0	0	0	0	0	443,132									
10/4/2002	0	0	0	0	0	0	0	0	443,132									
10/5/2002	0	0	0	0	0	0	0	0	443,132									
10/6/2002	0	0	0	0	0	0	0	0	443,132									
10/7/2002	6,743	6,699	6,700	0	0	0	0	0	463,274									
10/8/2002	6,690	6,664	6,757	0	0	0	0	0	483,385									
10/9/2002	0	0	0	0	0	0	0	0	483,385									
10/10/2002	13,454	6,683	6,709	0	0	0	0	0	510,231									
10/11/2002	0	0	0	0	0	0	0	0	510,231									
10/12/2002	0	0	0	0	0	0	0	0	510,231									
10/13/2002	0	0	0	0	0	0	0	0	510,231									
10/14/2002	0	0	0	0	0	0	0	0	510,231									
10/15/2002	6,757	6,683	13,459	0	0	0	0	0	537,130									
10/16/2002	0	0	0	0	0	0	0	0	537,130									
10/17/2002	13,455	6,762	13,464	0	0	0	0	0	570,811									
10/18/2002	0	0	0	0	0	0	0	0	570,811									
10/19/2002	0	0	0	0	0	0	0	0	570,811									
10/20/2002	0	0	0	0	0	0	0	0	570,811									
10/21/2002	13,637	6,792	13,521	0	0	0	0	0	604,761									
10/22/2002	0	0	0	0	0	0	0	0	604,761									
10/23/2002	0	0	0	0	0	0	0	0	604,761									
10/24/2002	13,502	0	13,388	0	0	0	0	0	631,651									
10/25/2002	0	0	0	0	0	0	0	0	631,651									
10/26/2002	0	0	0	0	0	0	0	0	631,651									
10/27/2002	0	0	0	0	0	0	0	0	631,651									
10/28/2002	13,234	6,610	13,281	0	0	0	0	0	664,776									
10/29/2002	0	0	0	0	0	0	0	0	664,776									
10/30/2002	0	0	0	0	0	0	0	0	664,776									
10/31/2002	0	0	0	0	0	0	0	0	664,776	100,898	60,298	94,012	0	0	0	0	0	255,208

TABLE 7
LIQUID APPLICATION SUMMARY
Project XL
Maplewood Recycling and Waste Disposal Facility
Amelia County, Virginia

	Liquid Applied by Trench (gallons)									Monthly Summary by Trench								
Date	1	2	3	4	5	6	7	8	Cumulative Total	1	2	3	4	5	6	7	8	Monthly Total
11/1/2002	13,338	0	13,265	0	0	0	0	0	691,379									
11/2/2002	0	0	0	0	0	0	0	0	691,379									
11/3/2002	0	0	0	0	0	0	0	0	691,379									
11/4/2002	13,364	6,676	13,321	0	0	0	0	0	724,740									
11/5/2002	0	0	0	0	0	0	0	0	724,740									
11/6/2002	0	0	0	0	0	0	0	0	724,740									
11/7/2002	13,362	6,645	13,345	0	0	0	0	0	758,092									
11/8/2002	0	0	0	0	0	0	0	0	758,092									
11/9/2002	0	0	0	0	0	0	0	0	758,092									
11/10/2002	0	0	0	0	0	0	0	0	758,092									
11/11/2002	0	0	0	0	0	0	0	0	758,092									
11/12/2002	0	0	0	0	0	0	0	0	758,092									
11/13/2002	0	0	0	0	0	0	0	0	758,092									
11/14/2002	0	0	0	0	0	0	0	0	758,092									
11/15/2002	0	0	0	0	0	0	0	0	758,092									
11/16/2002	0	0	0	0	0	0	0	0	758,092									
11/17/2002	0	0	0	0	0	0	0	0	758,092									
11/18/2002	0	0	0	0	0	0	0	0	758,092									
11/19/2002	6,664	0	6,631	0	0	0	0	0	771,387									
11/20/2002	0	0	0	0	0	0	0	0	771,387									
11/21/2002	0	0	0	0	0	0	0	0	771,387									
11/22/2002	0	0	0	0	0	0	0	0	771,387									
11/23/2002	0	0	0	0	0	0	0	0	771,387									
11/24/2002	0	0	0	0	0	0	0	0	771,387									
11/25/2002	0	0	0	0	0	0	0	0	771,387									
11/26/2002	0	0	0	0	0	0	0	0	771,387									
11/27/2002	0	0	0	0	0	0	0	0	771,387									
11/28/2002	0	0	0	0	0	0	0	0	771,387									
11/29/2002	0	0	0	0	0	0	0	0	771,387									
11/30/2002	0	0	0	0	0	0	0	0	771,387	46,728	13,321	46,562	0	0	0	0	0	106,611
12/1/2002	0	0	0	0	0	0	0	0	771,387									
12/2/2002	0	0	0	0	0	0	0	0	771,387									
12/3/2002	0	0	0	0	0	0	0	0	771,387									
12/4/2002	6,477	6,520	6,493	0	0	0	0	0	790,877									
12/5/2002	0	0	0	0	0	0	0	0	790,877									
12/6/2002	0	0	0	0	0	0	0	0	790,877									
12/7/2002	0	0	0	0	0	0	0	0	790,877									
12/8/2002	0	0	0	0	0	0	0	0	790,877									
12/9/2002	0	0	0	0	0	0	0	0	790,877									
12/10/2002	13,200	13,429	19,940	0	0	0	0	0	837,446									
12/11/2002	0	0	0	0	0	0	0	0	837,446									
12/12/2002	6,795	0	6,572	0	0	0	0	0	850,813									
12/13/2002	0	0	0	0	0	0	0	0	850,813									
12/14/2002	0	0	0	0	0	0	0	0	850,813									
12/15/2002	0	0	0	0	0	0	0	0	850,813									
12/16/2002	0	0	0	0	0	0	0	0	850,813									
12/17/2002	0	0	0	0	0	0	0	0	850,813									
12/18/2002	0	0	0	0	0	0	0	0	850,813									
12/19/2002	0	0	0	0	0	0	0	0	850,813									
12/20/2002	0	0	0	0	0	0	0	0	850,813									
12/21/2002	0	0	0	0	0	0	0	0	850,813									
12/22/2002	0	0	0	0	0	0	0	0	850,813									
12/23/2002	0	0	0	0	0	0	0	0	850,813									
12/24/2002	0	0	0	0	0	0	0	0	850,813									
12/25/2002	0	0	0	0	0	0	0	0	850,813									
12/26/2002	13,469	0	0	0	0	0	0	0	864,282									
12/27/2002	0	0	0	0	0	0	0	0	864,282									
12/28/2002	0	0	0	0	0	0	0	0	864,282									
12/29/2002	0	0	0	0	0	0	0	0	864,282									
12/30/2002	0	0	0	0	0	0	0	0	864,282									
12/31/2002	0	0	0	0	0	0	0	0	864,282	39,941	19,949	33,005	0	0	0	0	0	92,895
1/1/2003	0	0	0	0	0	0	0	0	864,282									
1/2/2003	0	0	0	0	0	0	0	0	864,282									
1/3/2003	0	0	0	0	0	0	0	0	864,282									
1/4/2003	0	0	0	0	0	0	0	0	864,282									
1/5/2003	0	0	0	0	0	0	0	0	864,282									
1/6/2003	7,032	6,690	6,932	0	0	0	0	0	884,936									
1/7/2003	0	0	0	0	0	0	0	0	884,936									
1/8/2003	0	0	0	0	0	0	0	0	884,936									
1/9/2003	0	0	0	0	0	0	0	0	884,936									
1/10/2003	0	0	0	0	0	0	0	0	884,936									
1/11/2003	0	0	0	0	0	0	0	0	884,936									
1/12/2003	0	0	0	0	0	0	0	0	884,936									
1/13/2003	7,238	0	0	0	0	0	0	0	892,174									
1/14/2003	12,681	6,669	6,605	0	0	0	0	0	918,129									
1/15/2003	0	0	0	0	0	0	0	0	918,129									
1/16/2003	0	0	0	0	0	0	0	0	918,129									
1/17/2003	0	0	0	0	0	0	0	0	918,129									
1/18/2003	0	0	0	0	0	0	0	0	918,129									
1/19/2003	0	0	0	0	0	0	0	0	918,129									
1/20/2003	0	0	13,306	0	0	0	0	0	931,435									
1/21/2003	6,427	6,652	12,605	0	0	0	0	0	957,119									
1/22/2003	7,130	0	0	0	0	0	0	0	964,249									
1/23/2003	0	0	0	0	0	0	0	0	964,249									
1/24/2003	0	0	0	0	0	0	0	0	964,249									
1/25/2003	0	0	0	0	0	0	0	0	964,249									
1/26/2003	0	0	0	0	0	0	0	0	964,249									
1/27/2003	6,904	6,017	6,406	0	0	0	0	0	983,576									
1/28/2003	0	0	0	0	0	0	0	0	983,576									
1/29/2003	0	0	0	0	0	0	0	0	983,576									
1/30/2003	6,320	6,087	5,988	0	0	0	0	0	1,001,971									
1/31/2003	0	0	0	0	0	0	0	0	1,001,971	53,732	32,115	51,842	0	0	0	0	0	137,689

TABLE 7
LIQUID APPLICATION SUMMARY
Project XL
Maplewood Recycling and Waste Disposal Facility
Amelia County, Virginia

	Liquid Applied by Trench (gallons)									Monthly Summary by Trench								
Date	1	2	3	4	5	6	7	8	Cumulative Total	1	2	3	4	5	6	7	8	Monthly Total
2/1/2003	0	0	0	0	0	0	0	0	1,001,971									
2/2/2003	0	0	0	0	0	0	0	0	1,001,971									
2/3/2003	0	0	0	0	0	0	0	0	1,001,971									
2/4/2003	0	0	0	0	0	0	0	0	1,001,971									
2/5/2003	12,529	6,377	6,358	0	0	0	0	0	1,027,235									
2/6/2003	2,878	0	9,528	0	0	0	0	0	1,039,641									
2/7/2003	0	0	0	0	0	0	0	0	1,039,641									
2/8/2003	0	0	0	0	0	0	0	0	1,039,641									
2/9/2003	0	0	0	0	0	0	0	0	1,039,641									
2/10/2003	0	0	0	0	0	0	0	0	1,039,641									
2/11/2003	0	0	0	0	0	0	0	0	1,039,641									
2/12/2003	0	0	0	0	0	0	0	0	1,039,641									
2/13/2003	6,384	6,213	4,828	0	0	0	0	0	1,057,066									
2/14/2003	7,406	0	0	0	0	0	0	0	1,064,472									
2/15/2003	0	0	0	0	0	0	0	0	1,064,472									
2/16/2003	0	0	0	0	0	0	0	0	1,064,472									
2/17/2003	0	0	0	0	0	0	0	0	1,064,472									
2/18/2003	0	0	0	0	0	0	0	0	1,064,472									
2/19/2003	0	0	0	0	0	0	0	0	1,064,472									
2/20/2003	0	0	0	0	0	0	0	0	1,064,472									
2/21/2003	0	0	0	0	0	0	0	0	1,064,472									
2/22/2003	0	0	0	0	0	0	0	0	1,064,472									
2/23/2003	0	0	0	0	0	0	0	0	1,064,472									
2/24/2003	0	0	0	0	0	0	0	0	1,064,472									
2/25/2003	0	0	0	0	0	0	0	0	1,064,472									
2/26/2003	0	0	0	0	0	0	0	0	1,064,472									
2/27/2003	0	0	0	0	0	0	0	0	1,064,472									
2/28/2003	0	0	0	0	0	0	0	0	1,064,472	29,197	12,590	20,714	0	0	0	0	0	62,501
3/1/2003	0	0	0	0	0	0	0	0	1,064,472									
3/2/2003	0	0	0	0	0	0	0	0	1,064,472									
3/3/2003	0	0	0	0	0	0	0	0	1,064,472									
3/4/2003	0	0	0	0	0	0	0	0	1,064,472									
3/5/2003	0	0	0	0	0	0	0	0	1,064,472									
3/6/2003	0	0	0	0	0	0	0	0	1,064,472									
3/7/2003	0	0	0	0	0	0	0	0	1,064,472									
3/8/2003	0	0	0	0	0	0	0	0	1,064,472									
3/9/2003	0	0	0	0	0	0	0	0	1,064,472									
3/10/2003	0	0	0	0	0	0	0	0	1,064,472									
3/11/2003	0	0	0	0	0	0	0	0	1,064,472									
3/12/2003	0	0	0	0	0	0	0	0	1,064,472									
3/13/2003	0	0	0	0	0	0	0	0	1,064,472									
3/14/2003	0	0	0	0	0	0	0	0	1,064,472									
3/15/2003	0	0	0	0	0	0	0	0	1,064,472									
3/16/2003	0	0	0	0	0	0	0	0	1,064,472									
3/17/2003	0	0	0	0	0	0	0	0	1,064,472									
3/18/2003	0	0	0	0	0	0	0	0	1,064,472									
3/19/2003	0	0	0	0	0	0	0	0	1,064,472									
3/20/2003	0	0	0	0	0	0	0	0	1,064,472									
3/21/2003	0	0	0	0	0	0	0	0	1,064,472									
3/22/2003	0	0	0	0	0	0	0	0	1,064,472									
3/23/2003	0	0	0	0	0	0	0	0	1,064,472									
3/24/2003	0	0	0	0	0	0	0	0	1,064,472									
3/25/2003	0	0	0	0	0	0	0	0	1,064,472									
3/26/2003	6,646	13,154	13,062	0	0	0	0	0	1,097,334									
3/27/2003	12,919	0	6,558	0	0	0	0	0	1,116,811									
3/28/2003	0	0	0	0	0	0	0	0	1,116,811									
3/29/2003	0	0	0	0	0	0	0	0	1,116,811									
3/30/2003	0	0	0	0	0	0	0	0	1,116,811									
3/31/2003	0	0	0	0	0	0	0	0	1,116,811	19,565	13,154	19,620	0	0	0	0	0	52,339
4/1/2003	6,308	6,536	6,432	0	0	0	0	0	1,136,087									
4/2/2003	0	0	0	0	0	0	0	0	1,136,087									
4/3/2003	0	0	0	0	0	0	0	0	1,136,087									
4/4/2003	0	0	0	0	0	0	0	0	1,136,087									
4/5/2003	0	0	0	0	0	0	0	0	1,136,087									
4/6/2003	0	0	0	0	0	0	0	0	1,136,087									
4/7/2003	0	0	0	0	0	0	0	0	1,136,087									
4/8/2003	3,278	0	12,750	0	0	0	0	0	1,152,115									
4/9/2003	0	0	0	0	0	0	0	0	1,152,115									
4/10/2003	6,208	5,734	0	0	0	0	0	0	1,164,057									
4/11/2003	0	0	0	0	0	0	0	0	1,164,057									
4/12/2003	0	0	0	0	0	0	0	0	1,164,057									
4/13/2003	0	0	0	0	0	0	0	0	1,164,057									
4/14/2003	0	0	0	0	0	0	0	0	1,164,057									
4/15/2003	6,441	0	6,087	0	0	0	0	0	1,176,585									
4/16/2003	0	0	0	0	0	0	0	0	1,176,585									
4/17/2003	5,746	6,168	6,420	0	0	0	0	0	1,194,919									
4/18/2003	0	0	0	0	0	0	0	0	1,194,919									
4/19/2003	0	0	0	0	0	0	0	0	1,194,919									
4/20/2003	0	0	0	0	0	0	0	0	1,194,919									
4/21/2003	0	0	0	0	0	0	0	0	1,194,919									
4/22/2003	0	0	0	0	0	0	0	0	1,194,919									
4/23/2003	0	0	0	0	0	0	0	0	1,194,919									
4/24/2003	0	0	0	0	0	0	0	0	1,194,919									
4/25/2003	0	0	0	0	0	0	0	0	1,194,919									
4/26/2003	0	0	0	0	0	0	0	0	1,194,919									
4/27/2003	0	0	0	0	0	0	0	0	1,194,919									
4/28/2003	0	0	0	0	0	0	0	0	1,194,919									
4/29/2003	5,725	6,052	11,881	0	0	0	0	0	1,218,577									
4/30/2003	0	0	0	0	0	0	0	0	1,218,577	33,706	24,490	43,570	0	0	0	0	0	101,766

TABLE 7
LIQUID APPLICATION SUMMARY
Project XL
Maplewood Recycling and Waste Disposal Facility
Amelia County, Virginia

	Liquid Applied by Trench (gallons)									Monthly Summary by Trench								
Date	1	2	3	4	5	6	7	8	Cumulative Total	1	2	3	4	5	6	7	8	Monthly Total
5/1/2003	0	0	0	0	0	0	0	0	1,218,577									
5/2/2003	0	0	0	0	0	0	0	0	1,218,577									
5/3/2003	0	0	0	0	0	0	0	0	1,218,577									
5/4/2003	0	0	0	0	0	0	0	0	1,218,577									
5/5/2003	0	0	0	0	0	0	0	0	1,218,577									
5/6/2003	5,943	6,028	6,192	0	0	0	0	0	1,236,740									
5/7/2003	0	0	0	0	0	0	0	0	1,236,740									
5/8/2003	0	0	0	0	0	0	0	0	1,236,740									
5/9/2003	0	0	0	0	0	0	0	0	1,236,740									
5/10/2003	0	0	0	0	0	0	0	0	1,236,740									
5/11/2003	0	0	0	0	0	0	0	0	1,236,740									
5/12/2003	0	0	0	0	0	0	0	0	1,236,740									
5/13/2003	0	0	0	0	0	0	0	0	1,236,740									
5/14/2003	0	0	0	0	0	0	0	0	1,236,740									
5/15/2003	5,962	6,446	11,179	0	0	0	0	0	1,260,327									
5/16/2003	0	0	0	0	0	0	0	0	1,260,327									
5/17/2003	0	0	0	0	0	0	0	0	1,260,327									
5/18/2003	0	0	0	0	0	0	0	0	1,260,327									
5/19/2003	0	0	0	0	0	0	0	0	1,260,327									
5/20/2003	0	0	0	0	0	0	0	0	1,260,327									
5/21/2003	0	0	0	0	0	0	0	0	1,260,327									
5/22/2003	0	0	0	0	0	0	0	0	1,260,327									
5/23/2003	0	0	0	0	0	0	0	0	1,260,327									
5/24/2003	0	0	0	0	0	0	0	0	1,260,327									
5/25/2003	0	0	0	0	0	0	0	0	1,260,327									
5/26/2003	0	0	0	0	0	0	0	0	1,260,327									
5/27/2003	0	0	0	0	0	0	0	0	1,260,327									
5/28/2003	0	0	0	0	0	0	0	0	1,260,327									
5/29/2003	0	0	0	0	0	0	0	0	1,260,327									
5/30/2003	0	0	0	0	0	0	0	0	1,260,327									
5/31/2003	0	0	0	0	0	0	0	0	1,260,327	11,905	12,474	17,371	0	0	0	0	0	41,750
6/1/2003	0	0	0	0	0	0	0	0	1,260,327									
6/2/2003	0	0	0	0	0	0	0	0	1,260,327									
6/3/2003	0	0	0	0	0	0	0	0	1,260,327									
6/4/2003	0	0	0	0	0	0	0	0	1,260,327									
6/5/2003	0	0	0	0	0	0	0	0	1,260,327									
6/6/2003	0	0	0	0	0	0	0	0	1,260,327									
6/7/2003	0	0	0	0	0	0	0	0	1,260,327									
6/8/2003	0	0	0	0	0	0	0	0	1,260,327									
6/9/2003	0	0	0	0	0	0	0	0	1,260,327									
6/10/2003	0	0	0	0	0	0	0	0	1,260,327									
6/11/2003	0	0	0	0	0	0	0	0	1,260,327									
6/12/2003	0	0	0	0	0	0	0	0	1,260,327									
6/13/2003	0	0	0	0	0	0	0	0	1,260,327									
6/14/2003	0	0	0	0	0	0	0	0	1,260,327									
6/15/2003	0	0	0	0	0	0	0	0	1,260,327									
6/16/2003	0	0	0	0	0	0	0	0	1,260,327									
6/17/2003	0	0	0	0	0	0	0	0	1,260,327									
6/18/2003	0	0	0	0	0	0	0	0	1,260,327									
6/19/2003	0	0	0	0	0	0	0	0	1,260,327									
6/20/2003	0	0	0	0	0	0	0	0	1,260,327									
6/21/2003	0	0	0	0	0	0	0	0	1,260,327									
6/22/2003	0	0	0	0	0	0	0	0	1,260,327									
6/23/2003	0	0	0	0	0	0	0	0	1,260,327									
6/24/2003	0	0	0	0	0	0	0	0	1,260,327									
6/25/2003	0	0	0	0	0	0	0	0	1,260,327									
6/26/2003	0	0	0	0	0	0	0	0	1,260,327									
6/27/2003	0	0	0	0	0	0	0	0	1,260,327									
6/28/2003	0	0	0	0	0	0	0	0	1,260,327									
6/29/2003	0	0	0	0	0	0	0	0	1,260,327									
6/30/2003	0	0	0	0	0	0	0	0	1,260,327	0	0	0	0	0	0	0	0	0
7/1/2003	0	0	0	0	0	0	0	0	1,260,327									
7/2/2003	0	0	0	0	0	0	0	0	1,260,327									
7/3/2003	0	0	0	0	0	0	0	0	1,260,327									
7/4/2003	0	0	0	0	0	0	0	0	1,260,327									
7/5/2003	0	0	0	0	20,590	0	0	0	1,280,917									
7/6/2003	0	0	0	0	0	0	0	0	1,280,917									
7/7/2003	0	0	0	0	0	0	0	0	1,280,917									
7/8/2003	0	0	0	0	0	0	0	0	1,280,917									
7/9/2003	0	0	0	0	8,250	0	0	0	1,289,167									
7/10/2003	0	0	0	0	0	0	0	0	1,289,167									
7/11/2003	0	0	0	0	19,000	0	0	0	1,308,167									
7/12/2003	0	0	0	0	0	0	0	0	1,308,167									
7/13/2003	0	0	0	0	0	0	0	0	1,308,167									
7/14/2003	0	0	0	15,624	0	0	0	0	1,323,791									
7/15/2003	0	0	0	40,547	0	0	0	0	1,364,338									
7/16/2003	0	0	0	43,301	0	0	0	0	1,407,639									
7/17/2003	0	0	0	43,210	0	0	0	0	1,450,849									
7/18/2003	0	0	0	0	0	0	0	0	1,450,849									
7/19/2003	0	0	0	0	0	0	0	0	1,450,849									
7/20/2003	0	0	0	0	0	0	0	0	1,450,849									
7/21/2003	0	0	0	0	0	0	0	0	1,450,849									
7/22/2003	0	0	0	42,005	0	0	0	0	1,492,854									
7/23/2003	0	0	0	28,294	0	0	0	0	1,521,148									
7/24/2003	0	0	0	0	0	0	0	0	1,521,148									
7/25/2003	0	0	0	0	0	0	0	0	1,521,148									
7/26/2003	0	0	0	0	0	0	0	0	1,521,148									
7/27/2003	0	0	0	0	0	0	0	0	1,521,148									
7/28/2003	0	0	0	35,969	0	0	0	0	1,557,117									
7/29/2003	0	0	0	0	35,002	0	0	0	1,592,119									
7/30/2003	0	0	0	0	26,219	0	0	0	1,618,338									
7/31/2003	0	0	0	0	30,657	0	0	0	1,648,995	0	0	0	248,950	139,718	0	0	0	388,668
8/1/2003	0	0	0	0	0	0	0	0	1,648,995									
8/2/2003	0	0	0	0	0	0	0	0	1,648,995									
8/3/2003	0	0	0	0	0	0	0	0	1,648,995									
8/4/2003	0	0	0	0	0	0	0	0	1,648,995									

TABLE 7
LIQUID APPLICATION SUMMARY
Project XL
Maplewood Recycling and Waste Disposal Facility
Amelia County, Virginia

	Liquid Applied by Trench (gallons)									Monthly Summary by Trench								
Date	1	2	3	4	5	6	7	8	Cumulative Total	1	2	3	4	5	6	7	8	Monthly Total
8/5/2003	0	0	0	0	24,637	0	0	0	1,673,632									
8/6/2003	0	0	0	0	31,231	0	0	0	1,704,863									
8/7/2003	0	0	0	0	33,520	0	0	0	1,738,383									
8/8/2003	0	0	0	0	0	0	0	0	1,738,383									
8/9/2003	0	0	0	0	0	0	0	0	1,738,383									
8/10/2003	0	0	0	0	0	0	0	0	1,738,383									
8/11/2003	0	0	0	0	0	0	0	0	1,738,383									
8/12/2003	0	0	0	0	0	0	0	0	1,738,383									
8/13/2003	0	0	0	0	0	0	0	0	1,738,383									
8/14/2003	0	0	0	0	0	0	0	0	1,738,383									
8/15/2003	0	0	0	0	22,643	0	0	0	1,761,026									
8/16/2003	0	0	0	0	0	0	0	0	1,761,026									
8/17/2003	0	0	0	0	0	0	0	0	1,761,026									
8/18/2003	0	0	0	0	0	0	0	0	1,761,026									
8/19/2003	0	0	0	0	0	0	0	0	1,761,026									
8/20/2003	0	0	0	0	0	0	0	0	1,761,026									
8/21/2003	0	0	0	0	0	0	0	0	1,761,026									
8/22/2003	0	0	0	0	0	0	0	0	1,761,026									
8/23/2003	0	0	0	0	0	0	0	0	1,761,026									
8/24/2003	0	0	0	0	0	0	0	0	1,761,026									
8/25/2003	0	0	0	0	0	0	0	0	1,761,026									
8/26/2003	0	0	0	0	0	0	0	0	1,761,026									
8/27/2003	0	0	0	0	0	0	0	0	1,761,026									
8/28/2003	0	0	0	0	0	0	0	0	1,761,026									
8/29/2003	0	0	0	0	0	0	0	0	1,761,026									
8/30/2003	0	0	0	0	0	0	0	0	1,761,026									
8/31/2003	0	0	0	0	0	0	0	0	1,761,026	0	0	0	0	112,031	0	0	0	112,031
9/1/2003	0	0	0	0	0	0	0	0	1,761,026									
9/2/2003	0	0	0	0	0	0	0	0	1,761,026									
9/3/2003	0	0	0	0	0	0	0	0	1,761,026									
9/4/2003	0	0	0	0	0	0	0	0	1,761,026									
9/5/2003	0	0	0	0	0	0	0	0	1,761,026									
9/6/2003	0	0	0	0	0	0	0	0	1,761,026									
9/7/2003	0	0	0	0	0	0	0	0	1,761,026									
9/8/2003	0	0	0	0	0	0	0	0	1,761,026									
9/9/2003	0	0	0	0	0	0	0	0	1,761,026									
9/10/2003	0	0	0	0	0	0	0	0	1,761,026									
9/11/2003	0	0	0	0	0	0	0	0	1,761,026									
9/12/2003	0	0	0	0	0	0	0	0	1,761,026									
9/13/2003	0	0	0	0	0	0	0	0	1,761,026									
9/14/2003	0	0	0	0	0	0	0	0	1,761,026									
9/15/2003	0	0	0	0	0	0	0	0	1,761,026									
9/16/2003	0	0	0	0	38,501	0	0	0	1,799,527									
9/17/2003	0	0	0	0	42,003	0	0	0	1,841,530									
9/18/2003	0	0	0	35,919	0	0	0	0	1,877,449									
9/19/2003	0	0	0	0	0	0	0	0	1,877,449									
9/20/2003	0	0	0	0	0	0	0	0	1,877,449									
9/21/2003	0	0	0	0	0	0	0	0	1,877,449									
9/22/2003	0	0	0	0	0	0	0	0	1,877,449									
9/23/2003	0	0	0	50,719	0	0	0	0	1,928,168									
9/24/2003	0	0	0	0	0	0	0	0	1,928,168									
9/25/2003	0	0	0	0	0	0	0	0	1,928,168									
9/26/2003	0	0	22,608	0	0	0	0	0	1,950,776									
9/27/2003	0	0	0	0	0	0	0	0	1,950,776									
9/28/2003	0	0	0	0	0	0	0	0	1,950,776									
9/29/2003	0	0	0	0	0	0	0	0	1,950,776									
9/30/2003	0	15,802	0	31,065	0	0	0	0	1,997,643	0	15,802	22,608	117,703	80,504	0	0	0	236,617
10/1/2003	0	0	0	0	0	0	0	0	1,997,643									
10/2/2003	0	0	0	0	0	0	0	0	1,997,643									
10/3/2003	24,607	0	0	0	0	0	0	0	2,022,250									
10/4/2003	0	0	0	0	0	0	0	0	2,022,250									
10/5/2003	0	0	0	0	0	0	0	0	2,022,250									
10/6/2003	0	0	0	0	0	0	0	0	2,022,250									
10/7/2003	0	0	0	0	0	0	0	0	2,022,250									
10/8/2003	0	0	0	0	0	0	0	0	2,022,250									
10/9/2003	0	0	0	0	0	0	0	0	2,022,250									
10/10/2003	0	0	0	0	0	0	0	0	2,022,250									
10/11/2003	0	0	0	0	0	0	0	0	2,022,250									
10/12/2003	0	0	0	0	0	0	0	0	2,022,250									
10/13/2003	0	0	0	0	0	0	0	0	2,022,250									
10/14/2003	0	0	0	0	0	0	0	0	2,022,250									
10/15/2003	0	0	0	0	0	0	0	0	2,022,250									
10/16/2003	0	0	0	0	0	0	0	0	2,022,250									
10/17/2003	0	0	0	0	0	0	0	0	2,022,250									
10/18/2003	0	0	0	0	0	0	0	0	2,022,250									
10/19/2003	0	0	0	0	0	0	0	0	2,022,250									
10/20/2003	0	0	0	0	0	0	0	0	2,022,250									
10/21/2003	0	0	0	0	0	0	0	0	2,022,250									
10/22/2003	0	0	0	0	0	0	0	0	2,022,250									
10/23/2003	0	0	0	0	0	0	0	0	2,022,250									
10/24/2003	0	0	0	0	0	0	0	0	2,022,250									
10/25/2003	0	0	0	0	0	0	0	0	2,022,250									
10/26/2003	0	0	0	0	0	0	0	0	2,022,250									

TABLE 7
LIQUID APPLICATION SUMMARY
Project XL
Maplewood Recycling and Waste Disposal Facility
Amelia County, Virginia

	Liquid Applied by Trench (gallons)									Monthly Summary by Trench								
Date	1	2	3	4	5	6	7	8	Cumulative Total	1	2	3	4	5	6	7	8	Monthly Total
10/27/2003	0	0	0	0	0	0	0	0	2,022,250									
10/28/2003	0	0	0	0	0	0	0	0	2,022,250									
10/29/2003	0	0	0	0	0	0	0	0	2,022,250									
10/30/2003	0	0	0	0	0	0	0	0	2,022,250									
10/31/2003	0	0	0	0	0	0	0	0	2,022,250	24,607	0	0	0	0	0	0	0	24,607
11/1/2003	0	0	0	0	0	0	0	0	2,022,250									
11/2/2003	0	0	0	0	0	0	0	0	2,022,250									
11/3/2003	0	0	0	0	0	0	0	0	2,022,250									
11/4/2003	0	0	0	0	0	0	0	0	2,022,250									
11/5/2003	0	0	0	0	0	0	0	0	2,022,250									
11/6/2003	0	0	0	0	0	0	0	0	2,022,250									
11/7/2003	0	0	0	0	0	0	0	0	2,022,250									
11/8/2003	0	0	0	0	0	0	0	0	2,022,250									
11/9/2003	0	0	0	0	0	0	0	0	2,022,250									
11/10/2003	0	0	0	0	0	0	0	0	2,022,250									
11/11/2003	0	0	0	0	0	0	0	0	2,022,250									
11/12/2003	0	0	0	0	0	0	0	0	2,022,250									
11/13/2003	0	0	0	0	0	0	0	0	2,022,250									
11/14/2003	0	0	0	0	0	0	0	0	2,022,250									
11/15/2003	0	0	0	0	0	0	0	0	2,022,250									
11/16/2003	0	0	0	0	0	0	0	0	2,022,250									
11/17/2003	0	0	0	0	0	0	0	0	2,022,250									
11/18/2003	0	0	0	0	0	0	0	0	2,022,250									
11/19/2003	0	0	0	0	0	0	0	0	2,022,250									
11/20/2003	0	0	0	0	0	0	0	0	2,022,250									
11/21/2003	0	0	0	0	0	0	0	0	2,022,250									
11/22/2003	0	0	0	0	0	0	0	0	2,022,250									
11/23/2003	0	0	0	0	0	0	0	0	2,022,250									
11/24/2003	0	0	0	0	0	0	0	0	2,022,250									
11/25/2003	0	0	0	0	29,129	0	0	0	2,051,379									
11/26/2003	0	0	0	35,743	0	0	0	0	2,087,122									
11/27/2003	0	0	0	0	0	0	0	0	2,087,122									
11/28/2003	0	0	0	0	0	0	0	0	2,087,122									
11/29/2003	0	0	0	0	0	0	0	0	2,087,122									
11/30/2003	0	0	0	0	0	0	0	0	2,087,122	0	0	0	35,743	29,129	0	0	0	64,872
12/1/2003	0	0	0	0	0	0	0	0	2,087,122									
12/2/2003	0	0	0	0	0	0	0	0	2,087,122									
12/3/2003	0	0	0	0	0	0	0	0	2,087,122									
12/4/2003	0	0	0	0	0	0	0	0	2,087,122									
12/5/2003	0	0	0	0	0	0	0	0	2,087,122									
12/6/2003	0	0	0	0	0	0	0	0	2,087,122									
12/7/2003	0	0	0	0	0	0	0	0	2,087,122									
12/8/2003	0	0	0	0	0	0	0	0	2,087,122									
12/9/2003	0	0	0	33,959	0	0	0	0	2,121,081									
12/10/2003	0	0	0	0	38,624	0	0	0	2,159,705									
12/11/2003	0	0	0	0	43,783	0	0	0	2,203,488									
12/12/2003	0	0	0	0	28,066	0	0	0	2,231,554									
12/13/2003	0	0	0	0	0	0	0	0	2,231,554									
12/14/2003	0	0	0	0	0	0	0	0	2,231,554									
12/15/2003	0	0	0	0	0	0	0	0	2,231,554									
12/16/2003	0	0	0	0	0	0	0	0	2,231,554									
12/17/2003	0	0	0	0	53,913	0	0	0	2,285,467									
12/18/2003	0	0	0	0	41,915	0	0	0	2,327,382									
12/19/2003	0	0	0	40,002	0	0	0	0	2,367,384									
12/20/2003	0	0	0	0	0	0	0	0	2,367,384									
12/21/2003	0	0	0	0	0	0	0	0	2,367,384									
12/22/2003	0	0	0	0	0	0	0	0	2,367,384									
12/23/2003	0	0	0	29,617	0	0	0	0	2,397,001									
12/24/2003	0	0	0	0	0	0	0	0	2,397,001									
12/25/2003	0	0	0	0	0	0	0	0	2,397,001									
12/26/2003	0	0	0	37,199	0	0	0	0	2,434,200									
12/27/2003	0	0	0	0	0	0	0	0	2,434,200									
12/28/2003	0	0	0	0	0	0	0	0	2,434,200									
12/29/2003	0	0	0	0	0	0	0	0	2,434,200									
12/30/2003	0	0	0	0	0	0	0	0	2,434,200									
12/31/2003	0	0	0	0	31,999	0	0	0	2,466,199	0	0	0	140,777	238,300	0	0	0	379,077
1/1/2004	0	0	0	0	0	0	0	0	2,466,199									
1/2/2004	0	0	0	0	20,000	0	0	0	2,486,199									
1/3/2004	0	0	0	0	0	0	0	0	2,486,199									
1/4/2004	0	0	0	0	0	0	0	0	2,486,199									
1/5/2004	0	0	0	0	34,000	0	0	0	2,520,199									
1/6/2004	0	0	0	45,709	0	0	0	0	2,565,908									
1/7/2004	0	0	0	0	0	0	0	0	2,565,908									
1/8/2004	0	0	0	0	0	0	0	0	2,565,908									
1/9/2004	0	0	0	0	0	0	0	0	2,565,908									
1/10/2004	0	0	0	0	0	0	0	0	2,565,908									
1/11/2004	0	0	0	0	0	0	0	0	2,565,908									
1/12/2004	0	0	0	0	0	0	0	0	2,565,908									
1/13/2004	0	0	0	0	47,821	0	0	0	2,613,729									
1/14/2004	0	0	0	0	43,250	0	0	0	2,656,979									
1/15/2004	0	0	0	20,568	22,439	0	0	0	2,699,986									
1/16/2004	0	0	0	41,284	0	0	0	0	2,741,270									
1/17/2004	0	0	0	0	0	0	0	0	2,741,270									
1/18/2004	0	0	0	0	0	0	0	0	2,741,270									
1/19/2004	0	0	0	29,372	12,140	0	0	0	2,782,782									
1/20/2004	0	0	0	27,218	0	0	0	0	2,810,000									
1/21/2004	0	0	0	0	37,001	0	0	0	2,847,001									
1/22/2004	8,014	0	0	0	28,350	0	0	0	2,883,365									
1/23/2004	27,243	0	12,933	0	0	0	0	0	2,923,541									
1/24/2004	0	0	0	0	0	0	0	0	2,923,541									
1/25/2004	0	0	0	0	0	0	0	0	2,923,541									
1/26/2004	0	0	0	0	0	0	0	0	2,923,541									

TABLE 7
LIQUID APPLICATION SUMMARY
Project XL
Maplewood Recycling and Waste Disposal Facility
Amelia County, Virginia

	Liquid Applied by Trench (gallons)									Monthly Summary by Trench								
Date	1	2	3	4	5	6	7	8	Cumulative Total	1	2	3	4	5	6	7	8	Monthly Total
1/27/2004	0	0	0	0	0	0	0	0	2,923,541									
1/28/2004	0	0	0	0	0	0	0	0	2,923,541									
1/29/2004	0	0	0	0	0	0	0	0	2,923,541									
1/30/2004	0	0	0	0	0	0	0	0	2,923,541									
1/31/2004	0	0	0	0	0	0	0	0	2,923,541	35,257	0	12,933	164,151	245,001	0	0	0	457,342
2/1/2004	0	0	0	0	0	0	0	0	2,923,541									
2/2/2004	0	0	0	0	0	0	0	0	2,923,541									
2/3/2004	0	0	0	0	0	0	0	0	2,923,541									
2/4/2004	0	10,356	13,420	0	0	0	0	0	2,947,317									
2/5/2004	10,204	8,865	5,043	0	17,336	0	0	0	2,988,765									
2/6/2004	37,159	0	0	0	0	0	0	0	3,025,924									
2/7/2004	0	0	0	0	0	0	0	0	3,025,924									
2/8/2004	0	0	0	0	0	0	0	0	3,025,924									
2/9/2004	0	0	0	0	0	0	0	0	3,025,924									
2/10/2004	0	0	0	0	31,109	0	0	0	3,057,033									
2/11/2004	0	0	0	12,001	23,871	0	0	0	3,092,905									
2/12/2004	0	0	0	15,300	0	0	0	0	3,108,205									
2/13/2004	0	0	0	0	0	0	0	0	3,108,205									
2/14/2004	0	0	0	0	0	0	0	0	3,108,205									
2/15/2004	0	0	0	0	0	0	0	0	3,108,205									
2/16/2004	0	0	0	0	0	0	0	0	3,108,205									
2/17/2004	0	0	0	14,847	35,293	0	0	0	3,158,345									
2/18/2004	12,955	0	0	0	26,540	0	0	0	3,197,840									
2/19/2004	9,281	15,197	12,000	0	0	0	0	0	3,234,318									
2/20/2004	0	0	7,760	0	22,505	0	0	0	3,264,583									
2/21/2004	0	0	0	0	0	0	0	0	3,264,583									
2/22/2004	0	0	0	0	0	0	0	0	3,264,583									
2/23/2004	0	0	0	0	32,948	0	0	0	3,297,531									
2/24/2004	0	0	0	0	12,351	0	0	0	3,309,882									
2/25/2004	0	0	0	0	0	0	0	0	3,309,882									
2/26/2004	0	0	0	18,215	0	0	0	0	3,328,097									
2/27/2004	0	0	0	0	0	0	0	0	3,328,097									
2/28/2004	0	0	0	0	0	0	0	0	3,328,097									
2/29/2004	0	0	0	0	0	0	0	0	3,328,097	69,599	34,418	38,223	60,363	201,953	0	0	0	404,556
3/1/2004	0	0	0	0	32,531	0	0	0	3,360,628									
3/2/2004	0	0	0	0	0	0	0	0	3,360,628									
3/3/2004	0	0	0	0	0	0	0	0	3,360,628									
3/4/2004	0	0	0	0	0	0	0	0	3,360,628									
3/5/2004	0	0	0	0	0	0	0	0	3,360,628									
3/6/2004	0	0	0	0	0	0	0	0	3,360,628									
3/7/2004	0	0	0	0	0	0	0	0	3,360,628									
3/8/2004	0	0	0	0	0	0	0	0	3,360,628									
3/9/2004	0	0	0	0	24,229	0	0	0	3,384,857									
3/10/2004	0	0	0	0	0	0	0	0	3,384,857									
3/11/2004	0	0	0	0	0	0	0	0	3,384,857									
3/12/2004	0	0	0	0	0	0	0	0	3,384,857									
3/13/2004	0	0	0	0	0	0	0	0	3,384,857									
3/14/2004	0	0	0	0	0	0	0	0	3,384,857									
3/15/2004	0	0	0	0	0	0	0	0	3,384,857									
3/16/2004	0	0	0	0	0	0	0	0	3,384,857									
3/17/2004	0	0	0	0	0	0	0	0	3,384,857									
3/18/2004	0	0	0	0	0	0	0	0	3,384,857									
3/19/2004	0	0	0	0	27,260	0	0	0	3,412,117									
3/20/2004	0	0	0	0	0	0	0	0	3,412,117									
3/21/2004	0	0	0	0	0	0	0	0	3,412,117									
3/22/2004	0	0	0	0	0	0	0	0	3,412,117									
3/23/2004	0	0	0	0	0	0	0	0	3,412,117									
3/24/2004	0	0	0	0	37,018	0	0	0	3,449,135									
3/25/2004	0	0	0	0	0	0	0	0	3,449,135									
3/26/2004	0	0	0	0	0	0	0	0	3,449,135									
3/27/2004	0	0	0	0	0	0	0	0	3,449,135									
3/28/2004	0	0	0	0	0	0	0	0	3,449,135									
3/29/2004	0	0	0	0	0	0	0	0	3,449,135									
3/30/2004	0	0	0	0	0	0	0	0	3,449,135									
3/31/2004	0	0	0	0	36,367	0	0	0	3,485,502	0	0	0	0	157,405	0	0	0	157,405
4/1/2004	0	0	0	20,002	0	0	0	0	3,505,504									
4/2/2004	0	0	0	0	0	0	0	0	3,505,504									
4/3/2004	0	0	0	0	0	0	0	0	3,505,504									
4/4/2004	0	0	0	0	0	0	0	0	3,505,504									
4/5/2004	0	0	0	0	0	0	0	0	3,505,504									
4/6/2004	0	0	0	0	0	0	0	0	3,505,504									
4/7/2004	0	0	0	16,256	0	0	0	0	3,521,760									
4/8/2004	0	0	0	0	36,434	0	0	0	3,558,194									
4/9/2004	0	0	0	0	0	0	0	0	3,558,194									
4/10/2004	0	0	0	0	0	0	0	0	3,558,194									
4/11/2004	0	0	0	0	0	0	0	0	3,558,194									
4/12/2004	0	0	0	0	0	0	0	0	3,558,194									
4/13/2004	0	0	0	0	15,004	0	0	0	3,573,198									
4/14/2004	0	0	0	0	0	0	0	0	3,573,198									
4/15/2004	0	0	0	0	0	0	0	0	3,573,198									
4/16/2004	0	0	0	0	0	0	0	0	3,573,198									
4/17/2004	0	0	0	0	0	0	0	0	3,573,198									
4/18/2004	0	0	0	0	0	0	0	0	3,573,198									
4/19/2004	0	0	0	0	36,209	0	0	0	3,609,407									
4/20/2004	0	0	0	0	0	0	0	0	3,609,407									
4/21/2004	0	0	0	0	0	0	0	0	3,609,407									
4/22/2004	0	0	0	0	0	0	0	0	3,609,407									
4/23/2004	0	0	0	13,477	22,465	0	0	0	3,645,349									
4/24/2004	0	0	0	0	0	0	0	0	3,645,349									
4/25/2004	0	0	0	0	0	0	0	0	3,645,349									
4/26/2004	0	0	0	0	0	0	0	0	3,645,349									
4/27/2004	23,745	0	0	13,624	0	0	0	0	3,682,718									
4/28/2004	0	0	0	0	0	0	0	0	3,682,718									
4/29/2004	0	0	0	0	0	0	0	0	3,682,718									
4/30/2004	0	0	0	0	0	0	0	0	3,682,718	23,745	0	0	63,359	110,112	0	0	0	197,216

TABLE 7
LIQUID APPLICATION SUMMARY
Project XL
Maplewood Recycling and Waste Disposal Facility
Amelia County, Virginia

	Liquid Applied by Trench (gallons)									Monthly Summary by Trench								
Date	1	2	3	4	5	6	7	8	Cumulative Total	1	2	3	4	5	6	7	8	Monthly Total
5/1/2004	0	0	0	0	0	0	0	0	3,682,718									
5/2/2004	0	0	0	0	0	0	0	0	3,682,718									
5/3/2004	0	0	0	0	0	0	0	0	3,682,718									
5/4/2004	0	0	0	0	40,101	0	0	0	3,722,819									
5/5/2004	0	0	0	0	44,764	0	0	0	3,767,583									
5/6/2004	0	0	0	0	0	0	0	0	3,767,583									
5/7/2004	0	0	0	0	0	0	0	0	3,767,583									
5/8/2004	0	0	0	0	0	0	0	0	3,767,583									
5/9/2004	0	0	0	0	0	0	0	0	3,767,583									
5/10/2004	0	0	0	0	0	0	0	0	3,767,583									
5/11/2004	0	0	0	0	0	0	0	0	3,767,583									
5/12/2004	0	0	0	0	0	0	0	0	3,767,583									
5/13/2004	0	0	0	0	0	0	0	0	3,767,583									
5/14/2004	0	0	0	0	0	0	0	0	3,767,583									
5/15/2004	0	0	0	0	0	0	0	0	3,767,583									
5/16/2004	0	0	0	0	0	0	0	0	3,767,583									
5/17/2004	0	0	0	0	0	0	0	0	3,767,583									
5/18/2004	0	0	0	0	0	0	0	0	3,767,583									
5/19/2004	0	0	0	0	0	0	0	0	3,767,583									
5/20/2004	0	0	0	20,729	0	0	0	0	3,788,312									
5/21/2004	0	0	0	0	0	0	0	0	3,788,312									
5/22/2004	0	0	0	0	0	0	0	0	3,788,312									
5/23/2004	0	0	0	0	0	0	0	0	3,788,312									
5/24/2004	0	0	0	0	0	0	0	0	3,788,312									
5/25/2004	0	0	0	0	0	0	0	0	3,788,312									
5/26/2004	0	0	0	0	0	0	0	0	3,788,312									
5/27/2004	0	0	0	0	0	0	0	0	3,788,312									
5/28/2004	0	0	0	31,110	0	0	0	0	3,819,422									
5/29/2004	0	0	0	0	0	0	0	0	3,819,422									
5/30/2004	0	0	0	0	0	0	0	0	3,819,422									
5/31/2004	0	0	0	0	0	0	0	0	3,819,422	0	0	0	51,839	84,865	0	0	0	136,704
6/1/2004	0	0	0	0	0	0	0	0	3,819,422									
6/2/2004	0	0	0	19,257	0	0	0	0	3,838,679									
6/3/2004	22,970	19,276	0	0	0	0	0	0	3,880,925									
6/4/2004	0	0	0	0	0	0	0	0	3,880,925									
6/5/2004	0	0	0	0	0	0	0	0	3,880,925									
6/6/2004	0	0	0	0	0	0	0	0	3,880,925									
6/7/2004	0	0	0	0	0	0	0	0	3,880,925									
6/8/2004	0	0	0	0	0	0	0	0	3,880,925									
6/9/2004	0	0	0	0	0	0	0	0	3,880,925									
6/10/2004	0	0	0	0	0	0	0	0	3,880,925									
6/11/2004	0	0	0	18,238	0	0	0	0	3,899,163									
6/12/2004	0	0	0	0	0	0	0	0	3,899,163									
6/13/2004	0	0	0	0	0	0	0	0	3,899,163									
6/14/2004	0	0	0	0	0	0	0	0	3,899,163									
6/15/2004	0	0	0	0	0	0	0	0	3,899,163									
6/16/2004	0	0	0	12,909	0	0	0	0	3,912,072									
6/17/2004	0	0	0	0	35,362	0	0	0	3,947,434									
6/18/2004	0	0	0	0	35,498	0	0	0	3,982,932									
6/19/2004	0	0	0	0	0	0	0	0	3,982,932									
6/20/2004	0	0	0	0	0	0	0	0	3,982,932									
6/21/2004	0	0	0	0	0	0	0	0	3,982,932									
6/22/2004	0	0	0	0	0	0	0	0	3,982,932									
6/23/2004	0	0	0	0	0	0	0	0	3,982,932									
6/24/2004	0	0	0	0	0	0	0	0	3,982,932									
6/25/2004	0	0	0	0	0	0	0	0	3,982,932									
6/26/2004	0	0	0	0	0	0	0	0	3,982,932									
6/27/2004	0	0	0	0	0	0	0	0	3,982,932									
6/28/2004	0	0	0	0	0	0	0	0	3,982,932									
6/29/2004	0	0	0	0	46,247	0	0	0	4,029,179									
6/30/2004	13,280	0	18,502	0	15,529	0	0	0	4,076,490	36,250	19,276	18,502	50,404	132,636	0	301,695	511,133	257,068
7/1/2004	0	10,107	0	13,518	0	0	0	0	4,100,115									
7/2/2004	0	0	0	0	0	0	0	0	4,100,115									
7/3/2004	0	0	0	0	0	0	0	0	4,100,115									
7/4/2004	0	0	0	0	0	0	0	0	4,100,115									
7/5/2004	0	0	0	0	0	0	0	0	4,100,115									
7/6/2004	8,218	0	0	16,003	0	0	0	0	4,124,336									
7/7/2004	0	0	0	0	24,818	0	0	0	4,149,154									
7/8/2004	0	0	0	0	0	0	0	0	4,149,154									
7/9/2004	0	0	0	0	0	0	0	0	4,149,154									
7/10/2004	0	0	0	0	0	0	0	0	4,149,154									
7/11/2004	0	0	0	0	0	0	0	0	4,149,154									
7/12/2004	0	0	0	0	0	0	0	0	4,149,154									
7/13/2004	0	0	0	0	0	0	0	0	4,149,154									
7/14/2004	0	0	0	0	45,248	0	0	0	4,194,402									
7/15/2004	12,226	6,530	10,210	15,286	0	0	0	0	4,238,654									
7/16/2004	0	0	0	5,169	0	0	0	0	4,243,823									
7/17/2004	0	0	0	0	27,163	0	0	0	4,270,986									
7/18/2004	0	0	0	0	0	0	0	0	4,270,986									
7/19/2004	7,000	0	0	0	19,442	0	0	0	4,297,428									
7/20/2004	0	0	0	0	5,495	0	0	0	4,302,923									
7/21/2004	0	0	0	0	19,842	0	0	0	4,322,765									
7/22/2004	7,005	0	0	0	15,063	0	0	0	4,344,833									
7/23/2004	0	0	0	0	19,018	0	0	0	4,363,851									
7/24/2004	0	0	0	0	0	0	0	0	4,363,851									
7/25/2004	0	0	0	0	0	0	0	0	4,363,851									
7/26/2004	0	0	0	0	0	0	0	0	4,363,851									
7/27/2004	0	0	0	0	0	0	0	0	4,363,851									
7/28/2004	0	0	0	0	22,003	0	0	0	4,385,854									
7/29/2004	0	0	0	0	0	0	0	0	4,385,854									
7/30/2004	0	0	0	0	0	0	0	0	4,385,854									
7/31/2004	0	0	0	0	0	0	0	0	4,385,854	34,449	16,637	10,210	49,976	198,092	0	0	0	309,364

TABLE 7
LIQUID APPLICATION SUMMARY
Project XL
Maplewood Recycling and Waste Disposal Facility
Amelia County, Virginia

	Liquid Applied by Trench (gallons)									Monthly Summary by Trench								
Date	1	2	3	4	5	6	7	8	Cumulative Total	1	2	3	4	5	6	7	8	Monthly Total
8/1/2004	0	0	0	0	0	0	0	0	4,385,854									
8/2/2004	0	0	0	0	0	0	0	0	4,385,854									
8/3/2004	0	0	0	14,743	0	0	0	0	4,400,597									
8/4/2004	0	0	0	0	0	0	0	0	4,400,597									
8/5/2004	0	0	0	0	30,770	0	0	0	4,431,367									
8/6/2004	0	0	0	0	0	0	0	0	4,431,367									
8/7/2004	0	0	0	0	0	0	0	0	4,431,367									
8/8/2004	0	0	0	0	0	0	0	0	4,431,367									
8/9/2004	0	0	0	0	0	0	0	0	4,431,367									
8/10/2004	0	0	0	0	0	0	0	0	4,431,367									
8/11/2004	13,401	9,417	6,177	15,905	0	0	0	0	4,476,267									
8/12/2004	3,118	0	8,761	4,400	18,346	0	0	0	4,510,892									
8/13/2004	0	0	0	0	0	0	0	0	4,510,892									
8/14/2004	0	0	0	0	0	0	0	0	4,510,892									
8/15/2004	0	0	0	0	0	0	0	0	4,510,892									
8/16/2004	0	0	0	0	0	0	0	0	4,510,892									
8/17/2004	0	0	0	0	21,319	0	0	0	4,532,211									
8/18/2004	0	0	0	0	0	0	0	0	4,532,211									
8/19/2004	0	0	0	0	0	0	0	0	4,532,211									
8/20/2004	0	0	0	0	0	0	0	0	4,532,211									
8/21/2004	0	0	0	0	0	0	0	0	4,532,211									
8/22/2004	0	0	0	0	0	0	0	0	4,532,211									
8/23/2004	0	0	0	0	0	0	0	0	4,532,211									
8/24/2004	0	0	0	0	0	0	0	0	4,532,211									
8/25/2004	0	0	0	0	33,646	0	0	0	4,565,857									
8/26/2004	0	0	0	0	0	0	0	0	4,565,857									
8/27/2004	0	0	0	0	0	0	0	0	4,565,857									
8/28/2004	0	0	0	0	0	0	0	0	4,565,857									
8/29/2004	0	0	0	0	0	0	0	0	4,565,857									
8/30/2004	0	0	0	0	0	0	0	0	4,565,857									
8/31/2004	0	0	0	0	0	0	0	0	4,565,857	16,519	9,417	14,938	35,048	104,081	0	0	0	180,003
9/1/2004	0	0	0	0	0	0	0	0	4,565,857									
9/2/2004	0	0	0	0	0	0	0	0	4,565,857									
9/3/2004	0	0	0	0	0	0	0	0	4,565,857									
9/4/2004	0	0	0	0	0	0	0	0	4,565,857									
9/5/2004	0	0	0	0	0	0	0	0	4,565,857									
9/6/2004	0	0	0	0	0	0	0	0	4,565,857									
9/7/2004	0	0	0	0	0	0	0	0	4,565,857									
9/8/2004	0	0	0	0	0	0	0	0	4,565,857									
9/9/2004	0	0	0	0	0	0	0	0	4,565,857									
9/10/2004	0	0	0	0	0	0	0	0	4,565,857									
9/11/2004	0	0	0	0	0	0	0	0	4,565,857									
9/12/2004	0	0	0	0	0	0	0	0	4,565,857									
9/13/2004	0	0	0	0	0	0	0	0	4,565,857									
9/14/2004	0	0	0	0	44,311	0	0	0	4,610,168									
9/15/2004	0	0	0	0	0	0	0	0	4,610,168									
9/16/2004	15,997	0	0	0	25,462	0	0	0	4,651,627									
9/17/2004	3,920	6,860	0	0	0	0	0	0	4,662,407									
9/18/2004	0	0	0	0	0	0	0	0	4,662,407									
9/19/2004	0	0	0	0	0	0	0	0	4,662,407									
9/20/2004	0	0	0	0	0	0	0	0	4,662,407									
9/21/2004	0	0	0	0	0	0	0	0	4,662,407									
9/22/2004	0	0	0	12,875	29,049	0	0	0	4,704,331									
9/23/2004	0	0	0	0	0	0	0	0	4,704,331									
9/24/2004	0	0	0	0	0	0	0	0	4,704,331									
9/25/2004	0	0	0	0	0	0	0	0	4,704,331									
9/26/2004	0	0	0	0	0	0	0	0	4,704,331									
9/27/2004	0	0	0	0	0	0	0	0	4,704,331									
9/28/2004	0	0	0	0	0	0	0	0	4,704,331									
9/29/2004	0	0	0	0	46,053	0	0	0	4,750,384									
9/30/2004	9,596	5,608	8,523	13,310	0	0	0	0	4,787,421	29,513	12,468	8,523	26,185	144,875	0	0	0	221,564
10/1/2004	0	0	0	0	0	0	0	0	4,787,421									
10/2/2004	0	0	0	0	0	0	0	0	4,787,421									
10/3/2004	0	0	0	0	0	0	0	0	4,787,421									
10/4/2004	0	0	0	0	0	0	0	0	4,787,421									
10/5/2004	0	0	0	8,555	26,335	0	0	0	4,822,311									
10/6/2004	0	0	0	0	0	0	0	0	4,822,311									
10/7/2004	0	0	0	0	0	0	0	0	4,822,311									
10/8/2004	0	0	0	0	0	0	0	0	4,822,311									
10/9/2004	0	0	0	0	0	0	0	0	4,822,311									
10/10/2004	0	0	0	0	0	0	0	0	4,822,311									
10/11/2004	0	0	0	0	0	0	0	0	4,822,311									
10/12/2004	0	0	0	0	0	0	0	0	4,822,311									
10/13/2004	0	0	0	0	35,738	0	0	0	4,858,049									
10/14/2004	7,770	0	0	14,328	14,621	0	0	0	4,894,768									
10/15/2004	0	0	0	0	0	0	0	0	4,894,768									
10/16/2004	0	0	0	0	0	0	0	0	4,894,768									
10/17/2004	0	0	0	0	0	0	0	0	4,894,768									
10/18/2004	0	0	0	0	0	0	0	0	4,894,768									
10/19/2004	0	0	0	0	0	0	0	0	4,894,768									
10/20/2004	0	0	0	14,242	25,444	0	0	0	4,934,454									
10/21/2004	0	0	0	0	14,852	0	0	0	4,949,306									
10/22/2004	0	0	0	0	0	0	0	0	4,949,306									
10/23/2004	0	0	0	0	0	0	0	0	4,949,306									
10/24/2004	0	0	0	0	0	0	0	0	4,949,306									
10/25/2004	0	0	0	0	0	0	0	0	4,949,306									
10/26/2004	12,005	0	0	0	0	0	0	0	4,961,311									
10/27/2004	0	0	0	0	11,541	0	0	0	4,972,852									
10/28/2004	0	0	0	0	0	0	0	0	4,972,852									
10/29/2004	0	0	0	0	0	0	0	0	4,972,852									
10/30/2004	0	0	0	0	0	0	0	0	4,972,852									
10/31/2004	0	0	0	0	0	0	0	0	4,972,852	19,775	0	0	37,125	128,531	0	0	0	185,431

TABLE 7
LIQUID APPLICATION SUMMARY
Project XL
Maplewood Recycling and Waste Disposal Facility
Amelia County, Virginia

	Liquid Applied by Trench (gallons)									Monthly Summary by Trench								
Date	1	2	3	4	5	6	7	8	Cumulative Total	1	2	3	4	5	6	7	8	Monthly Total
11/1/2004	0	0	0	0	0	0	0	0	4,972,852									
11/2/2004	0	0	0	0	0	0	0	0	4,972,852									
11/3/2004	0	0	0	0	37,776	0	0	0	5,010,628									
11/4/2004	11,249	0	0	14,386	12,349	0	0	0	5,048,612									
11/5/2004	0	0	0	0	0	0	0	0	5,048,612									
11/6/2004	0	0	0	0	0	0	0	0	5,048,612									
11/7/2004	0	0	0	0	0	0	0	0	5,048,612									
11/8/2004	0	0	0	0	0	0	0	0	5,048,612									
11/9/2004	0	0	0	13,639	26,287	0	0	0	5,088,538									
11/10/2004	0	0	0	0	0	0	0	0	5,088,538									
11/11/2004	0	0	0	0	11,557	0	0	0	5,100,095									
11/12/2004	0	0	0	0	0	0	0	0	5,100,095									
11/13/2004	0	0	0	0	0	0	0	0	5,100,095									
11/14/2004	0	0	0	0	0	0	0	0	5,100,095									
11/15/2004	0	0	0	0	0	0	0	0	5,100,095									
11/16/2004	0	0	0	0	0	0	0	0	5,100,095									
11/17/2004	10,003	5,416	11,639	0	0	0	0	0	5,127,153									
11/18/2004	0	0	0	0	0	0	0	0	5,127,153									
11/19/2004	0	0	0	0	0	0	0	0	5,127,153									
11/20/2004	0	0	0	0	0	0	0	0	5,127,153									
11/21/2004	0	0	0	0	0	0	0	0	5,127,153									
11/22/2004	0	0	0	0	0	0	0	0	5,127,153									
11/23/2004	0	0	0	0	0	0	0	0	5,127,153									
11/24/2004	0	0	0	0	0	0	0	0	5,127,153									
11/25/2004	0	0	0	0	0	0	0	0	5,127,153									
11/26/2004	0	0	0	0	0	0	0	0	5,127,153									
11/27/2004	0	0	0	0	0	0	0	0	5,127,153									
11/28/2004	0	0	0	0	0	0	0	0	5,127,153									
11/29/2004	0	0	0	0	0	0	0	0	5,127,153									
11/30/2004	0	0	0	0	0	0	0	0	5,127,153	21,252	5,416	11,639	28,025	87,969	0	0	0	154,301
12/1/2004	0	0	0	0	0	0	0	0	5,127,153									
12/2/2004	0	0	0	0	0	0	0	0	5,127,153									
12/3/2004	0	0	0	0	42,818	0	0	0	5,169,971									
12/4/2004	0	0	0	0	0	0	0	0	5,169,971									
12/5/2004	0	0	0	0	0	0	0	0	5,169,971									
12/6/2004	0	0	0	0	0	0	0	0	5,169,971									
12/7/2004	0	0	0	0	31,225	0	0	0	5,201,196									
12/8/2004	11,910	0	10,127	16,213	0	0	0	0	5,239,446									
12/9/2004	4,352	5,648	3,971	4,525	16,007	0	0	0	5,273,949									
12/10/2004	0	0	0	0	0	0	0	0	5,273,949									
12/11/2004	0	0	0	0	0	0	0	0	5,273,949									
12/12/2004	0	0	0	0	0	0	0	0	5,273,949									
12/13/2004	0	0	0	0	0	0	0	0	5,273,949									
12/14/2004	0	0	0	0	32,777	0	0	0	5,306,726									
12/15/2004	0	0	0	0	0	0	0	0	5,306,726									
12/16/2004	0	0	0	0	0	0	0	0	5,306,726									
12/17/2004	0	0	0	0	0	0	0	0	5,306,726									
12/18/2004	0	0	0	0	0	0	0	0	5,306,726									
12/19/2004	0	0	0	0	0	0	0	0	5,306,726									
12/20/2004	0	0	0	0	0	0	0	0	5,306,726									
12/21/2004	0	0	0	0	0	0	0	0	5,306,726									
12/22/2004	0	0	0	0	0	0	0	0	5,306,726									
12/23/2004	0	0	0	0	0	0	0	0	5,306,726									
12/24/2004	0	0	0	0	0	0	0	0	5,306,726									
12/25/2004	0	0	0	0	0	0	0	0	5,306,726									
12/26/2004	0	0	0	0	0	0	0	0	5,306,726									
12/27/2004	0	0	0	0	0	0	0	0	5,306,726									
12/28/2004	0	0	0	0	0	0	0	0	5,306,726									
12/29/2004	0	0	0	0	0	0	0	0	5,306,726									
12/30/2004	0	0	0	0	0	0	0	0	5,306,726									
12/31/2004	0	0	0	0	0	0	0	0	5,306,726	16,262	5,648	14,098	20,738	122,827	0	0	0	179,573
1/1/2005	0	0	0	0	0	0	0	0	5,306,726									
1/2/2005	0	0	0	0	0	0	0	0	5,306,726									
1/3/2005	0	0	0	0	0	0	0	0	5,306,726									
1/4/2005	0	0	0	0	0	0	0	0	5,306,726									
1/5/2005	0	0	0	0	0	0	0	0	5,306,726									
1/6/2005	0	0	0	0	28,917	0	0	0	5,335,643									
1/7/2005	0	0	7,431	20,453	0	0	0	0	5,363,527									
1/8/2005	0	0	0	0	0	0	0	0	5,363,527									
1/9/2005	0	0	0	0	0	0	0	0	5,363,527									
1/10/2005	5,057	4,694	0	13,024	0	0	0	0	5,386,302									
1/11/2005	0	0	0	11,853	22,309	0	0	0	5,420,464									
1/12/2005	0	0	0	10,338	23,225	0	0	0	5,454,027									
1/13/2005	0	0	0	0	0	0	0	0	5,454,027									
1/14/2005	0	0	0	0	0	0	0	0	5,454,027									
1/15/2005	0	0	0	0	0	0	0	0	5,454,027									
1/16/2005	0	0	0	0	0	0	0	0	5,454,027									
1/17/2005	0	0	0	0	0	0	0	0	5,454,027									
1/18/2005	0	0	0	0	0	0	0	0	5,454,027									
1/19/2005	0	0	0	0	0	0	0	0	5,454,027									
1/20/2005	0	0	0	0	0	0	0	0	5,454,027									
1/21/2005	0	0	0	0	0	0	0	0	5,454,027									
1/22/2005	0	0	0	0	0	0	0	0	5,454,027									
1/23/2005	0	0	0	0	0	0	0	0	5,454,027									
1/24/2005	0	0	0	0	0	0	0	0	5,454,027									
1/25/2005	0	0	0	20,957	0	0	0	0	5,474,984									
1/26/2005	0	0	0	0	34,407	0	0	0	5,509,391									
1/27/2005	0	5,653	7,826	0	13,251	0	0	0	5,536,121									
1/28/2005	0	0	0	0	8,373	0	0	0	5,544,494									
1/29/2005	0	0	0	0	0	0	0	0	5,544,494									
1/30/2005	0	0	0	0	0	0	0	0	5,544,494									
1/31/2005	0	0	0	0	0	0	0	0	5,544,494	5,057	10,347	15,257	76,625	130,482	0	0	0	237,768

TABLE 7
LIQUID APPLICATION SUMMARY
Project XL
Maplewood Recycling and Waste Disposal Facility
Amelia County, Virginia

	Liquid Applied by Trench (gallons)									Monthly Summary by Trench								
Date	1	2	3	4	5	6	7	8	Cumulative Total	1	2	3	4	5	6	7	8	Monthly Total
2/1/2005	0	0	0	0	0	0	0	0	5,544,494									
2/2/2005	0	0	0	0	0	0	0	0	5,544,494									
2/3/2005	0	0	0	0	0	0	0	0	5,544,494									
2/4/2005	0	0	0	0	0	0	0	0	5,544,494									
2/5/2005	0	0	0	0	0	0	0	0	5,544,494									
2/6/2005	0	0	0	0	0	0	0	0	5,544,494									
2/7/2005	0	0	0	0	0	0	0	0	5,544,494									
2/8/2005	0	0	0	0	37,025	0	0	0	5,581,519									
2/9/2005	5,768	0	0	18,242	0	0	0	0	5,605,529									
2/10/2005	0	2,916	3,563	3,814	0	0	0	0	5,615,822									
2/11/2005	0	0	0	0	22,968	0	0	0	5,638,790									
2/12/2005	0	0	0	0	0	0	0	0	5,638,790									
2/13/2005	0	0	0	0	0	0	0	0	5,638,790									
2/14/2005	0	0	0	10,398	17,303	0	0	0	5,666,491									
2/15/2005	0	0	0	0	0	0	0	0	5,666,491									
2/16/2005	0	0	0	5,156	21,365	0	0	0	5,693,012									
2/17/2005	0	0	0	0	0	0	0	0	5,693,012									
2/18/2005	5,525	0	3,574	0	12,238	0	0	0	5,714,349									
2/19/2005	0	0	0	0	0	0	0	0	5,714,349									
2/20/2005	0	0	0	0	0	0	0	0	5,714,349									
2/21/2005	0	0	0	0	18,210	0	0	0	5,732,559									
2/22/2005	0	0	0	0	0	0	0	0	5,732,559									
2/23/2005	0	0	0	10,385	10,928	0	0	0	5,753,872									
2/24/2005	0	0	0	0	13,029	0	0	0	5,766,901									
2/25/2005	0	0	0	0	4,439	0	0	0	5,771,340									
2/26/2005	0	0	0	0	0	0	0	0	5,771,340									
2/27/2005	0	0	0	0	0	0	0	0	5,771,340									
2/28/2005	0	0	0	0	0	0	0	0	5,771,340	11,293	2,916	7,137	47,995	157,505	0	0	0	226,846
3/1/2005	0	0	0	0	0	0	0	0	5,771,340									
3/2/2005	0	0	0	0	0	0	0	0	5,771,340									
3/3/2005	0	0	0	0	5,571	0	0	0	5,776,911									
3/4/2005	0	0	0	10,092	18,327	0	0	0	5,805,330									
3/5/2005	0	0	0	0	0	0	0	0	5,805,330									
3/6/2005	0	0	0	0	0	0	0	0	5,805,330									
3/7/2005	0	0	0	5,324	12,353	0	0	0	5,823,007									
3/8/2005	0	0	0	0	10,458	0	0	0	5,833,465									
3/9/2005	4,919	4,033	0	0	9,234	0	0	0	5,851,651									
3/10/2005	0	0	0	0	0	0	0	0	5,851,651									
3/11/2005	0	0	0	8,346	14,516	0	0	0	5,874,513									
3/12/2005	0	0	0	0	0	0	0	0	5,874,513									
3/13/2005	0	0	0	0	0	0	0	0	5,874,513									
3/14/2005	0	0	0	0	14,734	0	0	0	5,889,247									
3/15/2005	0	0	0	4,701	0	0	0	0	5,893,948									
3/16/2005	0	0	0	5,636	15,307	0	0	0	5,914,891									
3/17/2005	0	0	0	0	0	0	0	0	5,914,891									
3/18/2005	0	0	0	0	9,915	0	0	0	5,924,806									
3/19/2005	0	0	0	0	0	0	0	0	5,924,806									
3/20/2005	0	0	0	0	0	0	0	0	5,924,806									
3/21/2005	0	0	0	0	19,608	0	0	0	5,944,414									
3/22/2005	0	0	0	0	0	0	0	0	5,944,414									
3/23/2005	5,813	0	0	8,919	0	0	0	0	5,959,146									
3/24/2005	0	0	6,391	0	0	0	0	0	5,965,537									
3/25/2005	0	0	0	0	29,079	0	0	0	5,994,616									
3/26/2005	0	0	0	0	0	0	0	0	5,994,616									
3/27/2005	0	0	0	0	0	0	0	0	5,994,616									
3/28/2005	0	0	0	0	0	0	0	0	5,994,616									
3/29/2005	0	0	0	0	0	0	0	0	5,994,616									
3/30/2005	0	0	0	0	12,607	0	0	0	6,007,223									
3/31/2005	0	0	0	0	0	0	0	0	6,007,223	10,732	4,033	6,391	43,018	171,709	0	0	0	235,883
4/1/2005	0	0	0	0	0	0	0	0	6,007,223									
4/2/2005	0	0	0	0	0	0	0	0	6,007,223									
4/3/2005	0	0	0	0	0	0	0	0	6,007,223									
4/4/2005	0	0	0	0	0	0	0	0	6,007,223									
4/5/2005	0	0	0	0	17,233	0	0	0	6,024,456									
4/6/2005	0	0	0	0	11,462	0	0	0	6,035,918									
4/7/2005	0	0	0	0	0	0	0	0	6,035,918									
4/8/2005	0	0	0	0	14,595	0	0	0	6,050,513									
4/9/2005	0	0	0	0	0	0	0	0	6,050,513									
4/10/2005	0	0	0	0	0	0	0	0	6,050,513									
4/11/2005	0	0	0	13,187	22,045	0	0	0	6,085,745									
4/12/2005	0	0	0	0	0	0	0	0	6,085,745									
4/13/2005	5,426	0	0	0	0	0	0	0	6,091,171									
4/14/2005	0	0	0	0	17,608	0	0	0	6,108,779									
4/15/2005	0	0	0	0	8,959	0	0	0	6,117,738									
4/16/2005	0	0	0	0	0	0	0	0	6,117,738									
4/17/2005	0	0	0	0	0	0	0	0	6,117,738									
4/18/2005	0	0	0	0	0	0	0	0	6,117,738									
4/19/2005	0	0	0	0	15,413	0	0	0	6,133,151									
4/20/2005	0	4,475	0	0	0	0	0	0	6,137,626									
4/21/2005	0	0	0	0	0	0	0	0	6,137,626									
4/22/2005	0	0	0	9,048	25,284	0	0	0	6,171,958									
4/23/2005	0	0	0	0	0	0	0	0	6,171,958									
4/24/2005	0	0	0	0	0	0	0	0	6,171,958									
4/25/2005	0	0	0	0	0	0	0	0	6,171,958									
4/26/2005	0	0	0	0	0	0	0	0	6,171,958									
4/27/2005	0	0	0	0	0	0	0	0	6,171,958									
4/28/2005	0	0	0	0	0	0	0	0	6,171,958									
4/29/2005	0	0	0	0	0	0	0	0	6,171,958									
4/30/2005	0	0	0	0	23,470	0	0	0	6,195,428	5,426	4,475	0	22,235	156,069	0	0	0	188,205

TABLE 7
LIQUID APPLICATION SUMMARY
Project XL
Maplewood Recycling and Waste Disposal Facility
Amelia County, Virginia

	Liquid Applied by Trench (gallons)									Monthly Summary by Trench								
Date	1	2	3	4	5	6	7	8	Cumulative Total	1	2	3	4	5	6	7	8	Monthly Total
5/1/2005	0	0	0	0	0	0	0	0	6,195,428									
5/2/2005	0	0	0	8,239	10,916	0	0	0	6,214,583									
5/3/2005	0	0	0	0	0	0	0	0	6,214,583									
5/4/2005	0	0	0	0	0	0	0	0	6,214,583									
5/5/2005	0	0	0	0	0	0	0	0	6,214,583									
5/6/2005	0	0	0	0	0	0	0	0	6,214,583									
5/7/2005	0	0	0	0	0	0	0	0	6,214,583									
5/8/2005	0	0	0	0	0	0	0	0	6,214,583									
5/9/2005	0	0	0	0	0	0	0	0	6,214,583									
5/10/2005	12,712	0	0	0	22,688	0	0	0	6,249,983									
5/11/2005	0	0	0	0	0	0	0	0	6,249,983									
5/12/2005	0	0	0	9,751	22,158	0	0	0	6,281,892									
5/13/2005	0	0	0	0	0	0	0	0	6,281,892									
5/14/2005	0	0	0	0	0	0	0	0	6,281,892									
5/15/2005	0	0	0	0	0	0	0	0	6,281,892									
5/16/2005	0	0	0	0	0	0	0	0	6,281,892									
5/17/2005	0	0	0	0	34,169	0	0	0	6,316,061									
5/18/2005	0	0	0	10,658	14,441	0	0	0	6,341,160									
5/19/2005	0	0	0	0	0	0	0	0	6,341,160									
5/20/2005	0	0	0	0	0	0	0	0	6,341,160									
5/21/2005	0	0	0	0	0	0	0	0	6,341,160									
5/22/2005	0	0	0	0	0	0	0	0	6,341,160									
5/23/2005	0	0	0	0	0	0	0	0	6,341,160									
5/24/2005	0	0	0	0	0	0	0	0	6,341,160									
5/25/2005	0	0	0	0	32,189	0	0	0	6,373,349									
5/26/2005	0	0	0	0	0	0	0	0	6,373,349									
5/27/2005	0	0	0	0	0	0	0	0	6,373,349									
5/28/2005	0	0	0	0	0	0	0	0	6,373,349									
5/29/2005	0	0	0	0	0	0	0	0	6,373,349									
5/30/2005	0	0	0	0	0	0	0	0	6,373,349									
5/31/2005	0	0	0	0	0	0	0	0	6,373,349	12,712	0	0	28,648	136,561	0	0	0	177,921
6/1/2005	0	0	0	0	38,295	0	0	0	6,411,644									
6/2/2005	0	0	0	0	0	0	0	0	6,411,644									
6/3/2005	0	0	0	0	0	0	0	0	6,411,644									
6/4/2005	0	0	0	0	0	0	0	0	6,411,644									
6/5/2005	0	0	0	0	0	0	0	0	6,411,644									
6/6/2005	0	0	0	0	0	0	0	0	6,411,644									
6/7/2005	0	0	0	0	0	0	0	0	6,411,644									
6/8/2005	0	0	0	0	28,247	0	0	0	6,439,891									
6/9/2005	0	0	0	0	0	0	0	0	6,439,891									
6/10/2005	0	0	0	0	0	0	0	0	6,439,891									
6/11/2005	0	0	0	0	0	0	0	0	6,439,891									
6/12/2005	0	0	0	0	0	0	0	0	6,439,891									
6/13/2005	0	0	0	0	0	0	0	0	6,439,891									
6/14/2005	0	0	0	0	0	0	0	0	6,439,891									
6/15/2005	0	0	0	0	31,954	0	0	0	6,471,845									
6/16/2005	0	0	0	0	0	0	0	0	6,471,845									
6/17/2005	0	0	0	0	0	0	0	0	6,471,845									
6/18/2005	0	0	0	0	0	0	0	0	6,471,845									
6/19/2005	0	0	0	0	0	0	0	0	6,471,845									
6/20/2005	0	0	0	0	27,138	0	0	0	6,498,983									
6/21/2005	0	0	0	0	0	0	0	0	6,498,983									
6/22/2005	0	0	0	0	0	0	0	0	6,498,983									
6/23/2005	0	0	0	0	0	0	0	0	6,498,983									
6/24/2005	0	0	0	0	0	0	0	0	6,498,983									
6/25/2005	0	0	0	0	0	0	0	0	6,498,983									
6/26/2005	0	0	0	0	0	0	0	0	6,498,983									
6/27/2005	0	0	0	0	0	0	0	0	6,498,983									
6/28/2005	0	0	0	0	0	0	0	0	6,498,983									
6/29/2005	0	0	0	0	30,020	0	0	0	6,529,003									
6/30/2005	0	0	0	0	0	0	0	0	6,529,003	0	0	0	0	155,654	0	0	0	155,654
7/1/2005	0	0	0	0	0	0	0	0	6,529,003									
7/2/2005	0	0	0	0	0	0	0	0	6,529,003									
7/3/2005	0	0	0	0	0	0	0	0	6,529,003									
7/4/2005	0	0	0	0	0	0	0	0	6,529,003									
7/5/2005	0	0	0	0	0	0	0	0	6,529,003									
7/6/2005	0	0	0	0	0	0	0	0	6,529,003									
7/7/2005	0	0	0	0	35,318	0	0	0	6,564,321									
7/8/2005	0	0	0	0	0	0	0	0	6,564,321									
7/9/2005	0	0	0	0	0	0	0	0	6,564,321									
7/10/2005	0	0	0	0	0	0	0	0	6,564,321									
7/11/2005	0	0	0	11,738	29,664	0	0	0	6,605,723									
7/12/2005	0	0	0	0	0	0	0	0	6,605,723									
7/13/2005	17,534	0	0	0	15,319	0	0	0	6,638,576									
7/14/2005	0	0	0	0	0	0	0	0	6,638,576									
7/15/2005	0	0	0	0	0	0	0	0	6,638,576									
7/16/2005	0	0	0	0	0	0	0	0	6,638,576									
7/17/2005	0	0	0	0	0	0	0	0	6,638,576									
7/18/2005	0	0	0	0	0	0	0	0	6,638,576									
7/19/2005	0	0	0	0	35,025	0	0	0	6,673,601									
7/20/2005	0	0	0	0	0	0	0	0	6,673,601									
7/21/2005	0	0	0	0	0	0	0	0	6,673,601									
7/22/2005	0	0	0	0	0	0	0	0	6,673,601									
7/23/2005	0	0	0	0	0	0	0	0	6,673,601									
7/24/2005	0	0	0	0	0	0	0	0	6,673,601									
7/25/2005	0	0	0	0	0	0	0	0	6,673,601									
7/26/2005	0	0	0	0	0	0	0	0	6,673,601									
7/27/2005	0	0	0	0	0	0	0	0	6,673,601									
7/28/2005	0	0	0	0	31,810	0	0	0	6,705,411									
7/29/2005	0	0	0	0	8,034	0	0	0	6,713,445									
7/30/2005	0	0	0	0	0	0	0	0	6,713,445									
7/31/2005	0	0	0	0	0	0	0	0	6,713,445	17,534	0	0	11,738	155,170	0	0	0	184,442

TABLE 7
LIQUID APPLICATION SUMMARY
Project XL
Maplewood Recycling and Waste Disposal Facility
Amelia County, Virginia

	Liquid Applied by Trench (gallons)									Monthly Summary by Trench								
Date	1	2	3	4	5	6	7	8	Cumulative Total	1	2	3	4	5	6	7	8	Monthly Total
8/1/2005	0	0	0	0	19,068	0	0	0	6,732,513									
8/2/2005	0	0	0	0	21,412	0	0	0	6,753,925									
8/3/2005	0	0	0	0	0	0	0	0	6,753,925									
8/4/2005	0	0	0	0	0	0	0	0	6,753,925									
8/5/2005	0	0	0	0	23,878	0	0	0	6,777,803									
8/6/2005	0	0	0	0	0	0	0	0	6,777,803									
8/7/2005	0	0	0	0	0	0	0	0	6,777,803									
8/8/2005	0	0	0	0	0	0	0	0	6,777,803									
8/9/2005	0	0	0	0	0	0	0	0	6,777,803									
8/10/2005	0	0	0	0	0	0	0	0	6,777,803									
8/11/2005	0	0	0	0	40,535	0	0	0	6,818,338									
8/12/2005	0	0	0	0	0	0	0	0	6,818,338									
8/13/2005	0	0	0	0	0	0	0	0	6,818,338									
8/14/2005	0	0	0	0	0	0	0	0	6,818,338									
8/15/2005	0	0	0	0	0	0	0	0	6,818,338									
8/16/2005	0	0	0	0	0	0	0	0	6,818,338									
8/17/2005	0	0	0	0	0	0	0	0	6,818,338									
8/18/2005	0	0	0	0	49,164	0	0	0	6,867,502									
8/19/2005	0	0	0	0	47,034	0	0	0	6,914,536									
8/20/2005	0	0	0	0	0	0	0	0	6,914,536									
8/21/2005	0	0	0	0	0	0	0	0	6,914,536									
8/22/2005	0	0	0	0	0	0	0	0	6,914,536									
8/23/2005	0	0	0	0	44,861	0	0	0	6,959,397									
8/24/2005	15,568	0	0	0	0	0	0	0	6,974,965									
8/25/2005	0	0	0	0	22,759	0	0	0	6,997,724									
8/26/2005	0	0	0	0	0	0	0	0	6,997,724									
8/27/2005	0	0	0	0	0	0	0	0	6,997,724									
8/28/2005	0	0	0	0	0	0	0	0	6,997,724									
8/29/2005	0	0	0	0	0	0	0	0	6,997,724									
8/30/2005	0	0	0	0	25,169	0	0	0	7,022,893									
8/31/2005	0	0	0	0	0	0	0	0	7,022,893	15,568	0	0	0	293,880	0	0	0	309,448
9/1/2005	0	0	0	0	0	0	0	0	7,022,893									
9/2/2005	0	0	0	0	28,184	0	0	0	7,051,077									
9/3/2005	0	0	0	0	0	0	0	0	7,051,077									
9/4/2005	0	0	0	0	0	0	0	0	7,051,077									
9/5/2005	0	0	0	0	0	0	0	0	7,051,077									
9/6/2005	0	0	0	0	0	0	0	0	7,051,077									
9/7/2005	0	0	0	0	0	0	0	0	7,051,077									
9/8/2005	0	0	0	0	0	0	0	0	7,051,077									
9/9/2005	0	0	0	0	0	0	0	0	7,051,077									
9/10/2005	0	0	0	0	0	0	0	0	7,051,077									
9/11/2005	0	0	0	0	0	0	0	0	7,051,077									
9/12/2005	0	0	0	0	0	0	0	0	7,051,077									
9/13/2005	0	0	0	0	45,948	0	0	0	7,097,025									
9/14/2005	0	0	0	0	22,145	0	0	0	7,119,170									
9/15/2005	0	0	0	0	22,952	0	0	0	7,142,122									
9/16/2005	0	0	0	0	0	0	0	0	7,142,122									
9/17/2005	0	0	0	0	0	0	0	0	7,142,122									
9/18/2005	0	0	0	0	0	0	0	0	7,142,122									
9/19/2005	0	0	0	0	0	0	0	0	7,142,122									
9/20/2005	0	0	0	0	36,019	0	0	0	7,178,141									
9/21/2005	0	0	0	0	0	0	0	0	7,178,141									
9/22/2005	0	0	0	0	0	0	0	0	7,178,141									
9/23/2005	0	0	0	0	29,625	0	0	0	7,207,766									
9/24/2005	0	0	0	0	0	0	0	0	7,207,766									
9/25/2005	0	0	0	0	0	0	0	0	7,207,766									
9/26/2005	0	0	0	0	0	0	0	0	7,207,766									
9/27/2005	0	0	0	0	32,925	0	0	0	7,240,691									
9/28/2005	0	0	0	0	0	0	0	0	7,240,691									
9/29/2005	0	0	0	0	19,295	0	0	0	7,259,986									
9/30/2005	0	0	0	0	0	0	0	0	7,259,986	0	0	0	0	237,093	0	0	0	237,093
10/1/2005	0	0	0	0	0	0	0	0	7,259,986									
10/2/2005	0	0	0	0	0	0	0	0	7,259,986									
10/3/2005	0	0	0	0	0	0	0	0	7,259,986									
10/4/2005	0	0	0	0	46,334	0	0	0	7,306,320									
10/5/2005	0	0	0	0	0	0	0	0	7,306,320									
10/6/2005	0	0	0	0	0	0	0	0	7,306,320									
10/7/2005	0	0	0	0	0	0	0	0	7,306,320									
10/8/2005	0	0	0	0	0	0	0	0	7,306,320									
10/9/2005	0	0	0	0	0	0	0	0	7,306,320									
10/10/2005	0	0	0	0	42,292	0	0	0	7,348,612									
10/11/2005	0	0	0	0	0	0	0	0	7,348,612									
10/12/2005	0	0	0	0	41,428	0	0	0	7,390,040									
10/13/2005	0	0	0	0	0	0	0	0	7,390,040									
10/14/2005	0	0	0	0	0	0	0	0	7,390,040									
10/15/2005	0	0	0	0	0	0	0	0	7,390,040									
10/16/2005	0	0	0	0	0	0	0	0	7,390,040									
10/17/2005	0	0	0	0	44,286	0	0	0	7,434,326									
10/18/2005	0	0	0	0	26,667	0	0	0	7,460,993									
10/19/2005	0	0	0	0	0	0	0	0	7,460,993									
10/20/2005	0	0	0	0	0	0	0	0	7,460,993									
10/21/2005	0	0	0	0	40,331	0	0	0	7,501,324									
10/22/2005	0	0	0	0	0	0	0	0	7,501,324									
10/23/2005	0	0	0	0	0	0	0	0	7,501,324									
10/24/2005	0	0	0	0	38,885	0	0	0	7,540,209									
10/25/2005	0	0	0	0	0	0	0	0	7,540,209									
10/26/2005	0	0	0	0	0	0	0	0	7,540,209									
10/27/2005	0	0	0	0	0	0	0	0	7,540,209									
10/28/2005	0	0	0	0	35,357	0	0	0	7,575,566									
10/29/2005	0	0	0	0	0	0	0	0	7,575,566									
10/30/2005	0	0	0	0	0	0	0	0	7,575,566									
10/31/2005	0	0	0	0	0	0	0	0	7,575,566	0	0	0	0	315,580	0	0	0	315,580

TABLE 7
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Project XL
Maplewood Recycling and Waste Disposal Facility
Amelia County, Virginia

	Liquid Applied by Trench (gallons)									Monthly Summary by Trench								
Date	1	2	3	4	5	6	7	8	Cumulative Total	1	2	3	4	5	6	7	8	Monthly Total
11/1/2005	0	0	0	0	42,740	0	0	0	7,618,306									
11/2/2005	0	0	0	0	0	0	0	0	7,618,306									
11/3/2005	0	0	0	0	0	0	0	0	7,618,306									
11/4/2005	0	0	0	0	32,268	0	0	0	7,650,574									
11/5/2005	0	0	0	0	0	0	0	0	7,650,574									
11/6/2005	0	0	0	0	0	0	0	0	7,650,574									
11/7/2005	0	0	0	0	0	0	0	0	7,650,574									
11/8/2005	0	0	0	0	0	0	0	0	7,650,574									
11/9/2005	0	0	0	0	0	0	0	0	7,650,574									
11/10/2005	0	0	0	0	0	0	0	0	7,650,574									
11/11/2005	0	0	0	0	0	0	0	35,298	7,685,872									
11/12/2005	0	0	0	0	0	0	0	32,317	7,718,189									
11/13/2005	0	0	0	0	0	0	0	0	7,718,189									
11/14/2005	0	0	0	0	39,983	0	0	6,752	7,764,924									
11/15/2005	15,227	0	0	0	0	0	0	28,726	7,808,877									
11/16/2005	0	0	0	0	0	0	0	0	7,808,877									
11/17/2005	0	0	0	0	0	0	0	0	7,808,877									
11/18/2005	0	0	0	0	0	0	0	29,654	7,838,531									
11/19/2005	0	0	0	0	0	0	0	0	7,838,531									
11/20/2005	0	0	0	0	0	0	0	0	7,838,531									
11/21/2005	0	0	0	0	0	0	0	45,238	7,883,769									
11/22/2005	0	0	0	0	0	0	0	0	7,883,769									
11/23/2005	0	0	0	0	0	0	0	0	7,883,769									
11/24/2005	0	0	0	0	0	0	0	0	7,883,769									
11/25/2005	0	0	0	0	0	0	0	0	7,883,769									
11/26/2005	0	0	0	0	0	0	0	0	7,883,769									
11/27/2005	0	0	0	0	0	0	0	0	7,883,769									
11/28/2005	0	0	0	0	0	0	0	0	7,883,769									
11/29/2005	0	0	0	0	0	0	0	32,275	7,916,044									
11/30/2005	0	0	0	0	38,773	0	0	0	7,954,817	15,227	0	0	0	153,764	0	0	210,260	379,251
12/1/2005	0	0	0	0	0	0	43,341	0	7,998,158									
12/2/2005	0	0	0	0	0	0	39,081	0	8,037,239									
12/3/2005	0	0	0	0	0	0	0	0	8,037,239									
12/4/2005	0	0	0	0	0	0	0	0	8,037,239									
12/5/2005	0	0	0	0	0	0	0	0	8,037,239									
12/6/2005	0	0	0	0	0	0	0	0	8,037,239									
12/7/2005	0	0	0	0	0	0	0	0	8,037,239									
12/8/2005	0	0	0	0	0	0	0	0	8,037,239									
12/9/2005	0	0	0	0	0	0	0	0	8,037,239									
12/10/2005	0	0	0	0	0	0	0	0	8,037,239									
12/11/2005	0	0	0	0	0	0	0	0	8,037,239									
12/12/2005	0	0	0	0	0	0	0	0	8,037,239									
12/13/2005	0	0	0	0	0	0	0	0	8,037,239									
12/14/2005	0	0	0	0	0	0	0	0	8,037,239									
12/15/2005	0	0	0	0	0	0	0	0	8,037,239									
12/16/2005	0	0	0	0	0	0	0	0	8,037,239									
12/17/2005	0	0	0	0	0	0	0	0	8,037,239									
12/18/2005	0	0	0	0	0	0	0	0	8,037,239									
12/19/2005	0	0	0	0	0	0	0	0	8,037,239									
12/20/2005	0	0	0	0	30,963	0	0	0	8,068,202									
12/21/2005	0	0	0	0	0	0	0	0	8,068,202									
12/22/2005	0	0	0	0	0	0	0	0	8,068,202									
12/23/2005	0	0	0	0	0	0	0	0	8,068,202									
12/24/2005	0	0	0	0	0	0	0	0	8,068,202									
12/25/2005	0	0	0	0	0	0	0	0	8,068,202									
12/26/2005	0	0	0	0	0	0	0	0	8,068,202									
12/27/2005	0	0	0	0	43,490	0	0	0	8,111,692									
12/28/2005	0	0	0	0	0	0	0	40,852	8,152,544									
12/29/2005	0	0	0	0	0	0	44,402	0	8,196,946									
12/30/2005	0	0	0	0	0	0	0	0	8,196,946									
12/31/2005	0	0	0	0	0	0	0	0	8,196,946	0	0	0	0	74,453	0	126,824	40,852	242,129
1/1/2006	0	0	0	0	0	0	0	0	8,196,946									
1/2/2006	0	0	0	0	0	0	21,363	0	8,218,309									
1/3/2006	0	0	0	0	36,621	0	0	0	8,254,930									
1/4/2006	0	0	0	0	36,143	0	0	0	8,291,073									
1/5/2006	0	0	0	0	0	0	0	35,571	8,326,644									
1/6/2006	0	0	0	0	19,803	0	0	0	8,346,447									
1/7/2006	0	0	0	0	0	0	0	0	8,346,447									
1/8/2006	0	0	0	0	0	0	0	0	8,346,447									
1/9/2006	0	0	0	0	0	0	0	0	8,346,447									
1/10/2006	0	0	0	0	0	0	0	0	8,346,447									
1/11/2006	0	0	0	0	0	0	0	0	8,346,447									
1/12/2006	0	0	0	0	0	0	0	0	8,346,447									
1/13/2006	0	0	0	0	0	0	0	0	8,346,447									
1/14/2006	0	0	0	0	0	0	0	0	8,346,447									
1/15/2006	0	0	0	0	0	0	0	0	8,346,447									
1/16/2006	0	0	0	0	0	0	0	0	8,346,447									
1/17/2006	0	0	0	0	0	0	0	0	8,346,447									
1/18/2006	0	0	0	0	0	0	0	0	8,346,447									
1/19/2006	0	0	0	0	0	0	0	0	8,346,447									
1/20/2006	0	0	0	0	0	0	0	0	8,346,447									
1/21/2006	0	0	0	0	0	0	0	0	8,346,447									
1/22/2006	0	0	0	0	0	0	0	0	8,346,447									
1/23/2006	0	0	0	0	0	0	0	0	8,346,447									
1/24/2006	0	0	0	0	37,672	0	0	0	8,384,119									
1/25/2006	0	0	0	0	0	0	0	0	8,384,119									
1/26/2006	0	0	0	0	40,069	0	0	0	8,424,188									
1/27/2006	0	0	0	0	27,421	0	0	0	8,451,609									
1/28/2006	0	0	0	0	0	0	0	0	8,451,609									
1/29/2006	0	0	0	0	0	0	0	0	8,451,609									
1/30/2006	0	0	0	0	35,627	0	0	0	8,487,236									
1/31/2006	0	0	0	0	0	0	0	0	8,487,236	0	0	0	0	233,356	0	21,363	35,571	290,290

TABLE 7
LIQUID APPLICATION SUMMARY
Project XL
Maplewood Recycling and Waste Disposal Facility
Amelia County, Virginia

	Liquid Applied by Trench (gallons)									Monthly Summary by Trench								
Date	1	2	3	4	5	6	7	8	Cumulative Total	1	2	3	4	5	6	7	8	Monthly Total
2/1/2006	0	0	0	0	33,348	0	0	0	8,520,584									
2/2/2006	0	0	0	0	0	0	0	42,398	8,562,982									
2/3/2006	0	0	0	0	0	0	0	0	8,562,982									
2/4/2006	0	0	0	0	0	0	0	0	8,562,982									
2/5/2006	0	0	0	0	0	0	0	0	8,562,982									
2/6/2006	0	0	0	0	0	0	0	0	8,562,982									
2/7/2006	0	0	0	0	0	0	0	30,613	8,593,595									
2/8/2006	0	0	0	0	0	0	0	0	8,593,595									
2/9/2006	0	0	0	0	25,599	0	0	0	8,619,194									
2/10/2006	0	0	0	0	0	0	0	0	8,619,194									
2/11/2006	0	0	0	0	0	0	0	0	8,619,194									
2/12/2006	0	0	0	0	0	0	0	0	8,619,194									
2/13/2006	0	0	0	0	0	0	0	0	8,619,194									
2/14/2006	0	0	0	0	0	0	0	0	8,619,194									
2/15/2006	0	0	0	0	38,287	0	0	0	8,657,481									
2/16/2006	0	0	0	0	0	0	0	0	8,657,481									
2/17/2006	0	0	0	0	0	0	0	0	8,657,481									
2/18/2006	0	0	0	0	0	0	0	0	8,657,481									
2/19/2006	0	0	0	0	0	0	0	0	8,657,481									
2/20/2006	0	0	0	0	0	0	0	0	8,657,481									
2/21/2006	0	0	0	0	0	0	0	0	8,657,481									
2/22/2006	0	0	0	0	40,575	0	0	0	8,698,056									
2/23/2006	0	0	0	0	0	0	0	0	8,698,056									
2/24/2006	0	0	0	0	0	0	0	0	8,698,056									
2/25/2006	0	0	0	0	0	0	0	0	8,698,056									
2/26/2006	0	0	0	0	0	0	0	0	8,698,056									
2/27/2006	0	0	0	0	0	0	0	0	8,698,056									
2/28/2006	0	0	0	0	43,474	0	0	0	8,741,530	0	0	0	0	181,283	0	0	73,011	254,294
3/1/2006	0	0	0	0	0	0	38,851	0	8,780,381									
3/2/2006	0	0	0	0	0	0	0	0	8,780,381									
3/3/2006	0	0	0	0	0	0	0	41,408	8,821,789									
3/4/2006	0	0	0	0	0	0	0	0	8,821,789									
3/5/2006	0	0	0	0	0	0	0	0	8,821,789									
3/6/2006	0	0	0	0	0	0	0	0	8,821,789									
3/7/2006	0	0	0	0	0	0	0	0	8,821,789									
3/8/2006	0	0	0	0	0	0	0	0	8,821,789									
3/9/2006	0	0	0	0	0	0	0	0	8,821,789									
3/10/2006	0	0	0	0	39,733	0	0	0	8,861,522									
3/11/2006	0	0	0	0	0	0	0	0	8,861,522									
3/12/2006	0	0	0	0	0	0	0	0	8,861,522									
3/13/2006	0	0	0	0	44,582	0	0	0	8,906,104									
3/14/2006	0	0	0	0	0	0	0	0	8,906,104									
3/15/2006	0	0	0	0	0	0	0	0	8,906,104									
3/16/2006	0	0	0	0	0	0	0	0	8,906,104									
3/17/2006	0	0	0	0	0	0	0	0	8,906,104									
3/18/2006	0	0	0	0	0	0	0	0	8,906,104									
3/19/2006	0	0	0	0	0	0	0	0	8,906,104									
3/20/2006	0	0	0	0	0	0	0	0	8,906,104									
3/21/2006	0	0	0	0	0	0	0	0	8,906,104									
3/22/2006	0	0	0	0	0	0	0	0	8,906,104									
3/23/2006	0	0	0	0	0	0	0	0	8,906,104									
3/24/2006	0	0	0	0	36,536	0	0	0	8,942,640									
3/25/2006	0	0	0	0	0	0	0	0	8,942,640									
3/26/2006	0	0	0	0	0	0	0	0	8,942,640									
3/27/2006	0	0	0	0	42,146	0	0	0	8,984,786									
3/28/2006	0	0	0	0	0	0	0	0	8,984,786									
3/29/2006	0	0	0	0	25,799	0	0	0	9,010,585									
3/30/2006	0	0	0	0	0	0	0	0	9,010,585									
3/31/2006	0	0	0	0	0	0	0	0	9,010,585	0	0	0	0	188,796	0	38,851	41,408	269,055
4/1/2006	0	0	0	0	0	0	0	0	9,010,585									
4/2/2006	0	0	0	0	0	0	0	0	9,010,585									
4/3/2006	0	0	0	0	0	0	0	0	9,010,585									
4/4/2006	0	0	0	0	0	0	0	0	9,010,585									
4/5/2006	0	0	0	0	0	0	0	0	9,010,585									
4/6/2006	0	0	0	0	0	0	0	0	9,010,585									
4/7/2006	0	0	0	0	0	0	0	0	9,010,585									
4/8/2006	0	0	0	0	0	0	0	0	9,010,585									
4/9/2006	0	0	0	0	0	0	0	0	9,010,585									
4/10/2006	0	0	0	0	0	0	0	0	9,010,585									
4/11/2006	0	0	0	0	0	0	0	39,678	9,050,263									
4/12/2006	0	0	0	0	0	0	0	0	9,050,263									
4/13/2006	0	0	0	0	0	0	0	34,028	9,084,291									
4/14/2006	0	0	0	0	0	0	0	0	9,084,291									
4/15/2006	0	0	0	0	0	0	0	0	9,084,291									
4/16/2006	0	0	0	0	0	0	0	0	9,084,291									
4/17/2006	0	0	0	0	0	0	0	0	9,084,291									
4/18/2006	0	0	0	0	42,274	0	0	0	9,126,565									
4/19/2006	0	0	0	0	0	0	38,916	0	9,165,481									
4/20/2006	0	0	0	0	35,050	0	0	0	9,200,531									
4/21/2006	0	0	0	0	0	0	0	0	9,200,531									
4/22/2006	0	0	0	0	0	0	0	0	9,200,531									
4/23/2006	0	0	0	0	0	0	0	0	9,200,531									
4/24/2006	0	0	0	0	0	0	0	0	9,200,531									
4/25/2006	0	0	0	0	0	0	0	0	9,200,531									
4/26/2006	0	0	0	0	0	0	0	0	9,200,531									
4/27/2006	0	0	0	0	0	0	0	0	9,200,531									
4/28/2006	0	0	0	0	0	0	0	0	9,200,531									
4/29/2006	0	0	0	0	0	0	0	0	9,200,531									
4/30/2006	0	0	0	0	0	0	0	0	9,200,531	0	0	0	0	77,324	0	38,916	73,706	189,946

TABLE 7
LIQUID APPLICATION SUMMARY
Project XL
Maplewood Recycling and Waste Disposal Facility
Amelia County, Virginia

	Liquid Applied by Trench (gallons)									Monthly Summary by Trench								
Date	1	2	3	4	5	6	7	8	Cumulative Total	1	2	3	4	5	6	7	8	Monthly Total
5/1/2006	0	0	0	0	0	0	0	0	9,200,531									
5/2/2006	0	0	0	0	0	0	0	0	9,200,531									
5/3/2006	0	0	0	0	0	0	0	0	9,200,531									
5/4/2006	0	0	0	0	35,884	0	0	0	9,236,415									
5/5/2006	0	0	0	0	0	0	0	0	9,236,415									
5/6/2006	0	0	0	0	0	0	0	0	9,236,415									
5/7/2006	0	0	0	0	0	0	0	0	9,236,415									
5/8/2006	0	0	0	0	0	0	0	0	9,236,415									
5/9/2006	0	0	0	0	43,324	0	0	0	9,279,739									
5/10/2006	0	0	0	0	0	0	43,627	0	9,323,366									
5/11/2006	0	0	0	0	0	0	0	0	9,323,366									
5/12/2006	0	0	0	0	0	0	0	0	9,323,366									
5/13/2006	0	0	0	0	0	0	0	0	9,323,366									
5/14/2006	0	0	0	0	0	0	0	0	9,323,366									
5/15/2006	0	0	0	0	0	0	0	0	9,323,366									
5/16/2006	0	0	0	0	0	0	0	0	9,323,366									
5/17/2006	0	0	0	0	35,077	0	0	0	9,358,443									
5/18/2006	0	0	0	0	0	0	0	0	9,358,443									
5/19/2006	0	0	0	0	0	0	0	0	9,358,443									
5/20/2006	0	0	0	0	0	0	0	0	9,358,443									
5/21/2006	0	0	0	0	0	0	0	0	9,358,443									
5/22/2006	0	0	0	0	0	0	0	0	9,358,443									
5/23/2006	0	0	0	0	31,826	0	0	0	9,390,269									
5/24/2006	0	0	0	0	0	0	0	0	9,390,269									
5/25/2006	0	0	0	0	36,129	0	0	0	9,426,398									
5/26/2006	0	0	0	0	0	0	0	0	9,426,398									
5/27/2006	0	0	0	0	0	0	0	0	9,426,398									
5/28/2006	0	0	0	0	0	0	0	0	9,426,398									
5/29/2006	0	0	0	0	0	0	0	0	9,426,398									
5/30/2006	0	0	0	0	0	0	0	0	9,426,398									
5/31/2006	0	0	0	0	31,530	0	0	0	9,457,928	0	0	0	0	213,770	0	43,627	0	257,397
6/1/2006	0	0	0	0	0	0	0	0	9,457,928									
6/2/2006	0	0	0	0	0	0	0	0	9,457,928									
6/3/2006	0	0	0	0	0	0	0	0	9,457,928									
6/4/2006	0	0	0	0	0	0	0	0	9,457,928									
6/5/2006	0	0	0	0	0	0	0	0	9,457,928									
6/6/2006	0	0	0	0	37,727	0	0	0	9,495,655									
6/7/2006	0	0	0	0	0	0	0	0	9,495,655									
6/8/2006	0	0	0	0	0	0	0	0	9,495,655									
6/9/2006	0	0	0	0	0	0	0	0	9,495,655									
6/10/2006	0	0	0	0	0	0	0	0	9,495,655									
6/11/2006	0	0	0	0	0	0	0	0	9,495,655									
6/12/2006	0	0	0	0	0	0	0	0	9,495,655									
6/13/2006	0	0	0	0	21,127	0	0	0	9,516,782									
6/14/2006	0	0	0	0	26,835	0	0	0	9,543,617									
6/15/2006	0	0	0	0	28,239	0	0	0	9,571,856									
6/16/2006	0	0	0	0	0	0	0	36,325	9,608,181									
6/17/2006	0	0	0	0	0	0	0	0	9,608,181									
6/18/2006	0	0	0	0	0	0	0	0	9,608,181									
6/19/2006	0	0	0	0	39,866	0	0	0	9,648,047									
6/20/2006	0	0	0	0	0	0	0	0	9,648,047									
6/21/2006	0	0	0	0	0	0	32,114	0	9,680,161									
6/22/2006	0	0	0	0	0	0	0	0	9,680,161									
6/23/2006	0	0	0	0	0	0	0	0	9,680,161									
6/24/2006	0	0	0	0	0	0	0	0	9,680,161									
6/25/2006	0	0	0	0	0	0	0	0	9,680,161									
6/26/2006	0	0	0	0	0	0	0	0	9,680,161									
6/27/2006	0	0	0	0	0	0	0	0	9,680,161									
6/28/2006	0	0	0	0	0	0	0	0	9,680,161									
6/29/2006	0	0	0	0	0	0	0	0	9,680,161									
6/30/2006	0	0	0	0	25,867	0	0	0	9,706,028	0	0	0	0	179,661	0	32,114	36,325	248,100
7/1/2006	0	0	0	0	0	0	0	0	9,706,028									
7/2/2006	0	0	0	0	0	0	0	0	9,706,028									
7/3/2006	0	0	0	0	0	0	0	0	9,706,028									
7/4/2006	0	0	0	0	0	0	0	0	9,706,028									
7/5/2006	0	0	0	0	38,366	0	0	0	9,744,394									
7/6/2006	0	0	0	0	23,089	0	0	0	9,767,483									
7/7/2006	0	0	0	0	27,267	0	0	0	9,794,750									
7/8/2006	0	0	0	0	0	0	0	0	9,794,750									
7/9/2006	0	0	0	0	0	0	0	0	9,794,750									
7/10/2006	0	0	0	0	29,971	0	0	0	9,824,721									
7/11/2006	0	0	0	0	0	0	0	40,791	9,865,512									
7/12/2006	0	0	0	0	0	29,124	9,241	0	9,903,877									
7/13/2006	0	0	0	0	29,898	0	0	7,677	9,941,452									
7/14/2006	0	0	10,661	9,116	0	0	0	0	9,961,229									
7/15/2006	0	0	0	0	0	0	0	0	9,961,229									
7/16/2006	0	0	0	0	0	0	0	0	9,961,229									
7/17/2006	0	0	0	0	27,797	0	0	0	9,989,026									
7/18/2006	0	0	0	0	0	0	0	0	9,989,026									
7/19/2006	0	0	0	0	0	0	0	0	9,989,026									
7/20/2006	0	0	0	0	0	0	0	0	9,989,026									
7/21/2006	0	0	0	0	0	0	0	0	9,989,026									
7/22/2006	0	0	0	0	0	0	0	0	9,989,026									
7/23/2006	0	0	0	0	0	0	0	0	9,989,026									
7/24/2006	0	0	0	0	0	0	0	0	9,989,026									
7/25/2006	0	0	0	0	0	0	0	0	9,989,026									
7/26/2006	0	0	0	0	0	0	0	0	9,989,026									
7/27/2006	0	0	0	0	0	0	0	0	9,989,026									
7/28/2006	0	0	0	0	0	0	0	0	9,989,026									
7/29/2006	0	0	0	0	0	0	0	0	9,989,026									
7/30/2006	0	0	0	0	0	0	0	0	9,989,026									
7/31/2006	0	0	0	0	0	0	0	0	9,989,026	0	0	10,661	9,116	176,388	29,124	9,241	48,468	282,998

TABLE 7
LIQUID APPLICATION SUMMARY
Project XL
Maplewood Recycling and Waste Disposal Facility
Amelia County, Virginia

	Liquid Applied by Trench (gallons)									Monthly Summary by Trench								
Date	1	2	3	4	5	6	7	8	Cumulative Total	1	2	3	4	5	6	7	8	Monthly Total
8/1/2006	0	0	0	0	36,533	0	0	0	10,025,559									
8/2/2006	0	0	0	0	0	0	0	0	10,025,559									
8/3/2006	0	0	0	0	40,288	0	0	0	10,065,847									
8/4/2006	0	0	0	0	0	0	0	36,681	10,102,528									
8/5/2006	0	0	0	0	0	0	0	0	10,102,528									
8/6/2006	0	0	0	0	0	0	0	0	10,102,528									
8/7/2006	0	0	0	0	0	0	0	0	10,102,528									
8/8/2006	0	0	0	0	32,459	0	0	0	10,134,987									
8/9/2006	0	0	0	0	0	0	23,129	0	10,158,116									
8/10/2006	0	0	0	0	0	0	0	0	10,158,116									
8/11/2006	0	0	0	0	0	0	0	0	10,158,116									
8/12/2006	0	0	0	0	0	0	0	0	10,158,116									
8/13/2006	0	0	0	0	0	0	0	0	10,158,116									
8/14/2006	0	0	0	0	0	0	0	0	10,158,116									
8/15/2006	0	0	0	0	0	0	0	0	10,158,116									
8/16/2006	0	0	0	0	0	0	0	0	10,158,116									
8/17/2006	0	0	0	0	0	0	0	0	10,158,116									
8/18/2006	0	0	0	0	0	0	0	0	10,158,116									
8/19/2006	0	0	0	0	0	0	0	0	10,158,116									
8/20/2006	0	0	0	0	0	0	0	0	10,158,116									
8/21/2006	0	0	0	0	35,450	0	0	0	10,193,566									
8/22/2006	0	0	0	0	0	0	0	0	10,193,566									
8/23/2006	0	0	0	0	21,059	0	0	0	10,214,625									
8/24/2006	0	0	0	0	0	0	0	0	10,214,625									
8/25/2006	0	0	0	0	0	0	0	0	10,214,625									
8/26/2006	0	0	0	0	0	0	0	0	10,214,625									
8/27/2006	0	0	0	0	0	0	0	0	10,214,625									
8/28/2006	0	0	0	0	0	0	0	0	10,214,625									
8/29/2006	0	0	0	0	32,723	0	0	0	10,247,348									
8/30/2006	0	0	0	0	0	0	0	0	10,247,348									
8/31/2006	0	0	0	0	32,563	0	0	0	10,279,911	0	0	0	0	231,075	0	23,129	36,681	290,885
9/1/2006	0	0	0	0	0	0	0	0	10,279,911									
9/2/2006	0	0	0	0	0	0	0	0	10,279,911									
9/3/2006	0	0	0	0	0	0	0	0	10,279,911									
9/4/2006	0	0	0	0	0	0	0	0	10,279,911									
9/5/2006	0	0	0	0	37,356	0	0	0	10,317,267									
9/6/2006	0	0	0	0	0	0	24,494	0	10,341,761									
9/7/2006	0	0	0	0	0	0	0	0	10,341,761									
9/8/2006	0	0	0	0	37,983	0	0	0	10,379,744									
9/9/2006	0	0	0	0	0	0	0	0	10,379,744									
9/10/2006	0	0	0	0	0	0	0	0	10,379,744									
9/11/2006	0	0	0	0	40,467	0	0	0	10,420,211									
9/12/2006	0	0	0	0	0	0	0	0	10,420,211									
9/13/2006	0	0	0	0	0	0	0	0	10,420,211									
9/14/2006	0	0	0	0	0	0	0	0	10,420,211									
9/15/2006	0	0	0	0	0	0	0	0	10,420,211									
9/16/2006	0	0	0	0	0	0	0	0	10,420,211									
9/17/2006	0	0	0	0	0	0	0	0	10,420,211									
9/18/2006	0	0	0	0	0	0	0	0	10,420,211									
9/19/2006	0	0	0	0	40,505	0	0	0	10,460,716									
9/20/2006	0	0	0	0	0	0	0	0	10,460,716									
9/21/2006	0	0	0	0	0	0	0	0	10,460,716									
9/22/2006	0	0	0	0	0	0	0	0	10,460,716									
9/23/2006	0	0	0	0	0	0	0	0	10,460,716									
9/24/2006	0	0	0	0	0	0	0	0	10,460,716									
9/25/2006	0	0	0	0	32,266	0	0	0	10,492,982									
9/26/2006	0	0	0	0	0	0	20,073	0	10,513,055									
9/27/2006	0	0	0	0	0	0	0	0	10,513,055									
9/28/2006	0	0	0	0	26,021	0	0	0	10,539,076									
9/29/2006	0	0	0	0	0	0	0	0	10,539,076									
9/30/2006	0	0	0	0	0	0	0	0	10,539,076	0	0	0	0	214,598	0	44,567	0	259,165
10/1/2006	0	0	0	0	0	0	0	0	10,539,076									
10/2/2006	0	0	0	0	33,649	0	0	0	10,572,725									
10/3/2006	0	0	0	0	0	0	0	0	10,572,725									
10/4/2006	0	0	0	0	0	0	0	0	10,572,725									
10/5/2006	0	0	0	0	0	0	0	0	10,572,725									
10/6/2006	0	0	0	0	24,975	0	0	0	10,597,700									
10/7/2006	0	0	0	0	0	0	0	0	10,597,700									
10/8/2006	0	0	0	0	17,338	0	0	0	10,615,038									
10/9/2006	0	0	0	0	12,528	0	23,539	0	10,651,105									
10/10/2006	0	0	0	0	0	0	0	0	10,651,105									
10/11/2006	0	0	0	0	0	0	25,323	0	10,676,428									
10/12/2006	0	0	0	0	0	0	0	0	10,676,428									
10/13/2006	0	0	0	0	0	0	0	0	10,676,428									
10/14/2006	0	0	0	0	0	0	0	0	10,676,428									
10/15/2006	0	0	0	0	0	0	0	0	10,676,428									
10/16/2006	0	0	0	0	0	0	0	0	10,676,428									
10/17/2006	0	0	0	0	0	0	0	0	10,676,428									
10/18/2006	0	0	0	0	0	0	0	0	10,676,428									
10/19/2006	0	0	0	0	0	0	0	0	10,676,428									
10/20/2006	0	0	0	0	0	0	0	0	10,676,428									
10/21/2006	0	0	0	0	0	0	0	0	10,676,428									
10/22/2006	0	0	0	0	0	0	0	0	10,676,428									
10/23/2006	0	0	0	0	0	0	0	0	10,676,428									
10/24/2006	0	0	0	0	0	0	0	0	10,676,428									
10/25/2006	0	0	0	0	0	0	0	0	10,676,428									
10/26/2006	0	0	0	0	0	0	0	0	10,676,428									
10/27/2006	0	0	0	0	0	0	0	0	10,676,428									
10/28/2006	0	0	0	0	0	0	0	0	10,676,428									
10/29/2006	0	0	0	0	0	0	0	0	10,676,428									
10/30/2006	0	0	0	0	0	0	0	0	10,676,428									
10/31/2006	0	0	0	0	0	0	0	0	10,676,428	0	0	0	0	88,490	0	48,862	0	137,352

TABLE 7
LIQUID APPLICATION SUMMARY
Project XL
Maplewood Recycling and Waste Disposal Facility
Amelia County, Virginia

	Liquid Applied by Trench (gallons)									Monthly Summary by Trench								
Date	1	2	3	4	5	6	7	8	Cumulative Total	1	2	3	4	5	6	7	8	Monthly Total
11/1/2006	0	0	0	0	0	0	0	0	10,676,428									
11/2/2006	0	0	0	0	0	0	0	0	10,676,428									
11/3/2006	0	0	0	0	0	0	0	0	10,676,428									
11/4/2006	0	0	0	0	0	0	0	0	10,676,428									
11/5/2006	0	0	0	0	0	0	0	0	10,676,428									
11/6/2006	0	0	0	0	0	0	0	0	10,676,428									
11/7/2006	0	0	0	0	0	0	0	0	10,676,428									
11/8/2006	0	0	0	0	0	0	0	0	10,676,428									
11/9/2006	0	0	0	0	0	0	0	0	10,676,428									
11/10/2006	0	0	0	0	0	0	0	0	10,676,428									
11/11/2006	0	0	0	0	0	0	0	0	10,676,428									
11/12/2006	0	0	0	0	0	0	0	0	10,676,428									
11/13/2006	0	0	0	0	0	0	0	0	10,676,428									
11/14/2006	0	0	0	0	0	0	0	0	10,676,428									
11/15/2006	0	0	0	0	0	0	0	0	10,676,428									
11/16/2006	0	0	0	0	0	0	0	0	10,676,428									
11/17/2006	0	0	0	0	0	0	0	0	10,676,428									
11/18/2006	0	0	0	0	0	0	0	0	10,676,428									
11/19/2006	0	0	0	0	0	0	0	0	10,676,428									
11/20/2006	0	0	0	0	0	0	0	0	10,676,428									
11/21/2006	0	0	0	0	0	0	0	0	10,676,428									
11/22/2006	0	0	0	0	0	0	0	0	10,676,428									
11/23/2006	0	0	0	0	0	0	0	0	10,676,428									
11/24/2006	0	0	0	0	0	0	0	0	10,676,428									
11/25/2006	0	0	0	0	0	0	0	0	10,676,428									
11/26/2006	0	0	0	0	0	0	0	0	10,676,428									
11/27/2006	0	0	0	0	0	0	0	0	10,676,428									
11/28/2006	0	0	0	0	0	0	0	0	10,676,428									
11/29/2006	0	0	0	0	0	0	0	0	10,676,428									
11/30/2006	0	0	0	0	0	0	0	0	10,676,428	0	0	0	0	0	0	0	0	0
12/1/2006	0	0	0	0	0	0	0	0	10,676,428									
12/2/2006	0	0	0	0	0	0	0	0	10,676,428									
12/3/2006	0	0	0	0	0	0	0	0	10,676,428									
12/4/2006	0	0	0	0	0	0	0	0	10,676,428									
12/5/2006	0	0	0	0	0	0	0	0	10,676,428									
12/6/2006	0	0	0	0	0	0	0	0	10,676,428									
12/7/2006	0	0	0	0	0	0	0	0	10,676,428									
12/8/2006	0	0	0	0	0	0	0	0	10,676,428									
12/9/2006	0	0	0	0	0	0	0	0	10,676,428									
12/10/2006	0	0	0	0	0	0	0	0	10,676,428									
12/11/2006	0	0	0	0	0	0	0	0	10,676,428									
12/12/2006	0	0	0	0	0	0	0	0	10,676,428									
12/13/2006	0	0	0	0	0	0	0	0	10,676,428									
12/14/2006	0	0	0	0	0	0	0	0	10,676,428									
12/15/2006	0	0	0	0	0	0	0	0	10,676,428									
12/16/2006	0	0	0	0	0	0	0	0	10,676,428									
12/17/2006	0	0	0	0	0	0	0	0	10,676,428									
12/18/2006	0	0	0	0	0	0	0	0	10,676,428									
12/19/2006	0	0	0	0	0	0	0	0	10,676,428									
12/20/2006	0	0	0	0	0	0	0	0	10,676,428									
12/21/2006	0	0	0	0	0	0	0	0	10,676,428									
12/22/2006	0	0	0	0	0	0	0	0	10,676,428									
12/23/2006	0	0	0	0	0	0	0	0	10,676,428									
12/24/2006	0	0	0	0	0	0	0	0	10,676,428									
12/25/2006	0	0	0	0	0	0	0	0	10,676,428									
12/26/2006	0	0	0	0	0	0	0	0	10,676,428									
12/27/2006	0	0	0	0	0	0	0	0	10,676,428									
12/28/2006	0	0	0	0	0	0	0	0	10,676,428									
12/29/2006	0	0	0	0	0	0	0	0	10,676,428									
12/30/2006	0	0	0	0	0	0	0	0	10,676,428									
12/31/2006	0	0	0	0	0	0	0	0	10,676,428	0	0	0	0	0	0	0	0	0

Total per trench	883,949	476,929	652,199	1,369,761	6,240,690	29,124	427,494	596,282	Total Leachate Recirculated	10,676,428
Daily Average	626	338	462	1,254	5,715	126	1,843	2,570	Total Daily Average	7,567

All units are in gallons

TABLE 8
SUMMARY OF LANDFILL SETTLEMENT DATA
Project XL
Maplewood Recycling and Waste Disposal Facility
Amelia County, Virginia

Point No.	Northing	Easting	Elev 8/2/02	Elev 10/24/02	Elev 3/10/03	Elev 6/9/03	Elev 1/12/04	Elev 3/18/04	Elev 1/3/05	Elev 4/21/05	Elev 10/17/05	Elev 12/28/05	Elev 7/13/06	Difference in grade 7/13/2006 to 10/17/2005
Control Area														
1004	3,635,349.73	11,610,244.17	485.87	485.39	484.32	484.13	484.03	483.61	482.48	482.16	481.49	481.32	480.73	-0.76
1005	3,635,448.00	11,610,262.56	485.51	485.04	483.96	483.96	483.02	482.47	481.11	480.66	479.90	479.69	479.07	-0.83
1006	3,635,546.31	11,610,280.96	488.10	487.72	486.94	486.84	485.51	485.22	484.08	483.57	483.03	482.90	482.30	-0.73
1007	3,635,644.56	11,610,299.35	489.08	488.77	488.12	487.53	486.91	486.64	485.44	484.85	483.94	483.82	482.95	-0.99
1008	3,635,742.79	11,610,317.74	489.29	489.21	488.64	487.82	486.85	486.34	483.92	483.24	482.22	482.20	481.61	-0.61
1018	3,635,662.70	11,610,201.04	486.24	486.08	485.38	485.31	484.40	483.84	482.48	481.77	481.06	480.99	480.26	-0.80
1019	3,635,564.34	11,610,182.66	484.57	484.27	483.48	483.48	482.15	481.85	480.82	480.32	479.62	479.52	478.88	-0.74
1020	3,635,466.17	11,610,164.24	483.05	482.72	481.84	481.84	479.85	479.31	478.34	477.87	477.07	476.87	476.37	-0.70
1021	3,635,367.83	11,610,145.87	482.26	481.94	481.14	480.70	479.24	478.85	477.89	477.55	476.97	476.82	476.34	-0.63
1022	3,635,269.54	11,610,127.55	480.97	480.59	479.64	478.91	479.54	479.23	478.20	477.77	477.92	477.59	477.10	-0.82
1023	3,635,171.30	11,610,109.13	477.72	477.37	476.35	476.35	478.66	478.53	478.09	477.70	477.22	477.04	476.74	-0.48
1024	3,635,189.69	11,610,010.81	472.04	471.74	471.08	471.08	474.40	474.06	472.41	475.04	474.06	473.83	473.18	-0.88
1025	3,635,091.34	11,609,992.34	468.72	468.35	468.35	468.00	473.79	473.28	472.03	471.49	473.24	473.10	472.34	-0.90
1026	3,635,288.00	11,610,029.13	474.30	474.05	473.33	473.09	474.65	474.73	474.09	473.69	474.13	473.69	473.08	-1.05
1027	3,635,386.32	11,610,047.53	475.71	475.20	474.73	474.48	476.15	475.95	475.62	475.22	475.28	475.04	474.41	-0.87
1028	3,635,484.54	11,610,066.03	477.62	477.36	476.44	476.44	476.72	476.26	475.18	474.75	476.51	476.29	475.64	-0.87
1029	3,635,582.91	11,610,084.37	479.07	478.85	478.18	478.18	477.68	477.64	476.32	475.94	477.64	477.42	476.59	-1.05
1030	3,635,681.10	11,610,102.80	480.72	480.53	480.04	479.70	479.08	478.68	477.46	477.08	477.41	477.24	476.71	-0.70
1041	3,635,699.44	11,610,004.53	472.92	472.85	472.55	472.55	473.00	472.77	471.78	471.52	472.82	472.67	471.85	-0.97
1042	3,635,601.14	11,609,986.14	472.03	471.81	471.20	471.04	472.61	472.17	471.52	471.15	475.20	474.92	473.98	-1.22
1043	3,635,502.84	11,609,967.77	471.02	470.75	470.05	470.05	471.77	471.47	470.77	470.24	474.24	474.23	473.34	-0.90
1044	3,635,404.59	11,609,949.32	470.05	469.80	469.09	468.54	472.03	471.64	470.83	470.42	474.14	473.95	473.29	-0.85
1045	3,635,306.31	11,609,930.87	468.07	467.72	467.18	466.62	469.80	469.42	468.58	467.98	472.61	472.18	471.42	-1.19
1046	3,635,208.01	11,609,912.58	465.01	464.78	464.63	464.63	468.90	468.41	467.72	466.97	471.59	470.78	470.01	-1.58
1047	3,635,109.73	11,609,894.15	461.57	461.29	461.29	460.78	466.86	466.28	464.43	463.98	470.24	469.75	469.02	-1.22
1048	3,635,011.39	11,609,875.70	452.50	452.28	452.21	452.21	479.66	478.67	472.82	472.16	470.30	470.20	469.57	-0.73
1049	3,635,029.78	11,609,777.38	452.53	452.46	452.03	451.09	462.43	461.96	460.65	460.34	466.80	466.37	465.46	-1.34
1050	3,635,128.05	11,609,795.71	454.78	454.55	454.02	454.02	462.06	461.56	460.05	459.87	467.80	466.83	465.78	-2.02
1051	3,635,226.37	11,609,814.18	457.93	457.68	457.03	456.81	463.32	462.79	461.54	461.14	469.16	468.51	467.61	-1.55
1052	3,635,324.67	11,609,832.49	460.81	460.65	460.12	460.12	464.61	464.17	463.10	462.68	471.05	470.62	469.77	-1.28
1053	3,635,422.98	11,609,850.93	463.32	462.89	462.30	462.30	465.49	465.10	464.38	464.13	471.95	471.62	470.90	-1.05
1054	3,635,521.22	11,609,869.39	465.71	465.18	464.52	464.52	465.49	464.80	463.60	463.27	471.15	470.98	469.88	-1.27
1055	3,635,619.61	11,609,887.68	466.06	465.78	465.30	465.01	467.16	466.31	465.82	465.38	471.45	471.05	470.15	-1.30
1056	3,635,717.83	11,609,906.15	466.95	466.84	466.58	466.58	467.52	467.29	467.10	466.84	467.91	467.80	467.15	-0.76
1067	3,635,736.32	11,609,807.82	463.21	463.04	462.80	462.25	463.21	463.48	462.44	462.36	464.20	464.82	464.20	0.00
1068	3,635,638.08	11,609,789.37	461.01	460.97	460.44	460.44	463.17	462.83	461.77	461.49	466.94	466.78	465.74	-1.20
1069	3,635,539.79	11,609,770.95	460.16	460.00	459.25	458.78	461.13	460.45	458.88	458.45	467.49	467.18	466.06	-1.43
1070	3,635,441.45	11,609,752.58	457.70	457.48	456.88	456.88	460.51	460.12	459.41	459.08	468.24	467.93	466.98	-1.26
1071	3,635,343.15	11,609,734.20	455.12	455.02	454.67	454.65	458.56	458.36	457.49	457.26	467.98	467.55	466.60	-1.38
1072	3,635,244.85	11,609,715.82	451.48	451.32	450.68	450.68	457.49	456.94	455.71	455.36	466.32	465.74	464.54	-1.78
1073	3,635,146.56	11,609,697.41	448.58	448.38	447.76	447.76	456.46	455.98	454.22	453.70	464.38	463.49	462.00	-2.38
1074	3,635,048.25	11,609,679.00	448.55	448.41	448.64	445.64	455.31	454.86	453.14	452.58	463.13	462.98	461.53	-1.60
1075	3,635,066.63	11,609,580.65	439.54	439.45	438.48	438.48	450.73	449.69	448.16	447.67	458.87	458.04	456.72	-2.15
1076	3,635,164.92	11,609,599.02	440.47	440.40	440.16	440.16	451.40	450.80	449.19	448.31	460.04	459.43	458.21	-1.83
1077	3,635,263.23	11,609,617.48	445.99	445.91	445.44	445.42	451.66	451.28	449.36	449.03	461.98	461.65	460.44	-1.54
1078	3,635,361.52	11,609,635.86	448.91	448.78	448.43	448.43	452.94	452.77	452.27	452.03	463.42	463.00	461.96	-1.46
1079	3,635,459.84	11,609,654.19	451.72	451.54	450.93	450.93	454.86	454.46	453.33	452.93	463.77	463.34	462.35	-1.42
1080	3,635,558.09	11,609,672.62	452.56	452.25	451.37	451.37	454.66	454.19	453.12	452.56	462.79	462.39	461.30	-1.49
1081	3,635,656.40	11,609,691.02	455.31	455.09	454.79	454.79	457.63	457.52	456.60	456.17	462.42	462.06	461.12	-1.30
1094	3,635,674.74	11,609,592.74	450.59	450.51	450.09	449.89	451.82	451.63	451.31	450.97	457.53	457.36	456.66	-0.87
1095	3,635,576.47	11,609,574.29	447.01	446.77	446.03	445.82	448.73	448.31	446.79	446.14	457.93	457.52	456.37	-1.56
1096	3,635,478.15	11,609,555.97	445.83	445.63	445.28	445.28	447.60	447.24	446.73	446.38	458.01	457.59	456.52	-1.49
1097	3,635,379.86	11,609,537.48	444.65	444.56	444.13	443.40	447.20	446.91	446.20	445.84	458.09	457.58	456.24	-1.85
1098	3,635,281.56	11,609,519.19	440.66	440.57	440.24	440.24	446.77	446.56	445.61	445.29	456.87	456.28	455.24	-1.63
1099	3,635,183.28	11,609,500.81	437.68	437.37	437.46	437.72	447.89	447.18	445.34	444.90	457.25	456.48	455.19	-2.06
1100	3,635,084.97	11,609,482.37	435.45	435.41	435.41	435.41	449.79	448.80	445.71	445.08	443.97	443.71	442.82	-1.15
1101	3,635,092.33	11,609,443.10	434.95	434.92	434.70	434.70	440.69	440.07	437.90	437.54	437.19	437.04	436.44	-0.75
1103	3,635,201.68	11,609,402.49	434.51	434.30	434.30	434.30	440.66	440.12	437.87	437.45	435.60	435.52	435.04	-0.56
1104	3,635,299.97	11,609,420.80	435.96	435.88	435.55	435.55	441.00	440.51	439.52	439.11	448.10	447.62	446.62	-1.48
1105	3,635,398.26	11,609,439.26	438.83	438.82	438.54	438.42	441.90	441.59	440.94	440.69	452.49	452.05	450.75	-1.74
1106	3,635,496.53	11,609,457.76	439.74	439.74	439.32	439.32	440.81	440.59	439.99	439.61	453.05	452.51	451.27	-1.78
1107	3,635,594.83	11,609,476.11	440.55	440.34	439.86	439.86	441.84	441.25	440.85	440.27	453.27	452.92	451.68	-1.59
1108	3,635,693.11	11,609,494.53	444.53	444.34	443.75	443.75	444.67	444.11	442.98	442.55	452.01	451.82	450.95	-1.06
1121	3,635,711.48	11,609,396.28	443.54	443.45	442.99	442.99	442.13	441.83	441.29	441.01	447.82	447.58	446.81	-1.01
1122	3,635,613.24	11,609,377.78	439.75	439.61	438.85	438.50	438.29	438.03	437.00	436.66	448.66	448.38	447.57	-1.09
1123	3,635,514.93	11,609,359.43	436.73	436.49	435.93	435.93	435.61	435.28	435.84	435.19	445.76	445.25		0.00
1124	3,635,416.63	11,609,341.06	435.79	435.75	435.35	435.22	437.63	437.54	437.85	439.44	435.16	435.06		0.00
1125	3,635,629.81	11,609,289.23	437.70	437.58	437.58	437.03	436.28	436.05	435.71	435.61	440.56	440.29	439.69	-0.87
1126	3,635,729.92	11,609,297.95	441.94	441.94	441.61	441.61	441.00	440.89	440.16	439.84	443.86	443.71	443.17	-0.69

TABLE 8
SUMMARY OF LANDFILL SETTLEMENT DATA
Project XL
Maplewood Recycling and Waste Disposal Facility
Amelia County, Virginia

Point No.	Northing	Easting	Elev 8/2/02	Elev 10/24/02	Elev 3/10/03	Elev 6/9/03	Elev 1/12/04	Elev 3/18/04	Elev 1/3/05	Elev 4/21/05	Elev 10/17/05	Elev 12/28/05	Elev 7/13/06	Difference in grade 7/13/2006 to 10/17/2005
Test Area														
1009	3,635,841.19	11,610,336.14	489.94	489.75	489.19	488.98	487.73	487.22	484.60	483.98	483.14	482.97	482.48	-0.66
1010	3,635,939.49	11,610,354.55	489.88	489.60	488.93	488.87	487.53	487.15	485.84	485.20	487.08	483.67	482.61	-4.47
1011	3,636,037.73	11,610,372.92	490.38	490.18	489.75	489.32	488.33	488.21	487.14	486.61	485.49	485.18	484.04	-1.45
1012	3,636,135.89	11,610,391.31	490.32	490.16	490.16	489.57	488.69	488.45	487.91	487.61	487.22	487.08		0.00
1013	3,636,154.20	11,610,293.02	486.99	486.87	486.64	486.28	485.82	485.58	485.01	484.73	484.36	484.20	483.79	-0.57
1014	3,636,056.01	11,610,274.63	487.20	487.11	486.87	486.04	486.51	486.23	485.19	484.69	484.10	483.86	483.23	-0.87
1015	3,635,957.68	11,610,256.23	486.71	486.52	486.27	485.94	485.81	485.46	484.04	483.43	482.54	482.21	481.54	-1.00
1016	3,635,859.38	11,610,237.82	485.21	484.90	484.28	484.28	483.09	482.90	481.98	481.64	481.05	480.91	480.44	-0.61
1017	3,635,761.00	11,610,219.44	486.48	486.20	485.55	485.55	484.26	483.91	482.94	482.75	482.27	482.23	481.81	-0.46
1031	3,635,779.51	11,610,121.17	481.41	481.18	480.61	480.31	478.44	478.24	477.37	477.01	476.22	476.94	476.51	0.29
1032	3,635,877.83	11,610,139.57	481.09	480.95	480.56	480.56	480.05	479.87	479.23	478.93	477.88	478.60	478.32	0.44
1033	3,635,976.12	11,610,157.96	482.03	482.03	481.81	481.50	481.27	481.12	480.35	480.06	479.04	479.25	478.99	-0.05
1034	3,636,074.38	11,610,176.37	482.34	482.28	482.05	482.05	481.48	481.20	480.16	479.73	479.49	479.74	479.41	-0.08
1035	3,636,172.64	11,610,194.76	477.76	477.64	477.11	476.83	476.99	476.88	476.31	475.98	475.28	475.35	474.82	-0.46
1036	3,636,190.94	11,610,096.48	473.03	472.87	472.80	472.27	472.24	471.97	471.43	471.12	470.78	470.76	470.43	-0.35
1037	3,636,092.58	11,610,078.09	476.70	476.52	476.41	476.41	476.45	476.14	475.52	475.10	474.59	475.32	474.90	0.31
1038	3,635,994.28	11,610,059.72	475.69	475.55	475.35	475.33	474.49	474.39	473.63	473.28	472.77	474.03	473.23	0.46
1039	3,635,896.02	11,610,041.31	476.49	476.49	476.09	475.47	475.26	475.22	474.24	473.95	473.49	473.67	473.26	-0.23
1040	3,635,797.72	11,610,022.91	475.24	475.24	474.94	474.65	473.81	473.63	472.96	472.43	472.02	472.07	471.35	-0.67
1057	3,635,816.15	11,609,924.54	468.79	468.65	468.58	468.40	467.89	467.62	466.89	466.52	466.09	466.12	465.56	-0.53
1058	3,635,914.40	11,609,942.95	470.40	470.33	470.08	470.08	468.84	468.68	468.21	468.07	470.16	468.06	467.92	-2.24
1059	3,636,012.73	11,609,961.33	471.67	471.67	471.59	471.56	470.96	470.85	470.43	470.21	468.93	470.24	469.74	0.81
1060	3,636,111.00	11,609,979.74	473.09	473.02	472.97	472.51	472.25	472.13	471.76	471.60	471.33	471.64	471.36	0.03
1061	3,636,209.35	11,609,998.10	469.98	469.84	469.74	468.83	469.27	469.05	468.55	468.34	467.96	467.86	467.44	-0.52
1062	3,636,227.79	11,609,899.79	466.12	466.11	465.87	465.32	465.12	464.98	464.36	464.05	463.81	463.80	463.46	-0.35
1063	3,636,129.59	11,609,881.36	468.41	468.33	468.13	468.13	467.87	467.72	467.28	467.20	466.59	467.21	466.65	0.06
1064	3,636,031.25	11,609,862.99	469.26	469.21	469.11	468.61	468.76	468.64	468.35	468.35	467.87	468.55	468.33	0.46
1065	3,635,932.97	11,609,844.58	466.66	466.63	466.42	466.24	466.13	465.91	465.38	465.18	464.54	464.59	464.45	-0.09
1066	3,635,834.57	11,609,826.23	463.00	463.00	463.00	462.65	463.09	462.91	461.87	461.65	461.25	461.38	461.08	-0.17
1082	3,635,754.73	11,609,709.37	458.29	458.25	457.83	457.83	458.12	457.66	457.13	456.86	461.89	461.69	461.10	-0.79
1083	3,635,853.02	11,609,727.79	459.15	459.05	458.79	458.79	458.48	458.48	457.95	457.63	457.52	457.56	457.31	-0.21
1084	3,635,951.27	11,609,746.21	463.12	463.12	462.82	462.76	462.43	462.76	462.09	462.00	461.71	461.87	461.59	-0.12
1085	3,636,049.55	11,609,764.61	464.37	464.35	464.35	463.92	463.90	463.70	463.18	462.98	462.52	462.91	462.42	-0.10
1086	3,636,147.94	11,609,782.97	463.55	463.49	463.43	463.43	463.16	463.04	462.68	462.56	462.42	462.44	462.08	-0.34
1087	3,636,246.13	11,609,801.40	463.11	463.11	462.86	462.86	462.37	462.37	461.84	461.68	461.39	461.47	461.21	-0.18
1088	3,636,264.49	11,609,703.13	462.28	462.28	462.11	461.42	462.00	461.96	461.77	461.70	461.51	461.64	461.55	0.04
1089	3,636,166.21	11,609,684.72	461.07	461.07	460.63	460.58	460.72	460.54	460.15	459.90	459.43	459.65	459.27	-0.16
1090	3,636,067.97	11,609,666.29	460.16	460.16	459.60	459.59	457.90	457.53	456.81	456.58	456.02	456.08	455.71	-0.31
1091	3,635,969.64	11,609,647.92	458.71	458.71	458.57	458.44	457.09	456.82	455.88	455.53	455.00	454.87	454.36	-0.64
1092	3,635,871.35	11,609,629.52	455.39	455.32	455.23	454.72	454.80	454.87	454.28	454.05	454.07	454.08	453.75	-0.32
1093	3,635,773.00	11,609,611.20	453.10	453.01	452.57	452.33	451.80	456.62	451.92	451.74	457.50	457.40	456.76	-0.74
1109	3,635,791.40	11,609,512.91	447.00	446.88	446.80	446.80	447.18	447.63	446.61	446.31	451.95	451.95	451.32	-0.63
1110	3,635,889.74	11,609,531.28	449.69	449.63	449.40	449.40	450.01	450.14	449.57	449.33	450.14	450.45	450.08	-0.06
1111	3,635,988.07	11,609,549.63	452.44	452.44	452.44	452.44	451.80	451.59	450.98	450.62	450.23	450.09	449.51	-0.72
1112	3,636,086.37	11,609,568.01	455.21	455.21	452.44	452.44	454.77	454.54	453.91	453.61	453.14	453.09	452.81	-0.33
1113	3,636,184.68	11,609,586.40	455.94	455.94	455.90	455.50	455.41	455.10	454.19	453.83	453.34	453.23	452.74	-0.60
1114	3,636,282.85	11,609,604.89	457.94	457.94	457.70	456.55	457.66	457.59	457.37	457.26	457.11	457.22	457.09	-0.02
1115	3,636,301.28	11,609,506.56	452.17	452.17	452.05	450.28	452.12	451.90	451.79	451.73	451.65	451.68	451.59	-0.06
1116	3,636,202.99	11,609,488.15	450.20	450.04	449.94	449.94	449.60	449.58	449.27	448.87	449.01	448.64	448.37	-0.64
1117	3,636,104.71	11,609,469.78	449.09	449.09	448.97	448.97	448.46	448.27	447.87	447.62	447.20	447.40	447.12	-0.08
1118	3,636,006.39	11,609,451.41	448.42	448.42	448.09	448.09	448.21	448.12	447.84	447.81	447.62	447.66	447.48	-0.14
1119	3,635,908.14	11,609,432.94	447.08	447.08	446.77	446.67	446.57	446.37	445.95	445.76	445.13	445.02	444.52	-0.61
1120	3,635,809.87	11,609,414.54	442.72	442.72	442.56	442.48	443.35	443.15	442.25	442.03	447.16	447.07	446.55	-0.61
1127	3,635,828.22	11,609,316.33	442.36	442.19	442.00	442.00	441.61	441.40	440.98	440.74	440.63	440.64	440.94	0.31
1128	3,635,926.52	11,609,334.68	443.66	443.66	443.53	441.95	442.91	442.74	442.26	442.04	441.26	441.27	441.16	-0.10
1129	3,636,024.81	11,609,353.11	446.31	446.29	446.25	443.41	445.96	445.87	445.66	445.52	445.32	445.46	445.24	-0.08
1130	3,636,123.13	11,609,371.52	446.79	446.79	446.76	446.29	446.59	446.31	445.83	445.60	445.29	445.13	444.71	-0.58
1131	3,636,221.45	11,609,389.88	446.82	446.67	446.62	446.62	446.40							0.00
1132	3,636,319.64	11,609,408.34	446.62	446.62	446.60	446.57	446.27	446.22	445.91	445.73	445.40	445.36	444.89	-0.51
1133	3,636,337.98	11,609,310.06	443.94	443.93	443.75	444.59	443.83	443.68	443.70	443.58	443.57	443.63	443.48	-0.09
1134	3,636,239.72	11,609,291.66	447.32	447.32	447.22	442.16	447.14	447.11	446.98	446.93	446.80	446.80	446.71	-0.09
1135	3,636,141.46	11,609,273.23	447.30	447.30	447.20	446.83	447.35	447.12	447.01	446.91	446.76	446.73	446.62	-0.14
1136	3,636,043.11	11,609,254.88	445.01	445.01	445.00	445.95	444.91	444.72	444.60	444.44	444.36	444.43		0.00

TABLE 9
RAINFALL DATA SUMMARY
Project XL
Maplewood Recycling and Waste Disposal Facility
Amelia County, Virginia

Month	Average Precipitation [1]	2006 Precipitation [2]	Departure from Normal
January	3.24	2.89	-0.35
February	3.16	1.47	-1.69
March	3.61	0.20	-3.41
April	2.96	2.18	-0.78
May	3.84	3.24	-0.60
June	3.62	7.85	4.23
July	4.67	4.59	-0.08
August	4.18	5.99	1.81
September	3.98	9.52	5.54
October	3.6	6.12	2.52
November	3.06	6.67	3.61
December	3.12	1.42	-1.70
Total	43.04	52.14	9.10

Notes:
(1) Average precipitation is based on historical average for 37 degrees 30 minutes north latitude and 77 degrees 20 minutes west longitude.
(2) The 2006 totals for precipitation are based on data collected at 37 degrees 30 minutes north latitude and 77 degrees 20 minutes west longitude.

TABLE 10
SUMMARY OF WASTE CHARACTERIZATION DATA
Project XL
Maplewood Recycling and Waste Disposal Facility
Amelia County, Virginia

2001 Test Results

	Sample Date	Location	Depth (ft)	Moisture (%)	VS (%)	Cellulose (%)	Lignin (%)	Cell/Lig Ratio	pH (Field)	BMP (mL/g)
Control Area	8/7/2001	Control-1	0-10	31.57	46.36	28.13	22.1	1.27	5.5	73.03
					48.94	26.62	22.2	1.20		71.98
					45.40					69.86
	8/7/2001	Control-1	10-20	40.72	57.93	30.31	21.7	1.40	5.5	69.08
					50.16	27.86	21	1.33		76.15
					57.92					76.44
	8/7/2001	Control-1	20-30	33.16	55.12	38.72	15.50	2.50	5.8	71.56
					62.96	31.33	15.00	2.09		87.68
					35.33					85.19
	8/7/2001	Control-1	30-40	38.47	59.26	31.58	25.00	1.26	7.8	79.45
					52.16	29.16	28.90	1.01		82.94
					61.08					80.67
	8/7/2001	Control-2	0-10	34.72	50.13	27.79	16.60	1.67	5.8	70.58
					53.26	35.11	16.90	2.08		76.51
					47.55					77.80
	8/7/2001	Control-2	10-20	40.05	45.61	30.19	20.40	1.48	5.5	68.75
					46.31	36.68	18.10	2.03		75.78
					45.96					75.34
	8/7/2001	Control-2	20-30	41.83	47.98	30.42	19.10	1.59	6.7	78.75
					48.18	30.50	18.30	1.67		76.23
					48.64					78.51
	8/7/2001	Control-2	30-40	52.70	73.51	35.62	24.80	1.44	8.2	98.48
					75.16	36.63	25.70	1.43		101.18
					75.05					105.73
Test Area	5/11/2001	Bio 1	0-10	42.56	76.57	-	31.70	-	5.7	83.18
					75.24	29.50	28.70	1.03		117.79
					75.86					175.70
	5/11/2001	Bio 1	10-20	39.80	62.15	25.01	19.50	1.28	7.7	69.46
					85.41 *	22.56	19.30	1.17		106.17
					61.47					65.85
	5/11/2001	Bio 1	20-30	33.62	47.83	19.00	20.40	0.93	5.3	134.09
					53.86	23.00	20.40	1.13		84.04
					51.18					121.08
	5/11/2001	Bio 1	30-40	37.20	71.67	33.77	28.80	1.17	5.6	90.47
					76.08	25.30	27.10	0.93		118.13
					71.20					104.92
	5/10/2001	Bio 2	0-10	28.75	78.03	32.87	24.40	1.35	5.8	115.60
					76.90	36.58	23.90	1.53		93.32
					78.52					112.01
	5/10/2001	Bio 2	10-20	51.20	61.91	22.74	22.50	1.01	8.4	85.83
					67.41	23.07	22.10	1.04		134.03
					62.31					174.36
	5/10/2001	Bio 2	20-30	40.56	67.96	26.36	22.40	1.18	8.2	78.18
					68.32	27.10	24.60	1.10		86.14
					70.42					50.74
	5/10/2001	Bio 2	30-40	27.80	69.90	34.22	22.90	1.49	7.5	38.61
					71.24	29.04	25.00	1.16		43.11
					68.27					31.50
	5/10/2001	Bio 3	0-10	39.86	78.94	36.38	25.20	1.44	5.3	19.12
					49.19 *	32.61	27.60	1.18		18.72
					79.46					38.36
	5/10/2001	Bio 3	10-20	38.59	62.23	36.15	17.60	2.05	8.5	98.93
					60.58	37.58	16.10	2.33		51.21
					63.07					119.14
	5/10/2001	Bio 3	20-30	38.46	81.44	39.96	24.70	1.62	5.5	101.60
					78.17	39.48	23.70	1.67		95.59
					80.78					40.51
	5/10/2001	Bio 3	30-40	32.80	74.58	39.80	18.40	2.16	6.2	109.92
					75.85	41.00	18.70	2.19		104.25
					73.58					189.83

TABLE 10
SUMMARY OF WASTE CHARACTERIZATION DATA - continued
Project XL
Maplewood Recycling and Waste Disposal Facility
Amelia County, Virginia

January 2004 Test Results

	Sample Date	Location	Depth (ft)	Moisture (%)	VS (%)	Cellulose (%)	Lignin (%)	Cell/Lig Ratio	pH (Field)	BMP (mL/g)
Control Area	1/11/2004	Control 1	0-10	36.86	67.58	34.97	22.23	1.57	6.23	
	1/11/2004	Control 1	10-20	34.33	74.11	30.06	27.13	1.11	6.21	
	1/11/2004	Control 1	20-30	43.85	19.27	1.48	9.12	0.16	8.12	
	1/11/2004	Control 1	30-40	42.70	36.17	7.05	15.26	0.46	7.30	
	1/11/2004	Control 2	0-10	52.55	51.08	22.36	28.11	0.80	6.62	
	1/11/2004	Control 2	10-20	27.54	19.97	6.36	7.13	0.89	6.42	
	1/11/2004	Control 2	20-30	36.41	76.61	30.18	30.00	1.01	6.11	
	1/11/2004	Control 2	30-40	39.83	47.11	17.78	14.86	1.20	6.40	
Test Area	1/11/2004	Test 1	0-10	50.72	50.88	26.88	17.71	1.52	7.11	
	1/11/2004	Test 1	10-20	30.55	66.56	23.01	26.29	0.88	6.07	
	1/11/2004	Test 1	20-30	44.93	62.26	19.68	28.83	0.68	8.95	
	1/11/2004	Test 1	30-40	33.85	63.46	26.93	22.18	1.21	5.80	
	1/11/2004	Test 2	0-10	47.61	38.91	18.40	15.86	1.16	7.00	
	1/11/2004	Test 2	10-20	57.16	58.28	12.28	31.54	0.39	8.77	
	1/11/2004	Test 2	20-30	36.74	85.83	34.39	24.85	1.38	6.44	
	1/11/2004	Test 2	30-40	37.19	69.65	18.17	29.76	0.61	5.82	
	1/11/2004	Test 3	0-10	39.79	49.09	15.69	24.00	0.65	7.92	
	1/11/2004	Test 3	10-20	50.12	35.34	7.63	21.10	0.36	8.58	
	1/11/2004	Test 3	20-30	44.68	58.38	20.76	20.43	1.02	6.37	
	1/11/2004	Test 3	30-40	26.24	22.70	0.94	9.13	0.10	8.20	

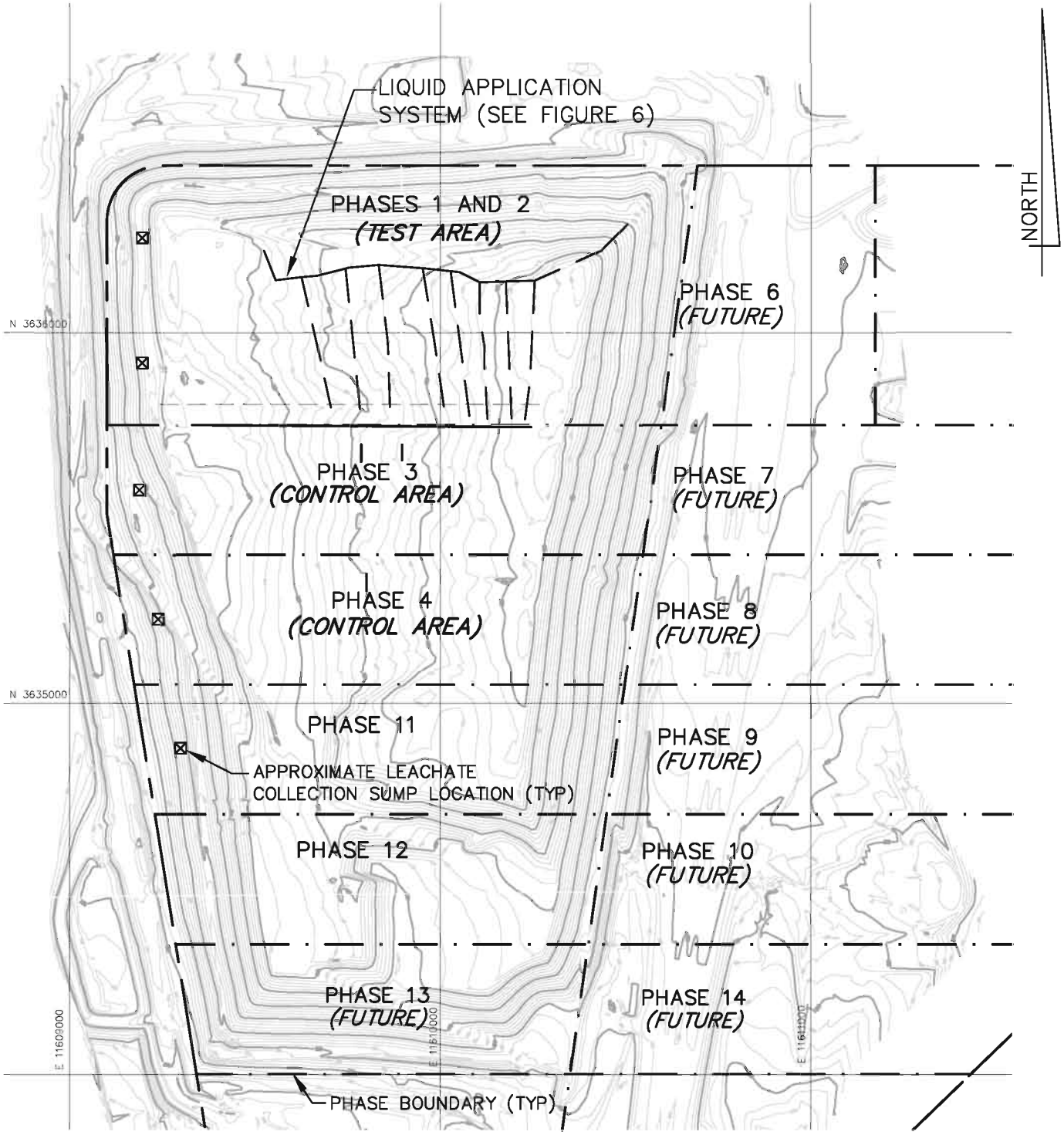
TABLE 10
SUMMARY OF WASTE CHARACTERIZATION DATA - continued
Project XL
Maplewood Recycling and Waste Disposal Facility
Amelia County, Virginia

November 2005 Test Results

	Sample Date	Location	Depth (ft)	Moisture (%)	VS (%)	Cellulose (%)	Lignin (%)	Cell/Lig Ratio	pH (Field)	BMP (mL/g)
Control Area	11/14/2005	Control 1	0-10	32.59	63.90	22.76	20.20	1.13	6.08	
	11/14/2005	Control 1	10-20	41.24	54.31	11.55	29.25	0.39	7.35	
	11/14/2005	Control 1	20-30	42.18	17.35	2.59	6.23	0.42	7.14	
Test Area	11/14/2005	Test 1	0-10	46.44	54.89	18.29	18.32	1.00	5.63	
	11/14/2005	Test 1	10-20	47.46	23.68	6.41	9.32	0.69	7.43	
	11/14/2005	Test 1	20-30	57.39	53.19	18.74	21.52	0.87	6.78	
	11/14/2005	Test 1	30-38	36.47	32.36	7.02	10.26	0.68	6.70	
	11/14/2005	Test 2	0-10	53.97	57.24	21.44	18.70	1.15	7.87	
	11/14/2005	Test 2	10-20	78.49	47.90	11.20	23.46	0.48	7.54	
	11/14/2005	Test 2	20-25	57.96	30.62	6.11	14.52	0.42	7.98	
	11/14/2005	Test 3	0-10	45.33	19.77	7.07	13.51	0.52	7.70	
	11/14/2005	Test 3	10-20	54.60	35.80	10.23	12.59	0.81	7.93	
	11/14/2005	Test 3	20-30	54.26	36.51	6.85	20.56	0.33	8.28	
	11/14/2005	Test 3	30-37	62.23	34.64	5.95	20.32	0.29	7.68	

FIGURES

SITE PLAN – EXISTING
MAPLEWOOD RECYCLING AND WASTE DISPOSAL FACILITY



NOTES:

1. SURVEY BY FLORA SURVEYING ASSOCIATES, INC., DATED JANUARY 2005.
2. PHASES 3 AND 4 ARE CONTROL CELLS.

400 200 0 400

SCALE: 1" = 400'

GeoSyntec Consultants

COLUMBIA, MARYLAND

FIGURE NO.	1
PROJECT NO.	ME0466
DOCUMENT NO.	
FILE NO.	0466F002

FIGURE 2
LIQUID APPLIED TO LANDFILL - CUMULATIVE
Project XL
Maplewood Recycling and Waste Disposal Facility
Amelia County, Virginia

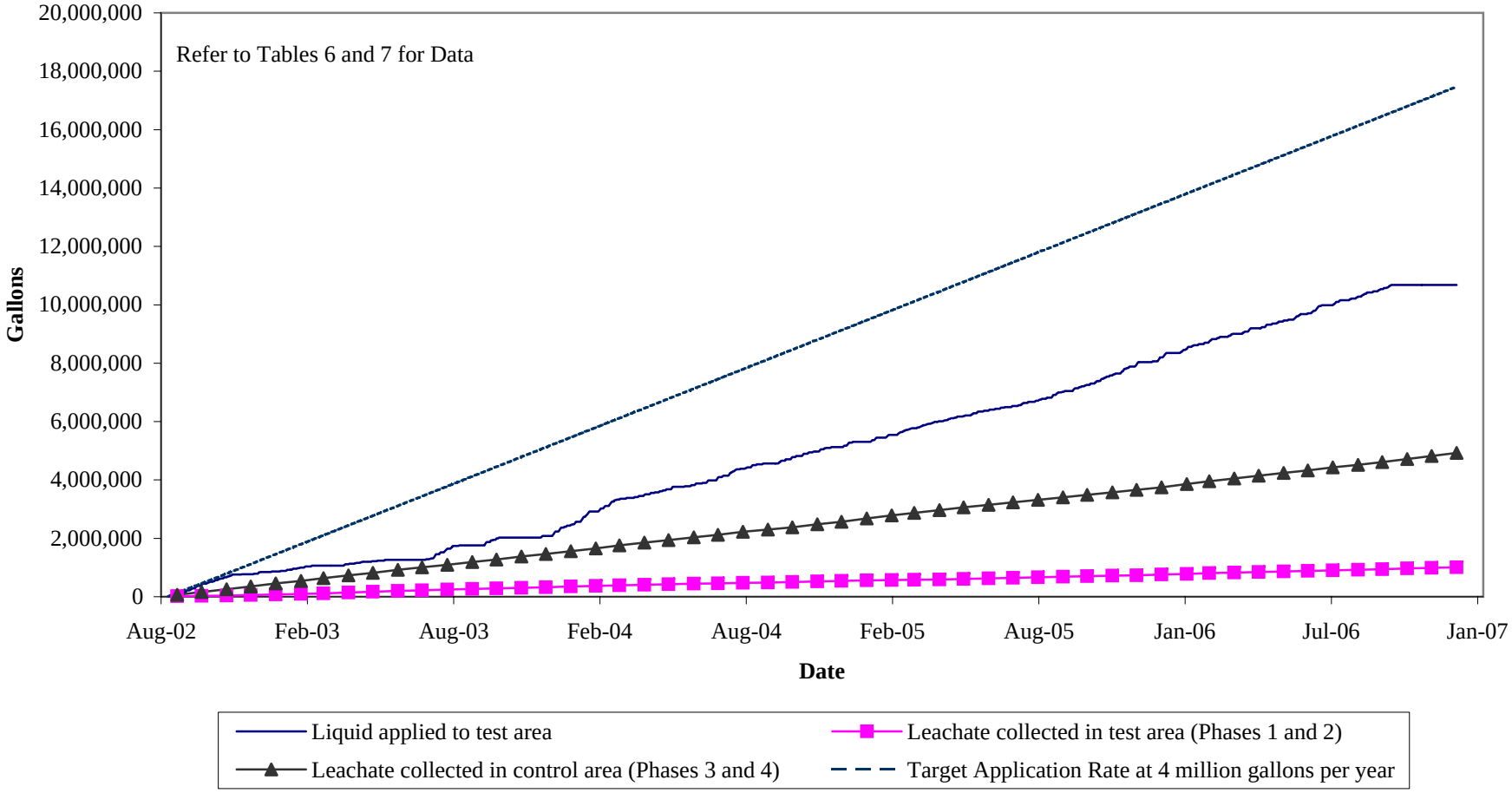


FIGURE 3
BOD/COD RATIO
Project XL
Maplewood Recycling and Waste Disposal Facility
Amelia County, Virginia

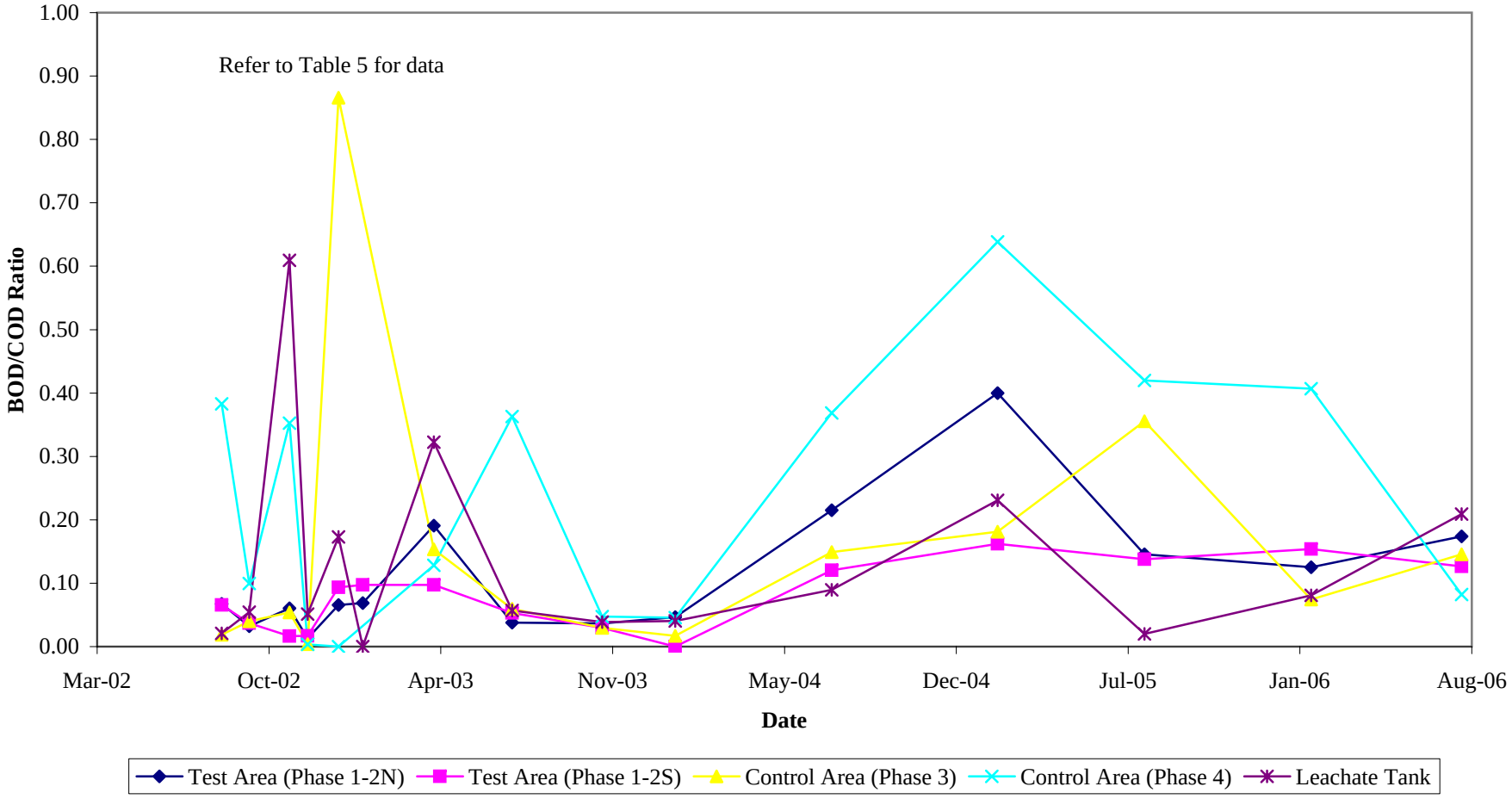


FIGURE 4
COD/TOC RATIO
Project XL
Maplewood Recycling and Waste Disposal Facility
Amelia County, Virginia

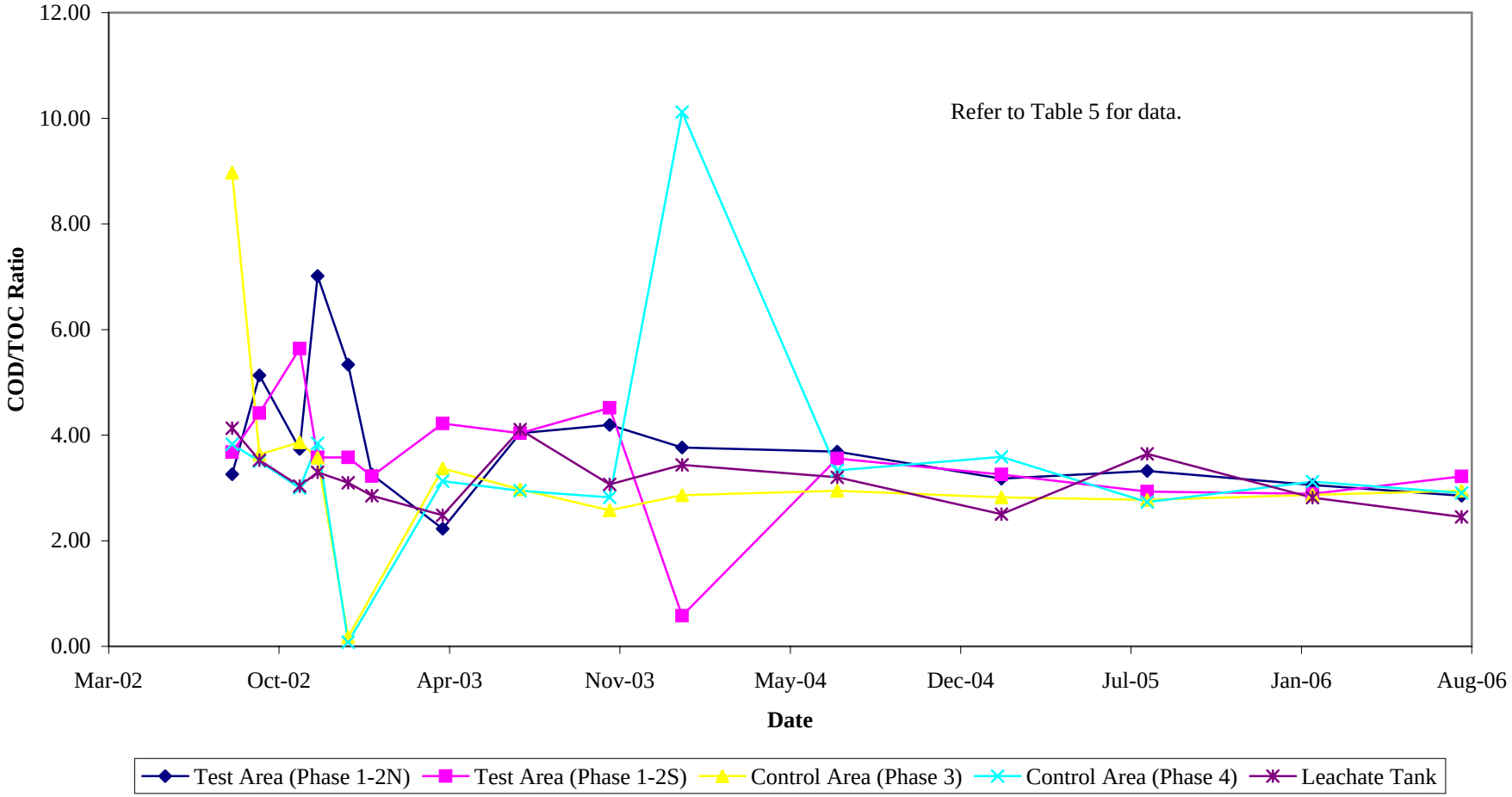


FIGURE 5
CHLORIDE CONCENTRATION
Project XL
Maplewood Recycling and Waste Disposal Facility
Amelia County, Virginia

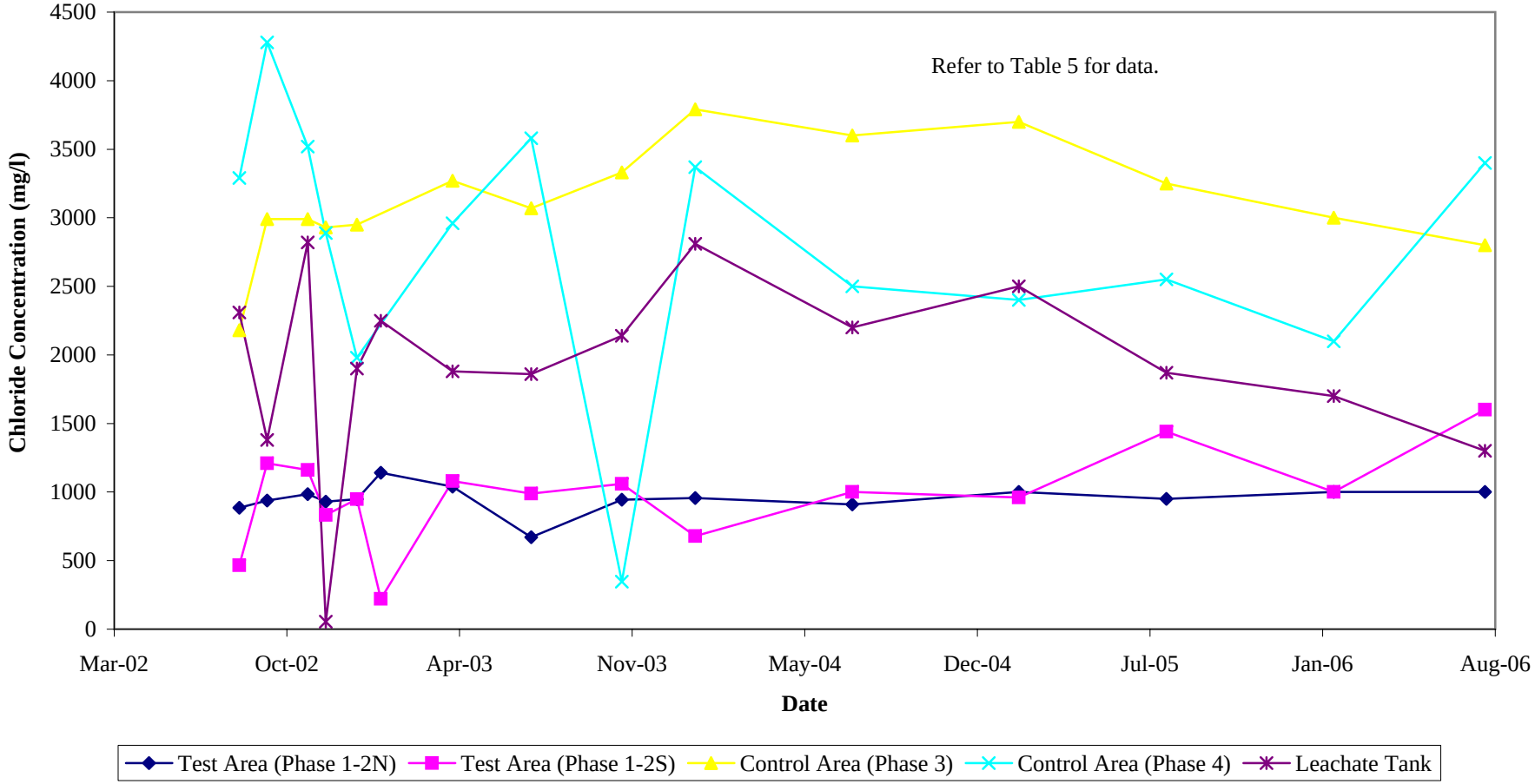


FIGURE 6
NITRATE NITROGEN CONCENTRATION
Project XL
Maplewood Recycling and Waste Disposal Facility
Amelia County, Virginia

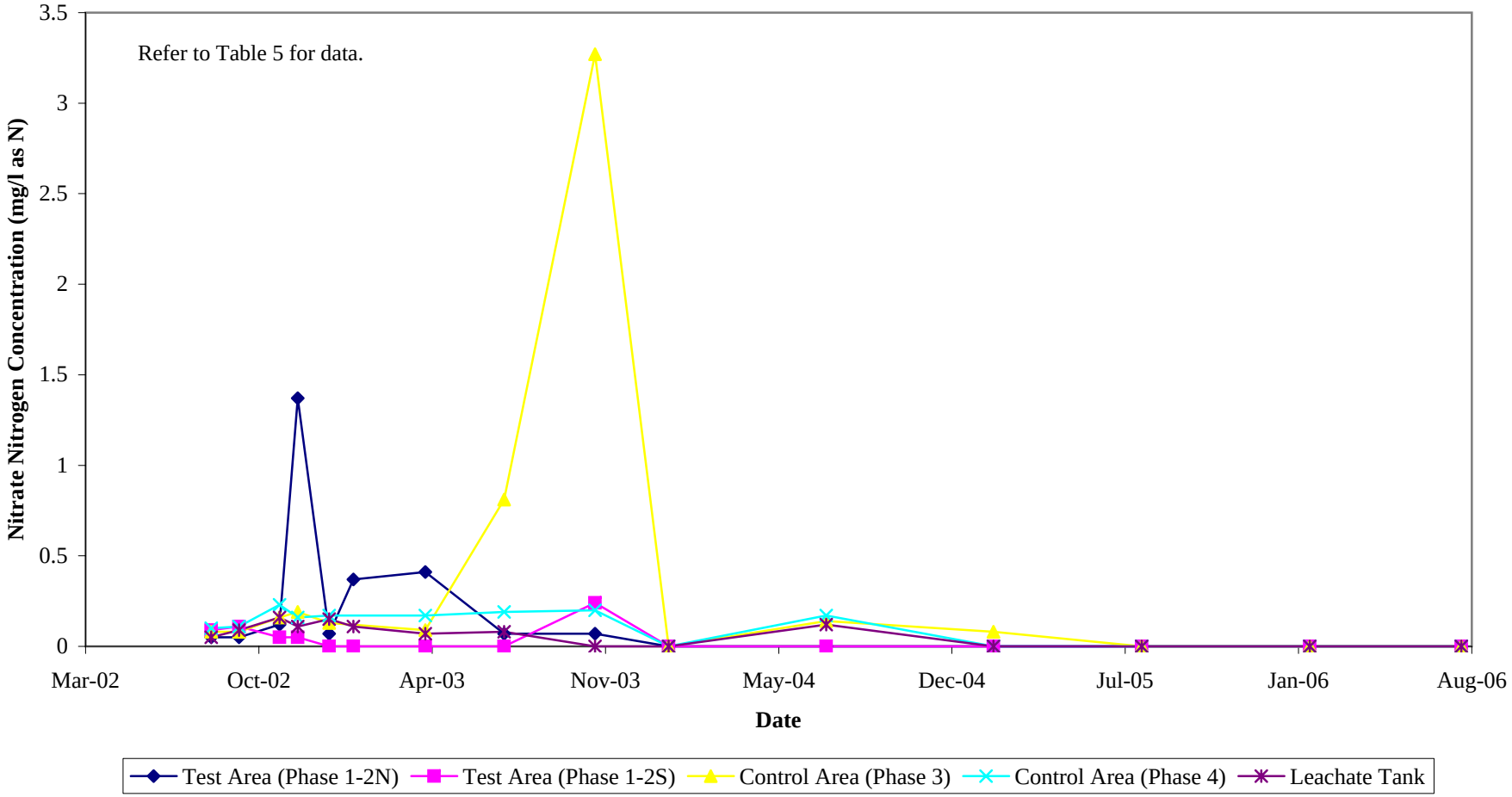


FIGURE 7
AMMONIA NITROGEN CONCENTRATION
Project XL
Maplewood Recycling and Waste Disposal Facility
Amelia County, Virginia

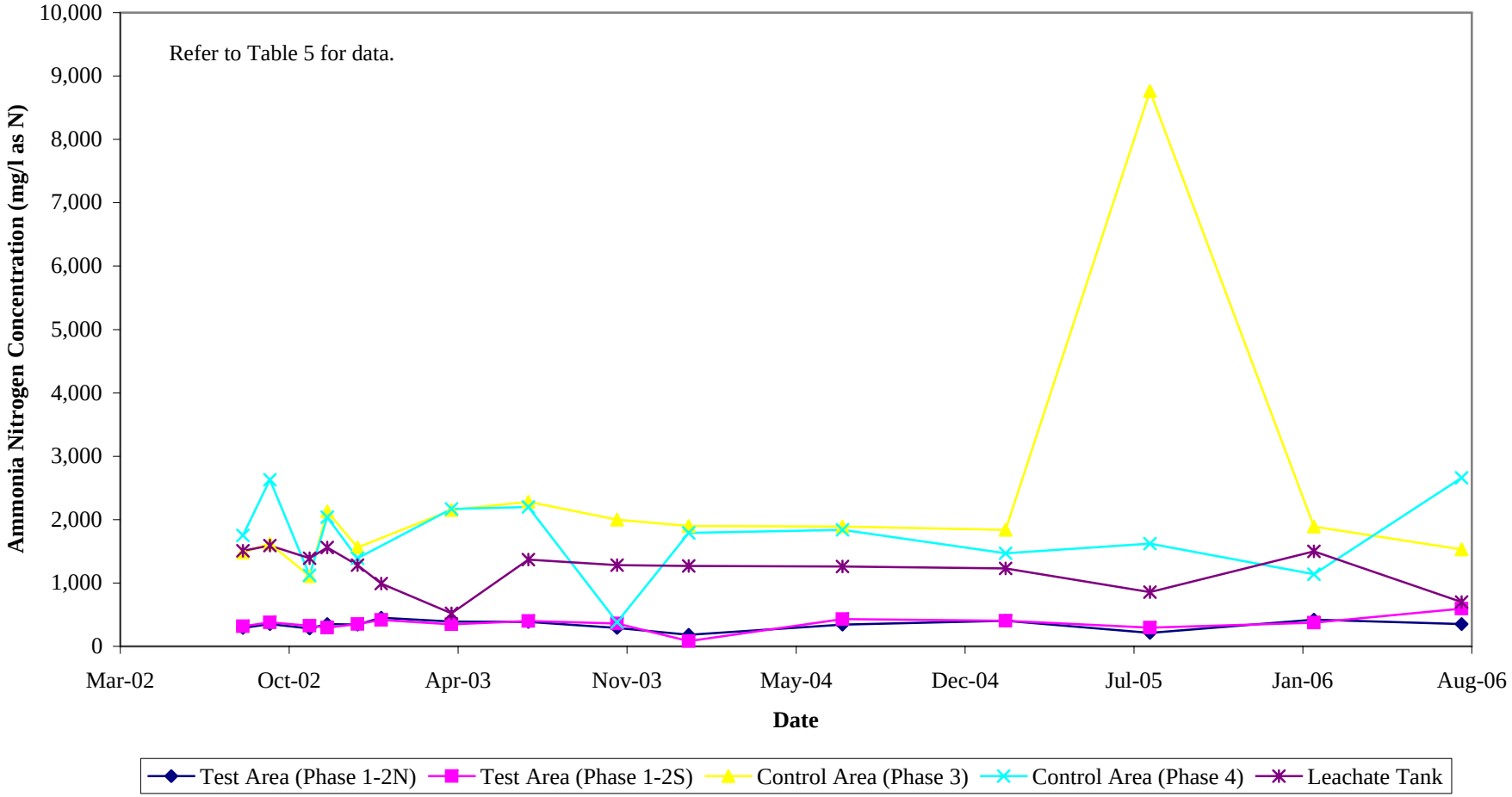


FIGURE 8
LANDFILL GAS QUANTITY DATA
Project XL
Maplewood Recycling and Waste Disposal Facility
Amelia County, Virginia

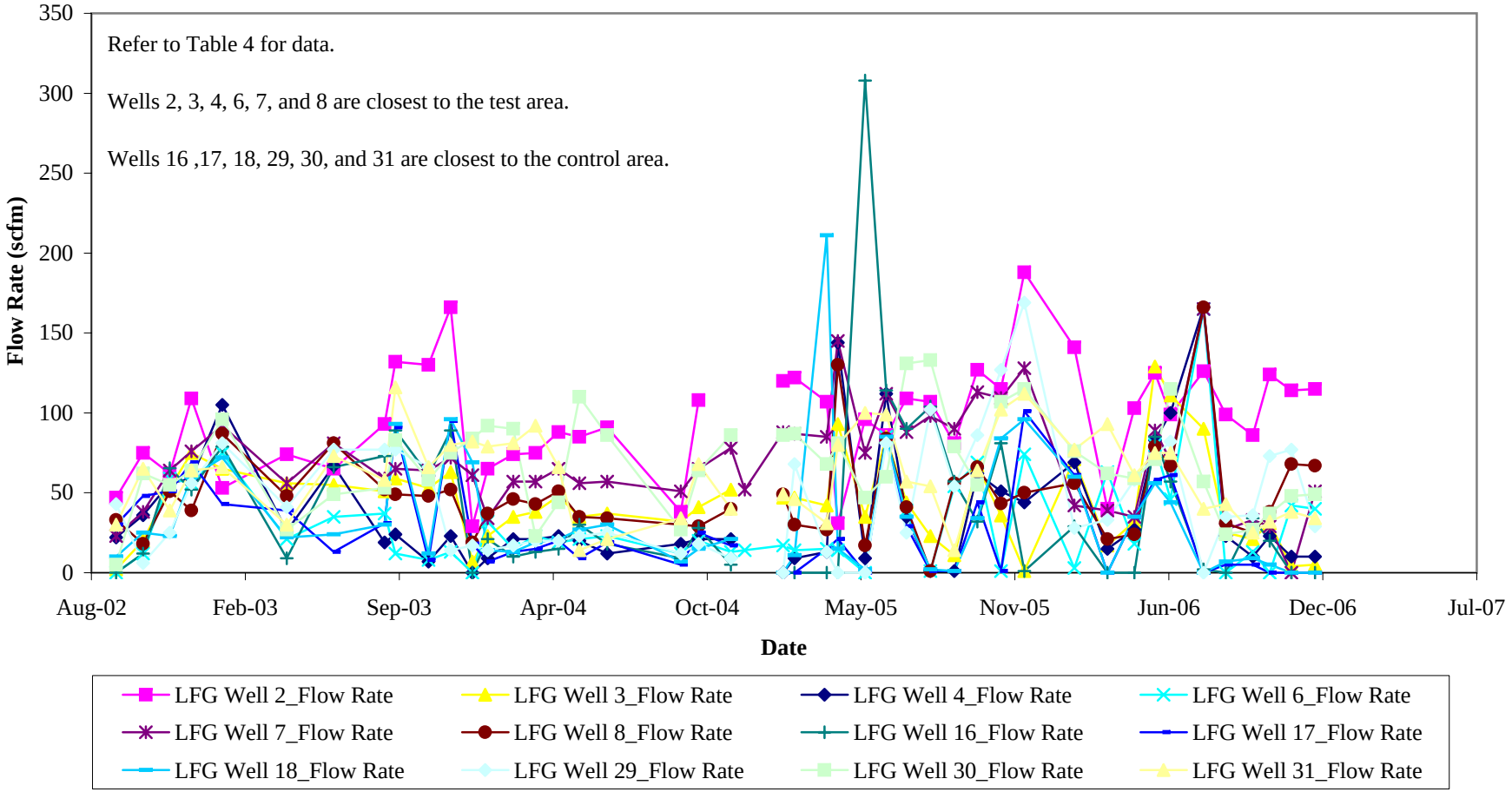


FIGURE 9
LANDFILL GAS QUALITY DATA - METHANE
Maplewood Recycling and Waste Disposal Facility
Amelia County, Virginia

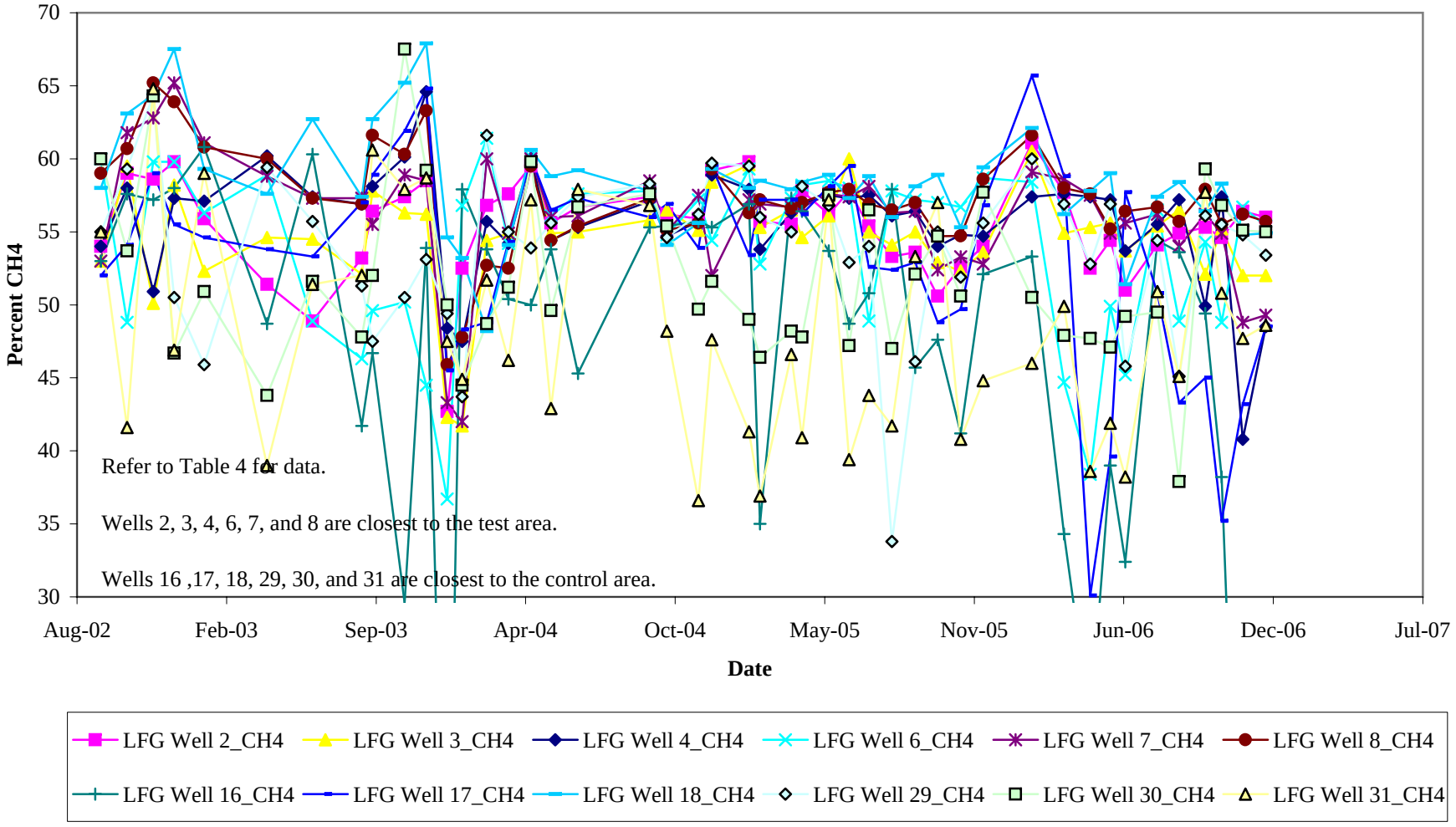
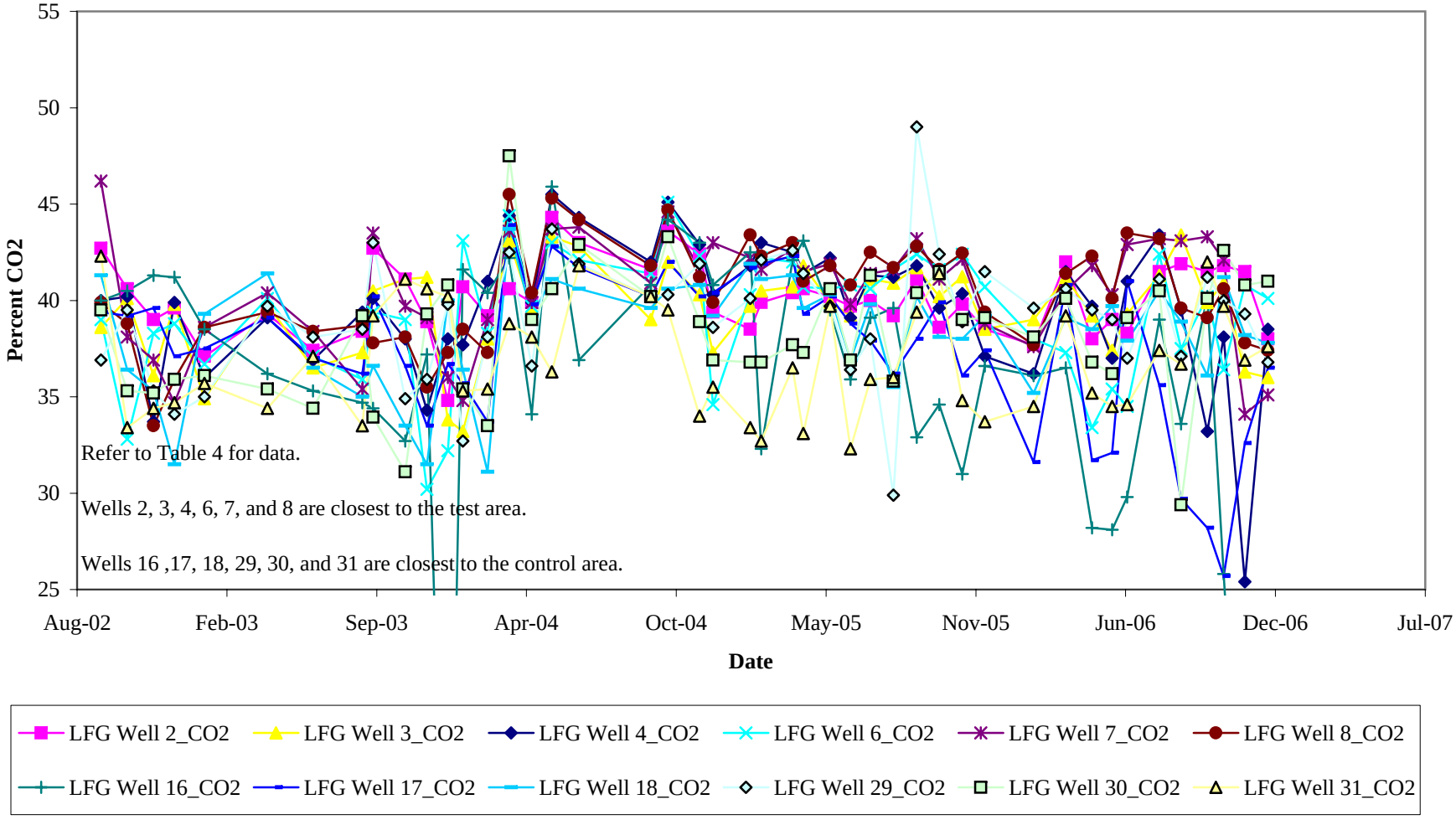
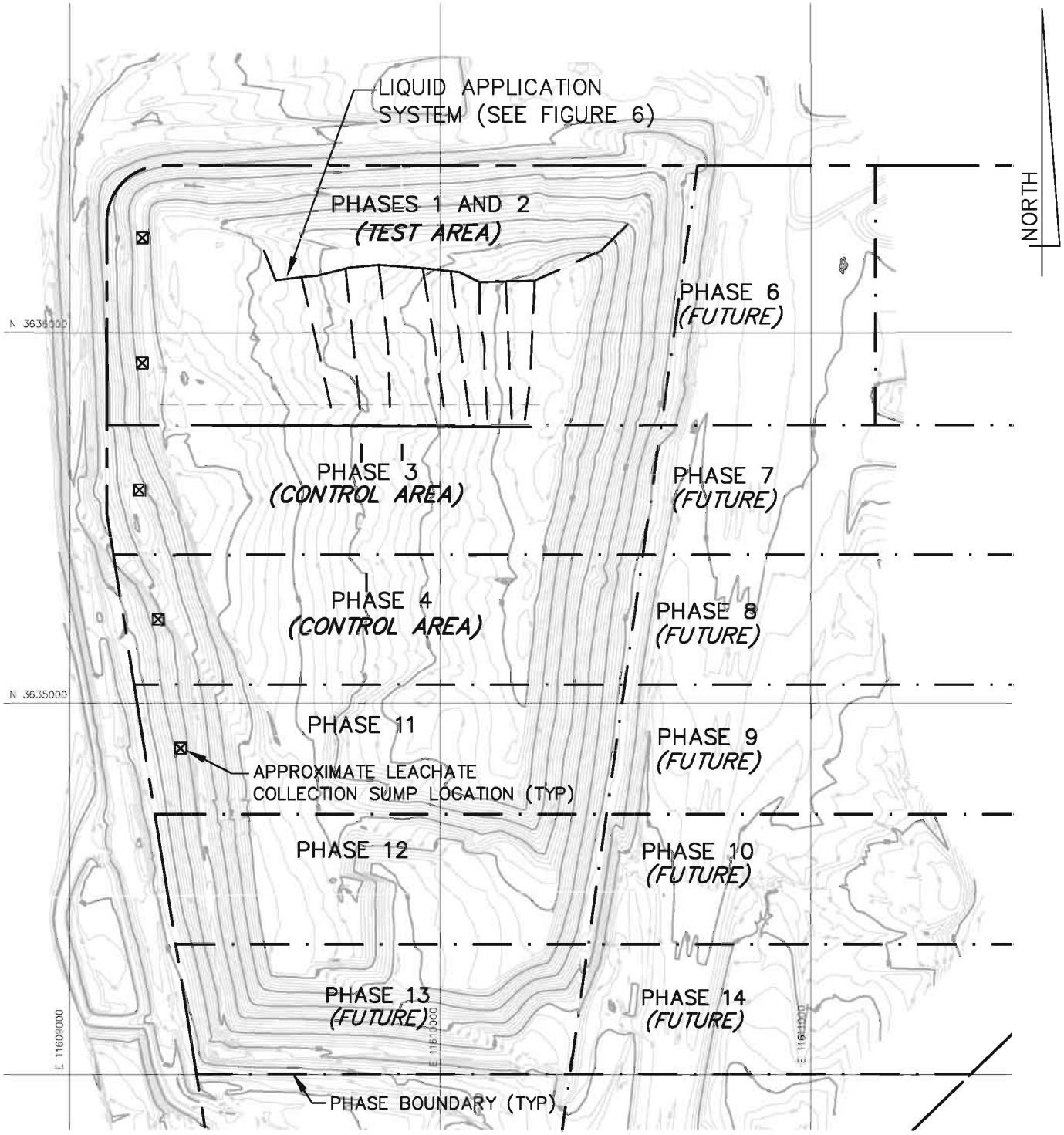


FIGURE 10
LANDFILL GAS QUALITY DATA - CARBON DIOXIDE
Maplewood Recycling and Waste Disposal Facility
Amelia County, Virginia



DRAWINGS

SITE PLAN – EXISTING
MAPLEWOOD RECYCLING AND WASTE DISPOSAL FACILITY



NOTES:

1. SURVEY BY FLORA SURVEYING ASSOCIATES, INC., DATED JANUARY 2005.
2. PHASES 3 AND 4 ARE CONTROL CELLS.

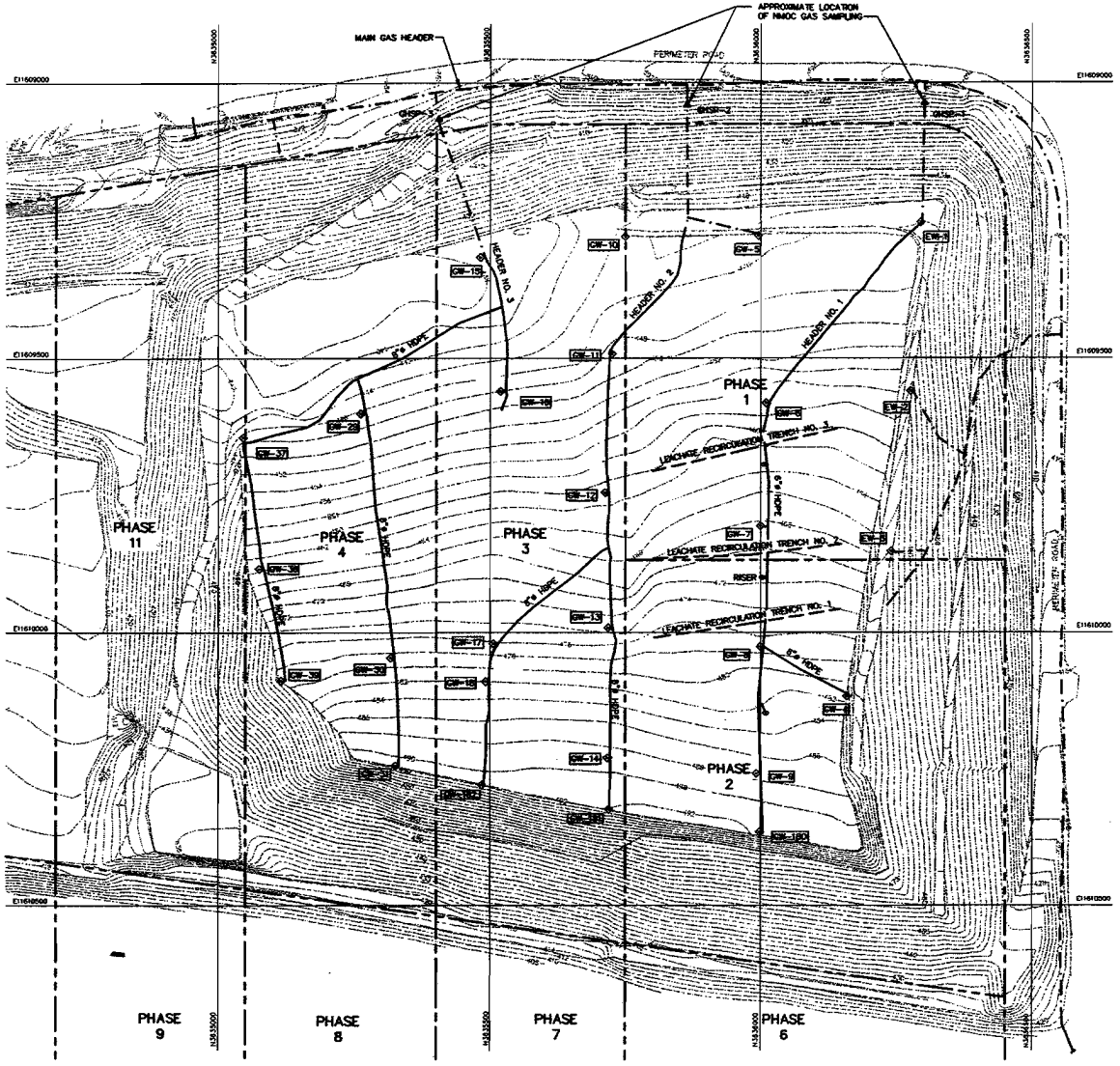
400 200 0 400

SCALE: 1" = 400'

GeoSyntec Consultants

COLUMBIA, MARYLAND

FIGURE NO.	1
PROJECT NO.	ME0466
DOCUMENT NO.	
FILE NO.	0466F002



NORTH

LEGEND

- PHASE BOUNDARY
- EXISTING GRADE CONTOUR (FEET, MSL)
- LEACHATE GAS COLLECTION HEADER
- LANDFILL GAS COLLECTION LATERAL
- LANDFILL GAS WELL
- RISER PIPE
- GHSP-1 GAS HEADER SAMPLING POINT

NOTES:

1. TOPOGRAPHIC INFORMATION IS FROM AN ELECTRONIC FILE BY FLORA SURVEYING ASSOCIATES, INC OF A SURVEY CONDUCTED ON 24 APRIL 2002.
1. LANDFILL GAS INFORMATION (WELLS, TRENCHES, PIPING, ETC) IS FROM AN ELECTRONIC FILE FROM FLORA SURVEYING ASSOCIATES, INC. OF A SURVEY CONDUCTED IN SEPTEMBER 2002.

100 50 0 100 200
SCALE: 1" = 100'

GeoSyntec Consultants
COLUMBIA, MARYLAND

REV.	DATE	DESCRIPTION	DR BY	APP BY

DATE: NOVEMBER 2002 | PROJECT NO. ME0275-01 | SCALE: 1" = 100'

DES BY	DTM	NOV 02
DRN BY	JDC	NOV 02
CHK BY	MFH	NOV 02
REV BY		
APP BY		

PROJECT: XL PROJECT MAPLEWOOD LANDFILL

SHEET TITLE: LANDFILL GAS MONITORING PLAN

SIGNATURE

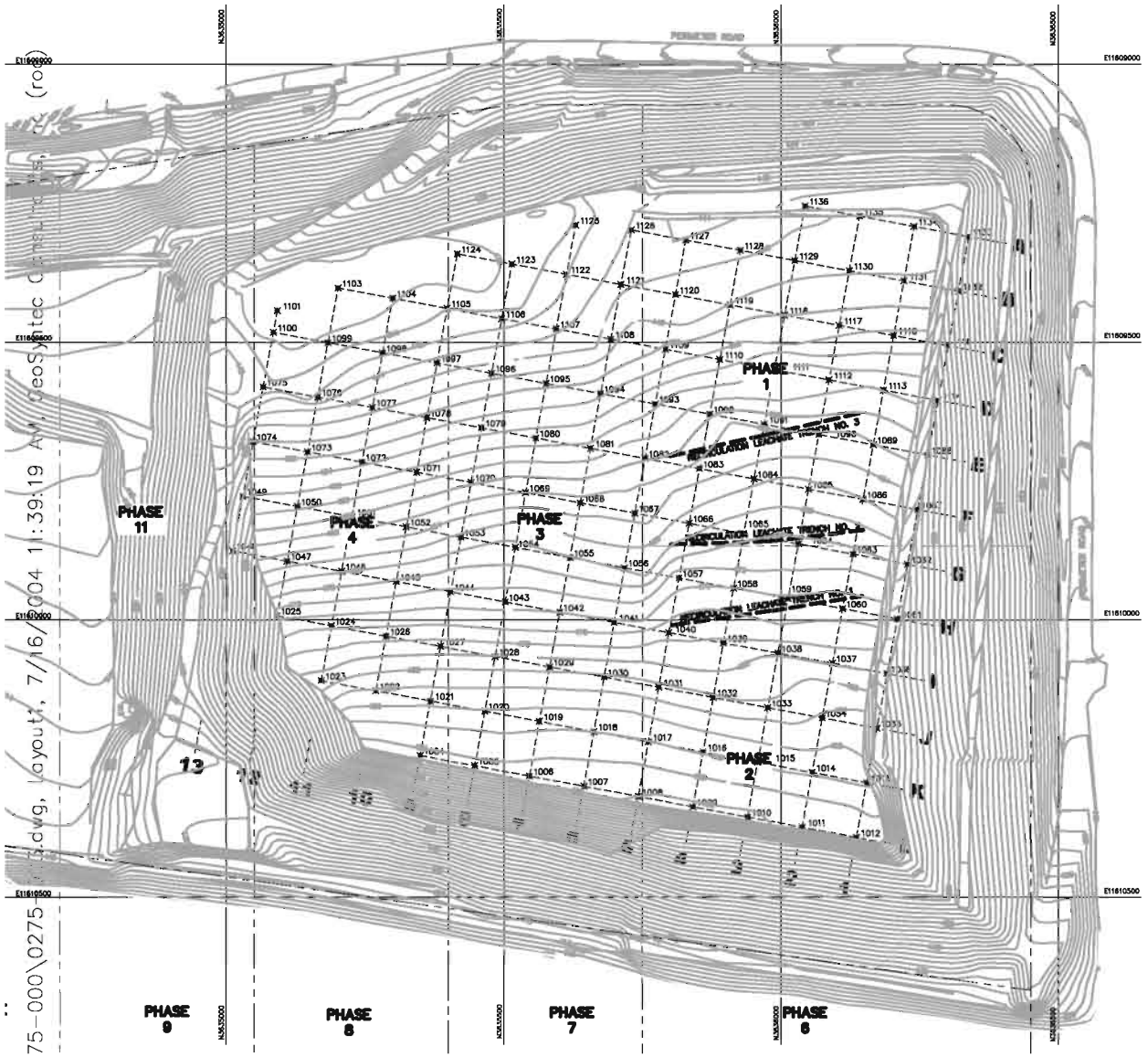
DATE

WASTE MANAGEMENT, INC.

FILE NO: 0275-002

DRAWING NO: 2 OF 4

P:\cadd\0275\0275-002.dwg Fri May 02 08:20:44 2003 GeoSyntec Consultants, MD (DTM)



NORTH

LEGEND

- PHASE BOUNDARY
- EXISTING GRADE CONTOUR (FEET, MSL)
- A — SETTLEMENT GRID
- x 1130 — SETTLEMENT GRID POINT NUMBER

SETTLEMENT POINT SCHEDULE

POINT NO.	ELEV. 8/2/02		POINT NO.	ELEV. 8/2/02	
1004	485.87		1070	457.70	
1005	485.51		1071	455.12	
1006	485.10		1072	451.48	
1007	480.08		1073	448.58	
1008	480.29		1074	448.55	
1009	480.94		1075	439.54	
1010	480.88		1076	440.47	
1011	490.36		1077	445.99	
1012	490.32		1078	448.91	
1013	486.99		1079	451.72	
1014	487.20		1080	452.56	
1015	486.71		1081	455.31	
1016	485.21		1082	458.29	
1017	486.48		1083	459.15	
1018	485.24		1084	463.12	
1019	484.57		1085	464.37	
1020	483.05		1086	463.55	
1021	482.28		1087	463.11	
1022	480.97		1088	462.28	
1023	477.72		1089	461.07	
1024	472.04		1090	460.18	
1025	466.72		1091	458.71	
1026	474.30		1092	455.39	
1027	475.71		1093	453.10	
1028	477.62		1094	450.59	
1029	478.07		1095	447.01	
1030	480.72		1096	445.83	
1031	481.41		1097	444.65	
1032	481.09		1098	440.86	
1033	482.03		1099	437.68	
1034	482.34		1100	435.45	
1035	477.76		1101	434.95	
1036	473.03		1103	434.51	
1037	476.70		1104	435.96	
1038	475.69		1105	438.53	
1039	476.49		1106	439.74	
1040	475.24		1107	440.55	
1041	472.92		1108	444.53	
1042	472.03		1109	447.00	
1043	471.02		1110	449.99	
1044	470.05		1111	452.44	
1045	468.07		1112	455.31	
1046	465.01		1113	455.94	
1047	461.57		1114	457.94	
1048	452.50		1115	452.17	
1049	452.53		1116	450.20	
1050	454.78		1117	449.09	
1051	457.93		1118	448.42	
1052	460.61		1119	447.06	
1053	463.32		1120	442.72	
1054	465.71		1121	443.54	
1055	466.06		1122	439.75	
1056	466.95		1123	436.73	
1057	466.79		1124	435.79	
1058	470.40		1125	437.70	
1059	471.67		1126	441.94	
1060	473.09		1127	442.38	
1061	468.98		1128	443.66	
1062	466.12		1129	448.31	
1063	466.41		1130	448.79	
1064	469.28		1131	446.82	
1065	466.66		1132	446.62	
1066	463.00		1133	443.94	
1067	463.21		1134	447.32	
1068	461.01		1135	447.30	
1069	460.16		1136	446.01	

NOTES:

1. TOPOGRAPHIC INFORMATION IS FROM AN ELECTRONIC FILE BY FLORA SURVEYING OF A SURVEY CONDUCTED ON 24 APRIL 2002.

100 50 0 100 200
SCALE: 1" = 100'

COLUMBIA, MARYLAND (410)381-4333

REV.	DATE	DESCRIPTION	DR BY	APP BY

DATE: NOVEMBER 2002 | PROJECT NO. MD276-1 | SCALE: 1" = 100'

DES BY	BTM	NOV 02
DRN BY	JDC	NOV 02
CHK BY	MFH	NOV 02
REV BY		
APP BY		

PROJECT: XL PROJECT
MAPLEWOOD LANDFILL

SHEET TITLE: SETTLEMENT MONITORING PLAN

SIGNATURE

DATE

WASTE MANAGEMENT, INC.

FILE NO: 0276-003

DRAWING NO: 3 OF 4