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14 March 2007

Mr. Larry Rose, Environmental Specialist
Division of Waste Management, Solid Waste Section
North Carolina Department of Environment and Natural Resources
401 Oberlin Road, Suite 150
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Received
MAR
Solid Waste Sect.

RE: June 2006 Water Quality Monitoring Report
City of Durham Closed Municipal Solid Waste Landfill
Durham, Durham County

WO# 12273.001.002

Dear Mr. Rose,

I was recently informed by Nancy Newell with the City of Durham, that you were missing the *Water Quality Monitoring Report, June 2006 Semiannual Event, Closed Durham City Landfill.* Enclosed is a copy of the report. This report includes analytical results of the North Carolina Appendix II list of organic and inorganic constituents for Assessment Monitoring constituents, statistical evaluation of the inorganic analytical data, and estimates of groundwater flow directions in the vicinity of the closed landfill.

If you have any questions regarding this report or any of the recommendations, please contact me at (919) 424-2222.

Sincerely,
WESTON SOLUTIONS, INC.

Kevin Eldridge

Kevin Eldridge, QEP
Raleigh Manager

Enclosure

cc: N. Newell/City of Durham

Received
MAR 2007
Solid Waste Section

WATER QUALITY MONITORING REPORT

JUNE 2006 SEMIANNUAL EVENT

CLOSED DURHAM CITY LANDFILL

Permit No. 32-01

Prepared for:

City of Durham

Department of Water Management

Durham, North Carolina

Prepared by:

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Raleigh, North Carolina

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September 2006

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1. INTRODUCTION

Weston Solutions, Inc. (WESTON) has prepared this report on behalf of the City of Durham Department of Water Management. This report presents the results of the June 2006 semiannual groundwater and surface water monitoring conducted at the City of Durham, North Carolina closed Municipal Solid Waste Landfill (MSWLF). The landfill is located in Durham County, northeast of downtown Durham, off East Club Boulevard. The property is located in the central North Carolina Piedmont, southwest of Falls Lake. WESTON assumed the landfill water quality monitoring project from previous consultant Malcolm Pirnie, Inc. (M-P) beginning with the June/July 1999 monitoring event.

Groundwater quality at the landfill has been monitored since 1989. Assessment Monitoring was conducted at the closed landfill from November 1996 (M-P, 1999) through June/July 1999 following detection of trace concentrations of benzene at one well in several separate samples. After the June/July 1999 monitoring event, the North Carolina Department of Environment and Natural Resources, Division of Waste Management, Solid Waste Section (NCSWS) granted approval for the MSWLF to return to Detection Monitoring status (NCSWS, Oct. 1999). Detection Monitoring was conducted at the site from October 1999 through December 2004. Based on the detection of volatile organic compounds (VOCs) in groundwater exceeding NC 2L standards for the second consecutive monitoring event, the MSWLF returned to Assessment Monitoring beginning with the June 2005 monitoring event. As required by the North Carolina Solid Waste Management Rules, Assessment Monitoring would include analysis of the constituents included in Appendix II of 40 CFR Part 258. 40 CFR Part 258 - "Appendix II List of Hazardous Inorganic and Organic Constituents."

2. METHODS AND PROCEDURES

The North Carolina Solid Waste Management Rules (Rules) 15A NCAC 13B.1630(b)(3) require MSWLF units to demonstrate compliance with groundwater monitoring requirements. Sampling, laboratory analysis, statistical analysis, and hydrogeological analysis are discussed below.

2.1 GROUNDWATER AND SURFACE WATER SAMPLING

WESTON personnel collected, preserved, and shipped the groundwater and surface water samples in general accordance with the site Water Quality Monitoring Plan (M-P, 1996) and North Carolina Department of Environment, Health, and Natural Resources; Division of Solid Waste Management, Solid Waste Section technical guidance (NCDSWM, 1995). The landfill groundwater monitoring network consists of one upgradient/background well (P-6) and seven downgradient/compliance wells (MW-2, MW-3, MW-4R, MW-5, MW-6R, MW-7R, and MW-8). The surface water monitoring network consists of one background/upstream site (S-4) and 3 downstream monitoring locations (S-1, S-2, and S-3). The groundwater monitor wells and surface water monitoring locations are shown on Figure 1. The wells have been sampled since 1989; the facility conducted Assessment Monitoring from November 1996 through June/July 1999, but NCSWS approved the facility to

return to Detection Monitoring status with the December 1999 event. Detection Monitoring was conducted at the facility from December 1999 through December 2004. In June 2005, the facility returned to Assessment Monitoring due to the presence of VOCs in groundwater from one or more wells during the previous monitoring event.

For the June 2006 event, the groundwater levels were measured on 05 June 2006 in each of the wells sampled in the groundwater compliance monitoring network in addition to four site piezometers that are not part of the compliance network. The designated compliance monitoring network wells were sampled 05 through 06 June 2006. Compliance monitoring wells were sampled using the installed dedicated bladder pumps.

The surface water quality monitoring network for the MSWLF includes one upstream/background sampling point (S-4) and three downstream surface water sampling points (S-1, S-2, and S-3). The surface water points were sampled 05 June 2006. Surface water was sampled by collecting grab samples into laboratory-supplied containers, taking care not to overfill the containers or dilute preservatives.

2.2 LABORATORY ANALYTICAL METHODS

Groundwater and surface water samples were submitted under chain of custody to Prism Laboratories, Inc. (Prism) of Charlotte, North Carolina for analysis of the North Carolina Appendix II list ("detects") of organic constituents plus inorganics cyanide and sulfide. Prism is certified (Cert. No. 402) by the State of North Carolina to conduct analytical chemistry for state compliance programs. VOCs were analyzed by Method SW846-8260B. Semivolatile organic compounds (SVOCs) were analyzed by Method SW846-8270C. Organochlorine pesticides and polychlorinated biphenyls (PCBs) were analyzed by Method SW846-8081A and Method SW846-8082. Inorganic constituents cyanide and sulfide were analyzed by the Methods 9014 and 376.1, respectively.

The remaining inorganic constituents were analyzed by the City of Durham's South Durham Water Reclamation Facility Laboratory. Groundwater and surface water samples were analyzed for Appendix II total inorganics (antimony, arsenic, barium, beryllium, cadmium, chromium, copper, lead, nickel, selenium, silver, thallium, vanadium, and zinc) by Method 200.8 ICP-MS. Groundwater samples were analyzed for both total (unfiltered) and dissolved (field filtered) inorganics. Dissolved samples were filtered in the field at each location through a 0.45-micron disposable, dedicated filter and contained in bottles separate from total metals samples for transport to the laboratory.

The June 2006 data are summarized in Tables 1 through 4 relative to the laboratory's Method Detection Limits (MDLs). The laboratory MDLs are either equal to or less than the DWM-required Practical Quantitation Limits (PQLs). The laboratory MDL is listed in the June 2006 laboratory reports (Appendix A); if a constituent was not detected above MDL, the result is reported in the summary table as less than ("<") the corresponding MDL.

WESTON personnel measured water quality indicator parameters pH, temperature, and conductivity in the field during purging and just prior to sample collection using portable field instruments. Due to equipment failure, turbidity was not measured during the current sampling event. Field meters were calibrated before use according to the manufacturer's instructions on a daily basis. The last measurements made prior to sample collection are presented in Table 5.

Analytical results and field measurements are discussed and summarized in Section 3. The laboratory analytical data reports, laboratory quality assurance/quality control information, and the chain-of-custody records are included in Appendix A.

2.3 STATISTICAL EVALUATION PROCEDURES AND TESTS

Statistical comparisons of background monitoring data to compliance data are part of the required compliance demonstration (Rule .1632(g),(h), and (i)). In this report, the background groundwater concentrations of inorganic constituents have been evaluated using a series of recommended statistical tests, also allowed by Rule .1632(g)(3) and (5), appropriate for groundwater detection monitoring (USEPA, 1992).

2.3.1 Statistical Evaluation of Inorganic Constituents

WESTON conducted a statistical evaluation of available analytical results from background/upgradient well P-6. Available historical groundwater inorganic data from background/upgradient well P-6 were compiled to calculate a background value for each inorganic constituent.

Much of the available inorganic analytical data for the upgradient well is below detection limits. Because pre-waste baseline groundwater monitoring data is not available for the downgradient wells, a comparison of the pooled upgradient well data to individual downgradient well data (intra-well comparison) was the only data comparison option. However, a comparison of upgradient well data to downgradient well data is not ideal and can be inappropriate because it fails to incorporate observed spatial variability in the data set. The resulting background concentrations calculated from the upgradient well data are discussed in Section 4.

The statistical tests used in this report include the Shapiro-Wilk test of normality, Aitchison's Adjustment to log-normal data, and Parametric Prediction Limits. Calculation tables and worksheets for the statistical evaluations are included in Appendix B. The following procedure was used, in the order listed, to statistically evaluate inorganic analytical data to determine Proposed Background Concentrations for each constituent monitored (USEPA, 1992; VDEQ, 1995):

1. The total number of chemical analyses conducted for each constituent since the start of groundwater monitoring was counted (Appendix B, Table B-1).

2. The percentage of "censored" data was calculated. An analytical result was considered censored if the concentration was less than the detection limit reported in available analytical data summaries. For June 2006 data, this detection limit was the Method Detection Limit.

3. If the percentage of non-detected (ND) results for an individual constituent was greater than 50 percent (ND > 50%), then no further statistical evaluation was done, and the Background Concentration was set equal to DWM's PQL concentration for that constituent. If the percentage of non-detects for an individual constituent was less than or equal to 50 percent (ND $\leq$ 50%), then statistical evaluation for that constituent proceeded to Step 4 below.

4. If the percentage of non-detects for an individual constituent was less than or equal to 50 percent (ND $\leq$ 50%), the uncensored data were tested for normal distribution using the Shapiro-Wilk test (USEPA, 1992: Sect. 1.1.4) at 95 percent confidence.

5. If the uncensored data was determined to be normally distributed, then the statistical evaluation proceeded to calculation of Upper Prediction Limits, as described in Step 9 below. If the uncensored data was determined to be non-normal, then the base-10 logarithm (log) of each concentration was calculated, and the Shapiro-Wilk test was repeated using the log-transformed data.

6. While ranking the uncensored data sets (with n > 12) for the Shapiro-Wilk test, sample concentrations that were approximately an order of magnitude greater or less than the next closest concentration would have been tested as possible outliers (an extreme value not representative of the true distribution of the data set) as recommended and described in USEPA (1992: Sect. 6.2). If the value had been determined to be an outlier, then it would have been excluded from the data set, and the Shapiro-Wilk test would have been repeated without the outlier value. However, potential outliers were not identified in results for the inorganic constituents.

7. If the Shapiro-Wilk test of the log-transformed data indicated that the log-transformed data was non-normal, then the calculated background value for that individual constituent was set equal to the maximum concentration reported for the sample data set.

8. If the log-transformed data was determined to be normally distributed, then Aitchison's Adjustment (USEPA, 1992: Sect. 2.2.2) was computed on the log-transformed data. Aitchison's Adjustment provides more accurate estimation of the mean and standard deviation of a normally distributed data set with ND $\leq$ 50%.

9. An Upper Prediction Limit was calculated, using normal or Aitchison's Adjusted log-normal data, using the procedure described in USEPA (1992: Sect. 4.2).

2.3.1.1 Assumption of Normality

Prior to conducting statistical tests that were based on the assumption of normally distributed data, normality of the background data was tested using the Shapiro-Wilk statistic (W). At least four

independent data values were required to test for normality for a constituent; if less than four values were available, statistical evaluation was not conducted. Normality was assessed at the 0.05 level of significance (95 percent confidence level). In the event that the raw data failed to follow a normal distribution, the data were transformed using a base-10 logarithm (log). The transformed data then were tested for normality using the Shapiro-Wilk statistic. In the event that the log-transformed data also failed to follow a normal distribution, tests of significance would have been conducted using the most appropriate non-parametric procedure; however, the data tested were either normally or log-normally distributed.

2.3.1.2 Statistical Tests

For normally or log-normally distributed data, the statistical test by which downgradient data were compared to facility background data was based upon (1) the nature of the data and (2) the number of data values that were less than or below the laboratory Detection Limit (BDL). Statistical tests were evaluated at the 0.05 level of significance (95 percent confidence level) and were conducted as one-tailed tests.

Prediction intervals were calculated on the background well concentrations for each constituent, as prediction intervals (rather than tolerance or confidence intervals) are recommended for use in detection monitoring for comparing downgradient compliance well concentrations to background well concentrations (USEPA, 1992: Sect. 4). Parametric Upper Prediction Limit calculations are included in Appendix B; the resulting values are summarized in Table 6.

If a data set was log-normal, then the prediction interval was constructed using the logarithm of the sample values. The downgradient compliance well data then were log transformed prior to comparison with the prediction interval, as recommended (USEPA, 1992: Sect. 4) for a valid comparison.

2.3.1.3 Site Data Preliminary Evaluation

The June 2006 concentrations from background well P-6 were added to the data set, and the background concentrations were re-calculated to include the latest background well data. The data sets for individual constituents ranged in size from 2 to 26 sample concentrations. For such small sample sets, testing for outliers was not conducted, and all available detectable concentrations were considered for a given constituent evaluation. For those constituents with only two data points available (mercury and tin), background concentrations were not calculated or proposed (Appendix B, Table B-1).

In the background well P-6 groundwater, 4 of the 19 inorganic constituents exhibited concentrations below the laboratory detection limit for all analyses historically (ND = 100%), i.e. available data was "censored" for four constituents (antimony, mercury, selenium, and tin) (see Appendix B, Table B-1). Six of the 19 inorganic constituents (arsenic, cadmium, cyanide, silver, sulfide, and thallium) exhibited more than 50 percent but less than 100 percent BDL results (50% < ND <100%). The maximum detection limit (a non-parametric test) from the data set is proposed as the Background Concentration for these constituents.

Barium, beryllium, chromium, cobalt, copper, lead, nickel, vanadium, and zinc reported less than 50 percent BDL results (ND ≤50%), i.e. more than 50 percent of the data for these constituents was above detection limits. The data sets for these compounds were determined to be log-normally distributed. Log-normalized data sets were used to calculate Prediction Limits to establish Proposed Background Groundwater Concentrations (Table 6). As the Parametric Prediction Interval calculated for log-normally distributed constituents typically is anomalously high relative to the highest concentration reported by background well P-6, the Prediction Limit value has been listed in summary Tables 1 and 6 in its logged form, i.e. as log (value), for valid comparison to the logarithm of the downgradient compliance well concentrations, as recommended in USEPA (1992: Sect. 4.0).

2.3.2 Statistical Evaluation of Organic Constituents

For organic constituents, the Background Groundwater Concentration has been set equal to the analytical PQLs required by the DWM, if established, or attainable by standard laboratory analytical methods. Therefore, for organic constituents, a concentration that is quantifiable, i.e. at or above the PQL, is considered a statistically significant increase over background. Table 7 lists the proposed groundwater background concentrations, 2L standards, and MCLs for organic constituents that have been detected from the Appendix II list.

2.4 GROUNDWATER FLOW

The June 2006 groundwater elevations presented in Table 8 were calculated relative to the surveyed measuring point (top of inner casing) available for each well measured (MW-2, MW-3, MW-4R, MW-5, MW-6R, MW-7R, MW-8, and P-6). Groundwater potentiometric surface contour placement was done by hand on a topographic base map of the landfill and surrounding area. Groundwater potentiometric contours in the area of the capped landfill have been assumed to approximate overlying land surface topography. Groundwater is assumed to flow along a path perpendicular to the potentiometric contours, from highest to lowest groundwater elevation.

The horizontal groundwater flow gradient magnitude across the site was estimated using five pairs of groundwater and surface water elevations (P-6 to MW-7R; MW-9R to MW-8; MW-9R to P-6; MW-9R to P-2R; and MW-4R to MW-3). Groundwater elevation data for these pairs were used because the wells appear to be closely aligned with the groundwater flow direction, determined from the potentiometric surface map. The gradient magnitude (i) was calculated using the standard equation:

$$i = \frac{\Delta h}{\Delta L}$$

where Δh is the change in head measured along the direction of groundwater flow, and ΔL is the straight-line distance between the measurement locations. Section 5 and Table 9 discuss the results of the gradient magnitude estimates. Calculations are presented in Appendix B, Table B-2.

Average horizontal gradients and the available hydraulic conductivity (K) for wells were used to estimate average linear groundwater flow velocities. Average linear groundwater flow velocities were computed using the following equation:

$$V = \frac{Ki}{n_e}$$

where V = average linear velocity (feet per day) , K = hydraulic conductivity (ft/day), i = horizontal hydraulic gradient, and n_e = effective porosity. An effective porosity of 0.20 was assumed for these wells screened in unconsolidated sediments or within a sandstone unit, to be consistent with previous assumptions (M-P, 1999). Hydrogeologic data are presented and discussed in Section 5.

3. ANALYTICAL RESULTS

The analytical results from the June 2006 groundwater sampling event are summarized in Tables 1 and 3. Surface water analytical results are summarized in Tables 2 and 4. The June 2006 laboratory analytical data report, quality assurance and quality control data, and sample chain of custody records are included in Appendix A.

3.1 INORGANIC ANALYSES

3.1.1 Groundwater

During the June 2006 event, inorganic constituents antimony and thallium were not detected above MDLs in upgradient well, P-6, or downgradient monitoring wells. Groundwater from upgradient well P-6 exhibited six inorganic constituents at quantifiable concentrations in June 2006 including barium, chromium, copper, cyanide, nickel, and zinc.

Site groundwater samples have been analyzed for both total metals (required) and dissolved metals (voluntary additional) since June 1996. The purpose of the dissolved analyses has been to provide additional data for alternate interpretation of apparently high concentrations of total metals. Analysis of total metals provides an assessment of both dissolved and mobile particulate-associated metals available for potential transport. Typically, a dissolved (filtered) metal determination is less than its concentration as a total (unfiltered) metal, indicating that mobile particulates, removed by filtering for the dissolved analysis, contribute to the total concentration. A high total metals result paired with a low to non-detectable dissolved metals result suggests that the total metal concentration was primarily the result of mobile particulates, not dissolved species, in the sample. Mobile particulates are frequently present in groundwater with high turbidity, such as has been observed in groundwater sampled from several of the site wells, including MW-5 and P-6 (Table 5).

During the June 2006 sampling event:

- Total arsenic was detected in groundwater at MW-3 (5.0 µg/L) and MW-5 (7.0 µg/L), below the NC 2L standard of 50 µg/L. Dissolved arsenic was reported at MW-3 (5.0 µg/L) and at MW-5 (5.0 µg/L).

- Total and dissolved barium was detected in each of the compliance monitoring well samples. Total barium concentrations in compliance wells were above the NC 2L standard of 2,000 µg/L, at MW-5 (3,778 µg/L). Concentrations at P-6 (575 µg/L), MW-2 (97 µg/L), MW-3 (1339 µg/L), MW-4R (796 µg/L), MW-6R (939 µg/L), MW-7R (80 µg/L), and MW-8 (90 µg/L) below the NC 2L standard. Dissolved barium concentrations were above the NC 2L standards at MW-5 (2,381 µg/L). Concentrations at P-6 (485 µg/L), MW-2 (57 µg/L), MW-3 (950 µg/L), MW-4R (660 µg/L), MW-6R (799 µg/L), MW-7R (797 µg/L), and MW-8 (71 µg/L) were below the NC 2L standards.

- Total chromium was detected below the NC 2L standard of 50 µg/L in downgradient wells MW-2 (6 µg/L), MW-3 (39 µg/L), MW-5 (41 µg/L), MW-6R (8 µg/L), and MW-7R (9 µg/L). Dissolved chromium was also reported at MW-2 (5 µg/L), MW-5 (38 µg/L), MW-6R (7 µg/L), and MW-7R (7 µg/L). The background well, P-6, reported concentrations above the NC2L standard of 50 µg/L for total chromium at 69 µg/L and dissolved chromium at 61 µg/L.

- Total cobalt and dissolved cobalt was not analyzed in groundwater in June 2006.

- Total copper was reported below the NC 2L standard of 1000 µg/L in groundwater background and downgradient wells: P-6 (5 µg/L), MW-2 (3 µg/L), MW-3 (4 µg/L), MW-4R (3 µg/L), MW-5 (67µg/L), MW-6R (14 µg/L), MW-7 (7 µg/L), and MW-8 (4 µg/L). Dissolved copper was also reported at MW-6R (2 µg/L) and MW-8 (3 µg/L).

- Total cyanide was detected in groundwater at background well P-6 (3.6 µg/L) and downgradient wells MW-5 (2.5 µg/L) and MW-8 (2.2 µg/L) below the NC 2L standard of 70 µg/L. Four downgradient wells, MW-2 (1.9J), MW-3 (1.9J), MW-4R (1.8J), and MW-6R (1.6J), reported estimated J values. The estimated J value is a value that is between the reporting limit and the MDL.

- Total lead was reported below the NC 2L standard of 15 µg/L in downgradient well MW-6R (6.0 µg/L). Total lead was reported above the NC 2L standard in downgradient well MW-5 (38 µg/L). Dissolved lead was not detected in June 2006 groundwater samples.

- Total nickel was reported below the NC 2L standard of 100 µg/L in groundwater at background and downgradient wells P-6 (61 µg/L), MW-3 (21 µg/L), MW-5 (33 µg/L), and MW-6R (19 µg/L). Dissolved nickel was reported at P-6 (50 µg/L), MW-5 (18 µg/L), and MW-6R (15 µg/L).

- Dissolved selenium was reported in groundwater from down downgradient well MW-3 (5 µg/L) below the 2L standards during the June 2006 sampling event.

- Sulfide was not detected during the June 2006 sampling event.

- Total vanadium was reported in groundwater from downgradient wells MW-5 (42 µg/L), MW-6R (9 µg/L) and MW-7 (7 µg/L). Dissolved vanadium was not detected during the June 2006 sampling event.

- Total zinc was reported below the NC 2L standard of 2100 µg/L in upgradient and downgradient compliance wells P-6 (14 µg/L), MW-2 (31 µg/L), MW-3 (11 µg/L), MW-5 (98 µg/L), MW-7R (24 µg/L), and MW-7R (18 µg/L). Dissolved zinc was reported at MW-2 (29 µg/L) during the June 2006 sampling event.

3.1.2 Surface Water

As it is not required to establish background concentrations for surface water monitoring, downstream concentrations simply are compared to the upstream sample concentration and the appropriate North Carolina Surface Water Quality standards (NCSWQS). This site is within the Neuse River Basin, and its surface waters are subject to Class WS-IV-NSW water quality standards, according to inquiries of personnel in the North Carolina Division of Water Quality.

In June 2006, samples were collected at surface water monitoring locations S-1, S-3, and S-4. The surface water monitoring location, S-2, was not collected during the June 2006 sampling event because it was dry. The surface water inorganic constituent data for the current and previous sampling events are summarized in Table 2. Barium, copper, sulfide, and zinc were detected above MDLs in samples from one or more surface water monitoring locations for the current monitoring event.

During the June 2006 sampling event:

- Barium was detected in June 2006 samples at the surface water location S-1at 126 µg/L, below the NCSWQS for barium of 1,000 µg/L.

- Copper was detected at surface water locations S-1, S-3, and S-4 at 9 µg/L, 3 µg/L, and 3 µg/L, respectively. The S-1 result is above the NCSWQS for copper of 7.0 µg/L.

- Cyanide was detected at surface water locations S-1, S03 and S-4 at 2.2 µg/L, 3.1 µg/L and 3.1 µg/L, respectively, below the NCSWQS for cyanide of 5 µg/L.

- Sulfide was detected at downstream location S-1 at 120 J µg/L. Neither a NCSWQS nor a MCL have been established for sulfide at this time.

- Vanadium was not detected in June 2006 samples. Neither a NCSWQS nor a MCL have been established for vanadium at this time.

- Zinc was detected in June 2006 samples from background surface water location S-4 (21 µg/L) and downstream locations S-1 (17 µg/L) and S-3 (17 µg/L). These concentrations did not exceed the NCSWQS for zinc of 50 µg/L.

3.2 ORGANIC ANALYSES

3.2.1 Groundwater

The following organic compounds have reported above detection limits at one or more wells for one or more groundwater monitoring events since September 1994:

- acetone;
- benzene;
- chlorobenzene;
- chloroethane (ethyl chloride);
- 1,1-Dichloroethane (1,1-DCA);
- 1,4-Dichlorobenzene;
- 1,2-Dichloropropane;
- cis-1,2-dichloroethylene (c1,2-DCE);
- trans-1,2-dichloroethene (t1,2-DCE);
- methylene chloride (dichloromethane);
- tetrachloroethene (PCE);
- toluene;
- trichloroethene (TCE); and
- vinyl chloride.

Each of these constituents has been reported in one or more samples from previous sampling events. Most of these compounds were exhibited in downgradient well MW-3. For one or more sampling events previously, one of these compounds also has been reported in wells MW-4, MW-5, MW-6R, MW-7, and MW-8.

In June 2006, groundwater samples were collected and analyzed for organic Appendix II constituents: volatile organic compounds (VOCs) by EPA Method 8260C, semivolatile organic compounds SVOCs by Method 8270B, organochlorine pesticides by Method 8081A, and polychlorinated biphenyls (PCBs) by Method 8082. During the June 2006 sampling event, organic compounds were detected above method detection limits in groundwater from compliance monitoring wells MW-3 and MW-6R, on the west side of the landfill.

At compliance well MW-3, benzene (at .87µg/L) did not exceed the NC 2L standard of 1.0 µg/L. Also at MW-3, chlorobenzene (at 1.6 µg/L) was detected below its NC 2L standard of 50 µg/L. 1,4-Dichlorobenzene was, also, detected in MW-3 at 1.2 µg/L below its NC 2L standard of 1.4 µg/L.

At compliance well MW-6R, the following organic compounds were reported at concentrations exceeding NC2L standards: 1,4-dichlorobenzene (3.6 µg/L),1,2-dichloropropane (3.5 µg/L), benzene (3.8 µg/L), c1,2-DCE (97 µg/L), PCE (1.9 µg/L), TCE (2.9 µg/L), and vinyl chloride (16 µg/L). Other organic compounds detected at concentrations below established NC 2L standard were 1,1-DCA (4.5 µg/L), chlorobenzene (.73 J), and t1,2-DCE (5.1 µg/L).

3.2.2 Surface water

The surface water locations (S-1, S-3, and S-4) were sampled in June 2006 and analyzed for Appendix II volatile organic compounds by EPA Method 8260C, semivolatile organic compounds by Method 8270B, organochlorine pesticides by Method 8081A, and polychlorinated biphenyls (PCBs) by Method 8082. Surface water sample, S-1 did not exhibit organic compounds above MDLs during the current event. S-4 (0.65J) and S-3 (0.59J) reported an estimated J value for chloroform during the June 2006 sampling event. The concentration was above the MDL but below the reporting limit.

4. STATISTICAL RESULTS

Statistical comparisons of baseline monitoring data to compliance data are part of the required compliance demonstration (Rule .1632(g),(h), and (i)). The upgradient well groundwater data was evaluated to develop representative background concentrations using the Shapiro-Wilk normality test, Atchison's Adjustment to log-normal data, and Parametric Prediction Intervals. Details of the procedures, tests, and reasons for choosing them are described in Section 2.3.

4.1 INORGANIC STATISTICAL RESULTS

Background inorganic concentrations were determined through statistical evaluation of available analytical data from the upgradient well P-6. Groundwater standards and proposed background concentrations are summarized in Table 6. Statistical calculations used to determine these background concentrations are included in Appendix B. Inorganic constituents analyzed in June 2006 from downgradient monitoring wells did not exceed the corresponding proposed background groundwater concentrations.

During the current event, inorganic concentrations reported in background well P-6 did exceed NC 2L standard of 50 µg/L for total chromium (69 µg/L) and dissolved chromium (61 µg/L). Using current and historical data from background well P-6, proposed background concentrations were calculated that exceed the NC 2L standards for arsenic, barium, chromium, lead, nickel, and zinc.

In June 2006, NC 2L standards were exceeded in groundwater for total lead (at MW-5). The reported concentration lead in the downgradient compliance well groundwater samples did not exceed the respective proposed background concentration of 476 µg/L (log value 2.68). Also, the NC 2L standard was exceeded in groundwater for total and dissolved barium (at MW-5). The reported concentration barium in the downgradient compliance well groundwater samples did not exceed the respective proposed background concentration of 7021 µg/L (log value 3.86).

4.2 ORGANIC STATISTICAL RESULTS

For organic compounds, the PQLs required by the DWM are the proposed background groundwater concentrations. In the June 2006 groundwater samples, concentrations at one or more downgradient wells exceeded both NC2L standards and PQLs for the following compounds: PCE, c1,2-DCE, and vinyl chloride. The following compounds were detected in groundwater exceeding NC 2L standards but were below PQLs: benzene, 1,2-dichloropropane, and TCE.

5. HYDROGEOLOGY

The site is located in central North Carolina in the Piedmont physiographic province and within the Durham Basin. A down-dropped fault block created the basin. The Durham Basin is filled with Triassic-age sedimentary rocks (sandstones, mudstones, and conglomerates) and unconsolidated sediments derived from erosion of adjoining Paleozoic metamorphic rocks of the Raleigh Belt.

Site monitor wells are screened in silty sands, silty to sandy clays, and sandstones of the Chatham Group of Triassic formations. Groundwater yields and recharge rates in the site monitor wells have been observed to be low to very low since June 2001, which is consistent with the low hydraulic conductivity values reported from individual well slug tests (M-P, 1994).

Depth to groundwater was measured in nine landfill monitor wells and piezometers prior to sampling in June 2006. Prior to this sampling event, groundwater elevations were measured in the compliance monitor wells and several other site wells. Table 8 summarizes groundwater elevations available since 1998.

Groundwater elevation contours were drawn using the June 2006 measurements superimposed on the topographic base map (Figure 1). The net groundwater flow direction beneath the landfill is generally northwest toward Ellerbe Creek. Local variations in groundwater flowpaths are created by the ground surface that slopes away from the topographic highs created by the landfill. Locally, groundwater flows radially away from the closed and capped landfill toward unnamed streams nearly surrounding the former disposal area to the northeast, south, and west. These unnamed streams are tributaries to Ellerbe Creek, which flows to Falls Lake northeast of the landfill property.

Horizontal hydraulic gradients were estimated from the June 2006 groundwater level measurements between five different wells and a downgradient point. These gradient locations are approximately parallel to the local groundwater flowpaths. The average horizontal gradient calculated for the site

was 0.06, with the lowest gradients estimated near well pairings MW-4R / MW-3 and P-6 / MW-7R, and the highest gradient estimated near well MW-9R/P-6, as shown in Table 9. These gradients are consistent with previous estimates (WESTON, January 2004).

The average linear groundwater flow velocity estimates in different areas of the site range from 0.13 to 1.41 ft/day (Table 9), which are consistent with previous estimates (WESTON, January 2004). The linear velocity equation used to calculate these flow rates makes the simplifying assumptions of a homogeneous and isotropic aquifer. This equation can grossly overestimate velocity when applied to heterogeneous and/or anisotropic conditions. Gradient and average linear velocity calculations are presented in Appendix B, Table B-2.

6. CONCLUSIONS

Groundwater at the closed City MSWLF was sampled in June 2006. During the June 2006 event, organic compounds were detected at two locations, MW-3 and MW-6R. Groundwater samples from one or both of these wells exceeded both NC2L standards and PQLs for the following organic compounds: c1,2-DCE, PCE, and vinyl chloride. The following organic compounds were detected in groundwater exceeding NC 2L standards but were below PQLs: benzene, 1,2-dichloropropane and TCE.

For inorganic constituents, groundwater background concentrations have been updated using June 2006 analytical data and are proposed for this monitoring program. Calculations include inorganic data available from September 1994 through June 2006. For the most recent monitoring event, the NC 2L standard for lead (15 µg/L), total chromium (3,778 µg/L), and dissolved chromium (2381 µg/L) was exceeded in one well (MW-5) but did not exceed the corresponding Proposed Groundwater Background concentration.

In surface water samples collected during the June 2006 monitoring event, organic compounds included in the Appendix II list were not detected above Practical Quantitation Limits. Inorganic constituents antimony, barium, chromium, copper, lead, sulfide, vanadium, and zinc were detected in one or more June 2006 surface water samples at concentrations below NCSWQSs, where established.

Net groundwater flow beneath the landfill is toward the northwest. Locally, groundwater flows radially away from the closed and capped landfill toward streams nearly surrounding the former disposal area to the northeast, south, and west. Horizontal flow gradients and estimated linear velocities calculated for this monitoring event are consistent with the previous event.

Based on the continued detection of organic compounds in groundwater exceeding NC 2L standards, WESTON recommends the Durham MSWLF continue under Assessment Monitoring for the next sampling event scheduled for December 2006. As required by the North Carolina Solid Waste Management Rules, Assessment Monitoring would include analysis of the constituents included in

Appendix II of 40 CFR Part 258. 40 CFR Part 258 - "Appendix II List of Hazardous Inorganic and Organic Constituents."

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Map in File Room

FIGURES

TABLES

TABLE 1
Inorganic Constituents Detected in Groundwater
December 2006 Appendix II Assessment Monitoring
City of Durham Closed Landfill

		MONITOR WELLS																					
Constituent (PQL [1])		P-6 (BKGD.)		MW-2		MW-3		MW-4		MW-4R		MW-5		MW-6		MW-6R		MW-7		MW-7R		MW-8	
NC 2L Standard, ug/L [2]	DATE	Total	Diss.	Total	Diss.	Total	Diss.	Total	Diss.	Total	Diss.	Total	Diss.	Total	Diss.	Total	Diss.	Total	Diss.	Total	Diss.	Total	Diss.
Prop. BKGD., ug/L [3]	SAMPLED	ug/L		ug/L		ug/L		ug/L		ug/L		ug/L		ug/L		ug/L		ug/L		ug/L		ug/L	
Antimony (30 ug/L)	Sep-94	<5.0	—	<5.0	—	<5.0	—	<5.0	—	—	—	<5.0	—	<5.0	—	—	—	<5.0	---	—	---	<5.0	—
n/a	Dec-94	<5.0	—	<5.0	—	<5.0	—	<5.0	—	—	—	<5.0	—	<5.0	—	—	—	<5.0	—	---	---	<5.0	—
5	Feb-95	<5.0	—	<5.0	—	<5.0	---	<5.0	---	---	---	<5.0	---	<5.0	---	---	---	<5.0	—	—	—	<5.0	—
	Mar-95	<5.0	—	<5.0	—	<5.0	—	<5.0	—	—	—	<5.0	—	<5.0	—	—	—	<5.0	---	---	---	<5.0	—
	Jun-96	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	—	—	<5.0	<5.0	<5.0	<5.0	—	—	<5.0	<5.0	---	---	<5.0	<5.0
	Nov-96	<5.0	<5.0	6.0	<5.0	<5.0	<5.0	<5.0	<5.0	---	---	<5.0	<5.0	<5.0	<5.0	---	---	<5.0	<5.0	—	—	<5.0	<5.0
	Mar-97	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	—	—	<5.0	<5.0	<5.0	<5.0	---	---	<5.0	<5.0	—	—	<5.0	<5.0
	Oct-97	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	—	—	<5.0	<5.0	<5.0	<5.0	—	—	<5.0	<5.0	---	---	<5.0	<5.0
	May-98	<5.0	<5.0	<5.0	<73.0	<5.0	<5.0	<5.0	<5.0	—	—	<5.0	<5.0	<5.0	<5.0	---	---	<5.0	<5.0	—	—	<5.0	<5.0
	Dec-98	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	well destroyed		---	---	<5.0	<5.0	<5.0	<5.0	—	—	<5.0	<5.0	---	---	<5.0	<5.0
	Jun-99	<5	---	<5	<5	<5	<5	—	—	—	—	<5	<5	—	---	—	---	<5	---	—	—	<5	<5
	Jul-99	—	—	—	---	---	---	---	---	<5	<5	---	—	<5	<5	—	—	—	—	---	---	---	---
	Dec-99	<5	<5	<5	<5	<5	<5	—	—	<5	<5	<5	<5	<5	<5	---	---	<5	<5	---	---	<5	<5
	Jun-00	<5	<5	<5	<5	<5	<5	---	—	<5	<5	<5	<5	—	—	—	—	<5	<5	—	—	<5	<5
	Dec-00	<5	<5	<5	<5	<5	<5	---	---	<5	<5	<5	<5	—	---	—	—	<5	<5	---	—	<5	<5
	Jun-01	<5	<5	<5	<5	<5	n/m	—	—	<5	<5	<5	<5	<5	n/m	---	---	<5	<5	---	---	<5	<5
	Dec-01	<5	<5	<5	<5	<5	<5	---	---	<5	<5	<5	<5	<5	n/m	—	—	<5	<5	—	—	<5	<5
	Jun-02	<5	<5	<5	n/m	<5	<5	—	—	<5	<5	<5	<5	<5	n/m	---	---	<5	<5	---	---	<5	<5
	Dec-02	<5	<5	<5	<5	<5	<5	---	---	<5	<5	<5	<5	<5	<5	---	---	<5	<5	—	—	<5	<5
	Jun-03	<5	<5	<5	<5	<5	<5	—	---	<5	<5	<5	<5	<5	<5	—	—	<5	<5	—	—	<5	<5
	Dec-03	<5	<5	<5	<5	<5	<5	—	—	<5	<5	<5	<5	<5	<5	---	---	<5	<5	---	---	<5	<5
	Jun-04	<5	<5	<5	<5	<5	<5	---	---	<5	<5	<5	<5	—	—	<5	<5	---	—	<5	<5	<5	<5
	Dec-04	<5	<5	<5	<5	<5	<5	—	—	<5	<5	<5	<5	---	---	<5	<5	—	---	<5	<5	<5	<5
	Jun-05	<5	<5	<5	<5	<5	<5	---	---	<5	<5	<5	<5	—	---	<5	<5	—	—	<5	<5	<5	<5
	Dec-05	<5	<5	<5	<5	<5	<5	—	—	<5	<5	<5	<5	---	---	<5	<5	—	---	<5	<5	<5	<5
	Jun-06	<5	<5	<5	<5	<5	<5	---	---	<5	<5	<5	<5	—	—	<5	<5	---	—	<5	<5	<5	<5
Arsenic (10 ug/L)	Sep-94	11.0	—	<5.0	—	<5.0	—	<5.0	—	—	—	<5.0	---	6.8	---	—	—	<5.0	---	—	—	<5.0	—
50	Dec-94	<5.0	—	<5.0	—	<5.0	---	<5.0	---	---	---	<5.0	—	<5.0	—	---	---	<5.0	—	---	—	<5.0	---
11	Feb-95	9.1	---	<5.0	---	<5.0	—	<5.0	—	—	—	<5.0	---	<5.0	---	—	—	<5.0	—	---	---	<5.0	—
	Mar-95	<5.0	---	<5.0	---	<5.0	—	<5.0	—	—	—	8.2	---	<5.0	—	—	—	<5.0	—	---	—	<5.0	—
	Nov-95	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	—	—	<5.0	<5.0	<5.0	<5.0	—	---	<5.0	<5.0	---	—	<5.0	<5.0
	Jun-96	<5.0	<5.0	5.0	<5.0	<5.0	<5.0	<5.0	<5.0	---	---	<5.0	<5.0	<5.0	<5.0	---	---	<5.0	<5.0	—	—	<5.0	<5.0
	Nov-96	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	—	—	<5.0	<5.0	<5.0	<5.0	—	—	<5.0	<5.0	---	---	<5.0	<5.0
	Mar-97	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	---	—	<5.0	<5.0	<5.0	<5.0	—	—	<5.0	<5.0	—	---	<5.0	<5.0
	Oct-97	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	---	---	<5.0	<5.0	<5.0	<5.0	—	---	<5.0	<5.0	—	—	<5.0	<5.0
	May-98	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	---	—	<5.0	<5.0	7.0	<5.0	---	—	<5.0	<5.0	—	---	<5.0	<5.0
	Dec-98	5.0	<5.0	<5.0	<5.0	6.0	10.0	well destroyed		—	---	<5.0	6.0	<5.0	<5.0	---	—	<5.0	<5.0	—	—	<5.0	<5.0
	Jun-99	6	—	<5	<5	6	<5	---	---	---	—	<5	<5	—	---	---	—	<5	---	—	---	<5	<5
	Jul-99	—	---	---	---	—	—	---	—	5	<5.0	—	---	7	<5	—	---	---	—	---	—	—	---
	Dec-99	<5	<5	<5	<5	<5	<5	---	—	<5	<5	<5	<5	<5	<5	---	—	<5	<5	—	---	<5	<5

TABLE 1
Inorganic Constituents Detected In Groundwater
December 2006 Appendix II Assessment Monitoring
City of Durham Closed Landfill

Constituent (PQL [1])	DATE	MONITOR WELLS																					
NC 2L Standard, ug/L [2]		P-6 (BKGD.)		MW-2		MW-3		MW-4		MW-4R		MW-5		MW-6		MW-6R		MW-7		MW-7R		MW-8	
Prop. BKGD., ug/L [3]	SAMPLED	Total	Diss.	Total	Diss.	Total	Diss.	Total	Diss.	Total	Diss.	Total	Diss.	Total	Diss.	Total	Diss.	Total	Diss.	Total	Diss.	Total	Diss.
		ug/L		ug/L		ug/L		ug/L		ug/L		ug/L		ug/L		ug/L		ug/L		ug/L		ug/L	
Arsenic (continued)	Jun-00	6	<5	<5	<5	6	<5	---	---	<5	<5	7	<5	---	---	---	---	<5	<5	---	---	<5	<5
	Dec-00	<5	<5	<5	<5	18.0	9.0	---	---	<5	<5	<5	<5	<5	<5	---	---	<5	<5	---	---	<5	<5
	Jun-01	<5	<5	<5	<5	6.0	n/m	---	---	<5	<5	<5	<5	<5	n/m	---	---	<5	<5	---	---	<5	<5
	Dec-01	<5	<5	<5	<5	<5	<5	---	---	<5	<5	6	5	<5	n/m	---	---	<5	<5	---	---	<5	<5
	Jun-02	<5	<5	<5	n/m	<5	<5	---	---	<5	<5	<5	<5	<5	n/m	---	---	<5	<5	---	---	<5	<5
	Dec-02	<5	<5	<5	<5	<5	<5	---	---	<5	<5	<5	<5	<5	<5	---	---	<5	<5	---	---	<5	<5
	Jun-03	<5	<5	<5	<5	<5	<5	---	---	<5	<5	<5	<5	<5	<5	---	---	<5	<5	---	---	<5	<5
	Dec-03	<5	<5	<5	<5	6.0	5	---	---	<5	<5	6	<5	<5	<5	---	---	<5	<5	---	---	<5	<5
	Jun-04	<5	<5	<5	<5	5	<5	---	---	<5	<5	<5	<5	---	---	<5	<5	---	---	<5	<5	<5	<5
	Dec-04	<5	<5	<5	<5	5	<5	---	---	<5	<5	7	<5	---	---	<5	<5	---	---	<5	<5	<5	<5
	Jun-05	<5	<5	<5	<5	<5	5.0	---	---	<5	<5	6	<5	---	---	<5	<5	---	---	6	<5	<5	<5
	Dec-05	<5	<5	<5	<5	<5	6.0	---	---	<5	<5	<5	<5	---	---	<5	<5	---	---	<5	<5	<5	<5
	Jun-06	<5	<5	<5	<5	5.0	5.0	---	---	<5	<5	7	5	---	---	<5	<5	---	---	<5	<5	<5	<5
Barium[4] (500 ug/L)	Sep-94	1834	---	199	---	810	---	590	---	---	---	**9400**	---	531	---	---	---	113	---	---	---	**2115**	---
2000 (log value = 3.3)	Dec-94	760	---	32	---	492	---	580	---	---	---	**2300**	---	84	---	---	---	1775	---	---	---	119	---
log value = 6765.927	Feb-95	**2648**	---	48	---	1047	---	737	---	---	---	**2436**	---	118	---	---	---	1484	---	---	---	111	---
	Mar-95	524	---	37	---	706	---	534	---	---	---	1630	---	144	---	---	---	716	---	---	---	118	---
	Nov-95	970	725	25	53	1500	1890	1030	790	---	---	**3360**	1090	90	100	---	---	770	770	---	---	120	94
	Jun-96	891	296	50	45	1246	997	683	323	---	---	992	518	140	106	---	---	459	226	---	---	123	61
	Nov-96	1555	373	47	33	879	650	547	532	---	---	976	867	104	107	---	---	512	497	---	---	84	50
	Mar-97	850	546	70	59	1287	983	774	641	---	---	1154	833	87	80	---	---	509	352	---	---	138	93
	Oct-97	840	548	48	71	**3390**	1000	623	812	---	---	1250	1102	111	360	---	---	558	599	---	---	312	158
	May-98	779	360	48	45	1177	940	600	613	---	---	1637	1576	249	152	---	---	482	449	---	---	103	82
	Dec-98	**2390**	386	45	41	1024	1355	well destroyed		---	---	867	1017	126	128	---	---	655	554	---	---	118	118
	Jun-99	1850	---	106	48	1498	1137	---	---	---	---	996	888	---	---	---	---	2780	---	---	---	373	113
	Jul-99	---	---	---	---	---	---	---	---	1217	823	---	---	507	598	---	---	---	---	---	---	---	---
	Dec-99	944	241	84	53	1510	1016	---	---	315	270	942	782	122	93	---	---	366	337	---	---	116	78
	Jun-00	**2488**	596	46	43	1281	1015	---	---	377	376	**3979**	1127	---	---	---	---	1018	813	---	---	114	95
	Dec-00	1826	686	144	94	1504	1091	---	---	1120	392	**5757**	1336	768	648	---	---	518	474	---	---	104	92
	Jun-01	**2804**	921	128	114	1433	n/m	---	---	964	537	**3649**	893	284	n/m	---	---	862	393	---	---	475	97
	Dec-01	965	462	153	64	1219	1204	---	---	1053	449	1441	1417	723	n/m	---	---	750	694	---	---	778	134
	Jun-02	849	677	53	n/m	1117	1083	---	---	943	398	1167	1129	295	n/m	---	---	554	461	---	---	843	167
	Dec-02	620	610	59	<25	1121	1040	---	---	544	512	909	851	128	98	---	---	429	407	---	---	209	113
	Jun-03	432	338	67	49	1175	940	---	---	437	403	941	858	103	71	---	---	450	344	---	---	120	69
	Dec-03	**2861**	582	85	74	1115	953	---	---	544	512	**3692**	949	221	130	---	---	648	493	---	---	141	83
	Jun-04	**5664**	545	97	55	1024	818	---	---	551	506	1899	950	---	---	**3039**	599	---	---	763	568	139	86
	Dec-04	578	384	90	58	1236	1027	---	---	543	520	**4192**	1014	---	---	1444	485	---	---	639	533	111	78
	Jun-05	952	384	64	57	1065	859	---	---	607	561	1845	827	---	---	589	468	---	---	817	590	93	72
	Dec-05	435	402	126	87	1331	947	---	---	585	549	1758	1123	---	---	512	490	---	---	703	596	92	84
	Jun-06	575	485	97	57	1339	950	---	---	796	660	3778	2381	---	---	939	799	---	---	880	797	90	71

TABLE 1
Inorganic Constituents Detected in Groundwater
December 2006 Appendix II Assessment Monitoring
City of Durham Closed Landfill

Constituent (PQL [1])	DATE	MONITOR WELLS																					
		P-6 (BKGD.)		MW-2		MW-3		MW-4		MW-4R		MW-5		MW-6		MW-6R		MW-7		MW-7R		MW-8	
NC 2L Standard, ug/L [2]		Total	Diss.	Total	Diss.	Total	Diss.	Total	Diss.	Total	Diss.	Total	Diss.	Total	Diss.	Total	Diss.	Total	Diss.	Total	Diss.	Total	Diss.
Prop. BKGD., ug/L [3]	SAMPLED	ug/L		ug/L		ug/L		ug/L		ug/L		ug/L		ug/L		ug/L		ug/L		ug/L		ug/L	
Beryllium[4] (2 ug/L)	Sep-94	8.1	---	1.5	---	<1.0	---	<1.0	---	---	---	9.8	---	6.9	---	---	---	<1.0	---	---	---	7.3	---
n/a	Dec-94	3.1	---	<1.0	---	<1.0	---	<1.0	---	---	---	5.0	---	<1.0	---	---	---	3.9	---	---	---	<1.0	---
log value = 1.4	Feb-95	8.6	---	<1.0	---	<1.0	---	<1.0	---	---	---	4.7	---	<1.0	---	---	---	1.9	---	---	---	<1.0	---
	Mar-95	1.5	---	<1.0	---	<1.0	---	<1.0	---	---	---	5.2	---	<1.0	---	---	---	<1.0	---	---	---	<1.0	---
	Nov-95	18.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	---	---	8.0	<1.0	<1.0	<1.0	---	---	<1.0	<1.0	---	---	<1.0	<1.0
	Jun-96	3.0	<1.0	1.5	<1.0	<1.0	<1.0	<1.0	<1.0	---	---	<1.0	<1.0	<1.0	<1.0	---	---	<1.0	<1.0	---	---	<1.0	<1.0
	Nov-96	5.0	<1.0	<1.0	<1.0	3.0	<1.0	<1.0	<1.0	---	---	<1.0	<1.0	<1.0	<1.0	---	---	<1.0	<1.0	---	---	<1.0	<1.0
	Mar-97	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	---	---	<1.0	<1.0	<1.0	<1.0	---	---	<1.0	<1.0	---	---	<1.0	<1.0
	Oct-97	1.5	<1.0	<1.0	<1.0	1.3	<1.0	<1.0	<1.0	---	---	<1.0	<1.0	<1.0	<1.0	---	---	<1.0	<1.0	---	---	<1.0	<1.0
	May-98	1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	---	---	<1.0	<1.0	<1.0	<1.0	---	---	<1.0	<1.0	---	---	<1.0	<1.0
	Dec-98	2.0	<1.0	<1.0	<1.0	<1.0	<1.0	well destroyed		---	---	<1.0	<1.0	<1.0	<1.0	---	---	<1.0	<1.0	---	---	<1.0	<1.0
	Jun-99	5	---	<1	<1	3	<1.0	---	---	---	---	<1	<1	---	---	---	---	4	---	---	---	<1	<1
	Jul-99	---	---	---	---	---	---	---	---	2	<1	---	---	2.0	<1.0	---	---	---	---	---	---	---	---
	Dec-99	2	<1	<1	<1	2	<1	---	---	<1	<1	<1	<1	<1	<1	---	---	<1	<1	---	---	<1	<1
	Jun-00	7	<1	<1	<1	1	<1	---	---	<1	<1	5	<1	---	---	---	---	2	<1	---	---	<1	<1
	Dec-00	2	<1	<1	<1	<1	<1	---	---	<1	<1	6.0	<1	2.0	<1	---	---	<1	<1	---	---	<1	<1
	Jun-01	4	<1	<1	<1	<1	n/m	---	---	<1	<1	2	<1	1	n/m	---	---	<1	<1	---	---	<1	<1
	Dec-01	<1	<1	<1	<1	<1	n/m	---	---	<1	<1	<1	<1	3	<1	---	---	<1	<1	---	---	<1	<1
	Jun-02	<1	<1	<1	n/m	<1	<1	---	---	<1	<1	<1	<1	<1	n/m	---	---	<1	<1	---	---	<1	<1
	Dec-02	<1	<1	<1	<1	<1	<1	---	---	<1	<1	<1	<1	<1	<1	---	---	<1	<1	---	---	<1	<1
	Jun-03	<1	<1	<1	<1	<1	<1	---	---	<1	<1	<1	<1	<1	<1	---	---	<1	<1	---	---	<1	<1
	Dec-03	2.0	<1	<1	<1	<1	<1	---	---	<1	<1	2	<1	<1	<1	---	---	<1	<1	---	---	<1	<1
	Jun-04	2.0	<1	<1	<1	<1	<1	---	---	<1	<1	<1	<1	---	---	2	<1	---	---	<1	<1	<1	<1
	Dec-04	<1	<1	<1	<1	<1	<1	---	---	<1	<1	2	<1	---	---	1	<1	---	---	<1	<1	<1	<1
	Jun-05	<1	<1	<1	<1	<1	<1	---	---	<1	<1	<1	<1	---	---	<1	<1	---	---	<1	<1	<1	<1
	Dec-05	<1	<1	<1	<1	<1	<1	---	---	<1	<1	<1	<1	---	---	<1	<1	---	---	<1	<1	<1	<1
	Jun-06	<1	<1	<1	<1	<1	<1	---	---	<1	<1	2	<1	---	---	<1	<1	---	---	<1	<1	<1	<1
Cadmium (1 ug/L)	Sep-94	<1.0	---	<1.0	---	<1.0	---	<1.0	---	---	---	1.6	---	4.0	---	---	---	<1.0	---	---	---	<1.0	---
1.75	Dec-94	<1.0	---	1.0	---	<1.0	---	<1.0	---	---	---	<1.0	---	<1.0	---	---	---	<1.0	---	---	---	<1.0	---
2.2	Feb-95	2.2	---	<1.0	---	<1.0	---	<1.0	---	---	---	1.6	---	<1.0	---	---	---	32.0	---	---	---	<1.0	---
	Mar-95	<1.0	---	<1.0	---	<1.0	---	<1.0	---	---	---	<1.0	---	1.2	---	---	---	<1.0	---	---	---	<1.0	---
	Nov-95	<1.0	<1.0	<1.0	1.0	<1.0	1.0	<1.0	<1.0	---	---	<1.0	<1.0	<1.0	<1.0	---	---	<1.0	<1.0	---	---	<1.0	<1.0
	Jun-96	<1.0	<1.0	1.8	<1.0	<1.0	<1.0	<1.0	<1.0	---	---	<1.0	<1.0	<1.0	<1.0	---	---	<1.0	<1.0	---	---	<1.0	<1.0
	Nov-96	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	---	---	<1.0	<1.0	<1.0	<1.0	---	---	<1.0	<1.0	---	---	<1.0	<1.0
	Mar-97	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	---	---	<1.0	<1.0	<1.0	<1.0	---	---	<1.0	<1.0	---	---	<1.0	<1.0
	Oct-97	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	---	---	<1.0	<1.0	<1.0	<1.0	---	---	<1.0	<1.0	---	---	<1.0	<1.0
	May-98	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	---	---	<1.0	<1.0	<1.0	<1.0	---	---	<1.0	<1.0	---	---	<1.0	<1.0
	Dec-98	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	well destroyed		---	---	<1.0	<1.0	<1.0	<1.0	---	---	<1.0	<1.0	---	---	<1.0	<1.0
	Jun-99	<1.0	---	<1.0	<1.0	<1.0	<1.0	---	---	---	---	3.0	1.0	---	---	---	---	<1.0	---	---	---	<1.0	<1.0
	Jul-99	---	---	---	---	---	---	---	---	<1.0	<1.0	---	---	1.0	1.0	---	---	---	---	---	---	---	---
	Dec-99	<1	<1	<1	<1	<1	<1	---	---	<1	<1	<1	<1	1	1	---	---	<1	<1	---	---	<1	<1
	Jun-00	<1	<1	<1	<1	<1	<1	---	---	<1	<1	1	<1	---	---	---	---	<1	<1	---	---	<1	<1
	Dec-00	<1	<1	<1	<1	<1	<1	---	---	<1	<1	1	1	2	<1	---	---	<1	<1	---	---	<1	<1
	Jun-01	<1	<1	<1	<1	<1	n/m	---	---	<1	<1	<1	<1	1	n/m	---	---	<1	<1	---	---	<1	<1
	Dec-01	<1	<1	<1	<1	<1	<1	---	---	<1	<1	<1	<1	2	n/m	---	---	<1	<1	---	---	<1	<1

TABLE 1
Inorganic Constituents Detected in Groundwater
December 2006 Appendix II Assessment Monitoring
City of Durham Closed Landfill

Constituent (PQL [1])	DATE SAMPLED	MONITOR WELLS																					
NC 2L Standard, ug/L [2]		P-6 (BKGD.)		MW-2		MW-3		MW-4		MW-4R		MW-5		MW-6		MW-6R		MW-7		MW-7R		MW-8	
Prop. BKGD., ug/L [3]		Total	Diss.	Total	Diss.	Total	Diss.	Total	Diss.	Total	Diss.	Total	Diss.	Total	Diss.	Total	Diss.	Total	Diss.	Total	Diss.	Total	Diss.
		ug/L		ug/L		ug/L		ug/L		ug/L		ug/L		ug/L		ug/L		ug/L		ug/L		ug/L	
Cadmium (continued)	Jun-02	<1	<1	7	n/m	<1	<1	---	---	<1	<1	2	<1	3	n/m	---	---	<1	<1	---	---	<1	<1
	Dec-02	<1	<1	1	<1	<1	<1	---	---	<1	<1	<1	<1	2	<1	---	---	<1	<1	---	---	<1	<1
	Jun-03	<1	<1	<1	<1	<1	<1	---	---	<1	<1	<1	<1	<1	<1	---	---	<1	<1	---	---	<1	<1
	Dec-03	<1	<1	<1	<1	<1	<1	---	---	<1	<1	<1	<1	7	<1	---	---	<1	<1	---	---	<1	<1
	Jun-04	1	<1	<1	<1	<1	<1	---	---	<1	<1	<1	<1	---	---	<1	<1	---	---	<1	<1	<1	<1
	Dec-04	1	<1	<1	<1	<1	<1	---	---	<1	<1	<1	<1	---	---	<1	<1	---	---	<1	<1	<1	<1
	Jun-05	<1	<1	<1	<1	<1	<1	---	---	<1	<1	<1	<1	---	---	<1	<1	---	---	<1	<1	<1	<1
	Dec-05	<1	<1	<1	<1	<1	<1	---	---	<1	<1	<1	<1	---	---	<1	<1	---	---	<1	<1	<1	<1
	Jun-06	<1	<1	<1	<1	<1	<1	---	---	<1	<1	<1	<1	---	---	1.0	<1	---	---	<1	<1	<1	<1
Chromium [4] (10 ug/L)	Sep-94	**207**	---	25.0	---	5.4	---	<5.0	---	---	---	**699.0**	---	**148.0**	---	---	---	12.0	---	---	---	**139.0**	---
50 (log value = 1.7)	Dec-94	71	---	<5.0	---	<5.0	---	<5.0	---	---	---	**142.0**	---	13.0	---	---	---	**95.0**	---	---	---	9.7	---
log value = 860.11	Feb-95	**271**	---	<5.0	---	<5.0	---	<5.0	---	---	---	**128.0**	---	9.6	---	---	---	45.0	---	---	---	8.3	---
	Mar-95	5.8	---	<5.0	---	<5.0	---	<5.0	---	---	---	36.0	---	5.7	---	---	---	14.0	---	---	---	13.0	---
	Nov-95	40	<5.0	<5.0	<5.0	21.0	<5.0	8.0	<5.0	---	---	**129.0**	<5.0	5.0	<5.0	---	---	7.0	<5.0	---	---	6.0	<5.0
	Jun-96	**65**	<5.0	<5.0	<5.0	49.0	<5.0	<5.0	<5.0	---	---	12.0	<5.0	**122.0**	<5.0	---	---	<5.0	<5.0	---	---	<5.0	<5.0
	Nov-96	**133**	<5.0	<5.0	<5.0	**96.0**	<5.0	7.0	<5.0	---	---	19.0	<5.0	5.0	<5.0	---	---	10.0	<5.0	---	---	9.0	<5.0
	Mar-97	<5.0	<5.0	<5.0	<5.0	22.0	<5.0	<5.0	<5.0	---	---	<5.0	<5.0	**165.0**	<5.0	---	---	<5.0	<5.0	---	---	<5.0	<5.0
	Oct-97	**65**	<5.0	<5.0	<5.0	15.0	<5.0	<5.0	<5.0	---	---	<5.0	<5.0	<5.0	<5.0	---	---	7.0	<5.0	---	---	<5.0	<5.0
	May-98	37	<5.0	<5.0	<5.0	6.0	<5.0	<5.0	<5.0	---	---	6.0	<5.0	8.0	<5.0	---	---	5.0	<5.0	---	---	<5.0	<5.0
	Dec-98	**176**	<5.0	<5.0	<5.0	47.0	17.0	well destroyed		---	---	<5.0	<5.0	5.0	<5.0	---	---	9.0	<5.0	---	---	11.0	<5.0
	Jun-99	46	---	<5	<5	**69**	<5	---	---	---	---	7.0	<5	---	---	---	---	35	---	---	---	<5	<5
	Jul-99	---	---	---	---	---	---	---	---	**108**	<5.0	---	---	**89**	<5.0	---	---	---	---	---	---	---	---
	Dec-99	**121**	5	5	5	**68**	5	---	---	6	5	5	5	5	5	---	---	5	5	---	---	5	12
	Jun-00	**297**	5	5	5	40	5	---	---	5	5	7	6	---	---	---	---	33	5	---	---	5	5
	Dec-00	**102**	<5	7	<5	6	<5	---	---	<5	<5	**150**	11	40	<5	---	---	<5	<5	---	---	<5	<5
	Jun-01	41	<5	<5	<5	<5	n/m	---	---	<5	<5	<5	<5	<5	n/m	---	---	25	<5	---	---	13	7
	Dec-01	**54**	<5	<5	<5	23	<5	---	---	<5	<5	24	<5	12	n/m	---	---	16	<5	---	---	<5	<5
	Jun-02	21	<5	<5	n/m	16	<5	---	---	<5	<5	**7**		26	<5	---	---	<5	<5	---	---	6	5
	Dec-02	32	22	<5	<5	19	<5	---	---	30	25	**<5**	<5	<5	<5	---	---	5	<5	---	---	17	6
	Jun-03	**88**	<5	5	<5	28	<5	---	---	9	<5	<5	<5	9	<5	---	---	7	<5	---	---	10	<5
	Dec-03	**89**	11	<5	<5	**62**	47	---	---	17	14	40	7.0	11	9.0	---	---	19	7.0	---	---	10	9.0
	Jun-04	**104**	51	13	5	71	65	---	---	<5	<5	16	<5	---	---	65	18	---	---	13	10	12	11
	Dec-04	**11**	8	6	5	**9**	<5	---	---	<5	<5	67	11.0	---	---	41.0	22.0	---	---	7.0	<5	<5	<5
	Jun-05	32	<5	<5	<5	32	22	---	---	<5	<5	14	<5	---	---	5	5	---	---	18	<5	<5	<5
	Dec-05	<5	<5	5.0	5.0	53.0	33.0	---	---	5.0	<5	22	12.0	---	---	<5	<5			7.0	<5	<5	<5
	Jun-06	69.0	61.0	6.0	5.0	39.0	<5	---	---	<5	<5	41.0	38.0	---	---	8.0	7.0	---	---	9.0	7.0	<5	<5

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Inorganic Constituents Detected in Groundwater
December 2006 Appendix II Assessment Monitoring
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Constituent (PQL [1])	DATE	MONITOR WELLS																					
		P-6 (BKGD.)		MW-2		MW-3		MW-4		MW-4R		MW-5		MW-6		MW-6R		MW-7		MW-7R		MW-8	
NC 2L Standard, ug/L [2]		Total	Diss.	Total	Diss.	Total	Diss.	Total	Diss.	Total	Diss.	Total	Diss.	Total	Diss.	Total	Diss.	Total	Diss.	Total	Diss.	Total	Diss.
Prop. BKGD., ug/L [3]	SAMPLED	ug/L		ug/L		ug/L		ug/L		ug/L		ug/L		ug/L		ug/L		ug/L		ug/L		ug/L	
Cobalt (10 ug/L)	Sep-94	n/m	—	BDL	—	BDL	—	BDL	---	---	---	89.0	—	26.0	—	—	—	BDL	—	—	---	32.0	—
n/a	Dec-94	BDL	—	BDL	---	BDL	---	BDL	---	---	—	39.0	—	26.0	—	—	---	11.0	---	---	---	BDL	—
1046	Feb-95	30.0	---	BDL	—	BDL	—	BDL	—	---	---	23.0	---	18.0	---	—	—	14.0	—	—	—	BDL	---
	Mar-95	BDL	—	BDL	—	BDL	---	BDL	---	---	---	18.0	—	24.0	—	—	—	12.0	—	—	—	BDL	---
	Nov-95	12.0	<10.0	<10.0	<10.0	11.0	<10.0	<10.0	<10.0	---	---	47.0	<10.0	13.0	<10.0	—	—	<10.0	<10.0	—	—	<10.0	<10.0
	Jun-96	<10.0	<10.0	<10.0	<10.0	15	<10.0	<10.0	<10.0	---	---	<10.0	<10.0	<10.0	<10.0	—	—	<10.0	<10.0	—	—	12	<10.0
	Nov-96	34.0	<10.0	<10.0	<10.0	25.0	34.0	<10.0	<10.0	—	—	<10.0	<10.0	<10.0	15.0	---	---	<10.0	<10.0	---	---	13.0	14.0
	Mar-97	16.0	<10.0	<10.0	<10.0	15.0	<10.0	<10.0	<10.0	---	---	<10.0	<10.0	12.0	<10.0	—	—	<10.0	<10.0	—	—	16.0	17.0
	Oct-97	20.6	<10.0	<10.0	<10.0	40.0	<10.0	<10.0	<10.0	—	—	<10.0	<10.0	<10.0	<10.0	---	---	<10.0	<10.0	—	—	21.5	15.0
	May-98	45.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	—	—	<10.0	<10.0	<10.0	<10.0	---	—	<10.0	<10.0	---	—	15.0	14.0
	Dec-98	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	well destroyed		---	—	<25.0	<25.0	<25.0	<25.0	---	—	<25.0	<25.0	—	—	<25.0	<25.0
	Jun-99	34	---	<10	<10	25	12	---	---	—	—	<10	<10	—	—	—	—	55	—	—	—	14	11
	Jul-99	---	---	---	---	—	—	—	—	29	<10	—	—	14	<10	---	---	---	---	---	---	---	---
	Dec-99	16	<10	<10	<10	24	14	---	---	<10	<10	<10	<10	<10	<10	—	—	<10	<10	—	—	14	10
	Jun-00	32	<10	<10	<10	19	17	---	—	<10	<10	76	<10	—	—	—	—	<24	<10	—	—	14	<10
	Dec-00	<10	<10	<10	<10	19	16	—	—	<10	<10	150	<10	210	<10	---	---	<10	<10	—	—	19	14
	Jun-01	50	<10	<10	<10	30	13	---	—	<10	<10	60	<10	85	<10	—	—	<10	<10	—	—	13	<10
	Dec-01	33	<10	<10	<10	31	15	—	—	<10	<10	11	<10	200	n/m	---	---	26	<10	—	—	17	12
	Jun-02	16	<10	<10	n/m	24	16	---	---	<10	<10	14	<10	n/m	n/m	—	—	12	<10	---	—	20	17
	Dec-02	14	<10	<10	<10	21	13	—	—	11	<10	<10	<10	27	14	---	---	<10	<10	—	—	25	<10
	Jun-03	<10	<10	<10	<10	24	23	—	---	<10	<10	<10	<10	12	10	—	---	<10	<10	---	---	16	10
	Dec-03	87	<10	<10	<10	21	16	---	—	<10	<10	65	<10	13	<10	—	—	<10	<10	—	—	16	10
	Jun-04	91	<10	<10	<10	24	18	—	---	<10	<10	<10	<10	---	—	48	<10	---	---	<10	<10	26	19
	Dec-04	7.4	<5	<5	<5	19	17	—	—	<5	<5	47	<5	---	---	25	5.7	---	—	<5	<5	20	16
	Jun-05	—	—	—	---	---	---	---	---	---	---	---	—	—	---	—	---	---	---	---	—	—	—
	Dec-05	---	—	—	—	—	—	—	—	---	—	---	---	---	---	---	---	—	—	—	---	---	---
	Jun-06	---	---	---	---	---	---	---	—	—	—	—	—	—	—	—	—	—	—	—	---	---	---
Copper (10 ug/L)	Sep-94	109.0	—	7.0	—	<5.0	—	<5.0	---	---	---	598.0	---	119.0	---	—	---	<5.0	---	---	—	73.0	—
1000 (log value = 3)	Dec-94	44.0	---	<5.0	---	<5.0	---	<5.0	—	—	—	113.0	—	14.0	—	—	—	43.0	—	---	---	7.3	---
841	Feb-95	150.0	—	<5.0	---	<5.0	---	<5.0	---	---	—	75.0	—	9.9	—	—	—	50.0	---	---	---	5.2	—
	Mar-95	17.0	---	<5.0	---	<5.0	---	<5.0	---	---	—	58.0	—	13.0	—	—	—	11.0	---	---	—	6.8	—
	Nov-95	20.0	<5.0	<5.0	<5.0	7.0	<5.0	11.0	<5.0	—	—	145.0	<5.0	<5.0	<5.0	—	—	7.0	<5.0	—	---	<5.0	<5.0
	Jun-96	62.0	<5.0	<5.0	<5.0	50	<5.0	6	<5.0	---	—	8.7	<5.0	<5.0	<5.0	—	---	<5.0	<5.0	—	—	<5.0	<5.0
	Nov-96	73.0	<5.0	<5.0	<5.0	50.0	<5.0	<5.0	<5.0	---	---	10.0	<5.0	<5.0	<5.0	---	—	<5.0	<5.0	—	---	<5.0	<5.0
	Mar-97	<5.0	<5.0	<5.0	<5.0	50.0	<5.0	<5.0	<5.0	—	—	<5.0	<5.0	<5.0	<5.0	—	---	<5.0	<5.0	—	—	<5.0	<5.0
	Oct-97	27.0	<5.0	<5.0	<5.0	16.0	<5.0	<5.0	<5.0	—	---	<5.0	<5.0	<5.0	<5.0	—	---	<5.0	<5.0	---	—	<5.0	<5.0
	May-98	30.0	<5.0	<5.0	<5.0	6.0	<5.0	<5.0	<5.0	—	—	<5.0	<5.0	<5.0	<5.0	—	—	<5.0	<5.0	—	---	<5.0	<5.0
	Dec-98	60.0	7.0	<5.0	<5.0	8.0	<5.0	well destroyed		---	—	<5.0	<5.0	<5.0	<5.0	---	---	<5.0	<5.0	—	—	<5.0	<5.0
	Jun-99	69.0	—	<5.0	<5.0	23.0	<5.0	---	---	---	---	10.0	<5.0	---	---	---	---	43.0	—	—	—	<5.0	<5.0
	Jul-99	—	—	—	—	—	—	—	—	89.0	<5	---	---	30.0	6.0	—	—	—	---	---	—	—	—
	Dec-99	30	5	5	5	30	5	---	---	5	5	6	5	5	5	---	---	5	5	—	---	5	5

TABLE 1
Inorganic Constituents Detected in Groundwater
December 2006 Appendix II Assessment Monitoring
City of Durham Closed Landfill

Constituent (PQL [1]) / NC 2L Standard, ug/L [2] / *Prop. BKGD., ug/L* [3]	DATE SAMPLED	MONITOR WELLS																					
		P-6 (BKGD.)		MW-2		MW-3		MW-4		MW-4R		MW-5		MW-6		MW-6R		MW-7		MW-7R		MW-8	
		Total	Diss.	Total	Diss.	Total	Diss.	Total	Diss.	Total	Diss.	Total	Diss.	Total	Diss.	Total	Diss.	Total	Diss.	Total	Diss.	Total	Diss.
		ug/L		ug/L		ug/L		ug/L		ug/L		ug/L		ug/L		ug/L		ug/L		ug/L		ug/L	
Copper (continued)	Jun-00	101	5	5	5	12	5	—	—	5	5	5	7	—	—	—	—	17	5	—	—	5	5
	Dec-00	48	5	5	5	<5	5	—	—	5	5	185	19	34	<5	—	—	<5	<5	—	—	<5	<5
	Jun-01	95	<5	<5	<5	20	n/m	—	—	<5	<5	157	<5	28	n/m	—	—	<5	<5	—	—	<5	<5
	Dec-01	28	<5	<5	<5	13	<5	—	—	<5	<5	29	<5	15	n/m	—	—	14	<5	—	—	<5	<5
	Jun-02	30	<5	<5	n/m	10	<5	—	—	<5	<5	9	<5	20	n/m	—	—	5	<5	—	—	7	7
	Dec-02	16	<5	<5	<5	15	7	—	—	20	<5	10	<5	16	<5	—	—	10	<5	—	—	23	<5
	Jun-03	52	<5	<5	<5	16	<5	—	—	<5	<5	<5	<5	14	6	—	—	5	<5	—	—	8	<5
	Dec-03	92	<5	<5	<5	7	<5	—	—	6	<5	69	<5	26	<8	—	—	6	<5	—	—	7	<5
	Jun-04	211	<5	5	<5	6	<5	—	—	<5	<5	25	<5	—	—	75	<5	—	—	12	<5	5	<5
	Dec-04	7	<5	<5	<5	<5	<5	—	—	<5	<5	92	<5	—	—	39	8	—	—	<5	<5	6	<5
	Jun-05	28	<2	<2	<2	<2	<2	—	—	<2	<2	16	<2	—	—	8	<2	—		11	<2	<2	<2
	Dec-05	<2	<2	4	<2	10	<2	—	—	4	2	24	<2			3	<2			<2	<2	<2	<2
	Jun-06	6	2	3	<2	4	<2	—	—	3	<2	67	<2	—	—	14	2	—	—	7	<2	4	3
Cyanide[5] (200 ug/L)	Jun-99	<2	—	2	—	<2	—	—	—	—	—	<2	—	—	—	—	—	<2	—	—	—	<2	—
70	Jul-99	—	—	—	—	—	—	—	—	<2	—	—	—	3	—	—	—	—	—	—	—	—	—
5	Dec-99	<2	—	<2	—	<2	—	—	—	<2	—	<2	—	<2	—	—	—	<2	—	—	—	<2	—
	Jun-00	<2	—	<2	—	<2	—	—	—	<2	—	<2	—	—	—	—	—	<2	—	—	—	<2	—
	Dec-00	<2	—	<2	—	<2	—	—	—	<2	—	<2	—	5	—	—	—	<2	—	—	—	<2	—
	Jun-01	<2	—	<2	—	<2	—	—	—	<3.0	—	<6.0	—	3	—	—	—	<2	—	—	—	<2	—
	Dec-01	<2	—	<2	—	<2	—	—	—	<2	—	<2	—	n/m	—	—	—	<2	—	—	—	<2	—
	Jun-02	<2	—	<2	n/m	<2	—	—	—	<2	—	<2	—	n/m	—	—	—	3	—	—	—	<2	—
	Dec-02	<2	—	<2	—	<2	—	—	—	<2	—	<2	—	<2	—	—	—	<2	—	—	—	<2	—
	Jun-03	<2	—	<2	—	5	—	—	—	<2	—	<2	—	<2	—	—	—	<2	—	—	—	<2	—
	Dec-03	<2	—	<2	—	<2	—	—	—	<2	—	<2	—	<2	—	—	—	<2	—	—	—	<2	—
	Jun-04	<2	—	<2	—	<2	—	—	—	<2	—	<2	—	—	—	<2	—	—	—	2	—	<2	—
	Dec-04	<2	—	<2	—	17	—	—	—	<2	—	<2	—	—	—	<2	—	—	—	<2	—	<2	—
	Jun-05	2.3	—	<2	—	<2	—	—	—	<2	—	<2	—	—	—	<2	—	—	—	<2	—	2.6	—
	Dec-05	5.0	—	4.3	—	3.1	—	—	—	5.0	—	5.4	—	—	—	2.8	—	—	—	5.8	—	3.7	—
	Jun-06	3.6	—	1.9J	—	1.9J	—	—	—	1.8J	—	2.5	—	—	—	1.6J	—	—	—	<2	—	2.2	—

TABLE 1
Inorganic Constituents Detected in Groundwater
December 2006 Appendix II Assessment Monitoring
City of Durham Closed Landfill

Constituent (PQL [1])	DATE	MONITOR WELLS																					
		P-6 (BKGD.)		MW-2		MW-3		MW-4		MW-4R		MW-5		MW-6		MW-6R		MW-7		MW-7R		MW-8	
NC 2L Standard, ug/L [2]		Total	Diss.	Total	Diss.	Total	Diss.	Total	Diss.	Total	Diss.	Total	Diss.	Total	Diss.	Total	Diss.	Total	Diss.	Total	Diss.	Total	Diss.
Prop. BKGD., ug/L [3]	SAMPLED	ug/L		ug/L		ug/L		ug/L		ug/L		ug/L		ug/L		ug/L		ug/L		ug/L		ug/L	
Lead[4] (10 ug/L)	Sep-94	**40.0**	—	<5.0	—	<5.0	—	<5.0	---	---	---	**199.0**	---	**46.0**	---	—	—	8.8	—	—	—	**47.0**	---
15 (log value = 1.2)	Dec-94	**30.0**	—	14.0	—	6.6	—	<5.0	---	---	---	**77.0**	---	**19.0**	—	---	---	**53.0**	—	—	—	10.0	---
log value = 462.7	Feb-95	**76.0**	---	7.8	---	6.3	---	7.0	---	---	---	**63.0**	—	7.1	—	—	—	**34.0**	—	---	---	12.0	---
	Mar-95	11.0	—	<5.0	—	<5.0	—	<5.0	—	—	—	**35.0**	—	12.0	---	---	---	14.0	---	—	—	**63.0**	—
	Nov-95	14.0	<5.0	<5.0	<5.0	12.0	<5.0	5.0	<5.0	---	---	**60.0**	<5.0	<5.0	<5.0	---	---	9.0	<5.0	—	—	<5.0	<5.0
	Jun-96	**25.0**	<5.0	<5.0	<5.0	**42.0**	<5.0	<5.0	<5.0	—	—	<5.0	<5.0	<5.0	<5.0	—	—	<5.0	<5.0	---	---	<5.0	<5.0
	Nov-96	**30.0**	<5.0	<5.0	<5.0	**29.0**	<5.0	<5.0	<5.0	---	---	8.0	<5.0	<5.0	<5.0	—	—	10.0	<5.0	---	---	<5.0	<5.0
	Mar-97	<5.0	<5.0	<5.0	<5.0	8.0	<5.0	<5.0	<5.0	—	---	<5.0	<5.0	<5.0	<5.0	---	---	10.0	<5.0	—	—	<5.0	<5.0
	Oct-97	**16.0**	<5.0	<5.0	<5.0	**55.0**	<5.0	<5.0	<5.0	—	—	**14.0**	<5.0	<5.0	<5.0	—	—	**22.0**	<5.0	---	---	7.0	<5.0
	May-98	11.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	---	---	<5.0	<5.0	<5.0	<5.0	---	---	<5.0	<5.0	—	—	<5.0	<5.0
	Dec-98	**36.0**	<5.0	<5.0	<5.0	8.0	<5.0	well destroyed		---	---	<5.0	<5.0	<5.0	<5.0	—	—	8.0	<5.0	---	---	<5.0	<5.0
	Jun-99	19	---	<5	<5	**29**	<5	—	—	—	—	8	5	—	—	—	—	**54**	---	—	—	<5	<5
	Jul-99	---	---	---	---	—	---	—	—	**29**	<5	—	—	**30**	<5	—	—	—	---	—	—	—	—
	Dec-99	14	<5	<5	<5	**33**	<5	—	—	<5	<5	<5	<5	<5	<5	---	---	<5	<5	—	—	<5	<5
	Jun-00	**37**	<5	<5	<5	12	<5	—	—	<5	<5	**16**	<5	—	—	—	—	**28**	<5	---	---	<5	<5
	Dec-00	**20**	<5	10	<5	<5	<5	—	---	<5	<5	**82**	8	**52**	<5	---	---	<5	<5	—	—	<5	<5
	Jun-01	**35**	<5	8	<5	**20**	n/m	—	—	<5	<5	**68**	<5	**21**	n/m	—	—	<5	<5	—	—	<5	<5
	Dec-01	**23**	<5	<5	<5	**13**	<5	---	---	<5	<5	**23**	<5	**36**	n/m	---	---	**30**	<5	—	---	<5	<5
	Jun-02	6	5	<5	n/m	10	9	---	---	<5	<5	7	<5	13	n/m	—	—	<5	<5	---	—	<5	<5
	Dec-02	<5	<5	5	<5	11	<5	---	---	8	<5	<5	<5	8	<5	---	---	5	<5	—	---	12	<5
	Jun-03	<5	<5	<5	<5	24,000	<5	—	—	<5	<5	<5	<5	<5	<5	---	---	8	<5	—	—	<5	<5
	Dec-03	35	<5	<5	<5	<6.0	<5	---	---	<5	<5	47.0	<5	14.0	<5	---	—	8.0	<5	—	---	<5	<5
	Jun-04	**83**	<5	<5	<5	<5	<5	—	—	**28**	<5	11	<5	—	—	**51**	<5	---	—	6	<5	<5	<5
	Dec-04	<5	<5	<5	<5	5	<5	---	---	<5	<5	**75**	<5	---	---	**19**	<5	—	—	<5	<5	<5	<5
	Jun-05	13	<5	<5	<5	<5	<5	—	—	<5	<5	39	<5	—	---	<5	<5	---	—	7	<5	<5	<5
	Dec-05	<5	<5	<5	<5	9.0	<5	---	---	<5	<5	13	<5	---	---	<5	<5	—	—	<5	<5	<5	<5
	Jun-06	<5	<5	<5	<5	<5	<5	—	—	<5	<5	38	<5	—	—	6	<5	---	---	<5	<5	<5	<5
Nickel[4] (150 ug/L)	Sep-94	17	—	15.0	---	<10.0	---	<10.0	---	---	---	468.0	---	13.0	---	---	—	13.0	—	—	---	77.0	—
100 (log value = 2)	Dec-94	56	—	<10.0	—	10.0	—	<10.0	—	—	—	96.0	—	35.0	—	—	—	55.0	---	—	—	14.0	---
log value = 587.48	Feb-95	**211**	---	<10.0	---	<10.0	---	<10.0	—	—	—	64.0	—	26.0	---	---	---	31.0	—	—	---	<10.0	—
	Mar-95	30	—	<10.0	—	9.1	—	<10.0	—	—	—	61.0	—	40.0	---	---	---	25.0	—	—	---	11.0	—
	Nov-95	32	<10.0	<10.0	<10.0	15.0	<10.0	<10.0	<10.0	—	—	68.0	<10.0	28.0	25.0	---	—	16.0	<10.0	---	---	<10.0	<10.0
	Jun-96	49	<10.0	<10.0	<10.0	22	<10.0	<10.0	<10.0	---	---	<10.0	<10.0	100	64	—	—	<10.0	<10.0	—	—	<10.0	<10.0
	Nov-96	**103**	<10.0	<10.0	<10.0	24.0	<10.0	49.0	<10.0	---	---	12.0	<10.0	10.0	<10.0	---	—	<10.0	<10.0	---	—	<10.0	<10.0
	Mar-97	50	<10.0	<10.0	<10.0	16.0	<10.0	<10.0	<10.0	—	—	<10.0	<10.0	29.0	20.0	---	---	<10.0	<10.0	—	---	<10.0	<10.0
	Oct-97	52	<10.0	<10.0	<10.0	18.0	<10.0	<10.0	<10.0	---	---	<10.0	<10.0	11.0	<10.0	—	—	<10.0	<10.0	—	—	<10.0	<10.0
	May-98	43	<10.0	<10.0	<10.0	19.0	15.0	11.0	<10.0	—	—	<10.0	<10.0	23.0	15.0	—	---	<10.0	<10.0	—	---	<10.0	<10.0
	Dec-98	**124**	88.0	<10.0	<10.0	12.0	11.0	well destroyed		---	---	<10.0	<10.0	10.0	11.0	—	—	<10.0	<10.0	—	—	<10.0	<10.0
	Jun-99	**126**	—	<10	<10	35	12	—	—	—	—	16	<10	—	—	---	---	34	—	—	---	<10	<10
	Jul-99	---	---	---	---	---	---	---	---	37	<10	---	---	57	11	—	—	---	---	—	—	—	---
	Dec-99	**227**	40	10	<10	64	13	—	—	<10	<10	<10	<10	44	17	---	—	<10	<10	---	—	<10	<10

TABLE 1
Inorganic Constituents Detected in Groundwater
December 2006 Appendix II Assessment Monitoring
City of Durham Closed Landfill

Constituent (PQL [1])	DATE	MONITOR WELLS																					
NC 2L Standard, ug/L [2]		P-6 (BKGD.)		MW-2		MW-3		MW-4		MW-4R		MW-5		MW-6		MW-6R		MW-7		MW-7R		MW-8	
Prop. BKGD., ug/L [3]	SAMPLED	Total	Diss.	Total	Diss.	Total	Diss.	Total	Diss.	Total	Diss.	Total	Diss.	Total	Diss.	Total	Diss.	Total	Diss.	Total	Diss.	Total	Diss.
		ug/L		ug/L		ug/L		ug/L		ug/L		ug/L		ug/L		ug/L		ug/L		ug/L		ug/L	
Nickel (Continued)	Jun-00	343	12	<10	<10	37	33	—	—	<10	<10	13	<10	—	—	—	—	25	<10	—	—	<10	<10
	Dec-00	144	18	<10	<10	14	10	—	—	<10	<10	132	<10	34	<10	—	—	<10	<10	—	—	<10	<10
	Jun-01	88	<10	<10	<10	13	n/m	—	—	11	<10	20	<5	13	n/m	—	—	<10	<10	—	—	<10	<10
	Dec-01	54	14	<10	<10	21	12	—	—	<10	<10	19	<10	34	n/m	—	—	16	<10	—	—	<10	<10
	Jun-02	21		<10	n/m	16		—	—	<10		<10		27		—	—	<10		—	—	<10	
	Dec-02	33	<10	<10	<10	19	10	—	—	<10	<10	<10	<10	25	<10	—	—	<10	<10	—	—	14	<10
	Jun-03	26	12	<10	<10	23	13	—	—	<10	<10	<10	<10	19	12	—	—	<10	<10	—	—	11	<10
	Dec-03	99	<10	<10	<10	13	<10	—	—	<10	<10	29	<10	36	19	—	—	<10	<10	—	—	<10	<10
	Jun-04	130	13	12	<10	15	13	—	—	<10	<10	14	<10	—	—	10	<10	—	—	10	<10	<10	<10
	Dec-04	10	<10	<10	<10	<10	<10	—	—	<10	<10	46	<10	—	—	37	12	—	—	10	<10	<10	<10
	Jun-05	35	<10	<10	<10	<10	<10	—	—	<10	<10	13	<10	—	—	18	12	—	—	11	<10	<10	<10
	Dec-05	<10	<10	10	<10	19	19	—	—	<10	<10	15	<10	—	—	18	11	—	—	<10	<10	<10	<10
	Jun-06	61	50	<10	<10	21	<10	—	—	<10	<10	33	18	—	—	19	15	—	—	<10	<10	<10	<10
Selenium (20 ug/L)	Sep-94	<5.0	—	<5.0	—	<5.0	—	<5.0	—	—	—	<5.0	—	<5.0	—	—	—	<5.0	—	—	—	<5.0	—
50	Dec-94	<5.0	—	7.6	—	<5.0	—	<5.0	—	—	—	<5.0	—	<5.0	—	—	—	<5.0	—	—	—	<5.0	—
5	Feb-95	<5.0	—	<5.0	—	<5.0	—	<5.0	—	—	—	<5.0	—	<5.0	—	—	—	<5.0	—	—	—	<5.0	—
	Mar-95	<5.0	—	<5.0	—	<5.0	—	<5.0	—	—	—	<5.0	—	<5.0	—	—	—	<5.0	—	—	—	<5.0	—
	Nov-95	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	—	—	<5.0	<5.0	<5.0	<5.0	—	—	<5.0	<5.0	—	—	<5.0	<5.0
	Jun-96	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	—	—	<5.0	<5.0	<5.0	<5.0	—	—	<5.0	<5.0	—	—	<5.0	<5.0
	Nov-96	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	—	—	<5.0	<5.0	<5.0	<5.0	—	—	<5.0	<5.0	—	—	<5.0	<5.0
	Mar-97	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	—	—	<5.0	<5.0	<5.0	<5.0	—	—	<5.0	<5.0	—	—	<5.0	<5.0
	Oct-97	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	—	—	<5.0	<5.0	<5.0	<5.0	—	—	<5.0	<5.0	—	—	<5.0	<5.0
	May-98	<5.0	<5.0	<5.0	<5.0	9.0	8.0	<5.0	<5.0	—	—	<5.0	<5.0	<5.0	<5.0	—	—	<5.0	<5.0	—	—	<5.0	<5.0
	Dec-98	<5.0	<5.0	<5.0	<5.0	<5.0	7.0	well destroyed		—	—	<5.0	<5.0	<5.0	<5.0	—	—	<5.0	<5.0	—	—	<5.0	<5.0
	Jun-99	<5	—	<5	<5	<5	<5	—	—	—	—	<5	<5	—	—	—	—	<5	—	—	—	<5	<5
	Jul-99	—	—	—	—	—	—	—	—	<5	<5	—	—	<5	<5	—	—	—	—	—	—	—	—
	Dec-99	<5	<5	<5	<5	<5	<5	—	—	<5	<5	<5	<5	<5	<5	—	—	<5	<5	—	—	<5	<5
	Jun-00	<5	<5	<5	<5	<5	<5	—	—	<5	<5	<5	<5	—	—	—	—	<5	<5	—	—	<5	<5
	Dec-00	5	5	5	5	5	5	—	—	5	5	5	5	<5	<5	—	—	5	5	—	—	5	5
	Jun-01	<5	<5	<5	<5	<5	n/m	—	—	<5	<5	<5	<5	<5	n/m	—	—	<5	<5	—	—	<5	<5
	Dec-01	<5	<5	<5	<5	9	6	—	—	<5	<5	<5	<5	<5	n/m	—	—	<5	<5	—	—	<5	<5
	Jun-02	<5	<5	<5	n/m	9	<5	—	—	<5	<5	<5	<5	<5	n/m	—	—	<5	<5	—	—	<5	<5
	Dec-02	<5	<5	<5	<5	6	<5	—	—	<5	<5	<5	<5	<5	<5	—	—	<5	<5	—	—	<5	<5
	Jun-03	<5	<5	<5	<5	<5	<5	—	—	<5	<5	<5	<5	<5	<5	—	—	<5	<5	—	—	<5	<5
	Dec-03	<5	<5	<5	<5	<5	<5	—	—	<5	<5	<5	<5	<5	<5	—	—	<5	<5	—	—	<5	<5
	Jun-04	<5	<5	<5	<5	<5	<5	—	—	<5	<5	<5	<5	—	—	<5	<5	—	—	<5	<5	<5	<5
	Dec-04	<5	<5	<5	<5	<5	<5	—	—	<5	<5	<5	<5	—	—	<5	<5	—	—	<5	<5	<5	<5
	Jun-05	<5	<5	<5	<5	<5	<5	—	—	<5	<5	<5	<5	—	—	<5	<5	—	—	<5	<5	<5	<5
	Dec-05	<5	<5	<5	<5	<5	<5	—	—	<5	<5	<5	<5	—	—	<5	<5	—	—	<5	<5	<5	<5
	Jun-06	<5	<5	<5	<5	<5	5	—	—	<5	<5	<5	<5	—	—	<5	<5	—	—	<5	<5	<5	<5

Inorganic Constituents Detected in Groundwater
December 2006 Appendix II Assessment Monitoring
City of Durham Closed Landfill

Constituent (PQL [1])	DATE	MONITOR WELLS																					
		P-6 (BKGD.)		MW-2		MW-3		MW-4		MW-4R		MW-5		MW-6		MW-6R		MW-7		MW-7R		MW-8	
NC 2L Standard, ug/L [2]		Total	Diss.	Total	Diss.	Total	Diss.	Total	Diss.	Total	Diss.	Total	Diss.	Total	Diss.	Total	Diss.	Total	Diss.	Total	Diss.	Total	Diss.
Prop. BKGD., ug/L [3]	SAMPLED	ug/L		ug/L		ug/L		ug/L		ug/L		ug/L		ug/L		ug/L		ug/L		ug/L		ug/L	
Silver (10 ug/L)	Sep-94	<1.0	---	<1.0	---	<1.0	---	<1.0	---	---	---	<1.0	---	2.2	---	---	---	<1.0	---	---	---	<1.0	---
18	Dec-94	<1.0	---	<1.0	---	<1.0	---	<1.0	---	---	---	<1.0	---	<1.0	---	---	---	<1.0	---	---	---	<1.0	---
8	Feb-95	<1.0	---	<1.0	---	<1.0	---	<1.0	---	---	---	<1.0	---	<1.0	---	---	---	<1.0	---	---	---	<1.0	---
	Mar-95	<1.0	---	<1.0	---	<1.0	---	<1.0	---	---	---	<1.0	---	<1.0	---	---	---	<1.0	---	---	---	<1.0	---
	Nov-95	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	---	---	<1.0	<1.0	<1.0	<1.0	---	---	<1.0	<1.0	---	---	<1.0	<1.0
	Jun-96	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	---	---	<1.0	<1.0	<1.0	<1.0	---	---	<1.0	<1.0	---	---	<1.0	<1.0
	Nov-96	5.0	<1.0	2.0	<1.0	<1.0	<1.0	<1.0	<1.0	---	---	<1.0	<1.0	<1.0	<1.0	---	---	<1.0	<1.0	---	---	<1.0	<1.0
	Mar-97	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	---	---	<1.0	<1.0	7.0	<1.0	---	---	<1.0	<1.0	---	---	<1.0	<1.0
	Oct-97	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	---	---	<1.0	<1.0	<1.0	<1.0	---	---	<1.0	<1.0	---	---	<1.0	<1.0
	May-98	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	---	---	<1.0	<1.0	<1.0	<1.0	---	---	<1.0	<1.0	---	---	1.0	<1.0
	Dec-98	1.0	<1.0	<1.0	<1.0	<1.0	<1.0	well destroyed		---	---	<1.0	<1.0	<1.0	<1.0	---	---	2.0	<1.0	---	---	<1.0	<1.0
	Jun-99	<1	---	<1	<1	<1	<1	---	---	---	---	<1	<1	---	---	---	---	<1	---	---	---	<1	<1
	Jul-99	---	---	---	---	---	---	---	---	<1	<1	---	---	<1	<1	---	---	---	---	---	---	---	---
	Dec-99	<1	<1	10	<1	<1	<1	---	---	<5	<1	<1	<1	<1	<1	---	---	1	<1	---	---	<1	<1
	Jun-00	<1	<1	<1	<1	1	<1	---	---	<1	<1	<1	<1	---	---	---	---	<1	<1	---	---	<1	<1
	Dec-00	<1	<1	<1	<1	<1	<1	---	---	<1	<1	2	<1	2	<1	---	---	<1	<1	---	---	<1	<1
	Jun-01	<1	<1	3	1	1	n/m	---	---	<1	<1	2	<1	1	n/m	---	---	<1	<1	---	---	<1	<1
	Dec-01	<1	<1	<1	<1	1	<1	---	---	<1	<1	<1	<1	<1	n/m	---	---	<1	<1	---	---	<1	<1
	Jun-02	<1	<1	<1	n/m	1	<1	---	---	<1	<1	<1	<1	<1	n/m	---	---	<1	<1	---	---	<1	<1
	Dec-02	<1	<1	<1	<1	<1	<1	---	---	1	<1	<1	<1	<1	<1	---	---	<1	<1	---	---	<1	<1
	Jun-03	<1	<1	<1	<1	<1	<1	---	---	<1	<1	<1	<1	<1	<1	---	---	<1	<1	---	---	<1	<1
	Dec-03	<1	<1	<1	<1	<1	<1	---	---	<1	<1	3	<1	<1	<1	---	---	<1	<1	---	---	<1	<1
	Jun-04	8	<1	1	<1	<1	<1	---	---	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
	Dec-04	<1	<1	1	<1	<1	<1	---	---	<1	<1	<1	<1	---	---	<1	<1	---	---	<1	<1	<1	<1
	Jun-05	<1	<1	<1	<1	<1	<1	---	---	<1	<1	<1	<1	---	---	<1	<1	---	---	2.0	<1	<1	<1
	Dec-05	<1	<1	<1	<1	<1	<1	---	---	<1	<1	<1	<1	---	---	<1	<1	---	---	<1	<1	<1	<1
	Jun-06	<1	<1	<1	<1	<1	<1	---	---	<1	<1	1.0	<1	---	---	<1	<1	---	---	<1	<1	<1	<1
Sulfide[5] (4000 ug/L)	Jun-99	<1300	---	<200	---	200	---	---	---	---	---	300	---	---	---	---	---	200	---	---	---	200	---
n/a	Jul-99	---	---	---	---	---	---	---	---	300	---	---	---	500	---	---	---	---	---	---	---	---	---
16000	Dec-99	1400	---	600	---	1800	---	---	---	900	---	400	---	600	---	---	---	200	---	---	---	200	---
	Jun-00	400	---	100	---	300	---	---	---	600	---	500	---	---	---	---	---	<100	---	---	---	100	---
	Dec-00	400	---	300	---	720	---	---	---	290	---	520	---	880	---	---	---	350	---	---	---	260	---
	Jun-01	600	---	400	---	200	---	---	---	400	---	200	---	600	---	---	---	300	---	---	---	300	---
	Dec-01	<400	---	<200	---	<200	---	---	---	<200	---	<200	---	n/m	---	---	---	500	---	---	---	<200	---
	Jun-02	<200	---	<200	n/m	1000	---	---	---	<200	---	<200	---	n/m	---	---	---	<200	---	---	---	<200	---
	Dec-02	<200	---	300	---	<200	---	---	---	<200	---	<200	---	<200	---	---	---	<200	---	---	---	<200	---
	Jun-03	<200	---	<200	---	<200	---	---	---	<200	---	<200	---	<200	---	---	---	<200	---	---	---	1600	---
	Dec-03	2000	---	<2000	---	16000	---	---	---	12000	---	<2000	---	3800	---	---	---	<2000	---	---	---	<2000	---
	Jun-04	<2000	---	<2000	---	<2000	---	---	---	<2000	---	<2000	---	---	---	<2000	---	---	---	<2000	---	<2000	---
	Dec-04	<2000	---	<2000	---	<2000	---	---	---	<2000	---	<2000	---	---	---	<2000	---	---	---	<2000	---	<2000	---
	Jun-05	13000	---	<2000	---	<2000	---	---	---	12000	---	<2000	---	---	---	12000	---	---	---	14000	---	15000	---
	Dec-05	<2000	---	<2000	---	<2000	---	---	---	<2000	---	<2000	---	---	---	<2000	---	---	---	<2000	---	<2000	---
	Jun-06	<2000	---	<2000	---	<2000	---	---	---	<2000	---	11000	---	---	---	<2000	---	---	---	<2000	---	<2000	---

TABLE 1
Inorganic Constituents Detected in Groundwater
December 2006 Appendix II Assessment Monitoring
City of Durham Closed Landfill

Constituent (PQL [1])	DATE SAMPLED	MONITOR WELLS																					
NC 2L Standard, ug/L [2]		P-6 (BKGD.)		MW-2		MW-3		MW-4		MW-4R		MW-5		MW-6		MW-6R		MW-7		MW-7R		MW-8	
Prop. BKGD., ug/L [3]		Total	Diss.	Total	Diss.	Total	Diss.	Total	Diss.	Total	Diss.	Total	Diss.	Total	Diss.	Total	Diss.	Total	Diss.	Total	Diss.	Total	Diss.
		ug/L		ug/L		ug/L		ug/L		ug/L		ug/L		ug/L		ug/L		ug/L		ug/L		ug/L	
Thallium (10 ug/L)	Sep-94	<5.0	—	<5.0	—	<5.0	—	<5.0	—	—	—	6.1	—	<5.0	—	—	—	<5.0	—	—	—	<5.0	—
n/a	Dec-94	<5.0	—	<5.0	—	<5.0	—	<5.0	—	—	—	<5.0	—	<5.0	—	—	—	<5.0	—	—	—	<5.0	—
2	Feb-95	<5.0	—	<5.0	—	<5.0	—	<5.0	—	—	—	<5.0	—	<5.0	—	—	—	<5.0	—	—	—	<5.0	—
	Mar-95	<5.0	—	<5.0	—	<5.0	—	<5.0	—	—	—	<5.0	—	<5.0	—	—	—	<5.0	—	—	—	<5.0	—
	Nov-95	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	—	—	<5.0	<5.0	<5.0	<5.0	—	—	<5.0	<5.0	—	—	<5.0	<5.0
	Jun-96	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	—	—	<5.0	<5.0	<5.0	<5.0	—	—	<5.0	<5.0	—	—	<5.0	<5.0
	Nov-96	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	—	—	<5.0	<5.0	<5.0	<5.0	—	—	<5.0	<5.0	—	—	<5.0	<5.0
	Mar-97	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	—	—	<5.0	<5.0	<5.0	<5.0	—	—	<5.0	<5.0	—	—	<5.0	<5.0
	Oct-97	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	—	—	<5.0	<5.0	<5.0	<5.0	—	—	<5.0	<5.0	—	—	<5.0	<5.0
	May-98	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	—	—	<5.0	<5.0	<5.0	<5.0	—	—	<5.0	<5.0	—	—	<5.0	<5.0
	Dec-98	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	well destroyed		—	—	<5.0	<5.0	<5.0	<5.0	—	—	<5.0	<5.0	—	—	<5.0	<5.0
	Jun-99	<1	—	<5	<1	<1	<1	—	—	—	—	<1	<1	—	—	—	—	<5	—	—	—	<1	<1
	Jul-99	—	—	—	—	—	—	—	—	<1	<1	—	—	<1	<1	—	—	—	—	—	—	—	—
	Dec-99	<1	<1	<1	<1	<1	<1	—	—	<1	<1	<1	<1	<1	<1	—	—	<1	<1	—	—	<1	<1
	Jun-00	<1	<1	<1	<1	<1	<1	—	—	<1	<1	<1	<1	—	—	—	—	<1	<1	—	—	<1	<1
	Dec-00	<1	<1	<1	<1	<1	<1	—	—	<1	<1	1	<1	<1	<1	—	—	<1	<1	—	—	<1	<1
	Jun-01	<1	<1	<1	<1	<1	n/m	—	—	<1	<1	1	<1	<1	n/m	—	—	<1	<1	—	—	<1	<1
	Dec-01	<1	<1	<1	<1	<1	<1	—	—	<1	<1	<1	<1	<1	n/m	—	—	<1	<1	—	—	<1	<1
	Jun-02	<1	<1	<1	n/m	<1	<1	—	—	<1	<1	<1	<1	<1	n/m	—	—	<1	<1	—	—	<1	<1
	Dec-02	<1	<1	<1	<1	<1	<1	—	—	<1	<1	<1	<1	<1	<1	—	—	<1	<1	—	—	<1	<1
	Jun-03	<1	<1	<1	<1	<1	<1	—	—	<1	<1	<1	<1	<1	<1	—	—	<1	<1	—	—	<1	<1
	Dec-03	<1	<1	<1	<1	<1	<1	—	—	<1	<1	<1	<1	<1	<1	—	—	<1	<1	—	—	<1	<1
	Jun-04	2	<1	<1	<1	<1	<1	—	—	<1	<1	<1	<1	—	—	<1	<1	—	—	<1	<1	<1	<1
	Dec-04	<1	<1	<1	<1	<1	<1	—	—	<1	<1	<1	<1	—	—	<1	<1	—	—	<1	<1	<1	<1
	Jun-05	<1	<1	<1	<1	<1	<1	—	—	<1	<1	<1	<1	—	—	<1	<1	—	—	<1	<1	<1	<1
	Dec-05	<1	<1	<1	<1	<1	<1	—	—	<1	<1	<1	<1	—	—	<1	<1	—	—	<1	<1	<1	<1
	Jun-06	<1	<1	<1	<1	<1	<1	—	—	<1	<1	<1	<1	—	—	<1	<1	—	—	<1	<1	<1	<1
Vanadium[4] (40 ug/L)	Sep-94	203.0	—	23.0	—	<5.0	—	<5.0	—	—	—	411.0	—	167.0	—	—	—	16.0	—	—	—	122.0	—
n/a	Dec-94	51.0	—	<5.0	—	<5.0	—	<5.0	—	—	—	124.0	—	6.7	—	—	—	68.0	—	—	—	7.9	—
log value = 629.84	Feb-95	206.0	—	<5.0	—	<5.0	—	<5.0	—	—	—	99.0	—	6.9	—	—	—	37.0	—	—	—	6.0	—
	Mar-95	16.0	—	<5.0	—	<5.0	—	<5.0	—	—	—	85.0	—	6.7	—	—	—	9.7	—	—	—	9.4	—
	Nov-95	37.0	<5.0	<5.0	<5.0	17.0	<5.0	8.0	<5.0	—	—	16.0	<5.0	<5.0	<5.0	—	—	5.0	<5.0	—	—	7.0	<5.0
	Jun-96	50	<5.0	<5.0	<5.0	34	<5.0	67	<5.0	—	—	14	<5.0	<5.0	<5.0	—	—	<5.0	<5.0	—	—	<5.0	<5.0
	Nov-96	141.0	<5.0	<5.0	<5.0	52.0	<5.0	9.0	<5.0	—	—	25.0	<5.0	<5.0	<5.0	—	—	11.0	<5.0	—	—	12.0	<5.0
	Mar-97	141.0	<5.0	<5.0	<5.0	16.0	<5.0	<5.0	<5.0	—	—	<5.0	<5.0	<5.0	<5.0	—	—	<5.0	<5.0	—	—	<5.0	<5.0
	Oct-97	65.0	<5.0	<5.0	<5.0	17.0	<5.0	<5.0	<5.0	—	—	<5.0	<5.0	<5.0	<5.0	—	—	8.5	<5.0	—	—	5.8	<5.0
	May-98	20.0	<5.0	<5.0	<5.0	5.0	<5.0	<5.0	<5.0	—	—	<5.0	<5.0	<5.0	<5.0	—	—	5.0	<5.0	—	—	5.0	<5.0
	Dec-98	110.0	<5.0	<5.0	<5.0	10.0	<5.0	well destroyed		—	—	<5.0	<5.0	<5.0	<5.0	—	—	<5.0	<5.0	—	—	<5.0	<5.0

TABLE 1

Inorganic Constituents Detected in Groundwater
December 2006 Appendix II Assessment Monitoring
City of Durham Closed Landfill

		MONITOR WELLS																					
Constituent (PQL [1])		P-6 (BKGD.)		MW-2		MW-3		MW-4		MW-4R		MW-5		MW-6		MW-6R		MW-7		MW-7R		MW-8	
NC 2L Standard, ug/L [2]	DATE	Total	Diss.	Total	Diss.	Total	Diss.	Total	Diss.	Total	Diss.	Total	Diss.	Total	Diss.	Total	Diss.	Total	Diss.	Total	Diss.	Total	Diss.
Prop. BKGD., ug/L [3]	SAMPLED	ug/L		ug/L		ug/L		ug/L		ug/L		ug/L		ug/L		ug/L		ug/L		ug/L		ug/L	
Vanadium (continued)	Jun-99	45	—	<5	<5	59	<5	---	---	---	---	11	<5	---	---	---	---	45	—	—	—	<5	<5
	Jul-99	---	---	---	---	—	—	—	—	16	<5	—	—	48	<5	—	—	—	---	---	---	—	—
	Dec-99	38	<5	<5	<5	14	<5	—	—	<5	<5	6	<5	<5	<5	—	—	<5	<5	---	---	6	<5
	Jun-00	109	<5	<5	<5	34	<5	—	—	<5	<5	23	9	—	—	—	—	36	<5	---	---	6	<5
	Dec-00	26	<5	<5	<5	11	<5	—	—	<5	<5	44	<5	38	<5	---	---	<5	<5	—	—	<5	<5
	Jun-01	22	<5	<5	<5	<5	n/m	---	---	<5	<5	<5	<5	6	n/m	—	—	<5	<5	—	—	<5	<5
	Dec-01	25	<5	<5	<5	19	<5	---	---	<5	<5	26	<5	38	n/m	---	---	16	<5	—	—	<5	<5
	Jun-02	12	<5	<5	n/m	13	<5	---	---	<5	<5	8	<5	27	n/m	---	---	<5	<5	—	—	9	8
	Dec-02	7.0	<5	<5	<5	<13.0	<5	---	---	<5	<5	<5	<5	<5	<5	---	---	<5	<5	—	—	17.0	<5
	Jun-03	5	<5	<5	<5	<5	<5	---	---	<5	<5	<5	<5	8	<5	---	—	6	<5	—	—	9	<5
	Dec-03	46	<5	<5	<5	8	<5	---	---	<5	<5	43	<5	13	<5	—	—	<5	<5	---	—	5	<5
	Jun-04	59	<5	<5	<5	6	<5	—	---	<1	<5	17	<5	---	---	49	<5	—	—	12	<5	<5	<5
	Dec-04	8	<5	<5	<5	7	<5	---	---	<1	<5	69	<5	---	---	34	<5	---	—	5	<5	5	<5
	Jun-05	27	<5	<5	<5	<5	<5	---	---	<5	<5	17	17	---	---	<5	<5	—	—	17	<5	<5	<5
	Dec-05	<5	<5	<5	<5	14	<5	—	—	<5	<5	16	<5	—	—	<5	<5	—	---	<5	<5	<5	<5
	Jun-06	<5	<5	<5	<5	<5	<5	---	---	<5	<5	42	<5	—	—	9	<5	---	—	7	<5	<5	<5
Zinc[4] (0.50 ug/L)	Sep-94	303.0	—	34.0	—	<10.0	—	<10.0	—	—	—	1030.0	---	445.0	---	—	—	<10.0	---	---	—	207.0	—
1050 (log value =3.3)	Dec-94	106.0	---	<10.0	---	17.0	—	<10.0	—	—	—	202.0	—	169.0	—	—	---	140.0	---	—	—	<10.0	---
log value = 2734.48	Feb-95	477.0	—	<10.0	---	<10.0	---	<10.0	---	---	---	183.0	---	76.0	---	---	—	74.0	—	---	—	70.0	—
	Mar-95	291.0	—	<10.0	—	17.0	—	17.0	—	—	—	185.0	—	150.0	—	—	—	114.0	---	—	—	59.0	---
	Nov-95	65.0	<10.0	<10.0	<10.0	12.0	<10.0	13.0	<10.0	---	---	225.0	<10.0	<10.0	<10.0	---	---	15.0	<10.0	—	---	<10.0	<10.0
	Jun-96	125	<10.0	<10.0	<10.0	69.0	<10.0	<10.0	<10.0	---	---	<10.0	<10.0	<10.0	<10.0	---	—	<10.0	<10.0	---	---	<10.0	<10.0
	Nov-96	134.0	<10.0	<10.0	<10.0	132.0	<10.0	12.0	<10.0	—	—	26.0	<10.0	22.0	44.0	—	---	16.0	<10.0	—	—	11.0	<10.0
	Mar-97	<10.0	<10.0	<10.0	<10.0	30.0	<10.0	<10.0	<10.0	---	---	<10.0	<10.0	<10.0	44.0	---	—	<10.0	<10.0	---	—	<10.0	<10.0
	Oct-97	96.0	<10.0	23.0	<10.0	52.0	<10.0	<10.0	<10.0	—	—	<10.0	<10.0	<10.0	13.0	—	—	19.0	<10.0	—	—	<10.0	14.0
	May-98	20.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	—	—	<10.0	<10.0	<10.0	<10.0	---	---	<10.0	<10.0	—	---	<10.0	<10.0
	Dec-98	121.0	<10.0	11.0	<10.0	16.0	<10.0	well destroyed		—	—	<10.0	<10.0	12.0	12.0	—	—	<10.0	<10.0	—	—	<10.0	<10.0
	Jun-99	77	---	31	12	87	31	---	---	---	---	31	31	---	---	---	---	156	—	---	—	92	<10
	Jul-99	—	---	---	—	—	—	—	—	64	31	—	—	198	130	—	---	---	—	—	---	---	—
	Dec-99	100	17	38	32	56	13	---	---	56	<10	50	16	22	18	---	—	26	27	---	—	33	18
	Jun-00	267	57	17	<10	50	<10	---	---	<10	<10	28	27	---	---	—	—	67	64	---	—	<10	<1
	Dec-00	100	45	28	24	22	14	—	—	257	<10	414	92	200	154	---	---	46	41	—	---	<10	<1
	Jun-01	80	65	24	10	60	n/m	—	—	162	<10	269	50	96	n/m	---	---	191	<10	—	---	121	<1
	Dec-01	73	41	59	12	39	19	---	---	214	<10	55	36	87	n/m	—	—	37	26	—	—	249	<10
	Jun-02	41	40	52	n/m	27	11	—	—	141	<10	20	16	93	n/m	---	---	68	23	---	---	168	12
	Dec-02	27	<10	12	11	34	14	---	---	26	14	14	<10	150	<134	—	—	28	17	—	—	37	<10
	Jun-03	12	<10	19	<10	49	16			10	<10	<10	<10	72	46	---	—	19	<10	---	—	27	<10
	Dec-03	261	<10	18	11	16	<10	—	—	13	<10	216	<10	212	56	---	---	11	<10	---	—	11	<10
	Jun-04	369	<10	18	13	15	<10	---	---	<10	<10	35	<10	---	---	226	13	—	---	59	<10	<10	<10

TABLE 1
Inorganic Constituents Detected in Groundwater
December 2006 Appendix II Assessment Monitoring
City of Durham Closed Landfill

Constituent (PQL [1])	DATE SAMPLED	MONITOR WELLS																					
		P-6 (BKGD.)		MW-2		MW-3		MW-4		MW-4R		MW-5		MW-6		MW-6R		MW-7		MW-7R		MW-8	
NC 2L Standard, ug/L [2]		Total	Diss.	Total	Diss.	Total	Diss.	Total	Diss.	Total	Diss.	Total	Diss.	Total	Diss.	Total	Diss.	Total	Diss.	Total	Diss.	Total	Diss.
Prop. BKGD., ug/L [3]		ug/L		ug/L		ug/L		ug/L		ug/L		ug/L		ug/L		ug/L		ug/L		ug/L		ug/L	
Zinc[4] (0.50 ug/L) Cont'd	Dec-04	17	<10	52	25	35	<10	---	---	<10	<10	134	<10	---	---	77	<10	---	---	15	<10	13	<10
1050 (log value =3.3)	Jun-05	56	<10	44	38	<10	<10	---	---	<10	<10	103	<10	---	---	16	<10	---	---	55	<10	20	<10
log value = 2734.48	Dec-05	<10	<10	74	28	28	<10	---	---	<10	<10	35	<10	---	---	10	<10	---	---	<10	<10	<10	<10
	Jun-06	14	<10	31	29	11	<10	---	---	<10	<10	98	<10	---	---	24	10	---	---	18	<10	<10	<10

[1] Practical Quantitation Limits (PQLs) from 40CFR Part 258 Appendix II (http://www.wastenotnc.org/SWHOME/apdx2.html, updated 11/08/2004).
[2] NC 2L - North Carolina Groundwater Quality Standards listed in 15A NCAC 2L 0202(g) amended effective 08/01/2002.
[3] Prop. BKGD. - proposed Background Concentration determined from statistical analysis; see Table 6 and Note [4].
[4] Log values listed for Ba, Be, Cr, Co, Cu, Pb, Ni, Va, and Zn.
[5] NC Appendix II Assessment Monitoring constituent; not included in Appendix I list.

BOLD - concentration exceeds NC 2L standard.
BDL - below Method Detection Limit (limits not reported)
DISS. - dissolved metal analysis; field filtered.
BKGD. - background monitor well.
n/a - Indicates value not specified or established.

n/c - Indicates value not calculated.
n/m - not measured/analyzed
ug/L - micrograms per liter
--- no sample for corresponding sample date.
<# - below method detection limit where "#" is detection limit reported by lab

Sample data from 9/94 through 12/98 compiled and reported by Malcolm Pirnie, Inc.
Sample data from 6/99 through present collected, compiled, and reported by Weston Solutions, Inc.
December 2005 samples analyzed by City of Durham Water Reclamation laboratory (most constituents), Durham, NC; or Prism Laboratories, Inc., Charlotte, NC (only Sn, CN, sulfide).
These laboratory data have *not* been validated by Weston Solutions, Inc. or a third-party validator.

TABLE 2
Inorganic Constituents Detected In Surface Water
December 2006 Appendix II Assessment Monitoring
City of Durham Closed Landfill

		SURFACE WATER SAMPLING POINTS			
Constituent (NCDENR PQL [1]) NC SWQS, ug/L [2] *MCL, ug/L* [3]	**DATE SAMPLED**	**S-4 (BKGD)** **ug/L**	**S-1** **ug/L**	**S-2** **ug/L**	**S-3** **ug/L**
Antimony, total (30 ug/L)	Dec-04	<5	<5	<5	<5
NA	Jun-05	<5	<5	5.0	<5
6	Dec-05	<5	<5	<5	<5
	Jun-06	<5	<5	Dry	<5
Barium, total (20 ug/L)	Feb-95	27.0	69.0	82.0	39.0
1000	Mar-95	51.0	61.0	59.0	<25.0
2000	Jun-96	42.0	86.0	75.0	<25.0
	Nov-96	32.0	37.0	59.0	<25.0
	Mar-97	44.0	126.0	41.0	27.0
	Oct-97	92.0	162.0	62.0	<25.0
	May-98	35.0	94.0	72.0	106.0
	Dec-98	47.0	Dry	Dry	25.0
	Jun-99	<25	Dry	Dry	<25
	Dec-99	54	174	85	96
	Jun-00	73	Dry	Dry	Dry
	Dec-00	66	Dry	Dry	Dry
	Jun-01	<25	97	80	<25
	Dec-01	<25	Dry	Dry	<25
	Jun-02	<25	Dry	Dry	<25
	Dec-02	76	58	64	29
	Jun-03	<25	111	93	28
	Dec-03	14	59	62	<25
	Jun-04	<25	83	49	<25
	Dec-04	<25	42	71	<25
	Jun-05	<25	73	6	28
	Dec-05	39	59	52	46
	Jun-06	<25	[redacted]	Dry	<25
Chromium, total (10 ug/L)	Feb-95	<5.0	<5.0	<5.0	<5.0
50	Mar-95	<5.0	<5.0	<5.0	<5.0
100	Jun-96	<5.0	<5.0	<5.0	<5.0
	Nov-96	<5.0	<5.0	<5.0	<5.0
	Mar-97	<5.0	<5.0	<5.0	<5.0
	Oct-97	<5.0	5.9	<5.0	<5.0
	May-98	<5.0	5.0	<5.0	<5.0
	Dec-98	<5.0	Dry	Dry	<5.0
	Jun-99	<5	Dry	Dry	<5
	Dec-99	7	16	8	8
	Jun-00	<5	Dry	Dry	Dry
	Dec-00	<5	Dry	Dry	Dry
	Jun-01	<5	<5	<5	<5
	Dec-01	<5	Dry	Dry	<5
	Jun-02	<5	Dry	Dry	<5

TABLE 2
Inorganic Constituents Detected in Surface Water
December 2006 Appendix II Assessment Monitoring
City of Durham Closed Landfill

		SURFACE WATER SAMPLING POINTS			
Constituent (NCDENR PQL [1]) NC SWQS, ug/L [2] *MCL, ug/L* [3]	**DATE SAMPLED**	**S-4 (BKGD) ug/L**	**S-1 ug/L**	**S-2 ug/L**	**S-3 ug/L**
Chromium, total (continued)	Dec-02	<5	<5	<5	<5
	Jun-03	<5	5	<5	<5
	Dec-03	<5	5	<5	<5
	Jun-04	<5	<5	<5	<5
	Dec-04	5	<5	<5	<5
	Jun-05	<5	<5	<5	5
	Dec-05	5	<5	<5	9
	Jun-06	<5	<5	dry	<5
Copper, total (10 ug/L)	Feb-95	<5.0	<5	<5.0	<5.0
7	Mar-95	5.5	6.8	**8.6**	<5.0
1300	Jun-96	6.3	5.9	5.7	<5.0
	Nov-96	<5.0	<5.0	<5.0	<5.0
	Mar-97	6.0	<5.0	<5.0	6.0
	Oct-97	<5.0	<5.0	<5.0	<5.0
	May-98	6.0	**8.0**	6.0	**9.0**
	Dec-98	<5.0	Dry	Dry	<5.0
	Jun-99	<5	Dry	Dry	<5
	Dec-99	**10**	**14**	**10**	**11**
	Jun-00	<5	Dry	Dry	Dry
	Dec-00	<5	Dry	Dry	Dry
	Jun-01	**13**	<5	**8**	<5
	Dec-01	<5	Dry	Dry	<5
	Jun-02	<5	Dry	Dry	<5
	Dec-02	**21**	**8**	**10**	**8**
	Jun-03	<5	**8**	6	<5
	Dec-03	<5	5	6	5
	Jun-04	<5	**8**	<5	<5
	Dec-04	<5	<5	<5	<5
	Jun-05	3	5	5	2
	Dec-05	9	7	10	11
	Jun-06	[redacted]	[redacted]	dry	[redacted]
Cyanide, total[4] (200 ug/L)	Dec-98	<10	Dry	Dry	<10
5	Jun-99	2	Dry	Dry	<2
200	Dec-99	**5**	2	2	2
	Jun-00	<2	Dry	Dry	Dry
	Dec-00	<2	Dry	Dry	Dry
	Jun-01	<2	2	<2	<2
	Dec-01	<2	Dry	Dry	<2
	Jun-02	3	Dry	Dry	<2
	Dec-02	2	<2	<2	<2
	Jun-03	<2	<2	<2	<2

TABLE 2
Inorganic Constituents Detected in Surface Water
December 2006 Appendix II Assessment Monitoring
City of Durham Closed Landfill

		SURFACE WATER SAMPLING POINTS			
Constituent (NCDENR PQL [1]) NC SWQS, ug/L [2] *MCL, ug/L* [3]	**DATE SAMPLED**	**S-4 (BKGD) ug/L**	**S-1 ug/L**	**S-2 ug/L**	**S-3 ug/L**
Cyanide, total (continued)	Dec-03	<2	<2	<2	<2
	Jun-04	<2	<2	<2	<2
	Dec-04	6.1	<2	<2	4.8
	Jun-05	<2	<2	<2	<2
	Dec-05	<2	4.9	4.9	5.4
	Jun-06	[redacted]	[redacted]	Dry	[redacted]
Lead, total (10 ug/L)	Feb-95	11.0	<5.0	6.2	<5.0
25	Mar-95	<5.0	<5.0	7.5	<5.0
15	Jun-96	<5.0	<5.0	<5.0	<5.0
	Nov-96	<5.0	<5.0	<5.0	<5.0
	Mar-97	5.0	<5.0	<5.0	5.0
	Oct-97	<5.0	<5.0	<5.0	<5.0
	May-98	<5.0	<5.0	<5.0	<5.0
	Dec-98	5.0	Dry	Dry	5.0
	Jun-99	<5	Dry	Dry	<5
	Dec-99	17	5	5	7
	Jun-00	<5	Dry	Dry	Dry
	Dec-00	<5	Dry	Dry	Dry
	Jun-01	<5	9	<5	<5
	Dec-01	<5	Dry	Dry	<5
	Jun-02	<5	Dry	Dry	<5
	Dec-02	<5	<5	<5	<5
	Jun-03	9	<5	6	<5
	Dec-03	<5	<5	<5	<5
	Jun-04	<5	<5	<5	<5
	Dec-04	<5	<5	<5	<5
	Jun-05	9	<5	6	<5
	Dec-05	10	<5	<5	10
	Jun-06	<5	<5	Dry	<5
Nickel, total (50 ug/L)	Feb-95	<10.0	<10.0	<10.0	<10.0
25	Mar-95	<10.0	13.0	16.0	<10.0
n/a	Jun-96	<10.0	<10.0	<10.0	<10.0
	Nov-96	<10.0	<10.0	<10.0	<10.0
	Mar-97	<10.0	<10.0	<10.0	<10.0
	Oct-97	<10.0	<10.0	<10.0	<10.0
	May-98	<10.0	<10.0	<10.0	<10.0
	Dec-98	<10.0	Dry	Dry	<10.0
	Jun-99	<10	Dry	Dry	<10
	Dec-99	10	12	10	10
	Jun-00	<10	Dry	Dry	Dry
	Dec-00	<10	Dry	Dry	Dry
	Jun-01	<10	<10	<10	<10
	Dec-01	<10	Dry	Dry	<10

TABLE 2
Inorganic Constituents Detected in Surface Water
December 2006 Appendix II Assessment Monitoring
City of Durham Closed Landfill

		SURFACE WATER SAMPLING PONTS			
Constituent (NCDENR PQL [1]) NC SWQS, ug/L [2] *MCL, ug/L* [3]	**DATE SAMPLED**	**S-4 (BKGD) ug/L**	**S-1 ug/L**	**S-2 ug/L**	**S-3 ug/L**
Nickel, total (continued)	Jun-02	<10	Dry	Dry	<10
	Dec-02	<10	<10	<10	<10
	Jun-03	<10	<10	<10	<10
	Dec-03	<10	<10	<10	<10
	Jun-04	<10	<10	<10	<10
	Dec-04	<10	<10	<10	<10
	Jun-05	<10	<10	<10	<10
	Dec-05	<10	<10	<10	<10
	Jun-06	<10	<10	dry	<10
Silver, total (10 ug/L)	Feb-95	<1.0	<1.0	<1.0	<1.0
0.06	Mar-95	<1.0	<1.0	<1.0	<1.0
n/a	Jun-96	<1.0	**1.8**	**3.3**	<1.0
	Nov-96	<1.0	<1.0	<1.0	<1.0
	Mar-97	<1.0	<1.0	<1.0	<1.0
	Oct-97	<1.0	<1.0	<1.0	<1.0
	May-98	<1.0	<1.0	<1.0	<1.0
	Dec-98	<1.0	Dry	Dry	<1.0
	Jun-99	<1	Dry	Dry	<1
	Dec-99	**1**	**1**	**1**	**1**
	Jun-00	<1	Dry	Dry	Dry
	Dec-00	<1	Dry	Dry	Dry
	Jun-01	<1	<1	<1	<1
	Dec-01	<1	Dry	Dry	<1
	Jun-02	<1	Dry	Dry	<1
	Dec-02	<1	<1	<1	<1
	Jun-03	<1	<1	<1	<1
	Dec-03	<1	<1	<1	<1
	Jun-04	<1	<1	<1	<1
	Dec-04	<1	<1	<1	<1
	Jun-05	<1	<1	<1	<1
	Dec-05	<1	<1	<1	<1
	Jun-06	<1	<1	Dry	<1
Sulfide, total[4] (4000 ug/L)	Dec-98	<1000	Dry	Dry	<1000
n/a	Jun-99	600	Dry	Dry	<200
n/a	Dec-99	--	--	--	--
	Jun-00	500	Dry	Dry	Dry
	Dec-00	760	Dry	Dry	Dry
	Jun-01	800	400	400	800
	Dec-01	<200	Dry	Dry	300
	Jun-02	<200	Dry	Dry	<200
	Dec-02	300	600	<200	400
	Jun-03	2600	800	<200	<200
	Dec-03	<2000	<2000	<2000	[redacted]

TABLE 2
Inorganic Constituents Detected In Surface Water
December 2006 Appendix II Assessment Monitoring
City of Durham Closed Landfill

		SURFACE WATER SAMPLING POINTS			
Constituent (NCDENR PQL [1]) NC SWQS, ug/L [2] *MCL, ug/L* [3]	**DATE SAMPLED**	**S-4 (BKGD) ug/L**	**S-1 ug/L**	**S-2 ug/L**	**S-3 ug/L**
Sulfide, total (continued)	Jun-04	<2000	<2000	<2000	<2000
	Dec-04	<2000	<2000	<2000	<2000
	Jun-05	2500	15000	16000	15000
	Dec-05	<2000	<2000	<2000	<2000
	Jun-06	<2000	[illegible]	Dry	<2000
Vanadium, total (40 ug/L)	Feb-95	<5.0	<5	<5.0	<5.0
n/a	Mar-95	<5.0	<5	<5.0	<5.0
n/a	Jun-96	<5.0	<5	7.7	<5.0
	Nov-96	<5.0	8.0	<5.0	<5.0
	Mar-97	<5.0	<5.0	<5.0	<5.0
	Oct-97	<5.0	8.5	<5.0	5.7
	May-98	<5.0	5.0	5.0	5.0
	Dec-98	<5.0	Dry	Dry	5.0
	Jun-99	<5	Dry	Dry	<5
	Dec-99	11	22	10	11
	Jun-00	5	Dry	Dry	Dry
	Dec-00	5	Dry	Dry	Dry
	Jun-01	<5	<5	5	<5
	Dec-01	6	Dry	Dry	6
	Jun-02	6	Dry	Dry	6
	Dec-02	7	<5	<5	<5
	Jun-03	<5	7	5	<5
	Dec-03	<5	<5	<5	<5
	Jun-04	<5	<5	<5	<5
	Dec-04	<5	<5	<5	<5
	Jun-05	5	<5	<5	<5
	Dec-05	7	<5	<5	6
	Jun-06	<5	<5	Dry	<5
Zinc, total (0.50 ug/L)	Feb-95	33.0	<10.0	<10.0	21.0
50	Mar-95	34.0	**63.0**	**87.0**	**67.0**
n/a	Jun-96	<10.0	<10.0	<10.0	13.0
	Nov-96	20.0	<10.0	16.0	22.0
	Mar-97	32.0	<10.0	<10.0	32.0
	Oct-97	10.0	<14.0	<21.0	**146.0**
	May-98	25.0	<26.0	<19.0	48.0
	Dec-98	<10	Dry	Dry	**56.0**
	Jun-99	76	Dry	Dry	42
	Dec-99	**89**	**58**	45	**66**
	Jun-00	10	Dry	Dry	Dry
	Dec-00	<10	Dry	Dry	Dry
	Jun-01	39	14	16	28
	Dec-01	42	Dry	Dry	**80**
	Jun-02	25	Dry	Dry	36

TABLE 2

Inorganic Constituents Detected in Surface Water

December 2006 Appendix II Assessment Monitoring

City of Durham Closed Landfill

		SURFACE WATER SAMPLING POINTS			
Constituent (NCDENR PQL [1]) NC SWQS, ug/L [2] *MCL, ug/L* [3]	**DATE SAMPLED**	**S-4 (BKGD)** **ug/L**	**S-1** **ug/L**	**S-2** **ug/L**	**S-3** **ug/L**
Zinc, total (continued)	Dec-02	**106**	18	16	39
	Jun-03	18	22	15	19
	Dec-03	**106**	11	<10	42
	Jun-04	21	<10	<10	19
	Dec-04	31	<10	<10	30
	Jun-05	33	<10	<10	30
	Dec-05	38	10	16	33
	Jun-06	[redacted]	[redacted]	Dry	[redacted]

[1] Practical Quantitation Limits (PQLs) from 40CFR Part 258 Appendix II (http://www.wastenotnc.org/SWHOME/apdx2.html, updated 11/08/2004).

[2] NC SWQS - North Carolina Surface Water Quality Standard for all freshwater, or more stringent Class WS-IV waters where available. NC Code 15A NCAC 02.0200, version 01/01/2002.

[3] Maximum Contaminant Level (MCL) is permissible level of a contaminant in water that is delivered to any user of a public water system.

MCLs as published in USEPA National Primary Drinking Water Standards, July 2002.

[4] NC Appendix II Assessment Monitoring constituent; not included in Appendix I list.

— No sample for corresponding sample date.

BKGD. - background (upstream of landfill) surface water sampling point.

Dry - No flowing water at sampling location during sampling event.

n/a - Indicates value not specified or established

ug/L - micrograms per liter

Sample data from 9/94 through 12/98 compiled and reported by Malcolm Pirnie, Inc.

Sample data from 6/99 through present collected, compiled, and reported by Weston Solutions, Inc.

December 2005 inorganic samples analyzed by City of Durham Water Reclamation Lab (most constituents), Durham, NC; or Prism Laboratories, Inc.(only Co, Sn, CN, sulfide), Charlotte, NC.

These laboratory data have *not* been validated by Weston Solutions, Inc. or a third-party validator.

TABLE 3
Organic Constituents Detected in Groundwater
December 2006 Appendix II Assessment Monitoring
City of Durham Closed Landfill

Compound (PQL)[1] (synonym) NC 2L Standard, ug/L [2]	DATE SAMPLED	MONITOR WELLS (BKGD.) P-6 ug/L	MW-2 ug/L	MW-3 ug/L	MW-4 ug/L	MW-4R ug/L	MW-5 ug/L	MW-6 ug/L	MW-6R ug/L	MW-7 ug/L	MW-7R ug/L	MW-8 ug/L	TRIP BLANK ug/L
Acetone (100 ug/L)	Sep-94	NR	NR	NR	NR	---	NR	NR	---	NR	---	NR	NR
700	Dec-94	NR	NR	NR	NR	---	NR	NR	---	NR	---	NR	NR
	Feb-95	BDL	BDL	BDL	BDL	---	BDL	BDL	---	BDL	---	49.8	NR
	Mar-95	BDL	BDL	BDL	BDL	---	BDL	BDL	---	BDL	---	BDL	NR
	Nov-95	BDL	BDL	BDL	BDL	---	BDL	BDL	---	BDL	---	BDL	NR
	Jun-96	<25	<25	<25	<25	---	<25	<25	---	<25	---	<25	NR
	Nov-96	<25	<25	<25	<25	---	<25	<25	---	<25	---	<25	NR
	Mar-97	<25	<25	<25	<25	---	<25	<25	---	<25	---	<25	NR
	Oct-97	<25	<25	<25	<25	---	<25	<25	---	<25	---	<25	NR
	May-98	<20	<20	<20	<20	---	<20	<20	---	<20	---	<20	NR
	Dec-98	<20	<20	<20	destroyed	---	<20	<20	---	<20	---	235	<20
	Feb-99	---	---	---	---	---	---	---	---	---	---	<20	---
	Jun-99	<20	<20	<20	---	---	<20	---	---	<20	---	<20	<20
	Jul-99	---	---	---	---	<20	---	<20	---	---	---	---	---
	Dec-99	<50	<50	<50	---	<50	<50	<50	---	<50	---	<50	<50
	Jun-00	<50	<50	<50	---	<50	<50	---	---	<50	---	<50	<50
	Dec-00	<20	<20	<20	---	<20	<20	<20	---	<20	---	<20	<20
	Jun-01	<20	<20	<20	---	<20	<20	<20	---	<20	---	<20	<20
	Dec-01	<20	<20	<20	---	<20	<20	<20	---	<20	---	<20	<20
	Jun-02	<20	<20	<20	---	<20	<20	<20	---	<20	---	<20	<20
	Dec-02	<20	<20	<20	---	<20	<20	<20	---	<20	---	<20	
	Jun-03	<20	<20	<20	---	<20	<20	<20	---	<20	---	<20	<20
	Dec-03	<20	<20	<20	---	<20	<20	<20	---	<20	---	<20	<20
	Jun-04	<20	<20	<20	---	<20	<20	---	<20	---	<20	<20	<20
	Dec-04	<10	<10	<10	---	<10	<10	---	<10	---	<10	<10	<10
	Jun-05	<10	<10	<10	---	<10	<10	---	<10	---	<10	<10	<10
	Dec-05	<10	<10	<10	---	<10	<10	---	<10	---	< 10	<10	<10
	Jun-06	<10	<10	<10	---	<10	<10	---	<10	---	< 10	<10	<10

TABLE 3
Organic Constituents Detected in Groundwater
December 2006 Appendix II Assessment Monitoring
City of Durham Closed Landfill

Compound (PQL)[1] (synonym) NC 2L Standard, ug/L[2]	DATE SAMPLED	MONITOR WELLS (BKGD.) P-6 ug/L	MW-2 ug/L	MW-3 ug/L	MW-4 ug/L	MW-4R ug/L	MW-5 ug/L	MW-6 ug/L	MW-6R ug/L	MW-7 ug/L	MW-7R ug/L	MW-8 ug/L	TRIP BLANK ug/L
Benzene (5.0 ug/L)	Sep-94	NR	NR	NR	NR	---	NR	NR	---	BDL	---	BDL	NR
1.0	Dec-94	<5	<5	<5	<5	---	<5	<5	---	<5	---	<5	NR
	Feb-95	BDL	BDL	BDL	BDL	---	BDL	BDL	---	BDL	---	BDL	NR
	Mar-95	BDL	BDL	BDL	BDL	---	BDL	BDL	---	BDL	---	BDL	NR
	Nov-95	<5	<5	<5	<5	---	<5	<5	---	<5	---	<5	NR
	Jun-96	<1	<1	2	<1	---	<1	<1	---	<1	---	<1	NR
	Sep-96	---	---	1.8	---	---	---	---	---	---	---	---	NR
	Oct-96	---	---	1.2	---	---	---	---	---	---	---	---	NR
	Nov-96	<1	<1	1.7	<1	---	<1	<1	---	<1	---	<1	NR
	Mar-97	<1	<1	1.6	<1	---	<1	<1	---	<1	---	<1	NR
	Oct-97	<1	<1	2.1	<1	---	<1	<1	---	<1	---	<1	NR
	May-98	<1	<1	<1	<1	---	<1	<1	---	<1	---	<1	NR
	Dec-98	<1	<1	<1	destroyed	---	<1	<1	---	<1	---	<1	<1
	Jun-99	<5	<5	<5	---	---	<5	---	---	<5	---	<5	<5
	Jul-99	---	---	---	---	<5	---	<5	---	---	---	---	---
	Dec-99	<5	<5	<5	---	<5	<5	<5	---	<5	---	<5	<5
	Jun-00	<5	<5	<5	---	<5	<5	---	---	<5	---	<5	<5
	Dec-00	<5	<5	<5	---	<5	<5	<5	---	<5	---	<5	<5
	Jun-01	<5	<5	<5	---	<5	<5	<5	---	<5	---	<5	<5
	Dec-01	<5	<5	<5	---	<5	<5	<5	---	<5	---	<5	<5
	Jun-02	<5	<5	<5	---	<5	<5	<5	---	<5	---	<5	<5
	Dec-02	<5	<5	<5	---	<5	<5	<5	---	<5	---	<5	<5
	Jun-03	<5	<5	<5	---	<5	<5	<5	---	<5	---	<5	<5
	Dec-03	<5	<5	0.83 J	---	<5	<5	<5	---	<5	---	<5	<5
	Jun-04	<5	<5	<5	---	<5	<5	---	<5	---	<5	<5	<5
	Dec-04	<.50	<.50	<.50	---	<.50	<.50	---	<.50	---	<.50	<.50	<.50
	Jun-05	<.50	<.50	**1.1**	---	<.50	<.50	---	**2.7**	---	<.50	<.50	<.50
	Dec-05	<.50	<.50	0.90	---	<.50	<.50	---	**2.8**	---	<.50	<.50	<.50
	Jun-06	<.50	<.50	[redacted]	---	<.50	<.50	---	[redacted]	---	<.50	<.50	<.50
Chlorobenzene (5.0 ug/l)		*Not detected above PQLs previously.*											
50	Dec-03	<1	<1	1.0 J	<1	<1	<1	<1	<1	<1	<1	<1	<1
	Jun-04	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
	Dec-04	<1	<1	1.2	---	<1	<1	---	<1	---	<1	<1	<1
	Jun-05	<1	<1	1.4	---	<1	<1	---	<1	---	<1	<1	<1
	Dec-05	<1	<1	<1	---	<1	<1	---	<1	---	<1	<1	<1
	Jun-06	<1	<1	[redacted]	---	<1	<1	---	[redacted]	---	<1	<1	<1

TABLE 3
Organic Constituents Detected in Groundwater
December 2006 Appendix II Assessment Monitoring
City of Durham Closed Landfill

Compound (PQL)[1] (synonym) NC 2L Standard, ug/L[2]	DATE SAMPLED	MONITOR WELLS (BKGD.) P-6 ug/L	MW-2 ug/L	MW-3 ug/L	MW-4 ug/L	MW-4R ug/L	MW-5 ug/L	MW-6 ug/L	MW-6R ug/L	MW-7 ug/L	MW-7R ug/L	MW-8 ug/L	TRIP BLANK ug/L
Chloroethane (10 ug/L)	Sep-94	NR	NR	NR	NR	---	NR	NR	---	BDL	---	BDL	NR
(ethyl chloride)	Dec-94	<10	<10	<10	<10	---	<10	<10	---	<10	---	<10	NR
2800	Feb-95	BDL	BDL	BDL	BDL	---	BDL	BDL	---	BDL	---	BDL	NR
	Mar-95	BDL	BDL	BDL	BDL	---	BDL	BDL	---	BDL	---	BDL	NR
	Nov-95	<10	<10	<10	<10	---	<10	<10	---	<10	---	<10	NR
	Jun-96	<1	<1	<1	<1	---	<1	<1	---	<1	---	<1	NR
	Sep-96	---	---	1.2	---	---	---	---	---	---	---	---	NR
	Nov-96	<1	<1	<1	<1	---	<1	<1	---	<1	---	<1	NR
	Mar-97	<1	<1	<1	<1	---	<1	<1	---	<1	---	<1	NR
	Oct-97	<1	<1	<1	<1	---	<1	<1	---	<1	---	<1	NR
	Dec-98	<5	<5	<5	destroyed	---	<5	<5	---	<5	---	<5	<5
	Jun-99	<10	<5	<10	---	---	<10	---	---	<10	---	<10	<10
	Jul-99	---	---	---	---	<10	---	<10	---	---	---	---	---
	Dec-99	<10	<10	<10	---	<10	<10	<10	---	<10	---	<10	<10
	Jun-00	<10	<10	<10	---	<10	<10	---	---	<10	---	<10	<10
	Dec-00	<10	<10	<10	---	<10	<10	<10	---	<10	---	<10	<10
	Jun-01	<10	<10	<10	---	<10	<10	<10	---	<10	---	<10	<10
	Dec-01	<10	<10	<10	---	<10	<10	<10	---	<10	---	<10	<10
	Jun-02	<10	<10	<10	---	<10	<10	<10	---	<10	---	<10	<10
	Dec-02	<10	<10	<10	---	<10	<10	<10	---	<10	---	<10	<10
	Jun-03	<10	<10	<10	---	<10	<10	<10	---	<10	---	<10	<10
	Dec-03	<10	<10	<10	---	<10	<10	<10	---	<10	---	<10	<10
	Jun-04	<10	<10	<10	---	<10	<10	---	<10	---	<10	<10	<10
	Dec-04	<5	<5	<5	---	<5	<5	---	<5	---	<5	<5	<5
	Jun-05	<5	<5	<5	---	<5	<5	---	<5	---	<5	<5	<5
	Dec-05	<5	<5	<5	---	<5	<5	---	<5	---	<5	<5	<5
	Jun-06	<5	<5	<5	---	<5	<5	---	<5	---	<5	<5	<5
1,4-Dichlorobenzene (5.0 ug/l)		*Not detected above PQLs previously.*											
1.4	Dec-03	<1	<1	0.87 J	---	<1	<1	<1	---	<1	---	<1	<1
	Jun-04	<1	<1	<1	---	<1	<1	---	<1	---	<1	<1	<1
	Dec-04	<1	<1	<1	---	<1	<1	---	**2.5**	---	<1	<1	<1
	Jun-05	<1	<1	<1	---	<1	<1	---	**2.5**	---	<1	<1	<1
	Dec-05	<1	<1	1.0	---	<1	<1	---	**3.5**	---	<1	<1	<1
	Jun-06	<1	<1	1.2	---	<1	<1	---	**3.6**	---	<1	<1	<1

TABLE 3
Organic Constituents Detected in Groundwater
December 2006 Appendix II Assessment Monitoring
City of Durham Closed Landfill

Compound (PQL)[1] (synonym) NC 2L Standard, ug/L[2]	DATE SAMPLED	MONITOR WELLS (BKGD.) P-6 ug/L	MW-2 ug/L	MW-3 ug/L	MW-4 ug/L	MW-4R ug/L	MW-5 ug/L	MW-6 ug/L	MW-6R ug/L	MW-7 ug/L	MW-7R ug/L	MW-8 ug/L	TRIP BLANK ug/L
1,1-Dichloroethane (5.0 ug/L)		*Not detected above PQLs previously.*											
(1,1-DCA)	Dec-03	<5	<5	<5	---	<5	<5	<5	---	<5	---	<5	<5
70	Jun-04	<5	<5	<5	---	<5	<5	---	3.7J	---	<5	<5	<5
	Dec-04	<1	<1	<1	---	<1	<1	---	4.4	---	<1	<1	<1
	Jun-05	<1	<1	<1	---	<1	<1	---	5.3	---	<1	<1	<1
	Dec-05	<1	<1	<1	---	<1	<1	---	4.3	---	<1	<1	<1
	Jun-06	<1	<1	<1	---	<1	<1	---	[redacted]	---	<1	<1	<1
cis-1,2-dichloroethene (5.0 ug/L)	Sep-94	NR	NR	NR	NR	---	NR	NR	---	NR	---	NR	NR
(c1,2-DCE)	Dec-94	NR	NR	NR	NR	---	NR	NR	---	NR	---	NR	NR
70	Feb-95	BDL	BDL	BDL	BDL	---	BDL	BDL	---	BDL	---	BDL	NR
	Mar-95	BDL	BDL	BDL	BDL	---	BDL	BDL	---	BDL	---	BDL	NR
156-59-2	Nov-95	<5	<5	<5	<5	---	<5	<5	---	<5	---	<5	NR
	Jun-96	<1	<1	<1	<1	---	<1	<1	---	<1	---	<1	NR
	Sep-96	---	---	1.0	---	---	---	---	---	---	---	---	NR
	Nov-96	<1	<1	<1	<1	---	<1	<1	---	<1	---	<1	NR
	Mar-97	<1	<1	<1	<1	---	<1	<1	---	<1	---	<1	NR
	Oct-97	<1	<1	<1	<1	---	<1	<1	---	<1	---	<1	NR
	Dec-98	<2	<2	<2	destroyed	---	<2	<2	---	<2	---	<2	<2
	Jun-99	<5	<5	<5	---	---	<5	---	---	<5	---	<5	<5
	Jul-99	---	---	---	---	<5	---	<5	---	---	---	---	---
	Dec-99	<5	<5	<5	---	<5	<5	<5	---	<5	---	<5	<5
	Jun-00	<5	<5	<5	---	<5	<5	---	---	<5	---	<5	<5
	Dec-00	<5	<5	<5	---	<5	<5	---	---	<5	---	<5	<5
	Jun-01	<5	<5	<5	---	<5	<5	<5	---	<5	---	<5	<5
	Dec-01	<5	<5	<5	---	<5	<5	<5	---	<5	---	<5	<5
	Jun-02	<5	<5	<5	---	<5	<5	<5	---	<5	---	<5	<5
	Dec-02	<5	<5	<5	---	<5	<5	<5	---	<5	---	<5	<5
	Jun-03	<5	<5	<5	---	<5	<5	<5	---	<5	---	<5	<5
	Dec-03	<5	<5	<5	---	<5	<5	<5	---	<5	---	<5	<5
	Jun-04	<5	<5	<5	---	<5	<5	---	46	---	<5	<5	<5
	Dec-04	<1	<1	<1	---	<1	<1	---	45	---	<1	<1	<1
	Jun-05	<1	<1	<1	---	<1	<1	---	90	---	<1	<1	<1
	Dec-05	<1	1.1	<1	---	<1	<1	---	68	---	<1	<1	<1
	Jun-06	<1	<1	<1	---	<1	<1	---	[redacted]	---	<1	<1	<1

TABLE 3

Organic Constituents Detected in Groundwater
December 2006 Appendix II Assessment Monitoring
City of Durham Closed Landfill

Compound (PQL)[1] (synonym) NC 2L Standard, ug/L [2]	DATE SAMPLED	MONITOR WELLS (BKGD.) P-6 ug/L	MW-2 ug/L	MW-3 ug/L	MW-4 ug/L	MW-4R ug/L	MW-5 ug/L	MW-6 ug/L	MW-6R ug/L	MW-7 ug/L	MW-7R ug/L	MW-8 ug/L	TRIP BLANK ug/L
trans-1,2-Dichloroethene (5.0 ug/L)		*Not detected above PQLs previously.*											
(t1,2-DCE)	Dec-03	<5	<5	<5	---	<5	<5	<5	---	<5	---	<5	<5
100	Jun-04	<5	<5	<5	---	<5	<5	---	2.6 J	---	<5	<5	<5
156-60-5	Dec-04	<2	<2	<2	---	<2	<2	---	3.5	---	<2	<2	<2
	Jun-05	<2	<2	<2	---	<2	<2	---	4.4	---	<2	<2	<2
	Dec-05	<2	<2	<2	---	<2	<2	---	3.8	---	<2	<2	<2
	Jun-06	<2	<2	<2	---	<2	<2	---	[redacted]	---	<2	<2	<2
1,2-Dichloropropane (5.0 ug/l)		*Not detected above PQLs previously.*											
0.51	Dec-03	<5	<5	<5	---	<5	<5	<5	---	<5	---	<5	<5
	Jun-04	<5	<5	<5	---	<5	<5	---	<5	---	<5	<5	<5
	Dec-04	<1	<1	<1	---	<1	<1	---	**1.8**	---	<1	<1	<1
	Jun-05	<1	<1	<1	---	<1	<1	---	**2.4**	---	<1	<1	<1
	Dec-05	<1	<1	<1	---	<1	<1	---	**2.4**	---	<1	<1	<1
	Jun-06	<1	<1	<1	---	<1	<1	---	[redacted]	---	<1	<1	<1
Methylene Chloride (10 ug/L)	Sep-94	NR	NR	NR	NR	---	NR	NR	---	14.6	---	<5	NR
(dichloromethane)	Dec-94	<5	<5	<5	<5	---	<5	<5	---	<5	---	<5	NR
4.6	Feb-95	<5	<5	<5	<5	---	<5	<5	---	<5	---	<5	NR
	Mar-95	<5	<5	<5	<5	---	<5	<5	---	<5	---	<5	NR
	Nov-95	<5	<5	<5	<5	---	<5	<5	---	<5	---	<5	NR
	Jun-96	<5	<5	<5	<5	---	<5	<5	---	<5	---	<5	NR
	Nov-96	<5	<5	<5	<5	---	<5	<5	---	<5	---	<5	NR
	Mar-97	<5	<5	<5	<5	---	<5	<5	---	<5	---	<5	NR
	Oct-97	<5	<5	<5	<5	---	**22**	<5	---	<5	---	<5	NR
	May-98	<5	<5	<5	<5	---	<5	<5	---	<5	---	<5	NR
	Dec-98	<5	<5	<5	destroyed	---	<5	<5	---	<5	---	<5	<5
	Jun-99	<5	<5	<5	---	---	<5	---	---	<5	---	<5	<5
	Jul-99	---	---	---	---	<5	---	<5	---	---	---	---	---
	Dec-99	<5	<5	<5	---	<5	<5	<5	---	<5	---	<5	<5
	Jun-00	<5	<5	<5	---	<5	<5	---	---	<5	---	<5	<5
	Dec-00	<5	<5	<5	---	<5	<5	<5	---	<5	---	<5	<5
	Jun-01	<5	<5	<5	---	<5	<5	<5	---	<5	---	<5	<5
	Dec-01	**77**	**92**	**66**	---	**110**	**68**	**91**	---	**68**	---	**66**	<5

TABLE 3
Organic Constituents Detected in Groundwater
December 2006 Appendix II Assessment Monitoring
City of Durham Closed Landfill

Compound (PQL)[1] (synonym) NC 2L Standard, ug/L[2]	DATE SAMPLED	MONITOR WELLS (BKGD.) P-6 ug/L	MW-2 ug/L	MW-3 ug/L	MW-4 ug/L	MW-4R ug/L	MW-5 ug/L	MW-6 ug/L	MW-6R ug/L	MW-7 ug/L	MW-7R ug/L	MW-8 ug/L	TRIP BLANK ug/L
Methylene Chloride (10 ug/L)	Jun-02	<5	<5	<5	—	<5	<5	<5	—	<5	—	<5	<5
4.6	Dec-02	<5	<5	<5	—	<5	<5	<5	—	<5	—	<5	<5
	Jun-03	<5	<5	<5	—	<5	<5	<5	—	<5	—	<5	<5
	Dec-03	<5	<5	<5	—	<5	<5	<5	—	<5	—	<5	<5
	Jun-04	<5	<5	<5	—	<5	<5	—	<10	—	<5	<5	<5
	Dec-04	<2	<2	<2	—	<2	<2	—	<2	—	<2	<2	<5
	Jun-05	<2	<2	<2	—	<2	<2	—	<2	—	<2	<2	<2
	Dec-05	<2	<2	<2	—	<2	<2	—	<2	—	<2	<2	<2
	Jun-06	<2	<2	<2	—	<2	<2	—	<2	—	<2	<2	<2
Tetrachloroethene (1.0 ug/L)		*Not detected above PQLs previously.*											
(PCE)	Jun-05	<1	<1	<1	—	<1	<1	—	**1.9**	—	<1	<1	<1
0.7	Dec-05	<1	<1	<1	—	<1	<1	—	<1	—	<1	<1	<1
	Jun-06	<1	<1	<1	—	<1	<1	—	[redacted]	—	<1	<1	<1
Toluene (5.0 ug/L)	Sep-94	NR	NR	NR	NR	—	NR	NR	—	BDL	—	BDL	NR
1000	Dec-94	<5	<5	<5	<5	—	<5	<5	—	<5	—	<5	NR
	Feb-95	<5	<5	<5	<5	—	<5	<5	—	<5	—	<5	NR
	Mar-95	<5	<5	<5	<5	—	<5	<5	—	<5	—	<5	NR
	Nov-95	<5	<5	<5	<5	—	<5	<5	—	<5	—	<5	NR
	Jun-96	<1	<1	<1	1.9 B	—	<1	<1	—	<1	—	<1	NR
	Nov-96	<1	<1	1.7	1.2	—	<1	<1	—	1.2	—	<1	NR
	Mar-97	<1	<1	<1	<1	—	<1	<1	—	<1	—	<1	NR
	Oct-97	<1	<1	<1	<1	—	<1	<1	—	<1	—	<1	NR
	May-98	<1	<1	<1	<1	—	<1	<1	—	<1	—	<1	NR
	Dec-98	<1	<1	<1	destroyed	—	<1	<1	—	<1	—	<1	<1
	Jun-99	<5	<5	<5	—	—	<5	—	—	<5	—	<5	<5
	Jul-99	—	—	—	—	<5	—	<5	—	—	—	—	—
	Dec-99	<5	<5	<5	—	<5	<5	<5	—	<5	—	<5	<5
	Jun-00	<5	<5	<5	—	<5	<5	—	—	<5	—	<5	<5
	Dec-00	<5	<5	<5	—	<5	<5	<5	—	<5	—	<5	<5
	Jun-01	<5	<5	<5	—	<5	<5	<5	—	<5	—	<5	<5
	Dec-01	<5	<5	<5	—	<5	<5	<5	—	<5	—	<5	<5
	Jun-02	<5	<5	<5	—	<5	<5	<5	—	<5	—	<5	<5

TABLE 3
Organic Constituents Detected in Groundwater
December 2006 Appendix II Assessment Monitoring
City of Durham Closed Landfill

Compound (PQL)[1] (synonym) NC 2L Standard, ug/L[2]	DATE SAMPLED	MONITOR WELLS (BKGD.) P-6 ug/L	MW-2 ug/L	MW-3 ug/L	MW-4 ug/L	MW-4R ug/L	MW-5 ug/L	MW-6 ug/L	MW-6R ug/L	MW-7 ug/L	MW-7R ug/L	MW-8 ug/L	TRIP BLANK ug/L
Toluene (5.0 ug/L)	Dec-02	<5	<5	<5	---	<5	<5	<5	---	<5	---	<5	<5
1000	Jun-03	<5	<5	<5	---	<5	<5	<5	---	<5	---	<5	<5
	Dec-03	<5	<5	<5	---	<5	<5	<5	---	<5	---	<5	<5
	Jun-04	<5	<5	<5	---	<5	<5	---	<5	---	<5	<5	<5
	Dec-04	<1	<1	<1	---	<1	<1	---	<1	---	<1	<1	<1
	Jun-05	<1	<1	<1	---	<1	<1	---	<1	---	<1	<1	<1
	Dec-05	<1	<1	<1	---	<1	<1	---	<1	---	<1	<1	<1
	Jun-06	<1	<1	<1	---	<1	<1	---	<1	---	<1	<1	<1
Trichloroethene (5.0 ug/L)		*Not detected above PQLs previously.*											
(TCE)	Dec-03	<5	<5	<5	---	<5	<5	<5	---	<5	---	<5	<5
2.8	Jun-04	<5	<5	<5	---	<5	<5	---	**3.4 J**	---	<5	<5	<5
	Dec-04	<2	<2	<2	---	<2	<2	---	**3.5**	---	<2	<2	<2
	Jun-05	<2	<2	<2	---	<2	<2	---	**4.7**	---	<2	<2	<2
	Dec-05	<2	<2	<2	---	<2	<2	---	**3.9**	---	<2	<2	<2
	Jun-06	<2	<2	<2	---	<2	<2	---	[redacted]	---	<2	<2	<2
Vinyl Chloride (10 ug/L)		*Not detected above PQLs previously.*											
(vinyl chloride)	Dec-03	<10	<10	<10	---	<10	<10	<10	---	<10	---	<10	<10
0.015	Jun-04	<10	<10	<10	---	<10	<10	---	**9.9 J**	---	<10	<10	<10
	Dec-04	<2	<2	<2	---	<2	<2	---	**12**	---	<2	<2	<2
	Jun-05	<2	<2	<2	---	<2	<2	---	**16**	---	<2	<2	<2
	Dec-05	<2	<2	<2	---	<2	<2	---	**13**	---	<2	<2	<2
	Jun-06	<2	<2	<2	---	<2	<2	---	[redacted]	---	<2	<2	<2

[1] Practical Quantitation Limits (PQLs) from 40CFR Part 258 Appendix II (http://www.wastenotnc.org/SWHOME/apdx2.html, updated 11/08/2004).

[2] NC 2L - North Carolina Groundwater Quality Standards listed in 15A NCAC 2L. 0202(g) amended effective 08/01/2002.

BOLD - concentration exceeds NC 2L standard.
B - also detected in laboratory blank.
BDL - below Method Detection Limit (limits not reported)

n/a - Indicates value not specified or established.
NR - not reported
ug/L - micrograms per liter

BKGD. - background monitor well.
--- no sample for corresponding sample date.

Sample data from 9/94 through 12/98 compiled and reported by Malcolm Pirnie, Inc.
Sample data from 6/99 through present collected, compiled, and reported by Weston Solutions, Inc.
December 2005 samples analyzed by Prism Laboratories, Inc., Charlotte, NC. These laboratory data have not been validated by Weston Solutions, Inc. or a third-party validator.

TABLE 4
Organic Constituents Detected in Surface Water
December 2006 Appendix II Assessment Monitoring
City of Durham Closed Landfill

Compound (PQL[1]) (synonym) NC SWQS[2] *MCL* [3]	DATE SAMPLED	SURFACE WATER SAMPLING POINTS S-4 (BKGD) ug/L	S-1 ug/L	S-2 ug/L	S-3 ug/L	TRIP BLANK ug/L
Chloroform (5 ug/L)	Sep-94	BDL	Dry	Dry	BDL	NR
(trichloromethane)	Feb-95	<5	<5	<5	<5	NR
n/a	Mar-95	<5	<5	<5	<5	NR
80 ug/L	Jun-96	<1	<1	<1	<1	NR
	Nov-96	<1	<1	<1	1	NR
	Mar-97	<1	<1	<1	<1	NR
	Oct-97	<1	<1	<1	<1	NR
	May-98	<5	<5	<5	<5	NR
	Dec-98	<2	<2	<2	<2	NR
	Jun-99	<5	Dry	Dry	<5	<5
	Dec-99	<5	<5	<5	<5	<5
	Jun-00	<5	Dry	Dry	Dry	<5
	Dec-00	<5	Dry	Dry	Dry	<5
	Jun-01	<5	<5	<5	<5	<5
	Dec-01	<5	Dry	Dry	<5	<5
	Jun-02	<5	Dry	Dry	<5	<5
	Dec-02	<5	<5	<5	<5	<5
	Jun-03	<5	<5	<5	<5	<5
	Dec-03	<5	<5	<5	<5	<5
	Jun-04	<5	<5	<5	<5	<5
	Dec-04	<1	<1	<1	<1	<1
	Jun-05	<1	<1	<1	<1	<1
	Dec-05	<1	<1	<1	<1	<1
	Jun-06	[redacted]	<1	<1	[redacted]	<1
Methylene Chloride (10 ug/L)	Sep-94	BDL	Dry	Dry	9.5	NR
(dichloromethane)	Feb-95	<5	<5	<5	<5	NR
n/a	Mar-95	<5	<5	<5	<5	NR
5 ug/L	Jun-96	<5	<5	<5	<5	NR
	Nov-96	<5	<5	<5	<5	NR
	Mar-97	<5	<5	<5	<5	NR
	Oct-97	10	<5	<5	<5	NR
	May-98	<5	<5	<5	<5	NR
	Dec-98	<5	<5	<5	<5	NR
	Jun-99	<5	Dry	Dry	<5	<5
	Dec-99	<5	<5	<5	<5	<5
	Jun-00	<5	Dry	Dry	Dry	<5
	Dec-00	<5	Dry	Dry	Dry	<5
	Jun-01	<5	<5	<5	<5	<5
	Dec-01	<5	Dry	Dry	<5	<5
	Jun-02	<5	Dry	Dry	<5	<5
	Dec-02	<5	<5	<5	<5	<5
	Jun-03	<5	<5	<5	<5	<5
	Dec-03	<5	<5	<5	<5	<5
	Jun-04	<5	<5	<5	<5	<5
	Dec-04	<2	<2	<2	<2	<2
	Jun-05	<2	<2	<2	<2	<2
	Dec-05	<2	<2	<2	<2	<2
	Jun-06	<2	<2	<2	<2	<2

TABLE 4
Organic Constituents Detected in Surface Water
December 2006 Appendix II Assessment Monitoring
City of Durham Closed Landfill

Compound (PQL[1]) (synonym) NC SWQS[2] *MCL [3]*	DATE SAMPLED	SURFACE WATER SAMPLING POINTS S-4 (BKGD) ug/L	S-1 ug/L	S-2 ug/L	S-3 ug/L	TRIP BLANK ug/L
Toluene (5 ug/L)	Sep-94	BDL	Dry	Dry	BDL	NR
11 ug/L	Feb-95	<5	<5	<5	<5	NR
1000 ug/L	Mar-95	<5	<5	<5	<5	NR
	Jun-96	1.0 B	1.1 B	1.4 B	1.1 B	NR
	Nov-96	<1	1	<1	1.7	NR
	Mar-97	<1	<1	<1	<1	NR
	Oct-97	<1	<1	<1	<1	NR
	May-98	<1	<1	<1	<1	NR
	Dec-98	<1	<1	<1	<1	NR
	Jun-99	<5	Dry	Dry	<5	<5
	Jun-99	<5	<5	<5	<5	<5
	Dec-99	<5	<5	<5	<5	<5
	Jun-00	<5	Dry	Dry	Dry	<5
	Dec-00	<5	Dry	Dry	Dry	<5
	Jun-01	<5	<5	<5	<5	<5
	Dec-01	<5	Dry	Dry	<5	<5
	Jun-02	<5	Dry	Dry	<5	<5
	Dec-02	<5	<5	<5	<5	<5
	Jun-03	<5	<5	<5	<5	<5
	Dec-03	<5	<5	<5	<5	<5
	Jun-04	<5	<5	<5	<5	<5
	Dec-04	<1	<1	<1	<1	<1
	Jun-05	<1	<1	<1	<1	<1
	Dec-05	<1	<1	<1	<1	<1
	Jun-06	<1	<1	<1	<1	<1

[1] Practical Quantitation Limits (PQLs) from 40CFR Part 258 Appendix II
(http://www.wastenotnc.org/SWHOME/apdx2.html, updated 11/08/2004).

[2] NC SWQS - North Carolina Surface Water Quality Standard for all freshwater, or more stringent Class WS-IV waters where available. NC Code 15A NCAC 02.0200, version 01/01/2002.

[3] Maximum Contaminant Level (MCL) is permissible level of a contaminant in water that is delivered to any user of a public water system.
MCLs as published in USEPA National Primary Drinking Water Standards, July 2002.

BDL - below laboratory Detection Limit (limits not reported)

BKGD. - background (upstream of landfill) surface water sampling point.

Dry - No flowing water at sampling location during sampling event.

n/a - Indicates value not specified or established

NR - not reported

ug/L - micrograms per liter

Sample data from 9/94 through 12/98 compiled and reported by Malcolm Pirnie, Inc.

Sample data from 6/99 through present collected, compiled, and reported by Weston Solutions, Inc.

December 2005 organic samples analyzed by Prism Laboratories, Inc., Charlotte, NC.

These laboratory data have *not* been validated by Weston Solutions, Inc. or a third-party validator.

TABLE 5
Water Quality Indicator Parameters
December 2006 Appendix II Assessment Monitoring
City of Durham Closed Landfill

		MONITOR WELLS											SURFACE WATER SAMPLING POINTS			
Parameter	DATE SAMPLED	P-6 (BKGD.)	MW-2	MW-3	MW-4	MW-4R	MW-5	MW-6	MW-6R	MW-7	MW-7R	MW-8	S-4 (BKGD)	S-1	S-2	S-3
Conductivity, uS/cm[3]	May-98	454	80	1200	460	—	383	518	—	338	—	348	NR	NR	NR	NR
	Dec-98	394	59	1660	destroyed	—	388	456	—	305	—	406	NR	NR	NR	NR
	Jun-99	447	95.1	1511	—	—	467	—	—	359	—	490	198	dry	dry	167
	Jul-99	—	—	—	—	608	—	439	—	—	—	—	—	dry	dry	—
	Dec-99	246	81.4	1564	—	692	487	—	—	341	—	426	257	273	138	135
	Jun-00	461	85.8	1626	—	726	474	dry	—	385	—	479	202	dry	dry	dry
	Dec-00	449	103	1239		463	445	559	—	367	—	460	278	dry	dry	dry
	Jun-01	432	66.5	1240	—	539	366	365	—	305	—	334	373	185	167	393
	Dec-01	432	107	1389	—	534	437.1	561	—	309	—	422	445	dry	dry	434
	Jun-02	425	78.0	1545	—	625	444	450	—	308	—	430	451	dry	dry	250
	Dec-02	460	84.0	1601	—	668	529	344	—	343	—	242	123	60	110	341
	Jun-03	286	78.0	1713	—	652	543	267	—	322	—	386*	186	177		316
	Dec-03	390	103	1442		645		220	—	325	—	401	411	29.9	24.3	410
	Jun-04	449	92.0	1642	—	630	471	—	467	—	340	379	451	284	277	431
	Dec-04	489	87.0	1660	—	689	583	—	553	—	431	440	434	249	—	424
	Jun-05	429	768	1343	—	575	467	—	443	—	349	386	336	197	191	346
	Dec-05	408	171	1712	—	708	623	—	590	—	450	388	250	129	140	176
	Jun-06	469	66	1397	—	604	535	—	488	—	348	237	391	161	dry	412
Dissolved Oxygen, mg/L	Dec-01	4.70	4.00	2.05	—	3.90	3.50	2.80	—	5.30	—	2.25	5.90	dry	dry	4.70
	Jun-02	5.28	9.08	18.58	—	7.00	16.85	4.03	—	4.86	—	5.69	9.10	dry	dry	13.3
	Dec-02	5.50	7.92	12.38	—	5.99	10.2	8.67	—	6.72	—	3.30	11.64	10.81	10.51	11.57
	Jun-03	7.65	9.58	3.02	—	4.63	2.65	9.92	—	5.25	—	3.69	10.16	7.80	—	10.04
	Dec-03	5.90	5.00	3.60	—	7.90	—	3.60	—	2.10	—	4.30	10.50	12.60	12.5	10.5
	Jun-04	6.50	8.44	2.84	—	5.37	2.96	—	5.69	—	5.23	6.20	8.01	4.53	7.40	7.83
	Dec-04	6.21	7.52	3.29	—	3.65	3.61	—	4.69	—	4.60	4.63	9.93	12.20	—	10.01
	Jun-05	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	Jun-06	4.00	4.48	4.19	—	4.31	3.48	—	2.77	—	2.19	2.69	6.59	5.45	dry	6.74
Dissolved Oxygen,%	Dec-05	41.60	58.00	11.30	—	44.30	17.40	—	41.10	—	14.30	32.00	88.50	78.50	79.60	98.2

TABLE 6
Groundwater Standards and Proposed Background Concentrations
Appendix II Inorganic Constituents
City of Durham Closed Landfill

INORGANIC CONSTITUENTS	NCDENR PQL [1] ug/L	NC 2L STD. [2] ug/L	USEPA MCL [3] ug/L	RATIONALE FOR PROPOSED BACKGROUND CONCENTRATION	PROPOSED BACKGROUND CONCENTRATION [4] (LOWER LIMIT) ug/L
Antimony, total	30	---	6	Background all below quantitation limit; use DL for background.	5.0
Arsenic, total	10	10	10	Below quantitation limit > 50%; use non-parametric analysis for bkgd.(max. detected concentration).	11
Barium, total [5]	*1.3*	*3.3*	*3.3*	*Parametric prediction interval calculated for bkgd.*	*6766*
Beryllium, total[5]	*0.3*	---	*0.6*	*Parametric prediction interval calculated for bkgd.*	*1.4*
Cadmium, total	1	5	5	Below quantitation limit > 50%; use non-parametric analysis for bkgd.(max. detected concentration).	2.2
Chromium , total [5]	*1.0*	*1.7*	*2.0*	*Parametric prediction interval calculated for bkgd.*	*860*
Cobalt, total [5] [7]	*10*	---	---	*Parametric prediction interval calculated for bkgd.*	*1046*
Copper, total [5]	*1.0*	*3.0*	*3.1*	*Parametric prediction interval calculated for bkgd.*	*841*
Cyanide [6]	200	154	200	Below quantitation limit > 50%; use non-parametric analysis for bkgd.(max. detected concentration).	5.0
Lead, total[5]	*1.0*	*1.2*	*1.2*	*Parametric prediction interval calculated for bkgd.*	*463*
Mercury, total [6]	2	1.1	2	Only 2 sets data avail.; insufficient data for statistical evaluation.	n/c
Nickel, total[5]	*1.7*	*2.0*	---	*Parametric prediction interval calculated for bkgd.*	*587*
Selenium, total	20	50	50	Background all below quantitation limit; use DL for background.	5.0
Silver, total	10	18	---	Below quantitation limit > 50%; use non-parametric analysis for bkgd.(max. detected concentration).	8.0
Sulfide [6]	4000	---	---	Below quantitation limit > 50%; use non-parametric analysis for bkgd.(max. detected concentration).	16000
Thallium, total	10	---	2	Below quantitation limit > 50%; use non-parametric analysis for bkgd.(max. detected concentration).	2.0
Tin, total [6]	40	---	---	Only 2 sets data avail.; insufficient data for statistical evaluation.	n/c
Vanadium, total[5]	*1.60*	---	---	*Parametric prediction interval calculated for bkgd.*	*630*
Zinc, total[5]	*-0.3*	*3.3*	---	*Parametric prediction interval calculated for bkgd.*	*2734*

[1] Practical Quantitation Limits (PQLs) from 40CFR Part 258 Appendix II (http://www.wastenotnc.org/SWHOME/apdx2.html, updated 11/08/2004).

[2] North Carolina Groundwater Quality Standards listed in 15A NCAC 2L .0202(g) amended effective 08/01/2002.

[3] Maximum Contaminant Level (MCL) is permissible level of a contaminant in water that is delivered to any user of a public water system. MCLs as published in USEPA National Primary Drinking Water Standards, June 2003.

[4] Background groundwater concentration proposed for this site, determined through statistitical evaluation of available inorganic data from Background Well P-6 (Method descriptions in Sects. 2.3 & 4; calculations in Appendix B).

[5] *All values listed for this constituent are base-10 logarithm (LOG) values for appropriate statistical comparison.*

[6] Appendix II Assessment Monitoring constituent not included on Appendix I list.

[7] Concentration calculated using results through December 2004.

bkgd. - background

— Indicates value not specified or not established.

n/c Indicates value not calculated

ug/L micrograms per liter

TABLE 7
Groundwater Standards and Proposed Background Concentrations
Appendix II Detected Organic Constituents
City of Durham Closed Landfill

DETECTED ORGANIC COMPOUNDS ONLY (synonym)	NC DENR PQL [1] (LOWER LIMIT) ug/L	NC 2L STD. [2] ug/L	USEPA MCL [3] ug/L
Acetone	100	700	---
Benzene	5.0	1	5
Chlorobenzene	5.0	50	100
Chloroethane (ethyl chloride)	10	2800	---
1,4-Dichlorobenzene (p-dichlorobenzene)	5.0	1.4	75
1,1-Dichloroethane (1,1-DCA)	5.0	70	---
cis-1,2-Dichloroethene (c1,2-DCE)	5.0	70	70
trans-1,2-Dichloroethene (t1,2-DCE)	5.0	100	100
1,2-Dichloropropane	5.0	0.1	5
Methylene Chloride (dichloromethane)	10	4.6	5
Tetrachloroethene (PCE)	1.0	0.7	5
Toluene	5.0	1000	1000
Trichloroethene (TCE)	5.0	2.8	5
Vinyl Chloride	10	0.015	2

[1] Practical Quantitation Limits (PQLs) from 40CFR Part 258 Appendix II (http://www.wastenotnc.org/SWHOME/apdx2.html, updated 11/08/2004).

[2] North Carolina Groundwater Quality Standards listed in 15A NCAC 2L .0202(g) amended effective 08/01/2002.

[3] Maximum Contaminant Level (MCL) is permissible level of a contaminant in water that is delivered to any user of a public water system. MCLs as published in USEPA National Primary Drinking Water Standards, June 2003.

— Indicates value not specified or not established.

ug/L micrograms per liter

TABLE 8
2000-2006 Groundwater Elevations
City of Durham Closed Landfill

WELL ID	Ground Surface Elevation [1]	Measuring Point Elevation [1]	Depth to Groundwater Date Measured												
			6/6/2000	12/11/2000	6/4/2001	12/4/2001	6/10/2002	12/16/2002	6/9/2003	12/8/2003	6/28/2004	12/20/2004	6/6/2005	12/5/2005	6/5/2006
	feet AMSL		feet BMP												
MW-1	344.8	346.8	29.57	29.9	abandoned	abandoned	abandoned	abandoned	abandoned	abandoned	abandoned	abandoned	abandoned	abandoned	abandoned
MW-2	284.7	286.5	9.35	9.40	8.13	11.31	10.91	6.37	7.60	8.01	10.16	11.02	6.15	12.24	9.05
MW-3	284.2	285.8	6.52	6.30	6.13	6.95	8.03	3.71	5.69	6.11	6.51	6.10	6.68	6.34	6.56
MW-4	293.1	294.7	damaged	damaged	damaged	damaged	damaged	damaged	damaged	damaged	damaged	damaged	abandoned	abandoned	abandoned
MW-4R	293	295.6	6.23	6.45	5.93	6.45	7.08	5.09	5.56	5.78	5.60	5.82	5.73	5.66	4.50
MW-5	297.7	299.8	12.70	11.75	13.13	11.55	11.42	7.58	11.59	11.74	12.65	11.62	12.49	12.08	12.35
MW-6	287.6	289.3	8.48	7.19	7.67	9.00	9.80	5.75	8.25	8.09	--	--	--	--	--
MW-6R [2]	288.6	291.4	na	na	na	na	na	na	na	na	15.60	14.50	15.60	15.80	15.58
MW-7	316.5	318.3	21.30	21.65	20.99	23.45	22.00	18.29	20.69	20.38	--	--	--	0.00	--
MW-7R [2]	315.7	318.2	na	na	na	na	na	na	na	na	20.48	18.66	20.39	19.04	19.30
MW-8	309.5	313.1	11.12	11.09	11.68	13.78	10.55	7.82	11.65	3.10	12.23	11.38	12.36	13.01	12.59
MW-9	357.7	358.1	10.67	13.55	11.12	16.64	14.62	8.48	10.40	damaged	abandoned	abandoned	abandoned	abandoned	abandoned
MW-9R [2]	358.8	361.5	na	na	na	na	na	na	na	na	12.45	26.95	11.85	15.22	14.00
P-1	NA	347.0	dry	dry	dry	dry	dry	3.84	--	4.09	abandoned	abandoned	abandoned	abandoned	abandoned
P-2	344.0	346.1	29.26	29.77	30.08	--	30.48	29.71	damaged	damaged	damaged	abandoned	abandoned	abandoned	abandoned
P-2R [2]	343.8	346.6	na	na	na	na	na	na	na	na	27.86	27.58	25.63	26.91	26.82
P-3	346.8	350.0	30.55	29.73	31.48	30.89	32.43	31.28	32.19	30.16	30.63	28.98	28.93	29.25	31.15
P-4	340.3	342.3	--	--	19.90	damaged	damaged	damaged	damaged	damaged	damaged	abandoned	abandoned	abandoned	abandoned
P-4R [2]	336.4	339.4	na	na	na	na	na	na	na	na	25.68	19.64	19.00	22.00	21.53
P-6	347.6	350.1	45.08	46.39	45.20	45.39	45.99	44.98	44.35	44.57	41.27	42.94	43.20	47.50	45.25

TABLE 8 (cont'd)
2000-2006 Groundwater Elevations
City of Durham Closed Landfill

WELL ID	Ground Surface Elevation [1]	Measuring Point Elevation [1]	Groundwater Elevation												
			Date Mesured												
			6/6/2000	12/11/2000	6/4/2001	12/4/2001	6/10/2002	12/16/2002	6/9/2003	12/8/2003	6/28/2004	12/20/2004	6/6/2005	12/5/2005	6/5/2006
	feet AMSL		feet AMSL												
MW-1	344.8	346.8	317.2	316.9	abandoned	abandoned	abandoned	abandoned	abandoned	abandoned	abandoned	abandoned			
MW-2	284.7	286.5	277.2	277.1	278.4	275.2	275.6	280.2	278.9	278.5	276.4	275.5	280.4	274.3	277.5
MW-3	284.2	285.8	279.3	279.5	279.7	278.9	277.8	282.1	280.1	279.7	279.3	279.7	279.2	279.5	279.3
MW-4	293.1	294.7	damaged	damaged	damaged	damaged	damaged	damaged	damaged	damaged	damaged	damaged			
MW-4R	293	295.6	288.9	288.7	289.2	288.7	288.0	290.0	289.5	289.3	289.5	289.3	289.4	289.4	290.6
MW-5	297.7	299.8	287.1	288.0	286.6	288.2	288.3	292.2	288.2	288.0	287.1	288.1	287.3	287.7	287.4
MW-6	287.6	289.3	280.8	282.1	281.6	280.3	279.5	283.5	281.0	281.2	--	--	--	--	--
MW-6R [2]	288.6	291.4	ni	ni	ni	ni	ni	ni	ni	ni	275.79	276.9	275.8	275.6	275.8
MW-7	316.5	318.3	297.0	296.6	297.3	294.8	296.3	300.0	297.6	297.9	--	--	--	--	--
MW-7R [2]	315.7	318.2	ni	ni	ni	ni	ni	ni	ni	ni	297.7	299.6	297.8	299.2	298.9
MW-8	309.5	313.1	302.0	302.0	301.4	299.3	302.6	305.3	301.5	310.0	300.9	301.7	300.7	300.1	300.5
MW-9	357.7	358.1	347.4	344.5	346.9	341.4	343.4	349.6	347.7	damaged	abandoned				
MW-9R [2]	358.8	361.5	ni	ni	ni	ni	ni	ni	ni	ni	349.0	334.5	349.6	346.3	347.5
P-1	NA	347.0	<342.6	<342.6	<342.6	<342.6	<342.6	343.1	--	342.9	abandoned				
P-2	344.0	346.1	316.8	316.3	316.0	--	315.6	316.4	damaged	damaged	damaged				
P-2R [2]	343.8	346.6	ni	ni	ni	ni	ni	ni	ni	ni	318.7	319.0	320.9	319.7	319.7
P-3	346.8	350.0	319.5	320.3	318.6	319.1	317.6	318.8	317.8	319.9	319.4	321.1	321.1	320.8	318.9
P-4	340.3	342.3	--	--	322.4	damaged	damaged	damaged	damaged	damaged	damaged				
P-4R [2]	336.4	339.4	ni	ni	ni	ni	ni	ni	ni	ni	313.7	319.8	320.4	317.4	317.9
P-6	347.6	350.1	305.0	303.7	304.9	304.7	304.1	305.1	305.8	305.5	308.8	307.2	306.9	302.6	304.9

[1] Elevations were surveyed by Barbara H. Maulkey Engi NA
[2] Measuring point elevation estimated.

ni - well not installed
-- not measured

Damaged - well damaged and destroyed
Abandoned - well abandoned

TABLE 9
Summary of Estimated Groundwater Flow Rates
City of Durham Closed Landfill

MEASUREMENT LOCATION	TOPOGRAPHY: Subsurface	LOCAL GROUNDWATER FLOW DIRECTION	AVERAGE HORIZ. GRADIENT	HYDRAULIC CONDUCTIVITY cm/s	ESTIMATED AVERAGE LINEAR FLOW VELOCITY ft/d
P-6 to MW-7R	GENTLE SLOPE: Clayey fine sand & silt, sandstone	N	0.02	5.44E-04	0.12
[illegible] MW-[illegible]	[illegible] Clayey silt	SSW	0.08	2.54E-03	[illegible]
MW-9R to P-6	SLOPE: Clayey fine sand & silt, sandstone	NNE	0.09	5.44E-04	0.71
MW-9R to P-2R	SLOPE: Fine sand & silt	WNW	0.08	8.87E-04	0.94
MW-4R to MW-3	FLOOD PLAIN: Weathered sandstone	NW	0.02	8.87E-04	0.23

cm/s – centimeters per second
ft/d – feet per day
horiz. - horizontal
Calculations for gradient and velocity in Appendix B, Table B-2.

APPENDIX A:

- Laboratory Analytical Reports and Chain-of-Custody Records

CITY OF DURHAM

GROUNDWATER MONOTORING WELL ANALYSIS
PARAMETER RESULTS MG/L
JUNE 2006
TOTAL METALS

SAMPLE ID	MW 2	MW 3	MW 4	MW 5	MW 6	MW 7	MW-8	S-1	S-2	S-3	S-4	P-6
SAMPLE DATE	06/06/06	06/06/06	06/06/06	06/06/06	06/06/06	06/06/06	06/06/06					06/06/06
ANALYTE												
ANTIMONY	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	XXXX	<0.005	<0.005	<0.005
ARSENIC	<0.005	[redacted]	<0.005	[redacted]	<0.005	<0.005	<0.005	<0.005	XXXX	<0.005	<0.005	<0.005
BARIUM	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	XXXX	<0.025	<0.025	[redacted]
BERYLLIUM	<0.001	<0.001	<0.001	0.002	<0.001	<0.001	<0.001	<0.001	XXXX	<0.001	<0.001	<0.001
CADMIUM	<0.001	<0.001	<0.001	<0.001	[redacted]	<0.001	<0.001	<0.001	XXXX	<0.001	<0.001	<0.001
CHROMIUM	[redacted]	[redacted]	<0.005	[redacted]	[redacted]	[redacted]	<0.005	<0.005	XXXX	<0.005	<0.005	[redacted]
COPPER	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	XXXX	[redacted]	[redacted]	[redacted]
LEAD	<0.005	<0.005	<0.005	[redacted]	[redacted]	<0.005	<0.005	<0.005	XXXX	<0.005	<0.0005	<0.005
NICKEL	<0.010	[redacted]	<0.010	[redacted]	[redacted]	<0.010	<0.010	<0.010	XXXX	<0.010	<0.010	[redacted]
SELENIUM	<0.005	[redacted]	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	XXXX	<0.005	<0.005	<0.005
SILVER	<0.001	[redacted]	<0.001	[redacted]	<0.001	<0.001	<0.001	<0.001	XXXX	<0.001	<0.001	<0.001
THALLIUM	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	XXXX	<0.001	<0.001	<0.001
VANADIUM	<0.005	<0.005	<0.005	[redacted]	[redacted]	[redacted]	<0.005	<0.005	XXXX	<0.005	<0.005	[redacted]
ZINC	[redacted]	[redacted]	<0.010	[redacted]	[redacted]	[redacted]	<0.010	[redacted]	XXXX	[redacted]	[redacted]	[redacted]

CC: Nancy Newell
ROY F. WESTON, INC

DATE ANALYZED : 6-09-06 THRU 6-15-06

ANALYZED BY : Lito Chiu
Lito Chiu

CITY OF DURHAM

GROUNDWATER MONOTORING WELL ANALYSIS
PARAMETER RESULTS MG/L
JUNE 2006
DISSOLVED METALS

SAMPLE ID	MW 2	MW 3	MW 4	MW 5	MW 6	MW 7	MW-8	S-1	S-2	S-3	S-4	P-6
SAMPLE DATE	06/06/06	06/06/06	06/06/06	06/06/06	06/06/06	06/06/06	06/06/06					06/06/06
ANALYTE												
ANTIMONY	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	XXXX	XXXX	XXXX	XXXX	<0.005
ARSENIC	<0.005	0.005	<0.005	0.005	<0.005	<0.005	<0.005	XXXX	XXXX	XXXX	XXXX	<0.005
BARIUM	0.057	0.950	0.660	2.381	0.799	0.797	0.071	XXXX	XXXX	XXXX	XXXX	0.485
BERYLLIUM	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	XXXX	XXXX	XXXX	XXXX	<0.001
CADMIUM	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	XXXX	XXXX	XXXX	XXXX	<0.001
CHROMIUM	0.005	<0.005	<0.005	0.038	0.007	0.007	<0.005	XXXX	XXXX	XXXX	XXXX	0.061
COPPER	<0.002	<0.002	<0.002	<0.002	0.002	<0.002	0.003	XXXX	XXXX	XXXX	XXXX	0.002
LEAD	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	XXXX	XXXX	XXXX	XXXX	<0.005
NICKEL	<0.010	<0.010	<0.010	0.018	0.015	<0.010	<0.010	XXXX	XXXX	XXXX	XXXX	0.05
SELENIUM	<0.005	0.005	<0.005	<0.005	<0.005	<0.005	<0.005	XXXX	XXXX	XXXX	XXXX	<0.005
SILVER	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	XXXX	XXXX	XXXX	XXXX	<0.001
THALLIUM	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	XXXX	XXXX	XXXX	XXXX	<0.001
VANADIUM	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	XXXX	XXXX	XXXX	XXXX	<0.005
ZINC	0.019	<0.010	<0.010	<0.010	0.010	<0.010	<0.010	XXXX	XXXX	XXXX	XXXX	<0.010

CC: Nancy Newell
ROY F. WESTON, INC

DATE ANALYZED : 6-09-06/6-15-06

ANALYZED BY : Lito Chiu
Lito Chiu

PRISM LABORATORIES, INC.

Case Narrative

Date:	06/28/06	**Client Project ID:**	Assessment Monitoring
Company:	Weston Solutions	**Prism COC Group No:**	G0606188
Contact:	Tara Rowland	**Collection Date(s):**	6/5/06 thru 6/6/06
Address:	4917 Waters Edge Suite 235 Raleigh, NC 27606	**Lab Submittal Date(s):**	06/07/06
		Client Project Name Or No:	Durham County Landfill

This data package contains the analytical results for the project identified above and includes a Case Narrative, Laboratory Report and Quality Control Data totaling 113 pages. A chain-of-custody is also attached for the samples submitted to Prism for this project.

Data qualifiers are flagged individually on each sample. A key reference for the data qualifiers appears at the end of this case narrative. Quality control statements and/or sample specific remarks are included in the sample comments section of the laboratory report for each sample affected.

Semi Volatile Analysis

Analysis Note for Q15582 LCS Pentachlorophenol: Recovery was above established QC limits. Compound was not detected in associated samples.

Analysis Note for Q15582 MS Pentachlorophenol: Recovery was outside of the control limits.

Analysis Note for Q15582 MSD Pentachlorophenol: Recovery was outside of the control limits.

Volatile Analysis

No Anomalies Reported

Metals Analysis

N/A

Wet Lab and Micro Analysis

No Anomalies Reported

Please call if you have any questions relating to this analytical report.

Date Reviewed by:	Paula A. Gilleland	**Project Manager:**	Angela D. Overcash
Signature:	Paula A. Gilleland	**Signature:**	
Review Date:	06/28/06	**Approval Date:**	06/28/06

Data Qualifiers Key Reference:

B: Compound also detected in the method blank.
#: Result outside of the QC limits.
DO: Compound diluted out.
E: Estimated concentration, calibration range exceeded.
J: The analyte was positively identified but the value is estimated below the reporting limit.
H: Estimated concentration with a high bias.
L: Estimated concentration with a low bias.
M: A matrix effect is present.

Notes: This report should not be reproduced, except in its entirety, without the writtten consent of Prism Laboratories, Inc. The results in this report relate only to the samples submitted for analysis.

449 Springbrook Road, P.O. Box 240543, Charlotte NC 28224-0403
Phone: 704/529-6364 Toll Free: 800/529-6364 Fax: 704/529-0409

NC Certification No. 402
SC Certification No. 99012
NC Drinking Water Cert. No. 37735

Full Service Analytical & Environmental Solutions

Laboratory Report

06/27/06

Weston Solutions
Attn: Tara Rowland
4917 Waters Edge
Suite 235
Raleigh, NC 27606

Project Name: Durham County Landfill
Project ID: Assessment Monitoring
Sample Matrix: Water

Client Sample ID: S-4
Prism Sample ID: 152767
COC Group: G0606188
Time Collected: 06/05/06 10:10
Time Submitted: 06/07/06 16:30

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Organochlorine Pesticides and PCBs by GC/ECD									
4,4'-DDD	BRL	µg/L	0.050	0.027	1	8081A	06/16/06 0:09	jvogel	Q15726
4,4'-DDE	BRL	µg/L	0.050	0.012	1	8081A	06/16/06 0:09	jvogel	Q15726
4,4'-DDT	BRL	µg/L	0.050	0.036	1	8081A	06/16/06 0:09	jvogel	Q15726
4,4'-Methoxychlor	BRL	µg/L	0.050	0.045	1	8081A	06/16/06 0:09	jvogel	Q15726
a-BHC	BRL	µg/L	0.050	0.010	1	8081A	06/16/06 0:09	jvogel	Q15726
Aldrin	BRL	µg/L	0.050	0.018	1	8081A	06/16/06 0:09	jvogel	Q15726
b-BHC	BRL	µg/L	0.050	0.021	1	8081A	06/16/06 0:09	jvogel	Q15726
Chlordane	BRL	µg/L	0.50	0.10	1	8081A	06/16/06 0:09	jvogel	Q15726
d-BHC	BRL	µg/L	0.050	0.015	1	8081A	06/16/06 0:09	jvogel	Q15726
Dieldrin	BRL	µg/L	0.050	0.013	1	8081A	06/16/06 0:09	jvogel	Q15726
Endosulfan I	BRL	µg/L	0.050	0.010	1	8081A	06/16/06 0:09	jvogel	Q15726
Endosulfan II	BRL	µg/L	0.050	0.019	1	8081A	06/16/06 0:09	jvogel	Q15726
Endosulfan Sulfate	BRL	µg/L	0.050	0.024	1	8081A	06/16/06 0:09	jvogel	Q15726
Endrin	BRL	µg/L	0.050	0.027	1	8081A	06/16/06 0:09	jvogel	Q15726
Endrin Aldehyde	BRL	µg/L	0.050	0.014	1	8081A	06/16/06 0:09	jvogel	Q15726
Endrin Ketone	BRL	µg/L	0.050	0.018	1	8081A	06/16/06 0:09	jvogel	Q15726
g-BHC	BRL	µg/L	0.050	0.021	1	8081A	06/16/06 0:09	jvogel	Q15726
Heptachlor	BRL	µg/L	0.050	0.022	1	8081A	06/16/06 0:09	jvogel	Q15726
Heptachlor Epoxide	BRL	µg/L	0.050	0.018	1	8081A	06/16/06 0:09	jvogel	Q15726
Toxaphene	BRL	µg/L	0.50	0.23	1	8081A	06/16/06 0:09	jvogel	Q15726
Sample Preparation:			1030 mL /		10 mL	3510C	06/12/06 9:00	smanivanh	P15597

Surrogate	% Recovery	Control Limits
Tetrachloro-m-xylene (TCMX)	91	40 - 134
Decachlorobiphenyl (DCB)	100	13 - 186

Polychlorinated Biphenyls (PCBs) by GC-ECD									
PCB-1016	BRL	µg/L	0.50	0.17	1	8082	06/16/06 0:09	jvogel	Q15728

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NC Certification No. 402
SC Certification No. 99012
NC Drinking Water Cert. No. 37735

Full Service Analytical & Environmental Solutions

Laboratory Report

06/27/06

Weston Solutions
Attn: Tara Rowland
4917 Waters Edge
Suite 235
Raleigh, NC 27606

Project Name: Durham County Landfill
Project ID: Assessment Monitoring
Sample Matrix: Water

Client Sample ID: S-4
Prism Sample ID: 152767
COC Group: G0606188
Time Collected: 06/05/06 10:10
Time Submitted: 06/07/06 16:30

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
PCB-1221	**BRL**	µg/L	1.0	0.33	1	8082	06/16/06 0:09	jvogel	Q15728
PCB-1232	**BRL**	µg/L	0.50	0.25	1	8082	06/16/06 0:09	jvogel	Q15728
PCB-1242	**BRL**	µg/L	1.0	0.36	1	8082	06/16/06 0:09	jvogel	Q15728
PCB-1248	**BRL**	µg/L	0.50	0.25	1	8082	06/16/06 0:09	jvogel	Q15728
PCB-1254	**BRL**	µg/L	0.50	0.25	1	8082	06/16/06 0:09	jvogel	Q15728
PCB-1260	**BRL**	µg/L	0.50	0.26	1	8082	06/16/06 0:09	jvogel	Q15728
Sample Preparation:			1030 mL / 10 mL			3510C	06/12/06 9:00	smanivanh	P15598

Surrogate	% Recovery	Control Limits
Tetrachloro-m-xylene (TCMX)	95	30 - 161
Decachlorobiphenyl (DCB)	100	32 - 178

Volatile Organic Compounds by GC/MS

1,1,1,2-Tetrachloroethane	**BRL**	µg/L	1.0	0.40	1	8260B	06/15/06 16:15	kcampigotto	Q15627
1,1,1-Trichloroethane	**BRL**	µg/L	1.0	0.45	1	8260B	06/15/06 16:15	kcampigotto	Q15627
1,1,2,2-Tetrachloroethane	**BRL**	µg/L	1.0	0.30	1	8260B	06/15/06 16:15	kcampigotto	Q15627
1,1,2-Trichloroethane	**BRL**	µg/L	1.0	0.42	1	8260B	06/15/06 16:15	kcampigotto	Q15627
1,1-Dichloroethane	**BRL**	µg/L	1.0	0.38	1	8260B	06/15/06 16:15	kcampigotto	Q15627
1,1-Dichloroethene	**BRL**	µg/L	1.0	0.43	1	8260B	06/15/06 16:15	kcampigotto	Q15627
1,1-Dichloropropene	**BRL**	µg/L	1.0	0.39	1	8260B	06/15/06 16:15	kcampigotto	Q15627
1,2,3-Trichlorobenzene	**BRL**	µg/L	2.0	0.57	1	8260B	06/15/06 16:15	kcampigotto	Q15627
1,2,3-Trichloropropane	**BRL**	µg/L	1.0	0.50	1	8260B	06/15/06 16:15	kcampigotto	Q15627
1,2,4-Trichlorobenzene	**BRL**	µg/L	1.0	0.42	1	8260B	06/15/06 16:15	kcampigotto	Q15627
1,2-Dibromo-3-chloropropane	**BRL**	µg/L	2.0	0.56	1	8260B	06/15/06 16:15	kcampigotto	Q15627
1,2-Dibromoethane (EDB)	**BRL**	µg/L	1.0	0.46	1	8260B	06/15/06 16:15	kcampigotto	Q15627
1,2-Dichlorobenzene	**BRL**	µg/L	1.0	0.27	1	8260B	06/15/06 16:15	kcampigotto	Q15627
1,2-Dichloroethane	**BRL**	µg/L	1.0	0.36	1	8260B	06/15/06 16:15	kcampigotto	Q15627
1,2-Dichloropropane	**BRL**	µg/L	1.0	0.26	1	8260B	06/15/06 16:15	kcampigotto	Q15627

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NC Drinking Water Cert. No. 37735

Full Service Analytical & Environmental Solutions

Laboratory Report

06/27/06

Weston Solutions
Attn: Tara Rowland
4917 Waters Edge
Suite 235
Raleigh, NC 27606

Project Name: Durham County Landfill
Project ID: Assessment Monitoring
Sample Matrix: Water

Client Sample ID: S-4
Prism Sample ID: 152767
COC Group: G0606188
Time Collected: 06/05/06 10:10
Time Submitted: 06/07/06 16:30

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
1,3-Dichlorobenzene	BRL	µg/L	1.0	0.22	1	8260B	06/15/06 16:15	kcampigotto	Q15627
1,3-Dichloropropane	BRL	µg/L	1.0	0.26	1	8260B	06/15/06 16:15	kcampigotto	Q15627
1,4-Dichlorobenzene	BRL	µg/L	1.0	0.32	1	8260B	06/15/06 16:15	kcampigotto	Q15627
2,2-Dichloropropane	BRL	µg/L	2.0	0.73	1	8260B	06/15/06 16:15	kcampigotto	Q15627
2-Hexanone	BRL	µg/L	5.0	0.38	1	8260B	06/15/06 16:15	kcampigotto	Q15627
4-Methyl-2-pentanone (MIBK)	BRL	µg/L	5.0	0.32	1	8260B	06/15/06 16:15	kcampigotto	Q15627
Acetone	BRL	µg/L	10	2.5	1	8260B	06/15/06 16:15	kcampigotto	Q15627
Acetonitrile	BRL	µg/L	20	5.0	1	8260B	06/15/06 16:15	kcampigotto	Q15627
Acrolein	BRL	µg/L	100	4.5	1	8260B	06/15/06 16:15	kcampigotto	Q15627
Acrylonitrile	BRL	µg/L	100	0.65	1	8260B	06/15/06 16:15	kcampigotto	Q15627
Allyl chloride	BRL	µg/L	10	5.0	1	8260B	06/15/06 16:15	kcampigotto	Q15627
Benzene	BRL	µg/L	0.50	0.14	1	8260B	06/15/06 16:15	kcampigotto	Q15627
Bromochloromethane	BRL	µg/L	1.0	0.31	1	8260B	06/15/06 16:15	kcampigotto	Q15627
Bromodichloromethane	BRL	µg/L	1.0	0.31	1	8260B	06/15/06 16:15	kcampigotto	Q15627
Bromoform	BRL	µg/L	1.0	0.39	1	8260B	06/15/06 16:15	kcampigotto	Q15627
Bromomethane	BRL	µg/L	3.0	1.1	1	8260B	06/15/06 16:15	kcampigotto	Q15627
Carbon disulfide	BRL	µg/L	5.0	0.71	1	8260B	06/15/06 16:15	kcampigotto	Q15627
Carbon tetrachloride	BRL	µg/L	2.0	0.52	1	8260B	06/15/06 16:15	kcampigotto	Q15627
Chlorobenzene	BRL	µg/L	1.0	0.24	1	8260B	06/15/06 16:15	kcampigotto	Q15627
Chlorodibromomethane	BRL	µg/L	1.0	0.10	1	8260B	06/15/06 16:15	kcampigotto	Q15627
Chloroethane	BRL	µg/L	5.0	1.6	1	8260B	06/15/06 16:15	kcampigotto	Q15627
Chloroform	0.85 J	µg/L	1.0	0.35	1	8260B	06/15/06 16:15	kcampigotto	Q15627
Chloromethane	BRL	µg/L	2.0	0.47	1	8260B	06/15/06 16:15	kcampigotto	Q15627
Chloroprene	BRL	µg/L	10	5.0	1	8260B	06/15/06 16:15	kcampigotto	Q15627
cis-1,2-Dichloroethene	BRL	µg/L	1.0	0.47	1	8260B	06/15/06 16:15	kcampigotto	Q15627
cis-1,3-Dichloropropene	BRL	µg/L	1.0	0.29	1	8260B	06/15/06 16:15	kcampigotto	Q15627
Dibromomethane	BRL	µg/L	1.0	0.34	1	8260B	06/15/06 16:15	kcampigotto	Q15627
Dichlorodifluoromethane	BRL	µg/L	2.0	0.26	1	8260B	06/15/06 16:15	kcampigotto	Q15627

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Full Service Analytical & Environmental Solutions

Laboratory Report

06/27/06

Weston Solutions
Attn: Tara Rowland
4917 Waters Edge
Suite 235
Raleigh, NC 27606

Project Name: Durham County Landfill
Project ID: Assessment Monitoring
Sample Matrix: Water

Client Sample ID: S-4
Prism Sample ID: 152767
COC Group: G0606188
Time Collected: 06/05/06 10:10
Time Submitted: 06/07/06 16:30

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Ethyl methacrylate	**BRL**	µg/L	10	5.0	1	8260B	06/15/06 16:15	kcampigotto	Q15627
Ethylbenzene	**BRL**	µg/L	1.0	0.32	1	8260B	06/15/06 16:15	kcampigotto	Q15627
Isobutyl alcohol	**BRL**	µg/L	10	5.0	1	8260B	06/15/06 16:15	kcampigotto	Q15627
m,p-Xylenes	**BRL**	µg/L	2.0	0.51	1	8260B	06/15/06 16:15	kcampigotto	Q15627
Methacrylonitrile	**BRL**	µg/L	10	5.0	1	8260B	06/15/06 16:15	kcampigotto	Q15627
Methyl ethyl ketone (MEK)	**BRL**	µg/L	5.0	0.81	1	8260B	06/15/06 16:15	kcampigotto	Q15627
Methyl iodide	**BRL**	µg/L	5.0	2.0	1	8260B	06/15/06 16:15	kcampigotto	Q15627
Methyl methacrylate	**BRL**	µg/L	10	5.0	1	8260B	06/15/06 16:15	kcampigotto	Q15627
Methylene chloride	**BRL**	µg/L	2.0	0.61	1	8260B	06/15/06 16:15	kcampigotto	Q15627
o-Xylene	**BRL**	µg/L	1.0	0.24	1	8260B	06/15/06 16:15	kcampigotto	Q15627
Propionitrile	**BRL**	µg/L	10	5.0	1	8260B	06/15/06 16:15	kcampigotto	Q15627
Styrene	**BRL**	µg/L	1.0	0.22	1	8260B	06/15/06 16:15	kcampigotto	Q15627
Tetrachloroethene	**BRL**	µg/L	1.0	0.49	1	8260B	06/15/06 16:15	kcampigotto	Q15627
Toluene	**BRL**	µg/L	1.0	0.39	1	8260B	06/15/06 16:15	kcampigotto	Q15627
trans-1,2-Dichloroethene	**BRL**	µg/L	2.0	0.56	1	8260B	06/15/06 16:15	kcampigotto	Q15627
trans-1,3-Dichloropropene	**BRL**	µg/L	1.0	0.38	1	8260B	06/15/06 16:15	kcampigotto	Q15627
trans-1,4-Dichloro-2-butene	**BRL**	µg/L	10	5.0	1	8260B	06/15/06 16:15	kcampigotto	Q15627
Trichloroethene	**BRL**	µg/L	2.0	0.52	1	8260B	06/15/06 16:15	kcampigotto	Q15627
Trichlorofluoromethane	**BRL**	µg/L	2.0	0.65	1	8260B	06/15/06 16:15	kcampigotto	Q15627
Vinyl acetate	**BRL**	µg/L	20	10	1	8260B	06/15/06 16:15	kcampigotto	Q15627
Vinyl chloride	**BRL**	µg/L	2.0	0.60	1	8260B	06/15/06 16:15	kcampigotto	Q15627

Surrogate	% Recovery	Control Limits
Toluene-d8	93	75 - 121
Dibromofluoromethane	102	74 - 133
Bromofluorobenzene	97	69 - 139

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Full Service Analytical & Environmental Solutions

Laboratory Report

06/27/06

Weston Solutions
Attn: Tara Rowland
4917 Waters Edge
Suite 235
Raleigh, NC 27606

Project Name: Durham County Landfill
Project ID: Assessment Monitoring
Sample Matrix: Water

Client Sample ID: S-4
Prism Sample ID: 152767
COC Group: G0606188
Time Collected: 06/05/06 10:10
Time Submitted: 06/07/06 16:30

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Semi-volatile Organics by GC/MS									
1,2,4,5-Tetrachlorobenzene	**BRL**	µg/L	10	5.0	1	8270C	06/15/06 21:55	kelliot	Q15582
1,3,5-Trinitrobenzene	**BRL**	µg/L	10	5.0	1	8270C	06/15/06 21:55	kelliot	Q15582
1,3-Dinitrobenzene	**BRL**	µg/L	10	5.0	1	8270C	06/15/06 21:55	kelliot	Q15582
1,4-Diphenylenediamine	**BRL**	µg/L	10	5.0	1	8270C	06/15/06 21:55	kelliot	Q15582
1,4-Napthaquinone	**BRL**	µg/L	10	5.0	1	8270C	06/15/06 21:55	kelliot	Q15582
1-Napthylamine	**BRL**	µg/L	10	5.0	1	8270C	06/15/06 21:55	kelliot	Q15582
2,3,4,6-Tetrachlorophenol	**BRL**	µg/L	10	5.0	1	8270C	06/15/06 21:55	kelliot	Q15582
2,4,5-Trichlorophenol	**BRL**	µg/L	9.9	2.6	1	8270C	06/15/06 21:55	kelliot	Q15582
2,4,6-Trichlorophenol	**BRL**	µg/L	9.9	2.5	1	8270C	06/15/06 21:55	kelliot	Q15582
2,4-Dichlorophenol	**BRL**	µg/L	9.9	2.4	1	8270C	06/15/06 21:55	kelliot	Q15582
2,4-Dimethylphenol	**BRL**	µg/L	9.9	2.9	1	8270C	06/15/06 21:55	kelliot	Q15582
2,4-Dinitrophenol	**BRL**	µg/L	9.9	2.2	1	8270C	06/15/06 21:55	kelliot	Q15582
2,4-Dinitrotoluene	**BRL**	µg/L	9.9	1.3	1	8270C	06/15/06 21:55	kelliot	Q15582
2,6-Dichlorophenol	**BRL**	µg/L	10	5.0	1	8270C	06/15/06 21:55	kelliot	Q15582
2,6-Dinitrotoluene	**BRL**	µg/L	9.9	1.3	1	8270C	06/15/06 21:55	kelliot	Q15582
2-Acetylaminofluorene	**BRL**	µg/L	10	5.0	1	8270C	06/15/06 21:55	kelliot	Q15582
2-Chloronaphthalene	**BRL**	µg/L	9.9	2.2	1	8270C	06/15/06 21:55	kelliot	Q15582
2-Chlorophenol	**BRL**	µg/L	9.9	2.4	1	8270C	06/15/06 21:55	kelliot	Q15582
2-Methylnaphthalene	**BRL**	µg/L	9.9	1.8	1	8270C	06/15/06 21:55	kelliot	Q15582
2-Methylphenol	**BRL**	µg/L	9.9	2.8	1	8270C	06/15/06 21:55	kelliot	Q15582
2-Napthylamine	**BRL**	µg/L	10	5.0	1	8270C	06/15/06 21:55	kelliot	Q15582
2-Nitroaniline	**BRL**	µg/L	9.9	2.1	1	8270C	06/15/06 21:55	kelliot	Q15582
2-Nitrophenol	**BRL**	µg/L	9.9	3.1	1	8270C	06/15/06 21:55	kelliot	Q15582
3&4-Methylphenol	**BRL**	µg/L	9.9	3.7	1	8270C	06/15/06 21:55	kelliot	Q15582
3,3'-Dichlorobenzidine	**BRL**	µg/L	9.9	2.5	1	8270C	06/15/06 21:55	kelliot	Q15582
3,3'-Dimethylbenzidine	**BRL**	µg/L	10	5.0	1	8270C	06/15/06 21:55	kelliot	Q15582
3-Methylcholanthrene	**BRL**	µg/L	10	5.0	1	8270C	06/15/06 21:55	kelliot	Q15582

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Laboratory Report

06/27/06

Weston Solutions
Attn: Tara Rowland
4917 Waters Edge
Suite 235
Raleigh, NC 27606

Project Name: Durham County Landfill
Project ID: Assessment Monitoring
Sample Matrix: Water

Client Sample ID: S-4
Prism Sample ID: 152767
COC Group: G0606188
Time Collected: 06/05/06 10:10
Time Submitted: 06/07/06 16:30

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
3-Nitroaniline	**BRL**	µg/L	9.9	1.8	1	8270C	06/15/06 21:55	kelliot	Q15582
4,6-Dinitro-2-methylphenol	**BRL**	µg/L	9.9	1.2	1	8270C	06/15/06 21:55	kelliot	Q15582
4-Aminobiphenyl	**BRL**	µg/L	10	5.0	1	8270C	06/15/06 21:55	kelliot	Q15582
4-Bromophenylphenylether	**BRL**	µg/L	9.9	1.5	1	8270C	06/15/06 21:55	kelliot	Q15582
4-Chloro-3-methylphenol	**BRL**	µg/L	9.9	1.8	1	8270C	06/15/06 21:55	kelliot	Q15582
4-Chloroaniline	**BRL**	µg/L	9.9	2.5	1	8270C	06/15/06 21:55	kelliot	Q15582
4-Chlorophenylphenylether	**BRL**	µg/L	9.9	1.9	1	8270C	06/15/06 21:55	kelliot	Q15582
4-Nitroaniline	**BRL**	µg/L	9.9	1.8	1	8270C	06/15/06 21:55	kelliot	Q15582
4-Nitrophenol	**BRL**	µg/L	9.9	0.54	1	8270C	06/15/06 21:55	kelliot	Q15582
5-Nitro-o-toluidine	**BRL**	µg/L	10	5.0	1	8270C	06/15/06 21:55	kelliot	Q15582
7,12-Dimethylbenz(a)anthracen	**BRL**	µg/L	10	5.0	1	8270C	06/15/06 21:55	kelliot	Q15582
Acenaphthene	**BRL**	µg/L	9.9	2.2	1	8270C	06/15/06 21:55	kelliot	Q15582
Acenaphthylene	**BRL**	µg/L	9.9	2.0	1	8270C	06/15/06 21:55	kelliot	Q15582
Acetophenone	**BRL**	µg/L	10	5.0	1	8270C	06/15/06 21:55	kelliot	Q15582
Anthracene	**BRL**	µg/L	9.9	0.76	1	8270C	06/15/06 21:55	kelliot	Q15582
Benzo(a)anthracene	**BRL**	µg/L	9.9	1.2	1	8270C	06/15/06 21:55	kelliot	Q15582
Benzo(a)pyrene	**BRL**	µg/L	9.9	0.91	1	8270C	06/15/06 21:55	kelliot	Q15582
Benzo(b)fluoranthene	**BRL**	µg/L	9.9	1.1	1	8270C	06/15/06 21:55	kelliot	Q15582
Benzo(g,h,i)perylene	**BRL**	µg/L	9.9	1.3	1	8270C	06/15/06 21:55	kelliot	Q15582
Benzo(k)fluoranthene	**BRL**	µg/L	9.9	1.1	1	8270C	06/15/06 21:55	kelliot	Q15582
Benzyl alcohol	**BRL**	µg/L	9.9	1.8	1	8270C	06/15/06 21:55	kelliot	Q15582
Bis(2-chloroethoxy)methane	**BRL**	µg/L	9.9	2.3	1	8270C	06/15/06 21:55	kelliot	Q15582
Bis(2-chloroethyl)ether	**BRL**	µg/L	9.9	2.8	1	8270C	06/15/06 21:55	kelliot	Q15582
Bis(2-chloroisopropyl)ether	**BRL**	µg/L	9.9	2.8	1	8270C	06/15/06 21:55	kelliot	Q15582
Bis(2-ethylhexyl)phthalate	**BRL**	µg/L	9.9	1.2	1	8270C	06/15/06 21:55	kelliot	Q15582
Butylbenzylphthalate	**BRL**	µg/L	9.9	0.74	1	8270C	06/15/06 21:55	kelliot	Q15582
Chlorobenzilate	**BRL**	µg/L	10	5.0	1	8270C	06/15/06 21:55	kelliot	Q15582
Chrysene	**BRL**	µg/L	9.9	0.94	1	8270C	06/15/06 21:55	kelliot	Q15582

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NC Certification No. 402
SC Certification No. 99012
NC Drinking Water Cert. No. 37735

Full Service Analytical & Environmental Solutions

Laboratory Report

06/27/06

Weston Solutions
Attn: Tara Rowland
4917 Waters Edge
Suite 235
Raleigh, NC 27606

Project Name: Durham County Landfill
Project ID: Assessment Monitoring
Sample Matrix: Water

Client Sample ID: S-4
Prism Sample ID: 152767
COC Group: G0606188
Time Collected: 06/05/06 10:10
Time Submitted: 06/07/06 16:30

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Di-n-butylphthalate	BRL	µg/L	9.9	0.85	1	8270C	06/15/06 21:55	kelliot	Q15582
Di-n-octylphthalate	BRL	µg/L	9.9	2.0	1	8270C	06/15/06 21:55	kelliot	Q15582
Diallate	BRL	µg/L	10	5.0	1	8270C	06/15/06 21:55	kelliot	Q15582
Dibenzo(a,h)anthracene	BRL	µg/L	9.9	1.5	1	8270C	06/15/06 21:55	kelliot	Q15582
Dibenzofuran	BRL	µg/L	9.9	2.2	1	8270C	06/15/06 21:55	kelliot	Q15582
Diethylphthalate	BRL	µg/L	9.9	1.5	1	8270C	06/15/06 21:55	kelliot	Q15582
Dimethoate	BRL	µg/L	10	5.0	1	8270C	06/15/06 21:55	kelliot	Q15582
Dimethylphthalate	BRL	µg/L	9.9	2.1	1	8270C	06/15/06 21:55	kelliot	Q15582
Dinoseb	BRL	µg/L	10	5.0	1	8270C	06/15/06 21:55	kelliot	Q15582
Diphenylamine	BRL	µg/L	10	5.0	1	8270C	06/15/06 21:55	kelliot	Q15582
Disulfoton	BRL	µg/L	10	5.0	1	8270C	06/15/06 21:55	kelliot	Q15582
Ethylmethane sulfonate	BRL	µg/L	10	5.0	1	8270C	06/15/06 21:55	kelliot	Q15582
Famphur	BRL	µg/L	10	5.0	1	8270C	06/15/06 21:55	kelliot	Q15582
Fluoranthene	BRL	µg/L	9.9	0.61	1	8270C	06/15/06 21:55	kelliot	Q15582
Fluorene	BRL	µg/L	9.9	2.4	1	8270C	06/15/06 21:55	kelliot	Q15582
Hexachlorobenzene	BRL	µg/L	9.9	1.1	1	8270C	06/15/06 21:55	kelliot	Q15582
Hexachlorobutadiene	BRL	µg/L	9.9	1.9	1	8270C	06/15/06 21:55	kelliot	Q15582
Hexachlorocyclopentadiene	BRL	µg/L	9.9	2.4	1	8270C	06/15/06 21:55	kelliot	Q15582
Hexachloroethane	BRL	µg/L	9.9	2.1	1	8270C	06/15/06 21:55	kelliot	Q15582
Hexachloropropene	BRL	µg/L	10	5.0	1	8270C	06/15/06 21:55	kelliot	Q15582
Indeno(1,2,3-cd)pyrene	BRL	µg/L	9.9	1.8	1	8270C	06/15/06 21:55	kelliot	Q15582
Isodrin	BRL	µg/L	10	5.0	1	8270C	06/15/06 21:55	kelliot	Q15582
Isophorone	BRL	µg/L	9.9	3.0	1	8270C	06/15/06 21:55	kelliot	Q15582
Isosafrole	BRL	µg/L	10	5.0	1	8270C	06/15/06 21:55	kelliot	Q15582
Kepone	BRL	µg/L	10	5.0	1	8270C	06/15/06 21:55	kelliot	Q15582
Methapyrilene	BRL	µg/L	10	5.0	1	8270C	06/15/06 21:55	kelliot	Q15582
Methyl parathion	BRL	µg/L	9.9	5.0	1	8270C	06/15/06 21:55	kelliot	Q15582
Methylmethane sulfonate	BRL	µg/L	10	5.0	1	8270C	06/15/06 21:55	kelliot	Q15582

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Full Service Analytical & Environmental Solutions

Laboratory Report

06/27/06

Weston Solutions
Attn: Tara Rowland
4917 Waters Edge
Suite 235
Raleigh, NC 27606

Project Name: Durham County Landfill
Project ID: Assessment Monitoring
Sample Matrix: Water

Client Sample ID: S-4
Prism Sample ID: 152767
COC Group: G0606188
Time Collected: 06/05/06 10:10
Time Submitted: 06/07/06 16:30

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
N-Nitrosodi-n-propylamine	**BRL**	µg/L	9.9	2.7	1	8270C	06/15/06 21:55	kelliot	Q15582
N-Nitrosodibutylamine	**BRL**	µg/L	10	5.0	1	8270C	06/15/06 21:55	kelliot	Q15582
N-Nitrosodiethylamine	**BRL**	µg/L	10	5.0	1	8270C	06/15/06 21:55	kelliot	Q15582
N-Nitrosodimethylamine	**BRL**	µg/L	9.9	0.98	1	8270C	06/15/06 21:55	kelliot	Q15582
N-Nitrosodimethylethylamine	**BRL**	µg/L	10	5.0	1	8270C	06/15/06 21:55	kelliot	Q15582
N-Nitrosodiphenylamine	**BRL**	µg/L	9.9	1.5	1	8270C	06/15/06 21:55	kelliot	Q15582
n-Nitrosopiperidine	**BRL**	µg/L	10	5.0	1	8270C	06/15/06 21:55	kelliot	Q15582
N-Nitrosopyrrolidine	**BRL**	µg/L	10	5.0	1	8270C	06/15/06 21:55	kelliot	Q15582
Naphthalene	**BRL**	µg/L	9.9	1.9	1	8270C	06/15/06 21:55	kelliot	Q15582
Nitrobenzene	**BRL**	µg/L	9.9	2.4	1	8270C	06/15/06 21:55	kelliot	Q15582
o,o,o-Triethylphosphorthioate	**BRL**	µg/L	10	5.0	1	8270C	06/15/06 21:55	kelliot	Q15582
o-Toluidine	**BRL**	µg/L	10	5.0	1	8270C	06/15/06 21:55	kelliot	Q15582
p-Dimethylaminoazobenzene	**BRL**	µg/L	10	5.0	1	8270C	06/15/06 21:55	kelliot	Q15582
Pentachlorobenzene	**BRL**	µg/L	10	5.0	1	8270C	06/15/06 21:55	kelliot	Q15582
Pentachloronitrobenzene	**BRL**	µg/L	10	5.0	1	8270C	06/15/06 21:55	kelliot	Q15582
Pentachlorophenol	**BRL**	µg/L	9.9	0.64	1	8270C	06/15/06 21:55	kelliot	Q15582
Phenacetin	**BRL**	µg/L	10	5.0	1	8270C	06/15/06 21:55	kelliot	Q15582
Phenanthrene	**BRL**	µg/L	9.9	0.57	1	8270C	06/15/06 21:55	kelliot	Q15582
Phenol	**BRL**	µg/L	9.9	3.8	1	8270C	06/15/06 21:55	kelliot	Q15582
Phorate	**BRL**	µg/L	10	5.0	1	8270C	06/15/06 21:55	kelliot	Q15582
Pronamide	**BRL**	µg/L	10	5.0	1	8270C	06/15/06 21:55	kelliot	Q15582
Pyrene	**BRL**	µg/L	9.9	1.1	1	8270C	06/15/06 21:55	kelliot	Q15582
Safrole	**BRL**	µg/L	10	5.0	1	8270C	06/15/06 21:55	kelliot	Q15582
Thionazin	**BRL**	µg/L	10	5.0	1	8270C	06/15/06 21:55	kelliot	Q15582

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Laboratory Report

06/27/06

Weston Solutions
Attn: Tara Rowland
4917 Waters Edge
Suite 235
Raleigh, NC 27606

Project Name: Durham County Landfill
Project ID: Assessment Monitoring
Sample Matrix: Water

Client Sample ID: S-4
Prism Sample ID: 152767
COC Group: G0606188
Time Collected: 06/05/06 10:10
Time Submitted: 06/07/06 16:30

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Sample Preparation:			1010 mL /		1 mL	3510C	06/10/06 9:00	smanivanh	P15587

Surrogate	% Recovery	Control Limits
Terphenyl-d14	112	41 - 136
Phenol-d5	14	10 - 78
Nitrobenzene-d5	100	13 - 107
2-Fluorophenol	31	10 - 75
2-Fluorobiphenyl	102	27 - 107
2,4,6-Tribromophenol	109	38 - 117

Cyanide by Colorimetric Method									
Cyanide, Total	[redacted]	mg/L	0.0020	0.0016	1	9014	06/16/06 11:16	cmatthews	Q15692
Sample Preparation:			500 mL /		500 mL	9010	06/14/06 15:25	cmatthews	P15642
Sulfide by Iodometric Method									
Sulfide	[redacted]	mg/L	2.0	0.094	1	376.1	06/12/06 8:00	cmatthews	Q15504

Sample Comment(s):

BRL = Below Reporting Limit
J = Estimated value between the Reporting Limit and the MDL
The results in this report relate only to the samples submitted for analysis and meet state certification requirements other than NELAC certification except for those instances indicated in the case narrative and/or test comments.

Angela D. Overcash, V.P. Laboratory Services

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06/27/06

Weston Solutions
Attn: Tara Rowland
4917 Waters Edge
Suite 235
Raleigh, NC 27606

Project Name: Durham County Landfill
Project ID: Assessment Monitoring
Sample Matrix: Water

Client Sample ID: S-3
Prism Sample ID: 152768
COC Group: G0606188
Time Collected: 06/05/06 10:50
Time Submitted: 06/07/06 16:30

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Organochlorine Pesticides and PCBs by GC/ECD									
4,4'-DDD	BRL	µg/L	0.050	0.027	1	8081A	06/15/06 22:45	jvogel	Q15726
4,4'-DDE	BRL	µg/L	0.050	0.012	1	8081A	06/15/06 22:45	jvogel	Q15726
4,4'-DDT	BRL	µg/L	0.050	0.036	1	8081A	06/15/06 22:45	jvogel	Q15726
4,4'-Methoxychlor	BRL	µg/L	0.050	0.045	1	8081A	06/15/06 22:45	jvogel	Q15726
a-BHC	BRL	µg/L	0.050	0.010	1	8081A	06/15/06 22:45	jvogel	Q15726
Aldrin	BRL	µg/L	0.050	0.018	1	8081A	06/15/06 22:45	jvogel	Q15726
b-BHC	BRL	µg/L	0.050	0.021	1	8081A	06/15/06 22:45	jvogel	Q15726
Chlordane	BRL	µg/L	0.50	0.10	1	8081A	06/15/06 22:45	jvogel	Q15726
d-BHC	BRL	µg/L	0.050	0.015	1	8081A	06/15/06 22:45	jvogel	Q15726
Dieldrin	BRL	µg/L	0.050	0.013	1	8081A	06/15/06 22:45	jvogel	Q15726
Endosulfan I	BRL	µg/L	0.050	0.010	1	8081A	06/15/06 22:45	jvogel	Q15726
Endosulfan II	BRL	µg/L	0.050	0.019	1	8081A	06/15/06 22:45	jvogel	Q15726
Endosulfan Sulfate	BRL	µg/L	0.050	0.024	1	8081A	06/15/06 22:45	jvogel	Q15726
Endrin	BRL	µg/L	0.050	0.027	1	8081A	06/15/06 22:45	jvogel	Q15726
Endrin Aldehyde	BRL	µg/L	0.050	0.014	1	8081A	06/15/06 22:45	jvogel	Q15726
g-BHC	BRL	µg/L	0.050	0.021	1	8081A	06/15/06 22:45	jvogel	Q15726
Heptachlor	BRL	µg/L	0.050	0.022	1	8081A	06/15/06 22:45	jvogel	Q15726
Heptachlor Epoxide	BRL	µg/L	0.050	0.018	1	8081A	06/15/06 22:45	jvogel	Q15726
Toxaphene	BRL	µg/L	0.50	0.23	1	8081A	06/15/06 22:45	jvogel	Q15726
Sample Preparation:			1030 mL / 10 mL			3510C	06/12/06 9:00	smanivanh	P15597

Surrogate	% Recovery	Control Limits
Tetrachloro-m-xylene (TCMX)	92	40 - 134
Decachlorobiphenyl (DCB)	98	13 - 186

Polychlorinated Biphenyls (PCBs) by GC-ECD									
PCB-1016	BRL	µg/L	0.50	0.17	1	8082	06/15/06 22:45	jvogel	Q15728
PCB-1221	BRL	µg/L	1.0	0.33	1	8082	06/15/06 22:45	jvogel	Q15728

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06/27/06

Weston Solutions
Attn: Tara Rowland
4917 Waters Edge
Suite 235
Raleigh, NC 27606

Project Name: Durham County Landfill
Project ID: Assessment Monitoring
Sample Matrix: Water

Client Sample ID: S-3
Prism Sample ID: 152768
COC Group: G0606188
Time Collected: 06/05/06 10:50
Time Submitted: 06/07/06 16:30

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
PCB-1232	**BRL**	µg/L	0.50	0.25	1	8082	06/15/06 22:45	jvogel	Q15728
PCB-1242	**BRL**	µg/L	1.0	0.36	1	8082	06/15/06 22:45	jvogel	Q15728
PCB-1248	**BRL**	µg/L	0.50	0.25	1	8082	06/15/06 22:45	jvogel	Q15728
PCB-1254	**BRL**	µg/L	0.50	0.25	1	8082	06/15/06 22:45	jvogel	Q15728
PCB-1260	**BRL**	µg/L	0.50	0.26	1	8082	06/15/06 22:45	jvogel	Q15728
Sample Preparation:			1030 mL / 10 mL			3510C	06/12/06 9:00	smanivanh	P15598

Surrogate	% Recovery	Control Limits
Tetrachloro-m-xylene (TCMX)	100	30 - 161
Decachlorobiphenyl (DCB)	97	32 - 178

Volatile Organic Compounds by GC/MS

1,1,1,2-Tetrachloroethane	**BRL**	µg/L	1.0	0.40	1	8260B	06/15/06 16:40	kcampigotto	Q15627
1,1,1-Trichloroethane	**BRL**	µg/L	1.0	0.45	1	8260B	06/15/06 16:40	kcampigotto	Q15627
1,1,2,2-Tetrachloroethane	**BRL**	µg/L	1.0	0.30	1	8260B	06/15/06 16:40	kcampigotto	Q15627
1,1,2-Trichloroethane	**BRL**	µg/L	1.0	0.42	1	8260B	06/15/06 16:40	kcampigotto	Q15627
1,1-Dichloroethane	**BRL**	µg/L	1.0	0.38	1	8260B	06/15/06 16:40	kcampigotto	Q15627
1,1-Dichloroethene	**BRL**	µg/L	1.0	0.43	1	8260B	06/15/06 16:40	kcampigotto	Q15627
1,1-Dichloropropene	**BRL**	µg/L	1.0	0.39	1	8260B	06/15/06 16:40	kcampigotto	Q15627
1,2,3-Trichlorobenzene	**BRL**	µg/L	2.0	0.57	1	8260B	06/15/06 16:40	kcampigotto	Q15627
1,2,3-Trichloropropane	**BRL**	µg/L	1.0	0.50	1	8260B	06/15/06 16:40	kcampigotto	Q15627
1,2,4-Trichlorobenzene	**BRL**	µg/L	1.0	0.42	1	8260B	06/15/06 16:40	kcampigotto	Q15627
1,2-Dibromo-3-chloropropane	**BRL**	µg/L	2.0	0.56	1	8260B	06/15/06 16:40	kcampigotto	Q15627
1,2-Dibromoethane (EDB)	**BRL**	µg/L	1.0	0.46	1	8260B	06/15/06 16:40	kcampigotto	Q15627
1,2-Dichlorobenzene	**BRL**	µg/L	1.0	0.27	1	8260B	06/15/06 16:40	kcampigotto	Q15627
1,2-Dichloroethane	**BRL**	µg/L	1.0	0.36	1	8260B	06/15/06 16:40	kcampigotto	Q15627
1,2-Dichloropropane	**BRL**	µg/L	1.0	0.26	1	8260B	06/15/06 16:40	kcampigotto	Q15627
1,3-Dichlorobenzene	**BRL**	µg/L	1.0	0.22	1	8260B	06/15/06 16:40	kcampigotto	Q15627

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Project Name: Durham County Landfill
Project ID: Assessment Monitoring
Sample Matrix: Water

Client Sample ID: S-3
Prism Sample ID: 152768
COC Group: G0606188
Time Collected: 06/05/06 10:50
Time Submitted: 06/07/06 16:30

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
1,3-Dichloropropane	BRL	µg/L	1.0	0.26	1	8260B	06/15/06 16:40	kcampigotto	Q15627
1,4-Dichlorobenzene	BRL	µg/L	1.0	0.32	1	8260B	06/15/06 16:40	kcampigotto	Q15627
2,2-Dichloropropane	BRL	µg/L	2.0	0.73	1	8260B	06/15/06 16:40	kcampigotto	Q15627
2-Hexanone	BRL	µg/L	5.0	0.38	1	8260B	06/15/06 16:40	kcampigotto	Q15627
4-Methyl-2-pentanone (MIBK)	BRL	µg/L	5.0	0.32	1	8260B	06/15/06 16:40	kcampigotto	Q15627
Acetone	BRL	µg/L	10	2.5	1	8260B	06/15/06 16:40	kcampigotto	Q15627
Acetonitrile	BRL	µg/L	20	5.0	1	8260B	06/15/06 16:40	kcampigotto	Q15627
Acrolein	BRL	µg/L	100	4.5	1	8260B	06/15/06 16:40	kcampigotto	Q15627
Acrylonitrile	BRL	µg/L	100	0.65	1	8260B	06/15/06 16:40	kcampigotto	Q15627
Allyl chloride	BRL	µg/L	10	5.0	1	8260B	06/15/06 16:40	kcampigotto	Q15627
Benzene	BRL	µg/L	0.50	0.14	1	8260B	06/15/06 16:40	kcampigotto	Q15627
Bromochloromethane	BRL	µg/L	1.0	0.31	1	8260B	06/15/06 16:40	kcampigotto	Q15627
Bromodichloromethane	BRL	µg/L	1.0	0.31	1	8260B	06/15/06 16:40	kcampigotto	Q15627
Bromoform	BRL	µg/L	1.0	0.39	1	8260B	06/15/06 16:40	kcampigotto	Q15627
Bromomethane	BRL	µg/L	3.0	1.1	1	8260B	06/15/06 16:40	kcampigotto	Q15627
Carbon disulfide	BRL	µg/L	5.0	0.71	1	8260B	06/15/06 16:40	kcampigotto	Q15627
Carbon tetrachloride	BRL	µg/L	2.0	0.52	1	8260B	06/15/06 16:40	kcampigotto	Q15627
Chlorobenzene	BRL	µg/L	1.0	0.24	1	8260B	06/15/06 16:40	kcampigotto	Q15627
Chlorodibromomethane	BRL	µg/L	1.0	0.10	1	8260B	06/15/06 16:40	kcampigotto	Q15627
Chloroethane	BRL	µg/L	5.0	1.6	1	8260B	06/15/06 16:40	kcampigotto	Q15627
Chloroform	[illegible]	µg/L	1.0	0.35	1	8260B	06/15/06 16:40	kcampigotto	Q15627
Chloromethane	BRL	µg/L	2.0	0.47	1	8260B	06/15/06 16:40	kcampigotto	Q15627
Chloroprene	BRL	µg/L	10	5.0	1	8260B	06/15/06 16:40	kcampigotto	Q15627
cis-1,2-Dichloroethene	BRL	µg/L	1.0	0.47	1	8260B	06/15/06 16:40	kcampigotto	Q15627
cis-1,3-Dichloropropene	BRL	µg/L	1.0	0.29	1	8260B	06/15/06 16:40	kcampigotto	Q15627
Dibromomethane	BRL	µg/L	1.0	0.34	1	8260B	06/15/06 16:40	kcampigotto	Q15627
Dichlorodifluoromethane	BRL	µg/L	2.0	0.26	1	8260B	06/15/06 16:40	kcampigotto	Q15627
Ethyl methacrylate	BRL	µg/L	10	5.0	1	8260B	06/15/06 16:40	kcampigotto	Q15627

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06/27/06

Weston Solutions
Attn: Tara Rowland
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Project Name: Durham County Landfill
Project ID: Assessment Monitoring
Sample Matrix: Water

Client Sample ID: S-3
Prism Sample ID: 152768
COC Group: G0606188
Time Collected: 06/05/06 10:50
Time Submitted: 06/07/06 16:30

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Ethylbenzene	BRL	µg/L	1.0	0.32	1	8260B	06/15/06 16:40	kcampigotto	Q15627
Isobutyl alcohol	BRL	µg/L	10	5.0	1	8260B	06/15/06 16:40	kcampigotto	Q15627
m,p-Xylenes	BRL	µg/L	2.0	0.51	1	8260B	06/15/06 16:40	kcampigotto	Q15627
Methacrylonitrile	BRL	µg/L	10	5.0	1	8260B	06/15/06 16:40	kcampigotto	Q15627
Methyl ethyl ketone (MEK)	BRL	µg/L	5.0	0.81	1	8260B	06/15/06 16:40	kcampigotto	Q15627
Methyl iodide	BRL	µg/L	5.0	2.0	1	8260B	06/15/06 16:40	kcampigotto	Q15627
Methyl methacrylate	BRL	µg/L	10	5.0	1	8260B	06/15/06 16:40	kcampigotto	Q15627
Methylene chloride	BRL	µg/L	2.0	0.61	1	8260B	06/15/06 16:40	kcampigotto	Q15627
o-Xylene	BRL	µg/L	1.0	0.24	1	8260B	06/15/06 16:40	kcampigotto	Q15627
Propionitrile	BRL	µg/L	10	5.0	1	8260B	06/15/06 16:40	kcampigotto	Q15627
Styrene	BRL	µg/L	1.0	0.22	1	8260B	06/15/06 16:40	kcampigotto	Q15627
Tetrachloroethene	BRL	µg/L	1.0	0.49	1	8260B	06/15/06 16:40	kcampigotto	Q15627
Toluene	BRL	µg/L	1.0	0.39	1	8260B	06/15/06 16:40	kcampigotto	Q15627
trans-1,2-Dichloroethene	BRL	µg/L	2.0	0.56	1	8260B	06/15/06 16:40	kcampigotto	Q15627
trans-1,3-Dichloropropene	BRL	µg/L	1.0	0.38	1	8260B	06/15/06 16:40	kcampigotto	Q15627
trans-1,4-Dichloro-2-butene	BRL	µg/L	10	5.0	1	8260B	06/15/06 16:40	kcampigotto	Q15627
Trichloroethene	BRL	µg/L	2.0	0.52	1	8260B	06/15/06 16:40	kcampigotto	Q15627
Trichlorofluoromethane	BRL	µg/L	2.0	0.65	1	8260B	06/15/06 16:40	kcampigotto	Q15627
Vinyl acetate	BRL	µg/L	20	10	1	8260B	06/15/06 16:40	kcampigotto	Q15627
Vinyl chloride	BRL	µg/L	2.0	0.60	1	8260B	06/15/06 16:40	kcampigotto	Q15627

Surrogate	% Recovery	Control Limits
Toluene-d8	98	75 - 121
Dibromofluoromethane	105	74 - 133
Bromofluorobenzene	101	69 - 139

Semi-volatile Organics by GC/MS

1,2,4,5-Tetrachlorobenzene	BRL	µg/L	10	5.0	1	8270C	06/15/06 22:48	kelliot	Q15582

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NC Drinking Water Cert. No. 37735

Full Service Analytical & Environmental Solutions

Laboratory Report

06/27/06

Weston Solutions
Attn: Tara Rowland
4917 Waters Edge
Suite 235
Raleigh, NC 27606

Project Name: Durham County Landfill
Project ID: Assessment Monitoring
Sample Matrix: Water

Client Sample ID: S-3
Prism Sample ID: 152768
COC Group: G0606188
Time Collected: 06/05/06 10:50
Time Submitted: 06/07/06 16:30

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
1,3,5-Trinitrobenzene	BRL	µg/L	10	5.0	1	8270C	06/15/06 22:48	kelliot	Q15582
1,3-Dinitrobenzene	BRL	µg/L	10	5.0	1	8270C	06/15/06 22:48	kelliot	Q15582
1,4-Diphenylenediamine	BRL	µg/L	10	5.0	1	8270C	06/15/06 22:48	kelliot	Q15582
1,4-Napthaquinone	BRL	µg/L	10	5.0	1	8270C	06/15/06 22:48	kelliot	Q15582
1-Napthylamine	BRL	µg/L	10	5.0	1	8270C	06/15/06 22:48	kelliot	Q15582
2,3,4,6-Tetrachlorophenol	BRL	µg/L	10	5.0	1	8270C	06/15/06 22:48	kelliot	Q15582
2,4,5-Trichlorophenol	BRL	µg/L	10	2.6	1	8270C	06/15/06 22:48	kelliot	Q15582
2,4,6-Trichlorophenol	BRL	µg/L	10	2.5	1	8270C	06/15/06 22:48	kelliot	Q15582
2,4-Dichlorophenol	BRL	µg/L	10	2.4	1	8270C	06/15/06 22:48	kelliot	Q15582
2,4-Dimethylphenol	BRL	µg/L	10	2.9	1	8270C	06/15/06 22:48	kelliot	Q15582
2,4-Dinitrophenol	BRL	µg/L	10	2.2	1	8270C	06/15/06 22:48	kelliot	Q15582
2,4-Dinitrotoluene	BRL	µg/L	10	1.3	1	8270C	06/15/06 22:48	kelliot	Q15582
2,6-Dichlorophenol	BRL	µg/L	10	5.0	1	8270C	06/15/06 22:48	kelliot	Q15582
2,6-Dinitrotoluene	BRL	µg/L	10	1.3	1	8270C	06/15/06 22:48	kelliot	Q15582
2-Acetylaminofluorene	BRL	µg/L	10	5.0	1	8270C	06/15/06 22:48	kelliot	Q15582
2-Chloronaphthalene	BRL	µg/L	10	2.2	1	8270C	06/15/06 22:48	kelliot	Q15582
2-Chlorophenol	BRL	µg/L	10	2.4	1	8270C	06/15/06 22:48	kelliot	Q15582
2-Methylnaphthalene	BRL	µg/L	10	1.8	1	8270C	06/15/06 22:48	kelliot	Q15582
2-Methylphenol	BRL	µg/L	10	2.8	1	8270C	06/15/06 22:48	kelliot	Q15582
2-Napthylamine	BRL	µg/L	10	5.0	1	8270C	06/15/06 22:48	kelliot	Q15582
2-Nitroaniline	BRL	µg/L	10	2.1	1	8270C	06/15/06 22:48	kelliot	Q15582
2-Nitrophenol	BRL	µg/L	10	3.1	1	8270C	06/15/06 22:48	kelliot	Q15582
3&4-Methylphenol	BRL	µg/L	10	3.7	1	8270C	06/15/06 22:48	kelliot	Q15582
3,3'-Dichlorobenzidine	BRL	µg/L	10	2.5	1	8270C	06/15/06 22:48	kelliot	Q15582
3,3'-Dimethylbenzidine	BRL	µg/L	10	5.0	1	8270C	06/15/06 22:48	kelliot	Q15582
3-Methylcholanthrene	BRL	µg/L	10	5.0	1	8270C	06/15/06 22:48	kelliot	Q15582
3-Nitroaniline	BRL	µg/L	10	1.8	1	8270C	06/15/06 22:48	kelliot	Q15582
4,6-Dinitro-2-methylphenol	BRL	µg/L	10	1.2	1	8270C	06/15/06 22:48	kelliot	Q15582

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NC Certification No. 402
SC Certification No. 99012
NC Drinking Water Cert. No. 37735

Full Service Analytical & Environmental Solutions

Laboratory Report

06/27/06

Weston Solutions
Attn: Tara Rowland
4917 Waters Edge
Suite 235
Raleigh, NC 27606

Project Name: Durham County Landfill
Project ID: Assessment Monitoring
Sample Matrix: Water

Client Sample ID: S-3
Prism Sample ID: 152768
COC Group: G0606188
Time Collected: 06/05/06 10:50
Time Submitted: 06/07/06 16:30

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
4-Aminobiphenyl	BRL	µg/L	10	5.0	1	8270C	06/15/06 22:48	kelliot	Q15582
4-Bromophenylphenylether	BRL	µg/L	10	1.5	1	8270C	06/15/06 22:48	kelliot	Q15582
4-Chloro-3-methylphenol	BRL	µg/L	10	1.8	1	8270C	06/15/06 22:48	kelliot	Q15582
4-Chloroaniline	BRL	µg/L	10	2.5	1	8270C	06/15/06 22:48	kelliot	Q15582
4-Chlorophenylphenylether	BRL	µg/L	10	1.9	1	8270C	06/15/06 22:48	kelliot	Q15582
4-Nitroaniline	BRL	µg/L	10	1.8	1	8270C	06/15/06 22:48	kelliot	Q15582
4-Nitrophenol	BRL	µg/L	10	0.55	1	8270C	06/15/06 22:48	kelliot	Q15582
5-Nitro-o-toluidine	BRL	µg/L	10	5.0	1	8270C	06/15/06 22:48	kelliot	Q15582
7,12-Dimethylbenz(a)anthracen	BRL	µg/L	10	5.0	1	8270C	06/15/06 22:48	kelliot	Q15582
Acenaphthene	BRL	µg/L	10	2.2	1	8270C	06/15/06 22:48	kelliot	Q15582
Acenaphthylene	BRL	µg/L	10	2.0	1	8270C	06/15/06 22:48	kelliot	Q15582
Acetophenone	BRL	µg/L	10	5.0	1	8270C	06/15/06 22:48	kelliot	Q15582
Anthracene	BRL	µg/L	10	0.77	1	8270C	06/15/06 22:48	kelliot	Q15582
Benzo(a)anthracene	BRL	µg/L	10	1.2	1	8270C	06/15/06 22:48	kelliot	Q15582
Benzo(a)pyrene	BRL	µg/L	10	0.92	1	8270C	06/15/06 22:48	kelliot	Q15582
Benzo(b)fluoranthene	BRL	µg/L	10	1.1	1	8270C	06/15/06 22:48	kelliot	Q15582
Benzo(g,h,i)perylene	BRL	µg/L	10	1.3	1	8270C	06/15/06 22:48	kelliot	Q15582
Benzo(k)fluoranthene	BRL	µg/L	10	1.1	1	8270C	06/15/06 22:48	kelliot	Q15582
Benzyl alcohol	BRL	µg/L	10	1.8	1	8270C	06/15/06 22:48	kelliot	Q15582
Bis(2-chloroethoxy)methane	BRL	µg/L	10	2.3	1	8270C	06/15/06 22:48	kelliot	Q15582
Bis(2-chloroethyl)ether	BRL	µg/L	10	2.8	1	8270C	06/15/06 22:48	kelliot	Q15582
Bis(2-chloroisopropyl)ether	BRL	µg/L	10	2.8	1	8270C	06/15/06 22:48	kelliot	Q15582
Bis(2-ethylhexyl)phthalate	BRL	µg/L	10	1.2	1	8270C	06/15/06 22:48	kelliot	Q15582
Butylbenzylphthalate	BRL	µg/L	10	0.75	1	8270C	06/15/06 22:48	kelliot	Q15582
Chlorobenzilate	BRL	µg/L	10	5.0	1	8270C	06/15/06 22:48	kelliot	Q15582
Chrysene	BRL	µg/L	10	0.95	1	8270C	06/15/06 22:48	kelliot	Q15582
Di-n-butylphthalate	BRL	µg/L	10	0.86	1	8270C	06/15/06 22:48	kelliot	Q15582
Di-n-octylphthalate	BRL	µg/L	10	2.0	1	8270C	06/15/06 22:48	kelliot	Q15582

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Laboratory Report

06/27/06

Weston Solutions
Attn: Tara Rowland
4917 Waters Edge
Suite 235
Raleigh, NC 27606

Project Name: Durham County Landfill
Project ID: Assessment Monitoring
Sample Matrix: Water

Client Sample ID: S-3
Prism Sample ID: 152768
COC Group: G0606188
Time Collected: 06/05/06 10:50
Time Submitted: 06/07/06 16:30

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Diallate	BRL	µg/L	10	5.0	1	8270C	06/15/06 22:48	kelliot	Q15582
Dibenzo(a,h)anthracene	BRL	µg/L	10	1.5	1	8270C	06/15/06 22:48	kelliot	Q15582
Dibenzofuran	BRL	µg/L	10	2.2	1	8270C	06/15/06 22:48	kelliot	Q15582
Diethylphthalate	BRL	µg/L	10	1.5	1	8270C	06/15/06 22:48	kelliot	Q15582
Dimethoate	BRL	µg/L	10	5.0	1	8270C	06/15/06 22:48	kelliot	Q15582
Dimethylphthalate	BRL	µg/L	10	2.1	1	8270C	06/15/06 22:48	kelliot	Q15582
Dinoseb	BRL	µg/L	10	5.0	1	8270C	06/15/06 22:48	kelliot	Q15582
Diphenylamine	BRL	µg/L	10	5.0	1	8270C	06/15/06 22:48	kelliot	Q15582
Disulfoton	BRL	µg/L	10	5.0	1	8270C	06/15/06 22:48	kelliot	Q15582
Ethylmethane sulfonate	BRL	µg/L	10	5.0	1	8270C	06/15/06 22:48	kelliot	Q15582
Famphur	BRL	µg/L	10	5.0	1	8270C	06/15/06 22:48	kelliot	Q15582
Fluoranthene	BRL	µg/L	10	0.62	1	8270C	06/15/06 22:48	kelliot	Q15582
Fluorene	BRL	µg/L	10	2.4	1	8270C	06/15/06 22:48	kelliot	Q15582
Hexachlorobenzene	BRL	µg/L	10	1.1	1	8270C	06/15/06 22:48	kelliot	Q15582
Hexachlorobutadiene	BRL	µg/L	10	1.9	1	8270C	06/15/06 22:48	kelliot	Q15582
Hexachlorocyclopentadiene	BRL	µg/L	10	2.4	1	8270C	06/15/06 22:48	kelliot	Q15582
Hexachloroethane	BRL	µg/L	10	2.1	1	8270C	06/15/06 22:48	kelliot	Q15582
Hexachloropropene	BRL	µg/L	10	5.0	1	8270C	06/15/06 22:48	kelliot	Q15582
Indeno(1,2,3-cd)pyrene	BRL	µg/L	10	1.8	1	8270C	06/15/06 22:48	kelliot	Q15582
Isodrin	BRL	µg/L	10	5.0	1	8270C	06/15/06 22:48	kelliot	Q15582
Isophorone	BRL	µg/L	10	3.0	1	8270C	06/15/06 22:48	kelliot	Q15582
Isosafrole	BRL	µg/L	10	5.0	1	8270C	06/15/06 22:48	kelliot	Q15582
Kepone	BRL	µg/L	10	5.0	1	8270C	06/15/06 22:48	kelliot	Q15582
Methapyrilene	BRL	µg/L	10	5.0	1	8270C	06/15/06 22:48	kelliot	Q15582
Methyl parathion	BRL	µg/L	10	5.0	1	8270C	06/15/06 22:48	kelliot	Q15582
Methylmethane sulfonate	BRL	µg/L	10	5.0	1	8270C	06/15/06 22:48	kelliot	Q15582
N-Nitrosodi-n-propylamine	BRL	µg/L	10	2.7	1	8270C	06/15/06 22:48	kelliot	Q15582
N-Nitrosodibutylamine	BRL	µg/L	10	5.0	1	8270C	06/15/06 22:48	kelliot	Q15582

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NC Drinking Water Cert. No. 37735

Laboratory Report

06/27/06

Weston Solutions
Attn: Tara Rowland
4917 Waters Edge
Suite 235
Raleigh, NC 27606

Project Name: Durham County Landfill
Project ID: Assessment Monitoring
Sample Matrix: Water

Client Sample ID: S-3
Prism Sample ID: 152768
COC Group: G0606188
Time Collected: 06/05/06 10:50
Time Submitted: 06/07/06 16:30

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
N-Nitrosodiethylamine	BRL	µg/L	10	5.0	1	8270C	06/15/06 22:48	kelliot	Q15582
N-Nitrosodimethylamine	BRL	µg/L	10	1.0	1	8270C	06/15/06 22:48	kelliot	Q15582
N-Nitrosodimethylethylamine	BRL	µg/L	10	5.0	1	8270C	06/15/06 22:48	kelliot	Q15582
N-Nitrosodiphenylamine	BRL	µg/L	10	1.5	1	8270C	06/15/06 22:48	kelliot	Q15582
n-Nitrosopiperidine	BRL	µg/L	10	5.0	1	8270C	06/15/06 22:48	kelliot	Q15582
N-Nitrosopyrrolidine	BRL	µg/L	10	5.0	1	8270C	06/15/06 22:48	kelliot	Q15582
Naphthalene	BRL	µg/L	10	1.9	1	8270C	06/15/06 22:48	kelliot	Q15582
Nitrobenzene	BRL	µg/L	10	2.4	1	8270C	06/15/06 22:48	kelliot	Q15582
o,o,o-Triethylphosphorthioate	BRL	µg/L	10	5.0	1	8270C	06/15/06 22:48	kelliot	Q15582
o-Toluidine	BRL	µg/L	10	5.0	1	8270C	06/15/06 22:48	kelliot	Q15582
p-Dimethylaminoazobenzene	BRL	µg/L	10	5.0	1	8270C	06/15/06 22:48	kelliot	Q15582
Pentachlorobenzene	BRL	µg/L	10	5.0	1	8270C	06/15/06 22:48	kelliot	Q15582
Pentachloronitrobenzene	BRL	µg/L	10	5.0	1	8270C	06/15/06 22:48	kelliot	Q15582
Pentachlorophenol	BRL	µg/L	10	0.65	1	8270C	06/15/06 22:48	kelliot	Q15582
Phenacetin	BRL	µg/L	10	5.0	1	8270C	06/15/06 22:48	kelliot	Q15582
Phenanthrene	BRL	µg/L	10	0.58	1	8270C	06/15/06 22:48	kelliot	Q15582
Phenol	BRL	µg/L	10	3.8	1	8270C	06/15/06 22:48	kelliot	Q15582
Phorate	BRL	µg/L	10	5.0	1	8270C	06/15/06 22:48	kelliot	Q15582
Pronamide	BRL	µg/L	10	5.0	1	8270C	06/15/06 22:48	kelliot	Q15582
Pyrene	BRL	µg/L	10	1.1	1	8270C	06/15/06 22:48	kelliot	Q15582
Safrole	BRL	µg/L	10	5.0	1	8270C	06/15/06 22:48	kelliot	Q15582
Thionazin	BRL	µg/L	10	5.0	1	8270C	06/15/06 22:48	kelliot	Q15582

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Full Service Analytical & Environmental Solutions

Laboratory Report

06/27/06

Weston Solutions
Attn: Tara Rowland
4917 Waters Edge
Suite 235
Raleigh, NC 27606

Project Name: Durham County Landfill
Project ID: Assessment Monitoring
Sample Matrix: Water

Client Sample ID: S-3
Prism Sample ID: 152768
COC Group: G0606188
Time Collected: 06/05/06 10:50
Time Submitted: 06/07/06 16:30

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Sample Preparation:			1000 mL /		1 mL	3510C	06/10/06 9:00	smanivanh	P15587

Surrogate	% Recovery	Control Limits
Terphenyl-d14	108	41 - 136
Phenol-d5	14	10 - 78
Nitrobenzene-d5	88	13 - 107
2-Fluorophenol	28	10 - 75
2-Fluorobiphenyl	95	27 - 107
2,4,6-Tribromophenol	104	38 - 117

Cyanide by Colorimetric Method									
Cyanide, Total	[redacted]	mg/L	0.0020	0.0016	1	9014	06/16/06 11:16	cmatthews	Q15692
Sample Preparation:			500 mL /		500 mL	9010	06/14/06 15:25	cmatthews	P15642
Sulfide by Iodometric Method									
Sulfide	**BRL**	mg/L	2.0	0.094	1	376.1	06/12/06 8:00	cmatthews	Q15504

Sample Comment(s):

BRL = Below Reporting Limit
J = Estimated value between the Reporting Limit and the MDL
The results in this report relate only to the samples submitted for analysis and meet state certification requirements other than NELAC certification except for those instances indicated in the case narrative and/or test comments.

Angela D. Overcash, V.P. Laboratory Services

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Laboratory Report

06/27/06

Weston Solutions
Attn: Tara Rowland
4917 Waters Edge
Suite 235
Raleigh, NC 27606

Project Name: Durham County Landfill
Project ID: Assessment Monitoring
Sample Matrix: Water

Client Sample ID: S-1
Prism Sample ID: 152769
COC Group: G0606188
Time Collected: 06/05/06 12:45
Time Submitted: 06/07/06 16:30

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Organochlorine Pesticides and PCBs by GC/ECD									
4,4'-DDD	BRL	µg/L	0.050	0.027	1	8081A	06/15/06 23:27	jvogel	Q15726
4,4'-DDE	BRL	µg/L	0.050	0.012	1	8081A	06/15/06 23:27	jvogel	Q15726
4,4'-DDT	BRL	µg/L	0.050	0.036	1	8081A	06/15/06 23:27	jvogel	Q15726
4,4'-Methoxychlor	BRL	µg/L	0.050	0.045	1	8081A	06/15/06 23:27	jvogel	Q15726
a-BHC	BRL	µg/L	0.050	0.010	1	8081A	06/15/06 23:27	jvogel	Q15726
Aldrin	BRL	µg/L	0.050	0.018	1	8081A	06/15/06 23:27	jvogel	Q15726
b-BHC	BRL	µg/L	0.050	0.021	1	8081A	06/15/06 23:27	jvogel	Q15726
Chlordane	BRL	µg/L	0.50	0.10	1	8081A	06/15/06 23:27	jvogel	Q15726
d-BHC	BRL	µg/L	0.050	0.015	1	8081A	06/15/06 23:27	jvogel	Q15726
Dieldrin	BRL	µg/L	0.050	0.013	1	8081A	06/15/06 23:27	jvogel	Q15726
Endosulfan I	BRL	µg/L	0.050	0.010	1	8081A	06/15/06 23:27	jvogel	Q15726
Endosulfan II	BRL	µg/L	0.050	0.019	1	8081A	06/15/06 23:27	jvogel	Q15726
Endosulfan Sulfate	BRL	µg/L	0.050	0.024	1	8081A	06/15/06 23:27	jvogel	Q15726
Endrin	BRL	µg/L	0.050	0.027	1	8081A	06/15/06 23:27	jvogel	Q15726
Endrin Aldehyde	BRL	µg/L	0.050	0.014	1	8081A	06/15/06 23:27	jvogel	Q15726
g-BHC	BRL	µg/L	0.050	0.021	1	8081A	06/15/06 23:27	jvogel	Q15726
Heptachlor	BRL	µg/L	0.050	0.022	1	8081A	06/15/06 23:27	jvogel	Q15726
Heptachlor Epoxide	BRL	µg/L	0.050	0.018	1	8081A	06/15/06 23:27	jvogel	Q15726
Toxaphene	BRL	µg/L	0.50	0.23	1	8081A	06/15/06 23:27	jvogel	Q15726
Sample Preparation:			1000 mL / 10 mL			3510C	06/12/06 9:00	smanivanh	P15597

Surrogate	% Recovery	Control Limits
Tetrachloro-m-xylene (TCMX)	57	40 - 134
Decachlorobiphenyl (DCB)	58	13 - 186

Polychlorinated Biphenyls (PCBs) by GC-ECD									
PCB-1016	BRL	µg/L	0.50	0.17	1	8082	06/15/06 23:27	jvogel	Q15728
PCB-1221	BRL	µg/L	1.0	0.33	1	8082	06/15/06 23:27	jvogel	Q15728

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NC Certification No. 402
SC Certification No. 99012
NC Drinking Water Cert. No. 37735

Full Service Analytical & Environmental Solutions

Laboratory Report

06/27/06

Weston Solutions
Attn: Tara Rowland
4917 Waters Edge
Suite 235
Raleigh, NC 27606

Project Name: Durham County Landfill
Project ID: Assessment Monitoring
Sample Matrix: Water

Client Sample ID: S-1
Prism Sample ID: 152769
COC Group: G0606188
Time Collected: 06/05/06 12:45
Time Submitted: 06/07/06 16:30

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
PCB-1232	BRL	µg/L	0.50	0.25	1	8082	06/15/06 23:27	jvogel	Q15728
PCB-1242	BRL	µg/L	1.0	0.36	1	8082	06/15/06 23:27	jvogel	Q15728
PCB-1248	BRL	µg/L	0.50	0.25	1	8082	06/15/06 23:27	jvogel	Q15728
PCB-1254	BRL	µg/L	0.50	0.25	1	8082	06/15/06 23:27	jvogel	Q15728
PCB-1260	BRL	µg/L	0.50	0.26	1	8082	06/15/06 23:27	jvogel	Q15728
Sample Preparation:			1000	mL /	10 mL	3510C	06/12/06 9:00	smanivanh	P15598

Surrogate	% Recovery	Control Limits
Tetrachloro-m-xylene (TCMX)	57	30 - 161
Decachlorobiphenyl (DCB)	58	32 - 178

Volatile Organic Compounds by GC/MS

1,1,1,2-Tetrachloroethane	BRL	µg/L	1.0	0.40	1	8260B	06/15/06 17:06	kcampigotto	Q15627
1,1,1-Trichloroethane	BRL	µg/L	1.0	0.45	1	8260B	06/15/06 17:06	kcampigotto	Q15627
1,1,2,2-Tetrachloroethane	BRL	µg/L	1.0	0.30	1	8260B	06/15/06 17:06	kcampigotto	Q15627
1,1,2-Trichloroethane	BRL	µg/L	1.0	0.42	1	8260B	06/15/06 17:06	kcampigotto	Q15627
1,1-Dichloroethane	BRL	µg/L	1.0	0.38	1	8260B	06/15/06 17:06	kcampigotto	Q15627
1,1-Dichloroethene	BRL	µg/L	1.0	0.43	1	8260B	06/15/06 17:06	kcampigotto	Q15627
1,1-Dichloropropene	BRL	µg/L	1.0	0.39	1	8260B	06/15/06 17:06	kcampigotto	Q15627
1,2,3-Trichlorobenzene	BRL	µg/L	2.0	0.57	1	8260B	06/15/06 17:06	kcampigotto	Q15627
1,2,3-Trichloropropane	BRL	µg/L	1.0	0.50	1	8260B	06/15/06 17:06	kcampigotto	Q15627
1,2,4-Trichlorobenzene	BRL	µg/L	1.0	0.42	1	8260B	06/15/06 17:06	kcampigotto	Q15627
1,2-Dibromo-3-chloropropane	BRL	µg/L	2.0	0.56	1	8260B	06/15/06 17:06	kcampigotto	Q15627
1,2-Dibromoethane (EDB)	BRL	µg/L	1.0	0.46	1	8260B	06/15/06 17:06	kcampigotto	Q15627
1,2-Dichlorobenzene	BRL	µg/L	1.0	0.27	1	8260B	06/15/06 17:06	kcampigotto	Q15627
1,2-Dichloroethane	BRL	µg/L	1.0	0.36	1	8260B	06/15/06 17:06	kcampigotto	Q15627
1,2-Dichloropropane	BRL	µg/L	1.0	0.26	1	8260B	06/15/06 17:06	kcampigotto	Q15627
1,3-Dichlorobenzene	BRL	µg/L	1.0	0.22	1	8260B	06/15/06 17:06	kcampigotto	Q15627

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NC Certification No. 402
SC Certification No. 99012
NC Drinking Water Cert. No. 37735

Full Service Analytical & Environmental Solutions

Laboratory Report

06/27/06

Weston Solutions
Attn: Tara Rowland
4917 Waters Edge
Suite 235
Raleigh, NC 27606

Project Name: Durham County Landfill
Project ID: Assessment Monitoring
Sample Matrix: Water

Client Sample ID: S-1
Prism Sample ID: 152769
COC Group: G0606188
Time Collected: 06/05/06 12:45
Time Submitted: 06/07/06 16:30

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
1,3-Dichloropropane	BRL	µg/L	1.0	0.26	1	8260B	06/15/06 17:06	kcampigotto	Q15627
1,4-Dichlorobenzene	BRL	µg/L	1.0	0.32	1	8260B	06/15/06 17:06	kcampigotto	Q15627
2,2-Dichloropropane	BRL	µg/L	2.0	0.73	1	8260B	06/15/06 17:06	kcampigotto	Q15627
2-Hexanone	BRL	µg/L	5.0	0.38	1	8260B	06/15/06 17:06	kcampigotto	Q15627
4-Methyl-2-pentanone (MIBK)	BRL	µg/L	5.0	0.32	1	8260B	06/15/06 17:06	kcampigotto	Q15627
Acetone	BRL	µg/L	10	2.5	1	8260B	06/15/06 17:06	kcampigotto	Q15627
Acetonitrile	BRL	µg/L	20	5.0	1	8260B	06/15/06 17:06	kcampigotto	Q15627
Acrolein	BRL	µg/L	100	4.5	1	8260B	06/15/06 17:06	kcampigotto	Q15627
Acrylonitrile	BRL	µg/L	100	0.65	1	8260B	06/15/06 17:06	kcampigotto	Q15627
Allyl chloride	BRL	µg/L	10	5.0	1	8260B	06/15/06 17:06	kcampigotto	Q15627
Benzene	BRL	µg/L	0.50	0.14	1	8260B	06/15/06 17:06	kcampigotto	Q15627
Bromochloromethane	BRL	µg/L	1.0	0.31	1	8260B	06/15/06 17:06	kcampigotto	Q15627
Bromodichloromethane	BRL	µg/L	1.0	0.31	1	8260B	06/15/06 17:06	kcampigotto	Q15627
Bromoform	BRL	µg/L	1.0	0.39	1	8260B	06/15/06 17:06	kcampigotto	Q15627
Bromomethane	BRL	µg/L	3.0	1.1	1	8260B	06/15/06 17:06	kcampigotto	Q15627
Carbon disulfide	BRL	µg/L	5.0	0.71	1	8260B	06/15/06 17:06	kcampigotto	Q15627
Carbon tetrachloride	BRL	µg/L	2.0	0.52	1	8260B	06/15/06 17:06	kcampigotto	Q15627
Chlorobenzene	BRL	µg/L	1.0	0.24	1	8260B	06/15/06 17:06	kcampigotto	Q15627
Chlorodibromomethane	BRL	µg/L	1.0	0.10	1	8260B	06/15/06 17:06	kcampigotto	Q15627
Chloroethane	BRL	µg/L	5.0	1.6	1	8260B	06/15/06 17:06	kcampigotto	Q15627
Chloroform	BRL	µg/L	1.0	0.35	1	8260B	06/15/06 17:06	kcampigotto	Q15627
Chloromethane	BRL	µg/L	2.0	0.47	1	8260B	06/15/06 17:06	kcampigotto	Q15627
Chloroprene	BRL	µg/L	10	5.0	1	8260B	06/15/06 17:06	kcampigotto	Q15627
cis-1,2-Dichloroethene	BRL	µg/L	1.0	0.47	1	8260B	06/15/06 17:06	kcampigotto	Q15627
cis-1,3-Dichloropropene	BRL	µg/L	1.0	0.29	1	8260B	06/15/06 17:06	kcampigotto	Q15627
Dibromomethane	BRL	µg/L	1.0	0.34	1	8260B	06/15/06 17:06	kcampigotto	Q15627
Dichlorodifluoromethane	BRL	µg/L	2.0	0.26	1	8260B	06/15/06 17:06	kcampigotto	Q15627
Ethyl methacrylate	BRL	µg/L	10	5.0	1	8260B	06/15/06 17:06	kcampigotto	Q15627

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Laboratory Report

06/27/06

Weston Solutions
Attn: Tara Rowland
4917 Waters Edge
Suite 235
Raleigh, NC 27606

Project Name: Durham County Landfill
Project ID: Assessment Monitoring
Sample Matrix: Water

Client Sample ID: S-1
Prism Sample ID: 152769
COC Group: G0606188
Time Collected: 06/05/06 12:45
Time Submitted: 06/07/06 16:30

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Ethylbenzene	BRL	µg/L	1.0	0.32	1	8260B	06/15/06 17:06	kcampigotto	Q15627
Isobutyl alcohol	BRL	µg/L	10	5.0	1	8260B	06/15/06 17:06	kcampigotto	Q15627
m,p-Xylenes	BRL	µg/L	2.0	0.51	1	8260B	06/15/06 17:06	kcampigotto	Q15627
Methacrylonitrile	BRL	µg/L	10	5.0	1	8260B	06/15/06 17:06	kcampigotto	Q15627
Methyl ethyl ketone (MEK)	BRL	µg/L	5.0	0.81	1	8260B	06/15/06 17:06	kcampigotto	Q15627
Methyl iodide	BRL	µg/L	5.0	2.0	1	8260B	06/15/06 17:06	kcampigotto	Q15627
Methyl methacrylate	BRL	µg/L	10	5.0	1	8260B	06/15/06 17:06	kcampigotto	Q15627
Methylene chloride	BRL	µg/L	2.0	0.61	1	8260B	06/15/06 17:06	kcampigotto	Q15627
o-Xylene	BRL	µg/L	1.0	0.24	1	8260B	06/15/06 17:06	kcampigotto	Q15627
Propionitrile	BRL	µg/L	10	5.0	1	8260B	06/15/06 17:06	kcampigotto	Q15627
Styrene	BRL	µg/L	1.0	0.22	1	8260B	06/15/06 17:06	kcampigotto	Q15627
Tetrachloroethene	BRL	µg/L	1.0	0.49	1	8260B	06/15/06 17:06	kcampigotto	Q15627
Toluene	BRL	µg/L	1.0	0.39	1	8260B	06/15/06 17:06	kcampigotto	Q15627
trans-1,2-Dichloroethene	BRL	µg/L	2.0	0.56	1	8260B	06/15/06 17:06	kcampigotto	Q15627
trans-1,3-Dichloropropene	BRL	µg/L	1.0	0.38	1	8260B	06/15/06 17:06	kcampigotto	Q15627
trans-1,4-Dichloro-2-butene	BRL	µg/L	10	5.0	1	8260B	06/15/06 17:06	kcampigotto	Q15627
Trichloroethene	BRL	µg/L	2.0	0.52	1	8260B	06/15/06 17:06	kcampigotto	Q15627
Trichlorofluoromethane	BRL	µg/L	2.0	0.65	1	8260B	06/15/06 17:06	kcampigotto	Q15627
Vinyl acetate	BRL	µg/L	20	10	1	8260B	06/15/06 17:06	kcampigotto	Q15627
Vinyl chloride	BRL	µg/L	2.0	0.60	1	8260B	06/15/06 17:06	kcampigotto	Q15627

Surrogate	% Recovery	Control Limits
Toluene-d8	101	75 - 121
Dibromofluoromethane	109	74 - 133
Bromofluorobenzene	104	69 - 139

Semi-volatile Organics by GC/MS

1,2,4,5-Tetrachlorobenzene	BRL	µg/L	10	5.0	1	8270C	06/15/06 23:40	kelliot	Q15582

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Full Service Analytical & Environmental Solutions

Laboratory Report

06/27/06

Weston Solutions
Attn: Tara Rowland
4917 Waters Edge
Suite 235
Raleigh, NC 27606

Project Name: Durham County Landfill
Project ID: Assessment Monitoring
Sample Matrix: Water

Client Sample ID: S-1
Prism Sample ID: 152769
COC Group: G0606188
Time Collected: 06/05/06 12:45
Time Submitted: 06/07/06 16:30

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
1,3,5-Trinitrobenzene	BRL	µg/L	10	5.0	1	8270C	06/15/06 23:40	kelliot	Q15582
1,3-Dinitrobenzene	BRL	µg/L	10	5.0	1	8270C	06/15/06 23:40	kelliot	Q15582
1,4-Diphenylenediamine	BRL	µg/L	10	5.0	1	8270C	06/15/06 23:40	kelliot	Q15582
1,4-Napthaquinone	BRL	µg/L	10	5.0	1	8270C	06/15/06 23:40	kelliot	Q15582
1-Napthylamine	BRL	µg/L	10	5.0	1	8270C	06/15/06 23:40	kelliot	Q15582
2,3,4,6-Tetrachlorophenol	BRL	µg/L	10	5.0	1	8270C	06/15/06 23:40	kelliot	Q15582
2,4,5-Trichlorophenol	BRL	µg/L	10	2.6	1	8270C	06/15/06 23:40	kelliot	Q15582
2,4,6-Trichlorophenol	BRL	µg/L	10	2.5	1	8270C	06/15/06 23:40	kelliot	Q15582
2,4-Dichlorophenol	BRL	µg/L	10	2.4	1	8270C	06/15/06 23:40	kelliot	Q15582
2,4-Dimethylphenol	BRL	µg/L	10	2.9	1	8270C	06/15/06 23:40	kelliot	Q15582
2,4-Dinitrophenol	BRL	µg/L	10	2.2	1	8270C	06/15/06 23:40	kelliot	Q15582
2,4-Dinitrotoluene	BRL	µg/L	10	1.3	1	8270C	06/15/06 23:40	kelliot	Q15582
2,6-Dichlorophenol	BRL	µg/L	10	5.0	1	8270C	06/15/06 23:40	kelliot	Q15582
2,6-Dinitrotoluene	BRL	µg/L	10	1.3	1	8270C	06/15/06 23:40	kelliot	Q15582
2-Acetylaminofluorene	BRL	µg/L	10	5.0	1	8270C	06/15/06 23:40	kelliot	Q15582
2-Chloronaphthalene	BRL	µg/L	10	2.2	1	8270C	06/15/06 23:40	kelliot	Q15582
2-Chlorophenol	BRL	µg/L	10	2.4	1	8270C	06/15/06 23:40	kelliot	Q15582
2-Methylnaphthalene	BRL	µg/L	10	1.8	1	8270C	06/15/06 23:40	kelliot	Q15582
2-Methylphenol	BRL	µg/L	10	2.8	1	8270C	06/15/06 23:40	kelliot	Q15582
2-Napthylamine	BRL	µg/L	10	5.0	1	8270C	06/15/06 23:40	kelliot	Q15582
2-Nitroaniline	BRL	µg/L	10	2.1	1	8270C	06/15/06 23:40	kelliot	Q15582
2-Nitrophenol	BRL	µg/L	10	3.1	1	8270C	06/15/06 23:40	kelliot	Q15582
3&4-Methylphenol	BRL	µg/L	10	3.7	1	8270C	06/15/06 23:40	kelliot	Q15582
3,3'-Dichlorobenzidine	BRL	µg/L	10	2.5	1	8270C	06/15/06 23:40	kelliot	Q15582
3,3'-Dimethylbenzidine	BRL	µg/L	10	5.0	1	8270C	06/15/06 23:40	kelliot	Q15582
3-Methylcholanthrene	BRL	µg/L	10	5.0	1	8270C	06/15/06 23:40	kelliot	Q15582
3-Nitroaniline	BRL	µg/L	10	1.8	1	8270C	06/15/06 23:40	kelliot	Q15582
4,6-Dinitro-2-methylphenol	BRL	µg/L	10	1.2	1	8270C	06/15/06 23:40	kelliot	Q15582

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Laboratory Report

06/27/06

Weston Solutions
Attn: Tara Rowland
4917 Waters Edge
Suite 235
Raleigh, NC 27606

Project Name: Durham County Landfill
Project ID: Assessment Monitoring
Sample Matrix: Water

Client Sample ID: S-1
Prism Sample ID: 152769
COC Group: G0606188
Time Collected: 06/05/06 12:45
Time Submitted: 06/07/06 16:30

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
4-Aminobiphenyl	BRL	µg/L	10	5.0	1	8270C	06/15/06 23:40	kelliot	Q15582
4-Bromophenylphenylether	BRL	µg/L	10	1.5	1	8270C	06/15/06 23:40	kelliot	Q15582
4-Chloro-3-methylphenol	BRL	µg/L	10	1.8	1	8270C	06/15/06 23:40	kelliot	Q15582
4-Chloroaniline	BRL	µg/L	10	2.5	1	8270C	06/15/06 23:40	kelliot	Q15582
4-Chlorophenylphenylether	BRL	µg/L	10	1.9	1	8270C	06/15/06 23:40	kelliot	Q15582
4-Nitroaniline	BRL	µg/L	10	1.8	1	8270C	06/15/06 23:40	kelliot	Q15582
4-Nitrophenol	BRL	µg/L	10	0.55	1	8270C	06/15/06 23:40	kelliot	Q15582
5-Nitro-o-toluidine	BRL	µg/L	10	5.0	1	8270C	06/15/06 23:40	kelliot	Q15582
7,12-Dimethylbenz(a)anthracen	BRL	µg/L	10	5.0	1	8270C	06/15/06 23:40	kelliot	Q15582
Acenaphthene	BRL	µg/L	10	2.2	1	8270C	06/15/06 23:40	kelliot	Q15582
Acenaphthylene	BRL	µg/L	10	2.0	1	8270C	06/15/06 23:40	kelliot	Q15582
Acetophenone	BRL	µg/L	10	5.0	1	8270C	06/15/06 23:40	kelliot	Q15582
Anthracene	BRL	µg/L	10	0.77	1	8270C	06/15/06 23:40	kelliot	Q15582
Benzo(a)anthracene	BRL	µg/L	10	1.2	1	8270C	06/15/06 23:40	kelliot	Q15582
Benzo(a)pyrene	BRL	µg/L	10	0.92	1	8270C	06/15/06 23:40	kelliot	Q15582
Benzo(b)fluoranthene	BRL	µg/L	10	1.1	1	8270C	06/15/06 23:40	kelliot	Q15582
Benzo(g,h,i)perylene	BRL	µg/L	10	1.3	1	8270C	06/15/06 23:40	kelliot	Q15582
Benzo(k)fluoranthene	BRL	µg/L	10	1.1	1	8270C	06/15/06 23:40	kelliot	Q15582
Benzyl alcohol	BRL	µg/L	10	1.8	1	8270C	06/15/06 23:40	kelliot	Q15582
Bis(2-chloroethoxy)methane	BRL	µg/L	10	2.3	1	8270C	06/15/06 23:40	kelliot	Q15582
Bis(2-chloroethyl)ether	BRL	µg/L	10	2.8	1	8270C	06/15/06 23:40	kelliot	Q15582
Bis(2-chloroisopropyl)ether	BRL	µg/L	10	2.8	1	8270C	06/15/06 23:40	kelliot	Q15582
Bis(2-ethylhexyl)phthalate	BRL	µg/L	10	1.2	1	8270C	06/15/06 23:40	kelliot	Q15582
Butylbenzylphthalate	BRL	µg/L	10	0.75	1	8270C	06/15/06 23:40	kelliot	Q15582
Chlorobenzilate	BRL	µg/L	10	5.0	1	8270C	06/15/06 23:40	kelliot	Q15582
Chrysene	BRL	µg/L	10	0.95	1	8270C	06/15/06 23:40	kelliot	Q15582
Di-n-butylphthalate	BRL	µg/L	10	0.86	1	8270C	06/15/06 23:40	kelliot	Q15582
Di-n-octylphthalate	BRL	µg/L	10	2.0	1	8270C	06/15/06 23:40	kelliot	Q15582

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NC Certification No. 402
SC Certification No. 99012
NC Drinking Water Cert. No. 37735

Full Service Analytical & Environmental Solutions

Laboratory Report

06/27/06

Weston Solutions
Attn: Tara Rowland
4917 Waters Edge
Suite 235
Raleigh, NC 27606

Project Name: Durham County Landfill
Project ID: Assessment Monitoring
Sample Matrix: Water

Client Sample ID: S-1
Prism Sample ID: 152769
COC Group: G0606188
Time Collected: 06/05/06 12:45
Time Submitted: 06/07/06 16:30

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Diallate	BRL	µg/L	10	5.0	1	8270C	06/15/06 23:40	kelliot	Q15582
Dibenzo(a,h)anthracene	BRL	µg/L	10	1.5	1	8270C	06/15/06 23:40	kelliot	Q15582
Dibenzofuran	BRL	µg/L	10	2.2	1	8270C	06/15/06 23:40	kelliot	Q15582
Diethylphthalate	BRL	µg/L	10	1.5	1	8270C	06/15/06 23:40	kelliot	Q15582
Dimethoate	BRL	µg/L	10	5.0	1	8270C	06/15/06 23:40	kelliot	Q15582
Dimethylphthalate	BRL	µg/L	10	2.1	1	8270C	06/15/06 23:40	kelliot	Q15582
Dinoseb	BRL	µg/L	10	5.0	1	8270C	06/15/06 23:40	kelliot	Q15582
Diphenylamine	BRL	µg/L	10	5.0	1	8270C	06/15/06 23:40	kelliot	Q15582
Disulfoton	BRL	µg/L	10	5.0	1	8270C	06/15/06 23:40	kelliot	Q15582
Ethylmethane sulfonate	BRL	µg/L	10	5.0	1	8270C	06/15/06 23:40	kelliot	Q15582
Famphur	BRL	µg/L	10	5.0	1	8270C	06/15/06 23:40	kelliot	Q15582
Fluoranthene	BRL	µg/L	10	0.62	1	8270C	06/15/06 23:40	kelliot	Q15582
Fluorene	BRL	µg/L	10	2.4	1	8270C	06/15/06 23:40	kelliot	Q15582
Hexachlorobenzene	BRL	µg/L	10	1.1	1	8270C	06/15/06 23:40	kelliot	Q15582
Hexachlorobutadiene	BRL	µg/L	10	1.9	1	8270C	06/15/06 23:40	kelliot	Q15582
Hexachlorocyclopentadiene	BRL	µg/L	10	2.4	1	8270C	06/15/06 23:40	kelliot	Q15582
Hexachloroethane	BRL	µg/L	10	2.1	1	8270C	06/15/06 23:40	kelliot	Q15582
Hexachloropropene	BRL	µg/L	10	5.0	1	8270C	06/15/06 23:40	kelliot	Q15582
Indeno(1,2,3-cd)pyrene	BRL	µg/L	10	1.8	1	8270C	06/15/06 23:40	kelliot	Q15582
Isodrin	BRL	µg/L	10	5.0	1	8270C	06/15/06 23:40	kelliot	Q15582
Isophorone	BRL	µg/L	10	3.0	1	8270C	06/15/06 23:40	kelliot	Q15582
Isosafrole	BRL	µg/L	10	5.0	1	8270C	06/15/06 23:40	kelliot	Q15582
Kepone	BRL	µg/L	10	5.0	1	8270C	06/15/06 23:40	kelliot	Q15582
Methapyrilene	BRL	µg/L	10	5.0	1	8270C	06/15/06 23:40	kelliot	Q15582
Methyl parathion	BRL	µg/L	10	5.0	1	8270C	06/15/06 23:40	kelliot	Q15582
Methylmethane sulfonate	BRL	µg/L	10	5.0	1	8270C	06/15/06 23:40	kelliot	Q15582
N-Nitrosodi-n-propylamine	BRL	µg/L	10	2.7	1	8270C	06/15/06 23:40	kelliot	Q15582
N-Nitrosodibutylamine	BRL	µg/L	10	5.0	1	8270C	06/15/06 23:40	kelliot	Q15582

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NC Certification No. 402
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Full Service Analytical & Environmental Solutions

Laboratory Report

06/27/06

Weston Solutions
Attn: Tara Rowland
4917 Waters Edge
Suite 235
Raleigh, NC 27606

Project Name: Durham County Landfill
Project ID: Assessment Monitoring
Sample Matrix: Water

Client Sample ID: S-1
Prism Sample ID: 152769
COC Group: G0606188
Time Collected: 06/05/06 12:45
Time Submitted: 06/07/06 16:30

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
N-Nitrosodiethylamine	**BRL**	µg/L	10	5.0	1	8270C	06/15/06 23:40	kelliot	Q15582
N-Nitrosodimethylamine	**BRL**	µg/L	10	1.0	1	8270C	06/15/06 23:40	kelliot	Q15582
N-Nitrosodimethylethylamine	**BRL**	µg/L	10	5.0	1	8270C	06/15/06 23:40	kelliot	Q15582
N-Nitrosodiphenylamine	**BRL**	µg/L	10	1.5	1	8270C	06/15/06 23:40	kelliot	Q15582
n-Nitrosopiperidine	**BRL**	µg/L	10	5.0	1	8270C	06/15/06 23:40	kelliot	Q15582
N-Nitrosopyrrolidine	**BRL**	µg/L	10	5.0	1	8270C	06/15/06 23:40	kelliot	Q15582
Naphthalene	**BRL**	µg/L	10	1.9	1	8270C	06/15/06 23:40	kelliot	Q15582
Nitrobenzene	**BRL**	µg/L	10	2.4	1	8270C	06/15/06 23:40	kelliot	Q15582
o,o,o-Triethylphosphorthioate	**BRL**	µg/L	10	5.0	1	8270C	06/15/06 23:40	kelliot	Q15582
o-Toluidine	**BRL**	µg/L	10	5.0	1	8270C	06/15/06 23:40	kelliot	Q15582
p-Dimethylaminoazobenzene	**BRL**	µg/L	10	5.0	1	8270C	06/15/06 23:40	kelliot	Q15582
Pentachlorobenzene	**BRL**	µg/L	10	5.0	1	8270C	06/15/06 23:40	kelliot	Q15582
Pentachloronitrobenzene	**BRL**	µg/L	10	5.0	1	8270C	06/15/06 23:40	kelliot	Q15582
Pentachlorophenol	**BRL**	µg/L	10	0.65	1	8270C	06/15/06 23:40	kelliot	Q15582
Phenacetin	**BRL**	µg/L	10	5.0	1	8270C	06/15/06 23:40	kelliot	Q15582
Phenanthrene	**BRL**	µg/L	10	0.58	1	8270C	06/15/06 23:40	kelliot	Q15582
Phenol	**BRL**	µg/L	10	3.8	1	8270C	06/15/06 23:40	kelliot	Q15582
Phorate	**BRL**	µg/L	10	5.0	1	8270C	06/15/06 23:40	kelliot	Q15582
Pronamide	**BRL**	µg/L	10	5.0	1	8270C	06/15/06 23:40	kelliot	Q15582
Pyrene	**BRL**	µg/L	10	1.1	1	8270C	06/15/06 23:40	kelliot	Q15582
Safrole	**BRL**	µg/L	10	5.0	1	8270C	06/15/06 23:40	kelliot	Q15582
Thionazin	**BRL**	µg/L	10	5.0	1	8270C	06/15/06 23:40	kelliot	Q15582

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06/27/06

Weston Solutions
Attn: Tara Rowland
4917 Waters Edge
Suite 235
Raleigh, NC 27606

Project Name: Durham County Landfill
Project ID: Assessment Monitoring
Sample Matrix: Water

Client Sample ID: S-1
Prism Sample ID: 152769
COC Group: G0606188
Time Collected: 06/05/06 12:45
Time Submitted: 06/07/06 16:30

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Sample Preparation:			1000 mL /		1 mL	3510C	06/10/06 9:00	smanivanh	P15587

Surrogate	% Recovery	Control Limits
Terphenyl-d14	97	41 - 136
Phenol-d5	10	10 - 78
Nitrobenzene-d5	74	13 - 107
2-Fluorophenol	21	10 - 75
2-Fluorobiphenyl	78	27 - 107
2,4,6-Tribromophenol	80	38 - 117

Cyanide by Colorimetric Method									
Cyanide, Total	[redacted]	mg/L	0.0020	0.0016	1	9014	06/16/06 11:16	cmatthews	Q15692
Sample Preparation:			500 mL /		500 mL	9010	06/14/06 15:25	cmatthews	P15642
Sulfide by Iodometric Method									
Sulfide	**BRL**	mg/L	2.0	0.094	1	376.1	06/12/06 8:00	cmatthews	Q15504

Sample Comment(s):

BRL = Below Reporting Limit
J = Estimated value between the Reporting Limit and the MDL
The results in this report relate only to the samples submitted for analysis and meet state certification requirements other than NELAC certification except for those instances indicated in the case narrative and/or test comments.

Angela D. Overcash, V.P. Laboratory Services

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Weston Solutions
Attn: Tara Rowland
4917 Waters Edge
Suite 235
Raleigh, NC 27606

Project Name: Durham County Landfill
Project ID: Assessment Monitoring
Sample Matrix: Water

Client Sample ID: MW-4R
Prism Sample ID: 152770
COC Group: G0606188
Time Collected: 06/06/06 8:35
Time Submitted: 06/07/06 16:30

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Organochlorine Pesticides and PCBs by GC/ECD									
4,4'-DDD	BRL	µg/L	0.050	0.027	1	8081A	06/15/06 19:14	jvogel	Q15726
4,4'-DDE	BRL	µg/L	0.050	0.012	1	8081A	06/15/06 19:14	jvogel	Q15726
4,4'-DDT	BRL	µg/L	0.050	0.036	1	8081A	06/15/06 19:14	jvogel	Q15726
4,4'-Methoxychlor	BRL	µg/L	0.050	0.045	1	8081A	06/15/06 19:14	jvogel	Q15726
a-BHC	BRL	µg/L	0.050	0.010	1	8081A	06/15/06 19:14	jvogel	Q15726
Aldrin	BRL	µg/L	0.050	0.018	1	8081A	06/15/06 19:14	jvogel	Q15726
b-BHC	BRL	µg/L	0.050	0.021	1	8081A	06/15/06 19:14	jvogel	Q15726
Chlordane	BRL	µg/L	0.50	0.10	1	8081A	06/15/06 19:14	jvogel	Q15726
d-BHC	BRL	µg/L	0.050	0.015	1	8081A	06/15/06 19:14	jvogel	Q15726
Dieldrin	BRL	µg/L	0.050	0.013	1	8081A	06/15/06 19:14	jvogel	Q15726
Endosulfan I	BRL	µg/L	0.050	0.010	1	8081A	06/15/06 19:14	jvogel	Q15726
Endosulfan II	BRL	µg/L	0.050	0.019	1	8081A	06/15/06 19:14	jvogel	Q15726
Endosulfan Sulfate	BRL	µg/L	0.050	0.024	1	8081A	06/15/06 19:14	jvogel	Q15726
Endrin	BRL	µg/L	0.050	0.027	1	8081A	06/15/06 19:14	jvogel	Q15726
Endrin Aldehyde	BRL	µg/L	0.050	0.014	1	8081A	06/15/06 19:14	jvogel	Q15726
g-BHC	BRL	µg/L	0.050	0.021	1	8081A	06/15/06 19:14	jvogel	Q15726
Heptachlor	BRL	µg/L	0.050	0.022	1	8081A	06/15/06 19:14	jvogel	Q15726
Heptachlor Epoxide	BRL	µg/L	0.050	0.018	1	8081A	06/15/06 19:14	jvogel	Q15726
Toxaphene	BRL	µg/L	0.50	0.23	1	8081A	06/15/06 19:14	jvogel	Q15726
Sample Preparation:			980 mL / 10 mL			3510C	06/12/06 9:00	smanivanh	P15597

Surrogate	% Recovery	Control Limits
Tetrachloro-m-xylene (TCMX)	91	40 - 134
Decachlorobiphenyl (DCB)	83	13 - 186

Polychlorinated Biphenyls (PCBs) by GC-ECD									
PCB-1016	BRL	µg/L	0.50	0.17	1	8082	06/15/06 19:14	jvogel	Q15728
PCB-1221	BRL	µg/L	1.0	0.33	1	8082	06/15/06 19:14	jvogel	Q15728

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Full Service Analytical & Environmental Solutions

Laboratory Report

06/27/06

Weston Solutions
Attn: Tara Rowland
4917 Waters Edge
Suite 235
Raleigh, NC 27606

Project Name: Durham County Landfill
Project ID: Assessment Monitoring
Sample Matrix: Water

Client Sample ID: MW-4R
Prism Sample ID: 152770
COC Group: G0606188
Time Collected: 06/06/06 8:35
Time Submitted: 06/07/06 16:30

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
PCB-1232	BRL	µg/L	0.50	0.25	1	8082	06/15/06 19:14	jvogel	Q15728
PCB-1242	BRL	µg/L	1.0	0.36	1	8082	06/15/06 19:14	jvogel	Q15728
PCB-1248	BRL	µg/L	0.50	0.25	1	8082	06/15/06 19:14	jvogel	Q15728
PCB-1254	BRL	µg/L	0.50	0.25	1	8082	06/15/06 19:14	jvogel	Q15728
PCB-1260	BRL	µg/L	0.50	0.26	1	8082	06/15/06 19:14	jvogel	Q15728
Sample Preparation:			980 mL / 10 mL			3510C	06/12/06 9:00	smanivanh	P15598

Surrogate	% Recovery	Control Limits
Tetrachloro-m-xylene (TCMX)	91	30 - 161
Decachlorobiphenyl (DCB)	83	32 - 178

Volatile Organic Compounds by GC/MS

1,1,1,2-Tetrachloroethane	BRL	µg/L	1.0	0.40	1	8260B	06/15/06 17:31	kcampigotto	Q15627
1,1,1-Trichloroethane	BRL	µg/L	1.0	0.45	1	8260B	06/15/06 17:31	kcampigotto	Q15627
1,1,2,2-Tetrachloroethane	BRL	µg/L	1.0	0.30	1	8260B	06/15/06 17:31	kcampigotto	Q15627
1,1,2-Trichloroethane	BRL	µg/L	1.0	0.42	1	8260B	06/15/06 17:31	kcampigotto	Q15627
1,1-Dichloroethane	BRL	µg/L	1.0	0.38	1	8260B	06/15/06 17:31	kcampigotto	Q15627
1,1-Dichloroethene	BRL	µg/L	1.0	0.43	1	8260B	06/15/06 17:31	kcampigotto	Q15627
1,1-Dichloropropene	BRL	µg/L	1.0	0.39	1	8260B	06/15/06 17:31	kcampigotto	Q15627
1,2,3-Trichlorobenzene	BRL	µg/L	2.0	0.57	1	8260B	06/15/06 17:31	kcampigotto	Q15627
1,2,3-Trichloropropane	BRL	µg/L	1.0	0.50	1	8260B	06/15/06 17:31	kcampigotto	Q15627
1,2,4-Trichlorobenzene	BRL	µg/L	1.0	0.42	1	8260B	06/15/06 17:31	kcampigotto	Q15627
1,2-Dibromo-3-chloropropane	BRL	µg/L	2.0	0.56	1	8260B	06/15/06 17:31	kcampigotto	Q15627
1,2-Dibromoethane (EDB)	BRL	µg/L	1.0	0.46	1	8260B	06/15/06 17:31	kcampigotto	Q15627
1,2-Dichlorobenzene	BRL	µg/L	1.0	0.27	1	8260B	06/15/06 17:31	kcampigotto	Q15627
1,2-Dichloroethane	BRL	µg/L	1.0	0.36	1	8260B	06/15/06 17:31	kcampigotto	Q15627
1,2-Dichloropropane	BRL	µg/L	1.0	0.26	1	8260B	06/15/06 17:31	kcampigotto	Q15627
1,3-Dichlorobenzene	BRL	µg/L	1.0	0.22	1	8260B	06/15/06 17:31	kcampigotto	Q15627

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06/27/06

Weston Solutions
Attn: Tara Rowland
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Raleigh, NC 27606

Project Name: Durham County Landfill
Project ID: Assessment Monitoring
Sample Matrix: Water

Client Sample ID: MW-4R
Prism Sample ID: 152770
COC Group: G0606188
Time Collected: 06/06/06 8:35
Time Submitted: 06/07/06 16:30

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
1,3-Dichloropropane	BRL	µg/L	1.0	0.26	1	8260B	06/15/06 17:31	kcampigotto	Q15627
1,4-Dichlorobenzene	BRL	µg/L	1.0	0.32	1	8260B	06/15/06 17:31	kcampigotto	Q15627
2,2-Dichloropropane	BRL	µg/L	2.0	0.73	1	8260B	06/15/06 17:31	kcampigotto	Q15627
2-Hexanone	BRL	µg/L	5.0	0.38	1	8260B	06/15/06 17:31	kcampigotto	Q15627
4-Methyl-2-pentanone (MIBK)	BRL	µg/L	5.0	0.32	1	8260B	06/15/06 17:31	kcampigotto	Q15627
Acetone	BRL	µg/L	10	2.5	1	8260B	06/15/06 17:31	kcampigotto	Q15627
Acetonitrile	BRL	µg/L	20	5.0	1	8260B	06/15/06 17:31	kcampigotto	Q15627
Acrolein	BRL	µg/L	100	4.5	1	8260B	06/15/06 17:31	kcampigotto	Q15627
Acrylonitrile	BRL	µg/L	100	0.65	1	8260B	06/15/06 17:31	kcampigotto	Q15627
Allyl chloride	BRL	µg/L	10	5.0	1	8260B	06/15/06 17:31	kcampigotto	Q15627
Benzene	BRL	µg/L	0.50	0.14	1	8260B	06/15/06 17:31	kcampigotto	Q15627
Bromochloromethane	BRL	µg/L	1.0	0.31	1	8260B	06/15/06 17:31	kcampigotto	Q15627
Bromodichloromethane	BRL	µg/L	1.0	0.31	1	8260B	06/15/06 17:31	kcampigotto	Q15627
Bromoform	BRL	µg/L	1.0	0.39	1	8260B	06/15/06 17:31	kcampigotto	Q15627
Bromomethane	BRL	µg/L	3.0	1.1	1	8260B	06/15/06 17:31	kcampigotto	Q15627
Carbon disulfide	BRL	µg/L	5.0	0.71	1	8260B	06/15/06 17:31	kcampigotto	Q15627
Carbon tetrachloride	BRL	µg/L	2.0	0.52	1	8260B	06/15/06 17:31	kcampigotto	Q15627
Chlorobenzene	BRL	µg/L	1.0	0.24	1	8260B	06/15/06 17:31	kcampigotto	Q15627
Chlorodibromomethane	BRL	µg/L	1.0	0.10	1	8260B	06/15/06 17:31	kcampigotto	Q15627
Chloroethane	BRL	µg/L	5.0	1.6	1	8260B	06/15/06 17:31	kcampigotto	Q15627
Chloroform	BRL	µg/L	1.0	0.35	1	8260B	06/15/06 17:31	kcampigotto	Q15627
Chloromethane	BRL	µg/L	2.0	0.47	1	8260B	06/15/06 17:31	kcampigotto	Q15627
Chloroprene	BRL	µg/L	10	5.0	1	8260B	06/15/06 17:31	kcampigotto	Q15627
cis-1,2-Dichloroethene	BRL	µg/L	1.0	0.47	1	8260B	06/15/06 17:31	kcampigotto	Q15627
cis-1,3-Dichloropropene	BRL	µg/L	1.0	0.29	1	8260B	06/15/06 17:31	kcampigotto	Q15627
Dibromomethane	BRL	µg/L	1.0	0.34	1	8260B	06/15/06 17:31	kcampigotto	Q15627
Dichlorodifluoromethane	BRL	µg/L	2.0	0.26	1	8260B	06/15/06 17:31	kcampigotto	Q15627
Ethyl methacrylate	BRL	µg/L	10	5.0	1	8260B	06/15/06 17:31	kcampigotto	Q15627

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Weston Solutions
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Project Name: Durham County Landfill
Project ID: Assessment Monitoring
Sample Matrix: Water

Client Sample ID: MW-4R
Prism Sample ID: 152770
COC Group: G0606188
Time Collected: 06/06/06 8:35
Time Submitted: 06/07/06 16:30

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Ethylbenzene	BRL	µg/L	1.0	0.32	1	8260B	06/15/06 17:31	kcampigotto	Q15627
Isobutyl alcohol	BRL	µg/L	10	5.0	1	8260B	06/15/06 17:31	kcampigotto	Q15627
m,p-Xylenes	BRL	µg/L	2.0	0.51	1	8260B	06/15/06 17:31	kcampigotto	Q15627
Methacrylonitrile	BRL	µg/L	10	5.0	1	8260B	06/15/06 17:31	kcampigotto	Q15627
Methyl ethyl ketone (MEK)	BRL	µg/L	5.0	0.81	1	8260B	06/15/06 17:31	kcampigotto	Q15627
Methyl iodide	BRL	µg/L	5.0	2.0	1	8260B	06/15/06 17:31	kcampigotto	Q15627
Methyl methacrylate	BRL	µg/L	10	5.0	1	8260B	06/15/06 17:31	kcampigotto	Q15627
Methylene chloride	BRL	µg/L	2.0	0.61	1	8260B	06/15/06 17:31	kcampigotto	Q15627
o-Xylene	BRL	µg/L	1.0	0.24	1	8260B	06/15/06 17:31	kcampigotto	Q15627
Propionitrile	BRL	µg/L	10	5.0	1	8260B	06/15/06 17:31	kcampigotto	Q15627
Styrene	BRL	µg/L	1.0	0.22	1	8260B	06/15/06 17:31	kcampigotto	Q15627
Tetrachloroethene	BRL	µg/L	1.0	0.49	1	8260B	06/15/06 17:31	kcampigotto	Q15627
Toluene	BRL	µg/L	1.0	0.39	1	8260B	06/15/06 17:31	kcampigotto	Q15627
trans-1,2-Dichloroethene	BRL	µg/L	2.0	0.56	1	8260B	06/15/06 17:31	kcampigotto	Q15627
trans-1,3-Dichloropropene	BRL	µg/L	1.0	0.38	1	8260B	06/15/06 17:31	kcampigotto	Q15627
trans-1,4-Dichloro-2-butene	BRL	µg/L	10	5.0	1	8260B	06/15/06 17:31	kcampigotto	Q15627
Trichloroethene	BRL	µg/L	2.0	0.52	1	8260B	06/15/06 17:31	kcampigotto	Q15627
Trichlorofluoromethane	BRL	µg/L	2.0	0.65	1	8260B	06/15/06 17:31	kcampigotto	Q15627
Vinyl acetate	BRL	µg/L	20	10	1	8260B	06/15/06 17:31	kcampigotto	Q15627
Vinyl chloride	BRL	µg/L	2.0	0.60	1	8260B	06/15/06 17:31	kcampigotto	Q15627

Surrogate	% Recovery	Control Limits
Toluene-d8	94	75 - 121
Dibromofluoromethane	103	74 - 133
Bromofluorobenzene	98	69 - 139

Semi-volatile Organics by GC/MS

1,2,4,5-Tetrachlorobenzene	BRL	µg/L	10	5.0	1	8270C	06/15/06 7:33	kelliot	Q15582

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NC Drinking Water Cert. No. 37735

Full Service Analytical & Environmental Solutions

Laboratory Report

06/27/06

Weston Solutions
Attn: Tara Rowland
4917 Waters Edge
Suite 235
Raleigh, NC 27606

Project Name: Durham County Landfill
Project ID: Assessment Monitoring
Sample Matrix: Water

Client Sample ID: MW-4R
Prism Sample ID: 152770
COC Group: G0606188
Time Collected: 06/06/06 8:35
Time Submitted: 06/07/06 16:30

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
1,3,5-Trinitrobenzene	BRL	µg/L	10	5.0	1	8270C	06/15/06 7:33	kelliot	Q15582
1,3-Dinitrobenzene	BRL	µg/L	10	5.0	1	8270C	06/15/06 7:33	kelliot	Q15582
1,4-Diphenylenediamine	BRL	µg/L	10	5.0	1	8270C	06/15/06 7:33	kelliot	Q15582
1,4-Napthaquinone	BRL	µg/L	10	5.0	1	8270C	06/15/06 7:33	kelliot	Q15582
1-Napthylamine	BRL	µg/L	10	5.0	1	8270C	06/15/06 7:33	kelliot	Q15582
2,3,4,6-Tetrachlorophenol	BRL	µg/L	10	5.0	1	8270C	06/15/06 7:33	kelliot	Q15582
2,4,5-Trichlorophenol	BRL	µg/L	9.8	2.5	1	8270C	06/15/06 7:33	kelliot	Q15582
2,4,6-Trichlorophenol	BRL	µg/L	9.8	2.5	1	8270C	06/15/06 7:33	kelliot	Q15582
2,4-Dichlorophenol	BRL	µg/L	9.8	2.4	1	8270C	06/15/06 7:33	kelliot	Q15582
2,4-Dimethylphenol	BRL	µg/L	9.8	2.8	1	8270C	06/15/06 7:33	kelliot	Q15582
2,4-Dinitrophenol	BRL	µg/L	9.8	2.2	1	8270C	06/15/06 7:33	kelliot	Q15582
2,4-Dinitrotoluene	BRL	µg/L	9.8	1.3	1	8270C	06/15/06 7:33	kelliot	Q15582
2,6-Dichlorophenol	BRL	µg/L	10	5.0	1	8270C	06/15/06 7:33	kelliot	Q15582
2,6-Dinitrotoluene	BRL	µg/L	9.8	1.3	1	8270C	06/15/06 7:33	kelliot	Q15582
2-Acetylaminofluorene	BRL	µg/L	10	5.0	1	8270C	06/15/06 7:33	kelliot	Q15582
2-Chloronaphthalene	BRL	µg/L	9.8	2.2	1	8270C	06/15/06 7:33	kelliot	Q15582
2-Chlorophenol	BRL	µg/L	9.8	2.4	1	8270C	06/15/06 7:33	kelliot	Q15582
2-Methylnaphthalene	BRL	µg/L	9.8	1.8	1	8270C	06/15/06 7:33	kelliot	Q15582
2-Methylphenol	BRL	µg/L	9.8	2.7	1	8270C	06/15/06 7:33	kelliot	Q15582
2-Napthylamine	BRL	µg/L	10	5.0	1	8270C	06/15/06 7:33	kelliot	Q15582
2-Nitroaniline	BRL	µg/L	9.8	2.1	1	8270C	06/15/06 7:33	kelliot	Q15582
2-Nitrophenol	BRL	µg/L	9.8	3.0	1	8270C	06/15/06 7:33	kelliot	Q15582
3&4-Methylphenol	BRL	µg/L	9.8	3.6	1	8270C	06/15/06 7:33	kelliot	Q15582
3,3'-Dichlorobenzidine	BRL	µg/L	9.8	2.5	1	8270C	06/15/06 7:33	kelliot	Q15582
3,3'-Dimethylbenzidine	BRL	µg/L	10	5.0	1	8270C	06/15/06 7:33	kelliot	Q15582
3-Methylcholanthrene	BRL	µg/L	10	5.0	1	8270C	06/15/06 7:33	kelliot	Q15582
3-Nitroaniline	BRL	µg/L	9.8	1.8	1	8270C	06/15/06 7:33	kelliot	Q15582
4,6-Dinitro-2-methylphenol	BRL	µg/L	9.8	1.2	1	8270C	06/15/06 7:33	kelliot	Q15582

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NC Drinking Water Cert. No. 37735

Full Service Analytical & Environmental Solutions

Laboratory Report

06/27/06

Weston Solutions
Attn: Tara Rowland
4917 Waters Edge
Suite 235
Raleigh, NC 27606

Project Name: Durham County Landfill
Project ID: Assessment Monitoring
Sample Matrix: Water

Client Sample ID: MW-4R
Prism Sample ID: 152770
COC Group: G0606188
Time Collected: 06/06/06 8:35
Time Submitted: 06/07/06 16:30

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
4-Aminobiphenyl	BRL	µg/L	10	5.0	1	8270C	06/15/06 7:33	kelliot	Q15582
4-Bromophenylphenylether	BRL	µg/L	9.8	1.5	1	8270C	06/15/06 7:33	kelliot	Q15582
4-Chloro-3-methylphenol	BRL	µg/L	9.8	1.8	1	8270C	06/15/06 7:33	kelliot	Q15582
4-Chloroaniline	BRL	µg/L	9.8	2.5	1	8270C	06/15/06 7:33	kelliot	Q15582
4-Chlorophenylphenylether	BRL	µg/L	9.8	1.9	1	8270C	06/15/06 7:33	kelliot	Q15582
4-Nitroaniline	BRL	µg/L	9.8	1.8	1	8270C	06/15/06 7:33	kelliot	Q15582
4-Nitrophenol	BRL	µg/L	9.8	0.54	1	8270C	06/15/06 7:33	kelliot	Q15582
5-Nitro-o-toluidine	BRL	µg/L	10	5.0	1	8270C	06/15/06 7:33	kelliot	Q15582
7,12-Dimethylbenz(a)anthracen	BRL	µg/L	10	5.0	1	8270C	06/15/06 7:33	kelliot	Q15582
Acenaphthene	BRL	µg/L	9.8	2.2	1	8270C	06/15/06 7:33	kelliot	Q15582
Acenaphthylene	BRL	µg/L	9.8	2.0	1	8270C	06/15/06 7:33	kelliot	Q15582
Acetophenone	BRL	µg/L	10	5.0	1	8270C	06/15/06 7:33	kelliot	Q15582
Anthracene	BRL	µg/L	9.8	0.75	1	8270C	06/15/06 7:33	kelliot	Q15582
Benzo(a)anthracene	BRL	µg/L	9.8	1.2	1	8270C	06/15/06 7:33	kelliot	Q15582
Benzo(a)pyrene	BRL	µg/L	9.8	0.90	1	8270C	06/15/06 7:33	kelliot	Q15582
Benzo(b)fluoranthene	BRL	µg/L	9.8	1.1	1	8270C	06/15/06 7:33	kelliot	Q15582
Benzo(g,h,i)perylene	BRL	µg/L	9.8	1.3	1	8270C	06/15/06 7:33	kelliot	Q15582
Benzo(k)fluoranthene	BRL	µg/L	9.8	1.1	1	8270C	06/15/06 7:33	kelliot	Q15582
Benzyl alcohol	BRL	µg/L	9.8	1.8	1	8270C	06/15/06 7:33	kelliot	Q15582
Bis(2-chloroethoxy)methane	BRL	µg/L	9.8	2.3	1	8270C	06/15/06 7:33	kelliot	Q15582
Bis(2-chloroethyl)ether	BRL	µg/L	9.8	2.7	1	8270C	06/15/06 7:33	kelliot	Q15582
Bis(2-chloroisopropyl)ether	BRL	µg/L	9.8	2.7	1	8270C	06/15/06 7:33	kelliot	Q15582
Bis(2-ethylhexyl)phthalate	BRL	µg/L	9.8	1.2	1	8270C	06/15/06 7:33	kelliot	Q15582
Butylbenzylphthalate	BRL	µg/L	9.8	0.74	1	8270C	06/15/06 7:33	kelliot	Q15582
Chlorobenzilate	BRL	µg/L	10	5.0	1	8270C	06/15/06 7:33	kelliot	Q15582
Chrysene	BRL	µg/L	9.8	0.93	1	8270C	06/15/06 7:33	kelliot	Q15582
Di-n-butylphthalate	BRL	µg/L	9.8	0.84	1	8270C	06/15/06 7:33	kelliot	Q15582
Di-n-octylphthalate	BRL	µg/L	9.8	2.0	1	8270C	06/15/06 7:33	kelliot	Q15582

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Laboratory Report

06/27/06

Weston Solutions
Attn: Tara Rowland
4917 Waters Edge
Suite 235
Raleigh, NC 27606

Project Name: Durham County Landfill
Project ID: Assessment Monitoring
Sample Matrix: Water

Client Sample ID: MW-4R
Prism Sample ID: 152770
COC Group: G0606188
Time Collected: 06/06/06 8:35
Time Submitted: 06/07/06 16:30

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Diallate	BRL	µg/L	10	5.0	1	8270C	06/15/06 7:33	kelliot	Q15582
Dibenzo(a,h)anthracene	BRL	µg/L	9.8	1.5	1	8270C	06/15/06 7:33	kelliot	Q15582
Dibenzofuran	BRL	µg/L	9.8	2.2	1	8270C	06/15/06 7:33	kelliot	Q15582
Diethylphthalate	BRL	µg/L	9.8	1.5	1	8270C	06/15/06 7:33	kelliot	Q15582
Dimethoate	BRL	µg/L	10	5.0	1	8270C	06/15/06 7:33	kelliot	Q15582
Dimethylphthalate	BRL	µg/L	9.8	2.1	1	8270C	06/15/06 7:33	kelliot	Q15582
Dinoseb	BRL	µg/L	10	5.0	1	8270C	06/15/06 7:33	kelliot	Q15582
Diphenylamine	BRL	µg/L	10	5.0	1	8270C	06/15/06 7:33	kelliot	Q15582
Disulfoton	BRL	µg/L	10	5.0	1	8270C	06/15/06 7:33	kelliot	Q15582
Ethylmethane sulfonate	BRL	µg/L	10	5.0	1	8270C	06/15/06 7:33	kelliot	Q15582
Famphur	BRL	µg/L	10	5.0	1	8270C	06/15/06 7:33	kelliot	Q15582
Fluoranthene	BRL	µg/L	9.8	0.61	1	8270C	06/15/06 7:33	kelliot	Q15582
Fluorene	BRL	µg/L	9.8	2.4	1	8270C	06/15/06 7:33	kelliot	Q15582
Hexachlorobenzene	BRL	µg/L	9.8	1.1	1	8270C	06/15/06 7:33	kelliot	Q15582
Hexachlorobutadiene	BRL	µg/L	9.8	1.9	1	8270C	06/15/06 7:33	kelliot	Q15582
Hexachlorocyclopentadiene	BRL	µg/L	9.8	2.4	1	8270C	06/15/06 7:33	kelliot	Q15582
Hexachloroethane	BRL	µg/L	9.8	2.1	1	8270C	06/15/06 7:33	kelliot	Q15582
Hexachloropropene	BRL	µg/L	10	5.0	1	8270C	06/15/06 7:33	kelliot	Q15582
Indeno(1,2,3-cd)pyrene	BRL	µg/L	9.8	1.8	1	8270C	06/15/06 7:33	kelliot	Q15582
Isodrin	BRL	µg/L	10	5.0	1	8270C	06/15/06 7:33	kelliot	Q15582
Isophorone	BRL	µg/L	9.8	2.9	1	8270C	06/15/06 7:33	kelliot	Q15582
Isosafrole	BRL	µg/L	10	5.0	1	8270C	06/15/06 7:33	kelliot	Q15582
Kepone	BRL	µg/L	10	5.0	1	8270C	06/15/06 7:33	kelliot	Q15582
Methapyrilene	BRL	µg/L	10	5.0	1	8270C	06/15/06 7:33	kelliot	Q15582
Methyl parathion	BRL	µg/L	9.8	4.9	1	8270C	06/15/06 7:33	kelliot	Q15582
Methylmethane sulfonate	BRL	µg/L	10	5.0	1	8270C	06/15/06 7:33	kelliot	Q15582
N-Nitrosodi-n-propylamine	BRL	µg/L	9.8	2.6	1	8270C	06/15/06 7:33	kelliot	Q15582
N-Nitrosodibutylamine	BRL	µg/L	10	5.0	1	8270C	06/15/06 7:33	kelliot	Q15582

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Full Service Analytical & Environmental Solutions

Laboratory Report

06/27/06

Weston Solutions
Attn: Tara Rowland
4917 Waters Edge
Suite 235
Raleigh, NC 27606

Project Name: Durham County Landfill
Project ID: Assessment Monitoring
Sample Matrix: Water

Client Sample ID: MW-4R
Prism Sample ID: 152770
COC Group: G0606188
Time Collected: 06/06/06 8:35
Time Submitted: 06/07/06 16:30

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
N-Nitrosodiethylamine	BRL	µg/L	10	5.0	1	8270C	06/15/06 7:33	kelliot	Q15582
N-Nitrosodimethylamine	BRL	µg/L	9.8	0.98	1	8270C	06/15/06 7:33	kelliot	Q15582
N-Nitrosodimethylethylamine	BRL	µg/L	10	5.0	1	8270C	06/15/06 7:33	kelliot	Q15582
N-Nitrosodiphenylamine	BRL	µg/L	9.8	1.5	1	8270C	06/15/06 7:33	kelliot	Q15582
n-Nitrosopiperidine	BRL	µg/L	10	5.0	1	8270C	06/15/06 7:33	kelliot	Q15582
N-Nitrosopyrrolidine	BRL	µg/L	10	5.0	1	8270C	06/15/06 7:33	kelliot	Q15582
Naphthalene	BRL	µg/L	9.8	1.9	1	8270C	06/15/06 7:33	kelliot	Q15582
Nitrobenzene	BRL	µg/L	9.8	2.4	1	8270C	06/15/06 7:33	kelliot	Q15582
o,o,o-Triethylphosphorthioate	BRL	µg/L	10	5.0	1	8270C	06/15/06 7:33	kelliot	Q15582
o-Toluidine	BRL	µg/L	10	5.0	1	8270C	06/15/06 7:33	kelliot	Q15582
p-Dimethylaminoazobenzene	BRL	µg/L	10	5.0	1	8270C	06/15/06 7:33	kelliot	Q15582
Pentachlorobenzene	BRL	µg/L	10	5.0	1	8270C	06/15/06 7:33	kelliot	Q15582
Pentachloronitrobenzene	BRL	µg/L	10	5.0	1	8270C	06/15/06 7:33	kelliot	Q15582
Pentachlorophenol	BRL	µg/L	9.8	0.64	1	8270C	06/15/06 7:33	kelliot	Q15582
Phenacetin	BRL	µg/L	10	5.0	1	8270C	06/15/06 7:33	kelliot	Q15582
Phenanthrene	BRL	µg/L	9.8	0.57	1	8270C	06/15/06 7:33	kelliot	Q15582
Phenol	BRL	µg/L	9.8	3.7	1	8270C	06/15/06 7:33	kelliot	Q15582
Phorate	BRL	µg/L	10	5.0	1	8270C	06/15/06 7:33	kelliot	Q15582
Pronamide	BRL	µg/L	10	5.0	1	8270C	06/15/06 7:33	kelliot	Q15582
Pyrene	BRL	µg/L	9.8	1.1	1	8270C	06/15/06 7:33	kelliot	Q15582
Safrole	BRL	µg/L	10	5.0	1	8270C	06/15/06 7:33	kelliot	Q15582
Thionazin	BRL	µg/L	10	5.0	1	8270C	06/15/06 7:33	kelliot	Q15582

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Full Service Analytical & Environmental Solutions

Laboratory Report

06/27/06

Weston Solutions
Attn: Tara Rowland
4917 Waters Edge
Suite 235
Raleigh, NC 27606

Project Name: Durham County Landfill
Project ID: Assessment Monitoring
Sample Matrix: Water

Client Sample ID: MW-4R
Prism Sample ID: 152770
COC Group: G0606188
Time Collected: 06/06/06 8:35
Time Submitted: 06/07/06 16:30

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Sample Preparation:			1020 mL /		1 mL	3510C	06/10/06 9:00	smanivanh	P15587

Surrogate	% Recovery	Control Limits
Terphenyl-d14	110	41 - 136
Phenol-d5	18	10 - 78
Nitrobenzene-d5	96	13 - 107
2-Fluorophenol	28	10 - 75
2-Fluorobiphenyl	91	27 - 107
2,4,6-Tribromophenol	97	38 - 117

Cyanide by Colorimetric Method									
Cyanide, Total	[redacted]	mg/L	0.0020	0.0016	1	9014	06/16/06 11:16	cmatthews	Q15692
Sample Preparation:			500 mL /		500 mL	9010	06/14/06 15:25	cmatthews	P15642
Sulfide by Iodometric Method									
Sulfide	**BRL**	mg/L	2.0	0.094	1	376.1	06/12/06 8:00	cmatthews	Q15504

Sample Comment(s):

BRL = Below Reporting Limit

J = Estimated value between the Reporting Limit and the MDL

The results in this report relate only to the samples submitted for analysis and meet state certification requirements other than NELAC certification except for those instances indicated in the case narrative and/or test comments.

Angela D. Overcash, V.P. Laboratory Services

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Full Service Analytical & Environmental Solutions

Laboratory Report

06/27/06

Weston Solutions
Attn: Tara Rowland
4917 Waters Edge
Suite 235
Raleigh, NC 27606

Project Name: Durham County Landfill
Project ID: Assessment Monitoring
Sample Matrix: Water

Client Sample ID: MW-3
Prism Sample ID: 152771
COC Group: G0606188
Time Collected: 06/06/06 10:30
Time Submitted: 06/07/06 16:30

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Organochlorine Pesticides and PCBs by GC/ECD									
4,4'-DDD	BRL	µg/L	0.050	0.027	1	8081A	06/15/06 19:57	jvogel	Q15726
4,4'-DDE	BRL	µg/L	0.050	0.012	1	8081A	06/15/06 19:57	jvogel	Q15726
4,4'-DDT	BRL	µg/L	0.050	0.036	1	8081A	06/15/06 19:57	jvogel	Q15726
4,4'-Methoxychlor	BRL	µg/L	0.050	0.045	1	8081A	06/15/06 19:57	jvogel	Q15726
a-BHC	BRL	µg/L	0.050	0.010	1	8081A	06/15/06 19:57	jvogel	Q15726
Aldrin	BRL	µg/L	0.050	0.018	1	8081A	06/15/06 19:57	jvogel	Q15726
b-BHC	BRL	µg/L	0.050	0.021	1	8081A	06/15/06 19:57	jvogel	Q15726
Chlordane	BRL	µg/L	0.50	0.10	1	8081A	06/15/06 19:57	jvogel	Q15726
d-BHC	BRL	µg/L	0.050	0.015	1	8081A	06/15/06 19:57	jvogel	Q15726
Dieldrin	BRL	µg/L	0.050	0.013	1	8081A	06/15/06 19:57	jvogel	Q15726
Endosulfan I	BRL	µg/L	0.050	0.010	1	8081A	06/15/06 19:57	jvogel	Q15726
Endosulfan II	BRL	µg/L	0.050	0.019	1	8081A	06/15/06 19:57	jvogel	Q15726
Endosulfan Sulfate	BRL	µg/L	0.050	0.024	1	8081A	06/15/06 19:57	jvogel	Q15726
Endrin	BRL	µg/L	0.050	0.027	1	8081A	06/15/06 19:57	jvogel	Q15726
Endrin Aldehyde	BRL	µg/L	0.050	0.014	1	8081A	06/15/06 19:57	jvogel	Q15726
g-BHC	BRL	µg/L	0.050	0.021	1	8081A	06/15/06 19:57	jvogel	Q15726
Heptachlor	BRL	µg/L	0.050	0.022	1	8081A	06/15/06 19:57	jvogel	Q15726
Heptachlor Epoxide	BRL	µg/L	0.050	0.018	1	8081A	06/15/06 19:57	jvogel	Q15726
Toxaphene	BRL	µg/L	0.50	0.23	1	8081A	06/15/06 19:57	jvogel	Q15726
Sample Preparation:			1000 mL / 10 mL			3510C	06/12/06 9:00	smanivanh	P15597

Surrogate	% Recovery	Control Limits
Tetrachloro-m-xylene (TCMX)	93	40 - 134
Decachlorobiphenyl (DCB)	91	13 - 186

Polychlorinated Biphenyls (PCBs) by GC-ECD									
PCB-1016	BRL	µg/L	0.50	0.17	1	8082	06/15/06 19:57	jvogel	Q15728
PCB-1221	BRL	µg/L	1.0	0.33	1	8082	06/15/06 19:57	jvogel	Q15728

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Laboratory Report

06/27/06

Weston Solutions
Attn: Tara Rowland
4917 Waters Edge
Suite 235
Raleigh, NC 27606

Project Name: Durham County Landfill
Project ID: Assessment Monitoring
Sample Matrix: Water

Client Sample ID: MW-3
Prism Sample ID: 152771
COC Group: G0606188
Time Collected: 06/06/06 10:30
Time Submitted: 06/07/06 16:30

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
PCB-1232	BRL	µg/L	0.50	0.25	1	8082	06/15/06 19:57	jvogel	Q15728
PCB-1242	BRL	µg/L	1.0	0.36	1	8082	06/15/06 19:57	jvogel	Q15728
PCB-1248	BRL	µg/L	0.50	0.25	1	8082	06/15/06 19:57	jvogel	Q15728
PCB-1254	BRL	µg/L	0.50	0.25	1	8082	06/15/06 19:57	jvogel	Q15728
PCB-1260	BRL	µg/L	0.50	0.26	1	8082	06/15/06 19:57	jvogel	Q15728
Sample Preparation:			1000	mL /	10 mL	3510C	06/12/06 9:00	smanivanh	P15598

Surrogate	% Recovery	Control Limits
Tetrachloro-m-xylene (TCMX)	96	30 - 161
Decachlorobiphenyl (DCB)	92	32 - 178

Volatile Organic Compounds by GC/MS

1,1,1,2-Tetrachloroethane	BRL	µg/L	1.0	0.40	1	8260B	06/15/06 17:56	kcampigotto	Q15627
1,1,1-Trichloroethane	BRL	µg/L	1.0	0.45	1	8260B	06/15/06 17:56	kcampigotto	Q15627
1,1,2,2-Tetrachloroethane	BRL	µg/L	1.0	0.30	1	8260B	06/15/06 17:56	kcampigotto	Q15627
1,1,2-Trichloroethane	BRL	µg/L	1.0	0.42	1	8260B	06/15/06 17:56	kcampigotto	Q15627
1,1-Dichloroethane	BRL	µg/L	1.0	0.38	1	8260B	06/15/06 17:56	kcampigotto	Q15627
1,1-Dichloroethene	BRL	µg/L	1.0	0.43	1	8260B	06/15/06 17:56	kcampigotto	Q15627
1,1-Dichloropropene	BRL	µg/L	1.0	0.39	1	8260B	06/15/06 17:56	kcampigotto	Q15627
1,2,3-Trichlorobenzene	BRL	µg/L	2.0	0.57	1	8260B	06/15/06 17:56	kcampigotto	Q15627
1,2,3-Trichloropropane	BRL	µg/L	1.0	0.50	1	8260B	06/15/06 17:56	kcampigotto	Q15627
1,2,4-Trichlorobenzene	BRL	µg/L	1.0	0.42	1	8260B	06/15/06 17:56	kcampigotto	Q15627
1,2-Dibromo-3-chloropropane	BRL	µg/L	2.0	0.56	1	8260B	06/15/06 17:56	kcampigotto	Q15627
1,2-Dibromoethane (EDB)	BRL	µg/L	1.0	0.46	1	8260B	06/15/06 17:56	kcampigotto	Q15627
1,2-Dichlorobenzene	BRL	µg/L	1.0	0.27	1	8260B	06/15/06 17:56	kcampigotto	Q15627
1,2-Dichloroethane	BRL	µg/L	1.0	0.36	1	8260B	06/15/06 17:56	kcampigotto	Q15627
1,2-Dichloropropane	BRL	µg/L	1.0	0.26	1	8260B	06/15/06 17:56	kcampigotto	Q15627
1,3-Dichlorobenzene	BRL	µg/L	1.0	0.22	1	8260B	06/15/06 17:56	kcampigotto	Q15627

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NC Certification No. 402
SC Certification No. 99012
NC Drinking Water Cert. No. 37735

Full Service Analytical & Environmental Solutions

Laboratory Report

06/27/06

Weston Solutions
Attn: Tara Rowland
4917 Waters Edge
Suite 235
Raleigh, NC 27606

Project Name: Durham County Landfill
Project ID: Assessment Monitoring
Sample Matrix: Water

Client Sample ID: MW-3
Prism Sample ID: 152771
COC Group: G0606188
Time Collected: 06/06/06 10:30
Time Submitted: 06/07/06 16:30

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
1,3-Dichloropropane	BRL	µg/L	1.0	0.26	1	8260B	06/15/06 17:56	kcampigotto	Q15627
1,4-Dichlorobenzene	[redacted]	µg/L	1.0	0.32	1	8260B	06/15/06 17:56	kcampigotto	Q15627
2,2-Dichloropropane	BRL	µg/L	2.0	0.73	1	8260B	06/15/06 17:56	kcampigotto	Q15627
2-Hexanone	BRL	µg/L	5.0	0.38	1	8260B	06/15/06 17:56	kcampigotto	Q15627
4-Methyl-2-pentanone (MIBK)	BRL	µg/L	5.0	0.32	1	8260B	06/15/06 17:56	kcampigotto	Q15627
Acetone	BRL	µg/L	10	2.5	1	8260B	06/15/06 17:56	kcampigotto	Q15627
Acetonitrile	BRL	µg/L	20	5.0	1	8260B	06/15/06 17:56	kcampigotto	Q15627
Acrolein	BRL	µg/L	100	4.5	1	8260B	06/15/06 17:56	kcampigotto	Q15627
Acrylonitrile	BRL	µg/L	100	0.65	1	8260B	06/15/06 17:56	kcampigotto	Q15627
Allyl chloride	BRL	µg/L	10	5.0	1	8260B	06/15/06 17:56	kcampigotto	Q15627
Benzene	[redacted]	µg/L	0.50	0.14	1	8260B	06/15/06 17:56	kcampigotto	Q15627
Bromochloromethane	BRL	µg/L	1.0	0.31	1	8260B	06/15/06 17:56	kcampigotto	Q15627
Bromodichloromethane	BRL	µg/L	1.0	0.31	1	8260B	06/15/06 17:56	kcampigotto	Q15627
Bromoform	BRL	µg/L	1.0	0.39	1	8260B	06/15/06 17:56	kcampigotto	Q15627
Bromomethane	BRL	µg/L	3.0	1.1	1	8260B	06/15/06 17:56	kcampigotto	Q15627
Carbon disulfide	BRL	µg/L	5.0	0.71	1	8260B	06/15/06 17:56	kcampigotto	Q15627
Carbon tetrachloride	BRL	µg/L	2.0	0.52	1	8260B	06/15/06 17:56	kcampigotto	Q15627
Chlorobenzene	[redacted]	µg/L	1.0	0.24	1	8260B	06/15/06 17:56	kcampigotto	Q15627
Chlorodibromomethane	BRL	µg/L	1.0	0.10	1	8260B	06/15/06 17:56	kcampigotto	Q15627
Chloroethane	BRL	µg/L	5.0	1.6	1	8260B	06/15/06 17:56	kcampigotto	Q15627
Chloroform	BRL	µg/L	1.0	0.35	1	8260B	06/15/06 17:56	kcampigotto	Q15627
Chloromethane	BRL	µg/L	2.0	0.47	1	8260B	06/15/06 17:56	kcampigotto	Q15627
Chloroprene	BRL	µg/L	10	5.0	1	8260B	06/15/06 17:56	kcampigotto	Q15627
cis-1,2-Dichloroethene	BRL	µg/L	1.0	0.47	1	8260B	06/15/06 17:56	kcampigotto	Q15627
cis-1,3-Dichloropropene	BRL	µg/L	1.0	0.29	1	8260B	06/15/06 17:56	kcampigotto	Q15627
Dibromomethane	BRL	µg/L	1.0	0.34	1	8260B	06/15/06 17:56	kcampigotto	Q15627
Dichlorodifluoromethane	BRL	µg/L	2.0	0.26	1	8260B	06/15/06 17:56	kcampigotto	Q15627
Ethyl methacrylate	BRL	µg/L	10	5.0	1	8260B	06/15/06 17:56	kcampigotto	Q15627

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Laboratory Report

06/27/06

Weston Solutions
Attn: Tara Rowland
4917 Waters Edge
Suite 235
Raleigh, NC 27606

Project Name: Durham County Landfill
Project ID: Assessment Monitoring
Sample Matrix: Water

Client Sample ID: MW-3
Prism Sample ID: 152771
COC Group: G0606188
Time Collected: 06/06/06 10:30
Time Submitted: 06/07/06 16:30

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Ethylbenzene	BRL	µg/L	1.0	0.32	1	8260B	06/15/06 17:56	kcampigotto	Q15627
Isobutyl alcohol	BRL	µg/L	10	5.0	1	8260B	06/15/06 17:56	kcampigotto	Q15627
m,p-Xylenes	BRL	µg/L	2.0	0.51	1	8260B	06/15/06 17:56	kcampigotto	Q15627
Methacrylonitrile	BRL	µg/L	10	5.0	1	8260B	06/15/06 17:56	kcampigotto	Q15627
Methyl ethyl ketone (MEK)	BRL	µg/L	5.0	0.81	1	8260B	06/15/06 17:56	kcampigotto	Q15627
Methyl iodide	BRL	µg/L	5.0	2.0	1	8260B	06/15/06 17:56	kcampigotto	Q15627
Methyl methacrylate	BRL	µg/L	10	5.0	1	8260B	06/15/06 17:56	kcampigotto	Q15627
Methylene chloride	BRL	µg/L	2.0	0.61	1	8260B	06/15/06 17:56	kcampigotto	Q15627
o-Xylene	BRL	µg/L	1.0	0.24	1	8260B	06/15/06 17:56	kcampigotto	Q15627
Propionitrile	BRL	µg/L	10	5.0	1	8260B	06/15/06 17:56	kcampigotto	Q15627
Styrene	BRL	µg/L	1.0	0.22	1	8260B	06/15/06 17:56	kcampigotto	Q15627
Tetrachloroethene	BRL	µg/L	1.0	0.49	1	8260B	06/15/06 17:56	kcampigotto	Q15627
Toluene	BRL	µg/L	1.0	0.39	1	8260B	06/15/06 17:56	kcampigotto	Q15627
trans-1,2-Dichloroethene	BRL	µg/L	2.0	0.56	1	8260B	06/15/06 17:56	kcampigotto	Q15627
trans-1,3-Dichloropropene	BRL	µg/L	1.0	0.38	1	8260B	06/15/06 17:56	kcampigotto	Q15627
trans-1,4-Dichloro-2-butene	BRL	µg/L	10	5.0	1	8260B	06/15/06 17:56	kcampigotto	Q15627
Trichloroethene	BRL	µg/L	2.0	0.52	1	8260B	06/15/06 17:56	kcampigotto	Q15627
Trichlorofluoromethane	BRL	µg/L	2.0	0.65	1	8260B	06/15/06 17:56	kcampigotto	Q15627
Vinyl acetate	BRL	µg/L	20	10	1	8260B	06/15/06 17:56	kcampigotto	Q15627
Vinyl chloride	BRL	µg/L	2.0	0.60	1	8260B	06/15/06 17:56	kcampigotto	Q15627

Surrogate	% Recovery	Control Limits
Toluene-d8	101	75 - 121
Dibromofluoromethane	109	74 - 133
Bromofluorobenzene	102	69 - 139

Semi-volatile Organics by GC/MS

1,2,4,5-Tetrachlorobenzene	BRL	µg/L	10	5.0	1	8270C	06/16/06 0:33	kelliot	Q15582

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Full Service Analytical & Environmental Solutions

Laboratory Report

06/27/06

Weston Solutions
Attn: Tara Rowland
4917 Waters Edge
Suite 235
Raleigh, NC 27606

Project Name: Durham County Landfill
Project ID: Assessment Monitoring
Sample Matrix: Water

Client Sample ID: MW-3
Prism Sample ID: 152771
COC Group: G0606188
Time Collected: 06/06/06 10:30
Time Submitted: 06/07/06 16:30

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
1,3,5-Trinitrobenzene	BRL	µg/L	10	5.0	1	8270C	06/16/06 0:33	kelliot	Q15582
1,3-Dinitrobenzene	BRL	µg/L	10	5.0	1	8270C	06/16/06 0:33	kelliot	Q15582
1,4-Diphenylenediamine	BRL	µg/L	10	5.0	1	8270C	06/16/06 0:33	kelliot	Q15582
1,4-Napthaquinone	BRL	µg/L	10	5.0	1	8270C	06/16/06 0:33	kelliot	Q15582
1-Napthylamine	BRL	µg/L	10	5.0	1	8270C	06/16/06 0:33	kelliot	Q15582
2,3,4,6-Tetrachlorophenol	BRL	µg/L	10	5.0	1	8270C	06/16/06 0:33	kelliot	Q15582
2,4,5-Trichlorophenol	BRL	µg/L	11	2.9	1	8270C	06/16/06 0:33	kelliot	Q15582
2,4,6-Trichlorophenol	BRL	µg/L	11	2.8	1	8270C	06/16/06 0:33	kelliot	Q15582
2,4-Dichlorophenol	BRL	µg/L	11	2.7	1	8270C	06/16/06 0:33	kelliot	Q15582
2,4-Dimethylphenol	BRL	µg/L	11	3.2	1	8270C	06/16/06 0:33	kelliot	Q15582
2,4-Dinitrophenol	BRL	µg/L	11	2.4	1	8270C	06/16/06 0:33	kelliot	Q15582
2,4-Dinitrotoluene	BRL	µg/L	11	1.4	1	8270C	06/16/06 0:33	kelliot	Q15582
2,6-Dichlorophenol	BRL	µg/L	10	5.0	1	8270C	06/16/06 0:33	kelliot	Q15582
2,6-Dinitrotoluene	BRL	µg/L	11	1.4	1	8270C	06/16/06 0:33	kelliot	Q15582
2-Acetylaminofluorene	BRL	µg/L	10	5.0	1	8270C	06/16/06 0:33	kelliot	Q15582
2-Chloronaphthalene	BRL	µg/L	11	2.4	1	8270C	06/16/06 0:33	kelliot	Q15582
2-Chlorophenol	BRL	µg/L	11	2.7	1	8270C	06/16/06 0:33	kelliot	Q15582
2-Methylnaphthalene	BRL	µg/L	11	2.0	1	8270C	06/16/06 0:33	kelliot	Q15582
2-Methylphenol	BRL	µg/L	11	3.1	1	8270C	06/16/06 0:33	kelliot	Q15582
2-Napthylamine	BRL	µg/L	10	5.0	1	8270C	06/16/06 0:33	kelliot	Q15582
2-Nitroaniline	BRL	µg/L	11	2.3	1	8270C	06/16/06 0:33	kelliot	Q15582
2-Nitrophenol	BRL	µg/L	11	3.4	1	8270C	06/16/06 0:33	kelliot	Q15582
3&4-Methylphenol	BRL	µg/L	11	4.1	1	8270C	06/16/06 0:33	kelliot	Q15582
3,3'-Dichlorobenzidine	BRL	µg/L	11	2.8	1	8270C	06/16/06 0:33	kelliot	Q15582
3,3'-Dimethylbenzidine	BRL	µg/L	10	5.0	1	8270C	06/16/06 0:33	kelliot	Q15582
3-Methylcholanthrene	BRL	µg/L	10	5.0	1	8270C	06/16/06 0:33	kelliot	Q15582
3-Nitroaniline	BRL	µg/L	11	2.0	1	8270C	06/16/06 0:33	kelliot	Q15582
4,6-Dinitro-2-methylphenol	BRL	µg/L	11	1.3	1	8270C	06/16/06 0:33	kelliot	Q15582

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Laboratory Report

06/27/06

Weston Solutions
Attn: Tara Rowland
4917 Waters Edge
Suite 235
Raleigh, NC 27606

Project Name: Durham County Landfill
Project ID: Assessment Monitoring
Sample Matrix: Water

Client Sample ID: MW-3
Prism Sample ID: 152771
COC Group: G0606188
Time Collected: 06/06/06 10:30
Time Submitted: 06/07/06 16:30

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
4-Aminobiphenyl	BRL	µg/L	10	5.0	1	8270C	06/16/06 0:33	kelliot	Q15582
4-Bromophenylphenylether	BRL	µg/L	11	1.7	1	8270C	06/16/06 0:33	kelliot	Q15582
4-Chloro-3-methylphenol	BRL	µg/L	11	2.0	1	8270C	06/16/06 0:33	kelliot	Q15582
4-Chloroaniline	BRL	µg/L	11	2.8	1	8270C	06/16/06 0:33	kelliot	Q15582
4-Chlorophenylphenylether	BRL	µg/L	11	2.1	1	8270C	06/16/06 0:33	kelliot	Q15582
4-Nitroaniline	BRL	µg/L	11	2.0	1	8270C	06/16/06 0:33	kelliot	Q15582
4-Nitrophenol	BRL	µg/L	11	0.61	1	8270C	06/16/06 0:33	kelliot	Q15582
5-Nitro-o-toluidine	BRL	µg/L	10	5.0	1	8270C	06/16/06 0:33	kelliot	Q15582
7,12-Dimethylbenz(a)anthracen	BRL	µg/L	10	5.0	1	8270C	06/16/06 0:33	kelliot	Q15582
Acenaphthene	BRL	µg/L	11	2.4	1	8270C	06/16/06 0:33	kelliot	Q15582
Acenaphthylene	BRL	µg/L	11	2.2	1	8270C	06/16/06 0:33	kelliot	Q15582
Acetophenone	BRL	µg/L	10	5.0	1	8270C	06/16/06 0:33	kelliot	Q15582
Anthracene	BRL	µg/L	11	0.86	1	8270C	06/16/06 0:33	kelliot	Q15582
Benzo(a)anthracene	BRL	µg/L	11	1.3	1	8270C	06/16/06 0:33	kelliot	Q15582
Benzo(a)pyrene	BRL	µg/L	11	1.0	1	8270C	06/16/06 0:33	kelliot	Q15582
Benzo(b)fluoranthene	BRL	µg/L	11	1.2	1	8270C	06/16/06 0:33	kelliot	Q15582
Benzo(g,h,i)perylene	BRL	µg/L	11	1.4	1	8270C	06/16/06 0:33	kelliot	Q15582
Benzo(k)fluoranthene	BRL	µg/L	11	1.2	1	8270C	06/16/06 0:33	kelliot	Q15582
Benzyl alcohol	BRL	µg/L	11	2.0	1	8270C	06/16/06 0:33	kelliot	Q15582
Bis(2-chloroethoxy)methane	BRL	µg/L	11	2.6	1	8270C	06/16/06 0:33	kelliot	Q15582
Bis(2-chloroethyl)ether	BRL	µg/L	11	3.1	1	8270C	06/16/06 0:33	kelliot	Q15582
Bis(2-chloroisopropyl)ether	BRL	µg/L	11	3.1	1	8270C	06/16/06 0:33	kelliot	Q15582
Bis(2-ethylhexyl)phthalate	BRL	µg/L	11	1.3	1	8270C	06/16/06 0:33	kelliot	Q15582
Butylbenzylphthalate	BRL	µg/L	11	0.83	1	8270C	06/16/06 0:33	kelliot	Q15582
Chlorobenzilate	BRL	µg/L	10	5.0	1	8270C	06/16/06 0:33	kelliot	Q15582
Chrysene	BRL	µg/L	11	1.1	1	8270C	06/16/06 0:33	kelliot	Q15582
Di-n-butylphthalate	BRL	µg/L	11	0.96	1	8270C	06/16/06 0:33	kelliot	Q15582
Di-n-octylphthalate	BRL	µg/L	11	2.2	1	8270C	06/16/06 0:33	kelliot	Q15582

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NC Certification No. 402
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NC Drinking Water Cert. No. 37735

Full Service Analytical & Environmental Solutions

Laboratory Report

06/27/06

Weston Solutions
Attn: Tara Rowland
4917 Waters Edge
Suite 235
Raleigh, NC 27606

Project Name: Durham County Landfill
Project ID: Assessment Monitoring
Sample Matrix: Water

Client Sample ID: MW-3
Prism Sample ID: 152771
COC Group: G0606188
Time Collected: 06/06/06 10:30
Time Submitted: 06/07/06 16:30

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Diallate	BRL	µg/L	10	5.0	1	8270C	06/16/06 0:33	kelliot	Q15582
Dibenzo(a,h)anthracene	BRL	µg/L	11	1.7	1	8270C	06/16/06 0:33	kelliot	Q15582
Dibenzofuran	BRL	µg/L	11	2.4	1	8270C	06/16/06 0:33	kelliot	Q15582
Diethylphthalate	BRL	µg/L	11	1.7	1	8270C	06/16/06 0:33	kelliot	Q15582
Dimethoate	BRL	µg/L	10	5.0	1	8270C	06/16/06 0:33	kelliot	Q15582
Dimethylphthalate	BRL	µg/L	11	2.3	1	8270C	06/16/06 0:33	kelliot	Q15582
Dinoseb	BRL	µg/L	10	5.0	1	8270C	06/16/06 0:33	kelliot	Q15582
Diphenylamine	BRL	µg/L	10	5.0	1	8270C	06/16/06 0:33	kelliot	Q15582
Disulfoton	BRL	µg/L	10	5.0	1	8270C	06/16/06 0:33	kelliot	Q15582
Ethylmethane sulfonate	BRL	µg/L	10	5.0	1	8270C	06/16/06 0:33	kelliot	Q15582
Famphur	BRL	µg/L	10	5.0	1	8270C	06/16/06 0:33	kelliot	Q15582
Fluoranthene	BRL	µg/L	11	0.69	1	8270C	06/16/06 0:33	kelliot	Q15582
Fluorene	BRL	µg/L	11	2.7	1	8270C	06/16/06 0:33	kelliot	Q15582
Hexachlorobenzene	BRL	µg/L	11	1.2	1	8270C	06/16/06 0:33	kelliot	Q15582
Hexachlorobutadiene	BRL	µg/L	11	2.1	1	8270C	06/16/06 0:33	kelliot	Q15582
Hexachlorocyclopentadiene	BRL	µg/L	11	2.7	1	8270C	06/16/06 0:33	kelliot	Q15582
Hexachloroethane	BRL	µg/L	11	2.3	1	8270C	06/16/06 0:33	kelliot	Q15582
Hexachloropropene	BRL	µg/L	10	5.0	1	8270C	06/16/06 0:33	kelliot	Q15582
Indeno(1,2,3-cd)pyrene	BRL	µg/L	11	2.0	1	8270C	06/16/06 0:33	kelliot	Q15582
Isodrin	BRL	µg/L	10	5.0	1	8270C	06/16/06 0:33	kelliot	Q15582
Isophorone	BRL	µg/L	11	3.3	1	8270C	06/16/06 0:33	kelliot	Q15582
Isosafrole	BRL	µg/L	10	5.0	1	8270C	06/16/06 0:33	kelliot	Q15582
Kepone	BRL	µg/L	10	5.0	1	8270C	06/16/06 0:33	kelliot	Q15582
Methapyrilene	BRL	µg/L	10	5.0	1	8270C	06/16/06 0:33	kelliot	Q15582
Methyl parathion	BRL	µg/L	11	5.6	1	8270C	06/16/06 0:33	kelliot	Q15582
Methylmethane sulfonate	BRL	µg/L	10	5.0	1	8270C	06/16/06 0:33	kelliot	Q15582
N-Nitrosodi-n-propylamine	BRL	µg/L	11	3.0	1	8270C	06/16/06 0:33	kelliot	Q15582
N-Nitrosodibutylamine	BRL	µg/L	10	5.0	1	8270C	06/16/06 0:33	kelliot	Q15582

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Full Service Analytical & Environmental Solutions

Laboratory Report

06/27/06

Weston Solutions
Attn: Tara Rowland
4917 Waters Edge
Suite 235
Raleigh, NC 27606

Project Name: Durham County Landfill
Project ID: Assessment Monitoring
Sample Matrix: Water

Client Sample ID: MW-3
Prism Sample ID: 152771
COC Group: G0606188
Time Collected: 06/06/06 10:30
Time Submitted: 06/07/06 16:30

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
N-Nitrosodiethylamine	**BRL**	µg/L	10	5.0	1	8270C	06/16/06 0:33	kelliot	Q15582
N-Nitrosodimethylamine	**BRL**	µg/L	11	1.1	1	8270C	06/16/06 0:33	kelliot	Q15582
N-Nitrosodimethylethylamine	**BRL**	µg/L	10	5.0	1	8270C	06/16/06 0:33	kelliot	Q15582
N-Nitrosodiphenylamine	**BRL**	µg/L	11	1.7	1	8270C	06/16/06 0:33	kelliot	Q15582
n-Nitrosopiperidine	**BRL**	µg/L	10	5.0	1	8270C	06/16/06 0:33	kelliot	Q15582
N-Nitrosopyrrolidine	**BRL**	µg/L	10	5.0	1	8270C	06/16/06 0:33	kelliot	Q15582
Naphthalene	**BRL**	µg/L	11	2.1	1	8270C	06/16/06 0:33	kelliot	Q15582
Nitrobenzene	**BRL**	µg/L	11	2.7	1	8270C	06/16/06 0:33	kelliot	Q15582
o,o,o-Triethylphosphorthioate	**BRL**	µg/L	10	5.0	1	8270C	06/16/06 0:33	kelliot	Q15582
o-Toluidine	**BRL**	µg/L	10	5.0	1	8270C	06/16/06 0:33	kelliot	Q15582
p-Dimethylaminoazobenzene	**BRL**	µg/L	10	5.0	1	8270C	06/16/06 0:33	kelliot	Q15582
Pentachlorobenzene	**BRL**	µg/L	10	5.0	1	8270C	06/16/06 0:33	kelliot	Q15582
Pentachloronitrobenzene	**BRL**	µg/L	10	5.0	1	8270C	06/16/06 0:33	kelliot	Q15582
Pentachlorophenol	**BRL**	µg/L	11	0.72	1	8270C	06/16/06 0:33	kelliot	Q15582
Phenacetin	**BRL**	µg/L	10	5.0	1	8270C	06/16/06 0:33	kelliot	Q15582
Phenanthrene	**BRL**	µg/L	11	0.64	1	8270C	06/16/06 0:33	kelliot	Q15582
Phenol	**BRL**	µg/L	11	4.2	1	8270C	06/16/06 0:33	kelliot	Q15582
Phorate	**BRL**	µg/L	10	5.0	1	8270C	06/16/06 0:33	kelliot	Q15582
Pronamide	**BRL**	µg/L	10	5.0	1	8270C	06/16/06 0:33	kelliot	Q15582
Pyrene	**BRL**	µg/L	11	1.2	1	8270C	06/16/06 0:33	kelliot	Q15582
Safrole	**BRL**	µg/L	10	5.0	1	8270C	06/16/06 0:33	kelliot	Q15582
Thionazin	**BRL**	µg/L	10	5.0	1	8270C	06/16/06 0:33	kelliot	Q15582

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06/27/06

Weston Solutions
Attn: Tara Rowland
4917 Waters Edge
Suite 235
Raleigh, NC 27606

Project Name: Durham County Landfill
Project ID: Assessment Monitoring
Sample Matrix: Water

Client Sample ID: MW-3
Prism Sample ID: 152771
COC Group: G0606188
Time Collected: 06/06/06 10:30
Time Submitted: 06/07/06 16:30

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Sample Preparation:			900 mL /		1 mL	3510C	06/10/06 9:00	smanivanh	P15587

Surrogate	% Recovery	Control Limits
Terphenyl-d14	117	41 - 136
Phenol-d5	25	10 - 78
Nitrobenzene-d5	98	13 - 107
2-Fluorophenol	38	10 - 75
2-Fluorobiphenyl	102	27 - 107
2,4,6-Tribromophenol	109	38 - 117

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Cyanide by Colorimetric Method									
Cyanide, Total	[redacted]	mg/L	0.0020	0.0016	1	9014	06/16/06 11:16	cmatthews	Q15692
Sample Preparation:			500 mL /		500 mL	9010	06/14/06 15:25	cmatthews	P15642
Sulfide by Iodometric Method									
Sulfide	**BRL**	mg/L	2.0	0.094	1	376.1	06/12/06 8:00	cmatthews	Q15504

Sample Comment(s):

BRL = Below Reporting Limit
J = Estimated value between the Reporting Limit and the MDL
The results in this report relate only to the samples submitted for analysis and meet state certification requirements other than NELAC certification except for those instances indicated in the case narrative and/or test comments.

Angela D. Overcash, V.P. Laboratory Services

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Laboratory Report

6/27/06

Weston Solutions
Attn: Tara Rowland
4917 Waters Edge
Suite 235
Raleigh, NC 27606

Project Name: Durham County Landfill
Project ID: Assessment Monitoring
Sample Matrix: Water

Client Sample ID: MW-6R
Prism Sample ID: 152772
COC Group: G0606188
Time Collected: 06/06/06 11:20
Time Submitted: 06/07/06 16:30

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Organochlorine Pesticides and PCBs by GC/ECD									
4,4'-DDD	BRL	µg/L	0.050	0.027	1	8081A	06/15/06 20:39	jvogel	Q15726
4,4'-DDE	BRL	µg/L	0.050	0.012	1	8081A	06/15/06 20:39	jvogel	Q15726
4,4'-DDT	BRL	µg/L	0.050	0.036	1	8081A	06/15/06 20:39	jvogel	Q15726
4,4'-Methoxychlor	BRL	µg/L	0.050	0.045	1	8081A	06/15/06 20:39	jvogel	Q15726
a-BHC	BRL	µg/L	0.050	0.010	1	8081A	06/15/06 20:39	jvogel	Q15726
Aldrin	BRL	µg/L	0.050	0.018	1	8081A	06/15/06 20:39	jvogel	Q15726
b-BHC	BRL	µg/L	0.050	0.021	1	8081A	06/15/06 20:39	jvogel	Q15726
Chlordane	BRL	µg/L	0.50	0.10	1	8081A	06/15/06 20:39	jvogel	Q15726
d-BHC	BRL	µg/L	0.050	0.015	1	8081A	06/15/06 20:39	jvogel	Q15726
Dieldrin	BRL	µg/L	0.050	0.013	1	8081A	06/15/06 20:39	jvogel	Q15726
Endosulfan I	BRL	µg/L	0.050	0.010	1	8081A	06/15/06 20:39	jvogel	Q15726
Endosulfan II	BRL	µg/L	0.050	0.019	1	8081A	06/15/06 20:39	jvogel	Q15726
Endosulfan Sulfate	BRL	µg/L	0.050	0.024	1	8081A	06/15/06 20:39	jvogel	Q15726
Endrin	BRL	µg/L	0.050	0.027	1	8081A	06/15/06 20:39	jvogel	Q15726
Endrin Aldehyde	BRL	µg/L	0.050	0.014	1	8081A	06/15/06 20:39	jvogel	Q15726
g-BHC	BRL	µg/L	0.050	0.021	1	8081A	06/15/06 20:39	jvogel	Q15726
Heptachlor	BRL	µg/L	0.050	0.022	1	8081A	06/15/06 20:39	jvogel	Q15726
Heptachlor Epoxide	BRL	µg/L	0.050	0.018	1	8081A	06/15/06 20:39	jvogel	Q15726
Toxaphene	BRL	µg/L	0.50	0.23	1	8081A	06/15/06 20:39	jvogel	Q15726
Sample Preparation:			980 mL / 10 mL			3510C	06/12/06 9:00	smanivanh	P15597

Surrogate	% Recovery	Control Limits
Tetrachloro-m-xylene (TCMX)	109	40 - 134
Decachlorobiphenyl (DCB)	80	13 - 186

Polychlorinated Biphenyls (PCBs) by GC-ECD									
PCB-1016	BRL	µg/L	0.50	0.17	1	8082	06/15/06 20:39	jvogel	Q15728
PCB-1221	BRL	µg/L	1.0	0.33	1	8082	06/15/06 20:39	jvogel	Q15728

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SC Certification No. 99012
NC Drinking Water Cert. No. 37735

Laboratory Report

6/27/06

Weston Solutions
Attn: Tara Rowland
4917 Waters Edge
Suite 235
Raleigh, NC 27606

Project Name: Durham County Landfill
Project ID: Assessment Monitoring
Sample Matrix: Water

Client Sample ID: MW-6R
Prism Sample ID: 152772
COC Group: G0606188
Time Collected: 06/06/06 11:20
Time Submitted: 06/07/06 16:30

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
PCB-1232	BRL	µg/L	0.50	0.25	1	8082	06/15/06 20:39	jvogel	Q15728
PCB-1242	BRL	µg/L	1.0	0.36	1	8082	06/15/06 20:39	jvogel	Q15728
PCB-1248	BRL	µg/L	0.50	0.25	1	8082	06/15/06 20:39	jvogel	Q15728
PCB-1254	BRL	µg/L	0.50	0.25	1	8082	06/15/06 20:39	jvogel	Q15728
PCB-1260	BRL	µg/L	0.50	0.26	1	8082	06/15/06 20:39	jvogel	Q15728
Sample Preparation:			980 mL / 10 mL			3510C	06/12/06 9:00	smanivanh	P15598

Surrogate	% Recovery	Control Limits
Tetrachloro-m-xylene (TCMX)	139	30 - 161
Decachlorobiphenyl (DCB)	81	32 - 178

Volatile Organic Compounds by GC/MS

1,1,1,2-Tetrachloroethane	BRL	µg/L	1.0	0.40	1	8260B	06/15/06 18:22	kcampigotto	Q15627
1,1,1-Trichloroethane	BRL	µg/L	1.0	0.45	1	8260B	06/15/06 18:22	kcampigotto	Q15627
1,1,2,2-Tetrachloroethane	BRL	µg/L	1.0	0.30	1	8260B	06/15/06 18:22	kcampigotto	Q15627
1,1,2-Trichloroethane	BRL	µg/L	1.0	0.42	1	8260B	06/15/06 18:22	kcampigotto	Q15627
1,1-Dichloroethane	[illegible]	µg/L	1.0	0.38	1	8260B	06/15/06 18:22	kcampigotto	Q15627
1,1-Dichloroethene	BRL	µg/L	1.0	0.43	1	8260B	06/15/06 18:22	kcampigotto	Q15627
1,1-Dichloropropene	BRL	µg/L	1.0	0.39	1	8260B	06/15/06 18:22	kcampigotto	Q15627
1,2,3-Trichlorobenzene	BRL	µg/L	2.0	0.57	1	8260B	06/15/06 18:22	kcampigotto	Q15627
1,2,3-Trichloropropane	BRL	µg/L	1.0	0.50	1	8260B	06/15/06 18:22	kcampigotto	Q15627
1,2,4-Trichlorobenzene	BRL	µg/L	1.0	0.42	1	8260B	06/15/06 18:22	kcampigotto	Q15627
1,2-Dibromo-3-chloropropane	BRL	µg/L	2.0	0.56	1	8260B	06/15/06 18:22	kcampigotto	Q15627
1,2-Dibromoethane (EDB)	BRL	µg/L	1.0	0.46	1	8260B	06/15/06 18:22	kcampigotto	Q15627
1,2-Dichlorobenzene	BRL	µg/L	1.0	0.27	1	8260B	06/15/06 18:22	kcampigotto	Q15627
1,2-Dichloroethane	BRL	µg/L	1.0	0.36	1	8260B	06/15/06 18:22	kcampigotto	Q15627
1,2-Dichloropropane	[illegible]	µg/L	1.0	0.26	1	8260B	06/15/06 18:22	kcampigotto	Q15627
1,3-Dichlorobenzene	BRL	µg/L	1.0	0.22	1	8260B	06/15/06 18:22	kcampigotto	Q15627

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6/27/06

Weston Solutions
Attn: Tara Rowland
4917 Waters Edge
Suite 235
Raleigh, NC 27606

Project Name: Durham County Landfill
Project ID: Assessment Monitoring
Sample Matrix: Water

Client Sample ID: MW-6R
Prism Sample ID: 152772
COC Group: G0606188
Time Collected: 06/06/06 11:20
Time Submitted: 06/07/06 16:30

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
1,3-Dichloropropane	BRL	µg/L	1.0	0.26	1	8260B	06/15/06 18:22	kcampigotto	Q15627
1,4-Dichlorobenzene	[illegible]	µg/L	1.0	0.32	1	8260B	06/15/06 18:22	kcampigotto	Q15627
2,2-Dichloropropane	BRL	µg/L	2.0	0.73	1	8260B	06/15/06 18:22	kcampigotto	Q15627
2-Hexanone	BRL	µg/L	5.0	0.38	1	8260B	06/15/06 18:22	kcampigotto	Q15627
4-Methyl-2-pentanone (MIBK)	BRL	µg/L	5.0	0.32	1	8260B	06/15/06 18:22	kcampigotto	Q15627
Acetone	BRL	µg/L	10	2.5	1	8260B	06/15/06 18:22	kcampigotto	Q15627
Acetonitrile	BRL	µg/L	20	5.0	1	8260B	06/15/06 18:22	kcampigotto	Q15627
Acrolein	BRL	µg/L	100	4.5	1	8260B	06/15/06 18:22	kcampigotto	Q15627
Acrylonitrile	BRL	µg/L	100	0.65	1	8260B	06/15/06 18:22	kcampigotto	Q15627
Allyl chloride	BRL	µg/L	10	5.0	1	8260B	06/15/06 18:22	kcampigotto	Q15627
Benzene	[illegible]	µg/L	0.50	0.14	1	8260B	06/15/06 18:22	kcampigotto	Q15627
Bromochloromethane	BRL	µg/L	1.0	0.31	1	8260B	06/15/06 18:22	kcampigotto	Q15627
Bromodichloromethane	BRL	µg/L	1.0	0.31	1	8260B	06/15/06 18:22	kcampigotto	Q15627
Bromoform	BRL	µg/L	1.0	0.39	1	8260B	06/15/06 18:22	kcampigotto	Q15627
Bromomethane	BRL	µg/L	3.0	1.1	1	8260B	06/15/06 18:22	kcampigotto	Q15627
Carbon disulfide	BRL	µg/L	5.0	0.71	1	8260B	06/15/06 18:22	kcampigotto	Q15627
Carbon tetrachloride	BRL	µg/L	2.0	0.52	1	8260B	06/15/06 18:22	kcampigotto	Q15627
Chlorobenzene	[illegible]	µg/L	1.0	0.24	1	8260B	06/15/06 18:22	kcampigotto	Q15627
Chlorodibromomethane	BRL	µg/L	1.0	0.10	1	8260B	06/15/06 18:22	kcampigotto	Q15627
Chloroethane	BRL	µg/L	5.0	1.6	1	8260B	06/15/06 18:22	kcampigotto	Q15627
Chloroform	BRL	µg/L	1.0	0.35	1	8260B	06/15/06 18:22	kcampigotto	Q15627
Chloromethane	BRL	µg/L	2.0	0.47	1	8260B	06/15/06 18:22	kcampigotto	Q15627
Chloroprene	BRL	µg/L	10	5.0	1	8260B	06/15/06 18:22	kcampigotto	Q15627
cis-1,2-Dichloroethene	[illegible]	µg/L	1.0	0.47	1	8260B	06/15/06 18:22	kcampigotto	Q15627
cis-1,3-Dichloropropene	BRL	µg/L	1.0	0.29	1	8260B	06/15/06 18:22	kcampigotto	Q15627
Dibromomethane	BRL	µg/L	1.0	0.34	1	8260B	06/15/06 18:22	kcampigotto	Q15627
Dichlorodifluoromethane	BRL	µg/L	2.0	0.26	1	8260B	06/15/06 18:22	kcampigotto	Q15627
Ethyl methacrylate	BRL	µg/L	10	5.0	1	8260B	06/15/06 18:22	kcampigotto	Q15627

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Sample Matrix: Water

Client Sample ID: MW-6R
Prism Sample ID: 152772
COC Group: G0606188
Time Collected: 06/06/06 11:20
Time Submitted: 06/07/06 16:30

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Ethylbenzene	BRL	µg/L	1.0	0.32	1	8260B	06/15/06 18:22	kcampigotto	Q15627
Isobutyl alcohol	BRL	µg/L	10	5.0	1	8260B	06/15/06 18:22	kcampigotto	Q15627
m,p-Xylenes	BRL	µg/L	2.0	0.51	1	8260B	06/15/06 18:22	kcampigotto	Q15627
Methacrylonitrile	BRL	µg/L	10	5.0	1	8260B	06/15/06 18:22	kcampigotto	Q15627
Methyl ethyl ketone (MEK)	BRL	µg/L	5.0	0.81	1	8260B	06/15/06 18:22	kcampigotto	Q15627
Methyl iodide	BRL	µg/L	5.0	2.0	1	8260B	06/15/06 18:22	kcampigotto	Q15627
Methyl methacrylate	BRL	µg/L	10	5.0	1	8260B	06/15/06 18:22	kcampigotto	Q15627
Methylene chloride	BRL	µg/L	2.0	0.61	1	8260B	06/15/06 18:22	kcampigotto	Q15627
o-Xylene	BRL	µg/L	1.0	0.24	1	8260B	06/15/06 18:22	kcampigotto	Q15627
Propionitrile	BRL	µg/L	10	5.0	1	8260B	06/15/06 18:22	kcampigotto	Q15627
Styrene	BRL	µg/L	1.0	0.22	1	8260B	06/15/06 18:22	kcampigotto	Q15627
Tetrachloroethene	[illegible]	µg/L	1.0	0.49	1	8260B	06/15/06 18:22	kcampigotto	Q15627
Toluene	BRL	µg/L	1.0	0.39	1	8260B	06/15/06 18:22	kcampigotto	Q15627
trans-1,2-Dichloroethene	[illegible]	µg/L	2.0	0.56	1	8260B	06/15/06 18:22	kcampigotto	Q15627
trans-1,3-Dichloropropene	BRL	µg/L	1.0	0.38	1	8260B	06/15/06 18:22	kcampigotto	Q15627
trans-1,4-Dichloro-2-butene	BRL	µg/L	10	5.0	1	8260B	06/15/06 18:22	kcampigotto	Q15627
Trichloroethene	[illegible]	µg/L	2.0	0.52	1	8260B	06/15/06 18:22	kcampigotto	Q15627
Trichlorofluoromethane	BRL	µg/L	2.0	0.65	1	8260B	06/15/06 18:22	kcampigotto	Q15627
Vinyl acetate	BRL	µg/L	20	10	1	8260B	06/15/06 18:22	kcampigotto	Q15627
Vinyl chloride	[illegible]	µg/L	2.0	0.60	1	8260B	06/15/06 18:22	kcampigotto	Q15627

Surrogate	% Recovery	Control Limits
Toluene-d8	99	75 - 121
Dibromofluoromethane	108	74 - 133
Bromofluorobenzene	101	69 - 139

Semi-volatile Organics by GC/MS

1,2,4,5-Tetrachlorobenzene	BRL	µg/L	10	5.0	1	8270C	06/16/06 1:27	kelliot	Q15582

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NC Certification No. 402
SC Certification No. 99012
NC Drinking Water Cert. No. 37735

Laboratory Report

6/27/06

Weston Solutions
Attn: Tara Rowland
4917 Waters Edge
Suite 235
Raleigh, NC 27606

Project Name: Durham County Landfill
Project ID: Assessment Monitoring
Sample Matrix: Water

Client Sample ID: MW-6R
Prism Sample ID: 152772
COC Group: G0606188
Time Collected: 06/06/06 11:20
Time Submitted: 06/07/06 16:30

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
1,3,5-Trinitrobenzene	BRL	µg/L	10	5.0	1	8270C	06/16/06 1:27	kelliot	Q15582
1,3-Dinitrobenzene	BRL	µg/L	10	5.0	1	8270C	06/16/06 1:27	kelliot	Q15582
1,4-Diphenylenediamine	BRL	µg/L	10	5.0	1	8270C	06/16/06 1:27	kelliot	Q15582
1,4-Napthaquinone	BRL	µg/L	10	5.0	1	8270C	06/16/06 1:27	kelliot	Q15582
1-Napthylamine	BRL	µg/L	10	5.0	1	8270C	06/16/06 1:27	kelliot	Q15582
2,3,4,6-Tetrachlorophenol	BRL	µg/L	10	5.0	1	8270C	06/16/06 1:27	kelliot	Q15582
2,4,5-Trichlorophenol	BRL	µg/L	10	2.6	1	8270C	06/16/06 1:27	kelliot	Q15582
2,4,6-Trichlorophenol	BRL	µg/L	10	2.5	1	8270C	06/16/06 1:27	kelliot	Q15582
2,4-Dichlorophenol	BRL	µg/L	10	2.4	1	8270C	06/16/06 1:27	kelliot	Q15582
2,4-Dimethylphenol	BRL	µg/L	10	2.9	1	8270C	06/16/06 1:27	kelliot	Q15582
2,4-Dinitrophenol	BRL	µg/L	10	2.2	1	8270C	06/16/06 1:27	kelliot	Q15582
2,4-Dinitrotoluene	BRL	µg/L	10	1.3	1	8270C	06/16/06 1:27	kelliot	Q15582
2,6-Dichlorophenol	BRL	µg/L	10	5.0	1	8270C	06/16/06 1:27	kelliot	Q15582
2,6-Dinitrotoluene	BRL	µg/L	10	1.3	1	8270C	06/16/06 1:27	kelliot	Q15582
2-Acetylaminofluorene	BRL	µg/L	10	5.0	1	8270C	06/16/06 1:27	kelliot	Q15582
2-Chloronaphthalene	BRL	µg/L	10	2.2	1	8270C	06/16/06 1:27	kelliot	Q15582
2-Chlorophenol	BRL	µg/L	10	2.4	1	8270C	06/16/06 1:27	kelliot	Q15582
2-Methylnaphthalene	BRL	µg/L	10	1.8	1	8270C	06/16/06 1:27	kelliot	Q15582
2-Methylphenol	BRL	µg/L	10	2.8	1	8270C	06/16/06 1:27	kelliot	Q15582
2-Napthylamine	BRL	µg/L	10	5.0	1	8270C	06/16/06 1:27	kelliot	Q15582
2-Nitroaniline	BRL	µg/L	10	2.1	1	8270C	06/16/06 1:27	kelliot	Q15582
2-Nitrophenol	BRL	µg/L	10	3.1	1	8270C	06/16/06 1:27	kelliot	Q15582
3&4-Methylphenol	BRL	µg/L	10	3.7	1	8270C	06/16/06 1:27	kelliot	Q15582
3,3'-Dichlorobenzidine	BRL	µg/L	10	2.5	1	8270C	06/16/06 1:27	kelliot	Q15582
3,3'-Dimethylbenzidine	BRL	µg/L	10	5.0	1	8270C	06/16/06 1:27	kelliot	Q15582
3-Methylcholanthrene	BRL	µg/L	10	5.0	1	8270C	06/16/06 1:27	kelliot	Q15582
3-Nitroaniline	BRL	µg/L	10	1.8	1	8270C	06/16/06 1:27	kelliot	Q15582
4,6-Dinitro-2-methylphenol	BRL	µg/L	10	1.2	1	8270C	06/16/06 1:27	kelliot	Q15582

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NC Certification No. 402
SC Certification No. 99012
NC Drinking Water Cert. No. 37735

Full Service Analytical & Environmental Solutions

Laboratory Report

6/27/06

Weston Solutions
Attn: Tara Rowland
4917 Waters Edge
Suite 235
Raleigh, NC 27606

Project Name: Durham County Landfill
Project ID: Assessment Monitoring
Sample Matrix: Water

Client Sample ID: MW-6R
Prism Sample ID: 152772
COC Group: G0606188
Time Collected: 06/06/06 11:20
Time Submitted: 06/07/06 16:30

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
4-Aminobiphenyl	BRL	µg/L	10	5.0	1	8270C	06/16/06 1:27	kelliot	Q15582
4-Bromophenylphenylether	BRL	µg/L	10	1.5	1	8270C	06/16/06 1:27	kelliot	Q15582
4-Chloro-3-methylphenol	BRL	µg/L	10	1.8	1	8270C	06/16/06 1:27	kelliot	Q15582
4-Chloroaniline	BRL	µg/L	10	2.5	1	8270C	06/16/06 1:27	kelliot	Q15582
4-Chlorophenylphenylether	BRL	µg/L	10	1.9	1	8270C	06/16/06 1:27	kelliot	Q15582
4-Nitroaniline	BRL	µg/L	10	1.8	1	8270C	06/16/06 1:27	kelliot	Q15582
4-Nitrophenol	BRL	µg/L	10	0.55	1	8270C	06/16/06 1:27	kelliot	Q15582
5-Nitro-o-toluidine	BRL	µg/L	10	5.0	1	8270C	06/16/06 1:27	kelliot	Q15582
7,12-Dimethylbenz(a)anthracene	BRL	µg/L	10	5.0	1	8270C	06/16/06 1:27	kelliot	Q15582
Acenaphthene	BRL	µg/L	10	2.2	1	8270C	06/16/06 1:27	kelliot	Q15582
Acenaphthylene	BRL	µg/L	10	2.0	1	8270C	06/16/06 1:27	kelliot	Q15582
Acetophenone	BRL	µg/L	10	5.0	1	8270C	06/16/06 1:27	kelliot	Q15582
Anthracene	BRL	µg/L	10	0.77	1	8270C	06/16/06 1:27	kelliot	Q15582
Benzo(a)anthracene	BRL	µg/L	10	1.2	1	8270C	06/16/06 1:27	kelliot	Q15582
Benzo(a)pyrene	BRL	µg/L	10	0.92	1	8270C	06/16/06 1:27	kelliot	Q15582
Benzo(b)fluoranthene	BRL	µg/L	10	1.1	1	8270C	06/16/06 1:27	kelliot	Q15582
Benzo(g,h,i)perylene	BRL	µg/L	10	1.3	1	8270C	06/16/06 1:27	kelliot	Q15582
Benzo(k)fluoranthene	BRL	µg/L	10	1.1	1	8270C	06/16/06 1:27	kelliot	Q15582
Benzyl alcohol	BRL	µg/L	10	1.8	1	8270C	06/16/06 1:27	kelliot	Q15582
Bis(2-chloroethoxy)methane	BRL	µg/L	10	2.3	1	8270C	06/16/06 1:27	kelliot	Q15582
Bis(2-chloroethyl)ether	BRL	µg/L	10	2.8	1	8270C	06/16/06 1:27	kelliot	Q15582
Bis(2-chloroisopropyl)ether	BRL	µg/L	10	2.8	1	8270C	06/16/06 1:27	kelliot	Q15582
Bis(2-ethylhexyl)phthalate	BRL	µg/L	10	1.2	1	8270C	06/16/06 1:27	kelliot	Q15582
Butylbenzylphthalate	BRL	µg/L	10	0.75	1	8270C	06/16/06 1:27	kelliot	Q15582
Chlorobenzilate	BRL	µg/L	10	5.0	1	8270C	06/16/06 1:27	kelliot	Q15582
Chrysene	BRL	µg/L	10	0.95	1	8270C	06/16/06 1:27	kelliot	Q15582
Di-n-butylphthalate	BRL	µg/L	10	0.86	1	8270C	06/16/06 1:27	kelliot	Q15582
Di-n-octylphthalate	BRL	µg/L	10	2.0	1	8270C	06/16/06 1:27	kelliot	Q15582

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Laboratory Report

6/27/06

Weston Solutions
Attn: Tara Rowland
4917 Waters Edge
Suite 235
Raleigh, NC 27606

Project Name: Durham County Landfill
Project ID: Assessment Monitoring
Sample Matrix: Water

Client Sample ID: MW-6R
Prism Sample ID: 152772
COC Group: G0606188
Time Collected: 06/06/06 11:20
Time Submitted: 06/07/06 16:30

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Diallate	BRL	µg/L	10	5.0	1	8270C	06/16/06 1:27	kelliot	Q15582
Dibenzo(a,h)anthracene	BRL	µg/L	10	1.5	1	8270C	06/16/06 1:27	kelliot	Q15582
Dibenzofuran	BRL	µg/L	10	2.2	1	8270C	06/16/06 1:27	kelliot	Q15582
Diethylphthalate	BRL	µg/L	10	1.5	1	8270C	06/16/06 1:27	kelliot	Q15582
Dimethoate	BRL	µg/L	10	5.0	1	8270C	06/16/06 1:27	kelliot	Q15582
Dimethylphthalate	BRL	µg/L	10	2.1	1	8270C	06/16/06 1:27	kelliot	Q15582
Dinoseb	BRL	µg/L	10	5.0	1	8270C	06/16/06 1:27	kelliot	Q15582
Diphenylamine	BRL	µg/L	10	5.0	1	8270C	06/16/06 1:27	kelliot	Q15582
Disulfoton	BRL	µg/L	10	5.0	1	8270C	06/16/06 1:27	kelliot	Q15582
Ethylmethane sulfonate	BRL	µg/L	10	5.0	1	8270C	06/16/06 1:27	kelliot	Q15582
Famphur	BRL	µg/L	10	5.0	1	8270C	06/16/06 1:27	kelliot	Q15582
Fluoranthene	BRL	µg/L	10	0.62	1	8270C	06/16/06 1:27	kelliot	Q15582
Fluorene	BRL	µg/L	10	2.4	1	8270C	06/16/06 1:27	kelliot	Q15582
Hexachlorobenzene	BRL	µg/L	10	1.1	1	8270C	06/16/06 1:27	kelliot	Q15582
Hexachlorobutadiene	BRL	µg/L	10	1.9	1	8270C	06/16/06 1:27	kelliot	Q15582
Hexachlorocyclopentadiene	BRL	µg/L	10	2.4	1	8270C	06/16/06 1:27	kelliot	Q15582
Hexachloroethane	BRL	µg/L	10	2.1	1	8270C	06/16/06 1:27	kelliot	Q15582
Hexachloropropene	BRL	µg/L	10	5.0	1	8270C	06/16/06 1:27	kelliot	Q15582
Indeno(1,2,3-cd)pyrene	BRL	µg/L	10	1.8	1	8270C	06/16/06 1:27	kelliot	Q15582
Isodrin	BRL	µg/L	10	5.0	1	8270C	06/16/06 1:27	kelliot	Q15582
Isophorone	BRL	µg/L	10	3.0	1	8270C	06/16/06 1:27	kelliot	Q15582
Isosafrole	BRL	µg/L	10	5.0	1	8270C	06/16/06 1:27	kelliot	Q15582
Kepone	BRL	µg/L	10	5.0	1	8270C	06/16/06 1:27	kelliot	Q15582
Methapyrilene	BRL	µg/L	10	5.0	1	8270C	06/16/06 1:27	kelliot	Q15582
Methyl parathion	BRL	µg/L	10	5.0	1	8270C	06/16/06 1:27	kelliot	Q15582
Methylmethane sulfonate	BRL	µg/L	10	5.0	1	8270C	06/16/06 1:27	kelliot	Q15582
N-Nitrosodi-n-propylamine	BRL	µg/L	10	2.7	1	8270C	06/16/06 1:27	kelliot	Q15582
N-Nitrosodibutylamine	BRL	µg/L	10	5.0	1	8270C	06/16/06 1:27	kelliot	Q15582

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Full Service Analytical & Environmental Solutions

Laboratory Report

6/27/06

Weston Solutions
Attn: Tara Rowland
4917 Waters Edge
Suite 235
Raleigh, NC 27606

Project Name: Durham County Landfill
Project ID: Assessment Monitoring
Sample Matrix: Water

Client Sample ID: MW-6R
Prism Sample ID: 152772
COC Group: G0606188
Time Collected: 06/06/06 11:20
Time Submitted: 06/07/06 16:30

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
N-Nitrosodiethylamine	BRL	µg/L	10	5.0	1	8270C	06/16/06 1:27	kelliot	Q15582
N-Nitrosodimethylamine	BRL	µg/L	10	1.0	1	8270C	06/16/06 1:27	kelliot	Q15582
N-Nitrosodimethylethylamine	BRL	µg/L	10	5.0	1	8270C	06/16/06 1:27	kelliot	Q15582
N-Nitrosodiphenylamine	BRL	µg/L	10	1.5	1	8270C	06/16/06 1:27	kelliot	Q15582
n-Nitrosopiperidine	BRL	µg/L	10	5.0	1	8270C	06/16/06 1:27	kelliot	Q15582
N-Nitrosopyrrolidine	BRL	µg/L	10	5.0	1	8270C	06/16/06 1:27	kelliot	Q15582
Naphthalene	BRL	µg/L	10	1.9	1	8270C	06/16/06 1:27	kelliot	Q15582
Nitrobenzene	BRL	µg/L	10	2.4	1	8270C	06/16/06 1:27	kelliot	Q15582
o,o,o-Triethylphosphorthioate	BRL	µg/L	10	5.0	1	8270C	06/16/06 1:27	kelliot	Q15582
o-Toluidine	BRL	µg/L	10	5.0	1	8270C	06/16/06 1:27	kelliot	Q15582
p-Dimethylaminoazobenzene	BRL	µg/L	10	5.0	1	8270C	06/16/06 1:27	kelliot	Q15582
Pentachlorobenzene	BRL	µg/L	10	5.0	1	8270C	06/16/06 1:27	kelliot	Q15582
Pentachloronitrobenzene	BRL	µg/L	10	5.0	1	8270C	06/16/06 1:27	kelliot	Q15582
Pentachlorophenol	BRL	µg/L	10	0.65	1	8270C	06/16/06 1:27	kelliot	Q15582
Phenacetin	BRL	µg/L	10	5.0	1	8270C	06/16/06 1:27	kelliot	Q15582
Phenanthrene	BRL	µg/L	10	0.58	1	8270C	06/16/06 1:27	kelliot	Q15582
Phenol	BRL	µg/L	10	3.8	1	8270C	06/16/06 1:27	kelliot	Q15582
Phorate	BRL	µg/L	10	5.0	1	8270C	06/16/06 1:27	kelliot	Q15582
Pronamide	BRL	µg/L	10	5.0	1	8270C	06/16/06 1:27	kelliot	Q15582
Pyrene	BRL	µg/L	10	1.1	1	8270C	06/16/06 1:27	kelliot	Q15582
Safrole	BRL	µg/L	10	5.0	1	8270C	06/16/06 1:27	kelliot	Q15582
Thionazin	BRL	µg/L	10	5.0	1	8270C	06/16/06 1:27	kelliot	Q15582

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Full Service Analytical & Environmental Solutions

Laboratory Report

6/27/06

Weston Solutions
Attn: Tara Rowland
4917 Waters Edge
Suite 235
Raleigh, NC 27606

Project Name: Durham County Landfill
Project ID: Assessment Monitoring
Sample Matrix: Water

Client Sample ID: MW-6R
Prism Sample ID: 152772
COC Group: G0606188
Time Collected: 06/06/06 11:20
Time Submitted: 06/07/06 16:30

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Sample Preparation:			1000 mL /		1 mL	3510C	06/10/06 9:00	smanivanh	P15587

Surrogate	% Recovery	Control Limits
Terphenyl-d14	110	41 - 136
Phenol-d5	16	10 - 78
Nitrobenzene-d5	92	13 - 107
2-Fluorophenol	31	10 - 75
2-Fluorobiphenyl	95	27 - 107
2,4,6-Tribromophenol	110	38 - 117

Cyanide by Colorimetric Method									
Cyanide, Total	[redacted]	mg/L	0.0020	0.0016	1	9014	06/16/06 11:16	cmatthews	Q15692
Sample Preparation:			500 mL /		500 mL	9010	06/15/06 12:00	cmatthews	P15643
Sulfide by Iodometric Method									
Sulfide	BRL	mg/L	2.0	0.094	1	376.1	06/12/06 8:00	cmatthews	Q15504

Sample Comment(s):

BRL = Below Reporting Limit

J = Estimated value between the Reporting Limit and the MDL

The results in this report relate only to the samples submitted for analysis and meet state certification requirements other than NELAC certification except for those instances indicated in the case narrative and/or test comments.

Angela D. Overcash, V.P. Laboratory Services

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Laboratory Report

6/27/06

Weston Solutions
Attn: Tara Rowland
4917 Waters Edge
Suite 235
Raleigh, NC 27606

Project Name: Durham County Landfill
Project ID: Assessment Monitoring
Sample Matrix: Water

Client Sample ID: MW-2
Prism Sample ID: 152773
COC Group: G0606188
Time Collected: 06/06/06 12:00
Time Submitted: 06/07/06 16:30

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Organochlorine Pesticides and PCBs by GC/ECD									
4,4'-DDD	BRL	µg/L	0.050	0.027	1	8081A	06/15/06 21:21	jvogel	Q15726
4,4'-DDE	BRL	µg/L	0.050	0.012	1	8081A	06/15/06 21:21	jvogel	Q15726
4,4'-DDT	BRL	µg/L	0.050	0.036	1	8081A	06/15/06 21:21	jvogel	Q15726
4,4'-Methoxychlor	BRL	µg/L	0.050	0.045	1	8081A	06/15/06 21:21	jvogel	Q15726
a-BHC	BRL	µg/L	0.050	0.010	1	8081A	06/15/06 21:21	jvogel	Q15726
Aldrin	BRL	µg/L	0.050	0.018	1	8081A	06/15/06 21:21	jvogel	Q15726
b-BHC	BRL	µg/L	0.050	0.021	1	8081A	06/15/06 21:21	jvogel	Q15726
Chlordane	BRL	µg/L	0.50	0.10	1	8081A	06/15/06 21:21	jvogel	Q15726
d-BHC	BRL	µg/L	0.050	0.015	1	8081A	06/15/06 21:21	jvogel	Q15726
Dieldrin	BRL	µg/L	0.050	0.013	1	8081A	06/15/06 21:21	jvogel	Q15726
Endosulfan I	BRL	µg/L	0.050	0.010	1	8081A	06/15/06 21:21	jvogel	Q15726
Endosulfan II	BRL	µg/L	0.050	0.019	1	8081A	06/15/06 21:21	jvogel	Q15726
Endosulfan Sulfate	BRL	µg/L	0.050	0.024	1	8081A	06/15/06 21:21	jvogel	Q15726
Endrin	BRL	µg/L	0.050	0.027	1	8081A	06/15/06 21:21	jvogel	Q15726
Endrin Aldehyde	BRL	µg/L	0.050	0.014	1	8081A	06/15/06 21:21	jvogel	Q15726
g-BHC	BRL	µg/L	0.050	0.021	1	8081A	06/15/06 21:21	jvogel	Q15726
Heptachlor	BRL	µg/L	0.050	0.022	1	8081A	06/15/06 21:21	jvogel	Q15726
Heptachlor Epoxide	BRL	µg/L	0.050	0.018	1	8081A	06/15/06 21:21	jvogel	Q15726
Toxaphene	BRL	µg/L	0.50	0.23	1	8081A	06/15/06 21:21	jvogel	Q15726
Sample Preparation:			980 mL / 10 mL			3510C	06/12/06 9:00	smanivanh	P15597

Surrogate	% Recovery	Control Limits
Tetrachloro-m-xylene (TCMX)	108	40 - 134
Decachlorobiphenyl (DCB)	90	13 - 186

Polychlorinated Biphenyls (PCBs) by GC-ECD									
PCB-1016	BRL	µg/L	0.50	0.17	1	8082	06/15/06 21:21	jvogel	Q15728
PCB-1221	BRL	µg/L	1.0	0.33	1	8082	06/15/06 21:21	jvogel	Q15728

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Laboratory Report

6/27/06

Weston Solutions
Attn: Tara Rowland
4917 Waters Edge
Suite 235
Raleigh, NC 27606

Project Name: Durham County Landfill
Project ID: Assessment Monitoring
Sample Matrix: Water

Client Sample ID: MW-2
Prism Sample ID: 152773
COC Group: G0606188
Time Collected: 06/06/06 12:00
Time Submitted: 06/07/06 16:30

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
PCB-1232	BRL	µg/L	0.50	0.25	1	8082	06/15/06 21:21	jvogel	Q15728
PCB-1242	BRL	µg/L	1.0	0.36	1	8082	06/15/06 21:21	jvogel	Q15728
PCB-1248	BRL	µg/L	0.50	0.25	1	8082	06/15/06 21:21	jvogel	Q15728
PCB-1254	BRL	µg/L	0.50	0.25	1	8082	06/15/06 21:21	jvogel	Q15728
PCB-1260	BRL	µg/L	0.50	0.26	1	8082	06/15/06 21:21	jvogel	Q15728
Sample Preparation:			980 mL / 10 mL			3510C	06/12/06 9:00	smanivanh	P15598

Surrogate	% Recovery	Control Limits
Tetrachloro-m-xylene (TCMX)	108	30 - 161
Decachlorobiphenyl (DCB)	90	32 - 178

Volatile Organic Compounds by GC/MS

1,1,1,2-Tetrachloroethane	BRL	µg/L	1.0	0.40	1	8260B	06/15/06 18:47	kcampigotto	Q15627
1,1,1-Trichloroethane	BRL	µg/L	1.0	0.45	1	8260B	06/15/06 18:47	kcampigotto	Q15627
1,1,2,2-Tetrachloroethane	BRL	µg/L	1.0	0.30	1	8260B	06/15/06 18:47	kcampigotto	Q15627
1,1,2-Trichloroethane	BRL	µg/L	1.0	0.42	1	8260B	06/15/06 18:47	kcampigotto	Q15627
1,1-Dichloroethane	BRL	µg/L	1.0	0.38	1	8260B	06/15/06 18:47	kcampigotto	Q15627
1,1-Dichloroethene	BRL	µg/L	1.0	0.43	1	8260B	06/15/06 18:47	kcampigotto	Q15627
1,1-Dichloropropene	BRL	µg/L	1.0	0.39	1	8260B	06/15/06 18:47	kcampigotto	Q15627
1,2,3-Trichlorobenzene	BRL	µg/L	2.0	0.57	1	8260B	06/15/06 18:47	kcampigotto	Q15627
1,2,3-Trichloropropane	BRL	µg/L	1.0	0.50	1	8260B	06/15/06 18:47	kcampigotto	Q15627
1,2,4-Trichlorobenzene	BRL	µg/L	1.0	0.42	1	8260B	06/15/06 18:47	kcampigotto	Q15627
1,2-Dibromo-3-chloropropane	BRL	µg/L	2.0	0.56	1	8260B	06/15/06 18:47	kcampigotto	Q15627
1,2-Dibromoethane (EDB)	BRL	µg/L	1.0	0.46	1	8260B	06/15/06 18:47	kcampigotto	Q15627
1,2-Dichlorobenzene	BRL	µg/L	1.0	0.27	1	8260B	06/15/06 18:47	kcampigotto	Q15627
1,2-Dichloroethane	BRL	µg/L	1.0	0.36	1	8260B	06/15/06 18:47	kcampigotto	Q15627
1,2-Dichloropropane	BRL	µg/L	1.0	0.26	1	8260B	06/15/06 18:47	kcampigotto	Q15627
1,3-Dichlorobenzene	BRL	µg/L	1.0	0.22	1	8260B	06/15/06 18:47	kcampigotto	Q15627

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Full Service Analytical & Environmental Solutions

NC Certification No. 402
SC Certification No. 99012
NC Drinking Water Cert. No. 37735

Laboratory Report

6/27/06

Weston Solutions
Attn: Tara Rowland
4917 Waters Edge
Suite 235
Raleigh, NC 27606

Project Name: Durham County Landfill
Project ID: Assessment Monitoring
Sample Matrix: Water

Client Sample ID: MW-2
Prism Sample ID: 152773
COC Group: G0606188
Time Collected: 06/06/06 12:00
Time Submitted: 06/07/06 16:30

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
1,3-Dichloropropane	BRL	µg/L	1.0	0.26	1	8260B	06/15/06 18:47	kcampigotto	Q15627
1,4-Dichlorobenzene	BRL	µg/L	1.0	0.32	1	8260B	06/15/06 18:47	kcampigotto	Q15627
2,2-Dichloropropane	BRL	µg/L	2.0	0.73	1	8260B	06/15/06 18:47	kcampigotto	Q15627
2-Hexanone	BRL	µg/L	5.0	0.38	1	8260B	06/15/06 18:47	kcampigotto	Q15627
4-Methyl-2-pentanone (MIBK)	BRL	µg/L	5.0	0.32	1	8260B	06/15/06 18:47	kcampigotto	Q15627
Acetone	BRL	µg/L	10	2.5	1	8260B	06/15/06 18:47	kcampigotto	Q15627
Acetonitrile	BRL	µg/L	20	5.0	1	8260B	06/15/06 18:47	kcampigotto	Q15627
Acrolein	BRL	µg/L	100	4.5	1	8260B	06/15/06 18:47	kcampigotto	Q15627
Acrylonitrile	BRL	µg/L	100	0.65	1	8260B	06/15/06 18:47	kcampigotto	Q15627
Allyl chloride	BRL	µg/L	10	5.0	1	8260B	06/15/06 18:47	kcampigotto	Q15627
Benzene	BRL	µg/L	0.50	0.14	1	8260B	06/15/06 18:47	kcampigotto	Q15627
Bromochloromethane	BRL	µg/L	1.0	0.31	1	8260B	06/15/06 18:47	kcampigotto	Q15627
Bromodichloromethane	BRL	µg/L	1.0	0.31	1	8260B	06/15/06 18:47	kcampigotto	Q15627
Bromoform	BRL	µg/L	1.0	0.39	1	8260B	06/15/06 18:47	kcampigotto	Q15627
Bromomethane	BRL	µg/L	3.0	1.1	1	8260B	06/15/06 18:47	kcampigotto	Q15627
Carbon disulfide	BRL	µg/L	5.0	0.71	1	8260B	06/15/06 18:47	kcampigotto	Q15627
Carbon tetrachloride	BRL	µg/L	2.0	0.52	1	8260B	06/15/06 18:47	kcampigotto	Q15627
Chlorobenzene	BRL	µg/L	1.0	0.24	1	8260B	06/15/06 18:47	kcampigotto	Q15627
Chlorodibromomethane	BRL	µg/L	1.0	0.10	1	8260B	06/15/06 18:47	kcampigotto	Q15627
Chloroethane	BRL	µg/L	5.0	1.6	1	8260B	06/15/06 18:47	kcampigotto	Q15627
Chloroform	BRL	µg/L	1.0	0.35	1	8260B	06/15/06 18:47	kcampigotto	Q15627
Chloromethane	BRL	µg/L	2.0	0.47	1	8260B	06/15/06 18:47	kcampigotto	Q15627
Chloroprene	BRL	µg/L	10	5.0	1	8260B	06/15/06 18:47	kcampigotto	Q15627
cis-1,2-Dichloroethene	BRL	µg/L	1.0	0.47	1	8260B	06/15/06 18:47	kcampigotto	Q15627
cis-1,3-Dichloropropene	BRL	µg/L	1.0	0.29	1	8260B	06/15/06 18:47	kcampigotto	Q15627
Dibromomethane	BRL	µg/L	1.0	0.34	1	8260B	06/15/06 18:47	kcampigotto	Q15627
Dichlorodifluoromethane	BRL	µg/L	2.0	0.26	1	8260B	06/15/06 18:47	kcampigotto	Q15627
Ethyl methacrylate	BRL	µg/L	10	5.0	1	8260B	06/15/06 18:47	kcampigotto	Q15627

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NC Drinking Water Cert. No. 37735

Full Service Analytical & Environmental Solutions

Laboratory Report

6/27/06

Weston Solutions
Attn: Tara Rowland
4917 Waters Edge
Suite 235
Raleigh, NC 27606

Project Name: Durham County Landfill
Project ID: Assessment Monitoring
Sample Matrix: Water

Client Sample ID: MW-2
Prism Sample ID: 152773
COC Group: G0606188
Time Collected: 06/06/06 12:00
Time Submitted: 06/07/06 16:30

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Ethylbenzene	BRL	µg/L	1.0	0.32	1	8260B	06/15/06 18:47	kcampigotto	Q15627
Isobutyl alcohol	BRL	µg/L	10	5.0	1	8260B	06/15/06 18:47	kcampigotto	Q15627
m,p-Xylenes	BRL	µg/L	2.0	0.51	1	8260B	06/15/06 18:47	kcampigotto	Q15627
Methacrylonitrile	BRL	µg/L	10	5.0	1	8260B	06/15/06 18:47	kcampigotto	Q15627
Methyl ethyl ketone (MEK)	BRL	µg/L	5.0	0.81	1	8260B	06/15/06 18:47	kcampigotto	Q15627
Methyl iodide	BRL	µg/L	5.0	2.0	1	8260B	06/15/06 18:47	kcampigotto	Q15627
Methyl methacrylate	BRL	µg/L	10	5.0	1	8260B	06/15/06 18:47	kcampigotto	Q15627
Methylene chloride	BRL	µg/L	2.0	0.61	1	8260B	06/15/06 18:47	kcampigotto	Q15627
o-Xylene	BRL	µg/L	1.0	0.24	1	8260B	06/15/06 18:47	kcampigotto	Q15627
Propionitrile	BRL	µg/L	10	5.0	1	8260B	06/15/06 18:47	kcampigotto	Q15627
Styrene	BRL	µg/L	1.0	0.22	1	8260B	06/15/06 18:47	kcampigotto	Q15627
Tetrachloroethene	BRL	µg/L	1.0	0.49	1	8260B	06/15/06 18:47	kcampigotto	Q15627
Toluene	BRL	µg/L	1.0	0.39	1	8260B	06/15/06 18:47	kcampigotto	Q15627
trans-1,2-Dichloroethene	BRL	µg/L	2.0	0.56	1	8260B	06/15/06 18:47	kcampigotto	Q15627
trans-1,3-Dichloropropene	BRL	µg/L	1.0	0.38	1	8260B	06/15/06 18:47	kcampigotto	Q15627
trans-1,4-Dichloro-2-butene	BRL	µg/L	10	5.0	1	8260B	06/15/06 18:47	kcampigotto	Q15627
Trichloroethene	BRL	µg/L	2.0	0.52	1	8260B	06/15/06 18:47	kcampigotto	Q15627
Trichlorofluoromethane	BRL	µg/L	2.0	0.65	1	8260B	06/15/06 18:47	kcampigotto	Q15627
Vinyl acetate	BRL	µg/L	20	10	1	8260B	06/15/06 18:47	kcampigotto	Q15627
Vinyl chloride	BRL	µg/L	2.0	0.60	1	8260B	06/15/06 18:47	kcampigotto	Q15627

Surrogate	% Recovery	Control Limits
Toluene-d8	100	75 - 121
Dibromofluoromethane	109	74 - 133
Bromofluorobenzene	103	69 - 139

Semi-volatile Organics by GC/MS

1,2,4,5-Tetrachlorobenzene	BRL	µg/L	10	5.0	1	8270C	06/16/06 2:19	kelliot	Q15582

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Full Service Analytical & Environmental Solutions

Laboratory Report

6/27/06

Weston Solutions
Attn: Tara Rowland
4917 Waters Edge
Suite 235
Raleigh, NC 27606

Project Name: Durham County Landfill
Project ID: Assessment Monitoring
Sample Matrix: Water

Client Sample ID: MW-2
Prism Sample ID: 152773
COC Group: G0606188
Time Collected: 06/06/06 12:00
Time Submitted: 06/07/06 16:30

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
1,3,5-Trinitrobenzene	BRL	µg/L	10	5.0	1	8270C	06/16/06 2:19	kelliot	Q15582
1,3-Dinitrobenzene	BRL	µg/L	10	5.0	1	8270C	06/16/06 2:19	kelliot	Q15582
1,4-Diphenylenediamine	BRL	µg/L	10	5.0	1	8270C	06/16/06 2:19	kelliot	Q15582
1,4-Napthaquinone	BRL	µg/L	10	5.0	1	8270C	06/16/06 2:19	kelliot	Q15582
1-Napthylamine	BRL	µg/L	10	5.0	1	8270C	06/16/06 2:19	kelliot	Q15582
2,3,4,6-Tetrachlorophenol	BRL	µg/L	10	5.0	1	8270C	06/16/06 2:19	kelliot	Q15582
2,4,5-Trichlorophenol	BRL	µg/L	9.9	2.6	1	8270C	06/16/06 2:19	kelliot	Q15582
2,4,6-Trichlorophenol	BRL	µg/L	9.9	2.5	1	8270C	06/16/06 2:19	kelliot	Q15582
2,4-Dichlorophenol	BRL	µg/L	9.9	2.4	1	8270C	06/16/06 2:19	kelliot	Q15582
2,4-Dimethylphenol	BRL	µg/L	9.9	2.9	1	8270C	06/16/06 2:19	kelliot	Q15582
2,4-Dinitrophenol	BRL	µg/L	9.9	2.2	1	8270C	06/16/06 2:19	kelliot	Q15582
2,4-Dinitrotoluene	BRL	µg/L	9.9	1.3	1	8270C	06/16/06 2:19	kelliot	Q15582
2,6-Dichlorophenol	BRL	µg/L	10	5.0	1	8270C	06/16/06 2:19	kelliot	Q15582
2,6-Dinitrotoluene	BRL	µg/L	9.9	1.3	1	8270C	06/16/06 2:19	kelliot	Q15582
2-Acetylaminofluorene	BRL	µg/L	10	5.0	1	8270C	06/16/06 2:19	kelliot	Q15582
2-Chloronaphthalene	BRL	µg/L	9.9	2.2	1	8270C	06/16/06 2:19	kelliot	Q15582
2-Chlorophenol	BRL	µg/L	9.9	2.4	1	8270C	06/16/06 2:19	kelliot	Q15582
2-Methylnaphthalene	BRL	µg/L	9.9	1.8	1	8270C	06/16/06 2:19	kelliot	Q15582
2-Methylphenol	BRL	µg/L	9.9	2.8	1	8270C	06/16/06 2:19	kelliot	Q15582
2-Napthylamine	BRL	µg/L	10	5.0	1	8270C	06/16/06 2:19	kelliot	Q15582
2-Nitroaniline	BRL	µg/L	9.9	2.1	1	8270C	06/16/06 2:19	kelliot	Q15582
2-Nitrophenol	BRL	µg/L	9.9	3.1	1	8270C	06/16/06 2:19	kelliot	Q15582
3&4-Methylphenol	BRL	µg/L	9.9	3.7	1	8270C	06/16/06 2:19	kelliot	Q15582
3,3'-Dichlorobenzidine	BRL	µg/L	9.9	2.5	1	8270C	06/16/06 2:19	kelliot	Q15582
3,3'-Dimethylbenzidine	BRL	µg/L	10	5.0	1	8270C	06/16/06 2:19	kelliot	Q15582
3-Methylcholanthrene	BRL	µg/L	10	5.0	1	8270C	06/16/06 2:19	kelliot	Q15582
3-Nitroaniline	BRL	µg/L	9.9	1.8	1	8270C	06/16/06 2:19	kelliot	Q15582
4,6-Dinitro-2-methylphenol	BRL	µg/L	9.9	1.2	1	8270C	06/16/06 2:19	kelliot	Q15582

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Full Service Analytical & Environmental Solutions

Laboratory Report

6/27/06

Weston Solutions
Attn: Tara Rowland
4917 Waters Edge
Suite 235
Raleigh, NC 27606

Project Name: Durham County Landfill
Project ID: Assessment Monitoring
Sample Matrix: Water

Client Sample ID: MW-2
Prism Sample ID: 152773
COC Group: G0606188
Time Collected: 06/06/06 12:00
Time Submitted: 06/07/06 16:30

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
4-Aminobiphenyl	BRL	µg/L	10	5.0	1	8270C	06/16/06 2:19	kelliot	Q15582
4-Bromophenylphenylether	BRL	µg/L	9.9	1.5	1	8270C	06/16/06 2:19	kelliot	Q15582
4-Chloro-3-methylphenol	BRL	µg/L	9.9	1.8	1	8270C	06/16/06 2:19	kelliot	Q15582
4-Chloroaniline	BRL	µg/L	9.9	2.5	1	8270C	06/16/06 2:19	kelliot	Q15582
4-Chlorophenylphenylether	BRL	µg/L	9.9	1.9	1	8270C	06/16/06 2:19	kelliot	Q15582
4-Nitroaniline	BRL	µg/L	9.9	1.8	1	8270C	06/16/06 2:19	kelliot	Q15582
4-Nitrophenol	BRL	µg/L	9.9	0.54	1	8270C	06/16/06 2:19	kelliot	Q15582
5-Nitro-o-toluidine	BRL	µg/L	10	5.0	1	8270C	06/16/06 2:19	kelliot	Q15582
7,12-Dimethylbenz(a)anthracene	BRL	µg/L	10	5.0	1	8270C	06/16/06 2:19	kelliot	Q15582
Acenaphthene	BRL	µg/L	9.9	2.2	1	8270C	06/16/06 2:19	kelliot	Q15582
Acenaphthylene	BRL	µg/L	9.9	2.0	1	8270C	06/16/06 2:19	kelliot	Q15582
Acetophenone	BRL	µg/L	10	5.0	1	8270C	06/16/06 2:19	kelliot	Q15582
Anthracene	BRL	µg/L	9.9	0.76	1	8270C	06/16/06 2:19	kelliot	Q15582
Benzo(a)anthracene	BRL	µg/L	9.9	1.2	1	8270C	06/16/06 2:19	kelliot	Q15582
Benzo(a)pyrene	BRL	µg/L	9.9	0.91	1	8270C	06/16/06 2:19	kelliot	Q15582
Benzo(b)fluoranthene	BRL	µg/L	9.9	1.1	1	8270C	06/16/06 2:19	kelliot	Q15582
Benzo(g,h,i)perylene	BRL	µg/L	9.9	1.3	1	8270C	06/16/06 2:19	kelliot	Q15582
Benzo(k)fluoranthene	BRL	µg/L	9.9	1.1	1	8270C	06/16/06 2:19	kelliot	Q15582
Benzyl alcohol	BRL	µg/L	9.9	1.8	1	8270C	06/16/06 2:19	kelliot	Q15582
Bis(2-chloroethoxy)methane	BRL	µg/L	9.9	2.3	1	8270C	06/16/06 2:19	kelliot	Q15582
Bis(2-chloroethyl)ether	BRL	µg/L	9.9	2.8	1	8270C	06/16/06 2:19	kelliot	Q15582
Bis(2-chloroisopropyl)ether	BRL	µg/L	9.9	2.8	1	8270C	06/16/06 2:19	kelliot	Q15582
Bis(2-ethylhexyl)phthalate	BRL	µg/L	9.9	1.2	1	8270C	06/16/06 2:19	kelliot	Q15582
Butylbenzylphthalate	BRL	µg/L	9.9	0.74	1	8270C	06/16/06 2:19	kelliot	Q15582
Chlorobenzilate	BRL	µg/L	10	5.0	1	8270C	06/16/06 2:19	kelliot	Q15582
Chrysene	BRL	µg/L	9.9	0.94	1	8270C	06/16/06 2:19	kelliot	Q15582
Di-n-butylphthalate	BRL	µg/L	9.9	0.85	1	8270C	06/16/06 2:19	kelliot	Q15582
Di-n-octylphthalate	BRL	µg/L	9.9	2.0	1	8270C	06/16/06 2:19	kelliot	Q15582

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Full Service Analytical & Environmental Solutions

NC Certification No. 402
SC Certification No. 99012
NC Drinking Water Cert. No. 37735

Laboratory Report

6/27/06

Weston Solutions
Attn: Tara Rowland
4917 Waters Edge
Suite 235
Raleigh, NC 27606

Project Name: Durham County Landfill
Project ID: Assessment Monitoring
Sample Matrix: Water

Client Sample ID: MW-2
Prism Sample ID: 152773
COC Group: G0606188
Time Collected: 06/06/06 12:00
Time Submitted: 06/07/06 16:30

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Diallate	BRL	µg/L	10	5.0	1	8270C	06/16/06 2:19	kelliot	Q15582
Dibenzo(a,h)anthracene	BRL	µg/L	9.9	1.5	1	8270C	06/16/06 2:19	kelliot	Q15582
Dibenzofuran	BRL	µg/L	9.9	2.2	1	8270C	06/16/06 2:19	kelliot	Q15582
Diethylphthalate	BRL	µg/L	9.9	1.5	1	8270C	06/16/06 2:19	kelliot	Q15582
Dimethoate	BRL	µg/L	10	5.0	1	8270C	06/16/06 2:19	kelliot	Q15582
Dimethylphthalate	BRL	µg/L	9.9	2.1	1	8270C	06/16/06 2:19	kelliot	Q15582
Dinoseb	BRL	µg/L	10	5.0	1	8270C	06/16/06 2:19	kelliot	Q15582
Diphenylamine	BRL	µg/L	10	5.0	1	8270C	06/16/06 2:19	kelliot	Q15582
Disulfoton	BRL	µg/L	10	5.0	1	8270C	06/16/06 2:19	kelliot	Q15582
Ethylmethane sulfonate	BRL	µg/L	10	5.0	1	8270C	06/16/06 2:19	kelliot	Q15582
Famphur	BRL	µg/L	10	5.0	1	8270C	06/16/06 2:19	kelliot	Q15582
Fluoranthene	BRL	µg/L	9.9	0.61	1	8270C	06/16/06 2:19	kelliot	Q15582
Fluorene	BRL	µg/L	9.9	2.4	1	8270C	06/16/06 2:19	kelliot	Q15582
Hexachlorobenzene	BRL	µg/L	9.9	1.1	1	8270C	06/16/06 2:19	kelliot	Q15582
Hexachlorobutadiene	BRL	µg/L	9.9	1.9	1	8270C	06/16/06 2:19	kelliot	Q15582
Hexachlorocyclopentadiene	BRL	µg/L	9.9	2.4	1	8270C	06/16/06 2:19	kelliot	Q15582
Hexachloroethane	BRL	µg/L	9.9	2.1	1	8270C	06/16/06 2:19	kelliot	Q15582
Hexachloropropene	BRL	µg/L	10	5.0	1	8270C	06/16/06 2:19	kelliot	Q15582
Indeno(1,2,3-cd)pyrene	BRL	µg/L	9.9	1.8	1	8270C	06/16/06 2:19	kelliot	Q15582
Isodrin	BRL	µg/L	10	5.0	1	8270C	06/16/06 2:19	kelliot	Q15582
Isophorone	BRL	µg/L	9.9	3.0	1	8270C	06/16/06 2:19	kelliot	Q15582
Isosafrole	BRL	µg/L	10	5.0	1	8270C	06/16/06 2:19	kelliot	Q15582
Kepone	BRL	µg/L	10	5.0	1	8270C	06/16/06 2:19	kelliot	Q15582
Methapyrilene	BRL	µg/L	10	5.0	1	8270C	06/16/06 2:19	kelliot	Q15582
Methyl parathion	BRL	µg/L	9.9	5.0	1	8270C	06/16/06 2:19	kelliot	Q15582
Methylmethane sulfonate	BRL	µg/L	10	5.0	1	8270C	06/16/06 2:19	kelliot	Q15582
N-Nitrosodi-n-propylamine	BRL	µg/L	9.9	2.7	1	8270C	06/16/06 2:19	kelliot	Q15582
N-Nitrosodibutylamine	BRL	µg/L	10	5.0	1	8270C	06/16/06 2:19	kelliot	Q15582

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NC Certification No. 402
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Full Service Analytical & Environmental Solutions

Laboratory Report

6/27/06

Weston Solutions
Attn: Tara Rowland
4917 Waters Edge
Suite 235
Raleigh, NC 27606

Project Name: Durham County Landfill
Project ID: Assessment Monitoring
Sample Matrix: Water

Client Sample ID: MW-2
Prism Sample ID: 152773
COC Group: G0606188
Time Collected: 06/06/06 12:00
Time Submitted: 06/07/06 16:30

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
N-Nitrosodiethylamine	BRL	µg/L	10	5.0	1	8270C	06/16/06 2:19	kelliot	Q15582
N-Nitrosodimethylamine	BRL	µg/L	9.9	0.98	1	8270C	06/16/06 2:19	kelliot	Q15582
N-Nitrosodimethylethylamine	BRL	µg/L	10	5.0	1	8270C	06/16/06 2:19	kelliot	Q15582
N-Nitrosodiphenylamine	BRL	µg/L	9.9	1.5	1	8270C	06/16/06 2:19	kelliot	Q15582
n-Nitrosopiperidine	BRL	µg/L	10	5.0	1	8270C	06/16/06 2:19	kelliot	Q15582
N-Nitrosopyrrolidine	BRL	µg/L	10	5.0	1	8270C	06/16/06 2:19	kelliot	Q15582
Naphthalene	BRL	µg/L	9.9	1.9	1	8270C	06/16/06 2:19	kelliot	Q15582
Nitrobenzene	BRL	µg/L	9.9	2.4	1	8270C	06/16/06 2:19	kelliot	Q15582
o,o,o-Triethylphosphorthioate	BRL	µg/L	10	5.0	1	8270C	06/16/06 2:19	kelliot	Q15582
o-Toluidine	BRL	µg/L	10	5.0	1	8270C	06/16/06 2:19	kelliot	Q15582
p-Dimethylaminoazobenzene	BRL	µg/L	10	5.0	1	8270C	06/16/06 2:19	kelliot	Q15582
Pentachlorobenzene	BRL	µg/L	10	5.0	1	8270C	06/16/06 2:19	kelliot	Q15582
Pentachloronitrobenzene	BRL	µg/L	10	5.0	1	8270C	06/16/06 2:19	kelliot	Q15582
Pentachlorophenol	BRL	µg/L	9.9	0.64	1	8270C	06/16/06 2:19	kelliot	Q15582
Phenacetin	BRL	µg/L	10	5.0	1	8270C	06/16/06 2:19	kelliot	Q15582
Phenanthrene	BRL	µg/L	9.9	0.57	1	8270C	06/16/06 2:19	kelliot	Q15582
Phenol	BRL	µg/L	9.9	3.8	1	8270C	06/16/06 2:19	kelliot	Q15582
Phorate	BRL	µg/L	10	5.0	1	8270C	06/16/06 2:19	kelliot	Q15582
Pronamide	BRL	µg/L	10	5.0	1	8270C	06/16/06 2:19	kelliot	Q15582
Pyrene	BRL	µg/L	9.9	1.1	1	8270C	06/16/06 2:19	kelliot	Q15582
Safrole	BRL	µg/L	10	5.0	1	8270C	06/16/06 2:19	kelliot	Q15582
Thionazin	BRL	µg/L	10	5.0	1	8270C	06/16/06 2:19	kelliot	Q15582

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Laboratory Report

6/27/06

Weston Solutions
Attn: Tara Rowland
4917 Waters Edge
Suite 235
Raleigh, NC 27606

Project Name: Durham County Landfill
Project ID: Assessment Monitoring
Sample Matrix: Water

Client Sample ID: MW-2
Prism Sample ID: 152773
COC Group: G0606188
Time Collected: 06/06/06 12:00
Time Submitted: 06/07/06 16:30

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Sample Preparation:			1010 mL /		1 mL	3510C	06/10/06 9:00	smanivanh	P15587

Surrogate	% Recovery	Control Limits
Terphenyl-d14	104	41 - 136
Phenol-d5	10	10 - 78
Nitrobenzene-d5	73	13 - 107
2-Fluorophenol	22	10 - 75
2-Fluorobiphenyl	76	27 - 107
2,4,6-Tribromophenol	95	38 - 117

Cyanide by Colorimetric Method									
Cyanide, Total	[redacted]	mg/L	0.0020	0.0016	1	9014	06/16/06 11:16	cmatthews	Q15692
Sample Preparation:			500 mL /		500 mL	9010	06/15/06 12:00	cmatthews	P15643
Sulfide by Iodometric Method									
Sulfide	BRL	mg/L	2.0	0.094	1	376.1	06/12/06 8:00	cmatthews	Q15504

Sample Comment(s):

BRL = Below Reporting Limit
J = Estimated value between the Reporting Limit and the MDL
The results in this report relate only to the samples submitted for analysis and meet state certification requirements other than NELAC certification except for those instances indicated in the case narrative and/or test comments.

Angela D. Overcash, V.P. Laboratory Services

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6/27/06

Weston Solutions
Attn: Tara Rowland
4917 Waters Edge
Suite 235
Raleigh, NC 27606

Project Name: Durham County Landfill
Project ID: Assessment Monitoring
Sample Matrix: Water

Client Sample ID: MW-5
Prism Sample ID: 152774
COC Group: G0606188
Time Collected: 06/06/06 13:20
Time Submitted: 06/07/06 16:30

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Organochlorine Pesticides and PCBs by GC/ECD									
4,4'-DDD	BRL	µg/L	0.050	0.027	1	8081A	06/15/06 22:03	jvogel	Q15726
4,4'-DDE	BRL	µg/L	0.050	0.012	1	8081A	06/15/06 22:03	jvogel	Q15726
4,4'-DDT	BRL	µg/L	0.050	0.036	1	8081A	06/15/06 22:03	jvogel	Q15726
4,4'-Methoxychlor	BRL	µg/L	0.050	0.045	1	8081A	06/15/06 22:03	jvogel	Q15726
a-BHC	BRL	µg/L	0.050	0.010	1	8081A	06/15/06 22:03	jvogel	Q15726
Aldrin	BRL	µg/L	0.050	0.018	1	8081A	06/15/06 22:03	jvogel	Q15726
b-BHC	BRL	µg/L	0.050	0.021	1	8081A	06/15/06 22:03	jvogel	Q15726
Chlordane	BRL	µg/L	0.50	0.10	1	8081A	06/15/06 22:03	jvogel	Q15726
d-BHC	BRL	µg/L	0.050	0.015	1	8081A	06/15/06 22:03	jvogel	Q15726
Dieldrin	BRL	µg/L	0.050	0.013	1	8081A	06/15/06 22:03	jvogel	Q15726
Endosulfan I	BRL	µg/L	0.050	0.010	1	8081A	06/15/06 22:03	jvogel	Q15726
Endosulfan II	BRL	µg/L	0.050	0.019	1	8081A	06/15/06 22:03	jvogel	Q15726
Endosulfan Sulfate	BRL	µg/L	0.050	0.024	1	8081A	06/15/06 22:03	jvogel	Q15726
Endrin	BRL	µg/L	0.050	0.027	1	8081A	06/15/06 22:03	jvogel	Q15726
Endrin Aldehyde	BRL	µg/L	0.050	0.014	1	8081A	06/15/06 22:03	jvogel	Q15726
g-BHC	BRL	µg/L	0.050	0.021	1	8081A	06/15/06 22:03	jvogel	Q15726
Heptachlor	BRL	µg/L	0.050	0.022	1	8081A	06/15/06 22:03	jvogel	Q15726
Heptachlor Epoxide	BRL	µg/L	0.050	0.018	1	8081A	06/15/06 22:03	jvogel	Q15726
Toxaphene	BRL	µg/L	0.50	0.23	1	8081A	06/15/06 22:03	jvogel	Q15726
Sample Preparation:			980 mL / 10 mL			3510C	06/12/06 9:00	smanivanh	P15597

Surrogate	% Recovery	Control Limits
Tetrachloro-m-xylene (TCMX)	97	40 - 134
Decachlorobiphenyl (DCB)	106	13 - 186

Polychlorinated Biphenyls (PCBs) by GC-ECD									
PCB-1016	BRL	µg/L	0.50	0.17	1	8082	06/15/06 22:03	jvogel	Q15728
PCB-1221	BRL	µg/L	1.0	0.33	1	8082	06/15/06 22:03	jvogel	Q15728

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Full Service Analytical & Environmental Solutions

Laboratory Report

6/27/06

Weston Solutions
Attn: Tara Rowland
4917 Waters Edge
Suite 235
Raleigh, NC 27606

Project Name: Durham County Landfill
Project ID: Assessment Monitoring
Sample Matrix: Water

Client Sample ID: MW-5
Prism Sample ID: 152774
COC Group: G0606188
Time Collected: 06/06/06 13:20
Time Submitted: 06/07/06 16:30

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
PCB-1232	BRL	µg/L	0.50	0.25	1	8082	06/15/06 22:03	jvogel	Q15728
PCB-1242	BRL	µg/L	1.0	0.36	1	8082	06/15/06 22:03	jvogel	Q15728
PCB-1248	BRL	µg/L	0.50	0.25	1	8082	06/15/06 22:03	jvogel	Q15728
PCB-1254	BRL	µg/L	0.50	0.25	1	8082	06/15/06 22:03	jvogel	Q15728
PCB-1260	BRL	µg/L	0.50	0.26	1	8082	06/15/06 22:03	jvogel	Q15728
Sample Preparation:				980 mL / 10 mL		3510C	06/12/06 9:00	smanivanh	P15598

Surrogate	% Recovery	Control Limits
Tetrachloro-m-xylene (TCMX)	100	30 - 161
Decachlorobiphenyl (DCB)	106	32 - 178

Volatile Organic Compounds by GC/MS

1,1,1,2-Tetrachloroethane	BRL	µg/L	1.0	0.40	1	8260B	06/15/06 19:12	kcampigotto	Q15627
1,1,1-Trichloroethane	BRL	µg/L	1.0	0.45	1	8260B	06/15/06 19:12	kcampigotto	Q15627
1,1,2,2-Tetrachloroethane	BRL	µg/L	1.0	0.30	1	8260B	06/15/06 19:12	kcampigotto	Q15627
1,1,2-Trichloroethane	BRL	µg/L	1.0	0.42	1	8260B	06/15/06 19:12	kcampigotto	Q15627
1,1-Dichloroethane	BRL	µg/L	1.0	0.38	1	8260B	06/15/06 19:12	kcampigotto	Q15627
1,1-Dichloroethene	BRL	µg/L	1.0	0.43	1	8260B	06/15/06 19:12	kcampigotto	Q15627
1,1-Dichloropropene	BRL	µg/L	1.0	0.39	1	8260B	06/15/06 19:12	kcampigotto	Q15627
1,2,3-Trichlorobenzene	BRL	µg/L	2.0	0.57	1	8260B	06/15/06 19:12	kcampigotto	Q15627
1,2,3-Trichloropropane	BRL	µg/L	1.0	0.50	1	8260B	06/15/06 19:12	kcampigotto	Q15627
1,2,4-Trichlorobenzene	BRL	µg/L	1.0	0.42	1	8260B	06/15/06 19:12	kcampigotto	Q15627
1,2-Dibromo-3-chloropropane	BRL	µg/L	2.0	0.56	1	8260B	06/15/06 19:12	kcampigotto	Q15627
1,2-Dibromoethane (EDB)	BRL	µg/L	1.0	0.46	1	8260B	06/15/06 19:12	kcampigotto	Q15627
1,2-Dichlorobenzene	BRL	µg/L	1.0	0.27	1	8260B	06/15/06 19:12	kcampigotto	Q15627
1,2-Dichloroethane	BRL	µg/L	1.0	0.36	1	8260B	06/15/06 19:12	kcampigotto	Q15627
1,2-Dichloropropane	BRL	µg/L	1.0	0.26	1	8260B	06/15/06 19:12	kcampigotto	Q15627
1,3-Dichlorobenzene	BRL	µg/L	1.0	0.22	1	8260B	06/15/06 19:12	kcampigotto	Q15627

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6/27/06

Weston Solutions
Attn: Tara Rowland
4917 Waters Edge
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Raleigh, NC 27606

Project Name: Durham County Landfill
Project ID: Assessment Monitoring
Sample Matrix: Water

Client Sample ID: MW-5
Prism Sample ID: 152774
COC Group: G0606188
Time Collected: 06/06/06 13:20
Time Submitted: 06/07/06 16:30

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
1,3-Dichloropropane	BRL	µg/L	1.0	0.26	1	8260B	06/15/06 19:12	kcampigotto	Q15627
1,4-Dichlorobenzene	BRL	µg/L	1.0	0.32	1	8260B	06/15/06 19:12	kcampigotto	Q15627
2,2-Dichloropropane	BRL	µg/L	2.0	0.73	1	8260B	06/15/06 19:12	kcampigotto	Q15627
2-Hexanone	BRL	µg/L	5.0	0.38	1	8260B	06/15/06 19:12	kcampigotto	Q15627
4-Methyl-2-pentanone (MIBK)	BRL	µg/L	5.0	0.32	1	8260B	06/15/06 19:12	kcampigotto	Q15627
Acetone	BRL	µg/L	10	2.5	1	8260B	06/15/06 19:12	kcampigotto	Q15627
Acetonitrile	BRL	µg/L	20	5.0	1	8260B	06/15/06 19:12	kcampigotto	Q15627
Acrolein	BRL	µg/L	100	4.5	1	8260B	06/15/06 19:12	kcampigotto	Q15627
Acrylonitrile	BRL	µg/L	100	0.65	1	8260B	06/15/06 19:12	kcampigotto	Q15627
Allyl chloride	BRL	µg/L	10	5.0	1	8260B	06/15/06 19:12	kcampigotto	Q15627
Benzene	BRL	µg/L	0.50	0.14	1	8260B	06/15/06 19:12	kcampigotto	Q15627
Bromochloromethane	BRL	µg/L	1.0	0.31	1	8260B	06/15/06 19:12	kcampigotto	Q15627
Bromodichloromethane	BRL	µg/L	1.0	0.31	1	8260B	06/15/06 19:12	kcampigotto	Q15627
Bromoform	BRL	µg/L	1.0	0.39	1	8260B	06/15/06 19:12	kcampigotto	Q15627
Bromomethane	BRL	µg/L	3.0	1.1	1	8260B	06/15/06 19:12	kcampigotto	Q15627
Carbon disulfide	BRL	µg/L	5.0	0.71	1	8260B	06/15/06 19:12	kcampigotto	Q15627
Carbon tetrachloride	BRL	µg/L	2.0	0.52	1	8260B	06/15/06 19:12	kcampigotto	Q15627
Chlorobenzene	BRL	µg/L	1.0	0.24	1	8260B	06/15/06 19:12	kcampigotto	Q15627
Chlorodibromomethane	BRL	µg/L	1.0	0.10	1	8260B	06/15/06 19:12	kcampigotto	Q15627
Chloroethane	BRL	µg/L	5.0	1.6	1	8260B	06/15/06 19:12	kcampigotto	Q15627
Chloroform	BRL	µg/L	1.0	0.35	1	8260B	06/15/06 19:12	kcampigotto	Q15627
Chloromethane	BRL	µg/L	2.0	0.47	1	8260B	06/15/06 19:12	kcampigotto	Q15627
Chloroprene	BRL	µg/L	10	5.0	1	8260B	06/15/06 19:12	kcampigotto	Q15627
cis-1,2-Dichloroethene	BRL	µg/L	1.0	0.47	1	8260B	06/15/06 19:12	kcampigotto	Q15627
cis-1,3-Dichloropropene	BRL	µg/L	1.0	0.29	1	8260B	06/15/06 19:12	kcampigotto	Q15627
Dibromomethane	BRL	µg/L	1.0	0.34	1	8260B	06/15/06 19:12	kcampigotto	Q15627
Dichlorodifluoromethane	BRL	µg/L	2.0	0.26	1	8260B	06/15/06 19:12	kcampigotto	Q15627
Ethyl methacrylate	BRL	µg/L	10	5.0	1	8260B	06/15/06 19:12	kcampigotto	Q15627

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6/27/06

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Attn: Tara Rowland
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Project Name: Durham County Landfill
Project ID: Assessment Monitoring
Sample Matrix: Water

Client Sample ID: MW-5
Prism Sample ID: 152774
COC Group: G0606188
Time Collected: 06/06/06 13:20
Time Submitted: 06/07/06 16:30

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Ethylbenzene	BRL	µg/L	1.0	0.32	1	8260B	06/15/06 19:12	kcampigotto	Q15627
Isobutyl alcohol	BRL	µg/L	10	5.0	1	8260B	06/15/06 19:12	kcampigotto	Q15627
m,p-Xylenes	BRL	µg/L	2.0	0.51	1	8260B	06/15/06 19:12	kcampigotto	Q15627
Methacrylonitrile	BRL	µg/L	10	5.0	1	8260B	06/15/06 19:12	kcampigotto	Q15627
Methyl ethyl ketone (MEK)	BRL	µg/L	5.0	0.81	1	8260B	06/15/06 19:12	kcampigotto	Q15627
Methyl iodide	BRL	µg/L	5.0	2.0	1	8260B	06/15/06 19:12	kcampigotto	Q15627
Methyl methacrylate	BRL	µg/L	10	5.0	1	8260B	06/15/06 19:12	kcampigotto	Q15627
Methylene chloride	BRL	µg/L	2.0	0.61	1	8260B	06/15/06 19:12	kcampigotto	Q15627
o-Xylene	BRL	µg/L	1.0	0.24	1	8260B	06/15/06 19:12	kcampigotto	Q15627
Propionitrile	BRL	µg/L	10	5.0	1	8260B	06/15/06 19:12	kcampigotto	Q15627
Styrene	BRL	µg/L	1.0	0.22	1	8260B	06/15/06 19:12	kcampigotto	Q15627
Tetrachloroethene	BRL	µg/L	1.0	0.49	1	8260B	06/15/06 19:12	kcampigotto	Q15627
Toluene	BRL	µg/L	1.0	0.39	1	8260B	06/15/06 19:12	kcampigotto	Q15627
trans-1,2-Dichloroethene	BRL	µg/L	2.0	0.56	1	8260B	06/15/06 19:12	kcampigotto	Q15627
trans-1,3-Dichloropropene	BRL	µg/L	1.0	0.38	1	8260B	06/15/06 19:12	kcampigotto	Q15627
trans-1,4-Dichloro-2-butene	BRL	µg/L	10	5.0	1	8260B	06/15/06 19:12	kcampigotto	Q15627
Trichloroethene	BRL	µg/L	2.0	0.52	1	8260B	06/15/06 19:12	kcampigotto	Q15627
Trichlorofluoromethane	BRL	µg/L	2.0	0.65	1	8260B	06/15/06 19:12	kcampigotto	Q15627
Vinyl acetate	BRL	µg/L	20	10	1	8260B	06/15/06 19:12	kcampigotto	Q15627
Vinyl chloride	BRL	µg/L	2.0	0.60	1	8260B	06/15/06 19:12	kcampigotto	Q15627

Surrogate	% Recovery	Control Limits
Toluene-d8	99	75 - 121
Dibromofluoromethane	107	74 - 133
Bromofluorobenzene	101	69 - 139

Semi-volatile Organics by GC/MS

1,2,4,5-Tetrachlorobenzene	BRL	µg/L	10	5.0	1	8270C	06/16/06 3:12	kellot	Q15582

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NC Drinking Water Cert. No. 37735

Full Service Analytical & Environmental Solutions

Laboratory Report

6/27/06

Weston Solutions
Attn: Tara Rowland
4917 Waters Edge
Suite 235
Raleigh, NC 27606

Project Name: Durham County Landfill
Project ID: Assessment Monitoring
Sample Matrix: Water

Client Sample ID: MW-5
Prism Sample ID: 152774
COC Group: G0606188
Time Collected: 06/06/06 13:20
Time Submitted: 06/07/06 16:30

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
1,3,5-Trinitrobenzene	BRL	µg/L	10	5.0	1	8270C	06/16/06 3:12	kelliot	Q15582
1,3-Dinitrobenzene	BRL	µg/L	10	5.0	1	8270C	06/16/06 3:12	kelliot	Q15582
1,4-Diphenylenediamine	BRL	µg/L	10	5.0	1	8270C	06/16/06 3:12	kelliot	Q15582
1,4-Napthaquinone	BRL	µg/L	10	5.0	1	8270C	06/16/06 3:12	kelliot	Q15582
1-Napthylamine	BRL	µg/L	10	5.0	1	8270C	06/16/06 3:12	kelliot	Q15582
2,3,4,6-Tetrachlorophenol	BRL	µg/L	10	5.0	1	8270C	06/16/06 3:12	kelliot	Q15582
2,4,5-Trichlorophenol	BRL	µg/L	9.9	2.6	1	8270C	06/16/06 3:12	kelliot	Q15582
2,4,6-Trichlorophenol	BRL	µg/L	9.9	2.5	1	8270C	06/16/06 3:12	kelliot	Q15582
2,4-Dichlorophenol	BRL	µg/L	9.9	2.4	1	8270C	06/16/06 3:12	kelliot	Q15582
2,4-Dimethylphenol	BRL	µg/L	9.9	2.9	1	8270C	06/16/06 3:12	kelliot	Q15582
2,4-Dinitrophenol	BRL	µg/L	9.9	2.2	1	8270C	06/16/06 3:12	kelliot	Q15582
2,4-Dinitrotoluene	BRL	µg/L	9.9	1.3	1	8270C	06/16/06 3:12	kelliot	Q15582
2,6-Dichlorophenol	BRL	µg/L	10	5.0	1	8270C	06/16/06 3:12	kelliot	Q15582
2,6-Dinitrotoluene	BRL	µg/L	9.9	1.3	1	8270C	06/16/06 3:12	kelliot	Q15582
2-Acetylaminofluorene	BRL	µg/L	10	5.0	1	8270C	06/16/06 3:12	kelliot	Q15582
2-Chloronaphthalene	BRL	µg/L	9.9	2.2	1	8270C	06/16/06 3:12	kelliot	Q15582
2-Chlorophenol	BRL	µg/L	9.9	2.4	1	8270C	06/16/06 3:12	kelliot	Q15582
2-Methylnaphthalene	BRL	µg/L	9.9	1.8	1	8270C	06/16/06 3:12	kelliot	Q15582
2-Methylphenol	BRL	µg/L	9.9	2.8	1	8270C	06/16/06 3:12	kelliot	Q15582
2-Napthylamine	BRL	µg/L	10	5.0	1	8270C	06/16/06 3:12	kelliot	Q15582
2-Nitroaniline	BRL	µg/L	9.9	2.1	1	8270C	06/16/06 3:12	kelliot	Q15582
2-Nitrophenol	BRL	µg/L	9.9	3.1	1	8270C	06/16/06 3:12	kelliot	Q15582
3&4-Methylphenol	BRL	µg/L	9.9	3.7	1	8270C	06/16/06 3:12	kelliot	Q15582
3,3'-Dichlorobenzidine	BRL	µg/L	9.9	2.5	1	8270C	06/16/06 3:12	kelliot	Q15582
3,3'-Dimethylbenzidine	BRL	µg/L	10	5.0	1	8270C	06/16/06 3:12	kelliot	Q15582
3-Methylcholanthrene	BRL	µg/L	10	5.0	1	8270C	06/16/06 3:12	kelliot	Q15582
3-Nitroaniline	BRL	µg/L	9.9	1.8	1	8270C	06/16/06 3:12	kelliot	Q15582
4,6-Dinitro-2-methylphenol	BRL	µg/L	9.9	1.2	1	8270C	06/16/06 3:12	kelliot	Q15582

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NC Drinking Water Cert. No. 37735

Full Service Analytical & Environmental Solutions

Laboratory Report

6/27/06

Weston Solutions
Attn: Tara Rowland
4917 Waters Edge
Suite 235
Raleigh, NC 27606

Project Name: Durham County Landfill
Project ID: Assessment Monitoring
Sample Matrix: Water

Client Sample ID: MW-5
Prism Sample ID: 152774
COC Group: G0606188
Time Collected: 06/06/06 13:20
Time Submitted: 06/07/06 16:30

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
4-Aminobiphenyl	BRL	µg/L	10	5.0	1	8270C	06/16/06 3:12	kelliot	Q15582
4-Bromophenylphenylether	BRL	µg/L	9.9	1.5	1	8270C	06/16/06 3:12	kelliot	Q15582
4-Chloro-3-methylphenol	BRL	µg/L	9.9	1.8	1	8270C	06/16/06 3:12	kelliot	Q15582
4-Chloroaniline	BRL	µg/L	9.9	2.5	1	8270C	06/16/06 3:12	kelliot	Q15582
4-Chlorophenylphenylether	BRL	µg/L	9.9	1.9	1	8270C	06/16/06 3:12	kelliot	Q15582
4-Nitroaniline	BRL	µg/L	9.9	1.8	1	8270C	06/16/06 3:12	kelliot	Q15582
4-Nitrophenol	BRL	µg/L	9.9	0.54	1	8270C	06/16/06 3:12	kelliot	Q15582
5-Nitro-o-toluidine	BRL	µg/L	10	5.0	1	8270C	06/16/06 3:12	kelliot	Q15582
7,12-Dimethylbenz(a)anthracene	BRL	µg/L	10	5.0	1	8270C	06/16/06 3:12	kelliot	Q15582
Acenaphthene	BRL	µg/L	9.9	2.2	1	8270C	06/16/06 3:12	kelliot	Q15582
Acenaphthylene	BRL	µg/L	9.9	2.0	1	8270C	06/16/06 3:12	kelliot	Q15582
Acetophenone	BRL	µg/L	10	5.0	1	8270C	06/16/06 3:12	kelliot	Q15582
Anthracene	BRL	µg/L	9.9	0.76	1	8270C	06/16/06 3:12	kelliot	Q15582
Benzo(a)anthracene	BRL	µg/L	9.9	1.2	1	8270C	06/16/06 3:12	kelliot	Q15582
Benzo(a)pyrene	BRL	µg/L	9.9	0.91	1	8270C	06/16/06 3:12	kelliot	Q15582
Benzo(b)fluoranthene	BRL	µg/L	9.9	1.1	1	8270C	06/16/06 3:12	kelliot	Q15582
Benzo(g,h,i)perylene	BRL	µg/L	9.9	1.3	1	8270C	06/16/06 3:12	kelliot	Q15582
Benzo(k)fluoranthene	BRL	µg/L	9.9	1.1	1	8270C	06/16/06 3:12	kelliot	Q15582
Benzyl alcohol	BRL	µg/L	9.9	1.8	1	8270C	06/16/06 3:12	kelliot	Q15582
Bis(2-chloroethoxy)methane	BRL	µg/L	9.9	2.3	1	8270C	06/16/06 3:12	kelliot	Q15582
Bis(2-chloroethyl)ether	BRL	µg/L	9.9	2.8	1	8270C	06/16/06 3:12	kelliot	Q15582
Bis(2-chloroisopropyl)ether	BRL	µg/L	9.9	2.8	1	8270C	06/16/06 3:12	kelliot	Q15582
Bis(2-ethylhexyl)phthalate	BRL	µg/L	9.9	1.2	1	8270C	06/16/06 3:12	kelliot	Q15582
Butylbenzylphthalate	BRL	µg/L	9.9	0.74	1	8270C	06/16/06 3:12	kelliot	Q15582
Chlorobenzilate	BRL	µg/L	10	5.0	1	8270C	06/16/06 3:12	kelliot	Q15582
Chrysene	BRL	µg/L	9.9	0.94	1	8270C	06/16/06 3:12	kelliot	Q15582
Di-n-butylphthalate	BRL	µg/L	9.9	0.85	1	8270C	06/16/06 3:12	kelliot	Q15582
Di-n-octylphthalate	BRL	µg/L	9.9	2.0	1	8270C	06/16/06 3:12	kelliot	Q15582

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Laboratory Report

6/27/06

Weston Solutions
Attn: Tara Rowland
4917 Waters Edge
Suite 235
Raleigh, NC 27606

Project Name: Durham County Landfill
Project ID: Assessment Monitoring
Sample Matrix: Water

Client Sample ID: MW-5
Prism Sample ID: 152774
COC Group: G0606188
Time Collected: 06/06/06 13:20
Time Submitted: 06/07/06 16:30

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Diallate	BRL	µg/L	10	5.0	1	8270C	06/16/06 3:12	kelliot	Q15582
Dibenzo(a,h)anthracene	BRL	µg/L	9.9	1.5	1	8270C	06/16/06 3:12	kelliot	Q15582
Dibenzofuran	BRL	µg/L	9.9	2.2	1	8270C	06/16/06 3:12	kelliot	Q15582
Diethylphthalate	BRL	µg/L	9.9	1.5	1	8270C	06/16/06 3:12	kelliot	Q15582
Dimethoate	BRL	µg/L	10	5.0	1	8270C	06/16/06 3:12	kelliot	Q15582
Dimethylphthalate	BRL	µg/L	9.9	2.1	1	8270C	06/16/06 3:12	kelliot	Q15582
Dinoseb	BRL	µg/L	10	5.0	1	8270C	06/16/06 3:12	kelliot	Q15582
Diphenylamine	BRL	µg/L	10	5.0	1	8270C	06/16/06 3:12	kelliot	Q15582
Disulfoton	BRL	µg/L	10	5.0	1	8270C	06/16/06 3:12	kelliot	Q15582
Ethylmethane sulfonate	BRL	µg/L	10	5.0	1	8270C	06/16/06 3:12	kelliot	Q15582
Famphur	BRL	µg/L	10	5.0	1	8270C	06/16/06 3:12	kelliot	Q15582
Fluoranthene	BRL	µg/L	9.9	0.61	1	8270C	06/16/06 3:12	kelliot	Q15582
Fluorene	BRL	µg/L	9.9	2.4	1	8270C	06/16/06 3:12	kelliot	Q15582
Hexachlorobenzene	BRL	µg/L	9.9	1.1	1	8270C	06/16/06 3:12	kelliot	Q15582
Hexachlorobutadiene	BRL	µg/L	9.9	1.9	1	8270C	06/16/06 3:12	kelliot	Q15582
Hexachlorocyclopentadiene	BRL	µg/L	9.9	2.4	1	8270C	06/16/06 3:12	kelliot	Q15582
Hexachloroethane	BRL	µg/L	9.9	2.1	1	8270C	06/16/06 3:12	kelliot	Q15582
Hexachloropropene	BRL	µg/L	10	5.0	1	8270C	06/16/06 3:12	kelliot	Q15582
Indeno(1,2,3-cd)pyrene	BRL	µg/L	9.9	1.8	1	8270C	06/16/06 3:12	kelliot	Q15582
Isodrin	BRL	µg/L	10	5.0	1	8270C	06/16/06 3:12	kelliot	Q15582
Isophorone	BRL	µg/L	9.9	3.0	1	8270C	06/16/06 3:12	kelliot	Q15582
Isosafrole	BRL	µg/L	10	5.0	1	8270C	06/16/06 3:12	kelliot	Q15582
Kepone	BRL	µg/L	10	5.0	1	8270C	06/16/06 3:12	kelliot	Q15582
Methapyrilene	BRL	µg/L	10	5.0	1	8270C	06/16/06 3:12	kelliot	Q15582
Methyl parathion	BRL	µg/L	9.9	5.0	1	8270C	06/16/06 3:12	kelliot	Q15582
Methylmethane sulfonate	BRL	µg/L	10	5.0	1	8270C	06/16/06 3:12	kelliot	Q15582
N-Nitrosodi-n-propylamine	BRL	µg/L	9.9	2.7	1	8270C	06/16/06 3:12	kelliot	Q15582
N-Nitrosodibutylamine	BRL	µg/L	10	5.0	1	8270C	06/16/06 3:12	kelliot	Q15582

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Full Service Analytical & Environmental Solutions

Laboratory Report

6/27/06

Weston Solutions
Attn: Tara Rowland
4917 Waters Edge
Suite 235
Raleigh, NC 27606

Project Name: Durham County Landfill
Project ID: Assessment Monitoring
Sample Matrix: Water

Client Sample ID: MW-5
Prism Sample ID: 152774
COC Group: G0606188
Time Collected: 06/06/06 13:20
Time Submitted: 06/07/06 16:30

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
N-Nitrosodiethylamine	BRL	µg/L	10	5.0	1	8270C	06/16/06 3:12	kelliot	Q15582
N-Nitrosodimethylamine	BRL	µg/L	9.9	0.98	1	8270C	06/16/06 3:12	kelliot	Q15582
N-Nitrosodimethylethylamine	BRL	µg/L	10	5.0	1	8270C	06/16/06 3:12	kelliot	Q15582
N-Nitrosodiphenylamine	BRL	µg/L	9.9	1.5	1	8270C	06/16/06 3:12	kelliot	Q15582
n-Nitrosopiperidine	BRL	µg/L	10	5.0	1	8270C	06/16/06 3:12	kelliot	Q15582
N-Nitrosopyrrolidine	BRL	µg/L	10	5.0	1	8270C	06/16/06 3:12	kelliot	Q15582
Naphthalene	BRL	µg/L	9.9	1.9	1	8270C	06/16/06 3:12	kelliot	Q15582
Nitrobenzene	BRL	µg/L	9.9	2.4	1	8270C	06/16/06 3:12	kelliot	Q15582
o,o,o-Triethylphosphorthioate	BRL	µg/L	10	5.0	1	8270C	06/16/06 3:12	kelliot	Q15582
o-Toluidine	BRL	µg/L	10	5.0	1	8270C	06/16/06 3:12	kelliot	Q15582
p-Dimethylaminoazobenzene	BRL	µg/L	10	5.0	1	8270C	06/16/06 3:12	kelliot	Q15582
Pentachlorobenzene	BRL	µg/L	10	5.0	1	8270C	06/16/06 3:12	kelliot	Q15582
Pentachloronitrobenzene	BRL	µg/L	10	5.0	1	8270C	06/16/06 3:12	kelliot	Q15582
Pentachlorophenol	BRL	µg/L	9.9	0.64	1	8270C	06/16/06 3:12	kelliot	Q15582
Phenacetin	BRL	µg/L	10	5.0	1	8270C	06/16/06 3:12	kelliot	Q15582
Phenanthrene	BRL	µg/L	9.9	0.57	1	8270C	06/16/06 3:12	kelliot	Q15582
Phenol	BRL	µg/L	9.9	3.8	1	8270C	06/16/06 3:12	kelliot	Q15582
Phorate	BRL	µg/L	10	5.0	1	8270C	06/16/06 3:12	kelliot	Q15582
Pronamide	BRL	µg/L	10	5.0	1	8270C	06/16/06 3:12	kelliot	Q15582
Pyrene	BRL	µg/L	9.9	1.1	1	8270C	06/16/06 3:12	kelliot	Q15582
Safrole	BRL	µg/L	10	5.0	1	8270C	06/16/06 3:12	kelliot	Q15582
Thionazin	BRL	µg/L	10	5.0	1	8270C	06/16/06 3:12	kelliot	Q15582

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Full Service Analytical & Environmental Solutions

Laboratory Report

6/27/06

Weston Solutions
Attn: Tara Rowland
4917 Waters Edge
Suite 235
Raleigh, NC 27606

Project Name: Durham County Landfill
Project ID: Assessment Monitoring
Sample Matrix: Water

Client Sample ID: MW-5
Prism Sample ID: 152774
COC Group: G0606188
Time Collected: 06/06/06 13:20
Time Submitted: 06/07/06 16:30

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Sample Preparation:			1010 mL /		1 mL	3510C	06/10/06 9:00	smanivanh	P15587

Surrogate	% Recovery	Control Limits
Terphenyl-d14	111	41 - 136
Phenol-d5	15	10 - 78
Nitrobenzene-d5	96	13 - 107
2-Fluorophenol	33	10 - 75
2-Fluorobiphenyl	101	27 - 107
2,4,6-Tribromophenol	105	38 - 117

Cyanide by Colorimetric Method									
Cyanide, Total	[redacted]	mg/L	0.0020	0.0016	1	9014	06/16/06 11:16	cmatthews	Q15692
Sample Preparation:			500 mL /		500 mL	9010	06/15/06 12:00	cmatthews	P15643
Sulfide by Iodometric Method									
Sulfide	[redacted]	mg/L	2.0	0.094	1	376.1	06/12/06 8:00	cmatthews	Q15504

Sample Comment(s):

BRL = Below Reporting Limit

J = Estimated value between the Reporting Limit and the MDL

The results in this report relate only to the samples submitted for analysis and meet state certification requirements other than NELAC certification except for those instances indicated in the case narrative and/or test comments.

Angela D. Overcash, V.P. Laboratory Services

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Laboratory Report

6/27/06

Weston Solutions
Attn: Tara Rowland
4917 Waters Edge
Suite 235
Raleigh, NC 27606

Project Name: Durham County Landfill
Project ID: Assessment Monitoring
Sample Matrix: Water

Client Sample ID: MW-8
Prism Sample ID: 152775
COC Group: G0606188
Time Collected: 06/06/06 15:05
Time Submitted: 06/07/06 16:30

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Organochlorine Pesticides and PCBs by GC/ECD									
4,4'-DDD	BRL	µg/L	0.050	0.027	1	8081A	06/16/06 0:51	jvogel	Q15726
4,4'-DDE	BRL	µg/L	0.050	0.012	1	8081A	06/16/06 0:51	jvogel	Q15726
4,4'-DDT	BRL	µg/L	0.050	0.036	1	8081A	06/16/06 0:51	jvogel	Q15726
4,4'-Methoxychlor	BRL	µg/L	0.050	0.045	1	8081A	06/16/06 0:51	jvogel	Q15726
a-BHC	BRL	µg/L	0.050	0.010	1	8081A	06/16/06 0:51	jvogel	Q15726
Aldrin	BRL	µg/L	0.050	0.018	1	8081A	06/16/06 0:51	jvogel	Q15726
b-BHC	BRL	µg/L	0.050	0.021	1	8081A	06/16/06 0:51	jvogel	Q15726
Chlordane	BRL	µg/L	0.50	0.10	1	8081A	06/16/06 0:51	jvogel	Q15726
d-BHC	BRL	µg/L	0.050	0.015	1	8081A	06/16/06 0:51	jvogel	Q15726
Dieldrin	BRL	µg/L	0.050	0.013	1	8081A	06/16/06 0:51	jvogel	Q15726
Endosulfan I	BRL	µg/L	0.050	0.010	1	8081A	06/16/06 0:51	jvogel	Q15726
Endosulfan II	BRL	µg/L	0.050	0.019	1	8081A	06/16/06 0:51	jvogel	Q15726
Endosulfan Sulfate	BRL	µg/L	0.050	0.024	1	8081A	06/16/06 0:51	jvogel	Q15726
Endrin	BRL	µg/L	0.050	0.027	1	8081A	06/16/06 0:51	jvogel	Q15726
Endrin Aldehyde	BRL	µg/L	0.050	0.014	1	8081A	06/16/06 0:51	jvogel	Q15726
g-BHC	BRL	µg/L	0.050	0.021	1	8081A	06/16/06 0:51	jvogel	Q15726
Heptachlor	BRL	µg/L	0.050	0.022	1	8081A	06/16/06 0:51	jvogel	Q15726
Heptachlor Epoxide	BRL	µg/L	0.050	0.018	1	8081A	06/16/06 0:51	jvogel	Q15726
Toxaphene	BRL	µg/L	0.50	0.23	1	8081A	06/16/06 0:51	jvogel	Q15726
Sample Preparation:			900 mL / 10 mL			3510C	06/12/06 9:00	smanivanh	P15597

Surrogate	% Recovery	Control Limits
Tetrachloro-m-xylene (TCMX)	119	40 - 134
Decachlorobiphenyl (DCB)	109	13 - 186

Polychlorinated Biphenyls (PCBs) by GC-ECD									
PCB-1016	BRL	µg/L	0.50	0.17	1	8082	06/16/06 0:51	jvogel	Q15728
PCB-1221	BRL	µg/L	1.0	0.33	1	8082	06/16/06 0:51	jvogel	Q15728

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NC Drinking Water Cert. No. 37735

Full Service Analytical & Environmental Solutions

Laboratory Report

6/27/06

Weston Solutions
Attn: Tara Rowland
4917 Waters Edge
Suite 235
Raleigh, NC 27606

Project Name: Durham County Landfill
Project ID: Assessment Monitoring
Sample Matrix: Water

Client Sample ID: MW-8
Prism Sample ID: 152775
COC Group: G0606188
Time Collected: 06/06/06 15:05
Time Submitted: 06/07/06 16:30

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
PCB-1232	BRL	µg/L	0.50	0.25	1	8082	06/16/06 0:51	jvogel	Q15728
PCB-1242	BRL	µg/L	1.0	0.36	1	8082	06/16/06 0:51	jvogel	Q15728
PCB-1248	BRL	µg/L	0.50	0.25	1	8082	06/16/06 0:51	jvogel	Q15728
PCB-1254	BRL	µg/L	0.50	0.25	1	8082	06/16/06 0:51	jvogel	Q15728
PCB-1260	BRL	µg/L	0.50	0.26	1	8082	06/16/06 0:51	jvogel	Q15728
Sample Preparation:			900 mL / 10 mL			3510C	06/12/06 9:00	smanivanh	P15598

Surrogate	% Recovery	Control Limits
Tetrachloro-m-xylene (TCMX)	119	30 - 161
Decachlorobiphenyl (DCB)	109	32 - 178

Volatile Organic Compounds by GC/MS

1,1,1,2-Tetrachloroethane	BRL	µg/L	1.0	0.40	1	8260B	06/15/06 19:38	kcampigotto	Q15627
1,1,1-Trichloroethane	BRL	µg/L	1.0	0.45	1	8260B	06/15/06 19:38	kcampigotto	Q15627
1,1,2,2-Tetrachloroethane	BRL	µg/L	1.0	0.30	1	8260B	06/15/06 19:38	kcampigotto	Q15627
1,1,2-Trichloroethane	BRL	µg/L	1.0	0.42	1	8260B	06/15/06 19:38	kcampigotto	Q15627
1,1-Dichloroethane	BRL	µg/L	1.0	0.38	1	8260B	06/15/06 19:38	kcampigotto	Q15627
1,1-Dichloroethene	BRL	µg/L	1.0	0.43	1	8260B	06/15/06 19:38	kcampigotto	Q15627
1,1-Dichloropropene	BRL	µg/L	1.0	0.39	1	8260B	06/15/06 19:38	kcampigotto	Q15627
1,2,3-Trichlorobenzene	BRL	µg/L	2.0	0.57	1	8260B	06/15/06 19:38	kcampigotto	Q15627
1,2,3-Trichloropropane	BRL	µg/L	1.0	0.50	1	8260B	06/15/06 19:38	kcampigotto	Q15627
1,2,4-Trichlorobenzene	BRL	µg/L	1.0	0.42	1	8260B	06/15/06 19:38	kcampigotto	Q15627
1,2-Dibromo-3-chloropropane	BRL	µg/L	2.0	0.56	1	8260B	06/15/06 19:38	kcampigotto	Q15627
1,2-Dibromoethane (EDB)	BRL	µg/L	1.0	0.46	1	8260B	06/15/06 19:38	kcampigotto	Q15627
1,2-Dichlorobenzene	BRL	µg/L	1.0	0.27	1	8260B	06/15/06 19:38	kcampigotto	Q15627
1,2-Dichloroethane	BRL	µg/L	1.0	0.36	1	8260B	06/15/06 19:38	kcampigotto	Q15627
1,2-Dichloropropane	BRL	µg/L	1.0	0.26	1	8260B	06/15/06 19:38	kcampigotto	Q15627
1,3-Dichlorobenzene	BRL	µg/L	1.0	0.22	1	8260B	06/15/06 19:38	kcampigotto	Q15627

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NC Drinking Water Cert. No. 37735

Full Service Analytical & Environmental Solutions

Laboratory Report

6/27/06

Weston Solutions
Attn: Tara Rowland
4917 Waters Edge
Suite 235
Raleigh, NC 27606

Project Name: Durham County Landfill
Project ID: Assessment Monitoring
Sample Matrix: Water

Client Sample ID: MW-8
Prism Sample ID: 152775
COC Group: G0606188
Time Collected: 06/06/06 15:05
Time Submitted: 06/07/06 16:30

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
1,3-Dichloropropane	BRL	µg/L	1.0	0.26	1	8260B	06/15/06 19:38	kcampigotto	Q15627
1,4-Dichlorobenzene	BRL	µg/L	1.0	0.32	1	8260B	06/15/06 19:38	kcampigotto	Q15627
2,2-Dichloropropane	BRL	µg/L	2.0	0.73	1	8260B	06/15/06 19:38	kcampigotto	Q15627
2-Hexanone	BRL	µg/L	5.0	0.38	1	8260B	06/15/06 19:38	kcampigotto	Q15627
4-Methyl-2-pentanone (MIBK)	BRL	µg/L	5.0	0.32	1	8260B	06/15/06 19:38	kcampigotto	Q15627
Acetone	BRL	µg/L	10	2.5	1	8260B	06/15/06 19:38	kcampigotto	Q15627
Acetonitrile	BRL	µg/L	20	5.0	1	8260B	06/15/06 19:38	kcampigotto	Q15627
Acrolein	BRL	µg/L	100	4.5	1	8260B	06/15/06 19:38	kcampigotto	Q15627
Acrylonitrile	BRL	µg/L	100	0.65	1	8260B	06/15/06 19:38	kcampigotto	Q15627
Allyl chloride	BRL	µg/L	10	5.0	1	8260B	06/15/06 19:38	kcampigotto	Q15627
Benzene	BRL	µg/L	0.50	0.14	1	8260B	06/15/06 19:38	kcampigotto	Q15627
Bromochloromethane	BRL	µg/L	1.0	0.31	1	8260B	06/15/06 19:38	kcampigotto	Q15627
Bromodichloromethane	BRL	µg/L	1.0	0.31	1	8260B	06/15/06 19:38	kcampigotto	Q15627
Bromoform	BRL	µg/L	1.0	0.39	1	8260B	06/15/06 19:38	kcampigotto	Q15627
Bromomethane	BRL	µg/L	3.0	1.1	1	8260B	06/15/06 19:38	kcampigotto	Q15627
Carbon disulfide	BRL	µg/L	5.0	0.71	1	8260B	06/15/06 19:38	kcampigotto	Q15627
Carbon tetrachloride	BRL	µg/L	2.0	0.52	1	8260B	06/15/06 19:38	kcampigotto	Q15627
Chlorobenzene	BRL	µg/L	1.0	0.24	1	8260B	06/15/06 19:38	kcampigotto	Q15627
Chlorodibromomethane	BRL	µg/L	1.0	0.10	1	8260B	06/15/06 19:38	kcampigotto	Q15627
Chloroethane	BRL	µg/L	5.0	1.6	1	8260B	06/15/06 19:38	kcampigotto	Q15627
Chloroform	BRL	µg/L	1.0	0.35	1	8260B	06/15/06 19:38	kcampigotto	Q15627
Chloromethane	BRL	µg/L	2.0	0.47	1	8260B	06/15/06 19:38	kcampigotto	Q15627
Chloroprene	BRL	µg/L	10	5.0	1	8260B	06/15/06 19:38	kcampigotto	Q15627
cis-1,2-Dichloroethene	BRL	µg/L	1.0	0.47	1	8260B	06/15/06 19:38	kcampigotto	Q15627
cis-1,3-Dichloropropene	BRL	µg/L	1.0	0.29	1	8260B	06/15/06 19:38	kcampigotto	Q15627
Dibromomethane	BRL	µg/L	1.0	0.34	1	8260B	06/15/06 19:38	kcampigotto	Q15627
Dichlorodifluoromethane	BRL	µg/L	2.0	0.26	1	8260B	06/15/06 19:38	kcampigotto	Q15627
Ethyl methacrylate	BRL	µg/L	10	5.0	1	8260B	06/15/06 19:38	kcampigotto	Q15627

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Full Service Analytical & Environmental Solutions

Laboratory Report

6/27/06

Weston Solutions
Attn: Tara Rowland
4917 Waters Edge
Suite 235
Raleigh, NC 27606

Project Name: Durham County Landfill
Project ID: Assessment Monitoring
Sample Matrix: Water

Client Sample ID: MW-8
Prism Sample ID: 152775
COC Group: G0606188
Time Collected: 06/06/06 15:05
Time Submitted: 06/07/06 16:30

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Ethylbenzene	BRL	µg/L	1.0	0.32	1	8260B	06/15/06 19:38	kcampigotto	Q15627
Isobutyl alcohol	BRL	µg/L	10	5.0	1	8260B	06/15/06 19:38	kcampigotto	Q15627
m,p-Xylenes	BRL	µg/L	2.0	0.51	1	8260B	06/15/06 19:38	kcampigotto	Q15627
Methacrylonitrile	BRL	µg/L	10	5.0	1	8260B	06/15/06 19:38	kcampigotto	Q15627
Methyl ethyl ketone (MEK)	BRL	µg/L	5.0	0.81	1	8260B	06/15/06 19:38	kcampigotto	Q15627
Methyl iodide	BRL	µg/L	5.0	2.0	1	8260B	06/15/06 19:38	kcampigotto	Q15627
Methyl methacrylate	BRL	µg/L	10	5.0	1	8260B	06/15/06 19:38	kcampigotto	Q15627
Methylene chloride	BRL	µg/L	2.0	0.61	1	8260B	06/15/06 19:38	kcampigotto	Q15627
o-Xylene	BRL	µg/L	1.0	0.24	1	8260B	06/15/06 19:38	kcampigotto	Q15627
Propionitrile	BRL	µg/L	10	5.0	1	8260B	06/15/06 19:38	kcampigotto	Q15627
Styrene	BRL	µg/L	1.0	0.22	1	8260B	06/15/06 19:38	kcampigotto	Q15627
Tetrachloroethene	BRL	µg/L	1.0	0.49	1	8260B	06/15/06 19:38	kcampigotto	Q15627
Toluene	BRL	µg/L	1.0	0.39	1	8260B	06/15/06 19:38	kcampigotto	Q15627
trans-1,2-Dichloroethene	BRL	µg/L	2.0	0.56	1	8260B	06/15/06 19:38	kcampigotto	Q15627
trans-1,3-Dichloropropene	BRL	µg/L	1.0	0.38	1	8260B	06/15/06 19:38	kcampigotto	Q15627
trans-1,4-Dichloro-2-butene	BRL	µg/L	10	5.0	1	8260B	06/15/06 19:38	kcampigotto	Q15627
Trichloroethene	BRL	µg/L	2.0	0.52	1	8260B	06/15/06 19:38	kcampigotto	Q15627
Trichlorofluoromethane	BRL	µg/L	2.0	0.65	1	8260B	06/15/06 19:38	kcampigotto	Q15627
Vinyl acetate	BRL	µg/L	20	10	1	8260B	06/15/06 19:38	kcampigotto	Q15627
Vinyl chloride	BRL	µg/L	2.0	0.60	1	8260B	06/15/06 19:38	kcampigotto	Q15627

Surrogate	% Recovery	Control Limits
Toluene-d8	95	75 - 121
Dibromofluoromethane	103	74 - 133
Bromofluorobenzene	98	69 - 139

Semi-volatile Organics by GC/MS

1,2,4,5-Tetrachlorobenzene	BRL	µg/L	10	5.0	1	8270C	06/16/06 4:05	kelliot	Q15582

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Full Service Analytical & Environmental Solutions

Laboratory Report

6/27/06

Weston Solutions
Attn: Tara Rowland
4917 Waters Edge
Suite 235
Raleigh, NC 27606

Project Name: Durham County Landfill
Project ID: Assessment Monitoring
Sample Matrix: Water

Client Sample ID: MW-8
Prism Sample ID: 152775
COC Group: G0606188
Time Collected: 06/06/06 15:05
Time Submitted: 06/07/06 16:30

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
1,3,5-Trinitrobenzene	BRL	µg/L	10	5.0	1	8270C	06/16/06 4:05	kelliot	Q15582
1,3-Dinitrobenzene	BRL	µg/L	10	5.0	1	8270C	06/16/06 4:05	kelliot	Q15582
1,4-Diphenylenediamine	BRL	µg/L	10	5.0	1	8270C	06/16/06 4:05	kelliot	Q15582
1,4-Napthaquinone	BRL	µg/L	10	5.0	1	8270C	06/16/06 4:05	kelliot	Q15582
1-Napthylamine	BRL	µg/L	10	5.0	1	8270C	06/16/06 4:05	kelliot	Q15582
2,3,4,6-Tetrachlorophenol	BRL	µg/L	10	5.0	1	8270C	06/16/06 4:05	kelliot	Q15582
2,4,5-Trichlorophenol	BRL	µg/L	11	2.9	1	8270C	06/16/06 4:05	kelliot	Q15582
2,4,6-Trichlorophenol	BRL	µg/L	11	2.8	1	8270C	06/16/06 4:05	kelliot	Q15582
2,4-Dichlorophenol	BRL	µg/L	11	2.7	1	8270C	06/16/06 4:05	kelliot	Q15582
2,4-Dimethylphenol	BRL	µg/L	11	3.2	1	8270C	06/16/06 4:05	kelliot	Q15582
2,4-Dinitrophenol	BRL	µg/L	11	2.4	1	8270C	06/16/06 4:05	kelliot	Q15582
2,4-Dinitrotoluene	BRL	µg/L	11	1.4	1	8270C	06/16/06 4:05	kelliot	Q15582
2,6-Dichlorophenol	BRL	µg/L	10	5.0	1	8270C	06/16/06 4:05	kelliot	Q15582
2,6-Dinitrotoluene	BRL	µg/L	11	1.4	1	8270C	06/16/06 4:05	kelliot	Q15582
2-Acetylaminofluorene	BRL	µg/L	10	5.0	1	8270C	06/16/06 4:05	kelliot	Q15582
2-Chloronaphthalene	BRL	µg/L	11	2.4	1	8270C	06/16/06 4:05	kelliot	Q15582
2-Chlorophenol	BRL	µg/L	11	2.7	1	8270C	06/16/06 4:05	kelliot	Q15582
2-Methylnaphthalene	BRL	µg/L	11	2.0	1	8270C	06/16/06 4:05	kelliot	Q15582
2-Methylphenol	BRL	µg/L	11	3.1	1	8270C	06/16/06 4:05	kelliot	Q15582
2-Napthylamine	BRL	µg/L	10	5.0	1	8270C	06/16/06 4:05	kelliot	Q15582
2-Nitroaniline	BRL	µg/L	11	2.3	1	8270C	06/16/06 4:05	kelliot	Q15582
2-Nitrophenol	BRL	µg/L	11	3.4	1	8270C	06/16/06 4:05	kelliot	Q15582
3&4-Methylphenol	BRL	µg/L	11	4.1	1	8270C	06/16/06 4:05	kelliot	Q15582
3,3'-Dichlorobenzidine	BRL	µg/L	11	2.8	1	8270C	06/16/06 4:05	kelliot	Q15582
3,3'-Dimethylbenzidine	BRL	µg/L	10	5.0	1	8270C	06/16/06 4:05	kelliot	Q15582
3-Methylcholanthrene	BRL	µg/L	10	5.0	1	8270C	06/16/06 4:05	kelliot	Q15582
3-Nitroaniline	BRL	µg/L	11	2.0	1	8270C	06/16/06 4:05	kelliot	Q15582
4,6-Dinitro-2-methylphenol	BRL	µg/L	11	1.3	1	8270C	06/16/06 4:05	kelliot	Q15582

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Weston Solutions
Attn: Tara Rowland
4917 Waters Edge
Suite 235
Raleigh, NC 27606

Project Name: Durham County Landfill
Project ID: Assessment Monitoring
Sample Matrix: Water

Client Sample ID: MW-8
Prism Sample ID: 152775
COC Group: G0606188
Time Collected: 06/06/06 15:05
Time Submitted: 06/07/06 16:30

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
4-Aminobiphenyl	BRL	µg/L	10	5.0	1	8270C	06/16/06 4:05	kelliot	Q15582
4-Bromophenylphenylether	BRL	µg/L	11	1.7	1	8270C	06/16/06 4:05	kelliot	Q15582
4-Chloro-3-methylphenol	BRL	µg/L	11	2.0	1	8270C	06/16/06 4:05	kelliot	Q15582
4-Chloroaniline	BRL	µg/L	11	2.8	1	8270C	06/16/06 4:05	kelliot	Q15582
4-Chlorophenylphenylether	BRL	µg/L	11	2.1	1	8270C	06/16/06 4:05	kelliot	Q15582
4-Nitroaniline	BRL	µg/L	11	2.0	1	8270C	06/16/06 4:05	kelliot	Q15582
4-Nitrophenol	BRL	µg/L	11	0.61	1	8270C	06/16/06 4:05	kelliot	Q15582
5-Nitro-o-toluidine	BRL	µg/L	10	5.0	1	8270C	06/16/06 4:05	kelliot	Q15582
7,12-Dimethylbenz(a)anthracene	BRL	µg/L	10	5.0	1	8270C	06/16/06 4:05	kelliot	Q15582
Acenaphthene	BRL	µg/L	11	2.4	1	8270C	06/16/06 4:05	kelliot	Q15582
Acenaphthylene	BRL	µg/L	11	2.2	1	8270C	06/16/06 4:05	kelliot	Q15582
Acetophenone	BRL	µg/L	10	5.0	1	8270C	06/16/06 4:05	kelliot	Q15582
Anthracene	BRL	µg/L	11	0.86	1	8270C	06/16/06 4:05	kelliot	Q15582
Benzo(a)anthracene	BRL	µg/L	11	1.3	1	8270C	06/16/06 4:05	kelliot	Q15582
Benzo(a)pyrene	BRL	µg/L	11	1.0	1	8270C	06/16/06 4:05	kelliot	Q15582
Benzo(b)fluoranthene	BRL	µg/L	11	1.2	1	8270C	06/16/06 4:05	kelliot	Q15582
Benzo(g,h,i)perylene	BRL	µg/L	11	1.4	1	8270C	06/16/06 4:05	kelliot	Q15582
Benzo(k)fluoranthene	BRL	µg/L	11	1.2	1	8270C	06/16/06 4:05	kelliot	Q15582
Benzyl alcohol	BRL	µg/L	11	2.0	1	8270C	06/16/06 4:05	kelliot	Q15582
Bis(2-chloroethoxy)methane	BRL	µg/L	11	2.6	1	8270C	06/16/06 4:05	kelliot	Q15582
Bis(2-chloroethyl)ether	BRL	µg/L	11	3.1	1	8270C	06/16/06 4:05	kelliot	Q15582
Bis(2-chloroisopropyl)ether	BRL	µg/L	11	3.1	1	8270C	06/16/06 4:05	kelliot	Q15582
Bis(2-ethylhexyl)phthalate	BRL	µg/L	11	1.3	1	8270C	06/16/06 4:05	kelliot	Q15582
Butylbenzylphthalate	BRL	µg/L	11	0.83	1	8270C	06/16/06 4:05	kelliot	Q15582
Chlorobenzilate	BRL	µg/L	10	5.0	1	8270C	06/16/06 4:05	kelliot	Q15582
Chrysene	BRL	µg/L	11	1.1	1	8270C	06/16/06 4:05	kelliot	Q15582
Di-n-butylphthalate	BRL	µg/L	11	0.96	1	8270C	06/16/06 4:05	kelliot	Q15582
Di-n-octylphthalate	BRL	µg/L	11	2.2	1	8270C	06/16/06 4:05	kelliot	Q15582

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NC Drinking Water Cert. No. 37735

Full Service Analytical & Environmental Solutions

Laboratory Report

6/27/06

Weston Solutions
Attn: Tara Rowland
4917 Waters Edge
Suite 235
Raleigh, NC 27606

Project Name: Durham County Landfill
Project ID: Assessment Monitoring
Sample Matrix: Water

Client Sample ID: MW-8
Prism Sample ID: 152775
COC Group: G0606188
Time Collected: 06/06/06 15:05
Time Submitted: 06/07/06 16:30

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Diallate	BRL	µg/L	10	5.0	1	8270C	06/16/06 4:05	kelliot	Q15582
Dibenzo(a,h)anthracene	BRL	µg/L	11	1.7	1	8270C	06/16/06 4:05	kelliot	Q15582
Dibenzofuran	BRL	µg/L	11	2.4	1	8270C	06/16/06 4:05	kelliot	Q15582
Diethylphthalate	BRL	µg/L	11	1.7	1	8270C	06/16/06 4:05	kelliot	Q15582
Dimethoate	BRL	µg/L	10	5.0	1	8270C	06/16/06 4:05	kelliot	Q15582
Dimethylphthalate	BRL	µg/L	11	2.3	1	8270C	06/16/06 4:05	kelliot	Q15582
Dinoseb	BRL	µg/L	10	5.0	1	8270C	06/16/06 4:05	kelliot	Q15582
Diphenylamine	BRL	µg/L	10	5.0	1	8270C	06/16/06 4:05	kelliot	Q15582
Disulfoton	BRL	µg/L	10	5.0	1	8270C	06/16/06 4:05	kelliot	Q15582
Ethylmethane sulfonate	BRL	µg/L	10	5.0	1	8270C	06/16/06 4:05	kelliot	Q15582
Famphur	BRL	µg/L	10	5.0	1	8270C	06/16/06 4:05	kelliot	Q15582
Fluoranthene	BRL	µg/L	11	0.69	1	8270C	06/16/06 4:05	kelliot	Q15582
Fluorene	BRL	µg/L	11	2.7	1	8270C	06/16/06 4:05	kelliot	Q15582
Hexachlorobenzene	BRL	µg/L	11	1.2	1	8270C	06/16/06 4:05	kelliot	Q15582
Hexachlorobutadiene	BRL	µg/L	11	2.1	1	8270C	06/16/06 4:05	kelliot	Q15582
Hexachlorocyclopentadiene	BRL	µg/L	11	2.7	1	8270C	06/16/06 4:05	kelliot	Q15582
Hexachloroethane	BRL	µg/L	11	2.3	1	8270C	06/16/06 4:05	kelliot	Q15582
Hexachloropropene	BRL	µg/L	10	5.0	1	8270C	06/16/06 4:05	kelliot	Q15582
Indeno(1,2,3-cd)pyrene	BRL	µg/L	11	2.0	1	8270C	06/16/06 4:05	kelliot	Q15582
Isodrin	BRL	µg/L	10	5.0	1	8270C	06/16/06 4:05	kelliot	Q15582
Isophorone	BRL	µg/L	11	3.3	1	8270C	06/16/06 4:05	kelliot	Q15582
Isosafrole	BRL	µg/L	10	5.0	1	8270C	06/16/06 4:05	kelliot	Q15582
Kepone	BRL	µg/L	10	5.0	1	8270C	06/16/06 4:05	kelliot	Q15582
Methapyrilene	BRL	µg/L	10	5.0	1	8270C	06/16/06 4:05	kelliot	Q15582
Methyl parathion	BRL	µg/L	11	5.6	1	8270C	06/16/06 4:05	kelliot	Q15582
Methylmethane sulfonate	BRL	µg/L	10	5.0	1	8270C	06/16/06 4:05	kelliot	Q15582
N-Nitrosodi-n-propylamine	BRL	µg/L	11	3.0	1	8270C	06/16/06 4:05	kelliot	Q15582
N-Nitrosodibutylamine	BRL	µg/L	10	5.0	1	8270C	06/16/06 4:05	kelliot	Q15582

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Full Service Analytical & Environmental Solutions

Laboratory Report

6/27/06

Weston Solutions
Attn: Tara Rowland
4917 Waters Edge
Suite 235
Raleigh, NC 27606

Project Name: Durham County Landfill
Project ID: Assessment Monitoring
Sample Matrix: Water

Client Sample ID: MW-8
Prism Sample ID: 152775
COC Group: G0606188
Time Collected: 06/06/06 15:05
Time Submitted: 06/07/06 16:30

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
N-Nitrosodiethylamine	BRL	µg/L	10	5.0	1	8270C	06/16/06 4:05	kelliot	Q15582
N-Nitrosodimethylamine	BRL	µg/L	11	1.1	1	8270C	06/16/06 4:05	kelliot	Q15582
N-Nitrosodimethylethylamine	BRL	µg/L	10	5.0	1	8270C	06/16/06 4:05	kelliot	Q15582
N-Nitrosodiphenylamine	BRL	µg/L	11	1.7	1	8270C	06/16/06 4:05	kelliot	Q15582
n-Nitrosopiperidine	BRL	µg/L	10	5.0	1	8270C	06/16/06 4:05	kelliot	Q15582
N-Nitrosopyrrolidine	BRL	µg/L	10	5.0	1	8270C	06/16/06 4:05	kelliot	Q15582
Naphthalene	BRL	µg/L	11	2.1	1	8270C	06/16/06 4:05	kelliot	Q15582
Nitrobenzene	BRL	µg/L	11	2.7	1	8270C	06/16/06 4:05	kelliot	Q15582
o,o,o-Triethylphosphorthioate	BRL	µg/L	10	5.0	1	8270C	06/16/06 4:05	kelliot	Q15582
o-Toluidine	BRL	µg/L	10	5.0	1	8270C	06/16/06 4:05	kelliot	Q15582
p-Dimethylaminoazobenzene	BRL	µg/L	10	5.0	1	8270C	06/16/06 4:05	kelliot	Q15582
Pentachlorobenzene	BRL	µg/L	10	5.0	1	8270C	06/16/06 4:05	kelliot	Q15582
Pentachloronitrobenzene	BRL	µg/L	10	5.0	1	8270C	06/16/06 4:05	kelliot	Q15582
Pentachlorophenol	BRL	µg/L	11	0.72	1	8270C	06/16/06 4:05	kelliot	Q15582
Phenacetin	BRL	µg/L	10	5.0	1	8270C	06/16/06 4:05	kelliot	Q15582
Phenanthrene	BRL	µg/L	11	0.64	1	8270C	06/16/06 4:05	kelliot	Q15582
Phenol	BRL	µg/L	11	4.2	1	8270C	06/16/06 4:05	kelliot	Q15582
Phorate	BRL	µg/L	10	5.0	1	8270C	06/16/06 4:05	kelliot	Q15582
Pronamide	BRL	µg/L	10	5.0	1	8270C	06/16/06 4:05	kelliot	Q15582
Pyrene	BRL	µg/L	11	1.2	1	8270C	06/16/06 4:05	kelliot	Q15582
Safrole	BRL	µg/L	10	5.0	1	8270C	06/16/06 4:05	kelliot	Q15582
Thionazin	BRL	µg/L	10	5.0	1	8270C	06/16/06 4:05	kelliot	Q15582

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6/27/06

Weston Solutions
Attn: Tara Rowland
4917 Waters Edge
Suite 235
Raleigh, NC 27606

Project Name: Durham County Landfill
Project ID: Assessment Monitoring
Sample Matrix: Water

Client Sample ID: MW-8
Prism Sample ID: 152775
COC Group: G0606188
Time Collected: 06/06/06 15:05
Time Submitted: 06/07/06 16:30

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Sample Preparation:			900 mL /		1 mL	3510C	06/10/06 9:00	smanivanh	P15587

Surrogate	% Recovery	Control Limits
Terphenyl-d14	110	41 - 136
Phenol-d5	16	10 - 78
Nitrobenzene-d5	102	13 - 107
2-Fluorophenol	34	10 - 75
2-Fluorobiphenyl	97	27 - 107
2,4,6-Tribromophenol	100	38 - 117

Cyanide by Colorimetric Method									
Cyanide, Total	[redacted]	mg/L	0.0020	0.0016	1	9014	06/16/06 11:16	cmatthews	Q15692
Sample Preparation:			500 mL /		500 mL	9010	06/15/06 12:00	cmatthews	P15643
Sulfide by Iodometric Method									
Sulfide	**BRL**	mg/L	2.0	0.094	1	376.1	06/12/06 8:00	cmatthews	Q15504

Sample Comment(s):

BRL = Below Reporting Limit
J = Estimated value between the Reporting Limit and the MDL
The results in this report relate only to the samples submitted for analysis and meet state certification requirements other than NELAC certification except for those instances indicated in the case narrative and/or test comments.

Angela D. Overcash, V.P. Laboratory Services

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6/27/06

Weston Solutions
Attn: Tara Rowland
4917 Waters Edge
Suite 235
Raleigh, NC 27606

Project Name: Durham County Landfill
Project ID: Assessment Monitoring
Sample Matrix: Water

Client Sample ID: P-6
Prism Sample ID: 152776
COC Group: G0606188
Time Collected: 06/06/06 16:45
Time Submitted: 06/07/06 16:30

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Organochlorine Pesticides and PCBs by GC/ECD									
4,4'-DDD	BRL	µg/L	0.050	0.027	1	8081A	06/16/06 1:34	jvogel	Q15726
4,4'-DDE	BRL	µg/L	0.050	0.012	1	8081A	06/16/06 1:34	jvogel	Q15726
4,4'-DDT	BRL	µg/L	0.050	0.036	1	8081A	06/16/06 1:34	jvogel	Q15726
4,4'-Methoxychlor	BRL	µg/L	0.050	0.045	1	8081A	06/16/06 1:34	jvogel	Q15726
a-BHC	BRL	µg/L	0.050	0.010	1	8081A	06/16/06 1:34	jvogel	Q15726
Aldrin	BRL	µg/L	0.050	0.018	1	8081A	06/16/06 1:34	jvogel	Q15726
b-BHC	BRL	µg/L	0.050	0.021	1	8081A	06/16/06 1:34	jvogel	Q15726
Chlordane	BRL	µg/L	0.50	0.10	1	8081A	06/16/06 1:34	jvogel	Q15726
d-BHC	BRL	µg/L	0.050	0.015	1	8081A	06/16/06 1:34	jvogel	Q15726
Dieldrin	BRL	µg/L	0.050	0.013	1	8081A	06/16/06 1:34	jvogel	Q15726
Endosulfan I	BRL	µg/L	0.050	0.010	1	8081A	06/16/06 1:34	jvogel	Q15726
Endosulfan II	BRL	µg/L	0.050	0.019	1	8081A	06/16/06 1:34	jvogel	Q15726
Endosulfan Sulfate	BRL	µg/L	0.050	0.024	1	8081A	06/16/06 1:34	jvogel	Q15726
Endrin	BRL	µg/L	0.050	0.027	1	8081A	06/16/06 1:34	jvogel	Q15726
Endrin Aldehyde	BRL	µg/L	0.050	0.014	1	8081A	06/16/06 1:34	jvogel	Q15726
g-BHC	BRL	µg/L	0.050	0.021	1	8081A	06/16/06 1:34	jvogel	Q15726
Heptachlor	BRL	µg/L	0.050	0.022	1	8081A	06/16/06 1:34	jvogel	Q15726
Heptachlor Epoxide	BRL	µg/L	0.050	0.018	1	8081A	06/16/06 1:34	jvogel	Q15726
Toxaphene	BRL	µg/L	0.50	0.23	1	8081A	06/16/06 1:34	jvogel	Q15726
Sample Preparation:			900 mL / 10 mL			3510C	06/12/06 9:00	smanivanh	P15597

Surrogate	% Recovery	Control Limits
Tetrachloro-m-xylene (TCMX)	121	40 - 134
Decachlorobiphenyl (DCB)	119	13 - 186

Polychlorinated Biphenyls (PCBs) by GC-ECD									
PCB-1016	BRL	µg/L	0.50	0.17	1	8082	06/16/06 1:34	jvogel	Q15728
PCB-1221	BRL	µg/L	1.0	0.33	1	8082	06/16/06 1:34	jvogel	Q15728

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Full Service Analytical & Environmental Solutions

Laboratory Report

6/27/06

Weston Solutions
Attn: Tara Rowland
4917 Waters Edge
Suite 235
Raleigh, NC 27606

Project Name: Durham County Landfill
Project ID: Assessment Monitoring
Sample Matrix: Water

Client Sample ID: P-6
Prism Sample ID: 152776
COC Group: G0606188
Time Collected: 06/06/06 16:45
Time Submitted: 06/07/06 16:30

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
PCB-1232	BRL	µg/L	0.50	0.25	1	8082	06/16/06 1:34	jvogel	Q15728
PCB-1242	BRL	µg/L	1.0	0.36	1	8082	06/16/06 1:34	jvogel	Q15728
PCB-1248	BRL	µg/L	0.50	0.25	1	8082	06/16/06 1:34	jvogel	Q15728
PCB-1254	BRL	µg/L	0.50	0.25	1	8082	06/16/06 1:34	jvogel	Q15728
PCB-1260	BRL	µg/L	0.50	0.26	1	8082	06/16/06 1:34	jvogel	Q15728
Sample Preparation:			900 mL / 10 mL			3510C	06/12/06 9:00	smanivanh	P15598

Surrogate	% Recovery	Control Limits
Tetrachloro-m-xylene (TCMX)	119	30 - 161
Decachlorobiphenyl (DCB)	119	32 - 178

Volatile Organic Compounds by GC/MS

1,1,1,2-Tetrachloroethane	BRL	µg/L	1.0	0.40	1	8260B	06/15/06 20:03	kcampigotto	Q15627
1,1,1-Trichloroethane	BRL	µg/L	1.0	0.45	1	8260B	06/15/06 20:03	kcampigotto	Q15627
1,1,2,2-Tetrachloroethane	BRL	µg/L	1.0	0.30	1	8260B	06/15/06 20:03	kcampigotto	Q15627
1,1,2-Trichloroethane	BRL	µg/L	1.0	0.42	1	8260B	06/15/06 20:03	kcampigotto	Q15627
1,1-Dichloroethane	BRL	µg/L	1.0	0.38	1	8260B	06/15/06 20:03	kcampigotto	Q15627
1,1-Dichloroethene	BRL	µg/L	1.0	0.43	1	8260B	06/15/06 20:03	kcampigotto	Q15627
1,1-Dichloropropene	BRL	µg/L	1.0	0.39	1	8260B	06/15/06 20:03	kcampigotto	Q15627
1,2,3-Trichlorobenzene	BRL	µg/L	2.0	0.57	1	8260B	06/15/06 20:03	kcampigotto	Q15627
1,2,3-Trichloropropane	BRL	µg/L	1.0	0.50	1	8260B	06/15/06 20:03	kcampigotto	Q15627
1,2,4-Trichlorobenzene	BRL	µg/L	1.0	0.42	1	8260B	06/15/06 20:03	kcampigotto	Q15627
1,2-Dibromo-3-chloropropane	BRL	µg/L	2.0	0.56	1	8260B	06/15/06 20:03	kcampigotto	Q15627
1,2-Dibromoethane (EDB)	BRL	µg/L	1.0	0.46	1	8260B	06/15/06 20:03	kcampigotto	Q15627
1,2-Dichlorobenzene	BRL	µg/L	1.0	0.27	1	8260B	06/15/06 20:03	kcampigotto	Q15627
1,2-Dichloroethane	BRL	µg/L	1.0	0.36	1	8260B	06/15/06 20:03	kcampigotto	Q15627
1,2-Dichloropropane	BRL	µg/L	1.0	0.26	1	8260B	06/15/06 20:03	kcampigotto	Q15627
1,3-Dichlorobenzene	BRL	µg/L	1.0	0.22	1	8260B	06/15/06 20:03	kcampigotto	Q15627

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Attn: Tara Rowland
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Project Name: Durham County Landfill
Project ID: Assessment Monitoring
Sample Matrix: Water

Client Sample ID: P-6
Prism Sample ID: 152776
COC Group: G0606188
Time Collected: 06/06/06 16:45
Time Submitted: 06/07/06 16:30

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
1,3-Dichloropropane	BRL	µg/L	1.0	0.26	1	8260B	06/15/06 20:03	kcampigotto	Q15627
1,4-Dichlorobenzene	BRL	µg/L	1.0	0.32	1	8260B	06/15/06 20:03	kcampigotto	Q15627
2,2-Dichloropropane	BRL	µg/L	2.0	0.73	1	8260B	06/15/06 20:03	kcampigotto	Q15627
2-Hexanone	BRL	µg/L	5.0	0.38	1	8260B	06/15/06 20:03	kcampigotto	Q15627
4-Methyl-2-pentanone (MIBK)	BRL	µg/L	5.0	0.32	1	8260B	06/15/06 20:03	kcampigotto	Q15627
Acetone	BRL	µg/L	10	2.5	1	8260B	06/15/06 20:03	kcampigotto	Q15627
Acetonitrile	BRL	µg/L	20	5.0	1	8260B	06/15/06 20:03	kcampigotto	Q15627
Acrolein	BRL	µg/L	100	4.5	1	8260B	06/15/06 20:03	kcampigotto	Q15627
Acrylonitrile	BRL	µg/L	100	0.65	1	8260B	06/15/06 20:03	kcampigotto	Q15627
Allyl chloride	BRL	µg/L	10	5.0	1	8260B	06/15/06 20:03	kcampigotto	Q15627
Benzene	BRL	µg/L	0.50	0.14	1	8260B	06/15/06 20:03	kcampigotto	Q15627
Bromochloromethane	BRL	µg/L	1.0	0.31	1	8260B	06/15/06 20:03	kcampigotto	Q15627
Bromodichloromethane	BRL	µg/L	1.0	0.31	1	8260B	06/15/06 20:03	kcampigotto	Q15627
Bromoform	BRL	µg/L	1.0	0.39	1	8260B	06/15/06 20:03	kcampigotto	Q15627
Bromomethane	BRL	µg/L	3.0	1.1	1	8260B	06/15/06 20:03	kcampigotto	Q15627
Carbon disulfide	BRL	µg/L	5.0	0.71	1	8260B	06/15/06 20:03	kcampigotto	Q15627
Carbon tetrachloride	BRL	µg/L	2.0	0.52	1	8260B	06/15/06 20:03	kcampigotto	Q15627
Chlorobenzene	BRL	µg/L	1.0	0.24	1	8260B	06/15/06 20:03	kcampigotto	Q15627
Chlorodibromomethane	BRL	µg/L	1.0	0.10	1	8260B	06/15/06 20:03	kcampigotto	Q15627
Chloroethane	BRL	µg/L	5.0	1.6	1	8260B	06/15/06 20:03	kcampigotto	Q15627
Chloroform	BRL	µg/L	1.0	0.35	1	8260B	06/15/06 20:03	kcampigotto	Q15627
Chloromethane	BRL	µg/L	2.0	0.47	1	8260B	06/15/06 20:03	kcampigotto	Q15627
Chloroprene	BRL	µg/L	10	5.0	1	8260B	06/15/06 20:03	kcampigotto	Q15627
cis-1,2-Dichloroethene	BRL	µg/L	1.0	0.47	1	8260B	06/15/06 20:03	kcampigotto	Q15627
cis-1,3-Dichloropropene	BRL	µg/L	1.0	0.29	1	8260B	06/15/06 20:03	kcampigotto	Q15627
Dibromomethane	BRL	µg/L	1.0	0.34	1	8260B	06/15/06 20:03	kcampigotto	Q15627
Dichlorodifluoromethane	BRL	µg/L	2.0	0.26	1	8260B	06/15/06 20:03	kcampigotto	Q15627
Ethyl methacrylate	BRL	µg/L	10	5.0	1	8260B	06/15/06 20:03	kcampigotto	Q15627

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NC Drinking Water Cert. No. 37735

Full Service Analytical & Environmental Solutions

Laboratory Report

6/27/06

Weston Solutions
Attn: Tara Rowland
4917 Waters Edge
Suite 235
Raleigh, NC 27606

Project Name: Durham County Landfill
Project ID: Assessment Monitoring
Sample Matrix: Water

Client Sample ID: P-6
Prism Sample ID: 152776
COC Group: G0606188
Time Collected: 06/06/06 16:45
Time Submitted: 06/07/06 16:30

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Ethylbenzene	BRL	µg/L	1.0	0.32	1	8260B	06/15/06 20:03	kcampigotto	Q15627
Isobutyl alcohol	BRL	µg/L	10	5.0	1	8260B	06/15/06 20:03	kcampigotto	Q15627
m,p-Xylenes	BRL	µg/L	2.0	0.51	1	8260B	06/15/06 20:03	kcampigotto	Q15627
Methacrylonitrile	BRL	µg/L	10	5.0	1	8260B	06/15/06 20:03	kcampigotto	Q15627
Methyl ethyl ketone (MEK)	BRL	µg/L	5.0	0.81	1	8260B	06/15/06 20:03	kcampigotto	Q15627
Methyl iodide	BRL	µg/L	5.0	2.0	1	8260B	06/15/06 20:03	kcampigotto	Q15627
Methyl methacrylate	BRL	µg/L	10	5.0	1	8260B	06/15/06 20:03	kcampigotto	Q15627
Methylene chloride	BRL	µg/L	2.0	0.61	1	8260B	06/15/06 20:03	kcampigotto	Q15627
o-Xylene	BRL	µg/L	1.0	0.24	1	8260B	06/15/06 20:03	kcampigotto	Q15627
Propionitrile	BRL	µg/L	10	5.0	1	8260B	06/15/06 20:03	kcampigotto	Q15627
Styrene	BRL	µg/L	1.0	0.22	1	8260B	06/15/06 20:03	kcampigotto	Q15627
Tetrachloroethene	BRL	µg/L	1.0	0.49	1	8260B	06/15/06 20:03	kcampigotto	Q15627
Toluene	BRL	µg/L	1.0	0.39	1	8260B	06/15/06 20:03	kcampigotto	Q15627
trans-1,2-Dichloroethene	BRL	µg/L	2.0	0.56	1	8260B	06/15/06 20:03	kcampigotto	Q15627
trans-1,3-Dichloropropene	BRL	µg/L	1.0	0.38	1	8260B	06/15/06 20:03	kcampigotto	Q15627
trans-1,4-Dichloro-2-butene	BRL	µg/L	10	5.0	1	8260B	06/15/06 20:03	kcampigotto	Q15627
Trichloroethene	BRL	µg/L	2.0	0.52	1	8260B	06/15/06 20:03	kcampigotto	Q15627
Trichlorofluoromethane	BRL	µg/L	2.0	0.65	1	8260B	06/15/06 20:03	kcampigotto	Q15627
Vinyl acetate	BRL	µg/L	20	10	1	8260B	06/15/06 20:03	kcampigotto	Q15627
Vinyl chloride	BRL	µg/L	2.0	0.60	1	8260B	06/15/06 20:03	kcampigotto	Q15627

Surrogate	% Recovery	Control Limits
Toluene-d8	99	75 - 121
Dibromofluoromethane	110	74 - 133
Bromofluorobenzene	102	69 - 139

Semi-volatile Organics by GC/MS

1,2,4,5-Tetrachlorobenzene	BRL	µg/L	10	5.0	1	8270C	06/16/06 4:57	kellot	Q15582

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NC Drinking Water Cert. No. 37735

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Laboratory Report

6/27/06

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Raleigh, NC 27606

Project Name: Durham County Landfill
Project ID: Assessment Monitoring
Sample Matrix: Water

Client Sample ID: P-6
Prism Sample ID: 152776
COC Group: G0606188
Time Collected: 06/06/06 16:45
Time Submitted: 06/07/06 16:30

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
1,3,5-Trinitrobenzene	BRL	µg/L	10	5.0	1	8270C	06/16/06 4:57	kelliot	Q15582
1,3-Dinitrobenzene	BRL	µg/L	10	5.0	1	8270C	06/16/06 4:57	kelliot	Q15582
1,4-Diphenylenediamine	BRL	µg/L	10	5.0	1	8270C	06/16/06 4:57	kelliot	Q15582
1,4-Napthaquinone	BRL	µg/L	10	5.0	1	8270C	06/16/06 4:57	kelliot	Q15582
1-Napthylamine	BRL	µg/L	10	5.0	1	8270C	06/16/06 4:57	kelliot	Q15582
2,3,4,6-Tetrachlorophenol	BRL	µg/L	10	5.0	1	8270C	06/16/06 4:57	kelliot	Q15582
2,4,5-Trichlorophenol	BRL	µg/L	10	2.6	1	8270C	06/16/06 4:57	kelliot	Q15582
2,4,6-Trichlorophenol	BRL	µg/L	10	2.5	1	8270C	06/16/06 4:57	kelliot	Q15582
2,4-Dichlorophenol	BRL	µg/L	10	2.4	1	8270C	06/16/06 4:57	kelliot	Q15582
2,4-Dimethylphenol	BRL	µg/L	10	2.9	1	8270C	06/16/06 4:57	kelliot	Q15582
2,4-Dinitrophenol	BRL	µg/L	10	2.2	1	8270C	06/16/06 4:57	kelliot	Q15582
2,4-Dinitrotoluene	BRL	µg/L	10	1.3	1	8270C	06/16/06 4:57	kelliot	Q15582
2,6-Dichlorophenol	BRL	µg/L	10	5.0	1	8270C	06/16/06 4:57	kelliot	Q15582
2,6-Dinitrotoluene	BRL	µg/L	10	1.3	1	8270C	06/16/06 4:57	kelliot	Q15582
2-Acetylaminofluorene	BRL	µg/L	10	5.0	1	8270C	06/16/06 4:57	kelliot	Q15582
2-Chloronaphthalene	BRL	µg/L	10	2.2	1	8270C	06/16/06 4:57	kelliot	Q15582
2-Chlorophenol	BRL	µg/L	10	2.4	1	8270C	06/16/06 4:57	kelliot	Q15582
2-Methylnaphthalene	BRL	µg/L	10	1.8	1	8270C	06/16/06 4:57	kelliot	Q15582
2-Methylphenol	BRL	µg/L	10	2.8	1	8270C	06/16/06 4:57	kelliot	Q15582
2-Napthylamine	BRL	µg/L	10	5.0	1	8270C	06/16/06 4:57	kelliot	Q15582
2-Nitroaniline	BRL	µg/L	10	2.1	1	8270C	06/16/06 4:57	kelliot	Q15582
2-Nitrophenol	BRL	µg/L	10	3.1	1	8270C	06/16/06 4:57	kelliot	Q15582
3&4-Methylphenol	BRL	µg/L	10	3.7	1	8270C	06/16/06 4:57	kelliot	Q15582
3,3'-Dichlorobenzidine	BRL	µg/L	10	2.5	1	8270C	06/16/06 4:57	kelliot	Q15582
3,3'-Dimethylbenzidine	BRL	µg/L	10	5.0	1	8270C	06/16/06 4:57	kelliot	Q15582
3-Methylcholanthrene	BRL	µg/L	10	5.0	1	8270C	06/16/06 4:57	kelliot	Q15582
3-Nitroaniline	BRL	µg/L	10	1.8	1	8270C	06/16/06 4:57	kelliot	Q15582
4,6-Dinitro-2-methylphenol	BRL	µg/L	10	1.2	1	8270C	06/16/06 4:57	kelliot	Q15582

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NC Certification No. 402
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NC Drinking Water Cert. No. 37735

Full Service Analytical & Environmental Solutions

Laboratory Report

6/27/06

Weston Solutions
Attn: Tara Rowland
4917 Waters Edge
Suite 235
Raleigh, NC 27606

Project Name: Durham County Landfill
Project ID: Assessment Monitoring
Sample Matrix: Water

Client Sample ID: P-6
Prism Sample ID: 152776
COC Group: G0606188
Time Collected: 06/06/06 16:45
Time Submitted: 06/07/06 16:30

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
4-Aminobiphenyl	BRL	µg/L	10	5.0	1	8270C	06/16/06 4:57	kelliot	Q15582
4-Bromophenylphenylether	BRL	µg/L	10	1.5	1	8270C	06/16/06 4:57	kelliot	Q15582
4-Chloro-3-methylphenol	BRL	µg/L	10	1.8	1	8270C	06/16/06 4:57	kelliot	Q15582
4-Chloroaniline	BRL	µg/L	10	2.5	1	8270C	06/16/06 4:57	kelliot	Q15582
4-Chlorophenylphenylether	BRL	µg/L	10	1.9	1	8270C	06/16/06 4:57	kelliot	Q15582
4-Nitroaniline	BRL	µg/L	10	1.8	1	8270C	06/16/06 4:57	kelliot	Q15582
4-Nitrophenol	BRL	µg/L	10	0.55	1	8270C	06/16/06 4:57	kelliot	Q15582
5-Nitro-o-toluidine	BRL	µg/L	10	5.0	1	8270C	06/16/06 4:57	kelliot	Q15582
7,12-Dimethylbenz(a)anthracene	BRL	µg/L	10	5.0	1	8270C	06/16/06 4:57	kelliot	Q15582
Acenaphthene	BRL	µg/L	10	2.2	1	8270C	06/16/06 4:57	kelliot	Q15582
Acenaphthylene	BRL	µg/L	10	2.0	1	8270C	06/16/06 4:57	kelliot	Q15582
Acetophenone	BRL	µg/L	10	5.0	1	8270C	06/16/06 4:57	kelliot	Q15582
Anthracene	BRL	µg/L	10	0.77	1	8270C	06/16/06 4:57	kelliot	Q15582
Benzo(a)anthracene	BRL	µg/L	10	1.2	1	8270C	06/16/06 4:57	kelliot	Q15582
Benzo(a)pyrene	BRL	µg/L	10	0.92	1	8270C	06/16/06 4:57	kelliot	Q15582
Benzo(b)fluoranthene	BRL	µg/L	10	1.1	1	8270C	06/16/06 4:57	kelliot	Q15582
Benzo(g,h,i)perylene	BRL	µg/L	10	1.3	1	8270C	06/16/06 4:57	kelliot	Q15582
Benzo(k)fluoranthene	BRL	µg/L	10	1.1	1	8270C	06/16/06 4:57	kelliot	Q15582
Benzyl alcohol	BRL	µg/L	10	1.8	1	8270C	06/16/06 4:57	kelliot	Q15582
Bis(2-chloroethoxy)methane	BRL	µg/L	10	2.3	1	8270C	06/16/06 4:57	kelliot	Q15582
Bis(2-chloroethyl)ether	BRL	µg/L	10	2.8	1	8270C	06/16/06 4:57	kelliot	Q15582
Bis(2-chloroisopropyl)ether	BRL	µg/L	10	2.8	1	8270C	06/16/06 4:57	kelliot	Q15582
Bis(2-ethylhexyl)phthalate	BRL	µg/L	10	1.2	1	8270C	06/16/06 4:57	kelliot	Q15582
Butylbenzylphthalate	BRL	µg/L	10	0.75	1	8270C	06/16/06 4:57	kelliot	Q15582
Chlorobenzilate	BRL	µg/L	10	5.0	1	8270C	06/16/06 4:57	kelliot	Q15582
Chrysene	BRL	µg/L	10	0.95	1	8270C	06/16/06 4:57	kelliot	Q15582
Di-n-butylphthalate	BRL	µg/L	10	0.86	1	8270C	06/16/06 4:57	kelliot	Q15582
Di-n-octylphthalate	BRL	µg/L	10	2.0	1	8270C	06/16/06 4:57	kelliot	Q15582

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Project Name: Durham County Landfill
Project ID: Assessment Monitoring
Sample Matrix: Water

Client Sample ID: P-6
Prism Sample ID: 152776
COC Group: G0606188
Time Collected: 06/06/06 16:45
Time Submitted: 06/07/06 16:30

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Diallate	BRL	µg/L	10	5.0	1	8270C	06/16/06 4:57	kelliot	Q15582
Dibenzo(a,h)anthracene	BRL	µg/L	10	1.5	1	8270C	06/16/06 4:57	kelliot	Q15582
Dibenzofuran	BRL	µg/L	10	2.2	1	8270C	06/16/06 4:57	kelliot	Q15582
Diethylphthalate	BRL	µg/L	10	1.5	1	8270C	06/16/06 4:57	kelliot	Q15582
Dimethoate	BRL	µg/L	10	5.0	1	8270C	06/16/06 4:57	kelliot	Q15582
Dimethylphthalate	BRL	µg/L	10	2.1	1	8270C	06/16/06 4:57	kelliot	Q15582
Dinoseb	BRL	µg/L	10	5.0	1	8270C	06/16/06 4:57	kelliot	Q15582
Diphenylamine	BRL	µg/L	10	5.0	1	8270C	06/16/06 4:57	kelliot	Q15582
Disulfoton	BRL	µg/L	10	5.0	1	8270C	06/16/06 4:57	kelliot	Q15582
Ethylmethane sulfonate	BRL	µg/L	10	5.0	1	8270C	06/16/06 4:57	kelliot	Q15582
Famphur	BRL	µg/L	10	5.0	1	8270C	06/16/06 4:57	kelliot	Q15582
Fluoranthene	BRL	µg/L	10	0.62	1	8270C	06/16/06 4:57	kelliot	Q15582
Fluorene	BRL	µg/L	10	2.4	1	8270C	06/16/06 4:57	kelliot	Q15582
Hexachlorobenzene	BRL	µg/L	10	1.1	1	8270C	06/16/06 4:57	kelliot	Q15582
Hexachlorobutadiene	BRL	µg/L	10	1.9	1	8270C	06/16/06 4:57	kelliot	Q15582
Hexachlorocyclopentadiene	BRL	µg/L	10	2.4	1	8270C	06/16/06 4:57	kelliot	Q15582
Hexachloroethane	BRL	µg/L	10	2.1	1	8270C	06/16/06 4:57	kelliot	Q15582
Hexachloropropene	BRL	µg/L	10	5.0	1	8270C	06/16/06 4:57	kelliot	Q15582
Indeno(1,2,3-cd)pyrene	BRL	µg/L	10	1.8	1	8270C	06/16/06 4:57	kelliot	Q15582
Isodrin	BRL	µg/L	10	5.0	1	8270C	06/16/06 4:57	kelliot	Q15582
Isophorone	BRL	µg/L	10	3.0	1	8270C	06/16/06 4:57	kelliot	Q15582
Isosafrole	BRL	µg/L	10	5.0	1	8270C	06/16/06 4:57	kelliot	Q15582
Kepone	BRL	µg/L	10	5.0	1	8270C	06/16/06 4:57	kelliot	Q15582
Methapyrilene	BRL	µg/L	10	5.0	1	8270C	06/16/06 4:57	kelliot	Q15582
Methyl parathion	BRL	µg/L	10	5.0	1	8270C	06/16/06 4:57	kelliot	Q15582
Methylmethane sulfonate	BRL	µg/L	10	5.0	1	8270C	06/16/06 4:57	kelliot	Q15582
N-Nitrosodi-n-propylamine	BRL	µg/L	10	2.7	1	8270C	06/16/06 4:57	kelliot	Q15582
N-Nitrosodibutylamine	BRL	µg/L	10	5.0	1	8270C	06/16/06 4:57	kelliot	Q15582

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Project Name: Durham County Landfill
Project ID: Assessment Monitoring
Sample Matrix: Water

Client Sample ID: P-6
Prism Sample ID: 152776
COC Group: G0606188
Time Collected: 06/06/06 16:45
Time Submitted: 06/07/06 16:30

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
N-Nitrosodiethylamine	BRL	µg/L	10	5.0	1	8270C	06/16/06 4:57	kelliot	Q15582
N-Nitrosodimethylamine	BRL	µg/L	10	1.0	1	8270C	06/16/06 4:57	kelliot	Q15582
N-Nitrosodimethylethylamine	BRL	µg/L	10	5.0	1	8270C	06/16/06 4:57	kelliot	Q15582
N-Nitrosodiphenylamine	BRL	µg/L	10	1.5	1	8270C	06/16/06 4:57	kelliot	Q15582
n-Nitrosopiperidine	BRL	µg/L	10	5.0	1	8270C	06/16/06 4:57	kelliot	Q15582
N-Nitrosopyrrolidine	BRL	µg/L	10	5.0	1	8270C	06/16/06 4:57	kelliot	Q15582
Naphthalene	BRL	µg/L	10	1.9	1	8270C	06/16/06 4:57	kelliot	Q15582
Nitrobenzene	BRL	µg/L	10	2.4	1	8270C	06/16/06 4:57	kelliot	Q15582
o,o,o-Triethylphosphorthioate	BRL	µg/L	10	5.0	1	8270C	06/16/06 4:57	kelliot	Q15582
o-Toluidine	BRL	µg/L	10	5.0	1	8270C	06/16/06 4:57	kelliot	Q15582
p-Dimethylaminoazobenzene	BRL	µg/L	10	5.0	1	8270C	06/16/06 4:57	kelliot	Q15582
Pentachlorobenzene	BRL	µg/L	10	5.0	1	8270C	06/16/06 4:57	kelliot	Q15582
Pentachloronitrobenzene	BRL	µg/L	10	5.0	1	8270C	06/16/06 4:57	kelliot	Q15582
Pentachlorophenol	BRL	µg/L	10	0.65	1	8270C	06/16/06 4:57	kelliot	Q15582
Phenacetin	BRL	µg/L	10	5.0	1	8270C	06/16/06 4:57	kelliot	Q15582
Phenanthrene	BRL	µg/L	10	0.58	1	8270C	06/16/06 4:57	kelliot	Q15582
Phenol	BRL	µg/L	10	3.8	1	8270C	06/16/06 4:57	kelliot	Q15582
Phorate	BRL	µg/L	10	5.0	1	8270C	06/16/06 4:57	kelliot	Q15582
Pronamide	BRL	µg/L	10	5.0	1	8270C	06/16/06 4:57	kelliot	Q15582
Pyrene	BRL	µg/L	10	1.1	1	8270C	06/16/06 4:57	kelliot	Q15582
Safrole	BRL	µg/L	10	5.0	1	8270C	06/16/06 4:57	kelliot	Q15582
Thionazin	BRL	µg/L	10	5.0	1	8270C	06/16/06 4:57	kelliot	Q15582

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Project Name: Durham County Landfill
Project ID: Assessment Monitoring
Sample Matrix: Water

Client Sample ID: P-6
Prism Sample ID: 152776
COC Group: G0606188
Time Collected: 06/06/06 16:45
Time Submitted: 06/07/06 16:30

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Sample Preparation:			1000 mL /		1 mL	3510C	06/10/06 9:00	smanivanh	P15587

Surrogate	% Recovery	Control Limits
Terphenyl-d14	113	41 - 136
Phenol-d5	14	10 - 78
Nitrobenzene-d5	94	13 - 107
2-Fluorophenol	31	10 - 75
2-Fluorobiphenyl	95	27 - 107
2,4,6-Tribromophenol	105	38 - 117

Cyanide by Colorimetric Method									
Cyanide, Total	[redacted]	mg/L	0.0020	0.0016	1	9014	06/16/06 11:16	cmatthews	Q15692
Sample Preparation:			500 mL /		500 mL	9010	06/15/06 12:00	cmatthews	P15643
Sulfide by Iodometric Method									
Sulfide	BRL	mg/L	2.0	0.094	1	376.1	06/12/06 9:40	cmatthews	Q15505

Sample Comment(s):

BRL = Below Reporting Limit
J = Estimated value between the Reporting Limit and the MDL
The results in this report relate only to the samples submitted for analysis and meet state certification requirements other than NELAC certification except for those instances indicated in the case narrative and/or test comments.

Angela D. Overcash, V.P. Laboratory Services

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Weston Solutions
Attn: Tara Rowland
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Raleigh, NC 27606

Project Name: Durham County Landfill
Project ID: Assessment Monitoring
Sample Matrix: Water

Client Sample ID: MW-7R
Prism Sample ID: 152777
COC Group: G0606188
Time Collected: 06/06/06 18:20
Time Submitted: 06/07/06 16:30

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Organochlorine Pesticides and PCBs by GC/ECD									
4,4'-DDD	BRL	µg/L	0.050	0.027	1	8081A	06/16/06 2:16	jvogel	Q15726
4,4'-DDE	BRL	µg/L	0.050	0.012	1	8081A	06/16/06 2:16	jvogel	Q15726
4,4'-DDT	BRL	µg/L	0.050	0.036	1	8081A	06/16/06 2:16	jvogel	Q15726
4,4'-Methoxychlor	BRL	µg/L	0.050	0.045	1	8081A	06/16/06 2:16	jvogel	Q15726
a-BHC	BRL	µg/L	0.050	0.010	1	8081A	06/16/06 2:16	jvogel	Q15726
Aldrin	BRL	µg/L	0.050	0.018	1	8081A	06/16/06 2:16	jvogel	Q15726
b-BHC	BRL	µg/L	0.050	0.021	1	8081A	06/16/06 2:16	jvogel	Q15726
Chlordane	BRL	µg/L	0.50	0.10	1	8081A	06/16/06 2:16	jvogel	Q15726
d-BHC	BRL	µg/L	0.050	0.015	1	8081A	06/16/06 2:16	jvogel	Q15726
Dieldrin	BRL	µg/L	0.050	0.013	1	8081A	06/16/06 2:16	jvogel	Q15726
Endosulfan I	BRL	µg/L	0.050	0.010	1	8081A	06/16/06 2:16	jvogel	Q15726
Endosulfan II	BRL	µg/L	0.050	0.019	1	8081A	06/16/06 2:16	jvogel	Q15726
Endosulfan Sulfate	BRL	µg/L	0.050	0.024	1	8081A	06/16/06 2:16	jvogel	Q15726
Endrin	BRL	µg/L	0.050	0.027	1	8081A	06/16/06 2:16	jvogel	Q15726
Endrin Aldehyde	BRL	µg/L	0.050	0.014	1	8081A	06/16/06 2:16	jvogel	Q15726
g-BHC	BRL	µg/L	0.050	0.021	1	8081A	06/16/06 2:16	jvogel	Q15726
Heptachlor	BRL	µg/L	0.050	0.022	1	8081A	06/16/06 2:16	jvogel	Q15726
Heptachlor Epoxide	BRL	µg/L	0.050	0.018	1	8081A	06/16/06 2:16	jvogel	Q15726
Toxaphene	BRL	µg/L	0.50	0.23	1	8081A	06/16/06 2:16	jvogel	Q15726
Sample Preparation:			1000 mL / 10 mL			3510C	06/12/06 9:00	smanivanh	P15597

Surrogate	% Recovery	Control Limits
Tetrachloro-m-xylene (TCMX)	102	40 - 134
Decachlorobiphenyl (DCB)	99	13 - 186

Polychlorinated Biphenyls (PCBs) by GC-ECD									
PCB-1016	BRL	µg/L	0.50	0.17	1	8082	06/16/06 2:16	jvogel	Q15728
PCB-1221	BRL	µg/L	1.0	0.33	1	8082	06/16/06 2:16	jvogel	Q15728

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Laboratory Report

06/27/06

Weston Solutions
Attn: Tara Rowland
4917 Waters Edge
Suite 235
Raleigh, NC 27606

Project Name: Durham County Landfill
Project ID: Assessment Monitoring
Sample Matrix: Water

Client Sample ID: MW-7R
Prism Sample ID: 152777
COC Group: G0606188
Time Collected: 06/06/06 18:20
Time Submitted: 06/07/06 16:30

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
PCB-1232	BRL	µg/L	0.50	0.25	1	8082	06/16/06 2:16	jvogel	Q15728
PCB-1242	BRL	µg/L	1.0	0.36	1	8082	06/16/06 2:16	jvogel	Q15728
PCB-1248	BRL	µg/L	0.50	0.25	1	8082	06/16/06 2:16	jvogel	Q15728
PCB-1254	BRL	µg/L	0.50	0.25	1	8082	06/16/06 2:16	jvogel	Q15728
PCB-1260	BRL	µg/L	0.50	0.26	1	8082	06/16/06 2:16	jvogel	Q15728
Sample Preparation:			1000	mL /	10 mL	3510C	06/12/06 9:00	smanivanh	P15598

Surrogate	% Recovery	Control Limits
Tetrachloro-m-xylene (TCMX)	100	30 - 161
Decachlorobiphenyl (DCB)	99	32 - 178

Volatile Organic Compounds by GC/MS

1,1,1,2-Tetrachloroethane	BRL	µg/L	1.0	0.40	1	8260B	06/15/06 20:28	kcampigotto	Q15627
1,1,1-Trichloroethane	BRL	µg/L	1.0	0.45	1	8260B	06/15/06 20:28	kcampigotto	Q15627
1,1,2,2-Tetrachloroethane	BRL	µg/L	1.0	0.30	1	8260B	06/15/06 20:28	kcampigotto	Q15627
1,1,2-Trichloroethane	BRL	µg/L	1.0	0.42	1	8260B	06/15/06 20:28	kcampigotto	Q15627
1,1-Dichloroethane	BRL	µg/L	1.0	0.38	1	8260B	06/15/06 20:28	kcampigotto	Q15627
1,1-Dichloroethene	BRL	µg/L	1.0	0.43	1	8260B	06/15/06 20:28	kcampigotto	Q15627
1,1-Dichloropropene	BRL	µg/L	1.0	0.39	1	8260B	06/15/06 20:28	kcampigotto	Q15627
1,2,3-Trichlorobenzene	BRL	µg/L	2.0	0.57	1	8260B	06/15/06 20:28	kcampigotto	Q15627
1,2,3-Trichloropropane	BRL	µg/L	1.0	0.50	1	8260B	06/15/06 20:28	kcampigotto	Q15627
1,2,4-Trichlorobenzene	BRL	µg/L	1.0	0.42	1	8260B	06/15/06 20:28	kcampigotto	Q15627
1,2-Dibromo-3-chloropropane	BRL	µg/L	2.0	0.56	1	8260B	06/15/06 20:28	kcampigotto	Q15627
1,2-Dibromoethane (EDB)	BRL	µg/L	1.0	0.46	1	8260B	06/15/06 20:28	kcampigotto	Q15627
1,2-Dichlorobenzene	BRL	µg/L	1.0	0.27	1	8260B	06/15/06 20:28	kcampigotto	Q15627
1,2-Dichloroethane	BRL	µg/L	1.0	0.36	1	8260B	06/15/06 20:28	kcampigotto	Q15627
1,2-Dichloropropane	BRL	µg/L	1.0	0.26	1	8260B	06/15/06 20:28	kcampigotto	Q15627
1,3-Dichlorobenzene	BRL	µg/L	1.0	0.22	1	8260B	06/15/06 20:28	kcampigotto	Q15627

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SC Certification No. 99012
NC Drinking Water Cert. No. 37735

Full Service Analytical & Environmental Solutions

Laboratory Report

06/27/06

Weston Solutions
Attn: Tara Rowland
4917 Waters Edge
Suite 235
Raleigh, NC 27606

Project Name: Durham County Landfill
Project ID: Assessment Monitoring
Sample Matrix: Water

Client Sample ID: MW-7R
Prism Sample ID: 152777
COC Group: G0606188
Time Collected: 06/06/06 18:20
Time Submitted: 06/07/06 16:30

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
1,3-Dichloropropane	BRL	µg/L	1.0	0.26	1	8260B	06/15/06 20:28	kcampigotto	Q15627
1,4-Dichlorobenzene	BRL	µg/L	1.0	0.32	1	8260B	06/15/06 20:28	kcampigotto	Q15627
2,2-Dichloropropane	BRL	µg/L	2.0	0.73	1	8260B	06/15/06 20:28	kcampigotto	Q15627
2-Hexanone	BRL	µg/L	5.0	0.38	1	8260B	06/15/06 20:28	kcampigotto	Q15627
4-Methyl-2-pentanone (MIBK)	BRL	µg/L	5.0	0.32	1	8260B	06/15/06 20:28	kcampigotto	Q15627
Acetone	BRL	µg/L	10	2.5	1	8260B	06/15/06 20:28	kcampigotto	Q15627
Acetonitrile	BRL	µg/L	20	5.0	1	8260B	06/15/06 20:28	kcampigotto	Q15627
Acrolein	BRL	µg/L	100	4.5	1	8260B	06/15/06 20:28	kcampigotto	Q15627
Acrylonitrile	BRL	µg/L	100	0.65	1	8260B	06/15/06 20:28	kcampigotto	Q15627
Allyl chloride	BRL	µg/L	10	5.0	1	8260B	06/15/06 20:28	kcampigotto	Q15627
Benzene	BRL	µg/L	0.50	0.14	1	8260B	06/15/06 20:28	kcampigotto	Q15627
Bromochloromethane	BRL	µg/L	1.0	0.31	1	8260B	06/15/06 20:28	kcampigotto	Q15627
Bromodichloromethane	BRL	µg/L	1.0	0.31	1	8260B	06/15/06 20:28	kcampigotto	Q15627
Bromoform	BRL	µg/L	1.0	0.39	1	8260B	06/15/06 20:28	kcampigotto	Q15627
Bromomethane	BRL	µg/L	3.0	1.1	1	8260B	06/15/06 20:28	kcampigotto	Q15627
Carbon disulfide	BRL	µg/L	5.0	0.71	1	8260B	06/15/06 20:28	kcampigotto	Q15627
Carbon tetrachloride	BRL	µg/L	2.0	0.52	1	8260B	06/15/06 20:28	kcampigotto	Q15627
Chlorobenzene	BRL	µg/L	1.0	0.24	1	8260B	06/15/06 20:28	kcampigotto	Q15627
Chlorodibromomethane	BRL	µg/L	1.0	0.10	1	8260B	06/15/06 20:28	kcampigotto	Q15627
Chloroethane	BRL	µg/L	5.0	1.6	1	8260B	06/15/06 20:28	kcampigotto	Q15627
Chloroform	BRL	µg/L	1.0	0.35	1	8260B	06/15/06 20:28	kcampigotto	Q15627
Chloromethane	BRL	µg/L	2.0	0.47	1	8260B	06/15/06 20:28	kcampigotto	Q15627
Chloroprene	BRL	µg/L	10	5.0	1	8260B	06/15/06 20:28	kcampigotto	Q15627
cis-1,2-Dichloroethene	BRL	µg/L	1.0	0.47	1	8260B	06/15/06 20:28	kcampigotto	Q15627
cis-1,3-Dichloropropene	BRL	µg/L	1.0	0.29	1	8260B	06/15/06 20:28	kcampigotto	Q15627
Dibromomethane	BRL	µg/L	1.0	0.34	1	8260B	06/15/06 20:28	kcampigotto	Q15627
Dichlorodifluoromethane	BRL	µg/L	2.0	0.26	1	8260B	06/15/06 20:28	kcampigotto	Q15627
Ethyl methacrylate	BRL	µg/L	10	5.0	1	8260B	06/15/06 20:28	kcampigotto	Q15627

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NC Drinking Water Cert. No. 37735

Full Service Analytical & Environmental Solutions

Laboratory Report

06/27/06

Weston Solutions
Attn: Tara Rowland
4917 Waters Edge
Suite 235
Raleigh, NC 27606

Project Name: Durham County Landfill
Project ID: Assessment Monitoring
Sample Matrix: Water

Client Sample ID: MW-7R
Prism Sample ID: 152777
COC Group: G0606188
Time Collected: 06/06/06 18:20
Time Submitted: 06/07/06 16:30

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Ethylbenzene	BRL	µg/L	1.0	0.32	1	8260B	06/15/06 20:28	kcampigotto	Q15627
Isobutyl alcohol	BRL	µg/L	10	5.0	1	8260B	06/15/06 20:28	kcampigotto	Q15627
m,p-Xylenes	BRL	µg/L	2.0	0.51	1	8260B	06/15/06 20:28	kcampigotto	Q15627
Methacrylonitrile	BRL	µg/L	10	5.0	1	8260B	06/15/06 20:28	kcampigotto	Q15627
Methyl ethyl ketone (MEK)	BRL	µg/L	5.0	0.81	1	8260B	06/15/06 20:28	kcampigotto	Q15627
Methyl iodide	BRL	µg/L	5.0	2.0	1	8260B	06/15/06 20:28	kcampigotto	Q15627
Methyl methacrylate	BRL	µg/L	10	5.0	1	8260B	06/15/06 20:28	kcampigotto	Q15627
Methylene chloride	BRL	µg/L	2.0	0.61	1	8260B	06/15/06 20:28	kcampigotto	Q15627
o-Xylene	BRL	µg/L	1.0	0.24	1	8260B	06/15/06 20:28	kcampigotto	Q15627
Propionitrile	BRL	µg/L	10	5.0	1	8260B	06/15/06 20:28	kcampigotto	Q15627
Styrene	BRL	µg/L	1.0	0.22	1	8260B	06/15/06 20:28	kcampigotto	Q15627
Tetrachloroethene	BRL	µg/L	1.0	0.49	1	8260B	06/15/06 20:28	kcampigotto	Q15627
Toluene	BRL	µg/L	1.0	0.39	1	8260B	06/15/06 20:28	kcampigotto	Q15627
trans-1,2-Dichloroethene	BRL	µg/L	2.0	0.56	1	8260B	06/15/06 20:28	kcampigotto	Q15627
trans-1,3-Dichloropropene	BRL	µg/L	1.0	0.38	1	8260B	06/15/06 20:28	kcampigotto	Q15627
trans-1,4-Dichloro-2-butene	BRL	µg/L	10	5.0	1	8260B	06/15/06 20:28	kcampigotto	Q15627
Trichloroethene	BRL	µg/L	2.0	0.52	1	8260B	06/15/06 20:28	kcampigotto	Q15627
Trichlorofluoromethane	BRL	µg/L	2.0	0.65	1	8260B	06/15/06 20:28	kcampigotto	Q15627
Vinyl acetate	BRL	µg/L	20	10	1	8260B	06/15/06 20:28	kcampigotto	Q15627
Vinyl chloride	BRL	µg/L	2.0	0.60	1	8260B	06/15/06 20:28	kcampigotto	Q15627

Surrogate	% Recovery	Control Limits
Toluene-d8	100	75 - 121
Dibromofluoromethane	109	74 - 133
Bromofluorobenzene	103	69 - 139

Semi-volatile Organics by GC/MS

1,2,4,5-Tetrachlorobenzene	BRL	µg/L	10	5.0	1	8270C	06/16/06 10:09	kelliot	Q15582

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Full Service Analytical & Environmental Solutions

Laboratory Report

06/27/06

Weston Solutions
Attn: Tara Rowland
4917 Waters Edge
Suite 235
Raleigh, NC 27606

Project Name: Durham County Landfill
Project ID: Assessment Monitoring
Sample Matrix: Water

Client Sample ID: MW-7R
Prism Sample ID: 152777
COC Group: G0606188
Time Collected: 06/06/06 18:20
Time Submitted: 06/07/06 16:30

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
1,3,5-Trinitrobenzene	**BRL**	µg/L	10	5.0	1	8270C	06/16/06 10:09	kelliot	Q15582
1,3-Dinitrobenzene	**BRL**	µg/L	10	5.0	1	8270C	06/16/06 10:09	kelliot	Q15582
1,4-Diphenylenediamine	**BRL**	µg/L	10	5.0	1	8270C	06/16/06 10:09	kelliot	Q15582
1,4-Napthaquinone	**BRL**	µg/L	10	5.0	1	8270C	06/16/06 10:09	kelliot	Q15582
1-Napthylamine	**BRL**	µg/L	10	5.0	1	8270C	06/16/06 10:09	kelliot	Q15582
2,3,4,6-Tetrachlorophenol	**BRL**	µg/L	10	5.0	1	8270C	06/16/06 10:09	kelliot	Q15582
2,4,5-Trichlorophenol	**BRL**	µg/L	10	2.6	1	8270C	06/16/06 10:09	kelliot	Q15582
2,4,6-Trichlorophenol	**BRL**	µg/L	10	2.5	1	8270C	06/16/06 10:09	kelliot	Q15582
2,4-Dichlorophenol	**BRL**	µg/L	10	2.4	1	8270C	06/16/06 10:09	kelliot	Q15582
2,4-Dimethylphenol	**BRL**	µg/L	10	2.9	1	8270C	06/16/06 10:09	kelliot	Q15582
2,4-Dinitrophenol	**BRL**	µg/L	10	2.2	1	8270C	06/16/06 10:09	kelliot	Q15582
2,4-Dinitrotoluene	**BRL**	µg/L	10	1.3	1	8270C	06/16/06 10:09	kelliot	Q15582
2,6-Dichlorophenol	**BRL**	µg/L	10	5.0	1	8270C	06/16/06 10:09	kelliot	Q15582
2,6-Dinitrotoluene	**BRL**	µg/L	10	1.3	1	8270C	06/16/06 10:09	kelliot	Q15582
2-Acetylaminofluorene	**BRL**	µg/L	10	5.0	1	8270C	06/16/06 10:09	kelliot	Q15582
2-Chloronaphthalene	**BRL**	µg/L	10	2.2	1	8270C	06/16/06 10:09	kelliot	Q15582
2-Chlorophenol	**BRL**	µg/L	10	2.4	1	8270C	06/16/06 10:09	kelliot	Q15582
2-Methylnaphthalene	**BRL**	µg/L	10	1.8	1	8270C	06/16/06 10:09	kelliot	Q15582
2-Methylphenol	**BRL**	µg/L	10	2.8	1	8270C	06/16/06 10:09	kelliot	Q15582
2-Napthylamine	**BRL**	µg/L	10	5.0	1	8270C	06/16/06 10:09	kelliot	Q15582
2-Nitroaniline	**BRL**	µg/L	10	2.1	1	8270C	06/16/06 10:09	kelliot	Q15582
2-Nitrophenol	**BRL**	µg/L	10	3.1	1	8270C	06/16/06 10:09	kelliot	Q15582
3&4-Methylphenol	**BRL**	µg/L	10	3.7	1	8270C	06/16/06 10:09	kelliot	Q15582
3,3'-Dichlorobenzidine	**BRL**	µg/L	10	2.5	1	8270C	06/16/06 10:09	kelliot	Q15582
3,3'-Dimethylbenzidine	**BRL**	µg/L	10	5.0	1	8270C	06/16/06 10:09	kelliot	Q15582
3-Methylcholanthrene	**BRL**	µg/L	10	5.0	1	8270C	06/16/06 10:09	kelliot	Q15582
3-Nitroaniline	**BRL**	µg/L	10	1.8	1	8270C	06/16/06 10:09	kelliot	Q15582
4,6-Dinitro-2-methylphenol	**BRL**	µg/L	10	1.2	1	8270C	06/16/06 10:09	kelliot	Q15582

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Full Service Analytical & Environmental Solutions

Laboratory Report

06/27/06

Weston Solutions
Attn: Tara Rowland
4917 Waters Edge
Suite 235
Raleigh, NC 27606

Project Name: Durham County Landfill
Project ID: Assessment Monitoring
Sample Matrix: Water

Client Sample ID: MW-7R
Prism Sample ID: 152777
COC Group: G0606188
Time Collected: 06/06/06 18:20
Time Submitted: 06/07/06 16:30

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
4-Aminobiphenyl	BRL	µg/L	10	5.0	1	8270C	06/16/06 10:09	kelliot	Q15582
4-Bromophenylphenylether	BRL	µg/L	10	1.5	1	8270C	06/16/06 10:09	kelliot	Q15582
4-Chloro-3-methylphenol	BRL	µg/L	10	1.8	1	8270C	06/16/06 10:09	kelliot	Q15582
4-Chloroaniline	BRL	µg/L	10	2.5	1	8270C	06/16/06 10:09	kelliot	Q15582
4-Chlorophenylphenylether	BRL	µg/L	10	1.9	1	8270C	06/16/06 10:09	kelliot	Q15582
4-Nitroaniline	BRL	µg/L	10	1.8	1	8270C	06/16/06 10:09	kelliot	Q15582
4-Nitrophenol	BRL	µg/L	10	0.55	1	8270C	06/16/06 10:09	kelliot	Q15582
5-Nitro-o-toluidine	BRL	µg/L	10	5.0	1	8270C	06/16/06 10:09	kelliot	Q15582
7,12-Dimethylbenz(a)anthracen	BRL	µg/L	10	5.0	1	8270C	06/16/06 10:09	kelliot	Q15582
Acenaphthene	BRL	µg/L	10	2.2	1	8270C	06/16/06 10:09	kelliot	Q15582
Acenaphthylene	BRL	µg/L	10	2.0	1	8270C	06/16/06 10:09	kelliot	Q15582
Acetophenone	BRL	µg/L	10	5.0	1	8270C	06/16/06 10:09	kelliot	Q15582
Anthracene	BRL	µg/L	10	0.77	1	8270C	06/16/06 10:09	kelliot	Q15582
Benzo(a)anthracene	BRL	µg/L	10	1.2	1	8270C	06/16/06 10:09	kelliot	Q15582
Benzo(a)pyrene	BRL	µg/L	10	0.92	1	8270C	06/16/06 10:09	kelliot	Q15582
Benzo(b)fluoranthene	BRL	µg/L	10	1.1	1	8270C	06/16/06 10:09	kelliot	Q15582
Benzo(g,h,i)perylene	BRL	µg/L	10	1.3	1	8270C	06/16/06 10:09	kelliot	Q15582
Benzo(k)fluoranthene	BRL	µg/L	10	1.1	1	8270C	06/16/06 10:09	kelliot	Q15582
Benzyl alcohol	BRL	µg/L	10	1.8	1	8270C	06/16/06 10:09	kelliot	Q15582
Bis(2-chloroethoxy)methane	BRL	µg/L	10	2.3	1	8270C	06/16/06 10:09	kelliot	Q15582
Bis(2-chloroethyl)ether	BRL	µg/L	10	2.8	1	8270C	06/16/06 10:09	kelliot	Q15582
Bis(2-chloroisopropyl)ether	BRL	µg/L	10	2.8	1	8270C	06/16/06 10:09	kelliot	Q15582
Bis(2-ethylhexyl)phthalate	BRL	µg/L	10	1.2	1	8270C	06/16/06 10:09	kelliot	Q15582
Butylbenzylphthalate	BRL	µg/L	10	0.75	1	8270C	06/16/06 10:09	kelliot	Q15582
Chlorobenzilate	BRL	µg/L	10	5.0	1	8270C	06/16/06 10:09	kelliot	Q15582
Chrysene	BRL	µg/L	10	0.95	1	8270C	06/16/06 10:09	kelliot	Q15582
Di-n-butylphthalate	BRL	µg/L	10	0.86	1	8270C	06/16/06 10:09	kelliot	Q15582
Di-n-octylphthalate	BRL	µg/L	10	2.0	1	8270C	06/16/06 10:09	kelliot	Q15582

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NC Certification No. 402
SC Certification No. 99012
NC Drinking Water Cert. No. 37735

Full Service Analytical & Environmental Solutions

Laboratory Report

06/27/06

Weston Solutions
Attn: Tara Rowland
4917 Waters Edge
Suite 235
Raleigh, NC 27606

Project Name: Durham County Landfill
Project ID: Assessment Monitoring
Sample Matrix: Water

Client Sample ID: MW-7R
Prism Sample ID: 152777
COC Group: G0606188
Time Collected: 06/06/06 18:20
Time Submitted: 06/07/06 16:30

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Diallate	BRL	µg/L	10	5.0	1	8270C	06/16/06 10:09	kelliot	Q15582
Dibenzo(a,h)anthracene	BRL	µg/L	10	1.5	1	8270C	06/16/06 10:09	kelliot	Q15582
Dibenzofuran	BRL	µg/L	10	2.2	1	8270C	06/16/06 10:09	kelliot	Q15582
Diethylphthalate	BRL	µg/L	10	1.5	1	8270C	06/16/06 10:09	kelliot	Q15582
Dimethoate	BRL	µg/L	10	5.0	1	8270C	06/16/06 10:09	kelliot	Q15582
Dimethylphthalate	BRL	µg/L	10	2.1	1	8270C	06/16/06 10:09	kelliot	Q15582
Dinoseb	BRL	µg/L	10	5.0	1	8270C	06/16/06 10:09	kelliot	Q15582
Diphenylamine	BRL	µg/L	10	5.0	1	8270C	06/16/06 10:09	kelliot	Q15582
Disulfoton	BRL	µg/L	10	5.0	1	8270C	06/16/06 10:09	kelliot	Q15582
Ethylmethane sulfonate	BRL	µg/L	10	5.0	1	8270C	06/16/06 10:09	kelliot	Q15582
Famphur	BRL	µg/L	10	5.0	1	8270C	06/16/06 10:09	kelliot	Q15582
Fluoranthene	BRL	µg/L	10	0.62	1	8270C	06/16/06 10:09	kelliot	Q15582
Fluorene	BRL	µg/L	10	2.4	1	8270C	06/16/06 10:09	kelliot	Q15582
Hexachlorobenzene	BRL	µg/L	10	1.1	1	8270C	06/16/06 10:09	kelliot	Q15582
Hexachlorobutadiene	BRL	µg/L	10	1.9	1	8270C	06/16/06 10:09	kelliot	Q15582
Hexachlorocyclopentadiene	BRL	µg/L	10	2.4	1	8270C	06/16/06 10:09	kelliot	Q15582
Hexachloroethane	BRL	µg/L	10	2.1	1	8270C	06/16/06 10:09	kelliot	Q15582
Hexachloropropene	BRL	µg/L	10	5.0	1	8270C	06/16/06 10:09	kelliot	Q15582
Indeno(1,2,3-cd)pyrene	BRL	µg/L	10	1.8	1	8270C	06/16/06 10:09	kelliot	Q15582
Isodrin	BRL	µg/L	10	5.0	1	8270C	06/16/06 10:09	kelliot	Q15582
Isophorone	BRL	µg/L	10	3.0	1	8270C	06/16/06 10:09	kelliot	Q15582
Isosafrole	BRL	µg/L	10	5.0	1	8270C	06/16/06 10:09	kelliot	Q15582
Kepone	BRL	µg/L	10	5.0	1	8270C	06/16/06 10:09	kelliot	Q15582
Methapyrilene	BRL	µg/L	10	5.0	1	8270C	06/16/06 10:09	kelliot	Q15582
Methyl parathion	BRL	µg/L	10	5.0	1	8270C	06/16/06 10:09	kelliot	Q15582
Methylmethane sulfonate	BRL	µg/L	10	5.0	1	8270C	06/16/06 10:09	kelliot	Q15582
N-Nitrosodi-n-propylamine	BRL	µg/L	10	2.7	1	8270C	06/16/06 10:09	kelliot	Q15582
N-Nitrosodibutylamine	BRL	µg/L	10	5.0	1	8270C	06/16/06 10:09	kelliot	Q15582

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NC Drinking Water Cert. No. 37735

Full Service Analytical & Environmental Solutions

Laboratory Report

06/27/06

Weston Solutions
Attn: Tara Rowland
4917 Waters Edge
Suite 235
Raleigh, NC 27606

Project Name: Durham County Landfill
Project ID: Assessment Monitoring
Sample Matrix: Water

Client Sample ID: MW-7R
Prism Sample ID: 152777
COC Group: G0606188
Time Collected: 06/06/06 18:20
Time Submitted: 06/07/06 16:30

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
N-Nitrosodiethylamine	BRL	µg/L	10	5.0	1	8270C	06/16/06 10:09	kelliot	Q15582
N-Nitrosodimethylamine	BRL	µg/L	10	1.0	1	8270C	06/16/06 10:09	kelliot	Q15582
N-Nitrosodimethylethylamine	BRL	µg/L	10	5.0	1	8270C	06/16/06 10:09	kelliot	Q15582
N-Nitrosodiphenylamine	BRL	µg/L	10	1.5	1	8270C	06/16/06 10:09	kelliot	Q15582
n-Nitrosopiperidine	BRL	µg/L	10	5.0	1	8270C	06/16/06 10:09	kelliot	Q15582
N-Nitrosopyrrolidine	BRL	µg/L	10	5.0	1	8270C	06/16/06 10:09	kelliot	Q15582
Naphthalene	BRL	µg/L	10	1.9	1	8270C	06/16/06 10:09	kelliot	Q15582
Nitrobenzene	BRL	µg/L	10	2.4	1	8270C	06/16/06 10:09	kelliot	Q15582
o,o,o-Triethylphosphorthioate	BRL	µg/L	10	5.0	1	8270C	06/16/06 10:09	kelliot	Q15582
o-Toluidine	BRL	µg/L	10	5.0	1	8270C	06/16/06 10:09	kelliot	Q15582
p-Dimethylaminoazobenzene	BRL	µg/L	10	5.0	1	8270C	06/16/06 10:09	kelliot	Q15582
Pentachlorobenzene	BRL	µg/L	10	5.0	1	8270C	06/16/06 10:09	kelliot	Q15582
Pentachloronitrobenzene	BRL	µg/L	10	5.0	1	8270C	06/16/06 10:09	kelliot	Q15582
Pentachlorophenol	BRL	µg/L	10	0.65	1	8270C	06/16/06 10:09	kelliot	Q15582
Phenacetin	BRL	µg/L	10	5.0	1	8270C	06/16/06 10:09	kelliot	Q15582
Phenanthrene	BRL	µg/L	10	0.58	1	8270C	06/16/06 10:09	kelliot	Q15582
Phenol	BRL	µg/L	10	3.8	1	8270C	06/16/06 10:09	kelliot	Q15582
Phorate	BRL	µg/L	10	5.0	1	8270C	06/16/06 10:09	kelliot	Q15582
Pronamide	BRL	µg/L	10	5.0	1	8270C	06/16/06 10:09	kelliot	Q15582
Pyrene	BRL	µg/L	10	1.1	1	8270C	06/16/06 10:09	kelliot	Q15582
Safrole	BRL	µg/L	10	5.0	1	8270C	06/16/06 10:09	kelliot	Q15582
Thionazin	BRL	µg/L	10	5.0	1	8270C	06/16/06 10:09	kelliot	Q15582

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Full Service Analytical & Environmental Solutions

Laboratory Report

06/27/06

Weston Solutions
Attn: Tara Rowland
4917 Waters Edge
Suite 235
Raleigh, NC 27606

Project Name: Durham County Landfill
Project ID: Assessment Monitoring
Sample Matrix: Water

Client Sample ID: MW-7R
Prism Sample ID: 152777
COC Group: G0606188
Time Collected: 06/06/06 18:20
Time Submitted: 06/07/06 16:30

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Sample Preparation:			1000 mL /		1 mL	3510C	06/10/06 9:00	smanivanh	P15587

Surrogate	% Recovery	Control Limits
Terphenyl-d14	110	41 - 136
Phenol-d5	14	10 - 78
Nitrobenzene-d5	96	13 - 107
2-Fluorophenol	27	10 - 75
2-Fluorobiphenyl	96	27 - 107
2,4,6-Tribromophenol	104	38 - 117

Cyanide by Colorimetric Method									
Cyanide, Total	**BRL**	mg/L	0.0020	0.0016	1	9014	06/19/06 15:53	cmatthews	Q15722
Sample Preparation:			500 mL /		500 mL	9010	06/19/06 9:45	cmatthews	P15651
Sulfide by Iodometric Method									
Sulfide	**BRL**	mg/L	2.0	0.094	1	376.1	06/12/06 8:00	cmatthews	Q15504

Sample Comment(s):

BRL = Below Reporting Limit
J = Estimated value between the Reporting Limit and the MDL
The results in this report relate only to the samples submitted for analysis and meet state certification requirements other than NELAC certification except for those instances indicated in the case narrative and/or test comments.

Angela D. Overcash, V.P. Laboratory Services

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Full Service Analytical & Environmental Solutions

Laboratory Report

06/27/06

Weston Solutions
Attn: Tara Rowland
4917 Waters Edge
Suite 235
Raleigh, NC 27606

Project Name: Durham County Landfill
Project ID: Assessment Monitoring
Sample Matrix: Water

Client Sample ID: TRIP BLANK
Prism Sample ID: 152778
COC Group: G0606188
Time Collected: 06/06/06
Time Submitted: 06/07/06 16:30

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Volatile Organic Compounds by GC/MS									
1,1,1,2-Tetrachloroethane	BRL	µg/L	1.0	0.40	1	8260B	06/15/06 20:54	kcampigotto	Q15627
1,1,1-Trichloroethane	BRL	µg/L	1.0	0.45	1	8260B	06/15/06 20:54	kcampigotto	Q15627
1,1,2,2-Tetrachloroethane	BRL	µg/L	1.0	0.30	1	8260B	06/15/06 20:54	kcampigotto	Q15627
1,1,2-Trichloroethane	BRL	µg/L	1.0	0.42	1	8260B	06/15/06 20:54	kcampigotto	Q15627
1,1-Dichloroethane	BRL	µg/L	1.0	0.38	1	8260B	06/15/06 20:54	kcampigotto	Q15627
1,1-Dichloroethene	BRL	µg/L	1.0	0.43	1	8260B	06/15/06 20:54	kcampigotto	Q15627
1,1-Dichloropropene	BRL	µg/L	1.0	0.39	1	8260B	06/15/06 20:54	kcampigotto	Q15627
1,2,3-Trichlorobenzene	BRL	µg/L	2.0	0.57	1	8260B	06/15/06 20:54	kcampigotto	Q15627
1,2,3-Trichloropropane	BRL	µg/L	1.0	0.50	1	8260B	06/15/06 20:54	kcampigotto	Q15627
1,2,4-Trichlorobenzene	BRL	µg/L	1.0	0.42	1	8260B	06/15/06 20:54	kcampigotto	Q15627
1,2-Dibromo-3-chloropropane	BRL	µg/L	2.0	0.56	1	8260B	06/15/06 20:54	kcampigotto	Q15627
1,2-Dibromoethane (EDB)	BRL	µg/L	1.0	0.46	1	8260B	06/15/06 20:54	kcampigotto	Q15627
1,2-Dichlorobenzene	BRL	µg/L	1.0	0.27	1	8260B	06/15/06 20:54	kcampigotto	Q15627
1,2-Dichloroethane	BRL	µg/L	1.0	0.36	1	8260B	06/15/06 20:54	kcampigotto	Q15627
1,2-Dichloropropane	BRL	µg/L	1.0	0.26	1	8260B	06/15/06 20:54	kcampigotto	Q15627
1,3-Dichlorobenzene	BRL	µg/L	1.0	0.22	1	8260B	06/15/06 20:54	kcampigotto	Q15627
1,3-Dichloropropane	BRL	µg/L	1.0	0.26	1	8260B	06/15/06 20:54	kcampigotto	Q15627
1,4-Dichlorobenzene	BRL	µg/L	1.0	0.32	1	8260B	06/15/06 20:54	kcampigotto	Q15627
2,2-Dichloropropane	BRL	µg/L	2.0	0.73	1	8260B	06/15/06 20:54	kcampigotto	Q15627
2-Hexanone	BRL	µg/L	5.0	0.38	1	8260B	06/15/06 20:54	kcampigotto	Q15627
4-Methyl-2-pentanone (MIBK)	BRL	µg/L	5.0	0.32	1	8260B	06/15/06 20:54	kcampigotto	Q15627
Acetone	BRL	µg/L	10	2.5	1	8260B	06/15/06 20:54	kcampigotto	Q15627
Acetonitrile	BRL	µg/L	20	5.0	1	8260B	06/15/06 20:54	kcampigotto	Q15627
Acrolein	BRL	µg/L	100	4.5	1	8260B	06/15/06 20:54	kcampigotto	Q15627
Acrylonitrile	BRL	µg/L	100	0.65	1	8260B	06/15/06 20:54	kcampigotto	Q15627
Allyl chloride	BRL	µg/L	10	5.0	1	8260B	06/15/06 20:54	kcampigotto	Q15627
Benzene	BRL	µg/L	0.50	0.14	1	8260B	06/15/06 20:54	kcampigotto	Q15627

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NC Drinking Water Cert. No. 37735

Laboratory Report

06/27/06

Weston Solutions
Attn: Tara Rowland
4917 Waters Edge
Suite 235
Raleigh, NC 27606

Project Name: Durham County Landfill
Project ID: Assessment Monitoring
Sample Matrix: Water

Client Sample ID: TRIP BLANK
Prism Sample ID: 152778
COC Group: G0606188
Time Collected: 06/06/06
Time Submitted: 06/07/06 16:30

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Bromochloromethane	BRL	µg/L	1.0	0.31	1	8260B	06/15/06 20:54	kcampigotto	Q15627
Bromodichloromethane	BRL	µg/L	1.0	0.31	1	8260B	06/15/06 20:54	kcampigotto	Q15627
Bromoform	BRL	µg/L	1.0	0.39	1	8260B	06/15/06 20:54	kcampigotto	Q15627
Bromomethane	BRL	µg/L	3.0	1.1	1	8260B	06/15/06 20:54	kcampigotto	Q15627
Carbon disulfide	BRL	µg/L	5.0	0.71	1	8260B	06/15/06 20:54	kcampigotto	Q15627
Carbon tetrachloride	BRL	µg/L	2.0	0.52	1	8260B	06/15/06 20:54	kcampigotto	Q15627
Chlorobenzene	BRL	µg/L	1.0	0.24	1	8260B	06/15/06 20:54	kcampigotto	Q15627
Chlorodibromomethane	BRL	µg/L	1.0	0.10	1	8260B	06/15/06 20:54	kcampigotto	Q15627
Chloroethane	BRL	µg/L	5.0	1.6	1	8260B	06/15/06 20:54	kcampigotto	Q15627
Chloroform	BRL	µg/L	1.0	0.35	1	8260B	06/15/06 20:54	kcampigotto	Q15627
Chloromethane	BRL	µg/L	2.0	0.47	1	8260B	06/15/06 20:54	kcampigotto	Q15627
Chloroprene	BRL	µg/L	10	5.0	1	8260B	06/15/06 20:54	kcampigotto	Q15627
cis-1,2-Dichloroethene	BRL	µg/L	1.0	0.47	1	8260B	06/15/06 20:54	kcampigotto	Q15627
cis-1,3-Dichloropropene	BRL	µg/L	1.0	0.29	1	8260B	06/15/06 20:54	kcampigotto	Q15627
Dibromomethane	BRL	µg/L	1.0	0.34	1	8260B	06/15/06 20:54	kcampigotto	Q15627
Dichlorodifluoromethane	BRL	µg/L	2.0	0.26	1	8260B	06/15/06 20:54	kcampigotto	Q15627
Ethyl methacrylate	BRL	µg/L	10	5.0	1	8260B	06/15/06 20:54	kcampigotto	Q15627
Ethylbenzene	BRL	µg/L	1.0	0.32	1	8260B	06/15/06 20:54	kcampigotto	Q15627
Isobutyl alcohol	BRL	µg/L	10	5.0	1	8260B	06/15/06 20:54	kcampigotto	Q15627
m,p-Xylenes	BRL	µg/L	2.0	0.51	1	8260B	06/15/06 20:54	kcampigotto	Q15627
Methacrylonitrile	BRL	µg/L	10	5.0	1	8260B	06/15/06 20:54	kcampigotto	Q15627
Methyl ethyl ketone (MEK)	BRL	µg/L	5.0	0.81	1	8260B	06/15/06 20:54	kcampigotto	Q15627
Methyl iodide	BRL	µg/L	5.0	2.0	1	8260B	06/15/06 20:54	kcampigotto	Q15627
Methyl methacrylate	BRL	µg/L	10	5.0	1	8260B	06/15/06 20:54	kcampigotto	Q15627
Methylene chloride	BRL	µg/L	2.0	0.61	1	8260B	06/15/06 20:54	kcampigotto	Q15627
o-Xylene	BRL	µg/L	1.0	0.24	1	8260B	06/15/06 20:54	kcampigotto	Q15627
Propionitrile	BRL	µg/L	10	5.0	1	8260B	06/15/06 20:54	kcampigotto	Q15627
Styrene	BRL	µg/L	1.0	0.22	1	8260B	06/15/06 20:54	kcampigotto	Q15627

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Laboratory Report

06/27/06

Weston Solutions
Attn: Tara Rowland
4917 Waters Edge
Suite 235
Raleigh, NC 27606

Project Name: Durham County Landfill
Project ID: Assessment Monitoring
Sample Matrix: Water

Client Sample ID: TRIP BLANK
Prism Sample ID: 152778
COC Group: G0606188
Time Collected: 06/06/06
Time Submitted: 06/07/06 16:30

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Tetrachloroethene	**BRL**	µg/L	1.0	0.49	1	8260B	06/15/06 20:54	kcampigotto	Q15627
Toluene	**BRL**	µg/L	1.0	0.39	1	8260B	06/15/06 20:54	kcampigotto	Q15627
trans-1,2-Dichloroethene	**BRL**	µg/L	2.0	0.56	1	8260B	06/15/06 20:54	kcampigotto	Q15627
trans-1,3-Dichloropropene	**BRL**	µg/L	1.0	0.38	1	8260B	06/15/06 20:54	kcampigotto	Q15627
trans-1,4-Dichloro-2-butene	**BRL**	µg/L	10	5.0	1	8260B	06/15/06 20:54	kcampigotto	Q15627
Trichloroethene	**BRL**	µg/L	2.0	0.52	1	8260B	06/15/06 20:54	kcampigotto	Q15627
Trichlorofluoromethane	**BRL**	µg/L	2.0	0.65	1	8260B	06/15/06 20:54	kcampigotto	Q15627
Vinyl acetate	**BRL**	µg/L	20	10	1	8260B	06/15/06 20:54	kcampigotto	Q15627
Vinyl chloride	**BRL**	µg/L	2.0	0.60	1	8260B	06/15/06 20:54	kcampigotto	Q15627

Surrogate	% Recovery	Control Limits
Toluene-d8	100	75 - 121
Dibromofluoromethane	107	74 - 133
Bromofluorobenzene	101	69 - 139

Sample Comment(s):

BRL = Below Reporting Limit

J = Estimated value between the Reporting Limit and the MDL

The results in this report relate only to the samples submitted for analysis and meet state certification requirements other than NELAC certification except for those instances indicated in the case narrative and/or test comments.

Angela D. Overcash, V.P. Laboratory Services

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NC Drinking Water Cert. No. 37735

Level II QC Report

6/27/2006

Weston Solutions
Attn: Tara Rowland
4917 Waters Edge
Suite 235
Raleigh, NC 27606

Project Name: Durham County Landfil
Project ID: Assessment Monitorin

COC Group Number: G0606188
Date/Time Submitted: 6/7/2006 16:30

Sulfide by Iodometric Method, method 376.1

Method Blank

	Result	RL	Control Limit	Units	QC Batch ID
Sulfide	ND	2	<1	mg/L	Q15504

Laboratory Control Sample

	Result	Spike Amount	Units	Recovery %	Recovery Range %	QC Batch ID
Sulfide	42.67	40	mg/L	107	90 - 110	Q15504

Matrix Spike

Sample ID:		Result	Spike Amount	Units	Recovery %	Recovery Range %	QC Batch ID
152777	Sulfide	21.56	20	mg/L	108	80 - 120	Q15504

Matrix Spike Duplicate

Sample ID:		Result	Spike Amount	Units	Recovery %	Recovery Range %	RPD %	RPD Range %	QC Batch ID
152777	Sulfide	21.34	20	mg/L	107	80 - 120	1	0 - 20	Q15504

Sulfide by Iodometric Method, method 376.1

Method Blank

	Result	RL	Control Limit	Units	QC Batch ID
Sulfide	ND	2	<1	mg/L	Q15505

Laboratory Control Sample

	Result	Spike Amount	Units	Recovery %	Recovery Range %	QC Batch ID
Sulfide	41.79	40	mg/L	104	90 - 110	Q15505

Matrix Spike

Sample ID:		Result	Spike Amount	Units	Recovery %	Recovery Range %	QC Batch ID
152776	Sulfide	21.34	20	mg/L	107	80 - 120	Q15505

Matrix Spike Duplicate

Sample ID:		Result	Spike Amount	Units	Recovery %	Recovery Range %	RPD %	RPD Range %	QC Batch ID
152776	Sulfide	21.34	20	mg/L	107	80 - 120	0	0 - 20	Q15505

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Level II QC Report

6/27/2006

Weston Solutions
Attn: Tara Rowland
4917 Waters Edge
Suite 235
Raleigh, NC 27606

Project Name: Durham County Landfil
Project ID: Assessment Monitorin

COC Group Number: G0606188
Date/Time Submitted: 6/7/2006 16:30

Semi-volatile Organics by GC/MS, method 8270C

Method Blank

	Result	RL	Control Limit	Units	QC Batch ID
1,2,4,5-Tetrachlorobenzene	ND	10	<5	µg/L	Q15582
1,3,5-Trinitrobenzene	ND	10	<5	µg/L	Q15582
1,3-Dinitrobenzene	ND	10	<5	µg/L	Q15582
1,4-Diphenylenediamine	ND	10	<5	µg/L	Q15582
1,4-Napthaquinone	ND	10	<5	µg/L	Q15582
1-Napthylamine	ND	10	<5	µg/L	Q15582
2,3,4,6-Tetrachlorophenol	ND	10	<5	µg/L	Q15582
2,4,5-Trichlorophenol	ND	10	<5	µg/L	Q15582
2,4,6-Trichlorophenol	ND	10	<5	µg/L	Q15582
2,4-Dichlorophenol	ND	10	<5	µg/L	Q15582
2,4-Dimethylphenol	ND	10	<5	µg/L	Q15582
2,4-Dinitrophenol	ND	10	<5	µg/L	Q15582
2,4-Dinitrotoluene	ND	10	<5	µg/L	Q15582
2,6-Dichlorophenol	ND	10	<5	µg/L	Q15582
2,6-Dinitrotoluene	ND	10	<5	µg/L	Q15582
2-Acetylaminofluorene	ND	10	<5	µg/L	Q15582
2-Chloronaphthalene	ND	10	<5	µg/L	Q15582
2-Chlorophenol	ND	10	<5	µg/L	Q15582
2-Methylnaphthalene	ND	10	<5	µg/L	Q15582
2-Methylphenol	ND	10	<5	µg/L	Q15582
2-Napthylamine	ND	10	<5	µg/L	Q15582
2-Nitroaniline	ND	10	<5	µg/L	Q15582
2-Nitrophenol	ND	10	<5	µg/L	Q15582
3&4-Methylphenol	ND	10	<5	µg/L	Q15582
3,3'-Dichlorobenzidine	ND	10	<5	µg/L	Q15582
3,3'-Dimethylbenzidine	ND	10	<5	µg/L	Q15582
3-Methylcholanthrene	ND	10	<5	µg/L	Q15582
3-Nitroaniline	ND	10	<5	µg/L	Q15582
4,6-Dinitro-2-methylphenol	ND	10	<5	µg/L	Q15582
4-Aminobiphenyl	ND	10	<5	µg/L	Q15582
4-Bromophenylphenylether	ND	10	<5	µg/L	Q15582
4-Chloro-3-methylphenol	ND	10	<5	µg/L	Q15582
4-Chloroaniline	ND	10	<5	µg/L	Q15582
4-Chlorophenylphenylether	ND	10	<5	µg/L	Q15582
4-Nitroaniline	ND	10	<5	µg/L	Q15582
4-Nitrophenol	ND	10	<5	µg/L	Q15582
5-Nitro-o-toluidine	ND	10	<5	µg/L	Q15582
7,12-Dimethylbenz(a)anthracene	ND	10	<5	µg/L	Q15582
Acenaphthene	ND	10	<5	µg/L	Q15582
Acenaphthylene	ND	10	<5	µg/L	Q15582
Acetophenone	ND	10	<5	µg/L	Q15582
Anthracene	ND	10	<5	µg/L	Q15582

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Level II QC Report

6/27/2006

Weston Solutions
Attn: Tara Rowland
4917 Waters Edge
Suite 235
Raleigh, NC 27606

Project Name: Durham County Landfil
Project ID: Assessment Monitorin

COC Group Number: G0606188
Date/Time Submitted: 6/7/2006 16:30

Method Blank

	Result	RL	Control Limit	Units	QC Batch ID
Benzo(a)anthracene	ND	10	<5	µg/L	Q15582
Benzo(a)pyrene	ND	10	<5	µg/L	Q15582
Benzo(b)fluoranthene	ND	10	<5	µg/L	Q15582
Benzo(g,h,i)perylene	ND	10	<5	µg/L	Q15582
Benzo(k)fluoranthene	ND	10	<5	µg/L	Q15582
Benzyl alcohol	ND	10	<5	µg/L	Q15582
Bis(2-chloroethoxy)methane	ND	10	<5	µg/L	Q15582
Bis(2-chloroethyl)ether	ND	10	<5	µg/L	Q15582
Bis(2-chloroisopropyl)ether	ND	10	<5	µg/L	Q15582
Bis(2-ethylhexyl)phthalate	ND	10	<5	µg/L	Q15582
Butylbenzylphthalate	ND	10	<5	µg/L	Q15582
Chlorobenzilate	ND	10	<5	µg/L	Q15582
Chrysene	ND	10	<5	µg/L	Q15582
Di-n-butylphthalate	ND	10	<5	µg/L	Q15582
Di-n-octylphthalate	ND	10	<5	µg/L	Q15582
Diallate	ND	10	<5	µg/L	Q15582
Dibenzo(a,h)anthracene	ND	10	<5	µg/L	Q15582
Dibenzofuran	ND	10	<5	µg/L	Q15582
Diethylphthalate	ND	10	<5	µg/L	Q15582
Dimethoate	ND	10	<5	µg/L	Q15582
Dimethylphthalate	ND	10	<5	µg/L	Q15582
Dinoseb	ND	10	<5	µg/L	Q15582
Diphenylamine	ND	10	<5	µg/L	Q15582
Disulfoton	ND	10	<5	µg/L	Q15582
Ethylmethane sulfonate	ND	10	<5	µg/L	Q15582
Famphur	ND	10	<5	µg/L	Q15582
Fluoranthene	ND	10	<5	µg/L	Q15582
Fluorene	ND	10	<5	µg/L	Q15582
Hexachlorobenzene	ND	10	<5	µg/L	Q15582
Hexachlorobutadiene	ND	10	<5	µg/L	Q15582
Hexachlorocyclopentadiene	ND	10	<5	µg/L	Q15582
Hexachloroethane	ND	10	<5	µg/L	Q15582
Hexachloropropene	ND	10	<5	µg/L	Q15582
Indeno(1,2,3-cd)pyrene	ND	10	<5	µg/L	Q15582
Isodrin	ND	10	<5	µg/L	Q15582
Isophorone	ND	10	<5	µg/L	Q15582
Isosafrole	ND	10	<5	µg/L	Q15582
Kepone	ND	10	<5	µg/L	Q15582
Methapyrilene	ND	10	<5	µg/L	Q15582
Methyl parathion	ND	10	<5	µg/L	Q15582
Methylmethane sulfonate	ND	10	<5	µg/L	Q15582
N-Nitrosodi-n-propylamine	ND	10	<5	µg/L	Q15582
N-Nitrosodibutylamine	ND	10	<5	µg/L	Q15582
N-Nitrosodiethylamine	ND	10	<5	µg/L	Q15582

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Full Service Analytical & Environmental Solutions

Level II QC Report

6/27/2006

Weston Solutions
Attn: Tara Rowland
4917 Waters Edge
Suite 235
Raleigh, NC 27606

Project Name: Durham County Landfil
Project ID: Assessment Monitorin

COC Group Number: G0606188
Date/Time Submitted: 6/7/2006 16:30

Method Blank

	Result	RL	Control Limit	Units	QC Batch ID
N-Nitrosodimethylamine	ND	10	<5	µg/L	Q15582
N-Nitrosodimethylethylamine	ND	10	<5	µg/L	Q15582
N-Nitrosodiphenylamine	ND	10	<5	µg/L	Q15582
n-Nitrosopiperidine	ND	10	<5	µg/L	Q15582
N-Nitrosopyrrolidine	ND	10	<5	µg/L	Q15582
Naphthalene	ND	10	<5	µg/L	Q15582
Nitrobenzene	ND	10	<5	µg/L	Q15582
o,o,o-Triethylphosphorthioate	ND	10	<5	µg/L	Q15582
o-Toluidine	ND	10	<5	µg/L	Q15582
p-Dimethylaminoazobenzene	ND	10	<5	µg/L	Q15582
Pentachlorobenzene	ND	10	<5	µg/L	Q15582
Pentachloronitrobenzene	ND	10	<5	µg/L	Q15582
Pentachlorophenol	ND	10	<5	µg/L	Q15582
Phenacetin	ND	10	<5	µg/L	Q15582
Phenanthrene	ND	10	<5	µg/L	Q15582
Phenol	ND	10	<5	µg/L	Q15582
Phorate	ND	10	<5	µg/L	Q15582
Pronamide	ND	10	<5	µg/L	Q15582
Pyrene	ND	10	<5	µg/L	Q15582
Safrole	ND	10	<5	µg/L	Q15582
Thionazin	ND	10	<5	µg/L	Q15582

Laboratory Control Sample

	Result	Spike Amount	Units	Recovery %		Recovery Range %	QC Batch ID
1,2,4-Trichlorobenzene	40.45	50	µg/L	81		26 - 96	Q15582
1,4-Dichlorobenzene	38.28	50	µg/L	77		19 - 95	Q15582
2,4-Dinitrotoluene	52.5	50	µg/L	105		47 - 122	Q15582
2-Chlorophenol	31.1	50	µg/L	62		20 - 95	Q15582
4-Chloro-3-methylphenol	36.61	50	µg/L	73		36 - 104	Q15582
4-Nitrophenol	10.01	50	µg/L	20		10 - 117	Q15582
Acenaphthene	50.05	50	µg/L	100		36 - 109	Q15582
N-Nitrosodi-n-propylamine	45.85	50	µg/L	92		31 - 100	Q15582
Pentachlorophenol	62.43	50	µg/L	125	#	48 - 124	Q15582
Phenol	8.89	50	µg/L	18		10 - 99	Q15582
Pyrene	56.46	50	µg/L	113		55 - 120	Q15582

Matrix Spike

Sample ID:		Result	Spike Amount	Units	Recovery %	Recovery Range %	QC Batch ID
152770	1,2,4-Trichlorobenzene	84	100	µg/L	84	21 - 105	Q15582
	1,4-Dichlorobenzene	76.48	100	µg/L	76	19 - 99	Q15582
	2,4-Dinitrotoluene	105.96	100	µg/L	106	48 - 126	Q15582
	2-Chlorophenol	68.12	100	µg/L	68	19 - 104	Q15582
	4-Chloro-3-methylphenol	82.32	100	µg/L	82	35 - 115	Q15582

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Full Service Analytical & Environmental Solutions

Level II QC Report

6/27/2006

Weston Solutions
Attn: Tara Rowland
4917 Waters Edge
Suite 235
Raleigh, NC 27606

Project Name: Durham County Landfil
Project ID: Assessment Monitoring

COC Group Number: G0606188
Date/Time Submitted: 6/7/2006 16:30

Matrix Spike

Sample ID:		Result	Spike Amount	Units	Recovery %		Recovery Range %	QC Batch ID
	4-Nitrophenol	29.52	100	µg/L	30		10 - 116	Q15582
	Acenaphthene	101.88	100	µg/L	102		35 - 112	Q15582
	N-Nitrosodi-n-propylamine	87.1	100	µg/L	87		27 - 105	Q15582
	Pentachlorophenol	126.16	100	µg/L	126	#	62 - 119	Q15582
	Phenol	28.86	100	µg/L	29		10 - 93	Q15582
	Pyrene	110.98	100	µg/L	111		52 - 127	Q15582

Matrix Spike Duplicate

Sample ID:		Result	Spike Amount	Units	Recovery %		Recovery Range %	RPD %	RPD Range %	QC Batch ID
152770	1,2,4-Trichlorobenzene	91.34	100	µg/L	91		21 - 105	8	0 - 36	Q15582
	1,4-Dichlorobenzene	89.46	100	µg/L	89		19 - 99	16	0 - 36	Q15582
	2,4-Dinitrotoluene	109.6	100	µg/L	110		48 - 126	3	0 - 29	Q15582
	2-Chlorophenol	75.78	100	µg/L	76		19 - 104	11	0 - 35	Q15582
	4-Chloro-3-methylphenol	83.76	100	µg/L	84		35 - 115	2	0 - 33	Q15582
	4-Nitrophenol	31.94	100	µg/L	32		10 - 116	8	0 - 50	Q15582
	Acenaphthene	100.2	100	µg/L	100		35 - 112	2	0 - 20	Q15582
	N-Nitrosodi-n-propylamine	95.14	100	µg/L	95		27 - 105	9	0 - 36	Q15582
	Pentachlorophenol	123.9	100	µg/L	124	#	62 - 119	2	0 - 21	Q15582
	Phenol	30.58	100	µg/L	31		10 - 93	6	0 - 39	Q15582
	Pyrene	111.2	100	µg/L	111		52 - 127	0	0 - 15	Q15582

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Level II QC Report

6/27/2006

Weston Solutions
Attn: Tara Rowland
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Raleigh, NC 27606

Project Name: Durham County Landfil
Project ID: Assessment Monitorin

COC Group Number: G0606188
Date/Time Submitted: 6/7/2006 16:30

Volatile Organic Compounds by GC/MS, method 8260B

Method Blank

	Result	RL	Control Limit	Units	QC Batch ID
1,1,1,2-Tetrachloroethane	ND	1	<0.5	µg/L	Q15627
1,1,1-Trichloroethane	ND	1	<0.5	µg/L	Q15627
1,1,2,2-Tetrachloroethane	ND	1	<0.5	µg/L	Q15627
1,1,2-Trichloroethane	ND	1	<0.5	µg/L	Q15627
1,1-Dichloroethane	ND	1	<0.5	µg/L	Q15627
1,1-Dichloroethene	ND	1	<0.5	µg/L	Q15627
1,1-Dichloropropene	ND	1	<0.5	µg/L	Q15627
1,2,3-Trichlorobenzene	ND	2	<1	µg/L	Q15627
1,2,3-Trichloropropane	ND	1	<0.5	µg/L	Q15627
1,2,4-Trichlorobenzene	ND	1	<0.5	µg/L	Q15627
1,2-Dibromo-3-chloropropane	ND	2	<1	µg/L	Q15627
1,2-Dibromoethane (EDB)	ND	1	<0.5	µg/L	Q15627
1,2-Dichlorobenzene	ND	1	<0.5	µg/L	Q15627
1,2-Dichloroethane	ND	1	<0.5	µg/L	Q15627
1,2-Dichloropropane	ND	1	<0.5	µg/L	Q15627
1,3-Dichlorobenzene	ND	1	<0.5	µg/L	Q15627
1,3-Dichloropropane	ND	1	<0.5	µg/L	Q15627
1,4-Dichlorobenzene	ND	1	<0.5	µg/L	Q15627
2,2-Dichloropropane	ND	2	<1	µg/L	Q15627
2-Hexanone	ND	5	<2.5	µg/L	Q15627
4-Methyl-2-pentanone (MIBK)	ND	5	<2.5	µg/L	Q15627
Acetone	ND	10	<5	µg/L	Q15627
Acetonitrile	ND	10	<5	µg/L	Q15627
Acrolein	ND	20	<10	µg/L	Q15627
Acrylonitrile	ND	20	<10	µg/L	Q15627
Allyl chloride	ND	10	<5	µg/L	Q15627
Benzene	ND	0.5	<0.25	µg/L	Q15627
Bromochloromethane	ND	1	<0.5	µg/L	Q15627
Bromodichloromethane	ND	1	<0.5	µg/L	Q15627
Bromoform	ND	1	<0.5	µg/L	Q15627
Bromomethane	ND	3	<1.5	µg/L	Q15627
Carbon disulfide	ND	5	<2.5	µg/L	Q15627
Carbon tetrachloride	ND	2	<1	µg/L	Q15627
Chlorobenzene	ND	1	<0.5	µg/L	Q15627
Chlorodibromomethane	ND	1	<0.5	µg/L	Q15627
Chloroethane	ND	5	<2.5	µg/L	Q15627
Chloroform	ND	1	<0.5	µg/L	Q15627
Chloromethane	ND	2	<1	µg/L	Q15627
Chloroprene	ND	10	<5	µg/L	Q15627
cis-1,2-Dichloroethene	ND	1	<0.5	µg/L	Q15627
cis-1,3-Dichloropropene	ND	1	<0.5	µg/L	Q15627
Dibromomethane	ND	1	<0.5	µg/L	Q15627

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Full Service Analytical & Environmental Solutions

Level II QC Report

6/27/2006

Weston Solutions
Attn: Tara Rowland
4917 Waters Edge
Suite 235
Raleigh, NC 27606

Project Name: Durham County Landfil
Project ID: Assessment Monitorin

COC Group Number: G0606188
Date/Time Submitted: 6/7/2006 16:30

Method Blank

	Result	RL	Control Limit	Units	QC Batch ID
Dichlorodifluoromethane	ND	2	<1	µg/L	Q15627
Ethyl methacrylate	ND	10	<5	µg/L	Q15627
Ethylbenzene	ND	1	<0.5	µg/L	Q15627
Isobutyl alcohol	ND	10	<5	µg/L	Q15627
m,p-Xylenes	ND	2	<1	µg/L	Q15627
Methacrylonitrile	ND	10	<5	µg/L	Q15627
Methyl ethyl ketone (MEK)	ND	5	<2.5	µg/L	Q15627
Methyl iodide	ND	5	<2.5	µg/L	Q15627
Methyl methacrylate	ND	10	<5	µg/L	Q15627
Methylene chloride	ND	2	<1	µg/L	Q15627
o-Xylene	ND	1	<0.5	µg/L	Q15627
Propionitrile	ND	10	<5	µg/L	Q15627
Styrene	ND	1	<0.5	µg/L	Q15627
Tetrachloroethene	ND	1	<0.5	µg/L	Q15627
Toluene	ND	1	<0.5	µg/L	Q15627
trans-1,2-Dichloroethene	ND	2	<1	µg/L	Q15627
trans-1,3-Dichloropropene	ND	1	<0.5	µg/L	Q15627
trans-1,4-Dichloro-2-butene	ND	10	<5	µg/L	Q15627
Trichloroethene	ND	2	<1	µg/L	Q15627
Trichlorofluoromethane	ND	2	<1	µg/L	Q15627
Vinyl acetate	ND	20	<10	µg/L	Q15627
Vinyl chloride	ND	2	<1	µg/L	Q15627

Laboratory Control Sample

	Result	Spike Amount	Units	Recovery %	Recovery Range %	QC Batch ID
1,1-Dichloroethene	55.13	50	µg/L	110	62 - 141	Q15627
Benzene	57.97	50	µg/L	116	70 - 141	Q15627
Chlorobenzene	52.09	50	µg/L	104	88 - 120	Q15627
Toluene	57.04	50	µg/L	114	78 - 130	Q15627
Trichloroethene	59.06	50	µg/L	118	78 - 124	Q15627

Matrix Spike

Sample ID:		Result	Spike Amount	Units	Recovery %	Recovery Range %	QC Batch ID
152767	1,1-Dichloroethene	220.64	200	µg/L	110	54 - 140	Q15627
	Benzene	227.92	200	µg/L	114	62 - 129	Q15627
	Chlorobenzene	213.8	200	µg/L	107	64 - 127	Q15627
	Toluene	224.4	200	µg/L	112	60 - 131	Q15627
	Trichloroethene	224.64	200	µg/L	112	52 - 128	Q15627

Matrix Spike Duplicate

Sample ID:		Result	Spike Amount	Units	Recovery %	Recovery Range %	RPD %	RPD Range %	QC Batch ID
152767	1,1-Dichloroethene	215.2	200	µg/L	108	54 - 140	2	0 - 20	Q15627
	Benzene	225	200	µg/L	113	62 - 129	1	0 - 19	Q15627

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Project Name: Durham County Landfil
Project ID: Assessment Monitorin

COC Group Number: G0606188
Date/Time Submitted: 6/7/2006 16:30

Matrix Spike Duplicate

Sample ID:		Result	Spike Amount	Units	Recovery %	Recovery Range %	RPD %	RPD Range %	QC Batch ID
	Chlorobenzene	200.8	200	µg/L	100	64 - 127	6	0 - 20	Q15627
	Toluene	222.28	200	µg/L	111	60 - 131	1	0 - 21	Q15627
	Trichloroethene	219.32	200	µg/L	110	52 - 128	2	0 - 18	Q15627

Cyanide by Colorimetric Method, method 9014

Method Blank

	Result	RL	Control Limit	Units	QC Batch ID
Cyanide, Total	0.0007	0.002	<0.001	mg/L	Q15692

Laboratory Control Sample

	Result	Spike Amount	Units	Recovery %	Recovery Range %	QC Batch ID
Cyanide, Total	0.0213	0.02	mg/L	107	80 - 120	Q15692

Matrix Spike

Sample ID:		Result	Spike Amount	Units	Recovery %	Recovery Range %	QC Batch ID
152773	Cyanide, Total	0.0846	0.08	mg/L	103	80 - 120	Q15692

Matrix Spike Duplicate

Sample ID:		Result	Spike Amount	Units	Recovery %	Recovery Range %	RPD %	RPD Range %	QC Batch ID
152773	Cyanide, Total	0.0900	0.08	mg/L	110	80 - 120	6	0 - 20	Q15692

Cyanide by Colorimetric Method, method 9014

Method Blank

	Result	RL	Control Limit	Units	QC Batch ID
Cyanide, Total	0.0005	0.002	<0.001	mg/L	Q15722

Laboratory Control Sample

	Result	Spike Amount	Units	Recovery %	Recovery Range %	QC Batch ID
Cyanide, Total	0.0184	0.02	mg/L	92	80 - 120	Q15722

Matrix Spike

Sample ID:		Result	Spike Amount	Units	Recovery %	Recovery Range %	QC Batch ID
152777	Cyanide, Total	0.0859	0.08	mg/L	106	80 - 120	Q15722

Matrix Spike Duplicate

Sample ID:		Result	Spike Amount	Units	Recovery %	Recovery Range %	RPD %	RPD Range %	QC Batch ID
152777	Cyanide, Total	0.0877	0.08	mg/L	109	80 - 120	2	0 - 20	Q15722

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449 Springbrook Road - P.O. Box 240543 - Charlotte, NC 28224-0543
Phone: 704/529-6364 - Toll Free Number: 1-800/529-6364 - Fax: 704/525-0409

Full Service Analytical & Environmental Solutions

NC Certification No. 402
SC Certification No. 99012
NC Drinking Water Cert. No. 37735

Level II QC Report

6/27/2006

Weston Solutions
Attn: Tara Rowland
4917 Waters Edge
Suite 235
Raleigh, NC 27606

Project Name: Durham County Landfil
Project ID: Assessment Monitorin

COC Group Number: G0606188
Date/Time Submitted: 6/7/2006 16:30

Organochlorine Pesticides and PCBs by GC/ECD, method 8081A

Method Blank

	Result	RL	Control Limit	Units	QC Batch ID
4,4'-DDD	ND	0.05	<0.025	µg/L	Q15726
4,4'-DDE	ND	0.05	<0.025	µg/L	Q15726
4,4'-DDT	ND	0.05	<0.025	µg/L	Q15726
4,4'-Methoxychlor	ND	0.05	<0.025	µg/L	Q15726
a-BHC	ND	0.05	<0.025	µg/L	Q15726
Aldrin	ND	0.05	<0.025	µg/L	Q15726
b-BHC	ND	0.05	<0.025	µg/L	Q15726
Chlordane	ND	0.5	<0.25	µg/L	Q15726
d-BHC	ND	0.05	<0.025	µg/L	Q15726
Dieldrin	ND	0.05	<0.025	µg/L	Q15726
Endosulfan I	ND	0.05	<0.025	µg/L	Q15726
Endosulfan II	ND	0.05	<0.025	µg/L	Q15726
Endosulfan Sulfate	ND	0.05	<0.025	µg/L	Q15726
Endrin	ND	0.05	<0.025	µg/L	Q15726
Endrin Aldehyde	ND	0.05	<0.025	µg/L	Q15726
Endrin Ketone	ND	0.05	<0.025	µg/L	Q15726
g-BHC	ND	0.05	<0.025	µg/L	Q15726
Heptachlor	ND	0.05	<0.025	µg/L	Q15726
Heptachlor Epoxide	ND	0.05	<0.025	µg/L	Q15726
Toxaphene	ND	0.5	<0.25	µg/L	Q15726

Laboratory Control Sample

	Result	Spike Amount	Units	Recovery %	Recovery Range %	QC Batch ID
4,4'-DDT	0.783	1	µg/L	78	66 - 142	Q15726
Aldrin	0.733	1	µg/L	73	62 - 124	Q15726
Dieldrin	0.766	1	µg/L	77	69 - 130	Q15726
Endrin	0.791	1	µg/L	79	69 - 144	Q15726
Heptachlor	0.784	1	µg/L	78	61 - 136	Q15726

Matrix Spike

Sample ID:		Result	Spike Amount	Units	Recovery %	Recovery Range %	QC Batch ID
152767	4,4'-DDT	0.885	1	µg/L	89	15 - 171	Q15726
	Aldrin	0.748	1	µg/L	75	24 - 142	Q15726
	Dieldrin	0.831	1	µg/L	83	27 - 148	Q15726
	Endrin	0.892	1	µg/L	89	35 - 165	Q15726
	Heptachlor	0.804	1	µg/L	80	38 - 150	Q15726

Matrix Spike Duplicate

Sample ID:		Result	Spike Amount	Units	Recovery %	Recovery Range %	RPD %	RPD Range %	QC Batch ID
152767	4,4'-DDT	0.809	1	µg/L	81	15 - 171		0 - 30	Q15726
	Aldrin	0.743	1	µg/L	74	24 - 142	1	0 - 35	Q15726

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Level II QC Report

6/27/2006

Weston Solutions
Attn: Tara Rowland
4917 Waters Edge
Suite 235
Raleigh, NC 27606

Project Name: Durham County Landfil
Project ID: Assessment Monitorin

COC Group Number: G0606188
Date/Time Submitted: 6/7/2006 16:30

Matrix Spike Duplicate

Sample ID:		Result	Spike Amount	Units	Recovery %	Recovery Range %	RPD %	RPD Range %	QC Batch ID
	Dieldrin	0.793	1	µg/L	79	27 - 148	5	0 - 28	Q15726
	Endrin	0.847	1	µg/L	85	35 - 165	5	0 - 27	Q15726
	Heptachlor	0.811	1	µg/L	81	38 - 150	1	0 - 36	Q15726

Polychlorinated Biphenyls (PCBs) by GC-ECD, method 8082

Method Blank

		Result	RL	Control Limit	Units	QC Batch ID
	PCB-1016	ND	0.5	<0.25	µg/L	Q15728
	PCB-1221	ND	1	<0.5	µg/L	Q15728
	PCB-1232	ND	0.5	<0.25	µg/L	Q15728
	PCB-1242	ND	1	<0.5	µg/L	Q15728
	PCB-1248	ND	0.5	<0.25	µg/L	Q15728
	PCB-1254	ND	0.5	<0.25	µg/L	Q15728
	PCB-1260	ND	0.5	<0.25	µg/L	Q15728

Laboratory Control Sample

		Result	Spike Amount	Units	Recovery %	Recovery Range %	QC Batch ID
	PCB-1016	9.13	10	µg/L	91	60 - 140	Q15728
	PCB-1260	9.96	10	µg/L	100	60 - 140	Q15728

Matrix Spike

Sample ID:		Result	Spike Amount	Units	Recovery %	Recovery Range %	QC Batch ID
152772	PCB-1016	10.03	10	µg/L	100	60 - 140	Q15728
	PCB-1260	10.32	10	µg/L	103	60 - 140	Q15728

Matrix Spike Duplicate

Sample ID:		Result	Spike Amount	Units	Recovery %	Recovery Range %	RPD %	RPD Range %	QC Batch ID
152772	PCB-1016	9.92	10	µg/L	99	60 - 140	1	0 - 40	Q15728
	PCB-1260	9.72	10	µg/L	97	60 - 140	6	0 - 40	Q15728

#-See Case Narrative

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Phone: 704/529-6364 • Fax: 704/525-0409

CHAIN OF CUSTODY RECORD

PAGE 1 OF ___ QUOTE # TO ENSURE PROPER BILLING: ___

Client Company Name: WSI
Report To/Contact Name: Tara Rowland
Reporting Address: 4917 Waters Edge Dr. Ste. 235 Raleigh, NC 27606
Phone: 919-424-2242 Fax (Yes) (No): 919-424-2201
Email (Yes) (No) Email Address Tara.Rowland@westonsolutions.com
EDD Type: ✓ PDF ___ Excel ___ Other
Site Location Name: City of Durham
Site Location Physical Address: Durham Landfill

Project Name: City of Durham
Short Hold Analysis: (Yes) (No) UST Project: (Yes) (No)
*Please ATTACH any project specific reporting (QC LEVEL I II III IV) provisions and/or QC Requirements
Invoice To: Same
Address: Same

Purchase Order No./Billing Reference ___
Requested Due Date ☐ 1 Day ☐ 2 Days ☐ 3 Days ☐ 4 Days ☐ 5 Days
"Working Days" ☐ 6-9 Days ☐ Standard 10 days
Samples received after 15:00 will be processed next business day.
Turnaround time is based on business days, excluding weekends and holidays.
(SEE REVERSE FOR TERMS & CONDITIONS REGARDING SERVICES RENDERED BY PRISM LABORATORIES, INC. TO CLIENT)

LAB USE ONLY

Samples INTACT upon arrival?	✓	
Received ON WET ICE? Temp 11	✓	
PROPER PRESERVATIVES indicated?	✓	
Received WITHIN HOLDING TIMES?	✓	
CUSTODY SEALS INTACT?		
VOLATILES rec'd W/OUT HEADSPACE?		
PROPER CONTAINERS used?	✓	

TO BE FILLED IN BY CLIENT/SAMPLING PERSONNEL
Certification: NELAC ___ USACE ___ FL ___ NC ___ SC ___ OTHER ___ N/A ___
Water Chlorinated: YES ___ NO ___
Sample Iced Upon Collection: YES ___ NO ___

CLIENT SAMPLE DESCRIPTION	DATE COLLECTED	TIME COLLECTED MILITARY HOURS	MATRIX (SOIL, WATER OR SLUDGE)	SAMPLE CONTAINER *TYPE SEE BELOW	NO.	SIZE	PRESERVATIVES	8260	8081	8082	Sulfide	Cyanide	8270	REMARKS	PRISM LAB ID NO.
S-4	06/05/06	1010	Water	P	1	1L	NaOH/NaAsO2					1			152767
				P	1	1L	NaOH/ZnAc				1				
				A	2	1L	—						2		
				A	2	1L	—			2					
				A	2	1L	—		2						
				VOA	3	40ml	HCl	3							152768
S-3	06/05/06	1050	Water	VOA	3	40ml	HCl	3							
				A	2	1L	—		2						
				A	2	1L	—			2					
				P	1	1L	NaOH/ZnAc				1				

Sampler's Signature [signature] Sampled By (Print Name) TARA ROWLAND Affiliation Weston

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Upon relinquishing, this Chain of Custody is your authorization for Prism to proceed with the analyses as requested above. Any changes must be submitted in writing to the Prism Project Manager. There will be charges for any changes after analyses have been initialized.

Relinquished By: (Signature)	Received By: (Signature)	Date	Military/Hours
[signature]	[signature]	6/7/06	1115
[signature]	[signature]	6/7/06	1230
[signature]	[signature]	6/7/06	1670

Additional Comments:

PRISM USE ONLY
Site Arrival Time
Site Departure Time
Field Tech Fee
Mileage

Method of Shipment: ☐ Fed Ex ☑ UPS ☐ Hand-delivered ☐ Prism Field Service ☐ Other ___

NOTE: ALL SAMPLE COOLERS SHOULD BE TAPED SHUT WITH CUSTODY SEALS FOR TRANSPORTATION TO THE LABORATORY. SAMPLES ARE NOT ACCEPTED AND VERIFIED AGAINST COC UNTIL RECEIVED AT THE LABORATORY.

Log-In Group No. G06Ø6189

NPDES:	UST:	GROUNDWATER:	DRINKING WATER:	SOLID WASTE:	RCRA:	CERCLA	LANDFILL	OTHER:
☐ NC ☐ SC	☐ NC ☐ SC	☐ NC ☐ SC	☐ NC ☐ SC	☐ NC ☐ SC	☐ NC ☐ SC	☐ NC ☐ SC	☐ NC ☐ SC	☐ NC ☐ SC

SEE REVERSE FOR TERMS & CONDITIONS

WHITE - PRISM LABORATORIES, INC. YELLOW - PROJECT MANAGER PINK - CLIENT ORIGINAL

PRISM LABORATORIES, INC.

Full Service Analytical & Environmental Solutions

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Phone: 704/529-6364 • Fax: 704/525-0409

CHAIN OF CUSTODY RECORD

PAGE 2 OF ___ QUOTE # TO ENSURE PROPER BILLING: ___

Project Name: City of Durham
Short Hold Analysis: ✓ (Yes) (No) UST Project: (Yes) (No)
*Please ATTACH any project specific reporting (QC LEVEL I II III IV) provisions and/or QC Requirements
Invoice To: Same as contact
Address: Same as contact

Purchase Order No./Billing Reference ___
Requested Due Date ☐ 1 Day ☐ 2 Days ☐ 3 Days ☐ 4 Days ☐ 5 Days
"Working Days" ☐ 6-9 Days ☐ Standard 10 days
Samples received after 15:00 will be processed next business day.
Turnaround time is based on business days, excluding weekends and holidays.
(SEE REVERSE FOR TERMS & CONDITIONS REGARDING SERVICES RENDERED BY PRISM LABORATORIES, INC. TO CLIENT)

LAB USE ONLY

Samples INTACT upon arrival?	✓	
Received ON WET ICE? Temp: 1.1	✓	
PROPER PRESERVATIVES checked?	✓	
Received WITHIN HOLDING TIME?	✓	
CUSTODY SEALS INTACT?		✓
VOLATILES rec'd W/OUT HEADSPACE?	✓	
PROPER CONTAINERS used?	✓	

Client Company Name: WSI
Report To/Contact Name: Tara Rowland
Reporting Address: 4917 Waters Edge Dr. Ste. 235 Raleigh, NC 27606
Phone: 919-424-2242 Fax (Yes) (No): ___
Email (Yes) (No) Email Address Tara.Rowland@westonsolutions.com
EDD Type: ✓ PDF ___ Excel ___ Other
Site Location Name: City of Durham
Site Location Physical Address: Durham Landfill

TO BE FILLED IN BY CLIENT/SAMPLING PERSONNEL
Certification: NELAC ___ USACE ___ FL ___ NC ___ SC ___ OTHER ___ N/A ___
Water Chlorinated: YES ___ NO ___
Sample Iced Upon Collection: YES ___ NO ___

CLIENT SAMPLE DESCRIPTION	DATE COLLECTED	TIME COLLECTED MILITARY HOURS	MATRIX (SOIL, WATER OR SLUDGE)	SAMPLE CONTAINER *TYPE SEE BELOW	NO.	SIZE	PRESERVATIVES	8260	8270	8081	8082	Sulfide	Cyanide	REMARKS	PRISM LAB ID NO.
S-3	06/05/06	1050	Water	P	1		NaOH/NaAsO2						1		152768
↓	↓	↓	↓	A	2	1L	—		2						↓
S-1		1245	Water	VOA	3	40ml	HCl	3							152769
				A	2	1L	—		2						
				A	2	↓	—			2					
				A	2		—				2				
				P	1		NaOH/ZnAc					1			
↓	↓	↓	↓	P	1		NaOH/NaAsO2						1		↓
MW-4R	06/06/06	0835	Water	VOA	3	40ml	HCl	3							152770
↓	↓		↓	A	2	1L	—		2						↓

Sampler's Signature Tara Rowland Sampled By (Print Name) TARA ROWLAND Affiliation Weston

PRESS DOWN FIRMLY - 3 COPIES

Upon relinquishing this Chain of Custody is your authorization for Prism to proceed with the analyses as requested above. Any changes must be submitted in writing to the Prism Project Manager. There will be charges for any changes after analyses have been initialized.

Relinquished By: (Signature)	Received By: (Signature)	Date	Military/Hours
Tara Rowland	[signature]	6/7/06	1115
Relinquished By: (Signature)	Received By: (Signature)	6/7/06	1230
Relinquished By: (Signature)	Received For Prism Laboratories By: J. R. Bm	6/7/06	1630

Method of Shipment: NOTE: ALL SAMPLE COOLERS SHOULD BE TAPED SHUT WITH CUSTODY SEALS FOR TRANSPORTATION TO THE LABORATORY. SAMPLES ARE NOT ACCEPTED AND VERIFIED AGAINST COC UNTIL RECEIVED AT THE LABORATORY.
☐ Fed Ex ☐ UPS ☐ Hand-delivered ☐ Prism Field Service ☐ Other ___

Log-In Group No. G06060188

Additional Comments:

PRISM USE ONLY
Site Arrival Time:
Site Departure Time:
Field Tech Sign:
Mileage:

NPDES:	UST:	GROUNDWATER:	DRINKING WATER:	SOLID WASTE:	RCRA:	CERCLA	LANDFILL	OTHER:
☐ NC ☐ SC	☐ NC ☐ SC	☐ NC ☐ SC	☐ NC ☐ SC	☐ NC ☐ SC	☐ NC ☐ SC	☐ NC ☐ SC	☐ NC ☐ SC	☐ NC ☐ SC
☐ ___	☐ ___	☐ ___	☐ ___	☐ ___	☐ ___	☐ ___	☐ ___	☐ ___

*CONTAINER TYPE CODES: A = Amber C = Clear G = Glass P = Plastic: TL = Teflon-Lined Cap VOA = Volatile Organics Analysis (Zero Head Space)

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Full Service Analytical & Environmental Solutions
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Phone: 704/529-6364 • Fax: 704/525-0409

CHAIN OF CUSTODY RECORD

PAGE 3 OF ___ QUOTE # TO ENSURE PROPER BILLING: ___

Client Company Name: Weston Solutions, Inc.
Report To/Contact Name: Tara Rowland
Reporting Address: 4917 Waters Edge Dr. Ste. 235 Raleigh, NC 27606
Phone: 919-424-2242 Fax (Yes) (No): 919-424-2201
Email (Yes) (No) Email Address ___
EDD Type: ✓ PDF ___ Excel ___ Other ___
Site Location Name: City of Durham
Site Location Physical Address: Durham Landfill

Project Name: City of Durham
Short Hold Analysis: (Yes) (No) UST Project: (Yes) (No)
*Please ATTACH any project specific reporting (QC LEVEL I II III IV) provisions and/or QC Requirements
Invoice To: Tara Rowland
Address: Same

Purchase Order No./Billing Reference ___
Requested Due Date ☐ 1 Day ☐ 2 Days ☐ 3 Days ☐ 4 Days ☐ 5 Days
"Working Days" ☐ 6-9 Days ☐ Standard 10 days
Samples received after 15:00 will be processed next business day.
Turnaround time is based on business days, excluding weekends and holidays.
(SEE REVERSE FOR TERMS & CONDITIONS REGARDING SERVICES RENDERED BY PRISM LABORATORIES, INC. TO CLIENT)

LAB USE ONLY
Samples INTACT upon arrival? ✓
Received ON WET ICE? Temp 4°C ✓
PROPER PRESERVATIVES indicated? ✓
Received WITHIN HOLDING TIMES? ✓
CUSTODY SEALS INTACT? ✓
VOLATILES rec'd W/OUT HEADSPACE? ✓
PROPER CONTAINERS used? ✓

TO BE FILLED IN BY CLIENT/SAMPLING PERSONNEL
Certification: NELAC ___ USACE ___ FL ___ NC ___ SC ___ OTHER ___ N/A ___
Water Chlorinated: YES ___ NO ___
Sample Iced Upon Collection: YES ___ NO ___

CLIENT SAMPLE DESCRIPTION	DATE COLLECTED	TIME COLLECTED MILITARY HOURS	MATRIX (SOIL, WATER OR SLUDGE)	SAMPLE CONTAINER *TYPE SEE BELOW	NO.	SIZE	PRESERVATIVES	8260	8270	8081	8082	Sulfide	Cyanide	REMARKS	PRISM LAB ID NO.
MW-4R	06/06/06	0835	Water	A	2	1L	—			2					152770
				A	2	1L	—				2				
				P	1		NaOH/ZnAc					1			
				P	1		NaOH/NaAsO2						1		
MW-3	06/06/06	1030	Water	VOA	3		HCl	3							152771
				A	2		—		2						
				A	2		—			2					
				A	2		—				2				
				P	1		NaOH/ZnAc					1			
				P	1		NaOH/NaAsO2						1		

PRESS DOWN FIRMLY - 3 COPIES

Sampler's Signature: Tara Rowland Sampled By (Print Name): TARA ROWLAND Affiliation: Weston

Upon relinquishing, this Chain of Custody is your authorization for Prism to proceed with the analyses as requested above. Any changes must be submitted in writing to the Prism Project Manager. There will be charges for any changes after analyses have been initialized.

Relinquished By: (Signature)	Received By: (Signature)	Date	Military/Hours
Tara Rowland	[signature]	6/7/06	1115
Relinquished By: (Signature)	Received By: (Signature)	Date	
[signature]	[signature]	6/7/06	1230
Relinquished By: (Signature)	Received For Prism Laboratories By:	Date	
[signature]	A. R. Bm	6/7/06	1630

Method of Shipment: NOTE: ALL SAMPLE COOLERS SHOULD BE TAPED SHUT WITH CUSTODY SEALS FOR TRANSPORTATION TO THE LABORATORY. SAMPLES ARE NOT ACCEPTED AND VERIFIED AGAINST COC UNTIL RECEIVED AT THE LABORATORY.
☐ Fed Ex ☐ UPS ☐ Hand-delivered ☐ Prism Field Service ☐ Other ___

Log-In Group No.: G0606188

Additional Comments:

PRISM USE ONLY
Site Arrival Time
Site Departure Time
Total Travel Time
Mileage

NPDES:	UST:	GROUNDWATER:	DRINKING WATER:	SOLID WASTE:	RCRA:	CERCLA	LANDFILL	OTHER:
☐ NC ☐ SC	☐ NC ☐ SC	☐ NC ☐ SC	☐ NC ☐ SC	☐ NC ☐ SC	☐ NC ☐ SC	☐ NC ☐ SC	☐ NC ☐ SC	☐ NC ☐ SC
☐ ___	☐ ___	☐ ___	☐ ___	☐ ___	☐ ___	☐ ___	☐ ___	☐ ___

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CHAIN OF CUSTODY RECORD

PAGE 4 OF ___ QUOTE # TO ENSURE PROPER BILLING: ___

Client Company Name: WSI
Report To/Contact Name: Tara Rowland
Reporting Address: 4917 Waters Edge Dr. Ste. 235 Raleigh, NC 27606
Phone: 919-424-2242 Fax (Yes) (No): 919-424-2201
Email (Yes) (No) Email Address Tara.Rowland@westonsolutions.com
EDD Type: ✓ PDF ___ Excel ___ Other
Site Location Name: City of Durham
Site Location Physical Address: Durham Landfill

Project Name: City of Durham
Short Hold Analysis: (Yes) (No) UST Project: (Yes) (No)
*Please ATTACH any project specific reporting (QC LEVEL I II III IV) provisions and/or QC Requirements
Invoice To: Tara Rowland
Address: Same

Purchase Order No./Billing Reference ___
Requested Due Date ☐ 1 Day ☐ 2 Days ☐ 3 Days ☐ 4 Days ☐ 5 Days
"Working Days" ☐ 6-9 Days ☐ Standard 10 days
Samples received after 15:00 will be processed next business day.
Turnaround time is based on business days, excluding weekends and holidays.
(SEE REVERSE FOR TERMS & CONDITIONS REGARDING SERVICES RENDERED BY PRISM LABORATORIES, INC. TO CLIENT)

LAB USE ONLY
Samples INTACT upon arrival? ✓
Received ON WET ICE? Temp ___
PROPER PRESERVATIVES indicated? ✓
Received WITHIN HOLDING TIMES? ✓
CUSTODY SEALS INTACT? ✓
VOLATILES rec'd W/OUT HEADSPACE? ✓
PROPER CONTAINERS used? ✓

TO BE FILLED IN BY CLIENT/SAMPLING PERSONNEL
Certification: NELAC ___ USACE ___ FL ___ NC ___ SC ___ OTHER ___ N/A ___
Water Chlorinated: YES ___ NO ___
Sample Iced Upon Collection: YES ___ NO ___

CLIENT SAMPLE DESCRIPTION	DATE COLLECTED	TIME COLLECTED MILITARY HOURS	MATRIX (SOIL, WATER OR SLUDGE)	SAMPLE CONTAINER *TYPE SEE BELOW	NO.	SIZE	PRESERVATIVES	8260	8270	8081	8082	Inorganic	Cyanide	REMARKS	PRISM LAB ID NO.
MW-6R	06/06/06	1120	Water	VOA	3	40ml	HCl	3							152772
				A	2	1L	—		2						
				A	2	1L	—			2					
				A	2	1L	—				2				
				P	1		NaOH/ZnAc					1			
				P	1		NaOH/NaAsO2						1		
MW-2		1200		VOA	3	40ml	HCl	3							152773
				A	2	1L	—		2						
				A	2	1L	—			2					
				A	2	1L	—				2				

Sampler's Signature: [signature] Sampled By (Print Name): Tara Rowland Affiliation: Weston

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Upon relinquishing, this Chain of Custody is your authorization for Prism to proceed with the analyses as requested above. Any changes must be submitted in writing to the Prism Project Manager. There will be charges for any changes after analyses have been initialized.

Relinquished By: (Signature)	Received By: (Signature)	Date	Military/Hours
[signature]	[signature]	6/5/06	1115
Relinquished By: (Signature)	Received By: (Signature)	Date	
[signature]	[signature]	6/7/06	1230
Relinquished By: (Signature)	Received For Prism Laboratories By:	Date	
[signature]	[signature]	6/7/06	1630

Method of Shipment: NOTE: ALL SAMPLE COOLERS SHOULD BE TAPED SHUT WITH CUSTODY SEALS FOR TRANSPORTATION TO THE LABORATORY. SAMPLES ARE NOT ACCEPTED AND VERIFIED AGAINST COC UNTIL RECEIVED AT THE LABORATORY.
☐ Fed Ex ☐ UPS ☐ Hand-delivered ☐ Prism Field Service ☐ Other ___

Login Group No. G606189

Additional Comments:

PRISM USE ONLY
Site Arrival Time
Site Departure Time
Total Miles
Mileage

NPDES:	UST:	GROUNDWATER:	DRINKING WATER:	SOLID WASTE:	RCRA:	CERCLA	LANDFILL	OTHER:
☐ NC ☐ SC	☐ NC ☐ SC	☐ NC ☐ SC	☐ NC ☐ SC	☐ NC ☐ SC	☐ NC ☐ SC	☐ NC ☐ SC	☐ NC ☐ SC	☐ NC ☐ SC
☐ ___	☐ ___	☐ ___	☐ ___	☐ ___	☐ ___	☐ ___	☐ ___	☐ ___

*CONTAINER TYPE CODES: A = Amber C = Clear G = Glass P = Plastic: TL = Teflon-Lined Cap VOA = Volatile Organics Analysis (Zero Head Space)

SEE REVERSE FOR TERMS & CONDITIONS

ORIGINAL

PRISM LABORATORIES, INC.
Full Service Analytical & Environmental Solutions
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Phone: 704/529-6364 • Fax: 704/525-0409

CHAIN OF CUSTODY RECORD

PAGE 5 OF ___ QUOTE # TO ENSURE PROPER BILLING: ___

LAB USE ONLY

	YES	NO	N/A
Samples INTACT upon arrival?			
Received ON WET ICE? Temp 4.1	✓		
PROPER PRESERVATIVES indicated?	✓		
Received WITHIN HOLDING TIMES?	✓		
CUSTODY SEALS INTACT?			✓
VOLATILES rec'd W/OUT HEADSPACE?			✓
PROPER CONTAINERS used?	✓		

Client Company Name: WSI
Report To/Contact Name: Tara Rowland
Reporting Address: 4917 Waters Edge Dr. Ste. 235 Raleigh, NC 27606
Phone: 919-424-2242 Fax (Yes) (No): 919-424-2201
Email (Yes) (No) Email Address: Tara.Rowland@westonsolutions.com
EDD Type: ✓ PDF ___ Excel ___ Other
Site Location Name: City of Durham
Site Location Physical Address: Durham Landfill

Project Name: City of Durham
Short Hold Analysis: (Yes) (No) UST Project: (Yes) (No)
*Please ATTACH any project specific reporting (QC LEVEL I II III IV) provisions and/or QC Requirements
Invoice To: Tara Rowland
Address: Same as Reporting

Purchase Order No./Billing Reference ___
Requested Due Date ☐ 1 Day ☐ 2 Days ☐ 3 Days ☐ 4 Days ☐ 5 Days
"Working Days" ☐ 6-9 Days ☐ Standard 10 days
Samples received after 15:00 will be processed next business day.
Turnaround time is based on business days, excluding weekends and holidays.
(SEE REVERSE FOR TERMS & CONDITIONS REGARDING SERVICES RENDERED BY PRISM LABORATORIES, INC. TO CLIENT)

TO BE FILLED IN BY CLIENT/SAMPLING PERSONNEL
Certification: NELAC ___ USACE ___ FL ___ NC ___ SC ___ OTHER ___ N/A ___
Water Chlorinated: YES ___ NO ___
Sample Iced Upon Collection: YES ___ NO ___

CLIENT SAMPLE DESCRIPTION	DATE COLLECTED	TIME COLLECTED MILITARY HOURS	MATRIX (SOIL, WATER OR SLUDGE)	SAMPLE CONTAINER *TYPE SEE BELOW	NO.	SIZE	PRESERVATIVES	8260	8270	8081	8082	Sulfide	Cyanide	REMARKS	PRISM LAB ID NO.
MW-2	06/06/06	1200	Water	P	1		NaOH/ZnAc				1				152773
				P	1		NaOH/NaAsO2					1			
MW-5		1320		VOA	3		HCl	3							152774
				A	2		—		2						
				A	2		—			2					
				A	2		—				2				
				P	1		NaOH/ZnAc				1				
				P	1		NaOH/NaAsO2					1			
MW-8		1505		VOA	3		HCl	3							152775
				A	2		—		2						

Sampler's Signature: Tara Rowland Sampled By (Print Name): TARA ROWLAND Affiliation: Weston

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Upon relinquishing, this Chain of Custody is your authorization for Prism to proceed with the analyses as requested above. Any changes must be submitted in writing to the Prism Project Manager. There will be charges for any changes after analyses have been initialized.

Relinquished By: (Signature)	Received By: (Signature)	Date	Military/Hours
Tara Rowland	[signature]	6/7/06	1115
Relinquished By: (Signature)	Received By: (Signature)	Date	
[signature]	[signature]	6/7/06	1230
Relinquished By: (Signature)	Received For Prism Laboratories By:	Date	
[signature]	[signature]	6/7/06	1630

Method of Shipment: NOTE: ALL SAMPLE COOLERS SHOULD BE TAPED SHUT WITH CUSTODY SEALS FOR TRANSPORTATION TO THE LABORATORY. SAMPLES ARE NOT ACCEPTED AND VERIFIED AGAINST COC UNTIL RECEIVED AT THE LABORATORY.
☐ Fed Ex ☐ UPS ☐ Hand-delivered ☐ Prism Field Service ☐ Other ___

Log-In Group No. G0606188

Additional Comments:

PRISM USE ONLY
Site Arrival Time
Site Departure Time
Field Tech Sig.
Mileage

NPDES:	UST:	GROUNDWATER:	DRINKING WATER:	SOLID WASTE:	RCRA:	CERCLA	LANDFILL	OTHER:
☐ NC ☐ SC	☐ NC ☐ SC	☐ NC ☐ SC	☐ NC ☐ SC	☐ NC ☐ SC	☐ NC ☐ SC	☐ NC ☐ SC	☐ NC ☐ SC	☐ NC ☐ SC
☐ ___	☐ ___	☐ ___	☐ ___	☐ ___	☐ ___	☐ ___	☐ ___	☐ ___

SEE REVERSE FOR TERMS & CONDITIONS

TAINI PE C: A ber C ar G ss F stic: Teflon Cap = Volu Organic alysis Head space) O NAL

PRISM LABORATORIES, INC.

Full Service Analytical & Environmental Solutions

449 Springbrook Road • P.O. Box 240543 • Charlotte, NC 28224-0543
Phone: 704/529-6364 • Fax: 704/525-0409

CHAIN OF CUSTODY RECORD

PAGE 6 OF ___ QUOTE # TO ENSURE PROPER BILLING: ___

Client Company Name: WSI
Report To/Contact Name: Tara Rowland
Reporting Address: 4917 Waters Edge Dr Ste 235 Raleigh, NC 27606
Phone: 919-424-2242 Fax (Yes) (No): ___
Email (Yes) (No) Email Address: Tara.Rowland@westonsolutions.com
EDD Type: ✓ PDF ___ Excel ___ Other
Site Location Name: City of Durham
Site Location Physical Address: Durham Landfill

Project Name: City of Durham
Short Hold Analysis: (Yes) (No) UST Project: (Yes) (No)
*Please ATTACH any project specific reporting (QC LEVEL I II III IV) provisions and/or QC Requirements
Invoice To: Tara Rowland
Address: Same as Reporting

Purchase Order No./Billing Reference ___
Requested Due Date ☐ 1 Day ☐ 2 Days ☐ 3 Days ☐ 4 Days ☐ 5 Days
"Working Days" ☐ 6-9 Days ☐ Standard 10 days
Samples received after 15:00 will be processed next business day.
Turnaround time is based on business days, excluding weekends and holidays.
(SEE REVERSE FOR TERMS & CONDITIONS REGARDING SERVICES RENDERED BY PRISM LABORATORIES, INC. TO CLIENT)

LAB USE ONLY

Samples INTACT upon arrival? ✓
Received ON WET ICE? Temp: 4 ✓
PROPER PRESERVATIVES indicated? ✓
Received WITHIN HOLDING TIMES? ✓
CUSTODY SEALS INTACT? ✓
VOLATILES rec'd WOUT HEADSPACE? ✓
PROPER CONTAINERS used? ✓

TO BE FILLED IN BY CLIENT/SAMPLING PERSONNEL

Certification: NELAC ___ USACE ___ FL ___ NC ___ SC ___ OTHER ___ N/A ___
Water Chlorinated: YES ___ NO ___
Sample Iced Upon Collection: YES ___ NO ___

CLIENT SAMPLE DESCRIPTION	DATE COLLECTED	TIME COLLECTED MILITARY HOURS	MATRIX (SOIL, WATER OR SLUDGE)	SAMPLE CONTAINER *TYPE SEE BELOW	NO.	SIZE	PRESERVATIVES	8260	8270	8081	8082	Sulfide	Cyanide	REMARKS	PRISM LAB ID NO.
MW-8	06/06/06	1505	Water	A	2		—			2					152775
				A	2		—				2				
				P	1		NaOH/ZnAc					1			
				P	1		NaOH/NaAsO2						1		
P-6		1645		VOA	3		HCl	3							152776
				A	2		—		2						
				A	2		—			2					
				A	2		—				2				
				P	1		NaOH/ZnAc					1			
				P	1		NaOH/NaAsO2						1		

Sampler's Signature: Tara Rowland Sampled By (Print Name): TARA ROWLAND Affiliation: WESTON

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Upon relinquishing, this Chain of Custody is your authorization for Prism to proceed with the analyses as requested above. Any changes must be submitted in writing to the Prism Project Manager. There will be charges for any changes after analyses have been initialized.

Relinquished By: (Signature)	Received By: (Signature)	Date	Military/Hours
Tara Rowland	[signature]	6/7/06	1115
Relinquished By: (Signature)	Received By: (Signature)	Date	
[signature]	[signature]	6/7/06	1230
Relinquished By: (Signature)	Received For Prism Laboratories By:	Date	
[signature]	[signature]	6/7/06	1630

Additional Comments:

PRISM USE ONLY

Shipment Type: ___
Shipping Container: ___
Temperature: ___
Seals: ___

Method of Shipment: NOTE: ALL SAMPLE COOLERS SHOULD BE TAPED SHUT WITH CUSTODY SEALS FOR TRANSPORTATION TO THE LABORATORY. SAMPLES ARE NOT ACCEPTED AND VERIFIED AGAINST COC UNTIL RECEIVED AT THE LABORATORY.

☐ Fed Ex ☐ UPS ☐ Hand-delivered ☐ Prism Field Service ☐ Other ___

Log-In Group No.: G060618B

NPDES:	UST:	GROUNDWATER:	DRINKING WATER:	SOLID WASTE:	RCRA:	CERCLA	LANDFILL	OTHER:
☐ NC ☐ SC	☐ NC ☐ SC	☐ NC ☐ SC	☐ NC ☐ SC	☐ NC ☐ SC	☐ NC ☐ SC	☐ NC ☐ SC	☐ NC ☐ SC	☐ NC ☐ SC
☐ ___	☐ ___	☐ ___	☐ ___	☐ ___	☐ ___	☐ ___	☐ ___	☐ ___

*CONTAINER TYPE CODES: A = Amber C = Clear G = Glass P = Plastic TL = Teflon-Lined Cap VOA = Volatile Organics Analysis (Zero Head Space)

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ORIGINAL

PRISM LABORATORIES, INC.

Full Service Analytical & Environmental Solutions

449 Springbrook Road • P.O. Box 240543 • Charlotte, NC 28224-0543
Phone: 704/529-6364 • Fax: 704/525-0409

CHAIN OF CUSTODY RECORD

PAGE 7 OF 7 QUOTE # TO ENSURE PROPER BILLING: _____

Client Company Name: Weston
Report To/Contact Name: Tara Rowland
Reporting Address: _____

Phone: _____ Fax (Yes) (No): _____
Email (Yes) (No) Email Address _____
EDD Type: ___PDF___ Excel___ Other
Site Location Name: _____
Site Location Physical Address: _____

Project Name: _____
Short Hold Analysis: (Yes) (No) UST Project: (Yes) (No)
*Please ATTACH any project specific reporting (QC LEVEL I II III IV) provisions and/or QC Requirements
Invoice To: _____
Address: _____

Purchase Order No./Billing Reference _____
Requested Due Date ☐ 1 Day ☐ 2 Days ☐ 3 Days ☐ 4 Days ☐ 5 Days
"Working Days" ☐ 6-9 Days ☐ Standard 10 days
Samples received after 15:00 will be processed next business day.
Turnaround time is based on business days, excluding weekends and holidays.
(SEE REVERSE FOR TERMS & CONDITIONS REGARDING SERVICES RENDERED BY PRISM LABORATORIES, INC. TO CLIENT)

LAB USE ONLY

		NO	N/A
Samples INTACT upon arrival?	✓		
Received ON WET ICE? temp 4°	✓		
PROPER PRESERVATIVES indicated?	✓		
Received WITHIN HOLDING TIMES?	✓		
CUSTODY SEALS INTACT?			✓
VOLATILES rec'd W/OUT HEADSPACE?	✓		
PROPER CONTAINERS used?	✓		

TO BE FILLED IN BY CLIENT/SAMPLING PERSONNEL
Certification: NELAC____ USACE____ FL____ NC____
SC____ OTHER _____ N/A _____
Water Chlorinated: YES___ NO___
Sample Iced Upon Collection: YES___ NO___

CLIENT SAMPLE DESCRIPTION	DATE COLLECTED	TIME COLLECTED MILITARY HOURS	MATRIX (SOIL, WATER OR SLUDGE)	SAMPLE CONTAINER *TYPE SEE BELOW	NO.	SIZE	PRESERVATIVES	8260	8270	8081	8082	Sulfide	Cyanide	REMARKS	PRISM LAB ID NO.
MW-7R	06/06/06	1820	Water	VOA	3	40ml	HCl	3							152777
↓	↓	↓	↓	A	2	1L	—		2						↓
				A	2	1L	—			2					
				A	2	1L	—				2				
				P	1		NaOH/ZnAc					1			
				P	1		NaOH/NaAsO2						1		—
TB								✓							152778

Sampler's Signature Tara Rowland Sampled By (Print Name) TARA ROWLAND Affiliation Weston

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Upon relinquishing, this Chain of Custody is your authorization for Prism to proceed with the analyses as requested above. Any changes must be submitted in writing to the Prism Project Manager. There will be charges for any changes after analyses have been initialized.

Relinquished By: (Signature)	Received By: (Signature)	Date	Military/Hours
Tara Rowland	John Wood	6/7/06	1115
Relinquished By: (Signature)	Received By: (Signature)	6/7/06	1230
Relinquished By: (Signature)	Received For Prism Laboratories By: J. R. Bm	6/7/06	1630

Additional Comments:

PRISM USE ONLY
Site Arrival Time:
Site Departure Time:
Field Tech Fee:
Mileage:

Method of Shipment: NOTE: ALL SAMPLE COOLERS SHOULD BE TAPED SHUT WITH CUSTODY SEALS FOR TRANSPORTATION TO THE LABORATORY. SAMPLES ARE NOT ACCEPTED AND VERIFIED AGAINST COC UNTIL RECEIVED AT THE LABORATORY.

☐ Fed Ex ☐ UPS ☐ Hand-delivered ☐ Prism Field Service ☐ Other _____

Log-In Group No. G06060188

NPDES:	UST:	GROUNDWATER:	DRINKING WATER:	SOLID WASTE:	RCRA:	CERCLA	LANDFILL	OTHER:
☐ NC ☐ SC	☐ NC ☐ SC	☐ NC ☐ SC	☐ NC ☐ SC	☐ NC ☐ SC	☐ NC ☐ SC	☐ NC ☐ SC	☐ NC ☐ SC	☐ NC ☐ SC

SEE REVERSE FOR TERMS & CONDITIONS

APPENDIX B:

Calculations:

- Statistical Analysis Calculations
- Groundwater Gradient and Velocity Calculations

TABLE B-1

Preliminary Evaluation: Background Well Inorganic Data

Appendix II Groundwater Detection Monitoring Inorganic Constituents

City of Durham Closed Landfill

Constituents	Date Sampled	DL ug/L	P-6 (BKGD) ug/L	NON-PARAMETRIC BKGD. VALUE ug/L
INORGANICS				
Antimony, total	Sep-94	5	BDL	0 [a]
	Dec-94	5	BDL	5 [b] 5
	Feb-95	5	BDL	25 = n = QTY. ANALYSES
	Mar-95	5	BDL	25 = QTY. CENSORED DATA
	Jun-96	5	BDL	0 = QTY. UNCENSORED DATA
	Nov-96	5	BDL	100 = % CENSORED DATA
	Mar-97	5	BDL	
	Oct-97	5	BDL	
	May-98	5	BDL	
	Dec-98	5	BDL	
	Jun-99	5	BDL	
	Dec-99	5	BDL	
	Jun-00	5	BDL	
	Dec-00	5	BDL	
	Jun-01	5	BDL	
	Dec-01	5	BDL	
	Jun-02	5	BDL	
	Dec-02	5	BDL	
	Jun-03	5	BDL	
	Dec-03	5	BDL	
	Jun-04	5	BDL	
	Dec-04	5	BDL	
	Jun-05	5	BDL	
	Dec-05	5	BDL	
	Jun-06	5	BDL	
Arsenic, total	Sep-94		11	11 [a]
	Dec-94	5	BDL	11 [b] 11
	Feb-95		9.1	26 = n = QTY. ANALYSES
	Mar-95	5	BDL	21 = QTY. CENSORED DATA
	Nov-95	5	BDL	5 = QTY. UNCENSORED DATA
	Jun-96	5	BDL	81 = % CENSORED DATA
	Nov-96	5	BDL	
	Mar-97	5	BDL	
	Oct-97	5	BDL	
	May-98	5	BDL	
	Dec-98		5	
	Jun-99		6	
	Dec-99	5	BDL	
	Jun-00		6	
	Dec-00	5	BDL	
	Jun-01	5	BDL	
	Dec-01	5	BDL	
	Jun-02	5	BDL	
	Dec-02	5	BDL	
	Jun-03	5	BDL	
	Dec-03	5	BDL	
	Jun-04	5	BDL	
	Dec-04	5	BDL	
	Jun-05	5	BDL	
	Dec-05	5	BDL	
	Jun-06	5	BDL	

TABLE B-1 (continued)
Preliminary Evaluation: Background Well Inorganic Data
Appendix I Groundwater Detection Monitoring Inorganic Constituents
City of Durham Closed Landfill

Constituents	Date Sampled	DL ug/L	P-6 (BKGD) ug/L	NON-PARAMETRIC BKGD. VALUE ug/L
INORGANICS				
Barium, total	Sep-94		1834	5664 [a]
	Dec-94		760	5664 [b] n/a
	Feb-95		2648	26 = n = QTY. ANALYSES
	Mar-95		524	0 = QTY. CENSORED DATA
	Nov-95		970	26 = QTY. UNCENSORED DATA
	Jun-96		891	0 = % CENSORED DATA
	Nov-96		1555	
	Mar-97		850	*Go to normality test and*
	Oct-97		840	*prediction interval*
	May-98		779	*calculations.*
	Dec-98		2390	
	Jun-99		1850	
	Dec-99		944	
	Jun-00		2488	
	Dec-00		1826	
	Jun-01		2804	
	Dec-01		965	
	Jun-02		849	
	Dec-02		620	
	Jun-03		432	
	Dec-03		2881	
	Jun-04		5664	
	Dec-04		578	
	Jun-05		952	
	Dec-05		435	
	Jun-06		575	
Beryllium, total	Sep-94		8.1	18 [a]
	Dec-94		3.1	18 [b] n/a
	Feb-95		8.6	26 = n = QTY. ANALYSES
	Mar-95		1.5	9 = QTY. CENSORED DATA
	Nov-95		18	17 = QTY. UNCENSORED DATA
	Jun-96		3	35 = % CENSORED DATA
	Nov-96		5	
	Mar-97	1	BDL	*Go to normality test and*
	Oct-97		1.5	*prediction interval*
	May-98		1	*calculations.*
	Dec-98		2	
	Jun-99		5	
	Dec-99		2	
	Jun-00		7	
	Dec-00		2	
	Jun-01		4	
	Dec-01	1	BDL	
	Jun-02	1	BDL	
	Dec-02	1	BDL	
	Jun-03	1	BDL	
	Dec-03		2	
	Jun-04		2	
	Dec-04	1	BDL	
	Jun-05	1	BDL	
	Dec-05	1	BDL	
	Jun-06	1	BDL	

TABLE B-1 (continued)
Preliminary Evaluation: Background Well Inorganic Data
Appendix I Groundwater Detection Monitoring Inorganic Constituents
City of Durham Closed Landfill

Constituents	Date Sampled	DL ug/L	P-6 (BKGD) ug/L	NON-PARAMETRIC BKGD. VALUE ug/L
INORGANICS				
Cadmium, total	Sep-94	1	BDL	2.2 [a]
	Dec-94	1	BDL	2.2 [b] **2.2**
	Feb-95		2.2	26 = n = QTY. ANALYSES
	Mar-95	1	BDL	23 = QTY. CENSORED DATA
	Nov-95	1	BDL	3 = QTY. UNCENSORED DATA
	Jun-96	1	BDL	88 = % CENSORED DATA
	Nov-96	1	BDL	
	Mar-97	1	BDL	
	Oct-97	1	BDL	
	May-98	1	BDL	
	Dec-98	1	BDL	
	Jun-99	1	BDL	
	Dec-99	1	BDL	
	Jun-00	1	BDL	
	Dec-00	1	BDL	
	Jun-01	1	BDL	
	Dec-01	1	BDL	
	Jun-02	1	BDL	
	Dec-02	1	BDL	
	Jun-03	1	BDL	
	Dec-03	1	BDL	
	Jun-04	1	1	
	Dec-04		1	
	Jun-05	1	BDL	
	Dec-05	1	BDL	
	Jun-06	1	BDL	
Chromium, total	Sep-94		207	297 [a]
	Dec-94		71	297 [b] **n/a**
	Feb-95		271	26 = n = QTY. ANALYSES
	Mar-95		5.8	2 = QTY. CENSORED DATA
	Nov-95		40	24 = QTY. UNCENSORED DATA
	Jun-96		65	8 = % CENSORED DATA
	Nov-96		133	
	Mar-97	5	BDL	*Go to normality test and*
	Oct-97		65	*prediction interval*
	May-98		37	*calculations.*
	Dec-98		176	
	Jun-99		46	
	Dec-99		121	
	Jun-00		297	
	Dec-00		102	
	Jun-01		41	
	Dec-01		54	
	Jun-02		21	
	Dec-02		32	
	Jun-03		88	
	Dec-03		89	
	Jun-04		104	
	Dec-04		11	
	Jun-05		32	
	Dec-05	5	BDL	
	Jun-06		69	

TABLE B-1 (continued)
Preliminary Evaluation: Background Well Inorganic Data
Appendix I Groundwater Detection Monitoring Inorganic Constituents
City of Durham Closed Landfill

Constituents	Date Sampled	DL ug/L	P-6 (BKGD) ug/L	NON-PARAMETRIC BKGD. VALUE ug/L
INORGANICS				
Cobalt, total	Dec-94		BDL	91 [a]
	Feb-95		30	91 [b] n/a
	Mar-95		BDL	22 = n = QTY. ANALYSES
	Nov-95		12	6 = QTY. CENSORED DATA
	Jun-96	10	BDL	16 = QTY. UNCENSORED DATA
	Nov-96		34	27 = % CENSORED DATA
	Mar-97		16	
	Oct-97		20.6	*Go to normality test and*
	May-98		45	*prediction interval*
	Dec-98	25	BDL	*calculations.*
	Jun-99		34	
	Dec-99		16	
	Jun-00		32	
	Dec-00	10	BDL	
	Jun-01		50	
	Dec-01		33	
	Jun-02		16	
	Dec-02		14	
	Jun-03	10	BDL	
	Dec-03		87	
	Jun-04		91	
	Dec-04		7.4	
	Jun-05		--	
	Dec-05		--	
	Jun-06		--	
Copper, total	Sep-94		109	211 [a]
	Dec-94		44	211 [b] n/a
	Feb-95		150	26 = n = QTY. ANALYSES
	Mar-95		17	2 = QTY. CENSORED DATA
	Nov-95		20	24 = QTY. UNCENSORED DATA
	Jun-96		62	8 = % CENSORED DATA
	Nov-96		73	
	Mar-97	5	BDL	*Go to normality test and*
	Oct-97		27	*prediction interval*
	May-98		30	*calculations.*
	Dec-98		60	
	Jun-99		69	
	Dec-99		30	
	Jun-00		101	
	Dec-00		48	
	Jun-01		95	
	Dec-01		28	
	Jun-02		30	
	Dec-02		16	
	Jun-03		52	
	Dec-03		92	
	Jun-04		211	
	Dec-04		7	
	Jun-05		28	
	Dec-05	2	BDL	
	Jun-06		6	
Cyanide [1]	Dec-98	10	BDL	5.0 [a]
	Jun-99	2	BDL	5 [b] 5.0
	Dec-99	2	BDL	16 = n = QTY. ANALYSES
	Jun-00	2	BDL	13 = QTY. CENSORED DATA
	Dec-00	2	BDL	3 = QTY. UNCENSORED DATA
	Jun-01	2	BDL	81 = % CENSORED DATA
	Dec-01	2	BDL	
	Jun-02	2	BDL	
	Dec-02	2	BDL	
	Jun-03	2	BDL	
	Dec-03	2	BDL	
	Jun-04	2	BDL	
	Dec-04	2	BDL	
	Jun-05		2.3	
	Dec-05		5.0	
	Jun-06		3.6	

TABLE B-1 (continued)
Preliminary Evaluation: Background Well Inorganic Data
Appendix I Groundwater Detection Monitoring Inorganic Constituents
City of Durham Closed Landfill

Constituents	Date Sampled	DL ug/L	P-6 (BKGD) ug/L	NON-PARAMETRIC BKGD. VALUE ug/L
INORGANICS				
Lead, total	Sep-94		40	83 [a]
	Dec-94		30	83 [b] n/a
	Feb-95		76	26 = n = QTY. ANALYSES
	Mar-95		11	5 = QTY. CENSORED DATA
	Nov-95		14	21 = QTY. UNCENSORED DATA
	Jun-96		25	19 = % CENSORED DATA
	Nov-96		30	
	Mar-97	5	BDL	*Go to normality test and*
	Oct-97		16	*prediction interval*
	May-98		11	*calculations.*
	Dec-98		36	
	Jun-99		19	
	Dec-99		14	
	Jun-00		37	
	Dec-00		20	
	Jun-01		35	
	Dec-01		23	
	Jun-02		6	
	Dec-02	5	BDL	
	Jun-03	5	BDL	
	Dec-03		35	
	Jun-04		83	
	Dec-04	5	BDL	
	Jun-05		13	
	Dec-05	5	BDL	
	Jun-06		35	
Mercury, total [1]	Dec-98	200	BDL	0 [a]
	Jun-99	200	BDL	200 [b] 200
				2 = n = QTY. ANALYSES
				2 = QTY. CENSORED DATA
				0 = QTY. UNCENSORED DATA
				100 = % CENSORED DATA
Nickel, total	Sep-94		17	343 [a]
	Dec-94		56	343 [b] n/a
	Feb-95		211	26 = n = QTY. ANALYSES
	Mar-95		30	1 = QTY. CENSORED DATA
	Nov-95		32	25 = QTY. UNCENSORED DATA
	Jun-96		49	4 = % CENSORED DATA
	Nov-96		103	
	Mar-97		50	*Go to normality test and*
	Oct-97		52	*prediction interval*
	May-98		43	*calculations.*
	Dec-98		124	
	Jun-99		126	
	Dec-99		227	
	Jun-00		343	
	Dec-00		144	
	Jun-01		88	
	Dec-01		54	
	Jun-02		21	
	Dec-02		33	
	Jun-03		26	
	Dec-03		99	
	Jun-04		130	
	Dec-04		10	
	Jun-05		35	
	Dec-05	10	BDL	
	Jun-06		61	

TABLE B-1 (continued)
Preliminary Evaluation: Background Well Inorganic Data
Appendix I Groundwater Detection Monitoring Inorganic Constituents
City of Durham Closed Landfill

Constituents	Date Sampled	DL ug/L	P-6 (BKGD) ug/L	NON-PARAMETRIC BKGD. VALUE ug/L
INORGANICS				
Selenium, total	Sep-94	5	BDL	0 [a]
	Dec-94	5	BDL	5 [b] **5**
	Feb-95	5	BDL	26 = n = QTY. ANALYSES
	Mar-95	5	BDL	26 = QTY. CENSORED DATA
	Nov-95	5	BDL	0 = QTY. UNCENSORED DATA
	Jun-96	5	BDL	100 = % CENSORED DATA
	Nov-96	5	BDL	
	Mar-97	5	BDL	
	Oct-97	5	BDL	
	May-98	5	BDL	
	Dec-98	5	BDL	
	Jun-99	5	BDL	
	Dec-99	5	BDL	
	Jun-00	5	BDL	
	Dec-00	5	BDL	
	Jun-01	5	BDL	
	Dec-01	5	BDL	
	Jun-02	5	BDL	
	Dec-02	5	BDL	
	Jun-03	5	BDL	
	Dec-03	5	BDL	
	Jun-04	5	BDL	
	Dec-04	5	BDL	
	Jun-05	5	BDL	
	Dec-05	5	BDL	
	Jun-06	5	BDL	
Silver, total	Sep-94	1	BDL	8 [a]
	Dec-94	1	BDL	8 [b] **8**
	Feb-95	1	BDL	26 = n = QTY. ANALYSES
	Mar-95	1	BDL	23 = QTY. CENSORED DATA
	Nov-95	1	BDL	3 = QTY. UNCENSORED DATA
	Jun-96	1	BDL	88 = % CENSORED DATA
	Nov-96		5	
	Mar-97	1	BDL	
	Oct-97	1	BDL	
	May-98	1	BDL	
	Dec-98		1	
	Jun-99	1	BDL	
	Dec-99	1	BDL	
	Jun-00	1	BDL	
	Dec-00	1	BDL	
	Jun-01	1	BDL	
	Dec-01	1	BDL	
	Jun-02	1	BDL	
	Dec-02	1	BDL	
	Jun-03	1	BDL	
	Dec-03	1	BDL	
	Jun-04		8	
	Dec-04	1	BDL	
	Jun-05	1	BDL	
	Dec-05	1	BDL	
	Jun-06	1	BDL	
Sulfide [1]	Dec-98	1000	BDL	13000 [a]
	Jun-99	1300	BDL	13000 [b] **13000**
	Dec-99		1400	14 = n = QTY. ANALYSES
	Jun-00		400	8 = QTY. CENSORED DATA
	Dec-00		400	6 = QTY. UNCENSORED DATA
	Jun-01		600	57 = % CENSORED DATA
	Dec-01	400	BDL	
	Jun-02	200	BDL	
	Dec-02	200	BDL	
	Jun-03	200	BDL	
	Dec-03		2000	
	Jun-04	2000	BDL	
	Dec-04	2000	BDL	
	Jun-05		13000	
	Dec-05	2000	BDL	
	Jun-06	2000	BDL	

TABLE B-1 (continued)
Preliminary Evaluation: Background Well Inorganic Data
Appendix I Groundwater Detection Monitoring Inorganic Constituents
City of Durham Closed Landfill

Constituents	Date Sampled	DL ug/L	P-6 (BKGD) ug/L	NON-PARAMETRIC BKGD. VALUE ug/L
INORGANICS				
Thallium, total	Sep-94	5	BDL	2 [a]
	Dec-94	5	BDL	2 [b] **2**
	Feb-95	5	BDL	26 = n = QTY. ANALYSES
	Mar-95	5	BDL	25 = QTY. CENSORED DATA
	Nov-95	5	BDL	1 = QTY. UNCENSORED DATA
	Jun-96	5	BDL	96 = % CENSORED DATA
	Nov-96	5	BDL	
	Mar-97	5	BDL	
	Oct-97	5	BDL	
	May-98	5	BDL	
	Dec-98	5	BDL	
	Jun-99	1	BDL	
	Dec-99	1	BDL	
	Jun-00	1	BDL	
	Dec-00	1	BDL	
	Jun-01	1	BDL	
	Dec-01	1	BDL	
	Jun-02	1	BDL	
	Dec-02	1	BDL	
	Jun-03	1	BDL	
	Dec-03	1	BDL	
	Jun-04		2	
	Dec-04	1	BDL	
	Jun-05	1	BDL	
	Dec-05	1	BDL	
	Jun-06	1	BDL	
Tin, total [1]	Dec-98	100	BDL	0 [a]
	Jun-99	100	BDL	100 [b] **100**
	Dec-04	50	BDL	3 = n = QTY. ANALYSES
				3 = QTY. CENSORED DATA
				0 = QTY. UNCENSORED DATA
				100 = % CENSORED DATA
Vanadium, total	Sep-94		203	206 [a]
	Dec-94		51	206 [b] **n/a**
	Feb-95		206	26 = n = QTY. ANALYSES
	Mar-95		16	2 = QTY. CENSORED DATA
	Nov-95		37	24 = QTY. UNCENSORED DATA
	Jun-96		50	8 = % CENSORED DATA
	Nov-96		141	
	Mar-97		141	*Go to normality test and*
	Oct-97		65	*prediction interval*
	May-98		20	*calculations.*
	Dec-98		110	
	Jun-99		45	
	Dec-99		38	
	Jun-00		109	
	Dec-00		26	
	Jun-01		22	
	Dec-01		25	
	Jun-02		12	
	Dec-02		7	
	Jun-03		5	
	Dec-03		46	
	Jun-04		59	
	Dec-04		8	
	Jun-05		27	
	Dec-05	5	BDL	
	Jun-06	5	BDL	

TABLE B-1 (continued)
Preliminary Evaluation: Background Well Inorganic Data
Appendix I Groundwater Detection Monitoring Inorganic Constituents
City of Durham Closed Landfill

Constituents	Date Sampled	DL ug/L	P-6 (BKGD) ug/L	NON-PARAMETRIC BKGD. VALUE ug/L
INORGANICS				
Zinc, total	Sep-94		303	477 [a]
	Dec-94		106	477 [b] n/a
	Feb-95		477	25 = n = QTY. ANALYSES
	Mar-95		291	2 = QTY. CENSORED DATA
	Nov-95		65	23 = QTY. UNCENSORED DATA
	Jun-96		125	8 = % CENSORED DATA
	Nov-96		134	
	Mar-97	10	BDL	*Go to normality test and*
	Oct-97		96	*prediction interval*
	May-98		20	*calculations.*
	Dec-98		121	
	Jun-99		77	
	Dec-99		100	
	Jun-00		267	
	Dec-00		100	
	Jun-01		80	
	Dec-01		73	
	Jun-02		41	
	Dec-02		27	
	Jun-03		12	
	Dec-03		261	
	Jun-04		369	
	Dec-04		17	
	Jun-05		56	
	Dec-05	10	BDL	
	Jun-06		14	

This analytical data extracted from Table 1.

[1] NC Appendix II Assessment monitoring constituent not included in Appendix I list.

[a] maximum concentration reported by background Well P-6 for that constituent.

[b] = the maximum DL, if [a] = 0. If [a] does NOT equal 0, then [b] should equal [a].

BDL - concentration below laboratory detection limit.

Censored data - concentrations below the detection limit (BDL).

DL - laboratory detection limit.

n/a - less than 50% data censored; must calculate prediction interval.

"0" indicates that all sample concentrations for that constituent were below detection limit.

I. BARIUM: Shapiro-Wilk Normality Test

Background Well P-6

City of Durham Closed Landfill

Rank i	ug/L Ascending $X_{(i)}$	ug/L Descending $X_{(n-i+1)}$	$X_{(n-i+1)}-X_{(i)}$	USEPA (1992) Table A-1: $a_{(n-i+1)}$	b_i
1	432	5664	5232	0.4366	2284
2	435	2881	2446	0.3018	738
3	524	2804	2280	0.2522	575
4	575	2648	2073	0.2152	446
5	578	2488	1910	0.1848	353
6	620	2390	1770	0.1584	280
7	635	1850	1215	0.1346	164
8	760	1834	1074	0.1128	121
9	779	1826	1047	0.0923	97
10	840	1555	715	0.0728	52
11	849	970	121	0.0540	7
12	850	965	115	0.0358	4
13	891	952	61	0.0178	1
14	944	944			
15	952	891			
16	965	850			
17	970	849			
18	1555	840			
19	1826	779			
20	1834	760			
21	1850	635			
22	2390	620			
23	2488	578			
24	2648	575			
25	2804	524			
26	2881	435			
27	5664	432		TOTAL b =	5122

Sample SD= 1153.4

W_{calc}= 0.759

W_{crit} @0.05 = 0.923 (USEPA ,1992:Table A-2)

Normal? NO

The test statistic W is found using:

$$W = (b/(SD \times SQRT(n-1)))^2$$

where:

b = summation of $(X_{(n-i+1)}-X_{(i)})A_{(n-i+1)}$

SD = standard deviation of the data group

n = number of samples

SQRT = square root

Compare this value to the critical value in Table A-2 (USEPA, 1992)

If $W_{calc.} > W_{crit.}$ then data set is normal.

II. BARIUM: Shapiro-Wilk Normality Test LOG-TRANSFORMED DATA

Background Well P-6

City of Durham Closed Landfill

Rank i	Ascending LOG X(i)	Descending LOG X(n-i+1)	X(n-i+1)-X(i)	USEPA (1992) Table A-1 a(n-i+1)	bi
1	2.635	3.753	1.1176	0.4366	0.4880
2	2.638	3.460	0.8211	0.3018	0.2478
3	2.719	3.448	0.7284	0.2522	0.1837
4	2.760	3.423	0.6633	0.2152	0.1427
5	2.762	3.396	0.6339	0.1848	0.1171
6	2.792	3.378	0.5860	0.1584	0.0928
7	2.803	3.267	0.4644	0.1346	0.0625
8	2.881	3.263	0.3826	0.1128	0.0432
9	2.892	3.262	0.3700	0.0923	0.0341
10	2.924	3.192	0.2675	0.0728	0.0195
11	2.929	2.987	0.0579	0.0540	0.0031
12	2.929	2.985	0.0551	0.0358	0.0020
13	2.950	2.979	0.0288	0.0178	0.0005
14	2.975	2.975			
16	2.979	2.950			
17	2.985	2.929			
18	2.987	2.929			
18	3.192	2.924			
19	3.262	2.892			
20	3.263	2.881			
21	3.267	2.803			
22	3.378	2.792			
23	3.396	2.762			
24	3.423	2.760			
25	3.448	2.719			
26	3.460	2.638			
27	3.753	2.635		TOTAL b =	1.437

Sample SD= 0.2920

W_{calc}= 0.931

W_{crit} @0.05 = 0.923 (USEPA ,1992:Table A-2)

LOG-Normal? YES

III. BARIUM: Aitchison's Adjustment
to Log-Normal Data Set
Background Well P-6
City of Durham Closed Landfill

Background Well Data

Location	Date Sampled	Conc. ug/L	LOG Conc.
P-6	Sep-94	1834	3.26
	Dec-94	760	2.88
	Feb-95	2648	3.42
	Mar-95	524	2.72
	Nov-95	970	2.99
	Jun-96	891	2.95
	Nov-96	1555	3.19
	Mar-97	850	2.93
	Oct-97	840	2.92
	May-98	779	2.89
	Dec-98	2390	3.38
	Jun-99	1850	3.27
	Dec-99	944	2.97
	Jun-00	2488	3.40
	Dec-00	1826	3.26
	Jun-01	2804	3.45
	Dec-01	965	2.98
	Jun-02	849	2.93
	Dec-02	620	2.79
	Jun-03	432	2.64
	Dec-03	2881	3.46
	Jun-04	5664	3.75
	Dec-04	578	2.76
	Jun-05	952	2.98
	Dec-05	435	2.64
	Jun-06	575	2.76
		QTY. ND = d =	0
		n =	26
		μ =	3.06
		SD =	0.29

AITCHISON'S ADJ. MEAN, $\mu_{(a)}$ =	**3.06**
$(SD)^2$ =	0.086
μ^2 =	9.37
$(SD)_a^2$ =	0.086
AITCHISON'S ADJ. STAND. DEV. $(SD)_a$ =	**0.29**

The **Adjusted Mean**, $\mu_{(a)}$, is found using

$\mu_{(a)} = (1-d/n) \times \mu$

where:

d = number non-detected values

n = total number samples

μ = mean of detected values

The **Adjusted Standard Deviation**, $(SD)_a$, is found using

$(SD)_a^2 = n-(d+1)/(n-1)(SD)^2 + (d/n)(n-d/n-1)(\mu)^2$

where:

n = total number samples

d = number non-detected values

SD = standard deviation of detected values

IV. BARIUM: Parametric Prediction Interval using Aitchison's-Adjusted Data

The background

$LOG\ (UPL) = \mu_{(a)} + t_{(n-1,\ k,\ 0.95)} \times (SD)_a \times SQRT(1/m+1/n)$

Where:

$t_{(n-1,\ k,\ 0.95)}$ = 1-sided Bonferroni t-statistic (Gibbons, 1994: Table 1.2)

n-1 = degrees of freedom (number of samples - 1)

k = number of (downgradient) samples per event =future comparisons

95% = confidence interval

SQRT = square root

m = number independent samples from each sampling point

n = number of background samples

For:

$\mu_{(a)}$ =	3.06
$(SD)_a$ =	0.29
k =	7
n =	26
$t_{(n-1,\ k,\ 0.95)}$ =	2.620
m =	1
LOG (UPL) =	3.84
BARIUM UPL =	**6987** ug/L

I. BERYLLIUM: Shapiro-Wilk Normality Test
Background Well P-6
City of Durham Closed Landfill

Rank i	ug/L Ascending $X_{(i)}$	ug/L Descending $X_{(n-i+1)}$	$X_{(n-i+1)}-X_{(i)}$	USEPA (1992) Table A-1: $a_{(n-i+1)}$	b_i
1	1.0	18.0	17.000	0.4968	8.446
2	1.5	8.6	7.100	0.3273	2.324
3	1.5	8.1	6.600	0.2540	1.676
4	2.0	7.0	5.000	0.1988	0.994
5	2.0	5.0	3.000	0.1524	0.457
6	2.0	5.0	3.000	0.1109	0.333
7	2.0	4.0	2.000	0.0725	0.145
8	2.0	3.1	1.100	0.0359	0.039
9	3.0	3.0			
10	3.1	2.0			
11	4.0	2.0			
12	5.0	2.0			
13	5.0	2.0			
14	7.0	2.0			
15	8.1	1.5			
16	8.6	1.5			
17	18.0	1.0		TOTAL b =	14.41
Sample SD=	4.22				

W_{calc}= 0.730
$W_{crit.}$@0.05 = 0.892 (USEPA ,1992:Table A-2)
Normal? NO

The test statistic W is found using:

$$W = (b/(SD \times SQRT(n-1)))^2$$

where:

b = summation of $(X_{(n-i+1)}-X_{(i)})A_{(n-i+1)}$
SD = standard deviation of the data group
n = number of samples
SQRT = square root

Compare this value to the critical value in Table A-2 (USEPA, 1992)
If $W_{calc.} > W_{crit}$, then data set is normal.

LOG-TRANSFORMED DATA
II. BERYLLIUM: Shapiro-Wilk Normality Test
Background Well P-6
City of Durham Closed Landfill

Rank i	Ascending LOG $X_{(i)}$	Descending LOG $X_{(n-i+1)}$	$X_{(n-i+1)}-X_{(i)}$	USEPA (1992) Table A-1 $a_{(n-i+1)}$	b_i
1	0.000	1.255	1.255	0.4968	0.6236
2	0.176	0.934	0.758	0.3273	0.2482
3	0.176	0.908	0.732	0.2540	0.1860
4	0.301	0.845	0.544	0.1988	0.1082
5	0.301	0.699	0.398	0.1524	0.0606
6	0.301	0.699	0.398	0.1109	0.0441
7	0.301	0.602	0.301	0.0725	0.0218
8	0.301	0.491	0.190	0.0359	0.0068
9	0.477	0.477			
10	0.491	0.301			
11	0.602	0.301			
12	0.699	0.301			
13	0.699	0.301			
14	0.845	0.301			
15	0.908	0.176			
16	0.934	0.176			
17	1.255	0.000		TOTAL b =	1.299
Sample SD=	0.3344				

W_{calc}= 0.944
$W_{crit.}$@0.05 = 0.892 (USEPA ,1992:Table A-2)
LOG-Normal? YES

III. BERYLLIUM: Aitchison's Adjustment
to Log-Normal Data Set
Background Well P-6
City of Durham Closed Landfill

Background Well Data

Location	Date Sampled	Conc. ug/L	LOG Conc.
P-6	Sep-94	8.1	0.91
	Dec-94	3.1	0.49
	Feb-95	8.6	0.93
	Mar-95	1.5	0.18
	Nov-95	18.0	1.26
	Jun-96	3.0	0.48
	Nov-96	5.0	0.70
	Mar-97	<1.0	
	Oct-97	1.5	0.18
	May-98	1.0	0.00
	Dec-98	2.0	0.30
	Jun-99	5	0.70
	Dec-99	2.0	0.30
	Jun-00	7.0	0.85
	Dec-00	2	0.30
	Jun-01	4	0.60
	Dec-01	<1.0	
	Jun-02	<1.0	
	Dec-02	<1.0	
	Jun-03	<1.0	
	Dec-03	2.0	0.30
	Jun-04	2.0	0.30
	Dec-04	<1.0	
	Jun-05	<1.0	
		QTY. ND = d =	7
		n =	24
		μ =	0.52
		SD =	0.33

The **Adjusted Mean, $\mu_{(a)}$**, is found using

$$\mu_{(a)} = (1-d/n) \times \mu$$

where:
- d = number non-detected values
- n = total number samples
- μ = mean of detected values

The **Adjusted Standard Deviation, $(SD)_a$**, is found using

$$(SD)_a^2 = n-(d+1)/(n-1)(SD)^2 + (d/n)(n-d/n-1)(\mu)^2$$

where:
- n = total number samples
- d = number non-detected values
- SD = standard deviation of detected values

AITCHISON'S ADJ. MEAN, $\mu_{(a)}$ =	**0.37**
$(SD)^2$ =	0.11
μ^2 =	0.27
$(SD)_a^2$ =	0.14
AITCHISON'S ADJ. STAND. DEV. $(SD)_a$ =	**0.37**

IV. BERYLLIUM: Parametric Prediction Interval using Aitchison's-Adjusted Data

The background mean and standard deviation were modified using Aitchison's Adjustment (above).Using the Background Data and Aitchison's-adjusted mean and Aitchison's-adjusted standard deviation, the Upper Prediction Limit (UPL) is determined using:

$$\text{LOG (UPL)} = \mu_{(a)} + t_{(n-1,\,k,\,0.95)} \times (SD)_a \times \text{SQRT}(1/m+1/n)$$

Where:
- $t_{(n-1,\,k,\,0.95)}$ = 1-sided Bonferroni t-statistic (Gibbons, 1994: Table 1.2)
- n-1 = degrees of freedom (number of samples - 1)
- k = number of (downgradient) samples per event =future comparisons
- 95% = confidence interval
- SQRT = square root
- m = number independent samples from each sampling point
- n = number of detected background samples

For:

$\mu_{(a)}$ =	0.365	
$(SD)_a$ =	0.37	
k =	7	
n =	17	
$t_{(n-1,\,k,\,0.95)}$ =	2.729	
m =	1	
LOG (UPL) =	**1.40**	
BERYLLIUM UPL =	**25.0**	ug/L

I. CHROMIUM: Shapiro-Wilk Normality Test

Background Well P-6

City of Durham Closed Landfill

Rank i	ug/L Ascending $X_{(i)}$	ug/L Descending $X_{(n-i+1)}$	$X_{(n-i+1)}-X_{(i)}$	USEPA (1992) Table A-1: $a_{(n-i+1)}$	b_i
1	5.8	297	291	0.4450	129.58
2	9	271	262	0.3069	80.41
3	11	207	196	0.2543	49.84
4	21	176	155	0.2148	33.29
5	32	133	101	0.1822	18.40
6	32	121	89	0.1539	13.70
7	37	104.0	67	0.1283	8.60
8	40	102	62	0.1046	6.49
9	41	89.0	48	0.0823	3.95
10	46	88	42	0.0610	2.56
11	54	71	17	0.0403	0.685
12	65	69	4	0.0200	0.0800
13	65	65			
14	69	65			
15	71	54			
16	88	46			
17	89	41			
18	102	40			
19	104	37			
20	121	32.0			
21	133	32			
22	176	21.0			
23	207	11.0			
24	271	9.0			
25	297	5.8		TOTAL b =	347.6

Sample SD= 77.5

W_{calc}= 0.839

$W_{crit.}$@0.05 = 0.918 (USEPA ,1992:Table A-2)

Normal? NO

The test statistic W is found using:

$$W = (b/(SD \times SQRT(n-1)))^2$$

where:

b = summation of $(X_{(n-i+1)}-X_{(i)})A_{(n-i+1)}$

SD = standard deviation of the data group

n = number of samples

SQRT = square root

Compare this value to the critical value in Table A-2 (USEPA, 1992)

If $W_{calc.} > W_{crit.}$, then data set is normal.

II. CHROMIUM: Shapiro-Wilk Normality Test LOG-TRANSFORMED DATA

Background Well P-6

City of Durham Closed Landfill

Rank i	Ascending LOG X(i)	Descending LOG X(n-i+1)	X(n-i+1)-X(i)	USEPA (1992) Table A-1 a(n-i+1)	bi
1	0.763	2.473	1.7093	0.4450	0.7607
2	0.954	2.433	1.4787	0.3069	0.4538
3	1.041	2.316	1.2746	0.2543	0.3241
4	1.322	2.246	0.9233	0.2148	0.1983
5	1.505	2.124	0.6187	0.1822	0.1127
6	1.505	2.083	0.5776	0.1539	0.0889
7	1.568	2.017	0.4488	0.1283	0.0576
8	1.602	2.009	0.4065	0.1046	0.0425
9	1.613	1.949	0.3366	0.0823	0.0277
10	1.663	1.944	0.2817	0.0610	0.0172
11	1.732	1.851	0.1189	0.0403	0.0048
12	1.813	1.839	0.0259	0.0200	0.0005
13	1.813	1.813			
14	1.839	1.813			
15	1.851	1.732			
16	1.944	1.663			
17	1.949	1.613			
18	2.009	1.602			
19	2.017	1.568			
20	2.083	1.505			
21	2.124	1.505			
22	2.246	1.322			
23	2.316	1.041			
24	2.433	0.954			
25	2.473	0.763		TOTAL b =	2.089

Sample SD= 0.4346

W_{calc}= 0.963

$W_{crit.}$@0.05 = 0.918 (USEPA ,1992: Table A-2)

LOG-Normal? YES

III. CHROMIUM: Aitchison's Adjustment

to Log-Normal Data Set

Background Well P-6

City of Durham Closed Landfill

Background Well Data

Location	Date Sampled	Conc. ug/L	LOG Conc.
P-6	Sep-94	207	2.32
	Dec-94	71	1.85
	Feb-95	271	2.43
	Mar-95	6	0.76
	Nov-95	40	1.60
	Jun-96	65	1.81
	Nov-96	133	2.12
	Mar-97	<5.0	
	Oct-97	65	1.81
	May-98	37	1.57
	Dec-98	176	2.25
	Jun-99	46	1.66
	Dec-99	121	2.08
	Jun-00	297	2.47
	Dec-00	102	2.01
	Jun-01	41	1.61
	Dec-01	54	1.73
	Jun-02	21	1.32
	Dec-02	32	1.51
	Jun-03	88	1.94
	Dec-03	89	1.95
	Jun-04	104	2.02
	Dec-04	11	1.04
	Jun-05	32	1.51
	Jun-06	69	1.84
		QTY. ND = d =	1
		n =	25
		μ =	1.80
		SD =	0.41

The **Adjusted Mean**, $\mu_{(a)}$, is found using

$\mu_{(a)} = (1-d/n) \times \mu$

where:

d = number non-detected values

n = total number samples

μ = mean of detected values

The **Adjusted Standard Deviation**, $(SD)_a$, is found using

$(SD)_a^2 = n-(d+1)/(n-1)(SD)^2 + (d/n)(n-d/n-1)(\mu)^2$

where:

n = total number samples

d = number non-detected values

SD = standard deviation of detected values

AITCHISON'S ADJ. MEAN, $\mu_{(a)}$ =	**1.73**
$(SD)^2$ =	0.167
μ^2 =	3.24
$(SD)_a^2$ =	0.290
AITCHISON'S ADJ. STAND. DEV. $(SD)_a$ =	**0.54**

IV. CHROMIUM: Parametric Prediction Interval using Aitchison's-Adjusted Data

The background mean and standard deviation were modified using Aitchison's Adjustment (above).Using the Background Data and Aitchison's-adjusted mean and Aitchison's-adjusted standard deviation, the Upper Prediction Limit (UPL) is determined using:

$$\text{LOG (UPL)} = \mu_{(a)} + t_{(n-1,\,k,\,0.95)} \times (SD)_a \times \text{SQRT}(1/m+1/n)$$

Where:

$t_{(n-1,\,k,\,0.95)}$ = 1-sided Bonferroni t-statistic (Gibbons, 1994: Table 1.2)

n-1 = degrees of freedom (number of samples - 1)

k = number of (downgradient) samples per event =future comparisons

95% = confidence interval

SQRT = square root

m = number independent samples from each sampling point

n = number of background samples

For:

$\mu_{(a)}$ =	1.729
$(SD)_a$ =	0.538
k =	7
n =	25
$t_{(n-1,\,k,\,0.95)}$ =	2.634
m =	1
LOG (UPL) =	**3.175**
CHROMIUM UPL =	**1498** ug/L

I. COPPER: Shapiro-Wilk Normality Test

Background Well P-6

City of Durham Closed Landfill

Rank i	ug/L Ascending $X_{(i)}$	ug/L Descending $X_{(n-i+1)}$	$X_{(n-i+1)}-X_{(i)}$	USEPA (1992) Table A-1: $a_{(n-i+1)}$	b_i
1	4	211	207	0.4450	92.12
2	6	150	144	0.3069	44.19
3	7	109	102	0.2543	25.94
4	16	101	85	0.2148	18.26
5	17	95	78	0.1822	14.21
6	20	92	72	0.1539	11.08
7	27	73	46	0.1283	5.90
8	28	69	41	0.1046	4.29
9	28	62	34	0.0823	2.80
10	30	60	30	0.0610	1.83
11	30	52	22	0.0403	0.887
12	30	48	18	0.0200	0.360
13	44	44			
14	48	30			
15	52	30			
16	60	30			
17	62	28			
18	69	28			
19	73	27			
20	92	20			
21	95	17			
22	101	16			
23	109	7			
24	150	6			
25	211	4		TOTAL b =	221.9

Sample SD= 49.03

W_{calc}= 0.853

$W_{crit.}$@0.05 = 0.918 (USEPA ,1992:Table A-2)

Normal? NO

The test statistic W is found using:

$W = (b/(SD \times SQRT(n-1))^2$

where:

b = summation of $(X_{(n-i+1)}-X_{(i)})A_{(n-i+1)}$

SD = standard deviation of the data group

n = number of samples

SQRT = square root

Compare this value to the critical value in Table A-2 (USEPA, 1992)

If $W_{calc.} > W_{crit}$, then data set is normal.

LOG-TRANSFORMED DATA

II. COPPER: Shapiro-Wilk Normality Test

Background Well P-6

City of Durham Closed Landfill

Rank i	Ascending LOG X(i)	Descending LOG X(n-i+1)	X(n-i+1)-X(i)	USEPA (1992) Table A-1 a(n-i+1)	bi
1	0.602	2.324	1.722	0.4450	0.766
2	0.778	2.176	1.398	0.3069	0.429
3	0.845	2.037	1.192	0.2543	0.303
4	1.204	2.004	0.800	0.2148	0.172
5	1.230	1.978	0.747	0.1822	0.136
6	1.301	1.964	0.663	0.1539	0.102
7	1.431	1.863	0.432	0.1283	0.055
8	1.447	1.839	0.392	0.1046	0.041
9	1.447	1.792	0.345	0.0823	0.028
10	1.477	1.778	0.301	0.0610	0.018
11	1.477	1.716	0.239	0.0403	0.00963
12	1.477	1.681	0.204	0.0200	0.00408
13	1.643	1.643			
14	1.681	1.477			
15	1.716	1.477			
16	1.778	1.477			
17	1.792	1.447			
18	1.839	1.447			
19	1.863	1.431			
20	1.964	1.301			
21	1.978	1.230			
22	2.004	1.204			
23	2.037	0.845			
24	2.176	0.778			
25	2.324	0.602		TOTAL b =	2.066

Sample SD= 0.4300

W calc= 0.961

W crit.@0.05 = 0.918 (USEPA ,1992:Table A-2)

LOG-Normal? YES

III. COPPER: Aitchison's Adjustment
to Log-Normal Data Set
Background Well P-6
City of Durham Closed Landfill

Background Well Data

Location	Date Sampled	Conc. ug/L	LOG Conc.
P-6	Sep-94	109.0	2.04
	Dec-94	44.0	1.64
	Feb-95	150.0	2.18
	Mar-95	17.0	1.23
	Nov-95	20.0	1.30
	Jun-96	62.0	1.79
	Nov-96	73.0	1.86
	Mar-97	<5.0	
	Oct-97	27.0	1.43
	May-98	30.0	1.48
	Dec-98	60.0	1.78
	Jun-99	69.0	1.84
	Dec-99	30.0	1.48
	Jun-00	101.0	2.00
	Dec-00	48.0	1.68
	Jun-01	95.0	1.98
	Dec-01	28.0	1.45
	Jun-02	30.0	1.48
	Dec-02	16.0	1.20
	Jun-03	52.0	1.72
	Dec-03	92.0	1.96
	Jun-04	211.0	2.32
	Dec-04	7.0	0.85
	Jun-05	28.0	1.45
	Jun-06	6.0	0.78
		QTY. ND = d =	1
		n =	25
		μ =	1.62
		SD =	0.39

AITCHISON'S ADJ. MEAN, $\mu_{(a)}$ =	**1.56**
$(SD)^2$ =	0.150
μ^2 =	2.63
$(SD)_a^2$ =	0.249
AITCHISON'S ADJ. STAND. DEV. $(SD)_a$ =	**0.50**

The **Adjusted Mean,** $\mu_{(a)}$, is found using

$$\mu_{(a)} = (1-d/n) \times \mu$$

where:

d = number non-detected values
n = total number samples
μ = mean of detected values

The **Adjusted Standard Deviation,** $(SD)_a$, is found using

$$(SD)_a^2 = n-(d+1)/(n-1)(SD)^2 + (d/n)(n-d/n-1)(\mu)^2$$

where:

n = total number samples
d = number non-detected values
SD = standard deviation of detected values

IV. COPPER: Parametric Prediction Interval using Aitchison's-Adjusted Data

The background mean and standard deviation were modified using Aitchison's Adjustment (above).Using the Background Data and Aitchison's-adjusted mean and Aitchison's-adjusted standard deviation, the Upper Prediction Limit (UPL) is determined using:

$$\text{LOG (UPL)} = \mu_{(a)} + t_{(n-1,\,k,\,0.95)} \times (SD)_a \times \text{SQRT}(1/m+1/n)$$

Where:

$t_{(n-1,\,k,\,0.95)}$ = 1-sided Bonferroni t-statistic (Gibbons, 1994: Table 1.2)
n-1 = degrees of freedom (number of samples - 1)
k = number of (downgradient) samples per event =future comparisons
95% = confidence interval
SQRT = square root
m = number independent samples from each sampling point
n = number of background samples

For:

$\mu_{(a)}$ =	1.557
$(SD)_a$ =	0.499
k =	7
n =	24
$t_{(n-1,\,k,\,0.95)}$ =	2.634
m =	1
LOG (UPL) =	**2.897**
COPPER UPL =	**788** ug/L

I. LEAD: Shapiro-Wilk Normality Test
Background Well P-6
City of Durham Closed Landfill

Rank i	ug/L Ascending X(i)	ug/L Descending X(n-i+1)	X(n-i+1)-X(i)	USEPA (1992) Table A-1: a(n-i+1)	bi
1	6	83	77	0.4643	35.75
2	11	76	65	0.3185	20.70
3	11	40	29	0.2578	7.48
4	13	37	24	0.2119	5.09
5	14	36	22	0.1736	3.82
6	14	35	21	0.1399	2.94
7	16	35	19	0.1092	2.07
8	19	35	16	0.0804	1.29
9	20	30	10	0.0530	0.53
10	23	30	7	0.0263	0.18
11	25	25			
12	30	23			
13	30	20			
14	35	19			
15	35	16			
16	35	14			
17	36	14			
18	37	13			
19	40	11			
20	76	11			
21	83	6		TOTAL b =	79.85

Sample SD= 19.69
W_{calc}= 0.822
$W_{crit.}$@0.05 = 0.908 (USEPA ,1992:Table A-2)
Normal? NO

The test statistic W is found using:

$$W = (b/(SD \times SQRT(n-1))^2$$

where:

b = summation of $(X_{(n-i+1)}-X_{(i)})A_{(n-i+1)}$
SD = standard deviation of the data group
n = number of samples
SQRT = square root

Compare this value to the critical value in Table A-2 (USEPA, 1992)
If $W_{calc.} > W_{crit}$, then data set is normal.

LOG-TRANSFORMED DATA
II. LEAD: Shapiro-Wilk Normality Test
Background Well P-6
City of Durham Closed Landfill

Rank i	Ascending LOG X(i)	Descending LOG X(n-i+1)	X(n-i+1)-X(i)	USEPA (1992) Table A-1 a(n-i+1)	bi
1	0.778	1.919	1.141	0.4643	0.5297
2	1.041	1.881	0.839	0.3185	0.2674
3	1.041	1.602	0.561	0.2578	0.1445
4	1.114	1.568	0.454	0.2119	0.0963
5	1.146	1.556	0.410	0.1736	0.0712
6	1.146	1.544	0.398	0.1399	0.0557
7	1.204	1.544	0.340	0.1092	0.0371
8	1.279	1.544	0.265	0.0804	0.0213
9	1.301	1.477	0.176	0.0530	0.0093
10	1.362	1.477	0.115	0.0263	0.0030
11	1.398	1.398			
12	1.477	1.362			
13	1.477	1.301			
14	1.544	1.279			
15	1.544	1.204			
16	1.544	1.146			
17	1.556	1.146			
18	1.568	1.114			
19	1.602	1.041			
20	1.881	1.041			
21	1.919	0.778		TOTAL b =	1.236

Sample SD= 0.2808
W_{calc}= 0.968
$W_{crit.}$@0.05 = 0.901 (USEPA ,1992:Table A-2)
LOG-Normal? YES

III. LEAD: Aitchison's Adjustment
to Log-Normal Data
Background Well P-6
City of Durham Closed Landfill

Background Well Data

Location	Date Sampled	Conc. ug/L	LOG Conc.
P-6	Sep-94	40.0	1.60
	Dec-94	30.0	1.48
	Feb-95	76.0	1.88
	Mar-95	11.0	1.04
	Nov-95	14.0	1.15
	Jun-96	25	1.40
	Nov-96	30.0	1.48
	Mar-97	<5.0	
	Oct-97	16.0	1.20
	May-98	11.0	1.04
	Dec-98	36.0	1.56
	Jun-99	19	1.28
	Dec-99	14.0	1.15
	Jun-00	37	1.57
	Dec-00	20	1.30
	Jun-01	35	1.54
	Dec-01	23	1.36
	Jun-02	6	0.78
	Dec-02	<5	
	Jun-02	<5	
	Dec-03	35	1.54
	Jun-04	83	1.92
	Jun-05	13	1.11
	Jun-06	35	1.54
		QTY. ND = d =	3
		n =	24
		μ =	1.38
		SD =	0.28
AITCHISON'S ADJ. MEAN, $\mu_{(a)}$ =			**1.21**
		$(SD)^2$ =	0.08
		μ^2 =	1.90
		$(SD)_a^2$ =	0.29
AITCHISON'S ADJ. STNDRD DEV., $(SD)_a$ =			**0.53**

The **Adjusted Mean, $\mu_{(a)}$,** is found using

$$\mu_{(a)} = (1-d/n) \times \mu$$

where:

d = number non-detected values
n = total number samples
μ = mean of detected values

The **Adjusted Standard Deviation,$(SD)_a$,** is found using

$$(SD)_a^2 = n-(d+1)/(n-1)(SD)^2 + (d/n)(n-d/n-1)(\mu)^2$$

where:

n = total number samples
d = number non-detected values
SD = standard deviation of detected values

IV. LEAD: Parametric Prediction Interval using Aitchison's-Adjusted Data

The background mean and standard deviation were modified using Aitchison's Adjustment (above).Using the Background Data and Aitchison's-adjusted mean and Aitchison's-adjusted standard deviation, the Upper Prediction Limit (UPL) is determined using:

$$\text{LOG (UPL)} = \mu_{(a)} + t_{(n-1,\,k,\,0.95)} \times (SD)_a \times \text{SQRT}(1/m+1/n)$$

Where:

$t_{(n-1,\,k,\,0.95)}$ = 1-sided Bonferroni t-statistic (Gibbons, 1994: Table 1.2)
n-1 = degrees of freedom (number of samples - 1)
k = number of (downgradient) samples per event =future comparisons
95% = confidence interval
SQRT = square root
m = number independent samples from each sampling point
n = number of detected background samples

For:

$\mu_{(a)}$ =	1.21	
$(SD)_a$ =	0.53	
k =	7	
n =	21	
$t_{(n-1,\,k,\,0.95)}$ =	2.672	
m =	1	
LOG (UPL) =	**2.67**	
LEAD UPL =	**463**	ug/L

I. NICKEL: Shapiro-Wilk Normality Test
Background Well P-6
City of Durham Closed Landfill

Rank i	ug/L Ascending X(i)	ug/L Descending X(n-i+1)	X(n-i+1)-X(i)	USEPA (1992) Table A-1: a(n-i+1)	bi
1	10	343	333	0.4407	146.75
2	17	227	210	0.3043	63.90
3	21	211	190	0.2533	48.13
4	26	144	118	0.2151	25.38
5	30	130	100	0.1836	18.36
6	32	126	94	0.1563	14.69
7	32	124	92	0.1316	12.11
8	33	103	70	0.1089	7.62
9	35	99	64	0.0876	5.61
10	43	88	45	0.0672	3.02
11	49	61	12	0.0476	0.57
12	50	56	6	0.0284	0.17
13	52	54	2	0.0094	0.02
14	54	52			
15	56	50			
16	61	49			
17	88	43			
18	99	35			
19	103	33			
20	124	32			
21	126	32			
22	130	30			
23	144	26			
24	211	21			
25	227	17			
26	343	10		TOTAL b =	346.3

Sample SD= 77.78
W_{calc}= 0.793
W_{crit}@0.05 = 0.920 (USEPA ,1992:Table A-2)
Normal? NO

The test statistic W is found using:
W = (b/(SD x SQRT(n-1))^2
where:
b = summation of $(X_{(n-i+1)}-X_{(i)})A_{(n-i+1)}$
SD = standard deviation of the data group
n = number of samples
SQRT = square root
Compare this value to the critical value in Table A-2 (USEPA, 1992)
If $W_{calc.} > W_{crit}$, then data set is normal.

LOG-TRANSFORMED DATA
II. NICKEL: Shapiro-Wilk Normality Test
Background Well P-6
City of Durham Closed Landfill

Rank i	Ascending LOG X(i)	Descending LOG X(n-i+1)	X(n-i+1)-X(i)	USEPA (1992) Table A-1 a(n-i+1)	bi
1	1.000	2.535	1.535	0.4407	0.6766
2	1.230	2.356	1.126	0.3043	0.3425
3	1.322	2.324	1.002	0.2533	0.2538
4	1.415	2.158	0.743	0.2151	0.1599
5	1.477	2.114	0.637	0.1836	0.1169
6	1.505	2.100	0.595	0.1563	0.0930
7	1.505	2.093	0.588	0.1316	0.0774
8	1.519	2.013	0.494	0.1089	0.0538
9	1.544	1.996	0.452	0.0876	0.0396
10	1.633	1.944	0.311	0.0672	0.0209
11	1.690	1.785	0.095	0.0476	0.0045
12	1.699	1.748	0.049	0.0284	0.0014
13	1.716	1.732	0.016	0.0094	0.0002
14	1.732	1.716			
15	1.748	1.699			
16	1.785	1.690			
17	1.944	1.633			
18	1.996	1.544			
19	2.013	1.519			
20	2.093	1.505			
21	2.100	1.505			
22	2.114	1.477			
23	2.158	1.415			
24	2.324	1.322			
25	2.356	1.230			
26	2.535	1.000		TOTAL b =	1.841

Sample SD= 0.371
W_{calc}= 0.983
W_{crit}@0.05 = 0.920 (USEPA ,1992:Table A-2)
LOG-Normal? YES

III. NICKEL: Aitchison's Adjustment
to Log-Normal Data Set
Background Well P-6
City of Durham Closed Landfill

Background Well Data

Location	Date Sampled	Conc. ug/L	LOG Conc.
P-6	Sep-94	17	1.23
	Dec-94	56	1.75
	Feb-95	211	2.32
	Mar-95	30	1.48
	Nov-95	32	1.51
	Jun-96	49	1.69
	Nov-96	103	2.01
	Mar-97	50	1.70
	Oct-97	52	1.72
	May-98	43	1.63
	Dec-98	124	2.09
	Jun-99	126	2.10
	Dec-99	227	2.36
	Jun-00	343	2.54
	Dec-00	144	2.16
	Jun-01	88	1.94
	Dec-01	54	1.73
	Jun-02	21	1.32
	Dec-02	33	1.52
	Jun-03	26	1.41
	Dec-03	99	2.00
	Jun-04	130	2.11
	Dec-04	10	1.00
	Jun-05	35	1.54
	Jun-06	61	1.79
		QTY. ND = d =	0
		n =	25
		μ =	1.786
		SD =	0.375
		AITCHISON'S ADJ. MEAN, $\mu_{(a)}$ =	**1.79**
		$(SD)^2$ =	0.14
		μ^2 =	3.19
		$(SD)_a^2$ =	0.14
		AITCHISON'S ADJ. STD DEV., $SD_{(a)}$ =	**0.37**

The **Adjusted Mean, $\mu_{(a)}$,** is found using

$$\mu_{(a)} = (1-d/n) \times \mu$$

where:

d = number non-detected values
n = total number samples
μ = mean of detected values

The **Adjusted Standard Deviation,$(SD)_a$,** is found using

$$(SD)_a^2 = n-(d+1)/(n-1)(SD)^2 + (d/n)(n-d/n-1)(\mu)^2$$

where:

n = total number samples
d = number non-detected values
SD = standard deviation of detected values

IV. NICKEL: Parametric Prediction Interval using Aitchison's-Adjusted Data

The background mean and standard deviation were modified using Aitchison's Adjustment (above).Using the Background Data and Aitchison's-adjusted mean and Aitchison's-adjusted standard deviation, the Upper Prediction Limit (UPL) is determined using:

LOG (UPL) = $\mu_{(a)} + t_{(n-1,\,k,\,0.95)} \times (SD)_a \times SQRT(1/m+1/n)$

Where:

$t_{(n-1,\,k,\,0.95)}$ = 1-sided Bonferroni t-statistic (Gibbons, 1994: Table 1.2)
n-1 = degrees of freedom (number of samples - 1)
k = number of (downgradient) samples per event =future comparisons
95% = confidence interval
SQRT = square root
m = number independent samples from each sampling point
n = number of detected background samples

For:

$\mu_{(a)}$ =	1.79	
$(SD)_a$ =	0.37	
k =	7	
n =	25	
$t_{(n-1,\,k,\,0.95)}$ =	2.627	
m =	1	
LOG (UPL) =	**2.79**	
NICKEL UPL =	**616**	ug/L

I. SULFIDE: Shapiro-Wilk Normality Test

Background Well P-6

City of Durham Closed Landfill

Rank i	ug/L Ascending $X_{(i)}$	ug/L Descending $X_{(n-i+1)}$	$X_{(n-i+1)}-X_{(i)}$	USEPA (1992) Table A-1: $a_{(n-i+1)}$	b_i
1	400	16000	15600	0.6233	9723.48
2	400	13000	12600	0.3031	3819.06
3	600	2000	1400	0.1401	196.14
4	1400	1400			
5	2000	600			
6	13000	400			
7	16000	400			
				TOTAL b =	13738.68

Sample SD= 6688.7

W_{calc}= 1.406

$W_{crit.}$@0.05 = 0.803 (USEPA ,1992:Table A-2)

Normal? YES

The test statistic W is found using:

$$W = (b/(SD \times SQRT(n-1))^2$$

where:

b = summation of $(X_{(n-i+1)}-X_{(i)})A_{(n-i+1)}$

SD = standard deviation of the data group

n = number of samples

SQRT = square root

Compare this value to the critical value in Table A-2 (USEPA, 1992)

If $W_{calc.} > W_{crit}$, then data set is normal.

II. SULFIDE: Parametric Prediction Interval

for Normally-Distributed Data

Using Background Data, the Upper Prediction Limit (UPL) is determined using:

$$UPL = (Mean) + t_{(n-1,\,k,\,0.95)} \times (SD) \times SQRT(1/m+1/n)$$

Where:

Mean = mean concentration background samples

$t_{(n-1,\,k,\,0.95)}$ = Bonferroni t-statistic (Gibbons, 1994: Table 1.2) with:

n-1 = degrees of freedom (number of samples - 1)

k = number of downgradient samples per event

95% = confidence interval

SD = standard deviation of background samples

SQRT = square root

m = number independent samples from each sampling point

n = number of background samples

For:

Mean =	4828.57
SD =	6688.73
k =	7
n =	7
$t_{(n-1,\,k,\,0.95)}$ =	3.239
m =	1

SULFIDE UPL = 27989 ug/L

I. VANADIUM: Shapiro-Wilk Normality Test

Background Well P-6

City of Durham Closed Landfill

Rank i	ug/L Ascending $X_{(i)}$	ug/L Descending $X_{(n-i+1)}$	$X_{(n-i+1)}-X_{(i)}$	USEPA (1992) Table A-1: $a_{(n-i+1)}$	b_i
1	5	206	201	0.4493	90.309
2	7	203	196	0.3098	60.721
3	8	141	133	0.2554	33.968
4	12	141	129	0.2145	27.671
5	16	110	94	0.1807	16.986
6	20	109	89	0.1512	13.457
7	22	65	43	0.1245	5.354
8	25	59	34	0.0997	3.390
9	26	51	25	0.0764	1.910
10	27	50	23	0.0539	1.240
11	37	46	9	0.0321	0.289
12	38	45	7	0.0107	0.075
13	45	38			
14	46	37			
15	50	27			
16	51	26			
17	59	25			
18	65	22			
19	109	20			
20	110	16			
21	141	12			
22	141	8			
23	203	7			
24	206	5		TOTAL b =	255.4

Sample SD= 59.23

W_{calc}= 0.808

W_{crit}@0.05 = 0.916 (USEPA ,1992:Table A-2)

Normal? NO

The test statistic W is found using:

$$W = (b/(SD \times SQRT(n-1))^2$$

where:

b = summation of $(X_{(n-i+1)}-X_{(i)})A_{(n-i+1)}$

SD = standard deviation of the data group

n = number of samples

SQRT = square root

Compare this value to the critical value in Table A-2 (USEPA, 1992)

If $W_{calc.} > W_{crit}$, then data set is normal.

LOG-TRANSFORMED DATA

II. VANADIUM: Shapiro-Wilk Normality Test

Background Well P-6

City of Durham Closed Landfill

Rank i	Ascending LOG X(i)	Descending LOG X(n-i+1)	X(n-i+1)-X(i)	USEPA (1992) Table A-1 a(n-i+1)	bi
1	0.699	2.314	1.615	0.4493	0.7256
2	0.845	2.307	1.462	0.3098	0.4531
3	0.903	2.149	1.246	0.2554	0.3183
4	1.079	2.149	1.070	0.2145	0.2295
5	1.204	2.041	0.837	0.1807	0.1513
6	1.301	2.037	0.736	0.1512	0.1113
7	1.342	1.813	0.470	0.1245	0.0586
8	1.398	1.771	0.373	0.0997	0.0372
9	1.415	1.708	0.293	0.0764	0.0224
10	1.431	1.699	0.268	0.0539	0.0144
11	1.568	1.663	0.095	0.0321	0.0030
12	1.580	1.653	0.073	0.0107	0.0008
13	1.653	1.580			
14	1.663	1.568			
15	1.699	1.431			
16	1.708	1.415			
17	1.771	1.398			
18	1.813	1.342			
19	2.037	1.301			
20	2.041	1.204			
21	2.149	1.079			
22	2.149	0.903			
23	2.307	0.845			
24	2.314	0.699		TOTAL b =	2.125

Sample SD= 0.4498

W_{calc}= 0.971

LOG-Normal? YES

W_{crit}@0.05 = 0.916 (USEPA ,1992:Table A-2)

III. VANADIUM: Aitchison's Adjustment

to Log-Normal Data Set
Background Well P-6
City of Durham Closed Landfill

Background Well Data

Location	Date Sampled	Conc. ug/L	LOG Conc.
P-6	Sep-94	203	2.31
	Dec-94	51	1.71
	Feb-95	206	2.31
	Mar-95	16	1.20
	Nov-95	37	1.57
	Jun-96	50	1.70
	Nov-96	141	2.15
	Mar-97	141	2.15
	Oct-97	65	1.81
	May-98	20	1.30
	Dec-98	110	2.04
	Jun-99	45	1.65
	Dec-99	38	1.58
	Jun-00	109	2.04
	Dec-00	26	1.41
	Jan-01	22	1.34
	Dec-01	25	1.40
	Jun-02	12	1.08
	Dec-02	7	0.85
	Jun-03	5	0.70
	Dec-03	46	1.66
	Jun-04	59	1.77
	Dec-04	8	0.90
	Jun-05	27	1.43
		QTY. ND = d =	0
		n =	24
		μ =	1.586
		SD =	0.450

AITCHISON'S ADJ. MEAN, $\mu_{(a)}$ =	**1.59**
$(SD)^2$ =	0.20
μ^2 =	2.52
$(SD)_a^2$ =	0.20
AITCHISON'S ADJ. STNDRD DEV., $SD_{(a)}$ =	**0.45**

The **Adjusted Mean,** $\mu_{(a)}$, is found using

$$\mu_{(a)} = (1-d/n) \times \mu$$

where:

d = number non-detected values
n = total number samples
μ = mean of detected values

The **Adjusted Standard Deviation,**$(SD)_a$, is found using

$$(SD)_a^2 = n-(d+1)/(n-1)(SD)^2 + (d/n)(n-d/n-1)(\mu)^2$$

where:

n = total number samples
d = number non-detected values
SD = standard deviation of detected values

IV. VANADIUM: Parametric Prediction Interval using Aitchison's-Adjusted Data

The background mean and standard deviation were modified using Aitchison's Adjustment (above).Using the Background Data and Aitchison's-adjusted mean and Aitchison's-adjusted standard deviation, the Upper Prediction Limit (UPL) is determined using:

$$\text{LOG (UPL)} = \mu_{(a)} + t_{(n-1,\,k,\,0.95)} \times (SD)_a \times \text{SQRT}(1/m+1/n)$$

Where:

$t_{(n-1,\,k,\,0.95)}$ = 1-sided Bonferroni t-statistic (Gibbons, 1994: Table 1.2)
n-1 = degrees of freedom (number of samples - 1)
k = number of (downgradient) samples per event =future comparisons
95% = confidence interval
SQRT = square root
m = number independent samples from each sampling point
n = number of detected background samples

For:

$\mu_{(a)}$ =	1.59
$(SD)_a$ =	0.45
k =	7
n =	24
$t_{(n-1,\,k,\,0.95)}$ =	2.642
m =	1
LOG (UPL) =	**2.80**
VANADIUM UPL =	**630** ug/L

I. ZINC: Shapiro-Wilk Normality Test
Background Well P-6
City of Durham Closed Landfill

Rank i	ug/L Ascending $X_{(i)}$	ug/L Descending $X_{(n-i+1)}$	$X_{(n-i+1)}-X_{(i)}$	USEPA (1992) Table A-1: $a_{(n-i+1)}$	b_i
1	12	477	465	0.4493	208.925
2	14	369	355	0.3098	109.979
3	17	303	286	0.2554	73.044
4	20	291	271	0.2145	58.130
5	27	267	240	0.1807	43.368
6	41	261	220	0.1512	33.264
7	56	134	78	0.1245	9.711
8	65	125	60	0.0997	5.982
9	73	121	48	0.0764	3.667
10	77	106	29	0.0539	1.563
11	80	100	20	0.0321	0.642
12	96	100	4	0.0107	0.043
13	100	96			
14	100	80			
15	106	77			
16	121	73			
17	125	65			
18	134	56			
19	261	41			
20	267	27			
21	291	20			
22	303	17			
23	369	14			
24	477	12		TOTAL b =	548.32

Sample SD= 125.4

W_{calc}= 0.832
W_{crit}@0.05 = 0.914 (USEPA ,1992:Table A-2)
Normal? NO

The test statistic W is found using:

$$W = (b/(SD \times SQRT(n-1)))^2$$

where:

b = summation of $(X_{(n-i+1)}-X_{(i)})A_{(n-i+1)}$
SD = standard deviation of the data group
n = number of samples
SQRT = square root

Compare this value to the critical value in Table A-2 (USEPA, 1992)
If $W_{calc.} > W_{crit}$, then data set is normal.

LOG-TRANSFORMED DATA
II. ZINC: Shapiro-Wilk Normality Test
Background Well P-6
City of Durham Closed Landfill

Rank i	Ascending LOG $X_{(i)}$	Descending LOG $X_{(n-i+1)}$	$X_{(n-i+1)}-X_{(i)}$	USEPA (1992) Table A-1 $a_{(n-i+1)}$	b_i
1	1.079	2.679	1.599	0.4493	0.7186
2	1.146	2.567	1.421	0.3098	0.4402
3	1.230	2.481	1.251	0.2554	0.3195
4	1.301	2.464	1.163	0.2145	0.2494
5	1.431	2.427	0.995	0.1807	0.1798
6	1.613	2.417	0.804	0.1512	0.1215
7	1.748	2.127	0.379	0.1245	0.0472
8	1.813	2.097	0.284	0.0997	0.0283
9	1.863	2.083	0.219	0.0764	0.0168
10	1.886	2.025	0.139	0.0539	0.0075
11	1.903	2.000	0.097	0.0321	0.0031
12	1.982	2.000	0.018	0.0107	0.0002
13	2.000	1.982			
14	2.000	1.903			
15	2.025	1.886			
16	2.083	1.863			
17	2.097	1.813			
18	2.127	1.748			
19	2.417	1.613			
20	2.427	1.431			
21	2.464	1.301			
22	2.481	1.230			
23	2.567	1.146			
24	2.679	1.079		TOTAL b =	2.132

Sample SD= 0.4557

W_{calc}= 0.952
W_{crit}@0.05 = 0.914 (USEPA ,1992:Table A-2)
LOG-Normal? YES

III. ZINC: Aitchison's Adjustment
to Log-Normal Data
Background Well P-6
City of Durham Closed Landfill

Background Well Data

Location	Date Sampled	Conc. ug/L	LOG Conc.
P-6	Sep-94	303.0	2.48
	Dec-94	106.0	2.03
	Feb-95	477.0	2.68
	Mar-95	291.0	2.46
	Nov-95	65.0	1.81
	Jun-96	125	2.10
	Nov-96	134.0	2.13
	Mar-97	<10.0	
	Oct-97	96.0	1.98
	May-98	20.0	1.30
	Dec-98	121.0	2.08
	Jun-99	77.0	1.89
	Dec-99	100.0	2.00
	Jun-00	267	2.43
	Dec-00	100	2.00
	Jun-01	80	1.90
	Dec-01	73	1.86
	Jun-02	41	1.61
	Dec-02	27	1.43
	Jun-03	12	1.08
	Dec-03	261	2.42
	Jun-04	369	2.57
	Dec-04	17	1.23
	Jun-05	56	1.75
	Jun-06	14	1.15
		QTY. ND = d =	1
		n =	25
		μ =	1.93
		SD =	0.46

AITCHISON'S ADJ. MEAN, $\mu_{(a)}$ =	**1.85**
$(SD)^2$ =	0.21
μ^2 =	3.73
$(SD)_a^2$ =	0.35
AITCHISON'S ADJ. STNDRD DEV., $(SD)_a$ =	**0.59**

The **Adjusted Mean**, $\mu_{(a)}$, is found using

$$\mu_{(a)} = (1-d/n) \times \mu$$

where:

d = number non-detected values
n = total number samples
μ = mean of detected values

The **Adjusted Standard Deviation**, $(SD)_a$, is found using

$$(SD)_a^2 = n-(d+1)/(n-1)(SD)^2 + (d/n)(n-d/n-1)(\mu)^2$$

where:

n = total number samples
d = number non-detected values
SD = standard deviation of detected values

IV. ZINC: Parametric Prediction Interval using Aitchison's-Adjusted Data

The background mean and standard deviation were modified using Aitchison's Adjustment (above).Using the Background Data and Aitchison's-adjusted mean and Aitchison's-adjusted standard deviation, the Upper Prediction Limit (UPL) is determined using:

$$\text{LOG (UPL)} = \mu_{(a)} + t_{(n-1,\,k,\,0.95)} \times (SD)_a \times \text{SQRT}(1/m+1/n)$$

Where:

$t_{(n-1,\,k,\,0.95)}$ = 1-sided Bonferroni t-statistic (Gibbons, 1994: Table 1.2)
n-1 = degrees of freedom (number of samples - 1)
k = number of (downgradient) samples per event =future comparisons
95% = confidence interval
SQRT = square root
m = number independent samples from each sampling point
n = number of detected background samples

For:

$\mu_{(a)}$ =	1.85	
$(SD)_a$ =	0.59	
k =	7	
n =	24	
$t_{(n-1,\,k,\,0.95)}$ =	2.627	
m =	1	
LOG (UPL) =	3.44	
ZINC UPL =	**2734**	ug/L

I. COBALT: Shapiro-Wilk Normality Test

Background Well P-6

City of Durham Closed Landfill

Rank i	ug/L Ascending $X_{(i)}$	ug/L Descending $X_{(n-i+1)}$	$X_{(n-i+1)}-X_{(i)}$	USEPA (1992) Table A-1: $a_{(n-i+1)}$	b_i
1	7.4	91	84	0.5056	42.268
2	12	87	75	0.3290	24.675
3	14	50	36	0.2521	9.076
4	16	45	29	0.1939	5.623
5	16	34	18	0.1447	2.605
6	16	34	18	0.1005	1.809
7	20.6	33	12	0.0593	0.735
8	30	32	2	0.0196	0.0392
9	32	30			
10	33	20.6			
11	34	16			
12	34	16			
13	45	16			
14	50	14			
15	87	12			
16	91	7.4		TOTAL b =	86.83

Sample SD= 24.8

W_{calc}= 0.820

W_{crit}@0.05 = 0.887 (USEPA ,1992:Table A-2)

Normal? NO

The test statistic W is found using:

$$W = (b/(SD \times SQRT(n-1))^2$$

where:

b = summation of $(X_{(n-i+1)}-X_{(i)})A_{(n-i+1)}$

SD = standard deviation of the data group

n = number of samples

SQRT = square root

Compare this value to the critical value in Table A-2 (USEPA, 1992)

If $W_{calc.} > W_{crit.}$ then data set is normal.

II. COBALT: Shapiro-Wilk Normality Test

LOG-TRANSFORMED DATA

Background Well P-6

City of Durham Closed Landfill

Rank i	Ascending LOG $X_{(i)}$	Descending LOG $X_{(n-i+1)}$	$X_{(n-i+1)}-X_{(i)}$	USEPA (1992) Table A-1 $a_{(n-i+1)}$	b_i
1	0.869	1.959	1.0898	0.5056	0.5510
2	1.079	1.940	0.8603	0.3290	0.2831
3	1.146	1.699	0.5528	0.2521	0.1394
4	1.204	1.653	0.4491	0.1939	0.0871
5	1.204	1.531	0.3274	0.1447	0.0474
6	1.204	1.531	0.3274	0.1005	0.0329
7	1.314	1.519	0.2046	0.0593	0.0121
8	1.477	1.505	0.0280	0.0196	0.0005
9	1.505	1.477			
10	1.519	1.314			
11	1.531	1.204			
12	1.531	1.204			
13	1.653	1.204			
14	1.699	1.146			
15	1.940	1.079			
16	1.959	0.869		TOTAL b =	1.153

Sample SD= 0.3036

W_{calc}= 0.962

W_{crit}@0.05 = 0.887 (USEPA ,1992:Table A-2)

LOG-Normal? YES

III. COBALT: Aitchison's Adjustment
to Log-Normal Data Set
Background Well P-6
City of Durham Closed Landfill

Background Well Data

Location	Date Sampled	Conc. ug/L	LOG Conc.
P-6	Dec-94	<5.0	
	Feb-95	30	1.48
	Mar-95	<5.0	
	Nov-95	12	1.08
	Jun-96	<10	
	Nov-96	34	1.53
	Mar-97	16	1.20
	Oct-97	20.6	1.31
	May-98	45	1.65
	Dec-98	<25	
	Jun-99	34	1.53
	Dec-99	16	1.20
	Jun-00	32	1.51
	Dec-00	<10	
	Jun-01	50	1.70
	Dec-01	33	1.52
	Jun-02	16	1.20
	Dec-02	14	1.15
	Jun-03	<10	
	Dec-03	87	1.94
	Jun-04	91	1.96
	Dec-04	7.4	0.87
		QTY. ND = d =	6
		n =	22
		μ =	1.43
		SD =	0.30

The **Adjusted Mean, $\mu_{(a)}$**, is found using

$$\mu_{(a)} = (1-d/n) \times \mu$$

where:

d = number non-detected values
n = total number samples
μ = mean of detected values

The **Adjusted Standard Deviation, $(SD)_a$**, is found using

$$(SD)_a^2 = n-(d+1)/(n-1)(SD)^2 + (d/n)(n-d/n-1)(\mu)^2$$

where:

n = total number samples
d = number non-detected values
SD = standard deviation of detected values

AITCHISON'S ADJ. MEAN, $\mu_{(a)}$ =	**1.04**
$(SD)^2$ =	0.092
μ^2 =	2.04
$(SD)_a^2$ =	0.489
AITCHISON'S ADJ. STAND. DEV. $(SD)_a$:	**0.70**

IV. COBALT: Parametric Prediction Interval using Aitchison's-Adjusted Data

The background mean and standard deviation were modified using Aitchison's Adjustment (above).Using the Background Data and Aitchison's-adjusted mean and Aitchison's-adjusted standard deviation, the Upper Prediction Limit (UPL) is determined using:

$$\text{LOG (UPL)} = \mu_{(a)} + t_{(n-1,\,k,\,0.95)} \times (SD)_a \times \text{SQRT}(1/m+1/n)$$

Where:

$t_{(n-1,\,k,\,0.95)}$ = 1-sided Bonferroni t-statistic (Gibbons, 1994: Table 1.2)
n-1 = degrees of freedom (number of samples - 1)
k = number of (downgradient) samples per event =future comparisons
95% = confidence interval
SQRT = square root
m = number independent samples from each sampling point
n = number of background samples

For:

$\mu_{(a)}$ =	1.038	
$(SD)_a$ =	0.699	
k =	7	
n =	16	
$t_{(n-1,\,k,\,0.95)}$ =	2.749	
m =	1	
LOG (UPL) =	**3.020**	
COBALT UPL =	**1046**	ug/L

TABLE B-2
Estimated Hydraulic Gradients and Average Linear Velocities
City of Durham Closed Landfill

MEASUREMENT PAIR												SITE AVG.
DISTANCE BETWEEN PAIRS (feet)		900		650		750		500		415		
FLOW DIRECTION		NW		N		SSW		NNE		WNW		
[redacted]	GW ELEV (feet AMSL)	288.6	275.3	303.7	295.8	348.0	300.9	348.0	303.7	348.0	316.1	
	HORIZ GRAD (i)	0.01		0.01		0.06		0.09		0.08		0.05
12/13/99	GW ELEV (feet AMSL)	289.0	280.1	303.7	296.7	348.0	302.2	348.0	303.7	348.0	316.6	
	HORIZ GRAD (i)	0.01		0.01		0.06		0.09		0.08		0.05
[redacted]	GW ELEV (feet AMSL)	288.9	279.3	305.0	297.0	347	302.0	347.4	305.0	347.4	316.8	
	HORIZ GRAD (i)	0.01		0.01		0.06		0.08		0.07		0.05
12/11/00	GW ELEV (feet AMSL)	288.7	279.5	303.7	296.6	344.5	302.0	344.5	303.7	344.5	316.3	
	HORIZ GRAD (i)	0.01		0.01		0.06		0.08		0.07		0.05
[redacted]	GW ELEV (feet AMSL)	289.17	279.70	304.91	297.29	346.94	301.42	346.94	304.91	346.94	316.00	
	HORIZ GRAD (i)	0.01		0.01		0.06		0.08		0.07		0.05
12/03/01	GW ELEV (feet AMSL)	288.65	278.88	304.72	294.83	341.42	299.32	341.42	304.72	341.42	--	
	HORIZ GRAD (i)	0.01		0.02		0.06		0.07		NA		0.04
[redacted]	GW ELEV (feet AMSL)	288.02	277.80	304.12	296.28	343.44	302.55	343.44	304.12	343.44	315.60	
	HORIZ GRAD (i)	0.01		0.01		0.05		0.08		0.07		0.04
12/16/02	GW ELEV (feet AMSL)	290.01	282.12	305.13	299.99	349.58	305.28	349.58	305.13	349.58	316.37	
	HORIZ GRAD (i)	0.01		0.01		0.06		0.09		0.08		0.05
[redacted]	GW ELEV (feet AMSL)	289.54	280.14	305.76	297.59	347.66	301.45	347.66	305.76	347.66	damaged	
	HORIZ GRAD (i)	0.03		0.03		0.13		0.12		--		0.08
12/08/03	GW ELEV (feet AMSL)	289.32	281.18	305.54	297.90	damaged	310.00	damaged	305.54	damaged	damaged	
	HORIZ GRAD (i)	0.03		0.03		--		--		--		0.03
[redacted]		[redacted]		[redacted]		[redacted]		[redacted]		[redacted]		[redacted]
06/28/04	GW ELEV (feet AMSL)	289.50	279.32	308.84	297.73	349.02	300.87	349.02	308.84	349.02	318.70	
	HORIZ GRAD (i)	0.04		0.04		0.14		0.12		0.09		0.08
[redacted]	GW ELEV (feet AMSL)	289.28	279.73	307.17	299.55	334.52	301.72	334.52	307.17	334.52	318.98	
	HORIZ GRAD (i)	0.01		0.01		0.04		0.05		0.04		0.03
06/06/05	GW ELEV (feet AMSL)	289.37	279.15	306.91	297.62	349.62	300.74	349.62	306.91	349.62	320.93	
	HORIZ GRAD (i)	0.04		0.03		0.14		0.12		0.08		0.08
[redacted]	GW ELEV (feet AMSL)	289.44	279.49	302.61	299.17	346.25	300.09	346.25	302.61	346.25	319.65	
	HORIZ GRAD (i)	0.03		0.01		0.13		0.13		0.08		0.08
06/05/06	GW ELEV (feet AMSL)	290.60	279.27	304.86	298.91	347.47	300.51	347.47	304.86	347.47	319.74	
	HORIZ GRAD (i)	0.01		0.01		0.06		0.09		0.07		0.05
[redacted]		[redacted]		[redacted]		[redacted]		[redacted]		[redacted]		[redacted]
HYDRAULIC CONDUCTIVITY [2]	K (cm/s) [3]	8.87E-04		5.44E-04		5.44E-04	2.84E-03		5.44E-04	8.87E-04		
	geomean [4]					1.24E-03						
	K (ft/day)	2.51		1.54		3.52		1.54		2.51		
[redacted]		[redacted]		[redacted]		[redacted]		[redacted]		[redacted]		[redacted]

[1] Measuring point elevations were surveyed in by Barbara H. Mulkey Engineering in January 2001.
[2] Where available, used K estimates from M-P (Jan. 1999): Table 2.
[3] Where K available for both wells in pair, used geometric mean of the two values.
[4] Where individual K not available, used geometric mean of K values listed in M-P (1999) Table 2 = 8.87E-04 cm/s
[5] velocity = K i / n; assume effective porosity (n_e) of 0.20 for aquifer, and homogeneous isotropic porous aquifer.
[6] Measuring point elevations were surveyed in by Barbara H. Mulkey Engineering in March 2005.
AMSL - above mean sea level
cm/s - centimeters per second
ft/day - feet per day
geomean - geometric mean
i - gradient
n/m - not measured