SCS BT SQUARED

2011 Annual Report

Tri-County and Elgin Landfills
South Elgin, Kane County, Illinois

Prepared for:

United States Environmental Protection Agency
Region V – Remedial Response Branch
Office of Superfund

77 W. Jackson Boulevard HSRL-6J
Chicago, Illinois 60604

Prepared by:

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October 2012
File No. 25212003.00 and 25211389.70

Offices Nationwide
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1.0 INTRODUCTION

This annual progress report (Report) summarizes the operation and maintenance (O&M) activities performed by Waste Management of Illinois, Inc. (WMIL) and Republic Services, Inc. (RSI, formerly Allied Waste, and previously Browning Ferris Industries) at the Tri-County/Elgin Landfills Superfund site (Site) in Kane County, Illinois, during the period January 1, 2011 through December 31, 2011. The activities are related to the O&M of the remedial components at the Site, which include:

- Source Control Measures
  - O&M of the landfill gas collection and combustion system
  - Maintenance and monitoring of the landfill cap and Site access controls
- Groundwater Sampling and Analysis

The remedial components have been operational since 2001. The Tri-County and Elgin Landfills received construction completion on September 30, 2000 and November 1, 2001, respectively.

There were no Workplans or other deliverables completed or submitted to the U.S. Environmental Protection Agency (USEPA) during 2011. These annual reports are reviewed by USEPA and are considered in their periodic reviews of the Site (i.e., five-year reviews).

The most recent five-year review was completed in 2009. The USEPA summarized their findings and recommendations in a document titled “Second 5-Year Review Report” dated September 2009. The next five-year review for the Site is expected to occur in 2014.

2.0 SOURCE CONTROL MEASURES

The source control remedial components for the Site generally include the landfill gas collection and combustion system, the landfill cap, and Site access controls. The Tri-County and Elgin Landfills are adjacent but separate landfills, and thus are operated and maintained independently, by different parties.

The Tri-County Landfill is approximately 46 acres and is maintained by WMIL. WMIL operates a hauling company on approximately 4 acres of that property, and the cap in that area is modified asphalt technology for waste containment facilities (MATCON) pavement. The remainder of the cap area generally includes a geomembrane and 18 inches of cover soil to minimize infiltration. Surface water drainage from the paved area is directed through an oil-grit separator and then to perimeter ditches. Surface water from the other capped areas is channeled to an infiltration basin by perimeter drainageways.

Vacuum for the landfill gas collection system is generated by operation of a blower/flare station that is located in the southwest corner of the Tri-County Landfill. WMIL engaged SCS BT Squared (SCS) to perform some of the O&M functions at the Tri-County portion of the Site during this reporting period. That O&M role generally includes periodic (i.e., quarterly) monitoring of the landfill gas control system, site inspections, and compilation of this annual

report for the Tri-County Landfill portion of the Site. WMIL personnel from the adjacent Woodland Recycling and Disposal Facility (RDF) also support the O&M of the landfill gas control system on an as-needed basis.

Specific O&M activities include periodic inspections of the landfill cap, perimeter access controls, storm water control features, blower/flare station, three condensate knockouts, and quarterly monitoring of 25 vertical landfill gas extraction wells, three horizontal trenches, and four perimeter landfill gas probes. The landfill gas at the blower flare station is sampled annually. The vegetation atop the cap is mowed to control growth of woody vegetative species, and the MATCON portion of the cap is maintained as needed. The Site features are shown on **Figure 1**.

The Elgin Landfill is approximately 20 acres and is maintained by RSI. The landfill cap generally includes a geomembrane and 18 inches of cover soil to minimize infiltration. Storm water drains to two on-site detention ponds and then is transmitted off site by perimeter ditches. RSI engaged Landmarc Environmental Systems, LLC to perform O&M functions at the Elgin portion of the Site during this reporting period. Their role there, with regard to source control, generally includes periodic (i.e., quarterly) monitoring of the landfill gas extraction points and gas probes on that landfill, and site inspections. RSI also engaged SCS to prepare this annual report to include the data from the Elgin portion of the Site.

Specific activities during this reporting period include quarterly inspections of the landfill cap, perimeter access controls, storm water control features, condensate knockout/lift station, 2 monitoring control stations, 19 landfill gas extraction wells, and 5 perimeter landfill gas probes. The vegetation atop the cap is mowed to control the growth of woody vegetative species. The Site features are shown on **Figure 1**.

2.1 PROGRESS MADE DURING THIS REPORTING PERIOD

2.1.1 Tri-County Landfill

The landfill gas extraction points (wells and trenches) and blower/flare station were monitored quarterly during 2011. The points are sampled using field instrumentation to monitor percent methane, percent oxygen, percent carbon dioxide, percent balance gas, and pressure (as it relates to flow). Liquid levels in the wells are also measured at the time of the quarterly sampling events to assess well performance. The data are included on the field sheets provided in **Appendix A**. The operational data from the blower/flare is summarized in **Table 1**.

The perimeter landfill gas monitoring probes were also monitored on a quarterly basis during 2011. The probes are sampled using field instrumentation to monitor percent methane, percent oxygen, percent carbon dioxide, and pressure. The data are included on the field sheets provided in **Appendix A**.

A landfill gas sample was collected at the blower/flare station for laboratory analysis on September 19, 2011. The sample was sent to TestAmerica Los Angeles for analysis of hydrogen

sulfide, non-methane organic compounds (NMOCs), and organics (TO-15). A copy of the laboratory report is provided in **Appendix B**.

WMIL personnel from the adjacent Woodland RDF perform maintenance of the blower / flare station. The maintenance activities include routine cleaning and lubrication, as well as monitoring of condensate levels in the holding tank. Condensate is removed and disposed of off site as necessary. Adjustments to the extraction points, collection system, or blower/flare are made as needed to maximize flare run times. Operational parameters are also described on the field sheets provided in **Appendix A**.

A site inspection is performed annually. The annual inspection during this reporting period was performed on September 19, 2011. The completed inspection form is included in **Appendix C**. In addition to the annual inspection, the condition of the monitoring points, perimeter fence and access points (i.e., gates), and landfill cap are observed during the periodic site visits. Any deficiencies are noted and corrected as soon as practical.

The groundwater monitoring wells are inspected annually in conjunction with the associated sampling event by staff from Environmental Monitoring and Technologies (EMT). Any maintenance issues are identified and corrected as soon as practical. During this reporting, there were no major issues noted that would affect groundwater sample results.

With regard to the perimeter fence and access gates, limbs from nearby trees occasionally fall onto the perimeter fence at the Site. During this reporting period, several small tree limbs were removed from atop the perimeter fencing. None of the limbs significantly damaged the fencing, and the fence maintained its function of restricting access to the Site.

The MATCON portion of the cap was inspected during this reporting period and found to be in good condition with only a few minor cracks visible. The oil-grit separator was also inspected. The unit appears to be functioning and no maintenance was necessary during this reporting period, other than routine replacement of sorbent booms.

The soil/geomembrane cap appears to be functioning as designed. In 2010, minor repairs to the soil layer of the cap were made in the vicinity of a culvert crossing beneath the south site access road, where storm water had eroded the soil in the vicinity of the corrugated metal pipe that was used to transmit storm water atop the cap and beneath the roadway. Soil and/or gravel were added to fill the eroded area. During the September 2011 site inspection, it was noted that the repairs made in 2010 appeared to be holding well. The gravel access road appeared firm and stable, and the fill placed around the culvert pipe remained in place. The vegetation on the cap is healthy, and the rock lined drainage ways are in good condition. The pond and its outlet are also in good condition.

The soil/geomembrane cap appears to be functioning as designed, and there were no areas that required erosion repairs during this reporting period. Vegetation on the eastern half of the cap and along access roads was mowed in August 2011. Approximately 50 percent of the vegetated area is mowed annually to leave undisturbed area for bird nesting and to promote diversity in

plant species atop the cap. Efforts to control teasel, an invasive species, that is present in limited areas on the landfill cap are being evaluated.

2.1.2 Elgin Landfill

The landfill gas extraction points (wells) were sampled quarterly during this reporting period. The points are sampled using field instrumentation to monitor percent methane, percent oxygen, percent carbon dioxide, pressure (as it relates to flow), and temperature. The data are included on the field reports provided in **Appendix D**.

The perimeter landfill gas monitoring probes were also sampled quarterly during this reporting period. The probes are sampled using field instrumentation to monitor percent methane and pressure. The data are also included on the field logs provided in **Appendix D**.

The groundwater monitoring wells are inspected annually in conjunction with the associated sampling event by staff from Herst & Associates, Inc. (Herst). Any maintenance issues are identified and corrected as soon as practical. During this reporting, there were no significant issues noted that would affect groundwater sample results.

During the quarterly site visits, the condition of the monitoring points, perimeter fence and access points (i.e., gates), landfill cap, and storm water ponds are observed. Any deficiencies are noted and corrected as soon as practical. The results from the inspections are included on the forms provided in **Appendix D**.

2.2 DATA EVALUATION

2.2.1 Tri-County Landfill

The soil/geomembrane and MATCON caps appear to be functioning as designed.

Periodic removal of fallen tree limbs is necessary to maintain the integrity of the perimeter fencing. Given the location and condition of the Site, additional measures (i.e., removal of live trees) do not appear warranted.

The current operational goal of the landfill gas collection system is continuous operation, but a relatively low volume of gas is currently generated by waste decomposition and available for the system to collect and combust, which presents operational challenges with regard to keeping the flare lit. Flows from the individual collection points are low, generally less than 5 cubic feet per minute (cfm), and total flow at the blower/flare is only approximately 100 cfm. Landfill gas quality, in terms of methane concentration, is at the low end of the operational range. Oxygen concentrations are generally maintained below 5 percent at each of the extraction points, but despite the geomembrane cap, oxygen levels increase and methane concentrations decrease when vacuum is increased at the extraction points. Several extraction wells are typically closed because of the low gas production.

Landfill gas quality, as defined by results from annual analysis for volatile organic compounds (VOCs), NMOC, and hydrogen sulfide is not remarkable. The results indicate low

concentrations of multiple organic compounds, with total xylenes being the most prevalent. Hydrogen sulfide and total NMOC (as methane) was in the normal range for landfill gas. It should be noted that the concentrations of NMOC and VOCs in the landfill gas are below the regulatory criteria or limits of applicability for air emissions, and thus flaring of landfill gas is not required to meet air emissions standards.

Data from sampling of the perimeter gas probes indicate the presence of methane above the Lower Explosive Limit (LEL), or 5 percent gas by volume, at one point. This probe (GP2) is located at the property line adjacent to the ARC Disposal property, and the results are likely related to buried waste in the vicinity of the probe and further south of the site under the vacant buildings. The methane concentrations recorded during this reporting period at gas probe GP2 ranged from 1.5 to 61.0 percent methane. There is generally little or no positive pressure associated with the methane concentration, thus gas migration is not likely significant. As a precaution, the probe was connected to the landfill gas collection system so that a slight vacuum is maintained at the probe.

Data collected from the remaining gas probes (GP1, GP3, and GP8) reported methane concentrations no higher than 0.6 percent during this reporting period. The methane concentrations and little to no pressure observed at these locations also suggests that significant gas migration is not likely.

Review of the inspection forms and monitoring logs indicate that the monitoring points are in acceptable condition; and necessary minor repairs to wells, hoses, and valves were made in a timely manner, so that it did not materially affect the operation of the landfill gas collection and combustion system.

2.2.2 Elgin Landfill

The quarterly inspection reports from this reporting period do not identify any issues with cap vegetation, access gates, perimeter fencing, slopes, ponds, or swales.

Operational data from landfill gas extraction points and associated control points (knockouts, lift stations, control stations, and cleanouts) do not indicate any significant issues with system operation.

As with the data from Tri-County, landfill gas production (i.e., flow) at the extraction wells is low, less than 3 cfm, and gas quality is poor. Several extraction wells are typically closed because of the low gas production.

No methane was reported at the perimeter gas probes associated with this landfill during this reporting period.

2.3 INSTITUTIONAL CONTROLS

An institutional control (IC) workplan, including a schedule for implementation and maintenance of ICs and draft environmental covenants for the property, was submitted to USEPA in 2011.

During this reporting period (2011), there were no issues identified during routine monitoring or maintenance activities that would indicate that local conditions have materially changed with regard to land use. Specifically, the landfill cap and gas collection/combustion systems are in place and operating properly, the landfill caps remain intact, and perimeter access controls are effective in restricting unauthorized access to the site. There were no incidents of trespass or damage to the remedial systems at the site identified during this reporting period.

As further described in **Section 3.7**, groundwater quality in the vicinity of the site is stable or improving over time and there are no identified off-site impacts.

2.4 PROJECTED ACTIVITIES

Continued O&M of the remedial components described above.

2.5 SUMMARY OF MEETINGS

There were no meetings concerning the site during this reporting period.

2.6 CONCLUSIONS

Based on the inspections during this reporting period, the landfill covers are in good condition. There is no evidence of significant erosion, and the vegetation is healthy atop the soil cover. The MATCON pavement was in good condition with no significant cracks. Perimeter fencing and surface water drainage channels were in good condition. Routine fence maintenance includes removal of any fallen tree limbs and repair of any damage to the fencing or access gates.

The landfill cap is performing as designed in reducing infiltration at the Site. The perimeter fencing, gates, and signage are also functioning as designed, as there were no reported incidences of trespassing or damage to the site remedial components during this reporting period.

The landfill gas collection system remains in operation, but the relatively low volume of gas that is currently generated by waste decomposition, and is therefore available for the system to collect and combust, presents operational challenges with regard to keeping the flare lit. Gas quality, in terms of methane concentration, is at the low end of the operational range and appears to be declining over time. The landfill gas system is currently functioning as designed, but is approaching the time when the blower/flare operation may be discontinued, or is not able to be operated continuously. The landfill gas quality, in terms of concentrations of NMOC and VOCs, does not indicate that combustion is necessary to meet existing air emission limits.

Data from periodic monitoring of perimeter gas probes does not indicate that off-site landfill gas migration is a significant issue.

2.7 RECOMMENDATIONS

Considering the volume and quality of landfill gas currently generated by waste decomposition at the Site, it is not necessary to continue to operate the existing active blower/flare system. That

system was designed for a much higher flow and gas quality than currently observed at the site. Options include installation of a lower volume blower/flare or conversion to a passive system.

Previously, passive venting at the individual gas collection points (i.e., vertical wells and trenches) was considered the preferred option, but installation of a lower volume blower/flare would continue to allow the system to operate actively (i.e., under vacuum). Active operation would also allow for continued use of the existing facilities and periodic monitoring at the collection points (vertical wells, trenches, and blower/flare). The flare would be equipped with an automatic ignition system (i.e., timed spark) so that the flare would be lit only if the landfill gas quality and quantity supported combustion.

The data from this period (2011) is consistent with the historical data, which has consistently demonstrated that the landfill gas at this site is not a concern with regard to air emissions. As such, continued laboratory analysis of the landfill gas is no longer necessary and could be discontinued.

3.0 GROUNDWATER CONTROL MEASURES

The Record of Decision (ROD) for the Site originally required that an active groundwater collection and treatment system be installed to meet groundwater standards. However, based on projections made from sampling results during the Pre-Design Investigation (PDI), contaminant concentrations in groundwater were expected to achieve groundwater standards within a reasonable period of time through natural attenuation. Natural attenuation, which includes biodegradation and dispersion, is supported by implementation of the source control measures (cap and landfill gas control systems) at the Site. This change in remedy was documented in an Explanation of Significant Differences to the ROD, and formed the basis for deferring the groundwater collection component of the remedy to allow for a period of observation.

In accordance with that approach, a groundwater monitoring plan for the Site was prepared to meet the following objectives: 1) provide early warning of a significant increase in groundwater contamination caused by a release of hazardous substances, pollutants, or contaminants from the Site after the Remedial Action (RA) and during the subsequent operation/maintenance period; 2) provide information on the effects that the RA has had on the groundwater quality; 3) demonstrate the effectiveness of natural attenuation in conjunction with the landfill capping as an effective means of remediating groundwater contamination; and 4) verify that contaminated groundwater does not pose a threat to human health and the environment downgradient of the Site.

Requirements for the long-term groundwater monitoring on the Tri-County Landfill portion of the Site are detailed in a January 2002 document entitled “Remedial Action Long-Term Groundwater Monitoring Program.” The requirements for the Elgin Landfill are included as a chapter in the document entitled “Operation and Maintenance Plan, Elgin Landfill Superfund Site,” dated March 2003. The sampling and analytical program is summarized in **Table 2**. The locations of the wells sampled are shown on **Figure 2**.

3.1 SITE GEOLOGY

A brief summary of the Site geology and hydrogeology, as originally presented in the PDI report dated February 1996, is presented here for reference.

> Unconsolidated deposits at the site range in thickness from 70 to 90 feet. The deposits consist of two distinct geologic units deposited during the Wisconsin Glacial advance. The upper Henry unit is a sand and gravel outwash deposit. The lower Wedron unit is comprised of three distinctive clayey till members. These tills are referred to as the Yorkville, Malden, and Tiskilwa. Along the western portion of the Tri-County Landfill the Robein Silt Formation/Glasford Formation are present and directly overlie bedrock.
>
> The upper geologic unit at the site consists of the Batavia Member of the Henry. The thickness of the Henry varies across the site from less than 10 feet to 50 feet and is controlled, in part, by the topography of the underlying Yorkville till. To the south of the site, where the ground surface elevations are lower, the Henry is thinner (less than 10 feet) and to the north of the site, where it appears that the Yorkville is nonexistent, the Henry is approximately 50 feet thick. Within the limits of the Tri-County Landfill, all or most of the Henry has been removed.
>
> The lower geologic unit, the Wedron Formation, consists of three distinctive clayey till members; the upper Yorkville, middle Malden, and lower Tiskilwa. The Yorkville is the upper glacial till at the site. This unit is a gray to brown clayey, silty till with little sand. A predominant characteristic of the Yorkville is abundant dolomite limestone gravel. In addition, the Yorkville is shown to be a uniform silty clay soil with few sand seams present. The Yorkville ranges in thickness from approximately 65 feet in the southern portion of the site to zero in the north, where it is shown to pinch-out north of the site. The Malden is the middle glacial till unit at the site. This unit is typically described as gray to brown silty and sandy material that in some areas grades upward to clayey till with discontinuous, but common, beds and lenses of gravel and sand. The thickness of the Malden in the vicinity of the Tri-County Landfill ranges from nonexistent to approximately 40 feet with an average thickness of approximately 5 to 10 feet. The Tiskilwa is the lower glacial till at the site and is an homogenous calcareous material. The Tiskilwa is generally a massive clayey till and discontinuous pockets of gravel, sand or silt exist within the upper portions of the till. The thickness of the Tiskilwa in the vicinity of the Tri-County Landfill ranges between nonexistent to approximately 35 feet with an average thickness of approximately 20 feet.
>
> Unconsolidated deposits are directly underlain by Silurian sedimentary bedrock, consisting primarily of dolomite. The existing wells at the site generally do not penetrate further than 10 to 15 feet into bedrock. Bedrock topography at the site generally slopes toward the Fox River Valley.

3.2 SITE HYDROGEOLOGY – SAMPLE LOCATIONS

The hydrogeology of the Site is divided into three vertically separated hydrostratigraphic zones: the shallow and intermediate groundwater zones and the bedrock aquifer (deep groundwater zone). The zones are generally separated from each other by low hydraulic conductivity soils.

As shown on **Figure 2**, there are a total of 29 wells sampled for the Tri-County Landfill including:

- Eleven groundwater wells designated as MW1S, MW2SR, MW5SR, MW6S, MW10S, MW12SR, MW25S, MW38S, MW39S, MW41S, and G135, and two piezometers designated as PZ29 and PZ32 in the shallow zone.
- Ten groundwater wells designated as MW1I1, MW1I2, MW2IR, MW5IR, MW6I, MW10I, MW12IR, MW13IR, MW39I, and G142 in the intermediate zone.
- Three groundwater wells designated as MW1DR, MW40DR, and G112 in the deep zone (bedrock aquifer).
- Three private wells including the water supply wells at the Woodland Recycling and Disposal Facility (PW-07), Chicago Stone (PW-09), and WMIL repair facility (PW-23).

As shown on **Figure 2**, there are a total of 16 wells sampled for the Elgin Landfill including:

- Six groundwater wells designated as MW9S, MW20S, MW21S, MW24S, MW36S, and MW37S in the shallow zone.
- Six groundwater wells designated as MW9I, MW22I, MW23I, MW36I, MW38I, and G141 in the intermediate zone.
- Four groundwater wells designated as MW9D, MW36D, MW38D, and G111 in the deep zone (bedrock aquifer).

Thus, there are a total of 19 sampling locations in the shallow zone, 16 sampling locations in the intermediate zone, and 7 points in the deep zone, not including the 3 private wells that are also likely located in the bedrock aquifer, included in the annual groundwater sampling program for the entire Site.

3.3 PROGRESS MADE DURING THIS REPORTING PERIOD

The 2011 annual groundwater monitoring event at the Site was performed during the period June 13 through 20, 2011. This included obtaining water levels on June 13, 2011, and groundwater sampling during the period June 14 through 20, 2011, at the Tri-County Landfill and June 14 through 16, 2011, at the Elgin Landfill. As described above, individual wells at the Site are identified as being associated with either the Tri-County or Elgin Landfills. EMT of Morton Grove, Illinois, sampled the wells associated with the Tri-County Landfill. Herst and Associates of St. Charles, Missouri, sampled wells associated with the Elgin Landfill. Laboratory analysis of samples was provided by TestAmerica of Buffalo, New York, except the nitrate/nitrite analysis was performed locally by Heritage Environmental Services (for Elgin

wells) and EMT (for the Tri-County wells) to meet the holding times associated with those analytes.

Samples are collected from the wells and analyzed on site for a variety of field parameters. A summary of the groundwater wells sampled, including the hydrostratigraphic unit and the required analysis for each well, is provided in **Table 2**. Analyses are categorized as VOCs, semi-volatile organic compounds (SVOCs), metals and cyanide, and indicator parameters. The individual parameter lists for these groups are shown in **Tables 3** through **6**, respectively.

3.3.1 Groundwater Level Measurements

The depth to groundwater and the respective groundwater elevations for this sampling event are provided in **Tables 7** and **8**. Water elevations at the Tri-County and Elgin Landfill wells were calculated from depth-to-water measurements obtained on June 13, 2011. Depth-to-water measurements were also recorded at each well prior to commencing groundwater sampling. Both data sets are presented in **Tables 7** and **8** for the Tri-County and Elgin wells, respectively. The initial water levels (i.e., water levels collected on the same day) and water levels measured prior to sampling during this reporting period are generally similar. The initial measurement (i.e., June 13, 2011) data is utilized to evaluate groundwater flow in the vicinity of the site, but the slight variations in groundwater elevation are not expected to materially affect that interpretation.

3.3.2 Groundwater Sampling

The groundwater monitoring wells associated with the Tri-County Site were sampled using low flow sampling techniques, and the wells are generally equipped with dedicated sampling equipment. At the five wells (MW1S, MW10S, MW25S, MW38S, and MW41S) that are not fitted with dedicated sampling equipment, a peristaltic pump and new tubing is used to collect the samples.

The groundwater monitoring wells associated with the Elgin Landfill were sampled using a variety of sampling techniques. Disposable bailers are used to collect the samples at two of the wells that are not fitted with dedicated sampling equipment (MW20S and MW24S). At MW9S, a peristaltic pump and new tubing is used to collect the samples. The remaining wells were sampled using a bladder pump and low flow sampling techniques. If the well is not equipped with a dedicated bladder pump, a non-dedicated bladder pump is used and decontaminated between locations.

Field sampling activities were documented on the field information forms/logs, which are included as an attachment to the electronic copies of the laboratory data reports. The laboratory data reports are included on a compact disc (CD) that is enclosed with this report. Pumping rates and purge volumes were monitored during the sampling process. The depth to water, pH, specific conductance, temperature, turbidity, dissolved oxygen, and oxidation-reduction (redox) potential measurements were taken at each groundwater monitoring well and documented on the field information forms. For wells sampled using low flow procedures, measurements were recorded at approximate five-minute intervals during purging. Purging was considered complete when the field measurements stabilized for three successive readings within the following limits:

0.1 units for pH, 3 percent for specific conductance, 10 mv for redox potential, and 10 percent for turbidity and dissolved oxygen, and when the turbidity fell below 10 Nephelometric Turbidity Units (NTUs). Similar to prior sampling events, field sampling personnel identified three wells at Tri-County and five wells at Elgin where turbidity readings were above or did not stabilize below 10 NTUs.

Groundwater samples were collected in bottles provided by the laboratory and placed in insulated coolers on ice for shipment to the laboratory. Chain of custody forms were completed for each sample cooler. Copies of the chain of custody forms are also included in the laboratory data packages on the CD.

3.3.3 Analytical Results

Summary tables are provided for the laboratory and field data in **Appendix E**. The tables include:

- Shallow Well Laboratory and Field Data, Tri-County and Elgin Landfills
- Intermediate Well Laboratory and Field Data, Tri-County and Elgin Landfills
- Deep Well Laboratory and Field Data, Tri-County and Elgin Landfills
- Private Well Laboratory and Field Data
- Quality Control Sample Results, Tri-County and Elgin Landfills

Electronic data deliverables, provided by TestAmerica, of the analytical results are provided on a CD that is included with this report. The CD also includes copies of the laboratory data packages for the samples collected during this reporting period for the Tri-County and Elgin Landfills.

3.3.4 Data Quality

3.3.4.1 Identification of Potential Data Quality Issues

Data quality was evaluated by reviewing information provided by the laboratory (i.e., narratives, chain of custody forms, field information forms, etc.) to determine if there were any issues that would materially affect the data quality from this reporting period. Summaries of that review and copies of the laboratory narratives from this period are included for reference in **Appendix F**. The review included assessment of sample handling procedures (i.e., preservation and holding times) and results from analysis of laboratory quality control samples.

The laboratory narratives summarize a number of potential specific data quality issues relative to the samples and analysis by analyte group (i.e., laboratory methods). These issues are typical of analysis for these analytes and do not indicate any significant laboratory quality control issues that would materially affect the data quality from this reporting period. The affected data is appropriately qualified where necessary.

3.3.4.2 Quality Control Samples

There were a total of 9 trip blanks, 6 field/equipment blanks, 6 duplicate samples, and 3 samples analyzed by the laboratory as matrix spike/matrix spike duplicates (MS/MSD) to further assess data quality during this sampling period. The laboratory data reports from analysis of these samples are included on a CD that is enclosed with this report. The data from analysis of the blank and duplicate samples is also included in the summary tables in **Appendix E**.

No VOCs were identified in analysis of the trip blanks during this reporting period.

Analysis of the equipment and field blanks did not identify any compounds at concentrations that would indicate a potential impact on the data quality of the samples from the monitoring wells. Low concentrations of calcium (0.11 milligrams/liter [mg/L]), zinc (0.0019 mg/L), and total dissolved solids were reported in an equipment blank collected during sampling of the Elgin monitoring wells. The concentrations of zinc and calcium were relatively low and "J" flagged. A "J" flagged result is defined by the laboratory as a value that is less than the reporting limit, but greater than or equal to the method detection limit. Thus, the result is an approximation or estimate. Total dissolved solids (TDS) was reported at concentrations of 18 mg/L and 35 mg/L in two of the six samples, including one sample collected in association with the Elgin sampling event and one from the Tri-County sampling event. The identified compounds and concentrations are not expected to materially impact data quality.

Duplicate samples were collected for laboratory analysis at wells G142, MW2SR, MW6S, MW10S, MW36I, and MW37S during this sampling period. The results from analysis of the two samples (i.e., original well sample and duplicate) were compared to determine if there were any potential issues in data reproducibility that could affect evaluation of the data with regard to the established screening criteria. The following observations were noted:

- When comparing the results from analysis of the samples at MW6S and MW10S, the relative percent difference (RPD) of chloride (MW6S) and sulfate (MW6S and MW10S) was greater than 20 percent. The calculated RPD of the chloride results was 84.3 percent. The RPD for sulfate was 170.7 and 119.5 for MW6S and MW10S, respectively. However, neither chloride nor sulfate exceeded the screening criteria, thus the difference in concentrations (duplicate versus original sample) of those parameters is not likely significant.

- Acetone was reported in the duplicate sample collected at G142, but not in the original well sample, thus the RPD was greater than 20 percent. Acetone was also quantified in both the duplicate and original sample collected at well MW36I, but the RPD was greater than 20 percent. This data is consistent with the knowledge that Acetone is a common laboratory contaminant and conclusion that the concentrations are not likely representative of groundwater quality.

- Chloride was reported at a concentration of 472 mg/L in the sample collected from well G142, and 46.7 mg/L in the duplicate, thus the RPD exceeds 20 percent. The laboratory was contacted and the results were confirmed.

Data reproducibility was generally within the expected range (0 to 20 percent) for the remaining well samples and parameters including alkalinity, barium, benzene, calcium, magnesium, manganese, nickel, potassium, sodium, sulfate, sulfide, toluene, and total organic carbon. It should be noted that the data for several of these parameters are qualified by the laboratory, and variations in quantification of inorganic parameters is not expected to affect results from other analyte groups. Higher RPDs were typically seen when comparing non-detect or low concentrations between the two samples. Although the RPDs might be higher in these instances, the difference in concentrations was not significant enough to suggest there is an issue with regard to data quality.

Three samples were collected for analysis as an MS/MSD during this reporting period. The samples were taken at wells MW13IR, MW21S, and MW41S. The results from analysis are provided with the laboratory data packages on the enclosed CD. The recoveries and RPD of the MS/MSD samples were generally within acceptable ranges, thus there do not appear to be any consistent or significant matrix interferences that would materially impact the data from analysis of groundwater samples at the Site.

3.3.4.3 Result Quantification

A number of samples were diluted by the laboratory to quantify the results. In this case, the associated detection and reporting limits are increased by the dilution factor. There were also a number of compounds identified at concentrations below the reporting limit (RL) or site quantification limit. These concentrations are qualified as estimated and identified with a "J flag." There are several cases where the detection limit or RL was above the Federal Safe Drinking Water Act Maximum Contaminant Levels (MCLs) and/or the Illinois Class I Groundwater Quality Standards (ILGWQS; 35 Illinois Administrative Code 620.410), which were used as screening criteria for the groundwater data. The parameters where the detection limit or RL was above the screening criteria are SVOCs, including bis(2-ethylhexyl)phthalate, hexachlorobenzene, benzo(a)pyrene, and pentachlorophenol. Given the current site conditions and nature of these compounds, the current detection or reporting limits associated with these compounds are not expected to be an issue with regard to meeting the objectives of the groundwater monitoring program.

3.3.4.4 Completeness

The data provided by the laboratories from this reporting period were compared to the sampling and analytical requirements identified in **Table 2**. With the exception of one private well and one monitoring well, all site monitoring wells were sampled and the analysis performed as requested. The Arc Disposal (PW22) facility appears to have ceased operation; therefore, a sample could not be obtained from that private well and monitoring well PZ32 was dry during the 2011 sampling period.

3.3.4.5 Turbidity

Turbidity measurements taken during well purging and at the time of sampling were above 10 NTUs at eight points during this sampling period. Each of these wells has been in place for more than ten years and sampled on multiple occasions, thus incomplete well development is not

likely a contributing factor. These sample locations included 2 points in the deep zone (MW40DR and G111), 3 points in the intermediate zone (MW9I, MW10I, and MW12IR), and 3 points in the shallow zone (MW20S, MW24S, and MW37S).

The NTU measurements range from 19.94 (G111) to 28.1 (MW40DR) in the deep zone, 35.91 (MW9I) to 197.0 (MW10I) in the intermediate zone, and 58.60 (MW37S) to 127.3 (MW24S) in the shallow zone. Turbidity above 10 NTUs was distributed almost evenly among the 3 groundwater zones and 2 landfill monitoring programs, with different sampling teams following proper protocols, thus the turbidity is likely due to natural conditions in the area and cannot be avoided. It should be noted that, in accordance with the approved sampling plan, groundwater samples collected at this site are not filtered, thus the turbidity could have an effect on the results of laboratory analysis – particularly the concentration of metals (i.e. iron, manganese, chromium, nickel, lead, and arsenic).

3.4 DATA EVALUATION

3.4.1 Groundwater Elevation Data

Groundwater elevation data are used to compile the groundwater flow maps presented as **Figures 3** and **4** for the shallow and intermediate units. A groundwater flow map is not included for the deep zone due to the limited number of data points in that unit.

Consistent with prior interpretations of groundwater elevations, groundwater flow in the shallow zone is primarily toward the north in the north area of the Site, and to the south in the southern area of the Site. Groundwater flow in the intermediate zone is primarily to the south/southeast in the vicinity of the Site, with the exception of the northwest corner where water flows to the northwest. Reviewing groundwater elevations for the deep zone, the highest elevation is near the northeast corner of the Site and the lowest near the southwest corner. It appears that groundwater flow in the deep zone is toward the southwest, but detailed evaluation is somewhat subjective due to the available number of data points.

Water elevations between the defined hydrostratigraphic units are also evaluated for vertical gradients to assess the connectivity between the identified groundwater bearing zones. Based on a comparison of data from the nested wells (MW1S/1I1/1I2, MW2SR/2IR, MW5SR/5IR, MW6S/6I, MW10S/10I, and MW12SR/12IR), there is a potential for downward groundwater flow between the shallow and intermediate units south of the Tri-County Landfill, but the measurements are consistent with the current interpretation that the units there are separated by a layer of low permeability soil that restricts vertical groundwater flow. There appears to be a slight downward gradient from the intermediate to deep zone in this area based on the data from the nested wells (G142/G112 and MW12IR/40DR) in that vicinity of the site. Again, vertical groundwater flow is likely restricted by a layer of fine grain soil in this area. Generally, vertical gradients appear to have a stronger downward component in the area to the south of the Tri-County Landfill, but are present between the shallow and intermediate, and intermediate and deep units. Horizontal groundwater flow likely dominates in this area as well, as indicated by the identified gradient.

Data from the area to the north of the Elgin Landfill indicates a potential for upward (MW9S/9I nest) and downward (MW36S/36I nest) gradients from the intermediate to shallow zones. However, it should be noted that the MW9S/9I nest is located more than 600 feet from the landfill, and the MW36S/36I nest is located more than 200 feet from the landfill. The gradients described based on these conditions may not represent actual subsurface conditions closer to the landfill. Downward gradients were observed from the intermediate to deep zone at well nests MW36I/36D and MW38I/38D. An upward vertical gradient appears to be present in the area of wells G141 (intermediate zone) and G111 (deep zone).

Water elevations taken during the initial round of measurements on June 13, 2011, and at the time of sampling for the Tri-County and Elgin Landfills are summarized in **Tables 7** and **8**, respectively. The water elevations calculated from depth-to-water measurements on June 13, 2011, were used as the basis of the vertical gradient discussions and to develop the groundwater flow maps (**Figures 3** and **4**).

3.4.2 Groundwater Quality Data

The reported concentrations of the laboratory parameters and field measurements from the 2011 monitoring event are summarized in the tables in **Appendix E**. The tables also identify the associated Federal Safe Drinking Water Act MCLs and the Class I ILGWQS, if established. These values were used as screening criteria for the groundwater data. Parameters where the reported concentration is greater than the MCL and/or Class I ILGWQS are summarized in **Table 9** for the Tri-County wells, **Table 10** for the private wells, and **Table 11** for the Elgin wells.

It should be noted that there were no VOCs or SVOCs identified above the screening criteria (MCLs or Class I ILGWQS) in the samples collected during this reporting period. The only sample results reported above the screening criteria were from the analysis of indicator parameters (i.e., chloride and TDS), and metals (iron, chromium, manganese, nickel, arsenic, and lead). Each of the exceedances is described below. To assist in data evaluation, time-concentration graphs were prepared for each laboratory parameter that exceeded the screening criteria. The graphs are presented in **Appendix G**.

3.4.3 Indicator Parameters

3.4.3.1 Chloride

Chloride concentrations exceeded the screening criteria in samples collected from six wells during this sampling period (Tri-County: G142, G112, and MW40DR; and Elgin: G111, MW23I and MW36I). These exceedences are at wells located generally along the western edge of the Site and within the intermediate and deep groundwater zones: intermediate (G142, MW23I, and MW36I), and deep (G111, G112, and MW40DR). The chloride concentrations in excess of the Class I ILGWQS (200 mg/L) range from 215 (MW23I) to 534 (G112) mg/L.

In the intermediate groundwater zone, the chloride concentration continues to decrease over time at well G142, which historically has the highest concentration in this zone at the Site. Chloride concentrations at wells MW23I and MW36I appear to be stable or decreasing over time.

Chloride concentrations fluctuate in the deep zone. The current concentration at well MW40DR (309 mg/L) is lower than results identified in analysis of past samples, that have been as high as 880 mg/L, but is slightly higher than values from the recent past (2010-2011). The chloride concentration at well G111 appears to be generally decreasing over time. The chloride concentration at well G112 appears to be increasing over time, but the current concentration (534 mg/L) is still lower than the historical concentrations noted at well MW40DR, which is located approximately 600 feet to the south.

It should be noted that the Illinois Environmental Protection Agency (IEPA) has established background values for local groundwater and well-specific (i.e., intrawell) statistical limits for certain parameters in conjunction with the permit granted for the adjacent solid waste disposal facility – the Woodland RDF, IEPA Permit No. 1995-077-LFM, Site No. 0894830005. The local background value for chloride is 304 mg/L. IEPA has also established an intrawell statistical limit for chloride at well G142. This well is identified as G242 for the adjacent facility and is assigned a value of 1,291 mg/L as an applicable groundwater quality standard (AGQS) for dissolved chloride. This information confirms that there is a significant background contribution to the identified chloride concentrations. Finally, it should be noted that chloride is a public welfare parameter, and concentrations exceeding the screening criteria are not indicative of a health concern. As such, there is no MCL for chloride and the exceedances are related only to the Class I ILGWQS.

3.4.3.2 Total Dissolved Solids

TDS concentrations exceeded the screening criteria in samples collected from four wells during this sampling period (Tri-County: G142 and G112; and Elgin: MW20S and G111).

Results that exceeded the screening criteria were identified in analysis of samples from monitoring wells located west and north of the Tri-County and Elgin landfill and within each of the three identified groundwater zones at the Site: shallow (MW20S), intermediate (G142), and deep (G111 and G112). The TDS concentrations in excess of the Class I ILGWQS (1,200 mg/L) range from 1,220 mg/L (MW20S) to 1,970 mg/L (G112).

Review of the time-concentration plot for TDS at well MW20S, in the shallow zone, indicates a general decreasing trend.

In the intermediate groundwater zone, the TDS concentration at G142 (1,730 mg/L) exceeded the ILGWQS of 1,200 mg/L. Review of the time-concentration plot for TDS at well G142 indicates a stable or decreasing trend over time.

In the deep zone, the TDS concentration at well G111 in 2011 (1,490 mg/L) was reported at a higher concentration than results from recent sampling events. Previous TDS values ranged from 1,200 mg/L (June 2010) to 1,330 mg/L (June 2006). Results from analysis of future samples from this well will be evaluated to assess the significance of the current result.

The TDS concentration reported from analysis of the sample collected from monitoring well G112 during this reporting period was 1,970 mg/L. The current (2011) TDS result is higher than the concentration reported from analysis of the sample collected in 2010 (1,540 mg/L).

Review of the time-concentration plot for TDS at G112 indicates a general increasing trend since 2004.

It should be noted that the IEPA has established background values for local groundwater and well-specific (i.e., intrawell) statistical limits for certain parameters in conjunction with the permit granted for the adjacent solid waste disposal facility – the Woodland RDF, IEPA Permit No. 1995-077-LFM, Site No. 0894830005. The local background value for TDS is 1,371 mg/L. IEPA has also established an intrawell statistical limit for TDS at well G142. This well is identified as G242 for the adjacent facility and is assigned a value of 3,571 mg/L as an AGQS for TDS. This information confirms that there is a significant background contribution to the identified TDS concentrations. Finally, it should be noted that TDS is a public welfare parameter and concentrations exceeding the screening criteria are not indicative of a health concern. As such, there is no MCL for TDS, and the exceedances are related only to the Class I ILGWQS.

3.4.4 Metals

3.4.4.1 Iron

Iron concentrations exceeded the screening criteria in samples collected from ten wells during this sampling period (Tri-County: MW5SR, MW6S, MW6I, MW10I, and MW40DR; and Elgin: G111, MW22I, MW24S, MW36I, and MW36S).

These results are from analysis of samples from wells that are distributed geographically and within each of the identified groundwater zones at the Site: shallow (MW5SR, MW6S, MW24S, and MW36S), intermediate (MW6I, MW10I, MW22I, and MW36I), and deep (G111 and MW40DR). The iron concentrations in excess of the Class I ILGWQS (5 mg/L) range from 5.2 mg/L (MW6I) to 17.6 mg/L (MW22I).

Review of the time-concentration plots for iron at monitoring well MW6S, in the shallow zone, indicates that although the current (2011) concentration is higher than the previous (2010) result, the overall concentration trend appears to be stable or decreasing over time. The iron concentration in the sample from monitoring well MW5SR (10.3 mg/L) exceeded the ILGWQS for the first time in 2011. The iron concentrations identified from analysis of the samples collected at MW20S and MW24S in 2011 are higher than the previous (2010) results; however, the iron concentrations over time appear generally stable. The iron concentration from this reporting period at monitoring well MW36S was similar to that at MW5SR (10.7 mg/L), but limited historic information is available as this well has been dry during previous sampling events.

Review of the time-concentration plots for iron at monitoring wells MW22I and MW36I in the intermediate zone indicates that although the current (2011) concentrations are higher than the previous (2010) results the concentrations over time appear stable. The iron concentrations appear to be decreasing over time (since 2003) at monitoring well MW6I and since 2008 at well MW10I.

In the deep zone, the current (2011) iron concentration at well G111 is in the range of historic results and appears to be stable. The current iron concentration (11.1 mg/L) at well MW40DR is higher than values reported from analysis of samples collected during the period 2008 through 2010, but still lower than the result from 2007, thus there is no apparent trend in the data.

It should be noted that the IEPA has established background values for local groundwater and well specific (i.e., intrawell) statistical limits for certain parameters in conjunction with the permit granted for the adjacent solid waste disposal facility – the Woodland RDF, IEPA Permit No. 1995-077-LFM, Site No. 0894830005. The local background value for total iron is 8.86 mg/L. This information confirms that there is a significant background contribution to the identified iron concentrations. Finally, it should be noted that iron is a public welfare parameter, and concentrations exceeding the screening criteria are not indicative of a health concern. As such, there is no MCL for iron, and the exceedances are related only to the Class I ILGWQS.

3.4.4.2 Chromium

Chromium concentrations exceeded the screening criteria in samples collected from four wells during this sampling period (Tri-County: MW12IR; and Elgin: MW20S, MW24S, and MW37S). The results range from 0.11 mg/L (MW24S) to 2.6 mg/L (MW12IR) exceeding the MCL and Class 1 ILGWQS of 0.1 mg/L. These results are from analysis of samples from wells that are located to the north and west of the Elgin Landfill in the shallow zone, and south of the Tri-County Landfill in the intermediate zone.

Review of the time-concentration plot for chromium at well MW20S, in the shallow zone, indicates a potentially increasing trend since 2008. Samplers noted high turbidity during purging and sampling of this well. Elevated metals concentrations can be associated with sediment (i.e., turbidity), therefore, the chromium result may be associated with the solid fraction, which is not mobile in groundwater. Data from analysis of samples collected during future annual events will be assessed to further evaluate the significance of the current result. During this reporting period, chromium was also reported in analysis of the sample from well MW24S at a concentration of 0.11 mg/L. This concentration is above the screening criteria, but within the range of values reported in the past. The result from analysis of the sample collected from well MW37S (0.21 mg/L) also exceeded the screening criteria (i.e., MCL and ILGWQS of 0.1 mg/L). This well (i.e., MW37S) is typically dry, thus comparison to recent data cannot be made since data from analysis of recent periodic samples from this well are not available.

The chromium concentration at well MW12IR, in the intermediate zone, in 2011 (2.6 mg/L) is higher than recent results. This result is an anomaly in that although past results have been above the screening criteria, they have been relatively consistent. Data from analysis of samples collected during future annual events will be assessed to further evaluate the significance of the current result.

3.4.4.3 Manganese

Manganese concentrations exceeded the screening criteria (ILGWQS = 0.15 mg/L) in samples collected from 14 wells during this sampling period (Tri-County: MW5SR, MW6S, MW12SR,

MW39S, MW41S, MW39I, and MW40DR; and Elgin: MW20S, MW22I, MW24S, MW36D, MW36I, MW36S, and MW38D).

These results are from analysis of samples from wells that are distributed geographically and within each of the identified groundwater zones at the Site: shallow (MW5SR, MW6S, MW12SR, MW39S, MW41S, MW20S, MW24S, and MW36S), intermediate (MW39I, MW22I, and MW36I), and deep (MW36D, MW38D and MW40DR). The manganese concentrations in excess of the screening criteria range from 0.18 mg/L (MW22I) to 0.57 mg/L (MW6S).

Review of the time-concentration plots for manganese at wells in the shallow zone, where 8 of the 14 exceedances of the screening criteria were identified, indicates that the concentrations are stable or decreasing over time. It should be noted that well MW36S is typically dry, thus comparison to recent data cannot be made since data from analysis of recent periodic samples from this well are not available.

In the intermediate zone, manganese concentrations at wells MW22I and MW36I appear to be stable or decreasing over time. The current (2011) manganese concentration at well MW39I is lower than the 2010 result, but still higher than results observed from 2003 to 2009.

In the deep zone, the manganese concentrations at well MW36D and MW38D appear to be stable or decreasing over time. Although the manganese concentration at MW36D has increased over the last two reporting periods the 2011 concentration is at the lower end of historic values for that well. The manganese concentration at MW38D continues to fluctuate, but shows an overall decreasing trend in concentration. The current (2011) concentration at MW40DR is higher than past results, but very close to the concentration reported in 2010. Results from analysis of samples collected as part of future annual events will be assessed to further evaluate the significance of the current result.

It should be noted that the IEPA has established background values for local groundwater for certain parameters in conjunction with the permit granted for the adjacent solid waste disposal facility – the Woodland RDF, IEPA Permit No. 1995-077-LFM, Site No. 0894830005. The local background value for manganese is 0.048 mg/L. This information confirms that there is a significant background contribution to the identified manganese concentrations. Finally, it should be noted that manganese is a public welfare parameter and concentrations exceeding the screening criteria are not indicative of a health concern. As such, there is no MCL for manganese and the exceedances are related only to the Class I ILGWQS.

3.4.4.4 Nickel

Nickel concentrations exceeded the screening criteria in samples collected from three wells during this sampling period (Tri-County: MW12IR; and Elgin: MW20S and MW24S). Nickel results from these wells that exceeded the ILGWQS (0.1 mg/L) ranged from 0.16 mg/L (MW12IR) to 0.37 mg/L (MW20S). These results are from analysis of samples from wells that are located generally north and west of the landfill and are found within two of the identified groundwater zones at the Site: shallow (MW20S and MW24S) and intermediate (MW12IR).

Review of the time-concentration plots for nickel at well MW20S indicates that the current (2011) concentration is higher than results from the identified period (2003 to 2011). Results from analysis of samples collected as part of future annual events will be assessed to further evaluate the significance of the current result. The 2011 concentration at well MW24S is within the range of prior results, thus there is no apparent trend, and the concentrations over time are stable. Samplers noted high turbidity during purging and sampling of this well. Elevated metals concentrations can be associated with sediment (i.e., turbidity), therefore, the nickel result may be associated with the solid fraction, which is not mobile in groundwater.

In the intermediate groundwater zone, the current (2011) nickel result from analysis of the sample from well MW12IR is lower than results from 2009 and 2010. The current result is contrary to an increasing trend, but the concentrations are noted to fluctuate over time.

It should be noted that the IEPA has established background values for local groundwater for certain parameters in conjunction with the permit granted for the adjacent solid waste disposal facility – the Woodland RDF, IEPA Permit No. 1995-077-LFM, Site No. 0894830005. The local background value for nickel is 0.040 mg/L. This information confirms that there is a significant background contribution to the identified nickel concentrations. Finally, it should be noted that nickel is a public welfare parameter and concentrations exceeding the screening criteria are not indicative of a health concern. There is no MCL for nickel, thus the exceedances are related only to the Class I ILGWQS.

3.4.4.5 Arsenic

Arsenic concentrations exceeded the screening criteria in samples collected from five wells during this sampling period (Tri-County: MW6S, MW12SR, MW12IR, and MW40DR and Elgin: MW22I). The arsenic results exceeded the MCL (0.01 mg/L), but not the Class 1 ILGWQS (0.05 mg/L).

These results are from analysis of samples from wells that are generally located along the southern portion of the landfill, with the exception of MW22I located near the northwest corner of the Site, and within the three identified groundwater zones at the Site: shallow (MW6S and MW12SR), intermediate (MW12IR and MW22I), and deep (MW40DR). The arsenic concentrations in excess of the screening criteria range from 0.014 mg/L (MW6S) to 0.044 mg/L (MW22I).

Arsenic results in excess of the screening criteria from analysis of samples from monitoring wells located in the shallow zone generally show less fluctuation than concentrations over time identified in samples from the identified wells in the intermediate and deep zones. The current arsenic result (2011) from analysis of the sample from monitoring well MW22I is higher than past results. Results from analysis of samples collected as part of future annual events will be assessed to further evaluate the significance of the current result. The 2011 arsenic result at well MW40R, in the deep zone, is higher than that reported in the recent past, but still below concentrations identified in prior samples, thus there is no evidence of a trend over time.

It should be noted that the IEPA has established background values for local groundwater and well-specific (i.e., intrawell) statistical limits for certain parameters in conjunction with

the permit granted for the adjacent solid waste disposal facility – the Woodland RDF, IEPA Permit No. 1995-077-LFM, Site No. 0894830005. The local background value for dissolved arsenic is 0.0251 mg/L. IEPA has also established an intrawell statistical limit for arsenic at well G142, which is located in the intermediate zone. This well is identified as G242 for the adjacent facility and is assigned a value of 0.054 mg/L as an AGQS for dissolved arsenic. This information confirms that there is a significant background contribution to the identified arsenic concentrations.

3.4.4.6 Lead

The lead concentration exceeded the screening criteria in samples collected from two wells during this sampling period (Tri-County: MW10I and Elgin: MW36S). The results exceeded the Class I ILGWQS (0.0075 mg/L), but not the MCL (0.015 mg/L).

These results are from analysis of samples from wells that are located near the northwest corner of the Elgin Landfill and southeast corner of the Tri-County Landfill, and within two of the three identified groundwater zones at the Site: shallow (MW36S) and intermediate (MW10I).

The lead concentration at well MW10I was 0.0086 mg/L, which is lower than the concentration reported in 2010 (0.0105 mg/L). The lead concentration at MW10I appears to be stable or decreasing over time. The lead concentration from analysis of the sample collected at monitoring well MW36S during this reporting period was 0.008 mg/L. It should be noted that well MW36S is typically dry, thus comparison to recent data cannot be made since data from analysis of recent periodic samples from this well are not available.

It should be noted that the IEPA has established background values for local groundwater and well-specific (i.e., intrawell) statistical limits for certain parameters in conjunction with the permit granted for the adjacent solid waste disposal facility – the Woodland RDF, IEPA Permit No. 1995-077-LFM, Site No. 0894830005. The local background value for total lead is 0.005 mg/L. This information confirms that there is a significant background contribution to the identified lead concentration.

3.4.5 Private Wells

Exceedances of the screening criteria were identified from laboratory analysis of samples from two of the three private wells sampled.

- The results from analysis of the sample collected from well PW07 during this sampling period exceeded the screening criteria for four analytes including arsenic, chloride, iron, and TDS. There were no VOCs identified in the samples from that well.

  The sample from PW07 was reportedly taken at the bathroom sink in the Woodland Landfill office. The current (2011) concentration of arsenic in the sample from PW07 was at the concentration established as the MCL (0.01 mg/L), but below the concentration of the ILGWQS (0.05 mg/L). The reported concentrations of other analytes (chloride, iron, TDS) are public welfare parameters and concentrations

exceeding the screening criteria are not indicative of a health concern. It should be noted that the well water is used only as a non-potable water source. Bottled water is provided for consumption.

- There were no exceedances of the screening criteria identified from analysis of the sample collected at PW09 during the 2011 sampling event. PW09 was collected from the sink in the bathroom at a local cement plant.

- The results from analysis of the sample collected from PW23 during this period exceeded the screening criteria for chloride and manganese. These analytes (chloride, manganese) are public welfare parameters and concentrations exceeding the screening criteria are not indicative of a health concern. There were no VOCs identified in the samples from that well.

A sample could not be collected from private well PW22 during the 2011 sampling event. PW22 is the former Arc Disposal & Recycling Company (Arc Disposal). The building is currently vacant and locked. Water to the outside spigots was turned off.

3.4.6 Natural Attenuation Parameters

The results from this reporting period were reviewed to assess the potential for natural attenuation. Relevant field parameters or laboratory results include dissolved oxygen (DO), oxidation reduction potential (Eh/ORP), metals (manganese and iron), sulfate, and nitrate/nitrite. Iron analysis is performed as both a field parameter (ferrous iron) and by the laboratory (total iron).

DO results taken as field measurements during well sampling range from 0.08 mg/L to 8.89 mg/L during this sampling period. More than 70 percent of the results were greater than 2 mg/L, which indicates that there is sufficient oxygen present in groundwater to promote natural degradation under aerobic conditions.

Eh/ORP field measurements are negative at most of the sampling points. Within the Tri-County sample points, the only positive values were measured at wells located in the shallow zone. The measurements within that zone also exhibited the greatest range of variability. The measurements taken at the Elgin wells are consistent with the Tri-County data in that most of the results are negative and the highest positive values are from wells in the shallow zone. These measurements are consistent with conditions that would support degradation of contaminants (i.e., natural attenuation).

The results from field analysis for ferrous iron (Fe^{+2}) indicate concentrations up to 0.31 mg/L at the Tri-County wells, and 8.4 mg/L at the Elgin wells. There were only two monitoring wells (MW1S and MW6I) at Tri-County and four wells at Elgin (MW36D, MW9I, MW37S, and MW24S) where no ferrous iron was quantified. These results are consistent with electron transfer (i.e., iron reduction), which is evidence of natural attenuation.

Laboratory results for metals (iron and manganese), sulfate, and nitrate/nitrite are all generally consistent with an aerobic environment away from the waste mass and limited areas in proximity

to the waste where conditions are reducing/anaerobic. There is no evidence of areas of severe reducing conditions where sulfate and nitrate would be reduced. The reducing environment may mobilize natural metals in soil (i.e., iron and manganese), but when exposed to an aerobic environment, these metals typically revert to the oxidized state and sorb to soil. These conditions are expected to support natural attenuation and degradation of organic compounds.

3.5 PROJECTED ACTIVITIES

There will be continued groundwater sampling and analysis in accordance with the current plan, unless recommendations identified in **Section 3.8** of this report are approved by the USEPA. The annual groundwater sampling event is anticipated to occur in June 2012.

3.6 SUMMARY OF MEETINGS

There were no meetings during the past year (2011).

3.7 CONCLUSIONS

The data from the 2011 annual sampling event at the Tri-County and Elgin Landfills is complete and acceptable for use. Review of laboratory quality control data and results from analysis of quality control samples do not indicate any significant issues with regard to data quality.

Site monitoring wells were sampled and the analysis performed as requested. Three of the four private wells were sampled. The Arc Disposal (PW22) building is currently vacant and locked; therefore, a sample was not obtained. Monitoring well PZ32 was dry during the 2011 sampling period, thus the anticipated water elevation was not obtained.

The data from this sampling period are generally consistent with data from prior annual sampling events. There were no concentrations of VOCs, SVOCs, mercury, or cyanide identified above the MCLs established under the Federal Safe Drinking Water Act or the Class I ILGWQS established under 35 Illinois Administrative Code 620.410 in well samples collected during this reporting period.

Groundwater elevation measurements from this reporting period are consistent with past data, in that groundwater flow in the shallow zone is primarily toward the north in the northern area of the Site, and to the south in the southern area of the Site. Groundwater flow in the intermediate zone is primarily to the south/southeast in the vicinity of the Site, with the exception of the northwest corner where water flows to the northwest. Data from measurements at nested wells indicate generally upward gradients between the shallow and intermediate zones, and downward gradients from the intermediate to deep zones on the Elgin side of the Site. Tri-County nested wells are generally downward between the identified hydrostratigraphic units at the Site, where vertical flow is impeded by fine grain (low permeability) soil.

The results from analysis of samples from three private wells in the vicinity of the Site do not indicate site-related impacts. Although the arsenic concentration at PW07 during this reporting period was at the MCL value of 0.01 mg/L, the current (2011) result is still below the ILGWQS

of 0.05 mg/L. In addition, the well is not used as a potable water source. No additional action is warranted.

Turbidity in well samples above 10 NTUs occurred at several monitoring locations and appears to be naturally occurring and not related to sampling techniques. Groundwater samples are collected from monitoring wells using low-flow techniques and are not filtered prior to laboratory analysis. This practice may be related to the noted variability in results, especially with regard to metals (i.e., iron, manganese, chromium, nickel, lead, and arsenic) concentrations. Elevated metals concentrations can be associated with sediment (i.e., turbidity), but are not mobile in groundwater. No changes to the sampling procedures are warranted.

Natural attenuation continues to be effective in reducing the concentration of organic contaminant concentrations in the vicinity of the Site. While there may be areas in the vicinity of the waste mass where anaerobic (reducing) conditions exist in groundwater, the data described above indicate that groundwater conditions further away from the waste mass are generally aerobic. These conditions promote biodegradation of a wide range of organic compounds and are consistent with the fact that no VOCs or SVOCs were identified above the screening criteria during the 2011 sampling event.

3.8 RECOMMENDATIONS

Due to the consistent lack of VOCs and SVOCs being identified above the screening criteria at the Site, laboratory analysis for SVOCs, mercury, and cyanide could be omitted from the list of parameters for which laboratory analysis is required at the Site.

As previously described in more detail in **Section 2.6**, in consideration of the low volume and quality of landfill gas currently generated by waste decomposition at the Site, replacement or conversion of the blower/flare at the Site is warranted.

Continue efforts to monitor institutional controls related to land and groundwater use restrictions.

4.0 COMMUNITY RELATIONS

WMIL maintains contact with the Wildlife Habitat Council and has implemented recommendations from that organization to improve the wildlife habitat at the Tri-County Landfill. The work includes establishing a mowing schedule to promote diversity of vegetative species and minimize disturbance to nesting birds, and installation and maintenance of nest boxes for purple martins, bluebirds, bats and wood ducks.

5.0 2012 ACTIVITIES

Continued groundwater sampling and analysis in accordance with the current plan, unless recommendations identified herein are approved by the USEPA.

TABLES

1 Tri-County/Elgin Landfills – 2011 Flare Operational Data
2 Groundwater Monitoring Schedule and Required Parameters – Tri-County/Elgin Landfills
3 Parameter List – VOC Analysis
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5 Parameter List – Metals & Cyanide Analysis
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11 Elgin Landfill – Exceedances of Screening Criteria

Table 1. Flare Operational Data
Tri-County/Elgin Landfills

Date	Differential Pressure (in. water)	Gas Flow (cfm)	Methane (%)	Carbon Dioxide (%)	Oxygen (%)	Balance (%)	Runtime (Hours)	Notes
3/24/2011	0.705	75	26.6	24.1	1.7	47.5	1051.3	
6/29/2011	-0.002	NR	6.0	4.0	17.9	72.5	1135.6	System Off
9/19/2011	1.392	100	47.1	28.2	1.8	22.5	760.0	
12/28/2011	1.319	100	48.5	28.2	1.9	21.2	683.5	

Abbreviations:
cfm = cubic feet per minute
NR = Not Recorded

Created by: TLC Date: 1/9/2012
Last revision by: RRJ Date: 2/8/2012
Checked by: GLS Date: 2/8/2012

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Table 2
Groundwater Monitoring Schedule and Required Parameters
Tri-County/Elgin Landfills

Landfill	Well	Hydrostatic Unit Location	VOC	SVOC	Metals and Cyanide	Indicator Parameters	Water Levels
Tri-County	G135	Shallow				A	A
Tri-County	MW1S	Shallow				A	A
Tri-County	MW2SR	Shallow	A		A	A	A
Tri-County	MW5SR	Shallow	A		A	A	A
Tri-County	MW6S	Shallow	A	A	A	A	A
Tri-County	MW10S	Shallow	A		A	A	A
Tri-County	MW12SR	Shallow	A	A	A	A	A
Tri-County	MW25S	Shallow				A	A
Tri-County	MW38S	Shallow	A		A	A	A
Tri-County	MW39S	Shallow	A		A	A	A
Tri-County	MW41S	Shallow	A		A	A	A
Tri-County	PZ29	Shallow-Piezometer					A
Tri-County	PZ32	Shallow-Piezometer					A
Tri-County	G142	Intermediate	A		A	A	A
Tri-County	MW1I1	Intermediate	A			A	
Tri-County	MW1I2	Intermediate	A			A	
Tri-County	MW2IR	Intermediate	A		A	A	A
Tri-County	MW5IR	Intermediate	A		A	A	A
Tri-County	MW06I	Intermediate	A		A	A	A
Tri-County	MW10I	Intermediate	A		A	A	A
Tri-County	MW12IR	Intermediate	A	A	A	A	A
Tri-County	MW13IR	Intermediate	A	A	A	A	A
Tri-County	MW39I	Intermediate	A		A	A	A
Tri-County	G112	Deep				A	A
Tri-County	MW1DR	Deep	A			A	A
Tri-County	MW40DR	Deep	A		A	A	A
Tri-County	PW07	Private Well	A		A	A	
Tri-County	PW09	Private Well	A		A	A	
Tri-County	PW22	Private Well	A		A	A	
Tri-County	PW23	Private Well	A		A	A	
Elgin	MW9S	Shallow	A			A	A
Elgin	MW20S	Shallow	A		A	A	A
Elgin	MW21S	Shallow	A		A	A	A
Elgin	MW24S	Shallow	A		A	A	A
Elgin	MW36S	Shallow	A		A	A	A
Elgin	MW37S	Shallow	A		A	A	A
Elgin	MW9I	Intermediate	A			A	A
Elgin	MW22I	Intermediate	A	A	A	A	A
Elgin	MW23I	Intermediate	A	A	A	A	A
Elgin	MW36I	Intermediate	A		A	A	A
Elgin	MW38I	Intermediate	A		A	A	A
Elgin	G141	Intermediate	A		A	A	A
Elgin	MW9D	Deep	A				A
Elgin	MW36D	Deep	A		A	A	A
Elgin	MW38D	Deep	A		A	A	A
Elgin	G111	Deep	A		A	A	A

NOTES:
A = sampled annually VOCs = volatile organic compounds SVOCs = semi-volatile organic compounds
PW07 - located in sink of bathroom at office at Woodland.
PW09 - located in bathroom next to break room at Elgin Chicago Stone across from landfill.
PW22 - building vacant and locked. No sample could be obtained.
PW23 - hose mounted to wall in Repair Bay.

Table 3
Parameter List – Volatile Organic Compound Analysis
Tri-County/Elgin Landfills

Parameter Name	SQL	Units
1,1,1-Trichloroethane	1	µg/l
1,1,2,2-Tetrachloroethane	1	µg/l
1,1,2-Trichloroethane	1	µg/l
1,1-Dichloroethane	1	µg/l
1,1-Dichloroethene	1	µg/l
1,2-Dichloroethane	1	µg/l
cis-1,2-Dichloroethne	1	µg/l
trans-1,2-Dichloroethene	1	µg/l
1,2-Dichloropropane	1	µg/l
Methyl Ethyl Ketone (2-Butanone)	10	µg/l
2-Hexanone	10	µg/l
4-Methyl-2-Pentanone (MIBK)	10	µg/l
Acetone	10	µg/l
Benzene	1	µg/l
Bromodichloromethane	1	µg/l
Bromoform	1	µg/l
Bromomethane (Methyl Bromide)	1	µg/l
Carbon Disulfide	5	µg/l
Carbon Tetrachloride	1	µg/l
Chlorobenzene	1	µg/l
Chloroethane	1	µg/l
Chloroform	1	µg/l
Chloromethane (Methyl Chloride)	1	µg/l
cis-1,3-Dichloropropene	1	µg/l
Dibromochloromethane	1	µg/l
Ethylbenzene	1	µg/l
Methylene Chloride (Dichloromethane)	2	µg/l
Styrene	1	µg/l
Tetrachloroethene	1	µg/l
Toluene	1	µg/l
trans-1,3-Dichloropropene	1	µg/l
Trichlorethene	1	µg/l
Vinyl Chloride	1	µg/l
Xylenes, total	3	µg/l

NOTES:
µg/l = micrograms per liter
SQL = Site Quantitation Limit as identified in the 2008 Annual Report

Table 4
Parameter List – Semi-Volatile Organic Compound Analysis
Tri-County/Elgin Landfills

Parameter Name	SQL	Units
1,2,4-Trichlorobenzene	10	µg/l
1,2-Dichlorobenzene	10	µg/l
1,3-Dichlorobenzene	10	µg/l
1,4-Dichlorobenzene	10	µg/l
2,4,5-Trichlorophenol	50	µg/l
2,4,6-Trichlorophenol	10	µg/l
2,4-Dichlorophenol	10	µg/l
2,4-Dimethylphenol	10	µg/l
2,4-Dinitrophenol	50	µg/l
2,4-Dinitrotoluene	10	µg/l
2,6-Dinitrotoluene	10	µg/l
2-Chloronaphthalene	10	µg/l
2-Chlorophenol	10	µg/l
2-Methylnaphthalene	10	µg/l
2-Methylphenol (o-Cresol)	10	µg/l
2-Nitroaniline	50	µg/l
2-Nitrophenol	10	µg/l
3,3-Dichlorobenzidine	10	µg/l
3-Nitroaniline	50	µg/l
4,6-Dinitro-o-Cresol	50	µg/l
4-Bromophenyl Phenyl Ether	10	µg/l
4-Chloro-3-Methylphenol	10	µg/l
4-Chloroaniline	10	µg/l
4-Chlorophenyl Phenyl Ether	10	µg/l
4-Methylphenol (p-Cresol)	10	µg/l
4-Nitroaniline	50	µg/l
4-Nitrophenol	50	µg/l
Acenaphthene	10	µg/l
Acenaphthylene	10	µg/l
Anthracene	10	µg/l
Benzo(a)Anthracene	10	µg/l
Benzo(a)Pyrene	10	µg/l
Benzo(b)Fluoranthene	10	µg/l
Benzo(ghi)Perylene	10	µg/l
Benzo(k)Fluoranthene	10	µg/l
bis(2-Chloroethoxy)Methane	10	µg/l
bis(2-Chloroethyl)Ether	10	µg/l
bis(2-Chloro-1-Methylethyl)Ether	10	µg/l
bis(2-Ethylhexyl)Phthalate	10	µg/l
Butyl Benzyl Phthalate	10	µg/l
Carbazole	10	µg/l
Chrysene	10	µg/l
Di-N-Butyl Phthalate	10	µg/l
Di-N-Octyl Phthalate	10	µg/l
Dibenzo(a,h)Anthracene	10	µg/l
Dibenzofuran	10	µg/l
Diethylphthalate	10	µg/l

Table 4
Parameter List – Semi-Volatile Organic Compound Analysis
Tri-County/Elgin Landfills

Parameter Name	SQL	Units
Dimethylphthalate	10	µg/l
Fluoranthene	10	µg/l
Fluorene	10	µg/l
Hexachlorobenzene	10	µg/l
Hexachlorobutadiene	40	µg/l
Hexachlorocyclopentadiene	10	µg/l
Hexachloroethane	10	µg/l
Indeno(1,2,3-cd)Pyrene	10	µg/l
Isophorone	10	µg/l
n-Nitrosodipropylamine	10	µg/l
n-Nitrosodiphenylamine	10	µg/l
Naphthalene	10	µg/l
Nitrobenzene	10	µg/l
Pentachlorophenol	50	µg/l
Phenanthrene	10	µg/l
Phenol	10	µg/l
Pyrene	10	µg/l

NOTES:
µg/l = micrograms per liter
SQL = Site Quantitation Limit as identified in the 2008 Annual Report

Table 5
Parameter List – Metals & Cyanide Analysis
Tri-County/Elgin Landfills

Parameter Name	SQL	Units
Aluminum (total)	30	µg/l
Antimony (total)	6	µg/l
Arsenic (total)	20	µg/l
Barium (total)	5	µg/l
Beryllium (total)	1	µg/l
Cadmium (total)	1	µg/l
Calcium (total)	40	µg/l
Chromium (total)	3	µg/l
Cobalt (total)	3	µg/l
Copper (total)	4	µg/l
Iron (total)	60	µg/l
Lead (total)	5	µg/l
Magnesium (total)	50	µg/l
Manganese (total)	1.2	µg/l
Mercury (total)	0.4	µg/l
Nickel (total)	4	µg/l
Potassium (total)	150	µg/l
Selenium (total)	10	µg/l
Silver (total)	4	µg/l
Sodium (total)	1,000	µg/l
Thallium (total)	2	µg/l
Vanadium (total)	3	µg/l
Zinc (total)	5	µg/l
Cyanide (total)	20	µg/l

NOTES:
µg/l = micrograms per liter
SQL = Site Quantitation Limit as identified in the 2008 Annual Report

Table 6
Parameter List – Indicator Analysis
Tri-County/Elgin Landfills

Parameter Name	SQL	Units
Alkalinity, total (as CaCO3)	1,000	µg/l
Chloride (total)	1,000	µg/l
N-Nitrate (total)	50	µg/l
N-Nitrite (total)	50	µg/l
Sulfate (total)	1,000	µg/l
Sulfide (total)	1,000	µg/l
Total Suspended Solids	4,000	µg/l
Total Dissolved Solids	10,000	µg/l
Total Organic Carbon	1,000	µg/l
Ferrous Iron	NA	µg/l

NOTES:
µg/l = micrograms per liter
SQL = Site Quantitation Limit as identified in the 2008 Annual Report

Table 7
Tri-County Landfill
Groundwater Elevations

Well ID	Sample Date	Groundwater Zone	Top of Casing Elevation (ft MSL)	Depth to Water (ft)	Groundwater Elevation (ft MSL)	Initial Water Levels 06/13/2011 Depth to Water (ft)	Initial Water Levels 06/13/2011 Groundwater Elevation (ft MSL)
G135	6/20/2011	Shallow	759.16	19.12	740.04	18.59	740.57
MW1S	6/20/2011	Shallow	741.14	3.61	737.53	3.46	737.68
MW2SR	6/14/2011	Shallow	759.26	18.61	740.65	18.61	740.65
MW5SR	6/15/2011	Shallow	748.17	6.42	741.75	6.35	741.82
MW6S	6/20/2011	Shallow	743.96	2.76	741.20	2.56	741.40
MW10S	6/15/2011	Shallow	756.64	11.54	745.10	11.70	744.94
MW12SR	6/17/2011	Shallow	757.37	16.36	741.01	15.82	741.55
MW25S	6/20/2011	Shallow	749.22	11.00	738.22	10.84	738.38
MW38S	6/15/2011	Shallow	755.02	8.89	746.14	8.75	746.27
MW39S	6/14/2011	Shallow	739.45	4.08	735.37	3.90	735.55
MW41S	6/15/2011	Shallow	757.34	16.72	740.62	16.83	740.51
PZ29	6/13/2011	Shallow	757.48	9.38	748.10	9.38	748.10
PZ32	6/13/2011	Shallow	760.74	Dry	Dry	Dry	Dry
G142	6/14/2011	Intermediate	758.49	20.56	737.93	20.70	737.79
MW1I1	6/16/2011	Intermediate	740.97	13.42	727.55	13.20	727.77
MW1I2	6/16/2011	Intermediate	741.3	11.69	729.61	11.58	729.72
MW2IR	6/14/2011	Intermediate	759.15	24.36	734.79	24.37	734.78
MW5IR	6/15/2011	Intermediate	746.87	13.20	733.67	13.49	733.38
MW6I	6/15/2011	Intermediate	743.94	12.07	731.87	12.08	731.86
MW10I	6/15/2011	Intermediate	756.12	21.15	734.97	21.38	734.74
MW12IR	6/17/2011	Intermediate	757.28	21.99	735.29	21.88	735.40
MW13IR	6/17/2011	Intermediate	757.6	23.21	734.39	23.33	734.27
MW39I	6/14/2011	Intermediate	738.91	11.87	727.04	11.65	727.26
G112	6/17/2011	Deep	758.68	34.55	725.12	34.26	724.42
MW1DR	6/16/2011	Deep	742.39	13.01	729.54	12.85	729.54
MW40DR	6/15/2011	Deep	757.43	27.92	729.51	27.89	729.54

Notes:
ft MSL = feet above Mean Sea Level
Top of Casing Elevations taken from the 2003 Annual Groundwater Monitoring Report submitted to EPA, June 11, 2004.

Table 8
Elgin Landfill
Groundwater Elevations

Well ID	Sample Date	Groundwater Zone	Top of Casing Elevation (ft MSL)	Depth to Water (ft)	Groundwater Elevation (ft MSL)	Initial Water Levels 6/13/2011 Depth to Water (ft)	Initial Water Levels 6/13/2011 Groundwater Elevation (ft MSL)
MW9S	6/14/2011	Shallow	748.49	10.50	737.99	10.46	738.03
MW20S	6/15/2011	Shallow	766.75	29.87	736.88	30.00	736.75
MW21S	6/15/2011	Shallow	766.49	29.78	736.71	30.42	736.07
MW24S	6/15/2011	Shallow	763.82	25.14	738.68	25.22	738.60
MW36S	6/14/2011	Shallow	766.85	30.71	736.14	30.79	736.06
MW37S	6/15/2011	Shallow	764.65	28.31	736.34	28.35	736.30
G141	6/16/2011	Intermediate	761.93	28.42	733.51	28.44	733.49
MW9I	6/14/2011	Intermediate	748.88	10.85	738.03	10.82	738.06
MW22I	6/15/2011	Intermediate	766.31	32.72	733.59	32.79	733.52
MW23I	6/15/2011	Intermediate	767.88	34.15	733.73	34.24	733.64
MW36I	6/14/2011	Intermediate	766.87	32.52	734.35	32.55	734.32
MW38I	6/14/2011	Intermediate	757.29	23.02	734.27	23.05	734.24
G111	6/16/2011	Deep	762.20	31.99	730.21	32.06	730.14
MW9D	6/14/2011	Deep	748.06	10.24	737.82	10.34	737.72
MW36D	6/14/2011	Deep	766.56	35.51	731.05	34.19	732.37
MW38D	6/14/2011	Deep	757.57	23.78	733.79	24.22	733.35

Notes:
ft MSL = feet above Mean Sea Level

By: MOB 7/12/12
Checked: RRJ 7/12/12

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Table 9
Tri-County Landfill
Exceedances of EPA MCL and/or Illinois Class I Groundwater Quality Standards
Monitoring Wells

Well ID	Sample Date	Parameter	Result	Reporting Limit	Qualifier	Units	MCL	Class I ILGWQS
MW5SR	**6/15/2011**	**Iron**	**10.3**	**0.060**		**MG/L**		**5**
MW5SR	**6/15/2011**	**Manganese**	**0.42**	**0.0010**		**MG/L**		**0.15**
MW6S	*6/20/2011*	*Arsenic*	*0.014*	*0.010*		*MG/L*	*0.01*	*0.05*
MW6S	**6/20/2011**	**Iron**	**12.2**	**0.060**		**MG/L**		**5**
MW6S	**6/20/2011**	**Manganese**	**0.57**	**0.0010**		**MG/L**		**0.15**
MW12SR	*6/17/2011*	*Arsenic*	*0.013*	*0.010*		*MG/L*	*0.01*	*0.05*
MW12SR	**6/17/2011**	**Manganese**	**0.33**	**0.0010**		**MG/L**		**0.15**
MW39S	**6/14/2011**	**Manganese**	**0.27**	**0.0010**		**MG/L**		**0.15**
MW41S	**6/15/2011**	**Manganese**	**0.41**	**0.0010**		**MG/L**		**0.15**
G142	**6/14/2011**	**Chloride**	**472**	**2.8**		**MG/L**		**200**
G142	**6/14/2011**	**Total Dissolved Solids**	**1730**	**10.0**		**MG/L**		**1200**
MW6I	**6/15/2011**	**Iron**	**5.2**	**0.060**		**MG/L**		**5**
MW10I	**6/15/2011**	**Iron**	**7.4**	**0.060**		**MG/L**		**5**
MW10I	**6/15/2011**	**Lead**	**0.0086**	**0.0050**		**MG/L**	**0.015**	**0.0075**
MW12IR	*6/17/2011*	*Arsenic*	*0.017*	*0.010*		*MG/L*	*0.01*	*0.05*
MW12IR	***6/17/2011***	***Chromium***	***2.6***	***0.0030***		***MG/L***	***0.1***	***0.1***
MW12IR	**6/17/2011**	**Nickel**	**0.16**	**0.0040**		**MG/L**		**0.1**
MW39I	**6/14/2011**	**Manganese**	**0.36**	**0.0010**		**MG/L**		**0.15**
G112	**6/17/2011**	**Chloride**	**534**	**2.8**		**MG/L**		**200**
G112	**6/17/2011**	**Total Dissolved Solids**	**1970**	**10.0**		**MG/L**		**1200**
MW40DR	*6/15/2011*	*Arsenic*	*0.035*	*0.010*		*MG/L*	*0.01*	*0.05*
MW40DR	**6/15/2011**	**Chloride**	**309**	**2.8**		**MG/L**		**200**
MW40DR	**6/15/2011**	**Iron**	**11.1**	**0.060**		**MG/L**		**5**
MW40DR	**6/15/2011**	**Manganese**	**0.2**	**0.0010**		**MG/L**		**0.15**

Notes:
Chloride and metals concentrations are total.
MCL = US EPA Maximum Contaminant Level.
ILGWQS = Illinois Class I Groundwater Quality Standard.

Bold indicates exceedance of ILGWQS.

Italics indicates exceedance of MCL.

Bold and italics indicates exceedance of both the MCL and ILGWQS.

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Table 10
Tri-County Landfill
Exceedances of EPA MCL and/or Illinois Class I Groundwater Quality Standards
Private Wells

Well ID	Sample Date	Parameter	Result	Reporting Limit	Qualifier	Units	MCL	Class I ILGWQS
PW07	*6/17/2011*	*Arsenic*	*0.01*	*0.010*		*MG/L*	*0.01*	*0.05*
PW07	**6/17/2011**	**Chloride**	**925**	**2.8**		**MG/L**		**200**
PW07	**6/17/2011**	**Iron**	**16.8**	**0.060**		**MG/L**		**5**
PW07	**6/17/2011**	**Total Dissolved Solids**	**2640**	**16.0**		**MG/L**		**1200**
PW23	**6/17/2011**	**Chloride**	**279**	**1.4**		**MG/L**		**200**
PW23	**6/17/2011**	**Manganese**	**0.89**	**0.0010**		**MG/L**		**0.15**

Notes:
Chloride and metals concentrations are total.
MCL = US EPA Maximum Contaminant Level.
ILGWQS = Illinois Class I Groundwater Quality Standard.

Bold indicates exceedance of ILGWQS.

Italics indicates exceedance of MCL.

Bold and italics indicates exceedance of both the MCL and ILGWQS.

Table 11
Elgin Landfill
Exceedances of EPA MCL and/or Illinois Class I Groundwater Quality Standards
Monitoring Wells

Well ID	Sample Date	Parameter	Result	Reporting Limit	Qualifier	Units	MCL	Class I ILGWQS
G111	**6/16/11**	**Chloride**	**339**	**5**		**MG/L**		**200**
G111	**6/16/11**	**Iron**	**8.8**	**0.14**		**MG/L**		**5**
G111	**6/16/11**	**Total Dissolved Solids**	**1490**	**10**		**MG/L**		**1200**
MW20S	***6/15/11***	***Chromium***	***2.4***	***0.005***		***MG/L***	***0.1***	***0.1***
MW20S	**6/15/11**	**Manganese**	**0.28**	**0.003**	**B**	**MG/L**		**0.15**
MW20S	**6/15/11**	**Nickel**	**0.37**	**0.01**		**MG/L**		**0.1**
MW20S	**6/15/11**	**Total Dissolved Solids**	**1220**	**10**		**MG/L**		**1200**
MW22I	*6/15/11*	*Arsenic*	*0.044*	*0.003*		*MG/L*	*0.01*	*0.05*
MW22I	**6/15/11**	**Iron**	**17.6**	**0.14**		**MG/L**		**5**
MW22I	**6/15/11**	**Manganese**	**0.18**	**0.003**	**B**	**MG/L**		**0.15**
MW23I	**6/15/11**	**Chloride**	**215**	**5**		**MG/L**		**200**
MW24S	***6/15/11***	***Chromium***	***0.11***	***0.005***		***MG/L***	***0.1***	***0.1***
MW24S	**6/15/11**	**Iron**	**6**	**0.14**		**MG/L**		**5**
MW24S	**6/15/11**	**Manganese**	**0.54**	**0.003**	**B**	**MG/L**		**0.15**
MW24S	**6/15/11**	**Nickel**	**0.21**	**0.01**		**MG/L**		**0.1**
MW36D	**6/14/11**	**Manganese**	**0.4**	**0.003**		**MG/L**		**0.15**
MW36I	**6/14/11**	**Chloride**	**315**	**5**		**MG/L**		**200**
MW36I	**6/14/11**	**Iron**	**10.5**	**0.14**		**MG/L**		**5**
MW36I	**6/14/11**	**Manganese**	**0.24**	**0.003**		**MG/L**		**0.15**
MW36S	**6/14/11**	**Iron**	**10.7**	**0.14**		**MG/L**		**5**
MW36S	**6/14/11**	**Lead**	**0.008**	**0.005**		**MG/L**	**0.015**	**0.0075**
MW36S	**6/14/11**	**Manganese**	**0.23**	**0.003**		**MG/L**		**0.15**
MW37S	***6/15/11***	***Chromium***	***0.21***	***0.005***		***MG/L***	***0.1***	***0.1***
MW38D	**6/14/11**	**Manganese**	**0.23**	**0.003**		**MG/L**		**0.15**

Notes:
Chloride and metals concentrations are total.
MCL = US EPA Maximum Contaminant Level.
ILGWQS = Illinois Class I Groundwater Quality Standard.

Bold indicates exceedance of ILGWQS.

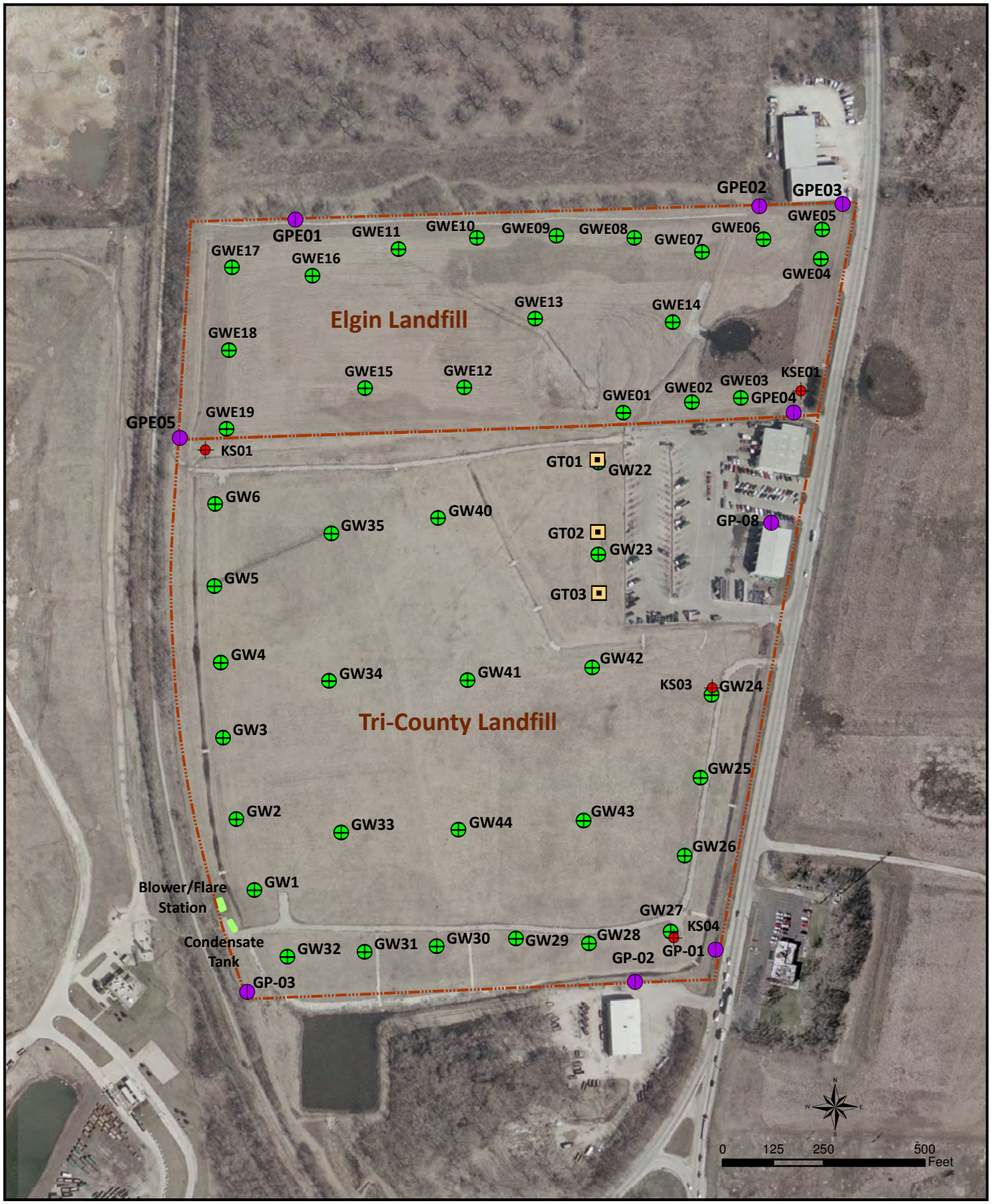
Italics indicates exceedance of MCL.

Bold and italics indicates exceedance of both the MCL and ILGWQS.

Qualifiers:
B = Analyte was detected in the associated Method Blank.

FIGURES

1 Site Features – Landfill Gas Control System
2 Groundwater Monitoring Well Locations
3 Groundwater Flow – Shallow Unit
4 Groundwater Flow – Intermediate Unit



Base image: USGS digital orthophoto, 2005

Legend

GWE01 Gas Well Location and Number

GP-01 Gas Probe Location and Number

GT01 Gas Trench Location and Number

KS01 Knockout Location and Number

Property Boundary

Blower/Flare Station and Condensate Tank

Figure 1

Site Features

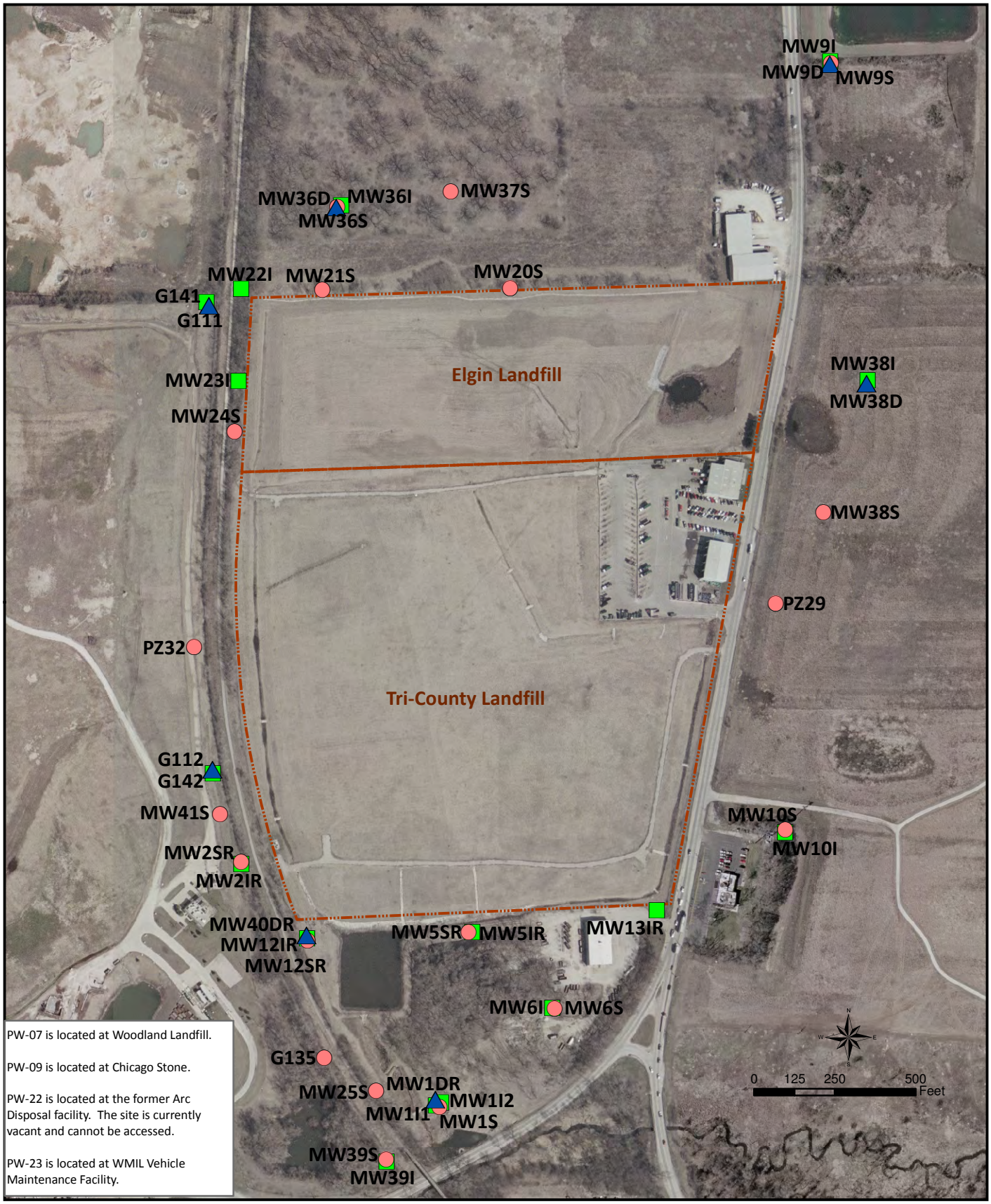
Landfill Gas Control System

Tri-County / Elgin Landfills

Town of St. Charles, Kane County, Illinois

SCS BT SQUARED

July 2012



Base image: USGS digital orthophoto, 2005

Figure 2

Groundwater Monitoring Well Locations

Tri-County / Elgin Landfills

Town of St. Charles, Kane County, Illinois

Legend

MW1S Shallow Hydrostratigraphic Unit Well Location and Number

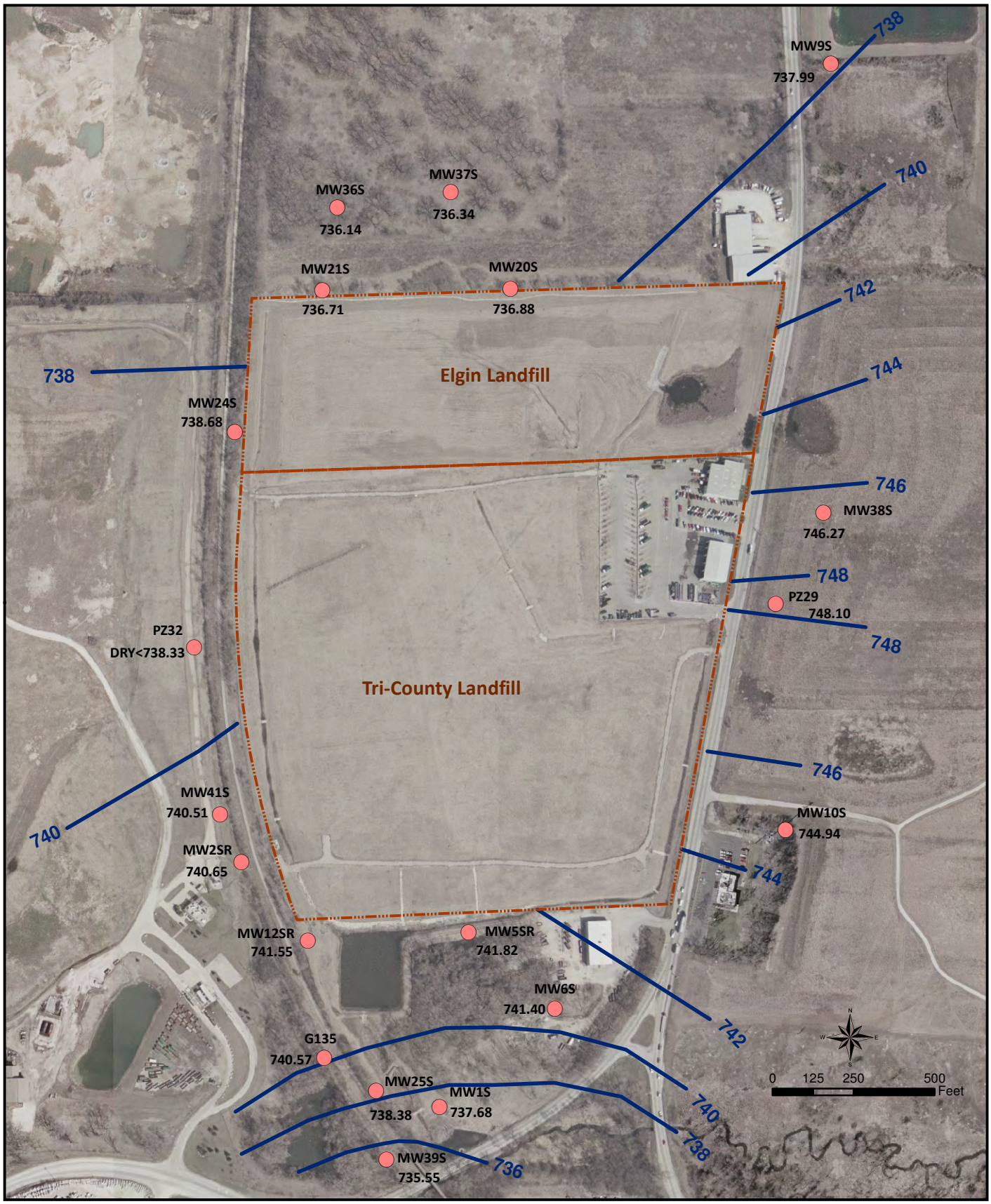
G142 Intermediate Hydrostratigraphic Unit Well Location and Number

G112 Deep Hydrostratigraphic Unit Well Location and Number

Property Boundary

SCS BT SQUARED

July 2011



Base image: USGS digital orthophoto, 2005

Legend

MW1S
737.68
Shallow Hydrostratigraphic Unit Well Location, Well Number and Groundwater Elevation

738
Groundwater Contour and Elevation (dashed where inferred)

Property Boundary

Figure 3

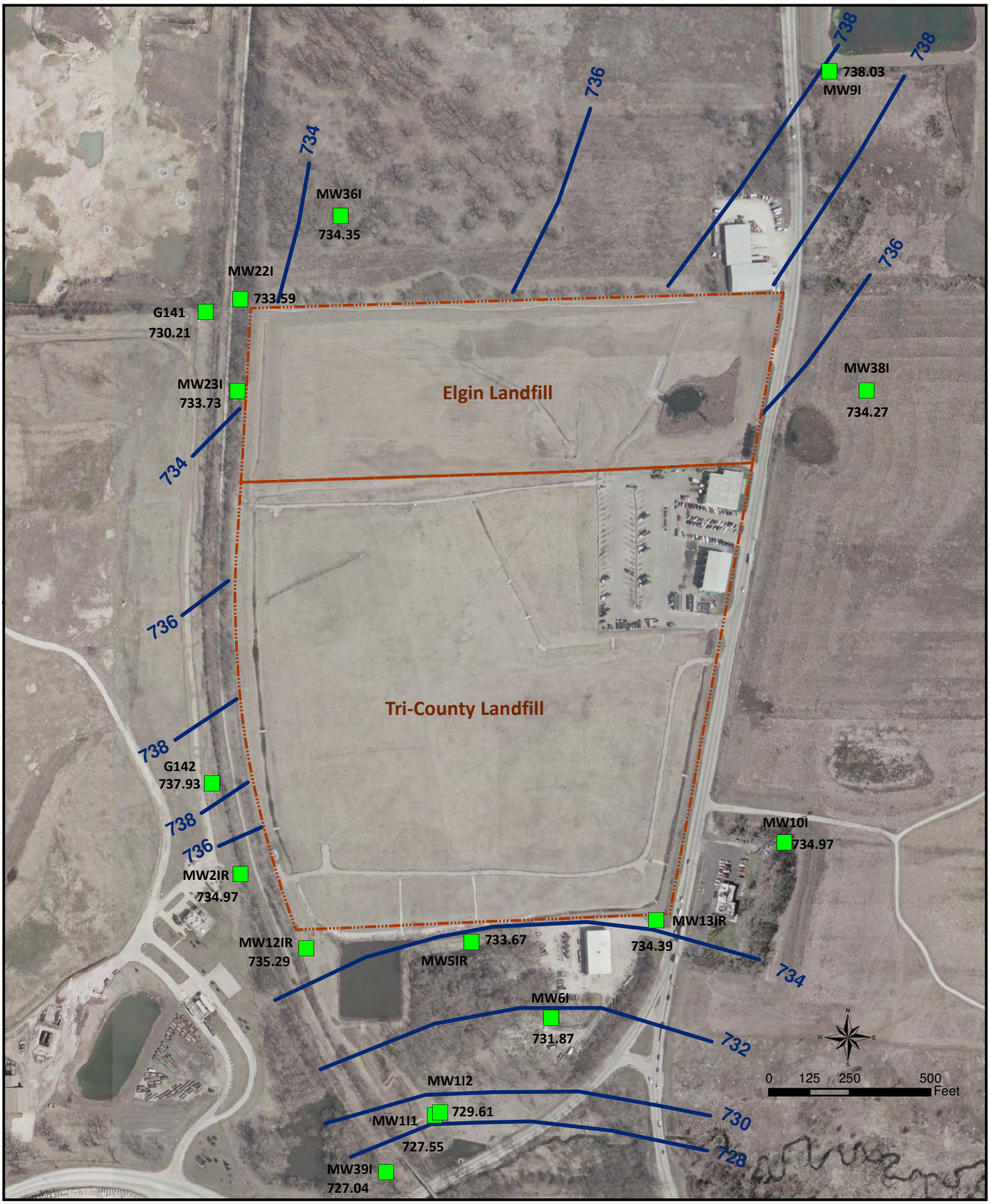
Groundwater Flow
Shallow Unit, June 2011

Tri-County / Elgin Landfills

Town of St. Charles, Kane County, Illinois

SCS BT SQUARED

July 2011



Base image: USGS digital orthophoto, 2005

Legend

G142	Intermediate Hydrostratigraphic Unit
737.93	Well Location, Well Number and Groundwater Elevation
728	Groundwater Contour and Elevation (dashed where inferred)
	Property Boundary

Figure 4

Groundwater Flow
Intermediate Unit, June 2011

Tri-County / Elgin Landfills

Town of St. Charles, Kane County, Illinois

SCS BT SQUARED

July 2011

APPENDIX A

Quarterly Monitoring Logs – Tri-County Landfill
Gas Control System

MONTHLY MONITORING LOG
TRI-COUNTY LANDFILL
LANDFILL GAS CONTROL SYSTEM

Date: 3/24/11

Time: Start 10:00 End 15:00 Temp (°F) & Time: 28°F

Barometric Pressure (in. Hg): 29.31" Hg (GEM) Trend: F S R (circle one)

General Landfill Cap/Vegetation Conditions: Minor snow cover, fairly firm.

Recent Precipitation: Lt. rain/snow flurries yesterday

Monitored By: S. Smith, BT Squared

Gas Detector Make and Model No.: Landtec GEM2000 Serial No: GM07178

Date Meter Last Calibrated: Field calibrated 3/24/11: CH_4 = 50.0%, CO_2 = 35.0%, O_2 = 20.9%

Well ID	Header Pressure (in H_20)	Well Head Pressure (in. H_2O)	Differential Pressure (in. H_2O)	Gas Flow (cfm)	CH_4 (%)	CO_2 (%)	0_2 (%)	Bal (%)	Valve Settings[1] (%) Open Old	Valve Settings[1] (%) Open New	Water Level[2]	Integrity (OK?)
GW01	-6.1	-0.2	-5.771	0	0.0	0.1	20.8	79.1	Closed	→	28.03	✓
GW02	-5.5	-5.5	+0.236	2	0.3	5.8	13.8	80.0	4/11	Closed	28.75	✓
GW03	-3.0	0.0	-4.579	0	0.2	14.2	8.1	77.5	2/11	Closed	29.43	✓
GW04	-4.1	-4.1	-0.259	0	1.2	15.4	6.7	76.8	4/11	2/11	31.37	✓
GW05	-0.8	-0.6	-0.294	0	4.6	20.8	2.5	72.1	100%	2/19	30.70 ~~DT~~	✓
GW06	-2.0	-2.7	+0.008	1	0.0	11.9	10.1	77.8	3/11	Closed	28.10	✓
GW22	-1.1	-1.1	+0.014	2	52.0	23.9	1.8	22.4	100%	→	46.03	✓
GW23	-1.0	-1.0	-0.040	0	12.3	10.8	9.4	67.6	100%	→	37.40	✓
GW24	-0.8	-0.8	+0.110	1	8.1	17.8	0.3	73.8	100%	→	21.75	✓
GW25	-0.8	-0.7	-0.181	0	16.2	12.0	8.2	63.7	100%	→	26.45	✓
GW26	-2.0	0.0	-0.834	0	18.2	13.1	8.0	64.1	100%	→	25.10	✓
GW27	-1.4	-1.2	+0.292	2	0.1	0.2	20.3	79.5	Closed ~~100%~~	→	19.3	✓
GW28	-7.5	-7.2	+1.402	4	29.5	26.2	0.0	44.6	100%	→	25.55	✓
GW29	-4.0	-3.9	-4.450	0	10.1	18.8	3.3	67.9	100%	→	27.07	✓
GW30	-8.0	0.0	-8.923	0	0.1	0.2	20.3	79.5	0/11	Closed	24.60	✓
GW31	-3.8	-3.6	-0.542	0	5.8	13.0	8.4	72.8	100%	→	22.35	✓
GW32	-10.0	-9.9	+0.161	1	1.1	15.0	9.2	74.6	6/11	Closed	22.48	✓

Monthly Monitoring Form
Tri-County Landfill

Date: 3/24/11

Well ID	Header Pressure (in H_2O)	Well Head Pressure (in. H_2O)	Differential Pressure (in. H_2O)	Gas Flow (cfm)	CH_4 (%)	CO_2 (%)	O_2 (%)	Bal (%)	Valve Settings[1] (%) Open Old	Valve Settings[1] (%) Open New	Water Level[2]	Integrity (OK?)
GW33	-3.4	-3.3	-2.628	0	11.1	24.1	0.0	64.8	100%	→	44.30	✓
GW34	-1.2	-1.0	-3.614	0	33.1	30.4	0.0	36.3	100%	→	42.95	✓
GW35	-1.0	-0.8	-1.631 ~~-0.1~~	0	30.4	26.8	0.0	42.7	100	→	42.47	✓
GW40	-2.8	-2.7	+0.062	2	50.6	24.1	0.7	24.6	100%	→	47.18	✓
GW41	-1.2 ~~-0.8~~	-1.0 ~~-0.7~~	+0.195	4	22.2	16.2	3.3	58.5	100%	→	—	✓
GW42	-1.2	-1.2	+0.113	6	12.1	11.0	9.7	67.1	100%	→	34.35	✓
GW43	-1.0	-0.3	-0.572	0	22.1	15.8	3.6	58.5	100%	→	40.75	✓
GW44	-5.0	-5.0	-3.143	0	39.0	29.9	0.0	31.1	100%	→	45.90	✓

Gas Extraction Trench	Header Pressure (in H_2O)	Trench Pressure (in H_2O)	Differential Pressure (in H_2O)	Gas Flow (cfm)	CH_4 (%)	CO_2 (%)	O_2 (%)	Bal (%)	Valve Settings[1] (%) Open Old	Valve Settings[1] (%) Open New	Integrity (OK?)
GT01	-1.0	-0.9	-0.054	0	13.9	18.2	1.4	66.5	100%	→	✓
GT02	-0.8	-0.5	-0.515	0	1.8	9.6	10.6	78.0	100%	2/11	✓
GT03	-1.0	-1.0	-0.180	0	1.3	4.9	16.6	77.3	100%	2/11	✓

Blower	Temp (°F)	Static Pressure (in H_2O)	Differential Pressure (in H_2O)	Gas Flow (cfm)	CH_4 (%)	CO_2 (%)	O_2 (%)	Bal (%)	Valve Settings[1] (%) Open Old	Valve Settings[1] (%) Open New	Integrity (OK?)
Blower In	44	-13.2	n/a	n/a	27.2	24.6	1.6	46.8	5/14	→	✓
Blower Out	n/a	+4.8 ~~+5.2~~	+0.705	3 (4)	26.6	24.1	1.6	47.5	n/a	n/a	✓

Hours: 6702.8.0

Footnotes:

(1) Valve setting represents total "% open" based on the valve handle rotations open of 11 total possible rotations.
(2) Depth to water (measured quarterly).
(3) Gas flow estimates based on prior measurements

Comments: (4) Flow of 3350 fpm by magnehelic gauge.

Pilot Temp. = 1218 °F

Blower Amps = 6.94

Tri-County Landfill

Gas Probe Monitoring Data

Instrument/Serial Number: GEM 2000

Last Calibration Date: field calibrated 3/24/11

Sampling Date: 3/24/11

Monitored by: S. Smith, BT Squared

Barometric pressure (inches Hg) & Trend:

	HWY 25 Black Jacks GP-01	ARC Disposal South Fence GP-02	Southwest Gate GP-03	Waste West Parking Lot GP-08
Methane (CH_4)	0.1	1.5	0.1	0.0
Carbon Dioxide (CO_2)	0.2	3.2	0.2	0.2
Oxygen (O_2)	19.8	19.1	19.8	20.3
Pressure/Vacuum (inches water)	+0.20	-0.70	-0.11 ~~-0.01~~	-0.01

MONTHLY MONITORING LOG
TRI-COUNTY LANDFILL
LANDFILL GAS CONTROL SYSTEM

Date: 6/24/11

Time: Start 09:40 End 13:00 Temp (°F) & Time: 62°F @ 09:30

Barometric Pressure (in. Hg): 29.29" Hg Trend: F S R (circle one)

General Landfill Cap/Vegetation Conditions: Heavy grass weed growth. Taller than the gas heads

Recent Precipitation: None

Monitored By: S. Smith, BT Squared Inc.

Gas Detector Make and Model No.: Landtec GEM2000 Serial No: GM07178

Date Meter Last Calibrated: 6/24/11: CH_4 = 50.0%, CO_2 = 35.0%, O_2 = 20.9%

Well ID	Header Pressure (in H_20)	Well Head Pressure (in. H_2O)	Differential Pressure (in. H_2O)	Gas Flow (cfm)	CH_4 (%)	CO_2 (%)	0_2 (%)	Bal (%)	Valve Settings[1] (%) Open Old	Valve Settings[1] (%) Open New	Water Level[2]	Integrity (OK?)
GW01	-0.2	-0.2	-0.031	0	0.0	0.1	20.5	79.4	0%	→	28.20	✓
GW02	0.0	-0.1	-0.043	0	2.9	7.8	12.6	76.7	0%	→	28.65	✓
GW03	-0.2	-0.2	-0.078	0	0.0	8.6	11.7	79.7	0%	→	29.35	✓
GW04	-0.3	-0.3	-0.020	0	3.1	21.9	1.4	73.5	3/9	→	30.90	✓
GW05	0.0	-0.2	-0.112	0	14.0	21.3	0.2	64.4	0%	4/9	30.70	✓
GW06	0.0	-0.1	+0.033	1	0.1	0.1	20.8	78.5	0%	→	28.20	✓
GW22	-0.1	-0.1	-0.017	0	52.8	22.5	2.1	23.5	100%	→	45.89	✓
GW23	-0.1	-0.1	+0.225	4	27.8	16.0	3.1	53.1	100%	→	37.03	✓
GW24	0.0	-0.1	-0.003	0	29.5	17.2	4.2	48.2	100%	→	18.20	✓
GW25	-0.1	-0.2	-0.007	0	28.8	18.4	1.1	52.7	100	→	22.50	✓
GW26	~~-0.1~~	-0.1	-0.010	0	24.6	15.6	3.7	56.2	100%	→	24.50	✓
GW27	0.0	-0.1	-0.005	0	38.9	21.2	2.8	36.2	100%	→	18.40	✓
GW28	0.0	0.0	-0.003	0	0.8	0.7	20.4	78.2	100%	→	24.80	✓
GW29	0.0	-0.1	-0.007	0	0.0	0.0	20.8	79.1	100%	→	27.05	✓
GW30	0.0	-0.2	-0.018	0	0.0	0.0	20.8	79.0	100%	→	22.41	✓
GW31	0.0	-0.2	-0.031	0	0.0	0.1	20.8	79.1	100%	→	22.20	✓
GW32	-0.1	-0.2	-0.008	0	0.6	0.8	19.9	79.2	0%	→	22.20	✓

Monthly Monitoring Form
Tri-County Landfill

Date: 6/29/11

Well ID	Header Pressure (in H_20)	Well Head Pressure (in. H_2O)	Differential Pressure (in. H_2O)	Gas Flow (cfm)	CH_4 (%)	CO_2 (%)	0_2 (%)	Bal (%)	Valve Settings[1] (%) Open Old	Valve Settings[1] (%) Open New	Water Level[2]	Integrity (OK?)
GW33	-0.2	-0.2	-0.013	0	22.0	16.9	5.4	55.5	100%	→	43.15	✓
GW34	-0.1	-0.2	-0.031	0	34.8	26.1	0.8	38.3	100%	→	43.40	✓
GW35	-1.7	-1.8	+0.079	3	36.1	25.9	0.6	38.5	100%	→	42.85	✓
GW40	-1.7	-1.9	+0.082	3	58.3	25.3	0.8	15.6	100%	→	47.15	✓
GW41	0.0	-0.1	-0.005	0	27.9	18.0	1.4	53.1	100	→	—	✓
GW42	-0.3	-0.4	-0.010	0	26.8	16.8	3.7	52.8	100%	→	33.40	✓
GW43	0.0	-0.01	-0.003	0	28.0	18.2	1.3	52.5	100%	→	40.05	✓
GW44	0.0	-0.02	-0.007	0	4.6	4.6	16.3	74.5	100%	→	46.15	✓

Gas Extraction Trench	Header Pressure (in H_20)	Trench Pressure (in H_20)	Differential Pressure (in H_20)	Gas Flow (cfm)	CH_4 (%)	CO_2 (%)	0_2 (%)	Bal (%)	Valve Settings[1] (%) Open Old	Valve Settings[1] (%) Open New	Integrity (OK?)
GT01	-0.3	-0.3	-0.029	0	30.4	24.2	1.1	44.2	100%	→	✓
GT02	0.0	-0.2	-0.210	0	28.6	24.9	0.1	46.5	2/9	100%	✓
GT03	-0.02	-0.3	-0.140	0	19.8	14.1	0.0	66.0	3/9	100%	✓

Blower	Temp (°F)	Static Pressure (in H_2O)	Differential Pressure (in H_20)	Gas Flow (cfm)	CH_4 (%)	CO_2 (%)	0_2 (%)	Bal (%)	Valve Settings[1] (%) Open Old	Valve Settings[1] (%) Open New	Integrity (OK?)
Blower In	100	0.0	n/a	n/a	20.5	14.5	9.6	55.4	6/	→	✓
Blower Out	n/a	0.0	-0.002	0	6.0	4.0	17.9	72.5	n/a	n/a	✓

Hours: 68163.6

Footnotes:

(1) Valve setting represents total "% open" based on the valve handle rotations open of 11 total possible rotations.
(2) Depth to water (measured quarterly).
(3) Gas flow estimates based on prior measurements

Comments: _____

Tri-County Landfill

Gas Probe Monitoring Data

Instrument/Serial Number: GEM 2000

Last Calibration Date: Field calibrated 6/29/11

Sampling Date: 6/29/11

Monitored by: S. Smith

Barometric pressure (inches Hg) & Trend: 29.25" (F)

	HWY 25 Black Jacks GP-01	ARC Disposal South Fence GP-02	Southwest Gate GP-03	Waste West Parking Lot GP-08
Methane (CH_4)	0.4	39.7	0.0	0.0
Carbon Dioxide (CO_2)	0.4	19.8	0.8	7.1
Oxygen (O_2)	20.0	1.6	20.2	11.8
Pressure/Vacuum (inches water)	+0.03	+0.05	-0.01	+0.01

MONTHLY MONITORING LOG
TRI-COUNTY LANDFILL
LANDFILL GAS CONTROL SYSTEM

Date: 9/19/11

Time: Start 11:15 End 14:00 Temp (°F) & Time: ~60°F

Barometric Pressure (in. Hg): 29.15" Hg (by GEM) Trend: (F) S R (circle one)

General Landfill Cap/Vegetation Conditions: Damp from recent rain

Recent Precipitation: Yes — this morning

Monitored By: S. Smith

Gas Detector Make and Model No.: GEM2000 Serial No: GM07178

Date Meter Last Calibrated: Field calibrated 9/19/11: CH_4 = 50.0%, CO_2 = 35.0%, O_2 = 20.9%

Well ID	Header Pressure (in H_2O)	Well Head Pressure (in. H_2O)	Differential Pressure (in. H_2O)	Gas Flow (cfm)	CH_4 (%)	CO_2 (%)	O_2 (%)	Bal (%)	Valve Settings[1] (%) Open Old	Valve Settings[1] (%) Open New	Water Level[2]	Integrity (OK?)
GW01	0.0	-1.7	-1.620	0	30.0	27.3	0.1	42.6	Closed	100%	28.22	✓
GW02	0.0	-1.7	-1.671	0	35.6	30.4	0.1	33.7	Closed	100%	28.55	✓
GW03	0.0	-1.5	-1.663	0	28.0	24.4	0.1	48.2	Closed	100%	29.25	✓
GW04	-0.9	-0.9	+0.947	3	38.9	27.2	0.1	53.7	2/9	100%	30.81	✓
GW05	-0.5	-0.7	-1.021	0	47.6	28.3	0.4	23.6	4/9	100%	31.30	✓
GW06	0.0	-1.0	-1.019	0	0.4	0.1	20.8	78.6	Closed	→	32.60	✓
GW22	0.0	0.0	-0.016	0	70.6	28.1	0.1 ~~0.0~~	1.1 ~~0~~	100%	→	46.20	✓
GW23	0.0	0.0	+0.006	1	66.2	29.9	0.0	4.0	100%	→	37.15	✓
GW24	-0.4	-0.4	+0.064	2	41.1 ~~40.9~~	18.9 ~~19.1~~	5.1 ~~4.2~~	35.1 ~~36.6~~	100%	→	18.75	✓
GW25	-0.2	-0.2	-0.051	0	65.0	27.9	0.0	4.1	100%	→	22.85	✓
GW26	-0.2	-1.0	+0.058	2	54.5	29.3	4.1	16.8	100%	→	25.42	✓
GW27	-0.2	-0.4	+0.050	1	53.8	26.6	0.8	18.9	100%	→	19.70	✓
GW28	-3.7	-3.7	+0.476	0	54.4	33.3	0.2	11.9	100%	→	23.20	✓
GW29	-0.9	-1.73	-3.005	0	47.7	33.1	0.3	18.4	100%	→	27.15	Hole broken
GW30	-0.1	-2.0	-1.993	0	0.4	0.3	20.6	78.4	6/9	→ ~~50~~	23.70	Stuck shutoff valve
GW31	-2.3	-2.4	+0.304	2	44.4	27.5	0.3	27.5	100%	→	23.58	✓
GW32	-0.1	-3.2	-3.365	0	31.5	25.7	0.2	42.4	Closed	100%	23.50	✓

Monthly Monitoring Form
Tri-County Landfill

Date: 9/19/19

Well ID	Header Pressure (in H_20)	Well Head Pressure (in. H_2O)	Differential Pressure (in. H_2O)	Gas Flow (cfm)	CH_4 (%)	CO_2 (%)	0_2 (%)	Bal (%)	Valve Settings[1] (%) Open Old	New	Water Level[2]	Integrity (OK?)
GW33	-1.4	-1.4	-0.976	0	44.4	27.6	0.2	27.3	100%	→	43.80	✓
GW34	-0.6	-0.8	-1.416	0	58.7	32.8	0.1	8.4	100%	→	44.92 ~~[illegible]~~	✓
GW35	-1.0	-1.0	—	—	58.5	27.7	0.7	12.0	100%	→	43.10	well head part damaged
GW40	-0.9 ~~0.0~~	-1.0 ~~0.0~~	+0.008 ~~-0.003~~	1 ~~0~~	64.4 ~~60.0~~	27.3 ~~30.9~~	0.9 ~~0.5~~	7.4 ~~8.1~~	100% ~~100%~~	→ ~~→~~	47.20 ~~33.44~~	NO - cover of hose
GW41	-0.1	-0.6	+0.050	2	59.3	28.7	0.7	11.4	100%	→	—	✓
GW42	0.0	0.0	-0.005	0	60.0	30.9	0.5	8.1	100%	→	33.44	✓
GW43	-0.1	-1.3	+0.081	3	63.5 ~~62.~~	30.5	0.2	5.6	100%	→	39.68	✓
GW44	-2.6	-2.6	-1.827	0	55.9	32.1	0.0	11.9	100%	→	46.60	✓

Gas Extraction Trench	Header Pressure (in H_20)	Trench Pressure (in H_20)	Differential Pressure (in H_20)	Gas Flow (cfm)	CH_4 (%)	CO_2 (%)	0_2 (%)	Bal (%)	Valve Settings[1] (%) Open Old	New	Integrity (OK?)
GT01	0.0	0.0	-0.013	0	67.1	32.6	0.2	0.0	100%	→	✓
GT02	0.0	0.0	-0.021	0	66.8	31.0	0.0	1.8	100%	→	✓
GT03	0.0	0.0	0.0	0	64.6	30.6	0.0	4.7	100%	→	✓

Blower	Temp (°F)	Static Pressure (in H_2O)	Differential Pressure (in H_20)	Gas Flow (cfm)	CH_4 (%)	CO_2 (%)	0_2 (%)	Bal (%)	Valve Settings[1] (%) Open Old	New	Integrity (OK?)
Blower In	-8.1	-8.1	n/a	n/a	47.1	28.0	2.5	22.5	6/	→	✓
Blower Out	n/a	+5.0	+1.392 ~~+5~~	16	47.1	28.2	1.8	22.5	n/a	n/a	✓

Hours: 68923.6

Footnotes:

(1) Valve setting represents total "% open" based on the valve handle rotations open of 11 total possible rotations.
(2) Depth to water (measured quarterly).
(3) Gas flow estimates based on prior measurements

Comments: Inlet Temp at blower = 70°F

Pilot Temp: 1487°F Blower Amps = 6.3

Tri-County Landfill

Gas Probe Monitoring Data

Instrument/Serial Number: GEM 2000

Last Calibration Date: Field calibrated 9/19/11

Sampling Date: 9/19/11

Monitored by: S. Smith

Barometric pressure (inches Hg) & Trend: 29.15" Hg (↓)

	HWY 25 Black Jacks GP-01	ARC Disposal South Fence GP-02	Southwest Gate GP-03	Waste West Parking Lot GP-08
Methane (CH_4)	0.6	61.0	0.0	0.4
Carbon Dioxide (CO_2)	0.6	28.6	1.1	7.3
Oxygen (O_2)	19.4	0.0	19.9	12.2
Pressure/Vacuum (inches water)	-0.3	-0.2	-0.4	0.0

MONTHLY MONITORING LOG
TRI-COUNTY LANDFILL
LANDFILL GAS CONTROL SYSTEM

Date: 12/28/11

Time: Start 08:45 End 12:15 Temp (°F) & Time: 24°F @ 08:45

Barometric Pressure (in. Hg): 29.22" Hg Trend: (F) S R (circle one)

General Landfill Cap/Vegetation Conditions: Great shape, dry, no snow cover

Recent Precipitation: None

Monitored By: S. Smith

Gas Detector Make and Model No.: Landtec GEM2000 Serial No: GM07178

Date Meter Last Calibrated: 12/28/11 : CH_4 = 50.0%, CO_2 = 35.0%, O_2 = 20.9%

Well ID	Header Pressure (in H_2O)	Well Head Pressure (in. H_2O)	Differential Pressure (in. H_2O)	Gas Flow (cfm)	CH_4 (%)	CO_2 (%)	O_2 (%)	Bal (%)	Valve Settings[1] (%) Open Old	Valve Settings[1] (%) Open New	Water Level[2]	Integrity (OK?)
GW01	~~-4.7~~ ~~0.0~~	~~-4.8~~ ~~0.0~~	~~+0.390~~ ~~0.036~~	~~0~~ 2	41.8	28.5	0.6	28.0	100%	→	28.22	✓
GW02	-4.2	-4.3	+0.250	2	41.7	25.5	2.0	29.6	100%	→	28.60	✓
GW03	-0.5	-1.3	-3.104	0	52.8	29.4	0.0	17.7	100%	→	29.25	✓
GW04	-3.7	-3.7	+0.264	2	60.5	31.0	0.0	8.4	100%	→	29.80	✓
GW05	-1.0	-1.1	-2.202	0	59.0	31.4	0.0	9.5	100%	→	31.60	✓
GW06	-0.2	-1.0	-1.509	0	0.4	0.3	20.7	78.2	0	→	32.35	✓
GW22	0.0	-0.2	-0.158	0	56.5	27.3	0.5	15.7	100	→	37.30	✓
GW23	-0.2	-0.9	-0.009	0	59.8	29.1	0.4	10.7	100%	→	37.15	✓
GW24	0.0	-0.3	-0.101	0	0.3	0.4	19.7	79.5	100%	0	25.60	✓
GW25	0.0	-0.2	-0.059	0	63.6	29.4	0.0	7.0	100%	→	25.50	✓
GW26	-0.2	-0.4	-0.013	0	25.0	13.0	11.3	50.6	100%	→	25.25	✓
GW27	0.0	-0.1	-0.101	0	30.2	17.1	7.8	44.9	100%	→	19.25	✓
GW28	-7.6	-7.7	-1.035	0	55.7	33.2	0.0	11.1	100	→	24.96	✓
GW29	-2.7	-3.0	-6.444	0	50.6	33.4	0.0	16.0	100	→	25.05	Hose broken
GW30	-0.3	-0.4	-4.118	0	0.2	0.3	20.0	79.4	0	→	24.10	✓
GW31	-9.3	-9.3	-1.549	0	44.1	28.6	0.4	26.8	100	→	24.15	✓
GW32	-12.0	-12.0	+0.363	5	36.6	21.5	5.6	36.2	100	→	24.25	✓

Monthly Monitoring Form
Tri-County Landfill

Date: 12/28/11

Well ID	Header Pressure (in H_2O)	Well Head Pressure (in. H_2O)	Differential Pressure (in. H_2O)	Gas Flow (cfm)	CH_4 (%)	CO_2 (%)	O_2 (%)	Bal (%)	Valve Settings[1] (%) Open Old	Valve Settings[1] (%) Open New	Water Level[2]	Integrity (OK?)
GW33	-2.6	-2.7	-2.702	0	50.7	29.4	0.3	19.7	100%	→	42.80	✓
GW34	-0.4	-0.8	-4.040	0	58.4	33.3	0.0	8.2	100	→	43.89	✓
GW35	0.0	-0.4	-0.010	0	24.6	15.7	2.7	53.8	100%	→	42.65	✓
GW40	-2.9	-3.0	+0.175	2	7.7	10.3	8.7	73.2	100%	4/9	47.20	crack in hose
GW41	0.0	-0.4	-0.010	0	56.2	27.3	1.5	15.8	100	→	—	✓
GW42	0.0	-0.2	-0.009	0	20.6	13.2	9.9	56.2	100	→	33.50	✓
GW43	-0.8	-1.0	-0.801	0	29.2	15.5	9.7	45.5	100	→	39.73	✓
GW44	-4.1	-4.2	+0.160	2	60.1	33.0	0.0	6.7	100	→	46.54	✓

Gas Extraction Trench	Header Pressure (in H_2O)	Trench Pressure (in H_2O)	Differential Pressure (in H_2O)	Gas Flow (cfm)	CH_4 (%)	CO_2 (%)	O_2 (%)	Bal (%)	Valve Settings[1] (%) Open Old	Valve Settings[1] (%) Open New	Integrity (OK?)
GT01	0.0	0.0	-0.219	0	67.4	25.6	0.0	3.9	100	→	✓
GT02	-0.2	-0.3	+0.577	3	63.4	29.8	0.0	6.8	100	→	✓
GT03	0.0	0.0	-0.049	0	56.7	29.0	0.2	13.9	100%	→	✓

Blower	Temp (°F)	Static Pressure (in H_2O)	Differential Pressure (in H_2O)	Gas Flow (cfm)	CH_4 (%)	CO_2 (%)	O_2 (%)	Bal (%)	Valve Settings[1] (%) Open Old	Valve Settings[1] (%) Open New	Integrity (OK?)
Blower In	47	-16.7	n/a	n/a	0.3	0.2	19.8	79.6	6/11	→	✓
Blower Out	n/a	+8.6	+1.319	4300 fpm (4)	48.5	28.2	1.9	21.2	n/a	n/a	✓

Hours: 69607.1

Footnotes:

(1) Valve setting represents total "% open" based on the valve handle rotations open of 11 total possible rotations.
(2) Depth to water (measured quarterly).
(3) Gas flow estimates based on prior measurements

Comments: Inlet temp at blower = 47°F R'ld Temp = 1172°F

Blower Amps = 8.93

(4) Flow taken by magnetic gauge (4" inlet to flare)

Tri-County Landfill

Gas Probe Monitoring Data

Instrument/Serial Number: GEM 2000

Last Calibration Date: Field calibrated 12/28/11

Sampling Date: 12/28/11

Monitored by: S. Smith

Barometric pressure (inches Hg) & Trend: 29.22" Hg ↓

	HWY 25 Black Jacks GP-01	ARC Disposal South Fence GP-02	Southwest Gate GP-03	Waste West Parking Lot GP-08
Methane (CH_4)	0.2	47.2	0.0	0.2
Carbon Dioxide (CO_2)	0.6	23.7	0.8	8.0
Oxygen (O_2)	19.5	4.0	20.0	11.7
Pressure/Vacuum (inches water)	0.0	0.0	-0.2	0.0

APPENDIX B

Landfill Gas Analysis – Tri-County/Elgin Landfills

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Los Angeles
3585 Cadillac Avenue, Suite A
Costa Mesa, CA 92626
Tel: 714-258-8610

TestAmerica Job ID: LUI0157
Client Project/Site: [none]
Client Project Description: KY05 Tri-County Landfill

For:
Waste Management Germantown
W132 N10487 Grant Drive
Germantown, WI 53022

Attn: Mike Peterson

Authorized for release by:
09/28/2011 04:59:55 PM

Marisol Tabirara
Project Manager
sonia.tabirara@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

Results relate only to the items tested and the sample(s) as received by the laboratory. The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

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Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
DL, RA, RE, IN	Indicates a Dilution, Reanalysis, Re-extraction, or additional Initial metals/anion analysis of the sample
EDL	Estimated Detection Limit
EPA	United States Environmental Protection Agency
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
RL	Reporting Limit
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Job ID: LUI0157

Laboratory: TestAmerica Los Angeles

Narrative

Sample for method 25C have been corrected for nitrogen. STP conditions are used in this calculation. Sample for EPA 25C is analyzed in triplicate and 3C sample is run in duplicate. EPA 3C/25C results summary forms are available.

Detection Summary

Client: Waste Management Germantown
Project/Site: [none]

TestAmerica Job ID: LUI0157

Client Sample ID: LANDFILL GAS

Lab Sample ID: LUI0157-01

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Acetone	300		170		ppbv	17		EPA TO15 Modifie	Total
Benzene	650		66		ppbv	17		EPA TO15 Modifie	Total
2-Butanone (MEK)	370		170		ppbv	17		EPA TO15 Modifie	Total
Chlorobenzene	160		66		ppbv	17		EPA TO15 Modifie	Total
Chloroethane	550		66		ppbv	17		EPA TO15 Modifie	Total
1,4-Dichlorobenzene	87		66		ppbv	17		EPA TO15 Modifie	Total
Dichlorodifluoromethane	930		66		ppbv	17		EPA TO15 Modifie	Total
cis-1,2-Dichloroethene	230		66		ppbv	17		EPA TO15 Modifie	Total
1,2-Dichloro-1,1,2,2-tetrafluoroethane	320		66		ppbv	17		EPA TO15 Modifie	Total
Ethylbenzene	1200		66		ppbv	17		EPA TO15 Modifie	Total
4-Ethyltoluene	230		66		ppbv	17		EPA TO15 Modifie	Total
Toluene	1200		66		ppbv	17		EPA TO15 Modifie	Total
1,2,4-Trimethylbenzene	290		83		ppbv	17		EPA TO15 Modifie	Total
1,3,5-Trimethylbenzene	130		66		ppbv	17		EPA TO15 Modifie	Total
Vinyl chloride	670		66		ppbv	17		EPA TO15 Modifie	Total
m,p-Xylene	3900		66		ppbv	17		EPA TO15 Modifie	Total
o-Xylene	690		66		ppbv	17		EPA TO15 Modifie	Total
Xylenes, total	4600		66		ppbv	17		EPA TO15 Modifie	Total
Hydrogen sulfide	3.5		2.0		ppmv	10		EPA 15/16	Total
TNMOC as Methane	1200		100		ppm-C	3.3		EPA 25C	Total
Carbon dioxide	27		0.033		%(v/v)	3.3		EPA 3C	Total
Methane	48		0.00066		%(v/v)	3.3		EPA 3C	Total
Nitrogen	23		3.3		%(v/v)	3.3		EPA 3C	Total
Oxygen	2.3		0.66		%(v/v)	3.3		EPA 3C	Total

Client Sample Results

Client: Waste Management Germantown
Project/Site: [none]

TestAmerica Job ID: LUI0157

Client Sample ID: LANDFILL GAS

Lab Sample ID: LUI0157-01

Date Collected: 09/19/11 15:05
Matrix: Air
Date Received: 09/20/11 10:15
Sample Container: Passivated Canister

Method: EPA TO15 Modified - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Acetone	**300**		170		ppbv		09/21/11 10:36	09/21/11 23:34	17
Benzene	**650**		66		ppbv		09/21/11 10:36	09/21/11 23:34	17
Benzyl chloride	ND		170		ppbv		09/21/11 10:36	09/21/11 23:34	17
Bromodichloromethane	ND		66		ppbv		09/21/11 10:36	09/21/11 23:34	17
Bromoform	ND		66		ppbv		09/21/11 10:36	09/21/11 23:34	17
Bromomethane	ND		66		ppbv		09/21/11 10:36	09/21/11 23:34	17
2-Butanone (MEK)	**370**		170		ppbv		09/21/11 10:36	09/21/11 23:34	17
Carbon disulfide	ND		170		ppbv		09/21/11 10:36	09/21/11 23:34	17
Carbon tetrachloride	ND		170		ppbv		09/21/11 10:36	09/21/11 23:34	17
Chlorobenzene	**160**		66		ppbv		09/21/11 10:36	09/21/11 23:34	17
Dibromochloromethane	ND		66		ppbv		09/21/11 10:36	09/21/11 23:34	17
Chloroethane	**550**		66		ppbv		09/21/11 10:36	09/21/11 23:34	17
Chloroform	ND		66		ppbv		09/21/11 10:36	09/21/11 23:34	17
Chloromethane	ND		66		ppbv		09/21/11 10:36	09/21/11 23:34	17
1,2-Dibromoethane (EDB)	ND		66		ppbv		09/21/11 10:36	09/21/11 23:34	17
1,2-Dichlorobenzene	ND		66		ppbv		09/21/11 10:36	09/21/11 23:34	17
1,3-Dichlorobenzene	ND		66		ppbv		09/21/11 10:36	09/21/11 23:34	17
1,4-Dichlorobenzene	**87**		66		ppbv		09/21/11 10:36	09/21/11 23:34	17
Dichlorodifluoromethane	**930**		66		ppbv		09/21/11 10:36	09/21/11 23:34	17
1,1-Dichloroethane	ND		66		ppbv		09/21/11 10:36	09/21/11 23:34	17
1,2-Dichloroethane	ND		66		ppbv		09/21/11 10:36	09/21/11 23:34	17
cis-1,2-Dichloroethene	**230**		66		ppbv		09/21/11 10:36	09/21/11 23:34	17
trans-1,2-Dichloroethene	ND		66		ppbv		09/21/11 10:36	09/21/11 23:34	17
1,1-Dichloroethene	ND		66		ppbv		09/21/11 10:36	09/21/11 23:34	17
1,2-Dichloropropane	ND		83		ppbv		09/21/11 10:36	09/21/11 23:34	17
cis-1,3-Dichloropropene	ND		83		ppbv		09/21/11 10:36	09/21/11 23:34	17
trans-1,3-Dichloropropene	ND		170		ppbv		09/21/11 10:36	09/21/11 23:34	17
1,2-Dichloro-1,1,2,2-tetrafluoroethane	**320**		66		ppbv		09/21/11 10:36	09/21/11 23:34	17
Ethylbenzene	**1200**		66		ppbv		09/21/11 10:36	09/21/11 23:34	17
4-Ethyltoluene	**230**		66		ppbv		09/21/11 10:36	09/21/11 23:34	17
Hexachlorobutadiene	ND		66		ppbv		09/21/11 10:36	09/21/11 23:34	17
2-Hexanone	ND		170		ppbv		09/21/11 10:36	09/21/11 23:34	17
Methylene chloride	ND		66		ppbv		09/21/11 10:36	09/21/11 23:34	17
4-Methyl-2-pentanone (MIBK)	ND		170		ppbv		09/21/11 10:36	09/21/11 23:34	17
Styrene	ND		66		ppbv		09/21/11 10:36	09/21/11 23:34	17
1,1,2,2-Tetrachloroethane	ND		66		ppbv		09/21/11 10:36	09/21/11 23:34	17
Tetrachloroethene	ND		66		ppbv		09/21/11 10:36	09/21/11 23:34	17
Toluene	**1200**		66		ppbv		09/21/11 10:36	09/21/11 23:34	17
1,2,4-Trichlorobenzene	ND		83		ppbv		09/21/11 10:36	09/21/11 23:34	17
1,1,1-Trichloroethane	ND		66		ppbv		09/21/11 10:36	09/21/11 23:34	17
1,1,2-Trichloroethane	ND		66		ppbv		09/21/11 10:36	09/21/11 23:34	17
Trichloroethene	ND		66		ppbv		09/21/11 10:36	09/21/11 23:34	17
Trichlorofluoromethane	ND		66		ppbv		09/21/11 10:36	09/21/11 23:34	17
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		66		ppbv		09/21/11 10:36	09/21/11 23:34	17
1,2,4-Trimethylbenzene	**290**		83		ppbv		09/21/11 10:36	09/21/11 23:34	17
1,3,5-Trimethylbenzene	**130**		66		ppbv		09/21/11 10:36	09/21/11 23:34	17
Vinyl acetate	ND		170		ppbv		09/21/11 10:36	09/21/11 23:34	17
Vinyl chloride	**670**		66		ppbv		09/21/11 10:36	09/21/11 23:34	17
m,p-Xylene	**3900**		66		ppbv		09/21/11 10:36	09/21/11 23:34	17

Client Sample Results

Client: Waste Management Germantown
Project/Site: [none]

TestAmerica Job ID: LUI0157

Client Sample ID: LANDFILL GAS

Lab Sample ID: LUI0157-01

Date Collected: 09/19/11 15:05
Date Received: 09/20/11 10:15
Sample Container: Passivated Canister

Matrix: Air

Method: EPA TO15 Modified - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	690		66		ppbv		09/21/11 10:36	09/21/11 23:34	17
Xylenes, total	4600		66		ppbv		09/21/11 10:36	09/21/11 23:34	17

Client Sample Results

Client: Waste Management Germantown
Project/Site: [none]

TestAmerica Job ID: LUI0157

Client Sample ID: LANDFILL GAS

Lab Sample ID: LUI0157-01

Date Collected: 09/19/11 15:05
Matrix: Air
Date Received: 09/20/11 10:15
Sample Container: Tedlar Bag 1L

Method: EPA 15/16 - Sulfur Compounds

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Hydrogen sulfide	3.5		2.0		ppmv		09/20/11 10:15	09/20/11 14:06	10

Client Sample Results

Client: Waste Management Germantown
Project/Site: [none]

TestAmerica Job ID: LUI0157

Client Sample ID: LANDFILL GAS

Lab Sample ID: LUI0157-01

Date Collected: 09/19/11 15:05
Matrix: Air
Date Received: 09/20/11 10:15
Sample Container: Passivated Canister

Method: EPA 25C - Total Nonmethane Organic Compounds

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
TNMOC as Methane	1200		100		ppm-C		09/20/11 10:15	09/26/11 14:22	3.3

Client Sample Results

Client: Waste Management Germantown
Project/Site: [none]

TestAmerica Job ID: LUI0157

Client Sample ID: LANDFILL GAS

Lab Sample ID: LUI0157-01

Date Collected: 09/19/11 15:05
Matrix: Air
Date Received: 09/20/11 10:15
Sample Container: Passivated Canister

Method: EPA 3C - Fixed Gases

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Carbon dioxide	27		0.033		%(v/v)		09/20/11 10:15	09/26/11 14:22	3.3
Methane	48		0.00066		%(v/v)		09/20/11 10:15	09/26/11 14:22	3.3
Nitrogen	23		3.3		%(v/v)		09/20/11 10:15	09/26/11 14:22	3.3
Oxygen	2.3		0.66		%(v/v)		09/20/11 10:15	09/26/11 14:22	3.3

Method: EPA TO15 Modified - Volatile Organic Compounds by GC/MS

Lab Sample ID: 11I0121-BLK1
Matrix: Air
Analysis Batch: 11I0121

Client Sample ID: Method Blank
Prep Type: Total
Prep Batch: 11I0121_P

Analyte	Blank Result	Blank Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		10		ppbv		09/21/11 10:36	09/21/11 14:32	1.00
Benzene	ND		4.0		ppbv		09/21/11 10:36	09/21/11 14:32	1.00
Benzyl chloride	ND		10		ppbv		09/21/11 10:36	09/21/11 14:32	1.00
Bromodichloromethane	ND		4.0		ppbv		09/21/11 10:36	09/21/11 14:32	1.00
Bromoform	ND		4.0		ppbv		09/21/11 10:36	09/21/11 14:32	1.00
Bromomethane	ND		4.0		ppbv		09/21/11 10:36	09/21/11 14:32	1.00
2-Butanone (MEK)	ND		10		ppbv		09/21/11 10:36	09/21/11 14:32	1.00
Carbon disulfide	ND		10		ppbv		09/21/11 10:36	09/21/11 14:32	1.00
Carbon tetrachloride	ND		10		ppbv		09/21/11 10:36	09/21/11 14:32	1.00
Chlorobenzene	ND		4.0		ppbv		09/21/11 10:36	09/21/11 14:32	1.00
Dibromochloromethane	ND		4.0		ppbv		09/21/11 10:36	09/21/11 14:32	1.00
Chloroethane	ND		4.0		ppbv		09/21/11 10:36	09/21/11 14:32	1.00
Chloroform	ND		4.0		ppbv		09/21/11 10:36	09/21/11 14:32	1.00
Chloromethane	ND		4.0		ppbv		09/21/11 10:36	09/21/11 14:32	1.00
1,2-Dibromoethane (EDB)	ND		4.0		ppbv		09/21/11 10:36	09/21/11 14:32	1.00
1,2-Dichlorobenzene	ND		4.0		ppbv		09/21/11 10:36	09/21/11 14:32	1.00
1,3-Dichlorobenzene	ND		4.0		ppbv		09/21/11 10:36	09/21/11 14:32	1.00
1,4-Dichlorobenzene	ND		4.0		ppbv		09/21/11 10:36	09/21/11 14:32	1.00
Dichlorodifluoromethane	ND		4.0		ppbv		09/21/11 10:36	09/21/11 14:32	1.00
1,1-Dichloroethane	ND		4.0		ppbv		09/21/11 10:36	09/21/11 14:32	1.00
1,2-Dichloroethane	ND		4.0		ppbv		09/21/11 10:36	09/21/11 14:32	1.00
cis-1,2-Dichloroethene	ND		4.0		ppbv		09/21/11 10:36	09/21/11 14:32	1.00
trans-1,2-Dichloroethene	ND		4.0		ppbv		09/21/11 10:36	09/21/11 14:32	1.00
1,1-Dichloroethene	ND		4.0		ppbv		09/21/11 10:36	09/21/11 14:32	1.00
1,2-Dichloropropane	ND		5.0		ppbv		09/21/11 10:36	09/21/11 14:32	1.00
cis-1,3-Dichloropropene	ND		5.0		ppbv		09/21/11 10:36	09/21/11 14:32	1.00
trans-1,3-Dichloropropene	ND		10		ppbv		09/21/11 10:36	09/21/11 14:32	1.00
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		4.0		ppbv		09/21/11 10:36	09/21/11 14:32	1.00
Ethylbenzene	ND		4.0		ppbv		09/21/11 10:36	09/21/11 14:32	1.00
4-Ethyltoluene	ND		4.0		ppbv		09/21/11 10:36	09/21/11 14:32	1.00
Hexachlorobutadiene	ND		4.0		ppbv		09/21/11 10:36	09/21/11 14:32	1.00
2-Hexanone	ND		10		ppbv		09/21/11 10:36	09/21/11 14:32	1.00
Methylene chloride	ND		4.0		ppbv		09/21/11 10:36	09/21/11 14:32	1.00
4-Methyl-2-pentanone (MIBK)	ND		10		ppbv		09/21/11 10:36	09/21/11 14:32	1.00
Styrene	ND		4.0		ppbv		09/21/11 10:36	09/21/11 14:32	1.00
1,1,2,2-Tetrachloroethane	ND		4.0		ppbv		09/21/11 10:36	09/21/11 14:32	1.00
Tetrachloroethene	ND		4.0		ppbv		09/21/11 10:36	09/21/11 14:32	1.00
Toluene	ND		4.0		ppbv		09/21/11 10:36	09/21/11 14:32	1.00
1,2,4-Trichlorobenzene	ND		5.0		ppbv		09/21/11 10:36	09/21/11 14:32	1.00
1,1,1-Trichloroethane	ND		4.0		ppbv		09/21/11 10:36	09/21/11 14:32	1.00
1,1,2-Trichloroethane	ND		4.0		ppbv		09/21/11 10:36	09/21/11 14:32	1.00
Trichloroethene	ND		4.0		ppbv		09/21/11 10:36	09/21/11 14:32	1.00
Trichlorofluoromethane	ND		4.0		ppbv		09/21/11 10:36	09/21/11 14:32	1.00
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		4.0		ppbv		09/21/11 10:36	09/21/11 14:32	1.00
1,2,4-Trimethylbenzene	ND		5.0		ppbv		09/21/11 10:36	09/21/11 14:32	1.00
1,3,5-Trimethylbenzene	ND		4.0		ppbv		09/21/11 10:36	09/21/11 14:32	1.00
Vinyl acetate	ND		10		ppbv		09/21/11 10:36	09/21/11 14:32	1.00
Vinyl chloride	ND		4.0		ppbv		09/21/11 10:36	09/21/11 14:32	1.00
m,p-Xylene	ND		4.0		ppbv		09/21/11 10:36	09/21/11 14:32	1.00

Method: EPA TO15 Modified - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 11I0121-BLK1 — **Client Sample ID: Method Blank**
Matrix: Air — **Prep Type: Total**
Analysis Batch: 11I0121 — **Prep Batch: 11I0121_P**

Analyte	Blank Result	Blank Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	ND		4.0	ppbv		09/21/11 10:36	09/21/11 14:32	1.00
Xylenes, total	ND		4.0	ppbv		09/21/11 10:36	09/21/11 14:32	1.00

Lab Sample ID: 11I0121-BS1 — **Client Sample ID: Lab Control Sample**
Matrix: Air — **Prep Type: Total**
Analysis Batch: 11I0121 — **Prep Batch: 11I0121_P**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
Chloroform	50.00	51.9		ppbv		104	70 - 130
1,2-Dichlorobenzene	50.00	55.5		ppbv		111	70 - 130
1,3-Dichlorobenzene	50.00	58.5		ppbv		117	70 - 130
Dichlorodifluoromethane	50.00	50.6		ppbv		101	70 - 130
1,1-Dichloroethane	50.00	50.1		ppbv		100	70 - 130
1,2-Dichloroethane	50.00	56.9		ppbv		114	70 - 130
trans-1,2-Dichloroethene	52.50	57.7		ppbv		110	70 - 130
1,2-Dichloropropane	50.00	54.7		ppbv		109	70 - 130
1,2-Dichloro-1,1,2,2-tetrafluoroethane	50.00	50.4		ppbv		101	70 - 130
Hexachlorobutadiene	46.00	47.9		ppbv		104	70 - 130
Methylene chloride	53.50	56.5		ppbv		106	70 - 130
Styrene	50.00	51.8		ppbv		104	70 - 130
Tetrachloroethene	50.00	52.3		ppbv		105	70 - 130
Toluene	52.50	53.5		ppbv		102	70 - 130
1,1,1-Trichloroethane	50.00	53.7		ppbv		107	70 - 130
1,2,4-Trimethylbenzene	50.00	57.1		ppbv		114	70 - 130

Lab Sample ID: 11I0121-BSD1 — **Client Sample ID: Lab Control Sample Dup**
Matrix: Air — **Prep Type: Total**
Analysis Batch: 11I0121 — **Prep Batch: 11I0121_P**

Analyte	Spike Added	LCS Dup Result	LCS Dup Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
Chloroform	50.00	53.7		ppbv		107	70 - 130	4	25
1,2-Dichlorobenzene	50.00	57.8		ppbv		116	70 - 130	4	25
1,3-Dichlorobenzene	50.00	58.9		ppbv		118	70 - 130	0.6	25
Dichlorodifluoromethane	50.00	51.5		ppbv		103	70 - 130	2	25
1,1-Dichloroethane	50.00	54.2		ppbv		108	70 - 130	8	25
1,2-Dichloroethane	50.00	56.4		ppbv		113	70 - 130	0.8	25
trans-1,2-Dichloroethene	52.50	60.9		ppbv		116	70 - 130	5	25
1,2-Dichloropropane	50.00	53.1		ppbv		106	70 - 130	3	25
1,2-Dichloro-1,1,2,2-tetrafluoroethane	50.00	51.8		ppbv		104	70 - 130	3	25
Hexachlorobutadiene	46.00	50.3		ppbv		109	70 - 130	5	25
Methylene chloride	53.50	60.9		ppbv		114	70 - 130	8	25
Styrene	50.00	55.3		ppbv		111	70 - 130	7	25
Tetrachloroethene	50.00	51.6		ppbv		103	70 - 130	1	25
Toluene	52.50	51.2		ppbv		98	70 - 130	4	25
1,1,1-Trichloroethane	50.00	54.8		ppbv		110	70 - 130	2	25
1,2,4-Trimethylbenzene	50.00	55.6		ppbv		111	70 - 130	3	25

QC Sample Results

Client: Waste Management Germantown
Project/Site: [none]

TestAmerica Job ID: LUI0157

Method: EPA 15/16 - Sulfur Compounds

Lab Sample ID: 11I0104-BLK1 — **Client Sample ID: Method Blank**
Matrix: Air — **Prep Type: Total**
Analysis Batch: 11I0104 — **Prep Batch: 11I0104_P**

Analyte	Blank Result	Blank Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Hydrogen sulfide	ND		0.20		ppmv		09/20/11 12:00	09/20/11 13:25	1.00

Lab Sample ID: 11I0104-BS1 — **Client Sample ID: Lab Control Sample**
Matrix: Air — **Prep Type: Total**
Analysis Batch: 11I0104 — **Prep Batch: 11I0104_P**

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits		
Hydrogen sulfide			0.9735	0.688		ppmv		71	61 - 134		

Lab Sample ID: 11I0104-BSD1 — **Client Sample ID: Lab Control Sample Dup**
Matrix: Air — **Prep Type: Total**
Analysis Batch: 11I0104 — **Prep Batch: 11I0104_P**

Analyte			Spike Added	LCS Dup Result	LCS Dup Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
Hydrogen sulfide			0.9735	0.836		ppmv		86	61 - 134	19	20

Method: EPA 25C - Total Nonmethane Organic Compounds

Lab Sample ID: 11I0142-BLK1 — **Client Sample ID: Method Blank**
Matrix: Air — **Prep Type: Total**
Analysis Batch: 11I0142 — **Prep Batch: 11I0142_P**

Analyte	Blank Result	Blank Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
TNMOC as Methane	ND		30		ppm-C		09/26/11 07:00	09/26/11 11:07	1.00

Lab Sample ID: 11I0142-BS2 — **Client Sample ID: Lab Control Sample**
Matrix: Air — **Prep Type: Total**
Analysis Batch: 11I0142 — **Prep Batch: 11I0142_P**

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits		
TNMOC as Methane			240.0	234		ppm-C		98	80 - 120		

Lab Sample ID: 11I0142-BSD2 — **Client Sample ID: Lab Control Sample Dup**
Matrix: Air — **Prep Type: Total**
Analysis Batch: 11I0142 — **Prep Batch: 11I0142_P**

Analyte			Spike Added	LCS Dup Result	LCS Dup Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
TNMOC as Methane			240.0	234		ppm-C		98	80 - 120	0.02	20

Method: EPA 3C - Fixed Gases

Lab Sample ID: 11I0142-BLK1 — **Client Sample ID: Method Blank**
Matrix: Air — **Prep Type: Total**
Analysis Batch: 11I0142 — **Prep Batch: 11I0142_P**

Analyte	Blank Result	Blank Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Carbon dioxide	ND		0.010		%(v/v)		09/26/11 07:00	09/26/11 11:07	1.00
Methane	ND		0.00020		%(v/v)		09/26/11 07:00	09/26/11 11:07	1.00
Nitrogen	ND		1.0		%(v/v)		09/26/11 07:00	09/26/11 11:07	1.00
Oxygen	ND		0.20		%(v/v)		09/26/11 07:00	09/26/11 11:07	1.00

Method: EPA 3C - Fixed Gases (Continued)

Lab Sample ID: 11I0142-BS1 — **Client Sample ID: Lab Control Sample**
Matrix: Air — **Prep Type: Total**
Analysis Batch: 11I0142 — **Prep Batch: 11I0142_P**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
Carbon dioxide	0.9980	0.965		%(v/v)		97	75 - 125
Methane	0.05000	0.0539		%(v/v)		108	75 - 135
Nitrogen	19.90	20.7		%(v/v)		104	70 - 130
Oxygen	4.980	5.31		%(v/v)		107	70 - 130

Lab Sample ID: 11I0142-BSD1 — **Client Sample ID: Lab Control Sample Dup**
Matrix: Air — **Prep Type: Total**
Analysis Batch: 11I0142 — **Prep Batch: 11I0142_P**

Analyte	Spike Added	LCS Dup Result	LCS Dup Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
Carbon dioxide	0.9980	0.965		%(v/v)		97	75 - 125	0.01	20
Methane	0.05000	0.0539		%(v/v)		108	75 - 135	0.002	20
Nitrogen	19.90	21.0		%(v/v)		105	70 - 130	1	30
Oxygen	4.980	5.32		%(v/v)		107	70 - 130	0.4	30

QC Association Summary

Client: Waste Management Germantown
Project/Site: [none]

TestAmerica Job ID: LUI0157

GCMS Volatiles

Analysis Batch: 11I0121

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
11I0121-BLK1	Method Blank	Total	Air	EPA TO15 Modified	11I0121_P
11I0121-BS1	Lab Control Sample	Total	Air	EPA TO15 Modified	11I0121_P
11I0121-BSD1	Lab Control Sample Dup	Total	Air	EPA TO15 Modified	11I0121_P
LUI0157-01	LANDFILL GAS	Total	Air	EPA TO15 Modified	11I0121_P

Prep Batch: 11I0121_P

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
11I0121-BLK1	Method Blank	Total	Air	MS-MED	
11I0121-BS1	Lab Control Sample	Total	Air	MS-MED	
11I0121-BSD1	Lab Control Sample Dup	Total	Air	MS-MED	
LUI0157-01	LANDFILL GAS	Total	Air	MS-MED	

GC Volatiles

Analysis Batch: 11I0104

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
11I0104-BLK1	Method Blank	Total	Air	EPA 15/16	11I0104_P
11I0104-BS1	Lab Control Sample	Total	Air	EPA 15/16	11I0104_P
11I0104-BSD1	Lab Control Sample Dup	Total	Air	EPA 15/16	11I0104_P
LUI0157-01	LANDFILL GAS	Total	Air	EPA 15/16	11I0104_P

Analysis Batch: 11I0142

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
11I0142-BLK1	Method Blank	Total	Air	EPA 25C	11I0142_P
11I0142-BLK1	Method Blank	Total	Air	EPA 3C	11I0142_P
11I0142-BS1	Lab Control Sample	Total	Air	EPA 3C	11I0142_P
11I0142-BS2	Lab Control Sample	Total	Air	EPA 25C	11I0142_P
11I0142-BSD1	Lab Control Sample Dup	Total	Air	EPA 3C	11I0142_P
11I0142-BSD2	Lab Control Sample Dup	Total	Air	EPA 25C	11I0142_P
LUI0157-01	LANDFILL GAS	Total	Air	EPA 25C	11I0142_P
LUI0157-01	LANDFILL GAS	Total	Air	EPA 3C	11I0142_P

Prep Batch: 11I0104_P

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
11I0104-BLK1	Method Blank	Total	Air	GC-15/16	
11I0104-BS1	Lab Control Sample	Total	Air	GC-15/16	
11I0104-BSD1	Lab Control Sample Dup	Total	Air	GC-15/16	
LUI0157-01	LANDFILL GAS	Total	Air	GC-15/16	

Prep Batch: 11I0142_P

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
11I0142-BLK1	Method Blank	Total	Air	GC-D1946/3C	
11I0142-BS1	Lab Control Sample	Total	Air	GC-D1946/3C	
11I0142-BS2	Lab Control Sample	Total	Air	GC-D1946/3C	
11I0142-BSD1	Lab Control Sample Dup	Total	Air	GC-D1946/3C	
11I0142-BSD2	Lab Control Sample Dup	Total	Air	GC-D1946/3C	
LUI0157-01	LANDFILL GAS	Total	Air	GC-D1946/3C	

Lab Chronicle

Client: Waste Management Germantown
Project/Site: [none]

TestAmerica Job ID: LUI0157

Client Sample ID: LANDFILL GAS

Lab Sample ID: LUI0157-01

Date Collected: 09/19/11 15:05

Matrix: Air

Date Received: 09/20/11 10:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total	Prep	MS-MED		1.0	11I0121_P	09/21/11 10:36	TD	TAL LA
Total	Analysis	EPA TO15 Modified		17	11I0121	09/21/11 23:34	AD	TAL LA
	Instrument Id:	MSA						
Total	Prep	GC-15/16		1.0	11I0104_P	09/20/11 10:15	YZ	TAL LA
Total	Analysis	EPA 15/16		10	11I0104	09/20/11 14:06	YZ	TAL LA
	Instrument Id:	GC7						
Total	Prep	GC-D1946/3C		1.0	11I0142_P	09/20/11 10:15	EI	TAL LA
Total	Analysis	EPA 25C		3.3	11I0142	09/26/11 14:22	EI	TAL LA
	Instrument Id:	GC8						
Total	Analysis	EPA 3C		3.3	11I0142	09/26/11 14:22	EI	TAL LA
	Instrument Id:	GC8						

Laboratory References:
TAL LA = TestAmerica Los Angeles, 3585 Cadillac Avenue, Suite A, Costa Mesa, CA 92626, TEL 714-258-8610

Certification Summary

Client: Waste Management Germantown
Project/Site: [none]

TestAmerica Job ID: LUI0157

Laboratory	Authority	Program	EPA Region	Certification ID
TestAmerica Los Angeles	Arizona	State Program	9	AZ0727
TestAmerica Los Angeles	Florida	NELAC	4	E87652
TestAmerica Los Angeles	L-A-B	DoD ELAP		L2273
TestAmerica Los Angeles	Louisiana	NELAC	6	01948
TestAmerica Los Angeles	New York	NELAC	2	11851
TestAmerica Los Angeles	Oregon	NELAC	10	CA200013
TestAmerica Los Angeles	Washington	State Program	10	C579

Accreditation may not be offered or required for all methods and analytes reported in this package. Please contact your project manager for the laboratory's current list of certified methods and analytes.

Method Summary

Client: Waste Management Germantown
Project/Site: [none]

TestAmerica Job ID: LUI0157

Method	Method Description	Protocol	Laboratory
EPA TO15 Modified	Volatile Organic Compounds by GC/MS		TAL LA
EPA 15/16	Sulfur Compounds		TAL LA
EPA 25C	Total Nonmethane Organic Compounds		TAL LA
EPA 3C	Fixed Gases		TAL LA

Protocol References:

Laboratory References:

TAL LA = TestAmerica Los Angeles, 3585 Cadillac Avenue, Suite A, Costa Mesa, CA 92626, TEL 714-258-8610

Sample Summary

Client: Waste Management Germantown
Project/Site: [none]

TestAmerica Job ID: LUI0157

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
LUI0157-01	LANDFILL GAS	Air	09/19/11 15:05	09/20/11 10:15

TestAmerica Los Angeles
3585 Cadillac Ave., Suite A
Costa Mesa, CA 92626
Phone 714-258-8610 Fax 714-258-0921

Canister Samples Chain of Custody Record

TestAmerica Laboratories, Inc. assumes no liability with respect to the collection and shipment of these samples.

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Contact Information	**Project Manager:** Mike Pattke	LUI0157	1 of 1 COCs
Company: SCS BT Squared, Inc.	**Phone:** 630-399-1713	**Samples Collected By:** S. Smith	
Address: 2830 Dairy Dr	**Email:**		
City/State/Zip Madison WI 53718			
Phone: 608-224-2830	**Site Contact:** Steven Smith		
FAX: 608-224-2834	**LAB Contact:**		
Project Name: Tri-County Landfill	**Analysis Turnaround Time**		
Site: Elgin, IL	Standard (Specify) 2 wks		
PO #	Rush (Specify) —		

Sample Identification	Sample Date(s)	Time Start	Time Stop	Canister Vacuum in Field, "Hg (Start)	Canister Vacuum in Field, 'Hg (Stop)	Flow Controller ID	Canister ID	TO-15	TO-14A	TO-3	EPA 3C	EPA 25C	ASTM D-1946	Other (Please specify in notes section) EPA 15/16	Sample Type	Indoor Air	Ambient Air	Soil Gas	Landfill Gas	Other (Please specify in notes section)
Landfill Gas	9/19/11	15:05	15:06	-15	-0.5	—	03322	X			X	X		X					X	

Temperature (Fahrenheit)	Interior	Ambient	
Start			
Stop			

Pressure (inches of Hg)	Interior	Ambient	
Start			
Stop			

Special Instructions/QC Requirements & Comments:

Samples Shipped by: [signature]	Date/Time: 9/19/11 16:00	Samples Received by:
Samples Relinquished by:	Date/Time: 9/20/11 1015	Received by: [signature]
Relinquished by:	Date/Time:	Received by:

Lab Use Only **Shipper Name:** **Opened by:** **Condition:**

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

CANISTER FIELD DATA RECORD

CLIENT: WMI
CANISTER SERIAL #: 03322
DATE CLEANED: 082411B
CLIENT SAMPLE #: Landfill Gas
SITE LOCATION: Tri-County Landfill

VFR ID: _____
Duration of comp. : _____ Hrs. / mins.
Flow setting: _____ ml/min
Initials: _____

READING	TIME	Vac. (inches Hg) Or PRESS. (psig)	DATE	INITIALS
INITIAL VACUUM CHECK		7.20 psia	9/2/11	[illegible]
INITIAL FIELD VACUUM	15:00	-15" Hg	9/19/11	SS
FINAL FIELD READING	15:06	-0.5" Hg	9/19/11	SS

PRE-DILUTED WITH HELIUM

LABORATORY CANISTER PRESSURIZATION			
INITIAL VACUUM (PSIA)	14.22	9/20/11	[illegible]
FINAL PRESSURE (PSIA)	23.30	9/20/11	[illegible]

Pressurization Gas: N_2

COMMENTS:

COMPOSITE TIME (HOURS)	FLOW RATE RANGE (ml/min)
15 Min.	316 – 333
30 Min.	158 – 166.7
1	79.2 – 83.3
2	39.6 – 41.7
4	19.8 – 20.8
6	13.2 – 13.9
8	9.9 – 10.4
10	7.92 – 8.3
12	6.6 – 6.9
24	3.5 – 4.0

N:\CONDOCS\TestAmerica DOCs\CANISTER FIELD DATA RECORD(HELIUM)20070712.doc

6

CANISTER QC CERTIFICATION

TestAmerica

Certification Type: TO-15 MOD

Date Cleaned/Batch: A082411 B

Date of QC: 08-29-11

Data File Number: MB08298.D

CANISTER ID NUMBERS

* 03853	04416
12399	04720
92089	A-126
9323BB	✓ 03322
12304	9101B
GL0164	93056

The above canisters were cleaned as a batch. This certifies this batch contains no target analyte concentration greater than or equal to the method criteria for the "*Certification Type*" indicated above.

"*" INDICATES THE CAN OR CANS WHICH WERE SCREENED.

Reviewed By: [signature]

Date: 08 30 11

TestAmerica Los Angeles

AIR LOW LEVEL TO-14A / TO-15

Data file : \\TAILAX106\D\chem\MSE.i\110829.B\MB08298.D
Lab Smp Id: BLANK Client Smp ID: 03853
Inj Date : 29-AUG-2011 21:46
Operator : LY Inst ID: mse.i
Smp Info : BLANK,03853,,SCREEN BLANK
Misc Info : 1,1,500,500,3,,BLANK,TO15ML.SUB,0,
Comment :
Method : \\TAILAX106\D\chem\MSE.i\110829.B\TO15.m
Meth Date : 30-Aug-2011 09:47 yabutl Quant Type: ISTD
Cal Date : 24-AUG-2011 12:57 Cal File: IC08247.D
Als bottle: 6 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: TO15ML.sub
Target Version: 4.14
Processing Host: TAILAX106

Concentration Formula:
Amt * DF * (FinalPres / InitPres)*(CalVol / SmpVol) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
FinalPres	1.000	Final Pressure
InitPres	1.000	Initial Pressure
CalVol	500.000	Calibration Volume
SmpVol	500.000	Sample Volume
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	FINAL (ppbv)
* 46 Bromochloromethane	49	11.722	11.722	(1.000)	26485	4.00000	
$ 55 1,2-Dichloroethane-d4	65	12.503	12.509	(0.955)	26355	4.03687	4.037
* 61 1,4-Difluorobenzene	114	13.086	13.092	(1.000)	54407	4.00000	
$ 71 Toluene-d8	98	15.213	15.213	(0.882)	52387	4.26310	4.263
* 84 Chlorobenzene-d5	117	17.241	17.241	(1.000)	43461	4.00000	
$ 97 4-Bromofluorobenzene	95	18.859	18.865	(1.094)	33873	3.86585	3.866

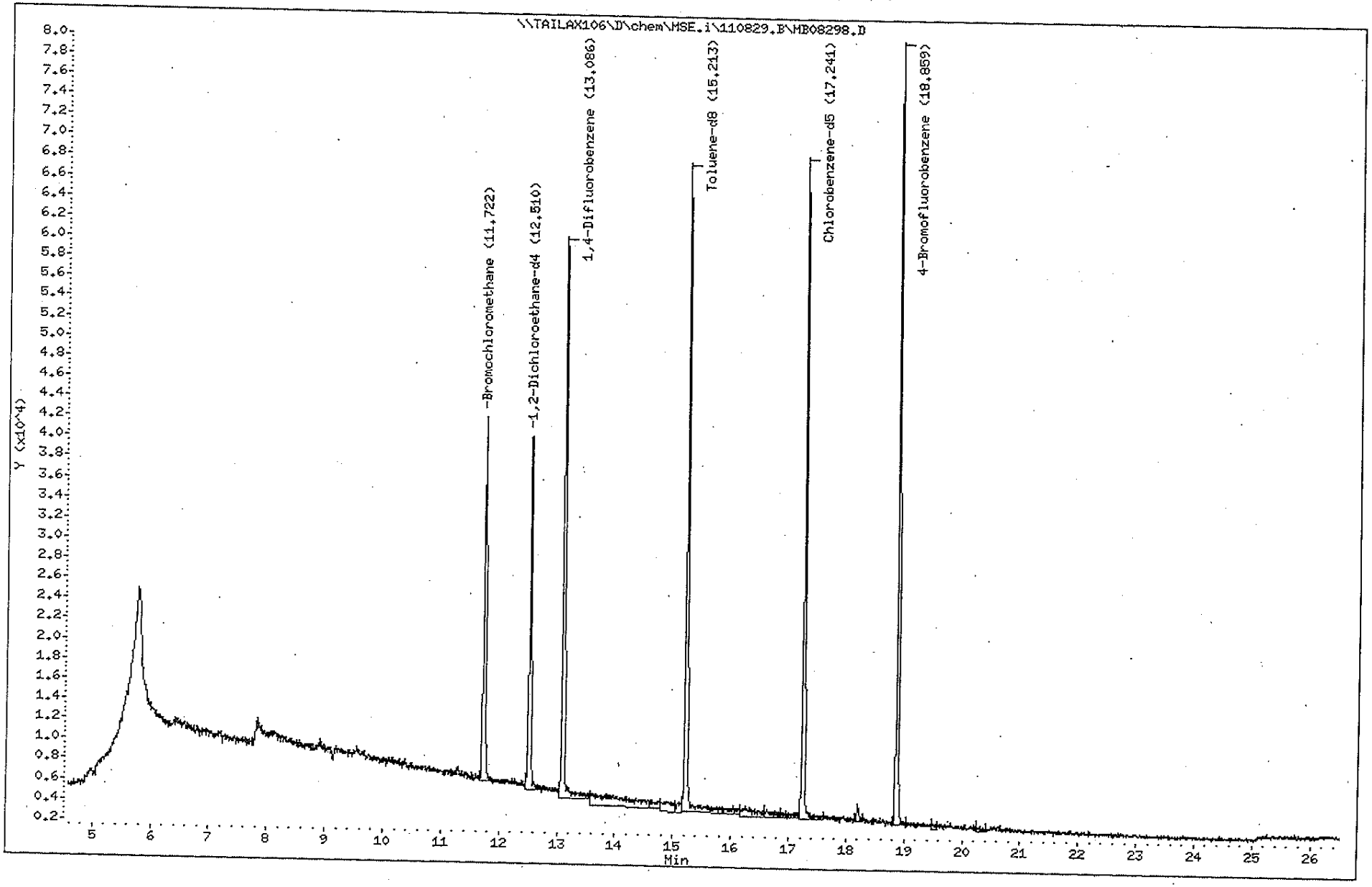
Data File: \\TAILAX106\D\chem\MSE.i\110829.B\MB08298.D
Date : 29-AUG-2011 21:46
Client ID: 03853
Sample Info: BLANK,03853,,SCREEN BLANK

Column phase: J&W DB-5ms

Instrument: mse.i

Operator: LY
Column diameter: 0.32

Page 1



TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

EPA 25C TRIPLICATE RESULTS

Date Analyzed / QC Batch: 09/26/11/110142

GC8 EPA 25C TNMOC SUMMARY REPORT

LAB SAMPLE ID#: LUI0157-01

		Date	Time	Dilution Factor
25C RAW DATA FILES Run 1:	I417-1	09/26/11	14:22	3.3191
Run 2:	I417-2	09/26/11	14:48	3.3191
Run 3:	I417-3	09/26/11	15:15	3.3191

EPA 25C DF: **3.3191** Date: 9/26/2011

	Run 1	Run 2	Run 3	Average			BASE RL's
	Results	Results	Results	Results	RSD=10%		
COMPOUND	ppm-c	ppm-c	ppm-c	ppm-c	%RSD	RL	ppm
TNMOC	1170.76	1170.38	1163.07	1168.0671	0.371	99.6	30

	Results	Results	Results	Results	RSD=15%
	%v/v	%v/v	%v/v	%v/v	%RSD
NITROGEN	22.9573	22.9805	22.9779	22.9719	0.055
NO N2 CORRECTION	45.8807	45.8937	45.8929		

COMMENTS: CANISTER PRE-PRESSURIZED WITH HELIUM 7.2

FINAL PRESSURE 23.30

INITIAL PRESSURE 14.22

SERIAL DILUTION 1.00

TNMOC as CH4	RAW AMOUNT	ADJUSTED TNMOC RESULTS
RUN1	792.976	1170.76
RUN2	792.373	1170.38
RUN3	787.464	1163.07

NOTE: TNMOC RESULTS ADJUSTED PER NITROGEN VALUES AND STP

LEVEL 1 9/27/11 **LEVEL2** 9/27/11

Note: Calculation for Nitrogen last validated by QA on 6-23-2008.

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

EPA 3C DUPLICATE RESULTS

Date Analyzed / QC Batch: 09/26/11/1110142

TESTAMERICA LOS ANGELES

EPA 3C SAMPLE RESULTS SUMMARY CALCULATION

Lot ID: LUI0157-01
Data File(s): i417 -1
Date Acquired: 9/26/2011 14:22 ; 14:48
Dilution Factor: 3.32

Final(F) Lab Pressure: 23.30
Sample(S) Receipt Pressure: 14.22
Prepressurized? (He,NO): He
Lab Pressurized? (N2,NO): N2
Pre-pressure: 7.2
Serial Dilution: 1

Analyte	RUN1 PPM(v/v)	RUN2 PPM(v/v)	RPD (10%)	AVERAGE PPM(v/v)	AVERAGE %v/v	RL %v/v	BASE RL %v/v
Carbon Dioxide:	267269.59	267548.39	0.10	267408.99	26.740899	0.03319	0.01
Oxygen/Argon:	22915	22965	0.22	22940	2.293988	0.66382	0.2
Nitrogen:	229573	229805	0.10	229689	22.968897	3.31909	1
Methane:	484951.99	484812.59	0.03	484882.29	48.488229	0.00066	0.0002
Ethene:	0.00	0.00	#DIV/0!	0.00	0.000000	0.00332	0.001
Ethane:	30.52	29.78	2.44	30.15	0.003015	0.00166	0.0005
Hydrogen	0	0	#DIV/0!	0.00	0.000000	0.06638	0.02
Helium	0	0	#DIV/0!	0.00	0.000000	0.06638	0.02
Carbon Monoxide:	0.00	0.00	#DIV/0!	0.00	0.000000	0.00332	0.001
%Total:	100.474	100.516					

	RUN1 PPM(v/v)	RUN2 PPM(v/v)	RUN1 %(v/v)	RUN2 %(v/v)
Nitrogen File Result:	458867	458937	45.8867	45.8937

LEVEL 1 9/28/11 **LEVEL2** 09/28/11

Note: Calculation for Nitrogen last validated by QA on 6-23-2008.

APPENDIX C

Site Inspection Form – Tri-County Landfill 2011

CLOSED LANDFILL ENVIRONMENTAL INSPECTION FORM

Facility Name: **Tri-County Landfill** Inspection Date: **9/19/11**

Location (physical address, not P.O. Box) **Route 25**

City: **Elgin** State: **Illinois** Zip Code: **60177**

Total Acreage: **46** Filled Acreage: **40**

Owner Status: **Operator/partial owner** Date of Last Inspection: **7/21/10**

Is this facility on the National Priorities List (NPL)? [X] Yes [ ] No [ ] N/A

If yes, date listed on the NPL: **3/31/89**

Weather Conditions during inspection: **Partly Cloudy 65 Deg F; Wind S/SW 5-15 mph**

Next Scheduled Inspection Date: **July 2012**

SECURITY & ACCESS	YES	NO	N/A
1. Is access controlled by perimeter fencing?	X		
2. Are "No Trespassing" signs posted in appropriate languages?	X		
3. Is there evidence of trespassing?		X	
COVER & VEGETATION			
4. Is final cover in acceptable condition? (provide documentation reference in comments section)	X		
5. Is vegetation in acceptable condition (quality & density)?	X		
6. Is the top slope in acceptable condition (good drainage, minimal erosion)?	X		
7. Is the side slope in acceptable condition (good drainage, minimal erosion)?	X		
8. Is there any damage to gas and leachate systems?		X	
9. Is there any exposed waste?		X	
DRAINAGE			
10. Are appropriate runoff controls in place?	X		
11. Are slope cover drains in acceptable conditions?	X		
12. Are perimeter ditches in acceptable condition?	X		
13. Are detention/retention ponds in acceptable condition?	X		
14. Are outlet structures in acceptable condition?	X		
15. Are all point discharges permitted?			X
16. Is there standing water that may develop wetlands?	X		

LEACHATE & GAS CONTROL SYSTEMS	YES	NO	N/A
17. Are the collection manholes secure and in acceptable condition?	X		
18. Is the leachate collection system in acceptable condition?			X
19. Are any storage tanks or ponds in acceptable condition and operated in compliance with requirements?	X		
20. Are the riser and cleanouts secure and in acceptable condition?	X		
21. Are sewer discharge pipes or meters secure and in acceptable condition?			X
22. Are gas flares, vents and gas wells secure and in acceptable condition?	X		
23. Is there odor or gas migration off-site?		X	
24. Are probes/detection systems calibrated and in acceptable working condition?	X		
25. Is an approved Leachate Management Plan being implemented?			X
MONITORING WELLS			
26. Are monitoring wells in acceptable condition?	X		
27. Is documentation of well installation available?	X		
28. Are current groundwater monitoring well inspections filed?	X		
Other Systems			
29. Are the site buildings in acceptable condition?			X
30. Is the oil/grit separator in acceptable condition?	X		
31. Are the site access roads in acceptable condition?	X		

N/A = Not Applicable

Additional Facility Information:

Development on or near the site? (Specify size and type; e.g., residential – 40 acres, well and septic)

Road reconstruction was recently completed on Route 25 along the southeast edge of the site.

Item #	Comment:
1	Perimeter fencing includes the adjacent Elgin Landfill. Access to the hauling company is by a gate off Route 25.
4, 5, & 16	Cap vegetation is healthy. Pavement in the hauling company parking area (i.e. MATCON cap) is in good condition with few visible cracks. See attached photos. The east half of the site, and vegetation along access roads, was mowed this year. Monitor growth of woody vegetation species (i.e. trees) in isolated areas on check dams and edge of MATCON - remove when warranted. Some surface water was present in perimeter ditches, likely due to recent rainfall. Vegetation in perimeter ditches should be mowed if possible, especially along the east and south fencelines, to control undesirable (i.e. wetland and woody) plant species and promote surface water drainage.
8	Verify operation and function of several grey metal boxes (cable pull boxes?) that are located on the cover and appear to have settled. If possible, return the boxes to their original orientation (i.e vertical).
14	Rock lined drainage ways are in good condition. The water level in the south sedimentation pond is low (< 1 foot) and the pond and its outlet are in good condition.
19	Personnel from the Woodland RDF operate the landfill gas collection system. SCS BT Squared personnel were on-site for quarterly monitoring of the LFG system.
22	The blower/flare was not operating upon arrival to the site. It was restarted by personnel from the Woodland RDF. Poor gas quality apparently continues to impact continuous

	operation of the gas collection system at the site.
23	Monitoring at GP-2 typically indicates methane concentrations in excess of 5%. There is no vegetative stress in the area, and no consistent positive pressure associated with the field readings, thus the probe is likely located within or very close to refuse at the site or the adjacent unoccupied ARC disposal property and the measurements are not likely indicative of a significant gas migration concern.
26	Response based on review of Well Condition Inspection Forms completed during the annual 2011 groundwater sampling event at the site.
30	The oil/grit separator appears to be functioning normally. Sorbent booms and washed stone are clean. Sediment loading in nearby ditches is not significant and does not appear to impact operation.
31	The recent repair of a small erosion area beneath the south access road, at a culvert crossing, appears to be holding. The gravel access road is stable and fill placed around the culvert pipe inlet and outlet remains in place.

Inspector: Mike Prattke Date: 9/23/11

SCS BT SQUARED

Tri-County Landfill – Elgin, IL
2011 Annual Site Inspection
Project #25211382.20

Photo 1: View toward northeast of southern area of MATCON cap and hauling company.

Photo 2: View of east area of cap looking southeast along a drainage way.

Photo 3: View of central area of cap looking south from north perimeter. Area to the east is mowed.

Photo 4: View of northern area of cap and access road looking east from northwest corner of site.

Photo 5: View of east edge of cap looking north from near the southeast corner of site.

Photo 6: View of blower/flare station.

APPENDIX D

Quarterly Inspection and Monitoring Logs – Elgin Landfill

Landmarc Environmental Systems, LLC

March 3, 2011
Project No. 0120-137-30.00

Mr. Jim Hitzeroth
Allied Waste North Central Region
Mallard Lake Landfill
26W580 Schick Road
Hanover Park, Illinois 60133

Re: 1 st Quarter Site Inspection 2011
Elgin Landfill
Elgin, Illinois

Dear Mr. Hitzeroth:

Landmarc Environmental Systems, LLC. (Landmarc) is pleased to present the results from the quarterly site inspection conducted on March 3, 2011, at the Elgin Landfill located in Elgin, Illinois.

Attached is the quarterly site inspection observations and results. The gas monitoring was completed at the same time as the site inspection.

We trust this information meets with your requirements in this matter. If you have any questions or require further information, please do not hesitate to contact us.

Sincerely,
Landmarc Environmetal Systems, LLC.

E.E.
Eric Eberle By DES
Engineering Technician

Dan Sawyer
Project Manger

cc: John V. Fagiolo, U.S. EPA

John Fagiolo
Remedial Project Manager
US EPA Region 5 Superfund
77 W. Jackson Blvd.
Chicago, IL 60601

ROUTINE SITE INSPECTION CHECKLIST
ELGIN LANDFILL SUPERFUND SITE
KANE COUNTY, ILLINOIS

INSPECTION DATE: 3/3/2011

Inspector(s) Names: Eric Eberle

Company: Landmarc Environmental Systems, LLC.

Weather Conditions: Cloudy and Warm.

General Site Conditions: Dry, with plenty of vegetation.
(e.g., muddy, dusty, etc.)

Inspection Item
(check when complete)

☒ General Assessment of Perimeter Fencing, Gates, & Locks

Notes: (1) Gate and Access Parking Area -Good.

(2) Perimeter Fencing -- Fair

(3) Signs -Good

(4) All Site Gates, Probes and Sump have Locks in place.

See Photo: 1, 17,19

Overall Condition: ☒ Good ☐ Fair ☐ Poor ☐ Critical Take Immediate Action

☒ Landfill Perimeter East Slope

See Photo: 12,13

Notes: (1) Vegetation Growth remains in good condition

(2) Slope Rock Toe is in good condition.

(3) Small Gullies that were previously observed have not worsened and are well vegetated.

Overall Condition: ☒ Good ☐ Fair ☐ Poor ☐ Critical – Take Immediate Action

☒ Landfill Perimeter West Slope

See Photo:14,15

Notes: (1) Vegetation Growth remains good.

(2) Slope, West Ditch, and the area along the fence is well vegetated.

(3) Good vegetation is established. The ditch unblocked.

Overall Condition: ☒ Good ☐ Fair ☐ Poor ☐ Critical – Take Immediate Action

☒ Landfill Perimeter South Slope

See Photo: 18

Notes: (1) Vegetation growth good

Overall Condition: ☒ Good ☐ Fair ☐ Poor ☐ Critical – Take Immediate Action

Inspection Item (check when complete)				
☒ Upper Storm water Pond Notes: (1) Water in pond at drain level. (2) Vegetation remains strong . 3) Upper pond East and West slopes are vegetated and stable.				See Photo: 6, 8,
Overall Condition:	☒Good	☐ Fair	☐ Poor	☐ Critical – Take Immediate Action
☒ Lower Storm water Pond and Discharge Notes: (1) There is Good vegetation growth around the wetland and pond area. Vegetation on the drainage ditches for the pond appears stable. (2) Water in pond at drain level. (3) The Riprap at the inlet channels appear to be in good condition. (4) The Discharge pipe and Rt. 25 Box culvert is unblocked.				See Photos: 9,10
Overall Condition:	☒Good	☐ Fair	☐ Poor	☐ Critical – Take Immediate Action
☒ Landfill Top Surfaces and Drainage Swales Notes: (1)Vegetation growth is stable. (2) No significant erosion noted. (3) No signs of damage, vandalism, or unauthorized entry at the Landfill.		☐ OTHER (4) Condensate Knockout/Lift Station. (5) Gas Extraction Well.		See Photos: 1-19
Overall Condition:	☒Good	☐ Fair	☐ Poor	☐ Critical – Take Immediate Action

GAS SYSTEM INSPECTION CHECKLIST
ELGIN LANDFILL SUPERFUND SITE
KANE COUNTY, ILLINOIS

INSPECTION TYPE: (Circle) (Quarterly)/Monthly **INSPECTION DATE:** 3/3/2011

Inspector(s) Names: Eric Eberle

Company: Landmarc Environmental Systems, LLC.

Weather Conditions: Cloudy and Warm.

General Site Conditions: Dry, with plenty of vegetation.
(e.g., muddy, dusty, etc.)

Inspection Item
(check when complete)

☑ Condensate Knock-Out/Lift Station (KSE01)

Notes:

(1) Condensate Level: _____ ft.

(2) Condensate Volume: _____ ft^3

(3) Valves: Air - Open Y/N Y
Discharge - Open Y/N Y
Isolation - Open Y/N Y

(4) Air Pressure Reading: 41 psi

(5) Electrical: Meter OK Y/N Y
Outlet Power OK Y/N Y
Heat Tracing OK Y/N Y

(6) Pump: Manual On/(Off) Check OK Y/N Y

(7) Pump Cycle Reading Reset to 0

(8) Other See "Other Notes" _____

Overall Condition: ☑ Good ☐ Fair ☐ Poor ☐ Critical – Take Immediate Action

☑ Monitoring Control Stations

	MCE01	MCE02
% Methane	34.4	0
% Oxygen	2.9	19.5
% Carbon Dioxide	18.9	0.2

MCE01 (Southeast Tie-in)
Valves: 2-in Air - Open Y/N Y
2-in Discharge - Open Y/N Y
6-in Gas Header - Valve Setting Open
Other: _____

MCE02 (Southwest Tie-in)
Valve:
6-in Gas Header - Valve Setting Open
Other: _____

Overall Condition: ☑ Good ☐ Fair ☐ Poor ☐ Critical – Take Immediate Action

☑ East LFG Well System (GWE 01 thru GWE13) Remember Close Sample Ports and Reattach Hoses.

Activity	GWE01	GWE02	GWE03	GWE04	GWE05	GWE06	GWE07	GWE08	GWE09	GWE10	GWE11	GWE12	GWE13	GWE14
Well Pressure	0.2	0.3	0.1	0.1	0.0	0.2	0.2	0.2	0.1	0.2	0.4	0.5	0.3	0.3
Header Pressure	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.2	-0.3	0.2	0.2	0.3
Differential Press.	0.002	-0.005	-0.004	-0.004	-0.005	-0.008	-0.001	-0.004	-0.003	-0.013	-1.215	-0.005	-0.036	-0.005
LFG Temperature	45	47	47	49	48	47	47	51	51	47	49	46	47	48
LFG Flow	0	0	0	0	0	0	0	0	0	0	0	0	0	0
% Methane	49.4	31.1	0.7	38.9	20.7	36.2	22.8	39.5	11.2	28.5	36.2	41.4	30.6	40.9
% Oxygen	0.0	0.0	0.0	0.0	0	0	0.0	0.0	0	0.7	0.1	0	0.5	0
% Carbon Dioxide	23.8	19.8	12.5	18.7	18.3	14.9	14.2	16.5	15.1	11.8	19.8	17.7	15.1	11.9
Valve Setting			Closed						Closed	Closed	Closed			
Other														
Other														

Overall Condition: ☑ Good ☐ Fair ☐ Poor ☐ Critical – Take Immediate Action

Other Notes:

GAS SYSTEM INSPECTION CHECKLIST
ELGIN LANDFILL SUPERFUND SITE
KANE COUNTY, ILLINOIS

INSPECTION TYPE: (Circle) (Quarterly)/Monthly

INSPECTION DATE: 3/3/2011

Inspection Item
(check when complete)

☑ East LFG Extraction Well System (GWE 14 thru GWE19) Remember Close Sample Ports and Reattach Hoses.

Activity	GWE15	GWE16	GWE17	GWE18	GWE19
Well Static Pressure	0.5	0.4	0.2	0.2	0.3
Header Static Pressure	0.2	0.3	0.3	0.3	0.3
Differential Pressure	-1.314	-1.16	-1.153	-1.432	-0.196
LFG Temperature	49	49	50	50	52
LFG Flow	0	0	0	0	0
% Methane	38.1	10.6	19.3	30.9	20.1
% Oxygen	0.1	0.0	0.1	0.0	2.1
% Carbon Dioxide	17.5	11.5	16	12.7	21.6
Valve Setting					
Other					
Other					

Overall Condition: ☑ Good ☐ Fair ☐ Poor ☐ Critical – Take Immediate Action

☑ Cleanouts Located at LFG Wells GWE14, GWE19, and Three (3) Cleanouts Near KSE01.

Notes:

Overall Condition: ☑ Good ☐ Fair ☐ Poor ☐ Critical – Take Immediate Action

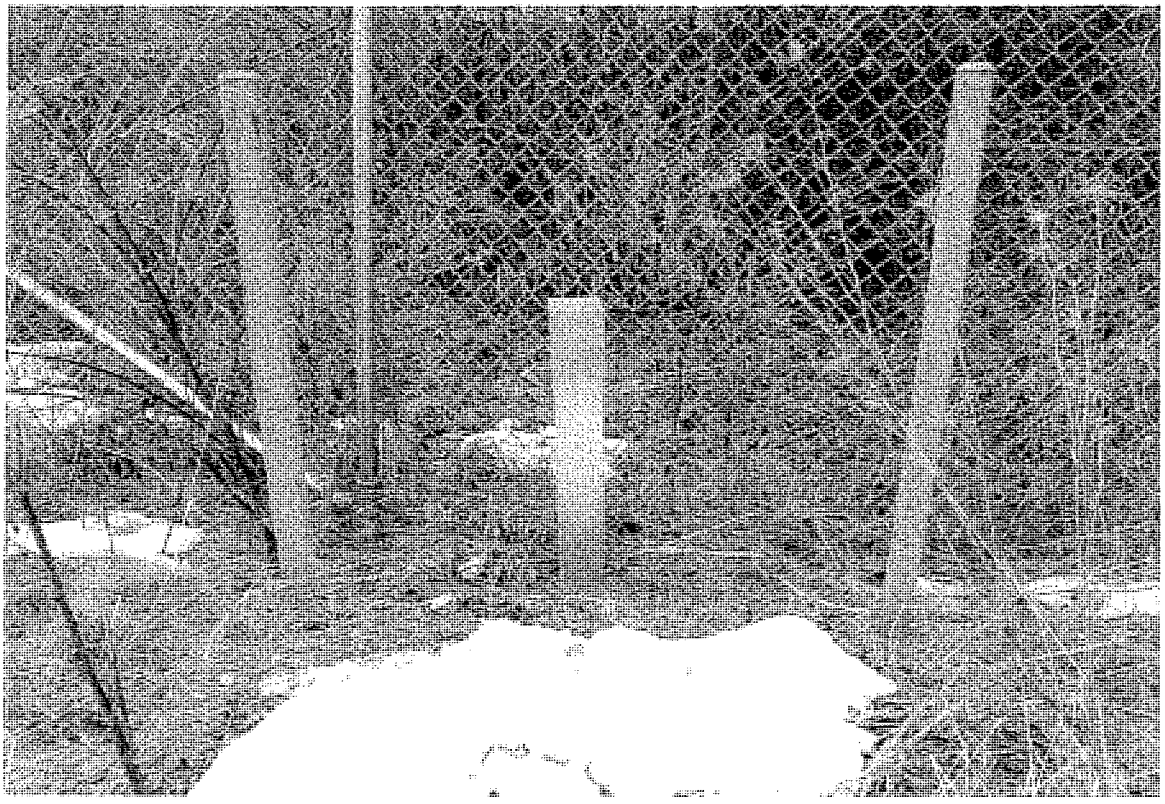
☑ LFG Probes, GPE01 Thru GPE05

Gas Monitoring: Y/N Y

Activity	GPE01	GPE02	GPE03	GPE04	GPE05
Probe Static Pressure	0.0	0.0	0.0	0.0	0.0
% Methane	0.0	0.0	0.0	0.0	0.0
Condition OK (Y)/N (Casing, Cap, Lock)	Y	Y	Y	Y	Y
Other					

Notes:

Overall Condition: ☑ Good ☐ Fair ☐ Poor ☐ Critical – Take Immediate Action



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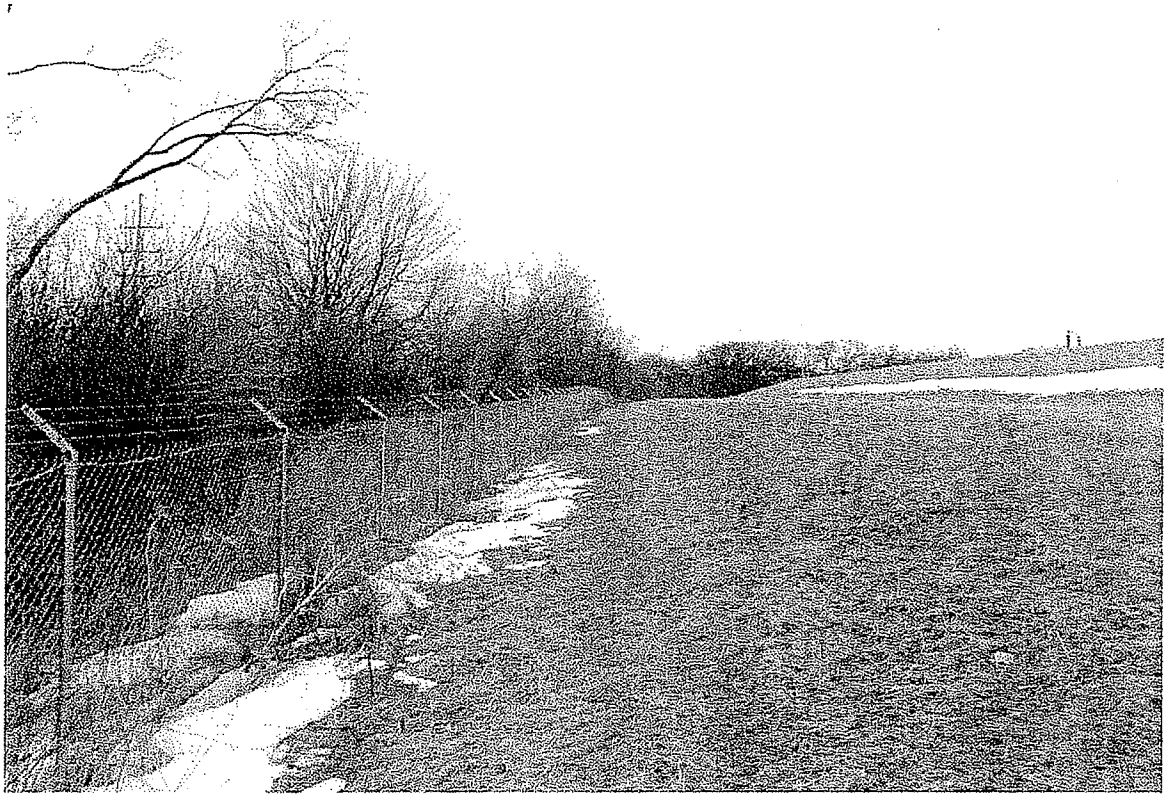
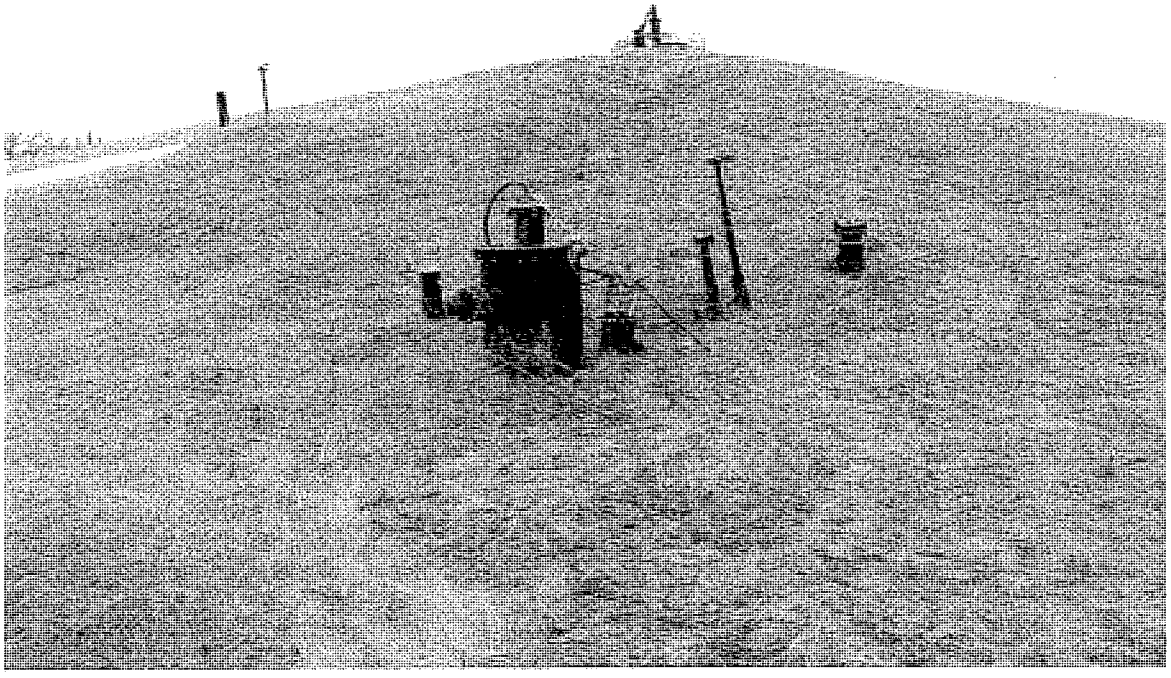


Photograph 2

Photograph 3



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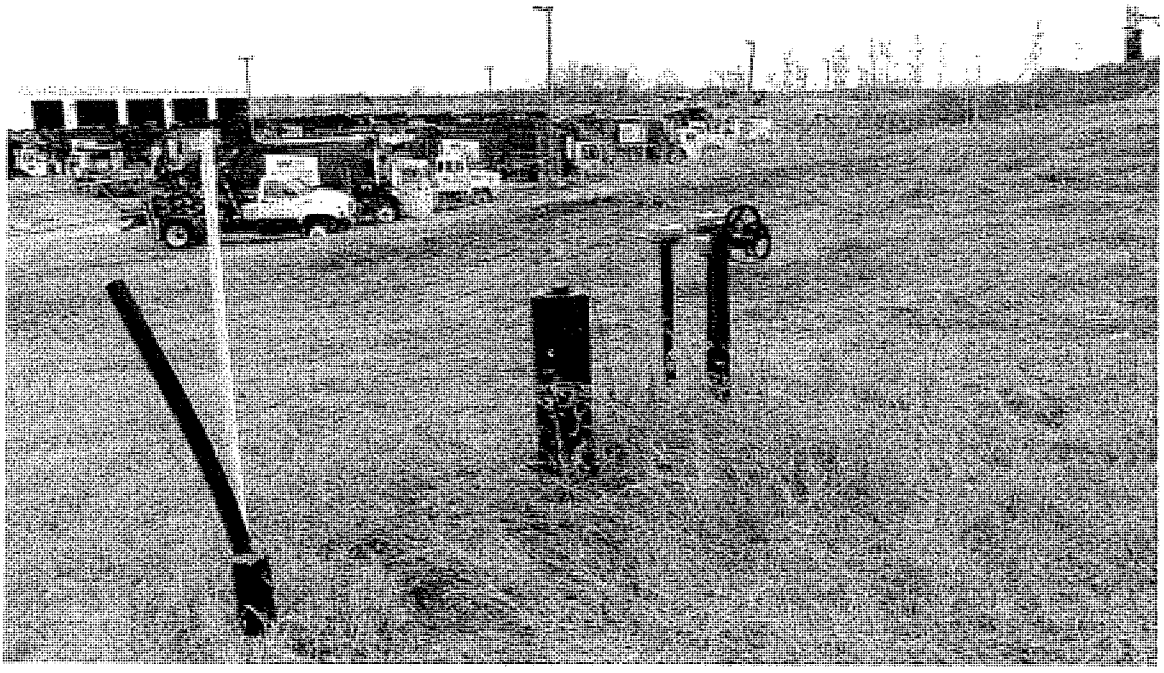
Photograph 5

Photograph 6



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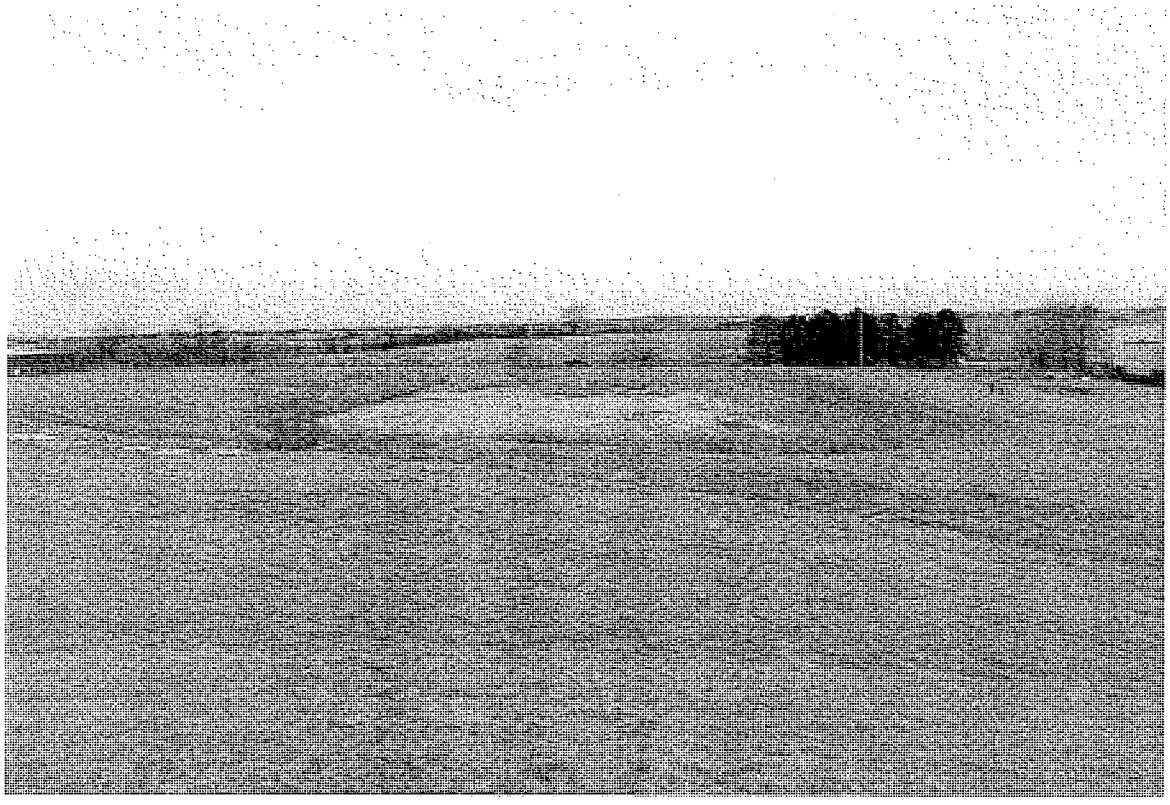

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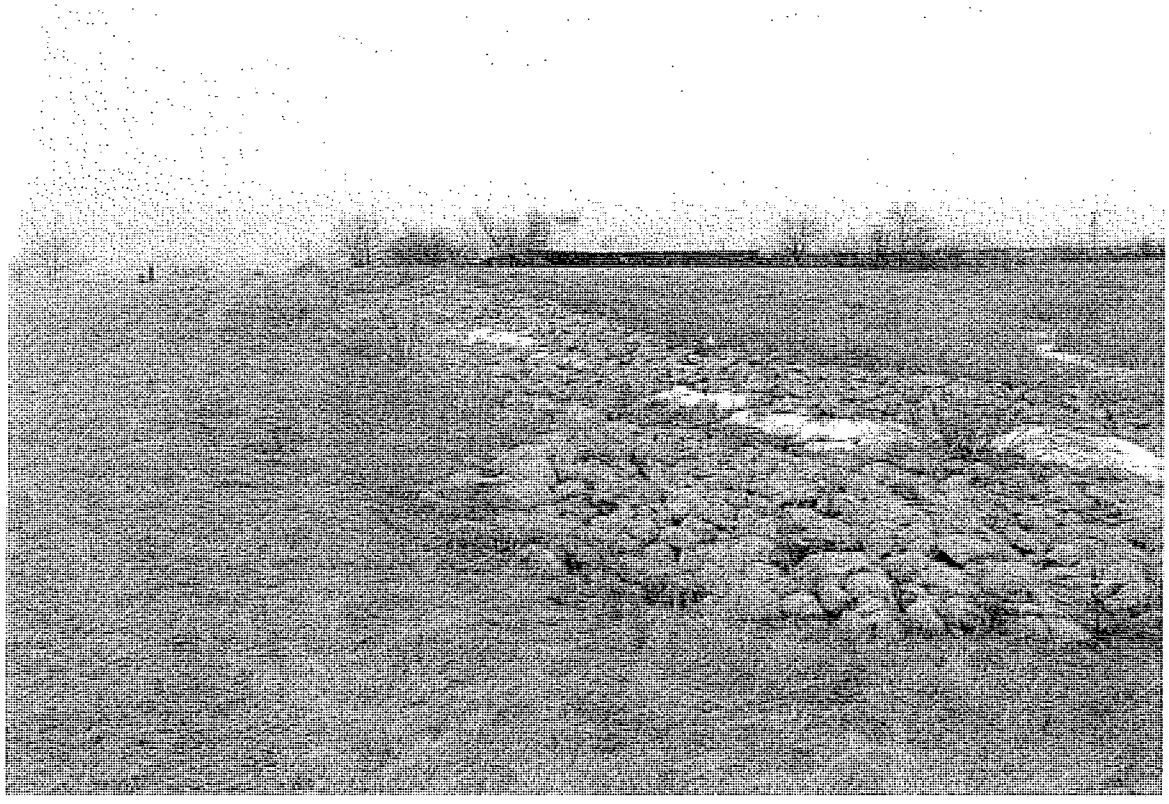
Photograph 9



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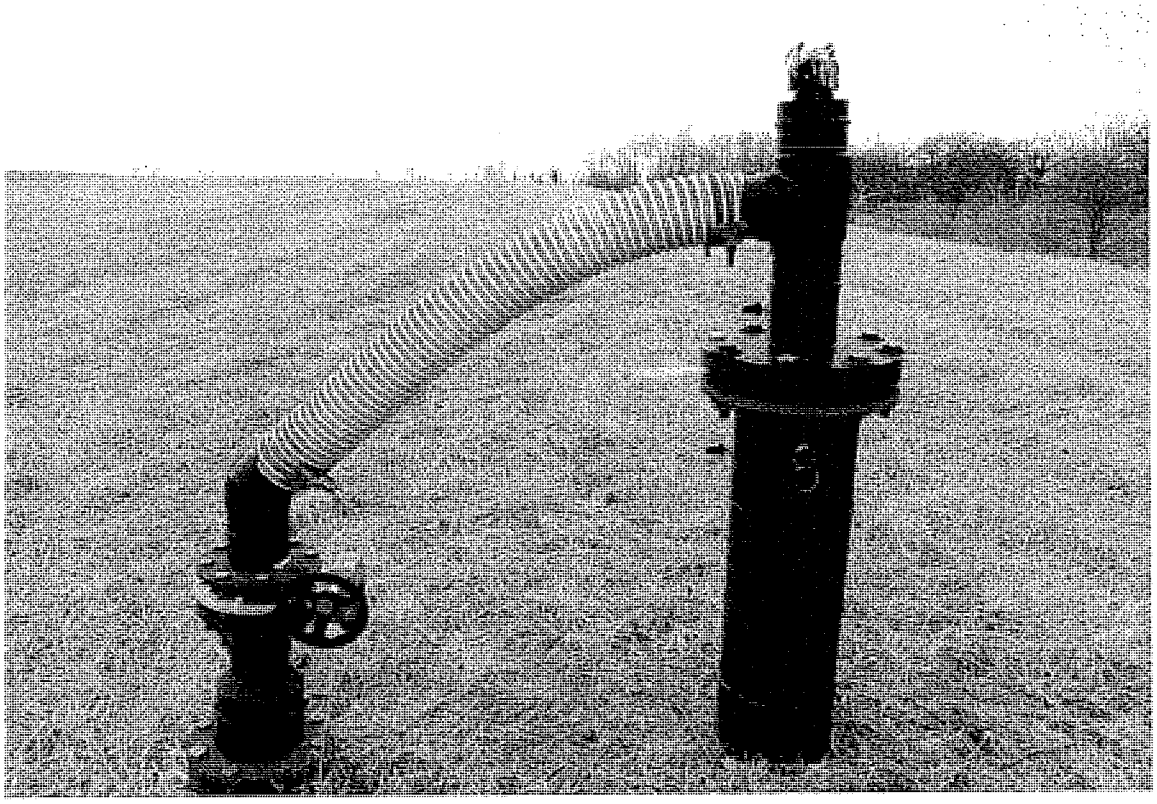
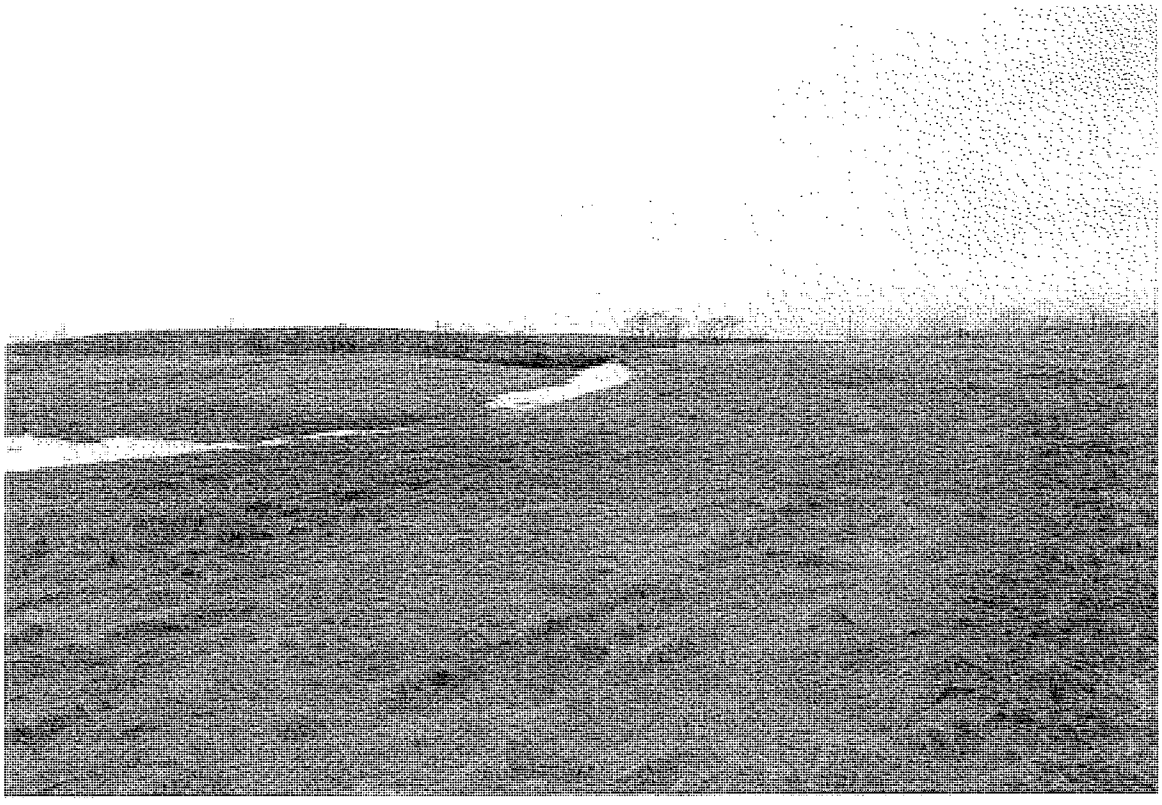


Photograph 11

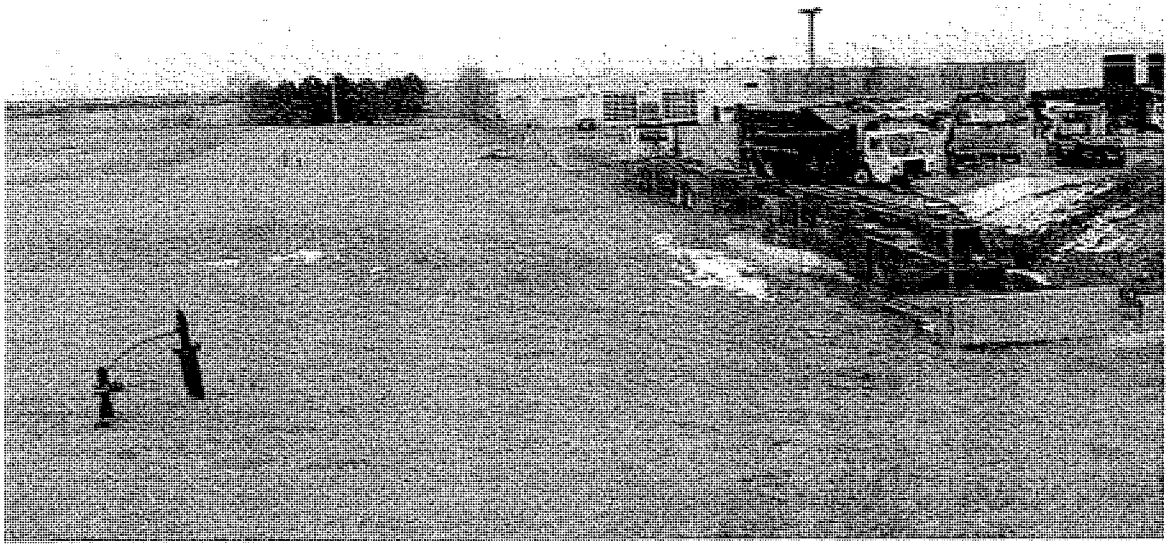
Photograph 12

Photograph 13

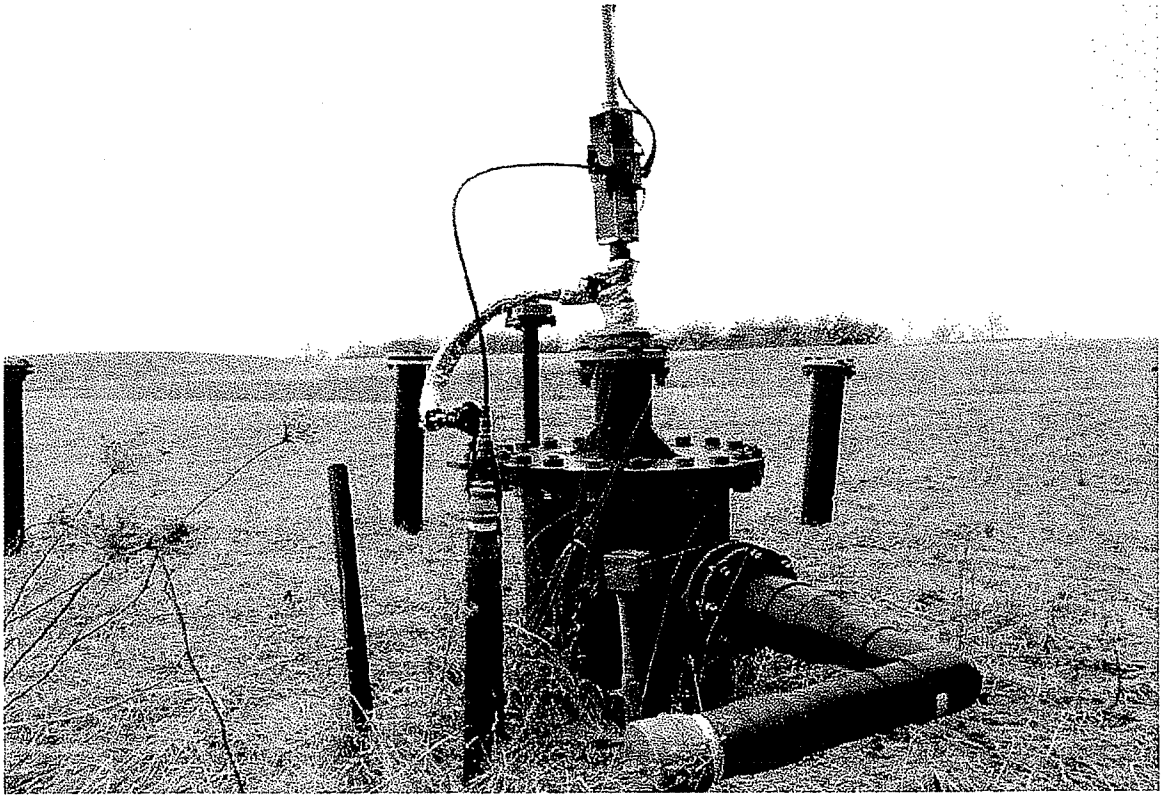


Photograph 14

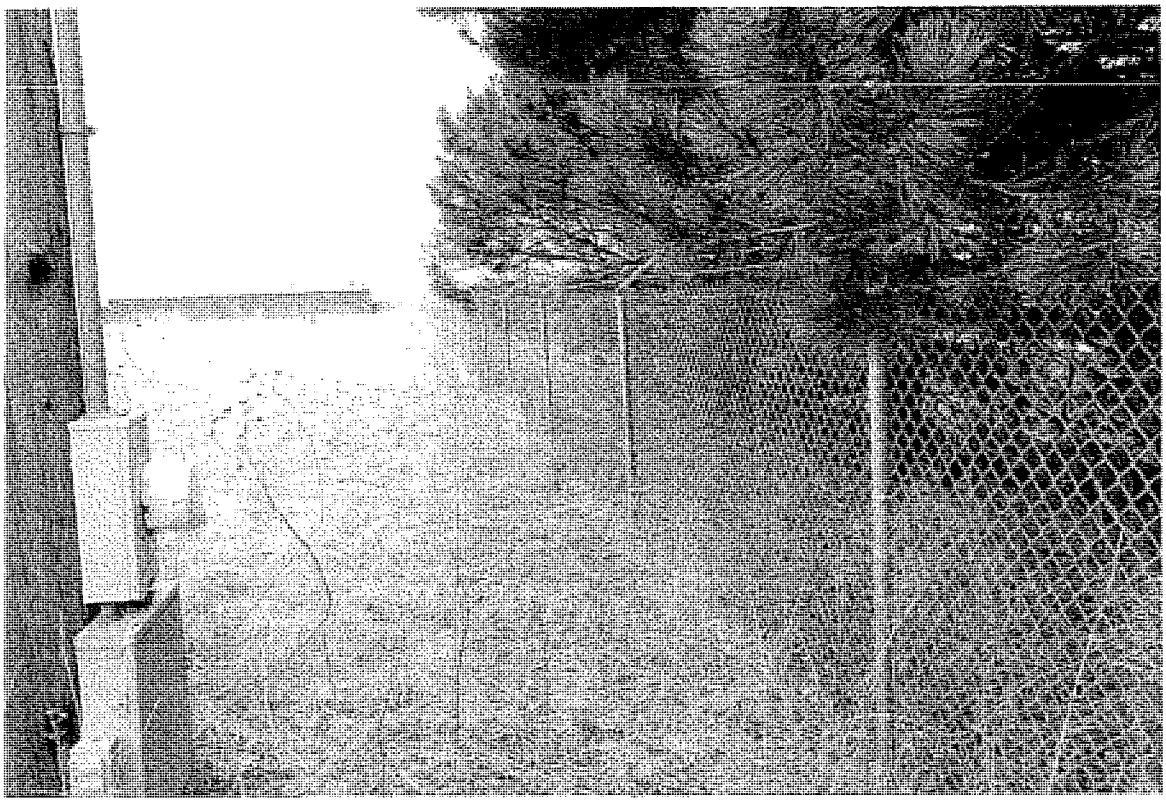
Photograph 15



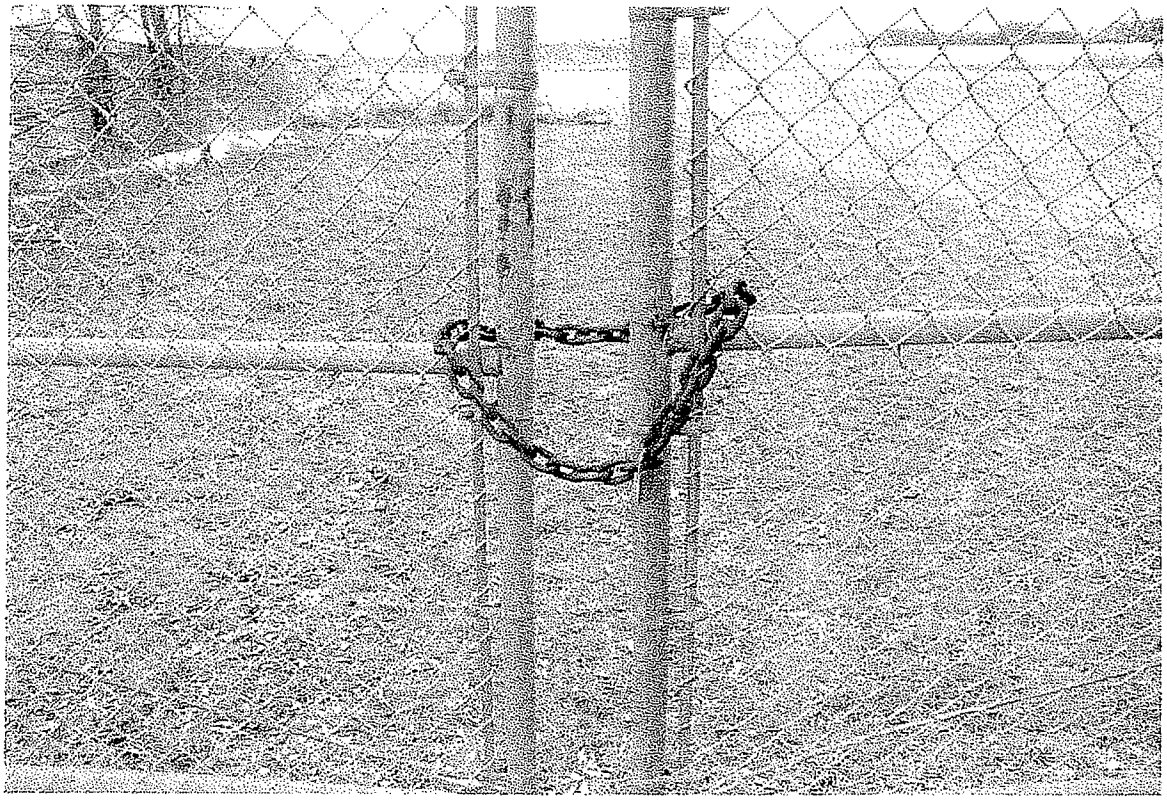
Photograph 16



Photograph 17



Photograph 18



Photograph 19

Daily Summary Report

Employee Name: Eric Eberle **Site Name:** Elgin **Date:** 3/3/11

Temperature: 38 Cloudy

Subcontractor? No **Subcontractor Name:**

Time	Description of Work
12:00-16:00	Wellfield Moniterring and O&M site visit @ Elgin Landfill

Equipment: Truck Gem 2000 FG5GA

Parts & Material

Quantity	*Parts*	*Quantity*	*Parts*

Additional Personell

Landmarc Environmental Systems, LLC

May 11, 2011
Project No. 0120-137-30.00

Mr. Jim Hitzeroth
Allied Waste North Central Region
Mallard Lake Landfill
26W580 Schick Road
Hanover Park, Illinois 60133

Re: 2nd Quarter Site Inspection 2011
Elgin Landfill
Elgin, Illinois

Dear Mr. Hitzeroth:

Landmarc Environmental Systems, LLC. (Landmarc) is pleased to present the results from the quarterly site inspection conducted on May 11, 2011, at the Elgin Landfill located in Elgin, Illinois.

Attached is the quarterly site inspection observations and results. The gas monitoring was completed at the same time as the site inspection.

We trust this information meets with your requirements in this matter. If you have any questions or require further information, please do not hesitate to contact us.

Sincerely,
Landmarc Environmetal Systems, LLC.

E.E.
Eric Eberle by DES
Engineering Technician

Dan Sawyer
Senior Project Manger

cc: John V. Fagiolo, U.S. EPA

John Fagiolo
Remedial Project Manager
US EPA Region 5 Superfund
77 W. Jackson Blvd.
Chicago, IL 60601

ROUTINE SITE INSPECTION CHECKLIST
ELGIN LANDFILL SUPERFUND SITE
KANE COUNTY, ILLINOIS

INSPECTION DATE: 5/11/2011

Inspector(s) Names: Eric Eberle

Company: Landmarc Environmental Systems, LLC.

Weather Conditions: Cloudy and Warm.

General Site Conditions: Dry, with plenty of vegetation.
(e.g., muddy, dusty, etc.)

Inspection Item
(check when complete)

☒ General Assessment of Perimeter Fencing, Gates, & Locks
Notes: (1) Gate and Access Parking Area -Good.
(2) Perimeter Fencing – Fair
(3) Signs -Good
(4) All Site Gates, Probes and Sump have Locks in place.
See Photo: 4,5,14,16,18,19,20

Overall Condition: ☒ Good ☐ Fair ☐ Poor ☐ Critical – Take Immediate Action

☒ Landfill Perimeter East Slope
Notes: (1) Vegetation Growth Remains Good
(2) Slope Rock Toe in Good Condition.
(3) Small Gullies Previously Observed have not worsened and are well vegetated.
See Photo: 14,15

Overall Condition: ☒ Good ☐ Fair ☐ Poor ☐ Critical – Take Immediate Action

☒ Landfill Perimeter West Slope
Notes: (1) Vegetation Growth Remains good
(2) Slope, West Ditch and area along fence well vegetated.
(3) Good vegetation is established. Ditch unblocked
See Photo:7,8

Overall Condition: ☒ Good ☐ Fair ☐ Poor ☐ Critical – Take Immediate Action

☒ Landfill Perimeter South Slope
Notes: (1) Vegetation growth good
See Photo: 13

Overall Condition: ☒ Good ☐ Fair ☐ Poor ☐ Critical – Take Immediate Action

Inspection Item (check when complete)				
☒ Upper Storm water Pond Notes: (1) Water in pond is at drain level. (2) Vegetation remains strong (3) Upper pond East and West slopes vegetated and stable				See Photo: 9
Overall Condition:	☒Good	☐ Fair	☐ Poor	☐ Critical – Take Immediate Action
☒ Lower Storm Water Pond and Discharge Notes: (1) Good vegetation growth around the wetland and pond area. Vegetation on the drainage ditches for the pond appears stable. (2) Water in pond at drain level. (3) Riprap at inlet channels appear in good condition.	(4) Discharge pipe and Rt. 25 Box culvert unblocked.			See Photos: 11,12
Overall Condition:	☒Good	☐ Fair	☐ Poor	☐ Critical – Take Immediate Action
☒ Landfill Top Surfaces and Drainage Swales Notes: (1)Vegetation growth stable (2) No significant erosion noted. (3) No signs of damage, vandalism or unauthorized entry at the Landfill. (4) Condensate Knockout/Lift Station. (5) Gas Extraction Well.	☐ OTHER			See Photos: 1-20
Overall Condition:	☒Good	☐ Fair	☐ Poor	☐ Critical – Take Immediate Action

GAS SYSTEM INSPECTION CHECKLIST
ELGIN LANDFILL SUPERFUND SITE
KANE COUNTY, ILLINOIS

INSPECTION TYPE: (Circle) (Quarterly)/Monthly **INSPECTION DATE:** 5/11/2011

Inspector(s) Names: Eric Eberle

Company: Landmarc Environmental Systems, LLC.

Weather Conditions: Cloudy and Warm. 85 deg

General Site Conditions: Dry, with plenty of vegetation.
(e.g., muddy, dusty, etc.)

Inspection Item
(check when complete)

☑ Condensate Knock-Out/Lift Station (KSE01)

Notes:

(1) Condensate Level: _____ ft. (2) Condensate Volume: _____ ft^3 (3) Valves: Air - Open Y/N Y
Discharge - Open Y/N Y
Isolation - Open Y/N Y

(4) Air Pressure Reading: 41 psi (5) Electrical: Meter OK Y/N Y
Outlet Power OK Y/N Y
Heat Tracing OK Y/N Y

(6) Pump: Manual On/(Off) Check OK Y/N Y

(8) Other See "Other Notes" _____ _____ (7) Pump Cycle Reading Reset to 0

Overall Condition: ☑ Good ☐ Fair ☐ Poor ☐ Critical – Take Immediate Action

☑ Monitoring Control Stations

	MCE01	MCE02
% Methane	48.9	41.6
% Oxygen	0	0.8
% Carbon Dioxide	24.9	26.3

MCE01 (Southeast Tie-in)
Valves: 2-in Air - Open Y/N Y
2-in Discharge - Open Y/N Y
6-in Gas Header - Valve Setting Open
Other: _____

MCE02 (Southwest Tie-in)
Valve:
6-in Gas Header - Valve Setting Open
Other: _____

Overall Condition: ☑ Good ☐ Fair ☐ Poor ☐ Critical – Take Immediate Action

☑ East LFG Well System (GWE 01 thru GWE13) Remember Close Sample Ports and Reattach Hoses.

Activity	GWE01	GWE02	GWE03	GWE04	GWE05	GWE06	GWE07	GWE08	GWE09	GWE10	GWE11	GWE12	GWE13	GWE14
Well Pressure	0.6	0.4	0.3	0.3	0.1	0.1	0.2	0.2	0.1	0.1	0.2	0.2	0.2	0.0
Header Pressure	0.2	0.2	0.3	0.2	0.2	0.3	0.3	0.2	0.2	0.2	0.3	0.3	0.2	0.3
Differential Press.	6.879	0.051	0.051	0.048	0.046	-0.072	0.042	0.047	0.041	6.754	0. 42	0.183	4.817	0.034
LFG Temperature	91	88	97	95	92	91	92	96	94	95	92	91	92	99
LFG Flow	2	1	1	1	0	1	1	1	1	1	1	1	3	1
% Methane	51.6	50.9	0.0	49.2	16.9	31.2	33.7	48.7	16.3	27	25.5	48.9	26.3	14.1
% Oxygen	0.0	0.0	1.7	0.2	1.4	0	0.8	0	0.2	1	0.0	0.5	0.5	4.6
% Carbon Dioxide	26.1	25.8	12.2	24.8	14.8	11.5	13.0	25.2	13.9	8.3	11.4	24.6	13	12.4
Valve Setting			Closed						Closed	Closed	Closed			
Other														
Other														

Overall Condition: ☑ Good ☐ Fair ☐ Poor ☐ Critical – Take Immediate Action

Other Notes:

INSPECTION TYPE: (Circle) (Quarterly)/Monthly **INSPECTION DATE:** 5/11/2011

Inspection Item
(check when complete)

☑ East LFG Extraction Well System (GWE 14 thru GWE19) Remember Close Sample Ports and Reattach Hoses.

Activity	GWE15	GWE16	GWE17	GWE18	GWE19
Well Static Pressure	0.2	0.1	0.1	0.1	0.0
Header Static Pressure	0.3	0.3	0.2	0.3	0.3
Differential Pressure	0.026	0.023	6.705	0.012	-0.02
LFG Temperature	93	92	97	95	93
LFG Flow	1	1	0	0	0
% Methane	44.8	0	44.4	41.7	14.4
% Oxygen	0	6.2	0	0.9	0
% Carbon Dioxide	30.8	6.1	30.8	30.8	17.4
Valve Setting					
Other					
Other					

Overall Condition: ☑ Good ☐ Fair ☐ Poor ☐ Critical – Take Immediate Action

☑ Cleanouts Located at LFG Wells GWE14, GWE19, and Three (3) Cleanouts Near KSE01.

Notes:

Overall Condition: ☑ Good ☐ Fair ☐ Poor ☐ Critical – Take Immediate Action

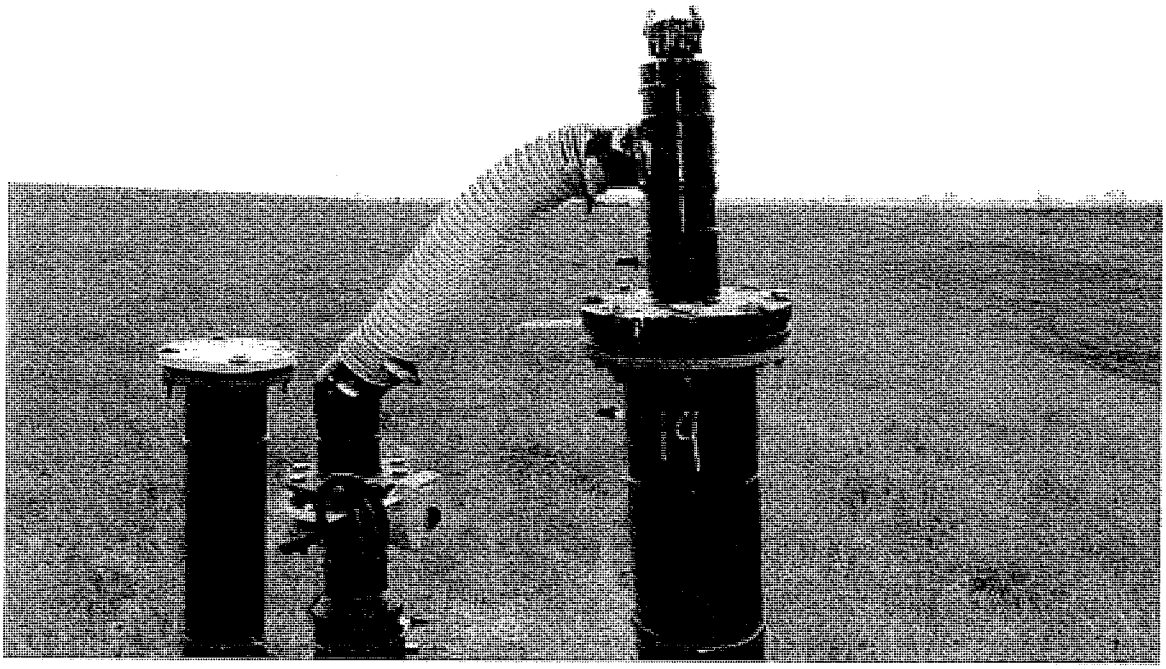
☑ LFG Probes, GPE01 Thru GPE05

Gas Monitoring: Y/N Y

Activity	GPE01	GPE02	GPE03	GPE04	GPE05
Probe Static Pressure	0.0	0.0	0.0	0.0	0.0
% Methane	0.0	0.0	0.0	0.0	0.0
Condition OK (Y)/N (Casing, Cap, Lock)	Y	Y	Y	Y	Y
Other					

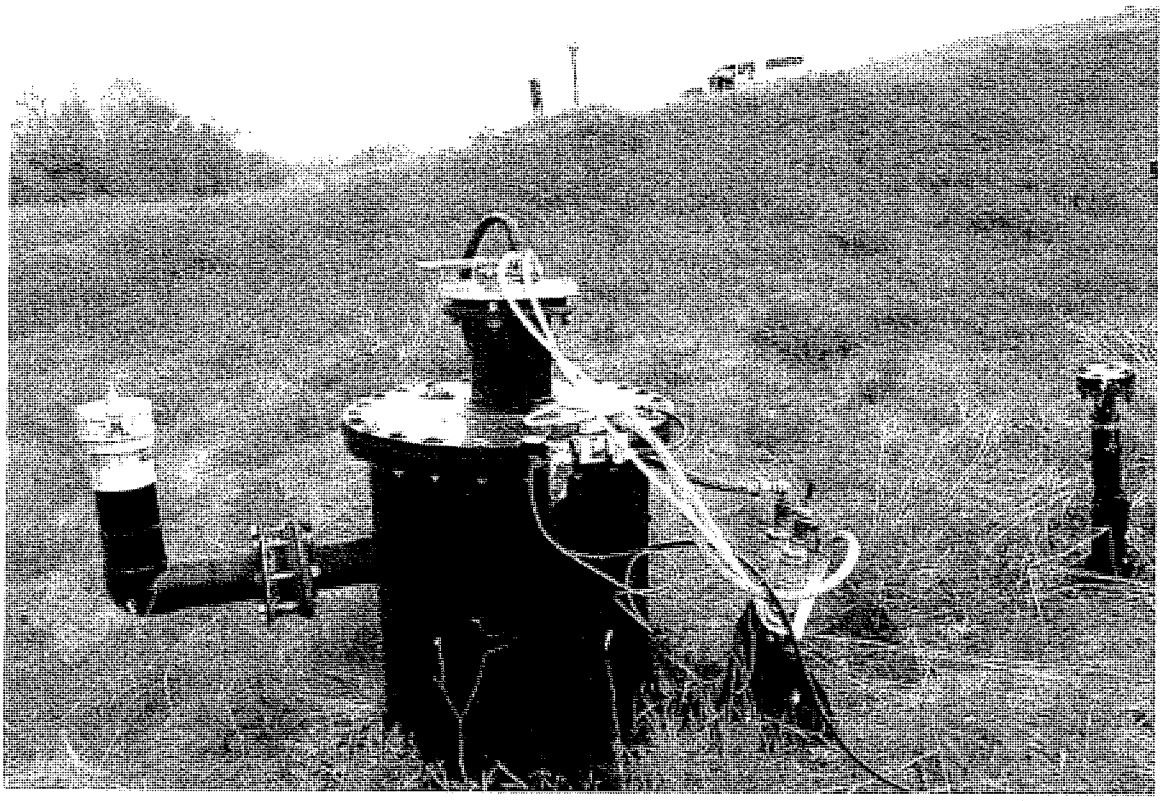
Notes:

Overall Condition: ☑ Good ☐ Fair ☐ Poor ☐ Critical – Take Immediate Action



Photograph 1

Photograph 2



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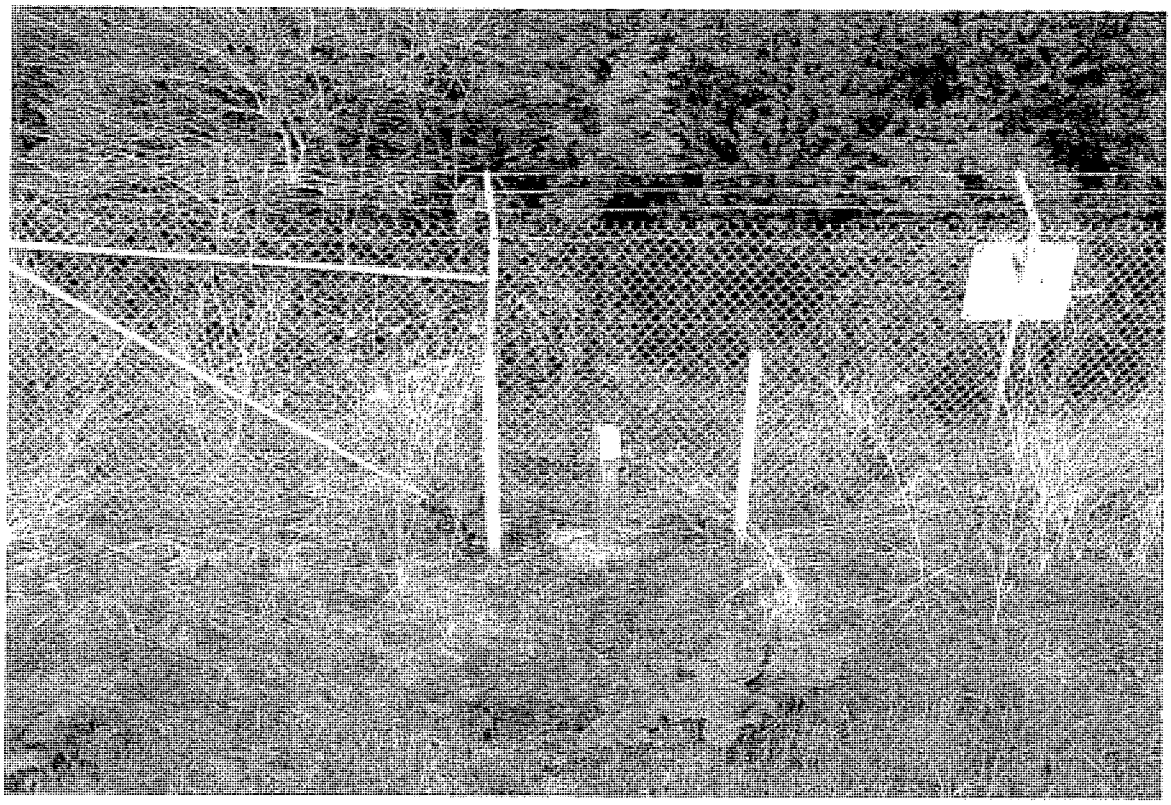
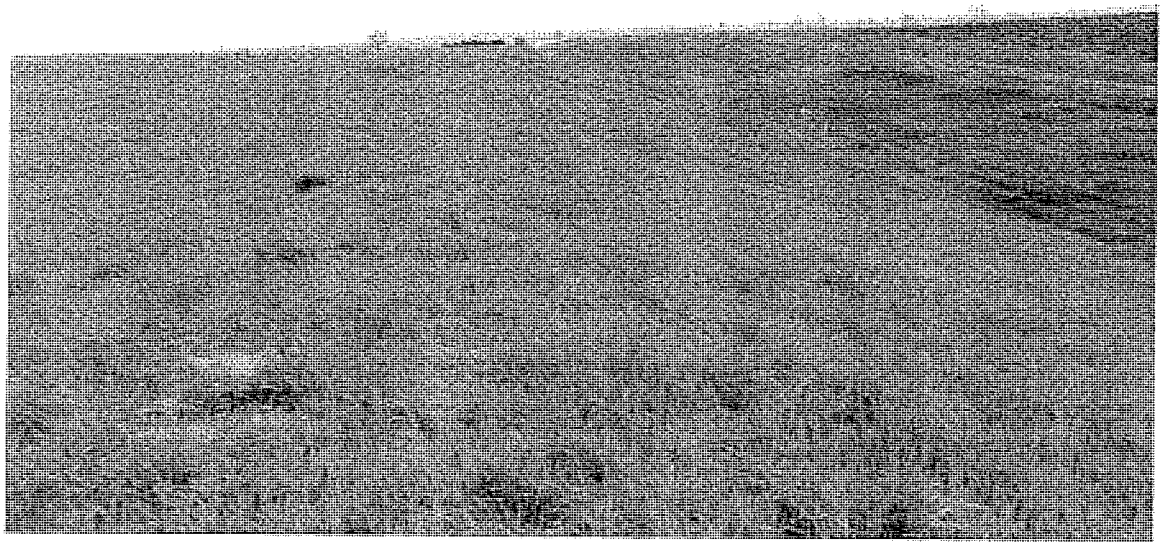


Photograph 4

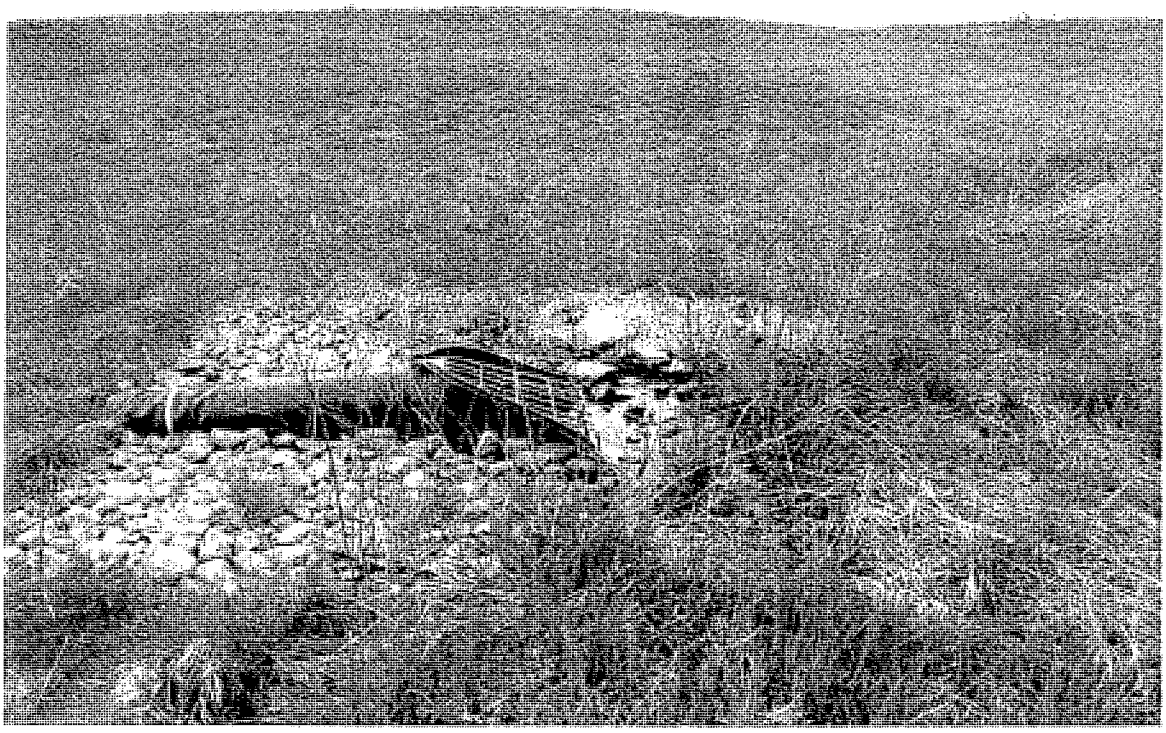
Photograph 5



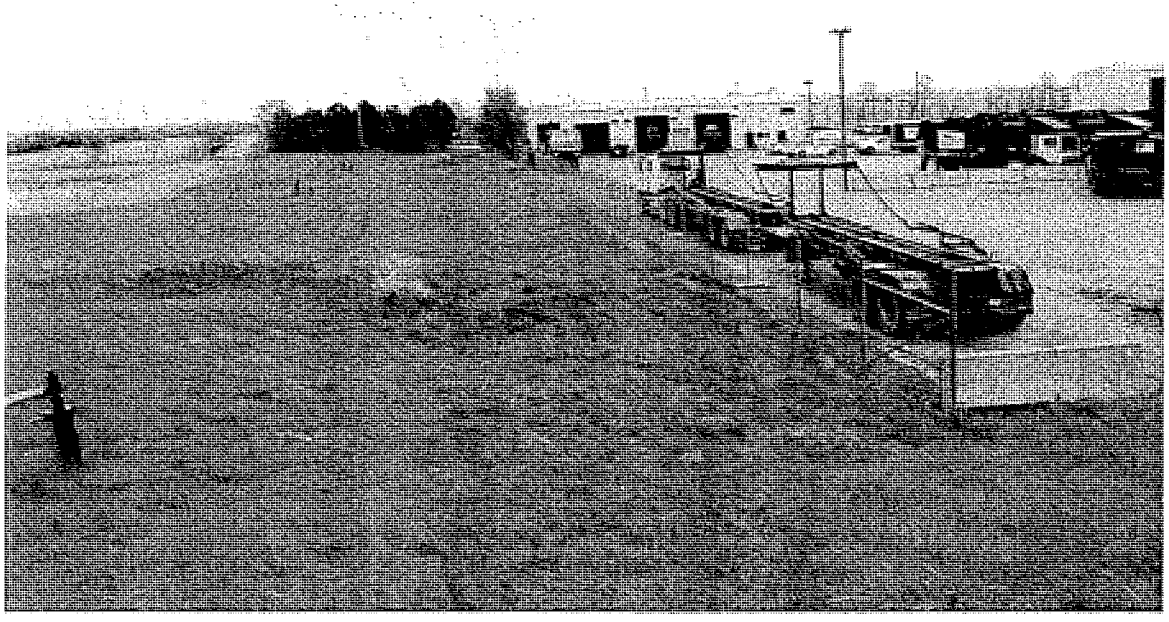
Photograph 6

Photograph 7

Photograph 8

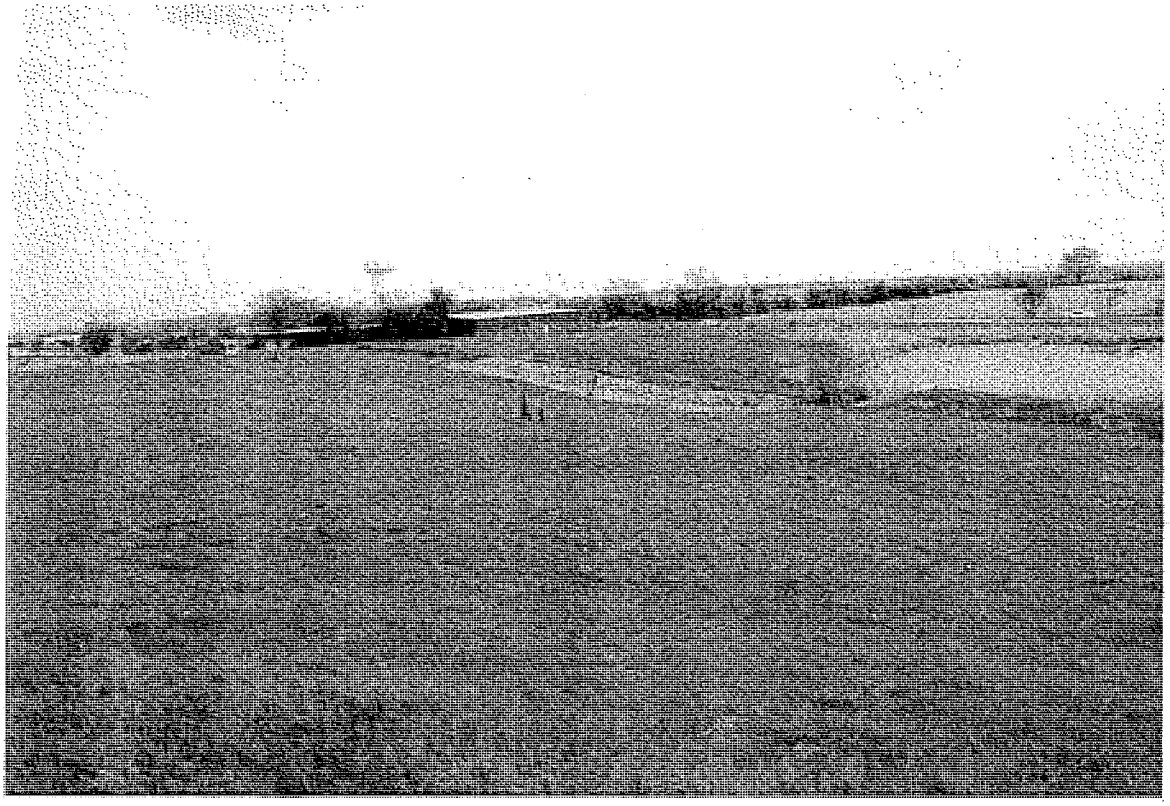


Photograph 9



Photograph 10

Photograph 11



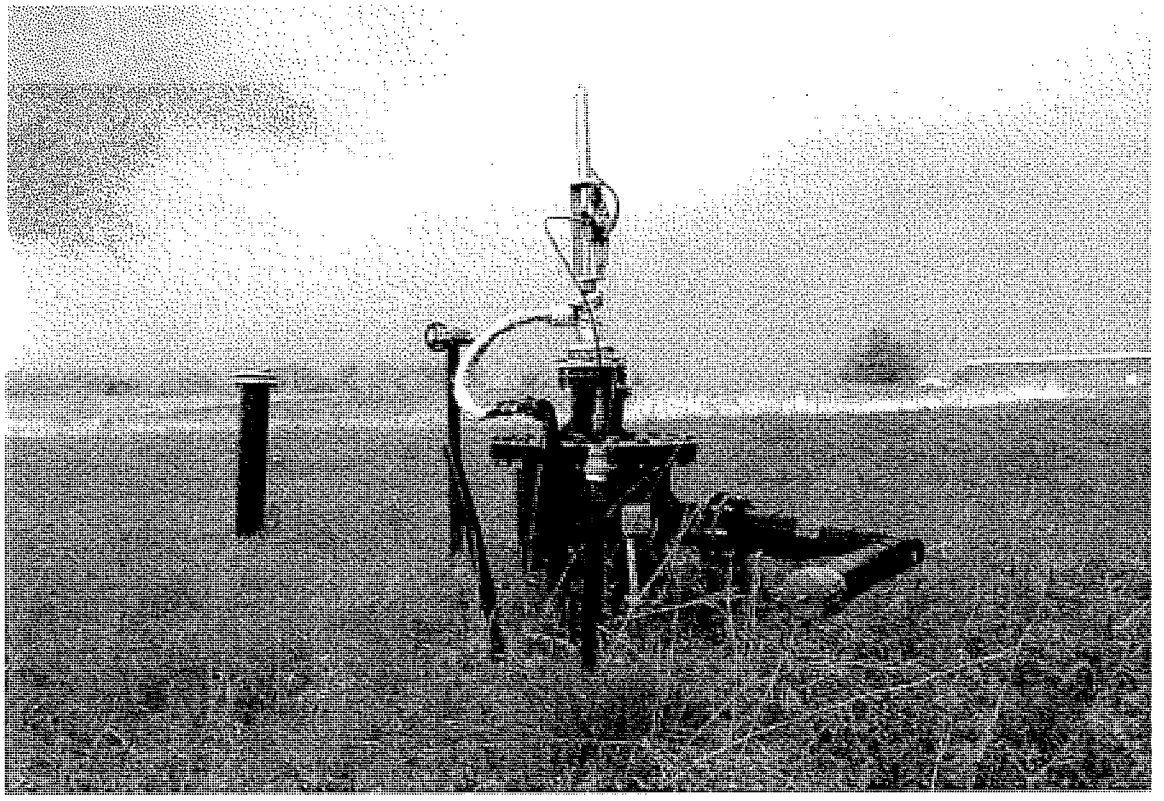
Photograph 12

Photograph 13

Photograph 14

Photograph 15

Photograph 16



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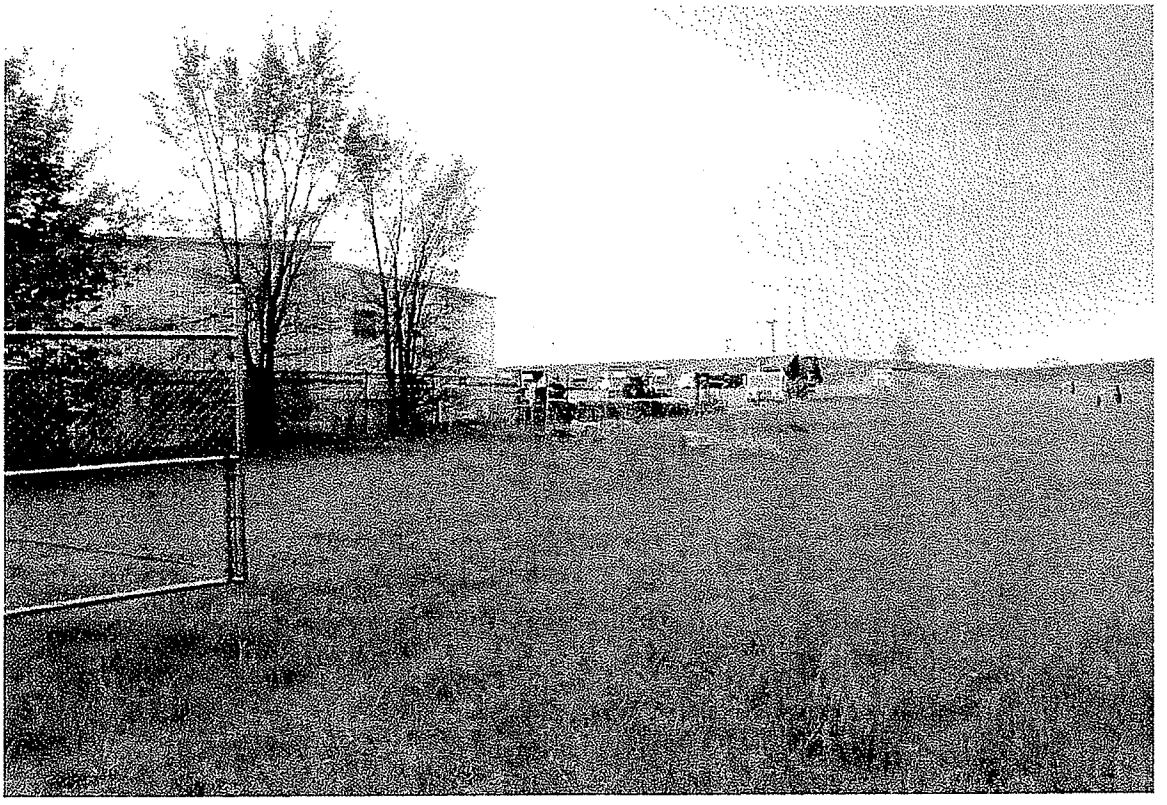


Photograph 18

Photograph 19

Photgraph 20

Daily Summary Report

Employee Name: Eric Eberle **Site Name:** **Date:** 5/11/11

Temperature: 85 Cloudy

Subcontractor? No **Subcontractor Name:**

Time	Description of Work
13:00-17:00	O&M Inspection Gas readings, cleaned site, took photos

Equipment: Truck
FG5GA

Parts & Material

Quantity	*Parts*	*Quantity*	*Parts*
10	Rubber caps		
15	1/4 plastic barb fittings		

Additional Personell

Landmarc Environmental Systems, LLC

August 17, 2011
Project No. 0120-137-30.00

Mr. Jim Hitzeroth
Allied Waste North Central Region
Mallard Lake Landfill
26W580 Schick Road
Hanover Park, Illinois 60133

Re: 3rd Quarter Site Inspection 2011
Elgin Landfill
Elgin, Illinois

Dear Mr. Hitzeroth:

Landmarc Environmental Systems, LLC. (Landmarc) is pleased to present the results from the quarterly site inspection conducted on August 17, 2011, at the Elgin Landfill located in Elgin, Illinois.

Attached is the quarterly site inspection observations and results. The gas monitoring was completed at the same time as the site inspection.

We trust this information meets with your requirements in this matter. If you have any questions or require further information, please do not hesitate to contact us.

Sincerely,
Landmarc Environmetal Systems, LLC.

E.E.
Eric Eberle By DES
Engineering Technician

Dan Sawyer
Senior Project Manger

cc: John V. Fagiolo, U.S. EPA

John Fagiolo
Remedial Project Manager
US EPA Region 5 Superfund
77 W. Jackson Blvd.
Chicago, IL 60601

ROUTINE SITE INSPECTION CHECKLIST
ELGIN LANDFILL SUPERFUND SITE
KANE COUNTY, ILLINOIS

INSPECTION DATE: 8/17/2011

Inspector(s) Names: Eric Eberle

Company: Landmarc Environmental Systems, LLC.

Weather Conditions: Cloudy and Warm.

General Site Conditions: Dry, with plenty of vegetation.
(e.g., muddy, dusty, etc.)

Inspection Item
(check when complete)

☒ General Assessment of Perimeter Fencing, Gates, & Locks
Notes: (1) Gate and Access Parking Area -Good.
(2) Perimeter Fencing – Fair
(3) Signs -Good
(4) All Site Gates, Probes and Sump have Locks in place.
See Photo: #6,#7
Overall Condition: ☒ Good ☐ Fair ☐ Poor ☐ Critical – Take Immediate Action

☒ Landfill Perimeter East Slope
Notes: (1) Vegetation Growth Remains Good
(2) Slope Rock Toe in Good Condition.
(3) Small Gullies Previously Observed have not worsened and are well vegetated.
See Photo: #6,#7
Overall Condition: ☒ Good ☐ Fair ☐ Poor ☐ Critical – Take Immediate Action

☒ Landfill Perimeter West Slope
Notes: (1) Vegetation Growth Remains good
(2) Slope, West Ditch and area along fence well vegetated.
(3) Good vegetation is established. Ditch unblocked
See Photo:#6,#7
Overall Condition: ☒ Good ☐ Fair ☐ Poor ☐ Critical – Take Immediate Action

☒ Landfill Perimeter South Slope
Notes: (1) Vegetation growth good
See Photo: #5
Overall Condition: ☒ Good ☐ Fair ☐ Poor ☐ Critical – Take Immediate Action

Inspection Item (check when complete)				
☒ Upper Storm water Pond Notes: (1) water in pond at drain level. (2) Vegetation remains strong (3) Upper pond East and West slopes vegetated and stable				See Photo: #8
Overall Condition:	☒Good	☐ Fair	☐ Poor	☐ Critical – Take Immediate Action
☒ Lower Storm water Pond and Discharge Notes: (1) Good vegetation growth around the wetland and pond area. Vegetation on the drainage ditches for the pond appears stable. (2) Water in pond at drain level. (3) Riprap at inlet channels appear in good condition.	(4) Discharge pipe and Rt. 25 Box culvert unblocked.			See Photos: #9, # 10
Overall Condition:	☒Good	☐ Fair	☐ Poor	☐ Critical – Take Immediate Action
☒ Landfill Top Surfaces and Drainage Swales Notes: (1)Vegetation growth stable (2) No significant erosion noted. (3) No signs of damage, vandalism or unauthorized entry at the Landfill. (4) Condensate Knockout/Lift Station. (5) Gas Extraction Well.	☐ OTHER			See Photos: 1-10
Overall Condition:	☒Good	☐ Fair	☐ Poor	☐ Critical – Take Immediate Action

GAS SYSTEM INSPECTION CHECKLIST
ELGIN LANDFILL SUPERFUND SITE
KANE COUNTY, ILLINOIS

INSPECTION TYPE: (Circle) (Quarterly)/Monthly **INSPECTION DATE:** 8/17/2011

Inspector(s) Names: Eric Eberle

Company: Landmarc Environmental Systems, LLC.

Weather Conditions: Cloudy and Warm. 85 deg

General Site Conditions: Dry, with plenty of vegetation.
(e.g., muddy, dusty, etc.)

Inspection Item
(check when complete)

☑ Condensate Knock-Out/Lift Station (KSE01)

Notes:

(1) Condensate Level: _____ ft. (2) Condensate Volume: _____ ft^3 (3) Valves: Air - Open Y/N Y
Discharge - Open Y/N Y
Isolation - Open Y/N Y

(4) Air Pressure Reading: 41 psi (5) Electrical: Meter OK Y/N Y
Outlet Power OK Y/N Y
Heat Tracing OK Y/N Y (6) Pump: Manual On/(Off) Check OK Y/N Y

(8) Other See "Other Notes" _____ _____ (7) Pump Cycle Reading Reset to 0

Overall Condition: ☑ Good ☐ Fair ☐ Poor ☐ Critical – Take Immediate Action

☑ Monitoring Control Stations

	MCE01	MCE02
% Methane	51.4	0
% Oxygen	1.7	19.4
% Carbon Dioxide	22.2	0

MCE01 (Southeast Tie-in)
Valves: 2-in Air - Open Y/N Y
2-in Discharge - Open Y/N Y
6-in Gas Header - Valve Setting Open
Other: _____

MCE02 (Southwest Tie-in)
Valve:
6-in Gas Header - Valve Setting Open
Other: _____

Overall Condition: ☑ Good ☐ Fair ☐ Poor ☐ Critical – Take Immediate Action

☑ East LFG Well System (GWE 01 thru GWE13) Remember Close Sample Ports and Reattach Hoses.

Activity	GWE01	GWE02	GWE03	GWE04	GWE05	GWE06	GWE07	GWE08	GWE09	GWE10	GWE11	GWE12	GWE13	GWE14
Well Pressure	0.0	-0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Header Pressure	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Differential Press.	-0.004	-0.005	-0.005	-0.001	-0.005	-0.007	-0.003	-0.051	-0.024	2.935	-0.014	-0.01	-0.053	-0.003
LFG Temperature	88	82	81	82	81	84	87	85	83	88	81	87	96	89
LFG Flow	0	0	0	0	0	0	0	0	0	0	0	0	0	0
% Methane	63.1	51.7	9.1	59.4	27.5	47	40.8	53	34.2	30.9	34.5	51.2	43.8	38.2
% Oxygen	0.0	0.0	0.2	0.0	2.6	0	0.6	0.0	1.4	1.4	0.0	0	0.0	0.5
% Carbon Dioxide	25.9	24.7	17	24.1	16.3	11	13.8	22.5	12.4	8.5	17	18.6	15.2	13.4
Valve Setting			Closed						Closed	Closed	Closed			
Other														
Other														

Overall Condition: ☑ Good ☐ Fair ☐ Poor ☐ Critical – Take Immediate Action

Other Notes:

GAS SYSTEM INSPECTION CHECKLIST
ELGIN LANDFILL SUPERFUND SITE
KANE COUNTY, ILLINOIS

INSPECTION TYPE: (Circle) (Quarterly)/Monthly

INSPECTION DATE: 8/17/2011

Inspection Item
(check when complete)

☑ East LFG Extraction Well System (GWE 14 thru GWE19) Remember Close Sample Ports and Reattach Hoses.

Activity	GWE15	GWE16	GWE17	GWE18	GWE19
Well Static Pressure	0.0	0.0	0.0	0.0	0.0
Header Static Pressure	0.0	0.0	0.0	0.0	0.0
Differential Pressure	-0.021	-0.008	-0.018	-0.046	-0.2
LFG Temperature	86	93	87	87	84
LFG Flow	0	0	0	0	0
% Methane	11.6	17	24.2	31.6	37.8
% Oxygen	6.4	0	0	0.0	1.4
% Carbon Dioxide	8.2	9.2	16.7	15.8	20
Valve Setting					
Other					
Other					

Overall Condition: ☑ Good ☐ Fair ☐ Poor ☐ Critical – Take Immediate Action

☑ Cleanouts Located at LFG Wells GWE14, GWE19, and Three (3) Cleanouts Near KSE01.

Notes:

Overall Condition: ☑ Good ☐ Fair ☐ Poor ☐ Critical – Take Immediate Action

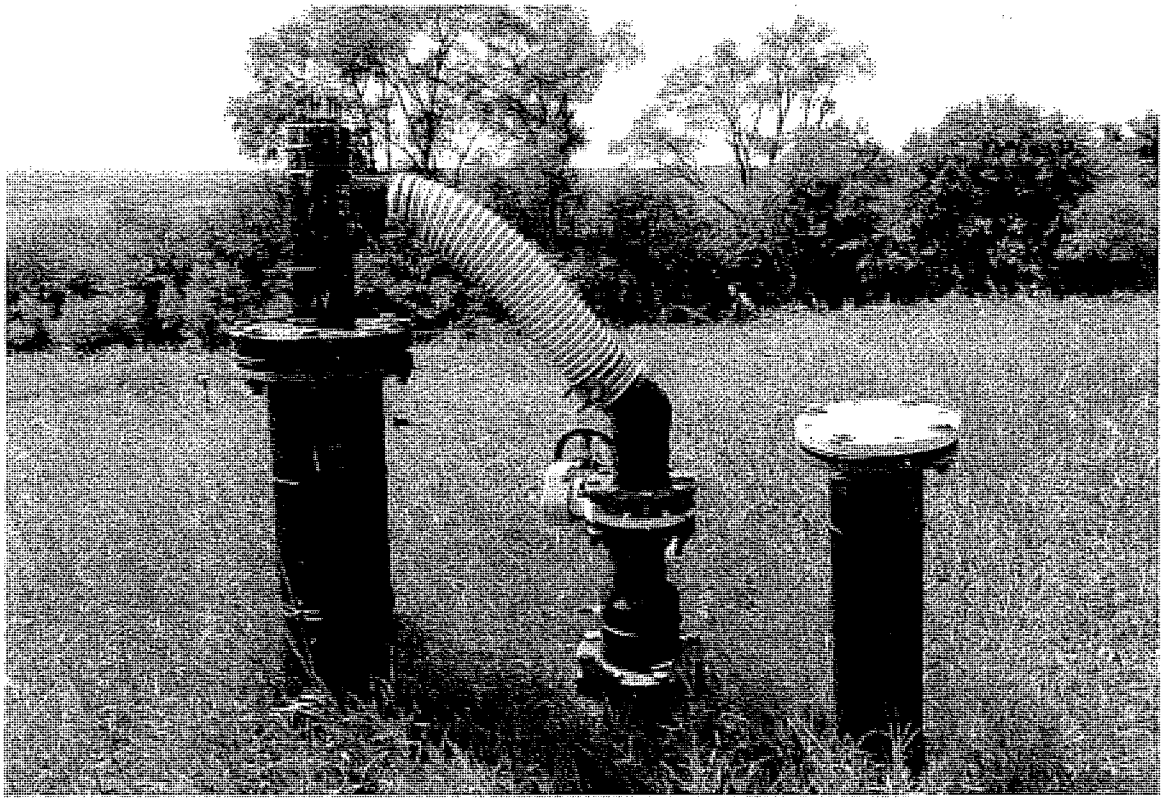
☑ LFG Probes, GPE01 Thru GPE05

Gas Monitoring: Y/N Y

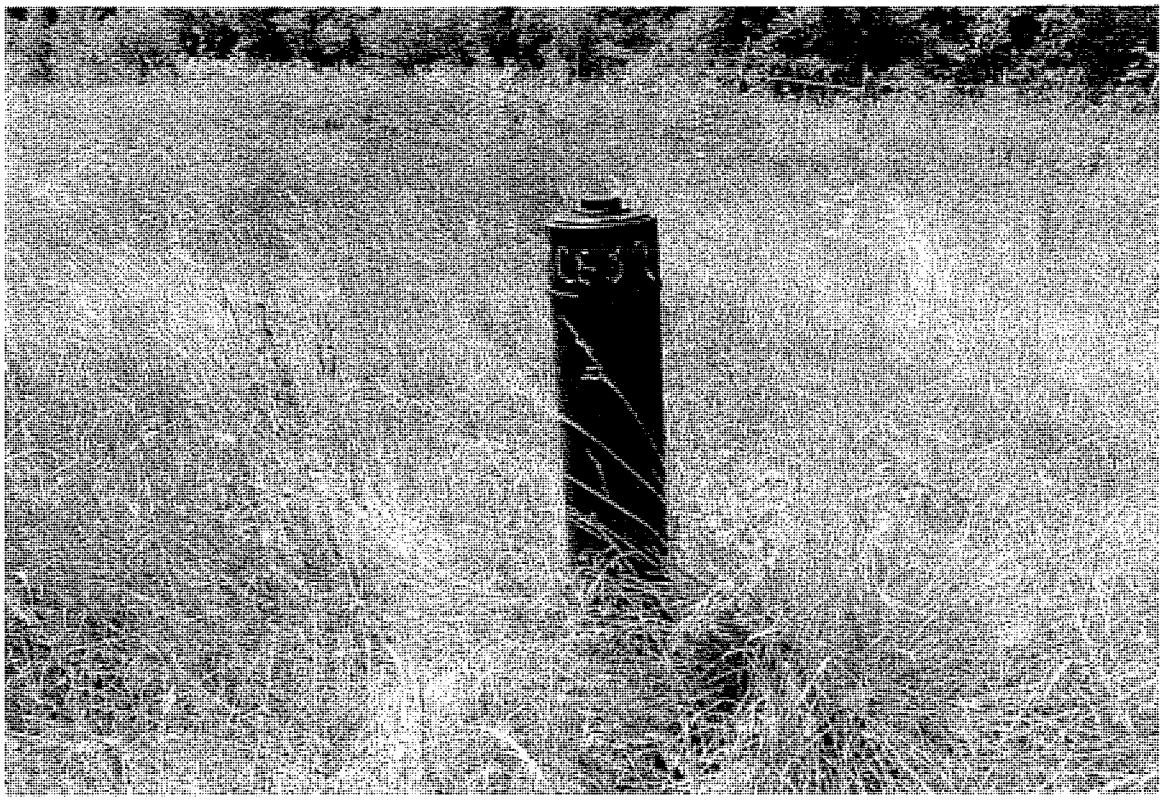
Activity	GPE01	GPE02	GPE03	GPE04	GPE05
Probe Static Pressure	0.0	0.0	0.0	0.0	0.0
% Methane	0.0	0.0	0.0	0.0	0.0
Condition OK (Y)/N (Casing, Cap, Lock)	Y	Y	Y	Y	Y
Other					

Notes:

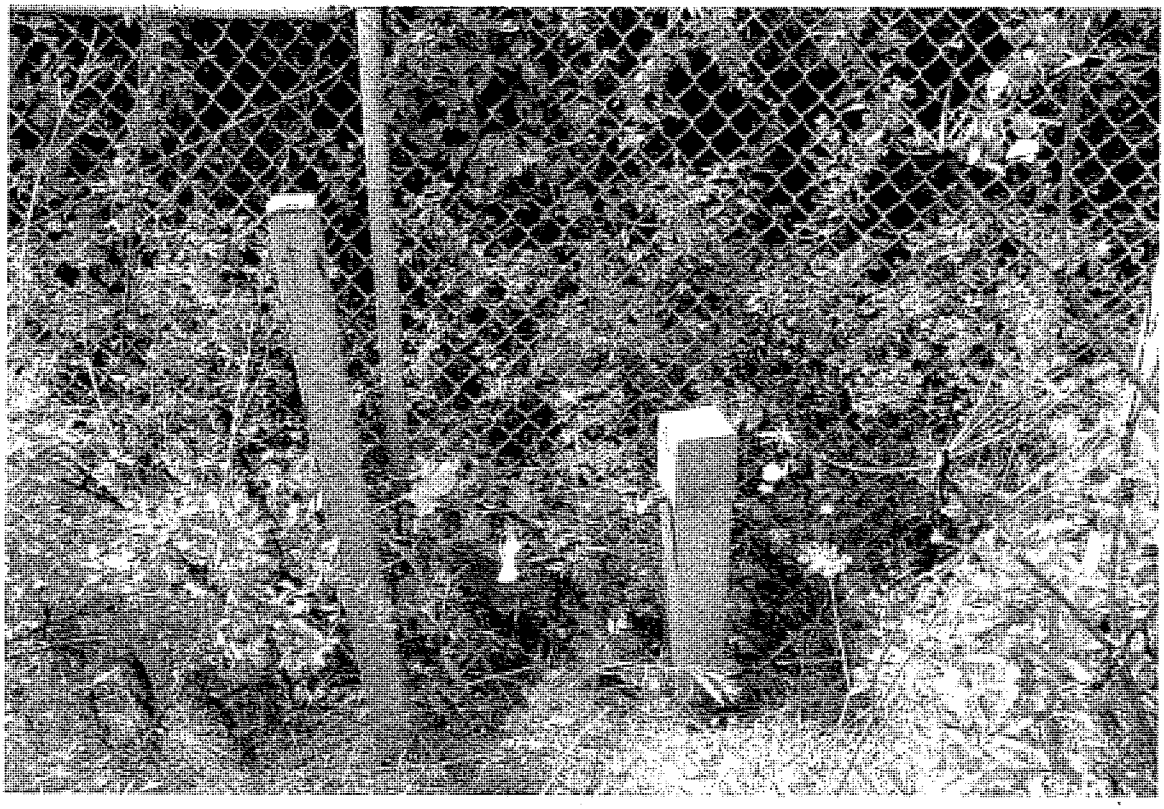
Overall Condition: ☑ Good ☐ Fair ☐ Poor ☐ Critical – Take Immediate Action



Photograph 1



Photograph 2



Photograph 3

Photograph 4

Photograph 5

Photograph 6

Photograph 7

Photograph 8

Photograph 9

Photograph 10

Daily Summary Report

Employee Name: Eric Eberle **Site Name:** Elgin **Date:** 8/17/11

Temperature: 85 Sunny

Subcontractor? No **Subcontractor Name:**

Time	Description of Work
10:30-12:30	Gas Moniterring of Elgin Wellfield

Equipment: Truck
FG5GA GEM 2000

Parts & Material

Quantity	*Parts*	*Quantity*	*Parts*

Additional Personell

Landmarc Environmental Systems, LLC

October 12, 2011
Project No. 0120-137-30.00

Mr. Jim Hitzeroth
Allied Waste North Central Region
Mallard Lake Landfill
26W580 Schick Road
Hanover Park, Illinois 60133

Re: 4th Quarter Site Inspection 2011
Elgin Landfill
Elgin, Illinois

Dear Mr. Hitzeroth:

Landmarc Environmental Systems, LLC. (Landmarc) is pleased to present the results from the quarterly site inspection conducted on October 12, 2011, at the Elgin Landfill located in Elgin, Illinois.

Attached are the quarterly site inspection observations and results. The gas monitoring was completed at the same time as the site inspection.

We trust this information meets with your requirements in this matter. If you have any questions or require further information, please do not hesitate to contact us.

Sincerely,
Landmarc Environmetal Systems, LLC.

E.E.

Eric Eberle by DES
Engineering Technician

Dan Sawyer
Senior Project Manger

cc: John V. Fagiolo, U.S. EPA

John Fagiolo
Remedial Project Manager
US EPA Region 5 Superfund
77 W. Jackson Blvd.
Chicago, IL 60601

ROUTINE SITE INSPECTION CHECKLIST
ELGIN LANDFILL SUPERFUND SITE
KANE COUNTY, ILLINOIS

INSPECTION DATE: 10/12/2011

Inspector(s) Names: Eric Eberle

Company: Landmarc Environmental Systems, LLC.

Weather Conditions: Clear and Warm.

General Site Conditions: Dry, with plenty of vegetation.
(e.g., muddy, dusty, etc.)

Inspection Item
(check when complete)

☒ General Assessment of Perimeter Fencing, Gates, & Locks
Notes: (1) Gate and Access Parking Area -Good.
(2) Perimeter Fencing
(3) Signs -Good
(4) All Site Gates, Probes and Sump have Locks in place.
See Photo: 1,2,6,7,8,9

Overall Condition: ☒ Good ☐ Fair ☐ Poor ☐ Critical – Take Immediate Action

☒ Landfill Perimeter East Slope
Notes: (1) Vegetation Growth Remains Good
(2) Slope Rock Toe in Good Condition.
(3) Small Gullies Previously Observed have not worsened and are well vegetated.
See Photo: 6,7

Overall Condition: ☒ Good ☐ Fair ☐ Poor ☐ Critical – Take Immediate Action

☒ Landfill Perimeter West Slope
Notes: (1) Vegetation growth remains good.
(2) Slope, West Ditch and area along fence well vegetated.
(3) Good vegetation is established. Ditch unblocked
See Photo:9

Overall Condition: ☒ Good ☐ Fair ☐ Poor ☐ Critical – Take Immediate Action

☒ Landfill Perimeter South Slope
Notes: (1) Vegetation growth good
See Photo:2

Overall Condition: ☒ Good ☐ Fair ☐ Poor ☐ Critical – Take Immediate Action

Inspection Item (check when complete)				
☒ Upper Storm water Pond Notes: (1) Water in pond at drain level. (2) Vegetation remains strong (3) Upper pond East and West slopes vegetated and stable				See Photo: 2,3,12,13
Overall Condition:	☒Good	☐ Fair	☐ Poor	☐ Critical – Take Immediate Action
☒ Lower Storm water Pond and Discharge Notes: (1) Good vegetation growth around the wetland and pond area. Vegetation on the drainage ditches for the pond appears stable. (2) Water in pond at drain level. (3) Riprap at inlet channels appear in good condition.	(4) Discharge pipe and Rt. 25 Box culvert unblocked.			See Photos: 2,3
Overall Condition:	☒Good	☐ Fair	☐ Poor	☐ Critical – Take Immediate Action
☒ Landfill Top Surfaces and Drainage Swales Notes: (1)Vegetation growth stable (2) No significant erosion noted. (3) No signs of damage, vandalism or unauthorized entry at the Landfill. (4) Condensate Knockout/Lift Station. (5) Gas Extraction Well.	☐ OTHER			See Photos: 1-13
Overall Condition:	☒Good	☐ Fair	☐ Poor	☐ Critical – Take Immediate Action

GAS SYSTEM INSPECTION CHECKLIST
ELGIN LANDFILL SUPERFUND SITE
KANE COUNTY, ILLINOIS

INSPECTION TYPE: (Circle) (Quarterly)/Monthly **INSPECTION DATE:** 10/12/2011

Inspector(s) Names: Eric Eberle

Company: Landmarc Environmental Systems, LLC.

Weather Conditions: Clear and Warm. 75 deg

General Site Conditions: Dry, with plenty of vegetation.
(e.g., muddy, dusty, etc.)

Inspection Item
(check when complete)

☑ Condensate Knock-Out/Lift Station (KSE01)

Notes:

(1) Condensate Level: _____ ft. (2) Condensate Volume: _____ ft^3 (3) Valves: Air - Open Y/N Y
Discharge - Open Y/N Y
Isolation - Open Y/N Y

(4) Air Pressure Reading: 41 psi (5) Electrical: Meter OK Y/N Y
Outlet Power OK Y/N Y
Heat Tracing OK Y/N Y

(6) Pump: Manual On/(Off) Check OK Y/N Y

(8) Other See "Other Notes" _____ _____ (7) Pump Cycle Reading Reset to 0

Overall Condition: ☑ Good ☐ Fair ☐ Poor ☐ Critical – Take Immediate Action

☑ Monitoring Control Stations

	MCE01	MCE02
% Methane	36.1	0
% Oxygen	4.2	0
% Carbon Dioxide	16.4	19.8

MCE01 (Southeast Tie-in)
Valves: 2-in Air - Open Y/N Y
2-in Discharge - Open Y/N Y
6-in Gas Header - Valve Setting Open
Other: _____

MCE02 (Southwest Tie-in)
Valve:
6-in Gas Header - Valve Setting Open
Other: _____

Overall Condition: ☑ Good ☐ Fair ☐ Poor ☐ Critical – Take Immediate Action

☑ East LFG Well System (GWE 01 thru GWE13) Remember Close Sample Ports and Reattach Hoses.

Activity	GWE01	GWE02	GWE03	GWE04	GWE05	GWE06	GWE07	GWE08	GWE09	GWE10	GWE11	GWE12	GWE13	GWE14
Well Pressure	0.2	0.1	0.1	0.0	0.0	0.0	0.2	0.1	0.2	0.1	0.0	0.2	0.2	0.2
Header Pressure	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.2	-0.2	-0.1	-0.2	-0.2	-0.1	-0.1	-0.2
Differential Press.	-0.014	-0.005	-0.016	-0.018	-0.018	-0.017	-0.017	-0.003	-0.022	0.008	-0.016	-0.02	-0.014	-0.023
LFG Temperature	87	81	85	88	84	82	82	80	81	79	87	85	85	80
LFG Flow	0	0	0	0	0	0	0	0	0	0	0	0	0	0
% Methane	51.6	35.6	6.0	44.2	22.5	48.8	35.3	47.4	25.4	34.1	34.5	47.7	31.3	41
% Oxygen	0.0	0.0	0.2	0	1.5	0	0.1	0.4	0.1	0	0	0.1	0.1	0.1
% Carbon Dioxide	22.1	20.5	16.2	20.3	17.1	10.7	14.9	17.8	14.1	7.4	18.5	16.8	14.4	13.3
Valve Setting			Closed						Closed	Closed	Closed			
Other														
Other														

Overall Condition: ☑ Good ☐ Fair ☐ Poor ☐ Critical – Take Immediate Action

Other Notes:

GAS SYSTEM INSPECTION CHECKLIST
ELGIN LANDFILL SUPERFUND SITE
KANE COUNTY, ILLINOIS

INSPECTION TYPE: (Circle) (Quarterly)/Monthly **INSPECTION DATE:** 10/12/2011

Inspection Item
(check when complete)

☑ East LFG Extraction Well System (GWE 14 thru GWE19) Remember Close Sample Ports and Reattach Hoses.

Activity	GWE15	GWE16	GWE17	GWE18	GWE19
Well Static Pressure	0.1	0.0	0.0	0.0	0.0
Header Static Pressure	-0.9	-1.0	-1.0	-0.9	0.0
Differential Pressure	-0.07	-0.001	-0.031	-0.058	-0.2
LFG Temperature	79	78	80	75	84
LFG Flow	0	0	0	0	0
% Methane	40.7	15.1	16.2	29.4	37.8
% Oxygen	0.1	0.1	0	0.0	1.4
% Carbon Dioxide	15.3	9.2	15.5	12.6	20
Valve Setting					
Other					
Other					

Overall Condition: ☑ Good ☐ Fair ☐ Poor ☐ Critical – Take Immediate Action

☑ Cleanouts Located at LFG Wells GWE14, GWE19, and Three (3) Cleanouts Near KSE01.

Notes:

Overall Condition: ☑ Good ☐ Fair ☐ Poor ☐ Critical – Take Immediate Action

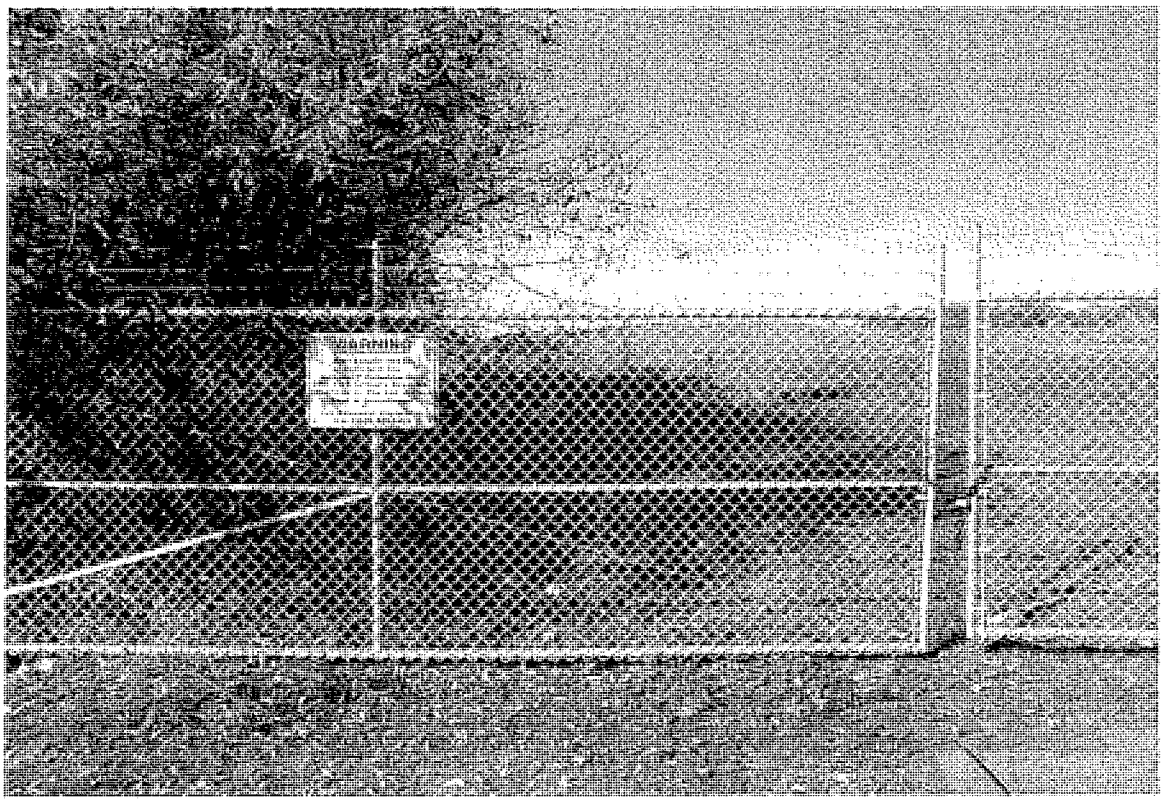
☑ LFG Probes, GPE01 Thru GPE05

Gas Monitoring: Y/N Y

Activity	GPE01	GPE02	GPE03	GPE04	GPE05
Probe Static Pressure	0.0	0.0	0.0	0.0	0.0
% Methane	0.0	0.0	0.0	0.0	0.0
Condition OK (Y)/N (Casing, Cap, Lock)	Y	Y	Y	Y	Y
Other					

Notes:

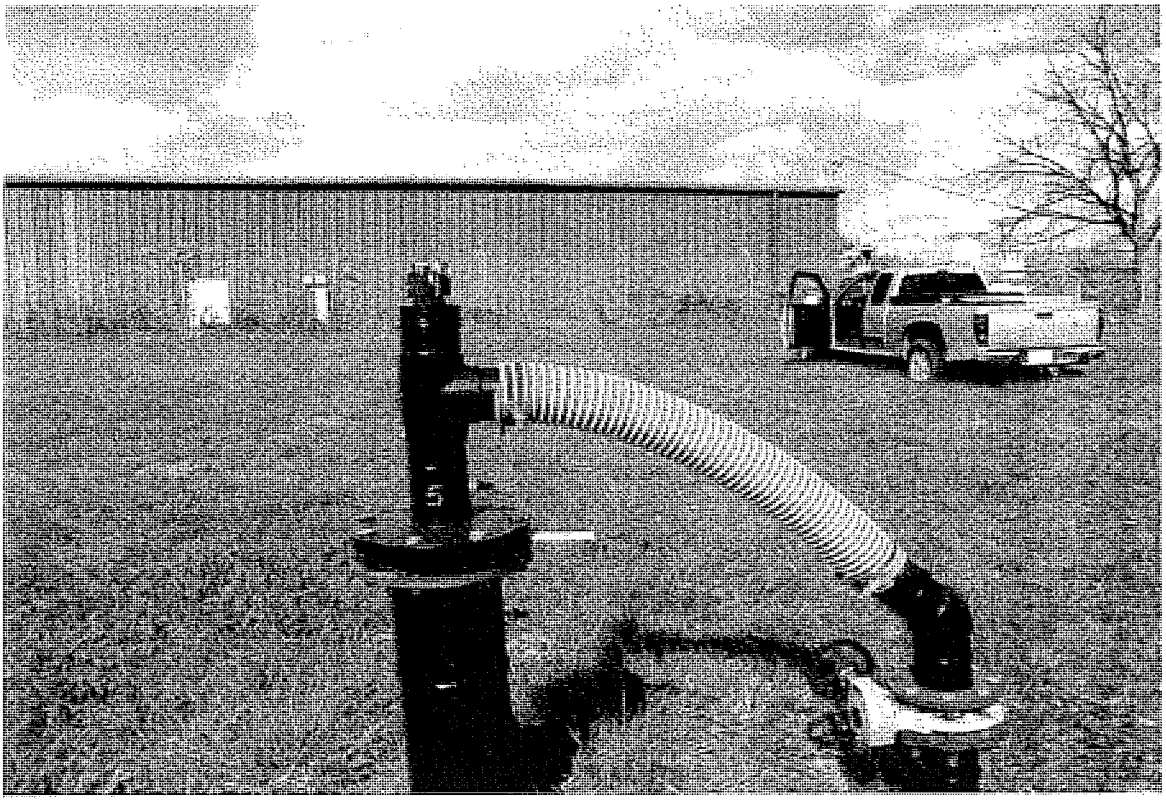
Overall Condition: ☑ Good ☐ Fair ☐ Poor ☐ Critical – Take Immediate Action



Photograph 1

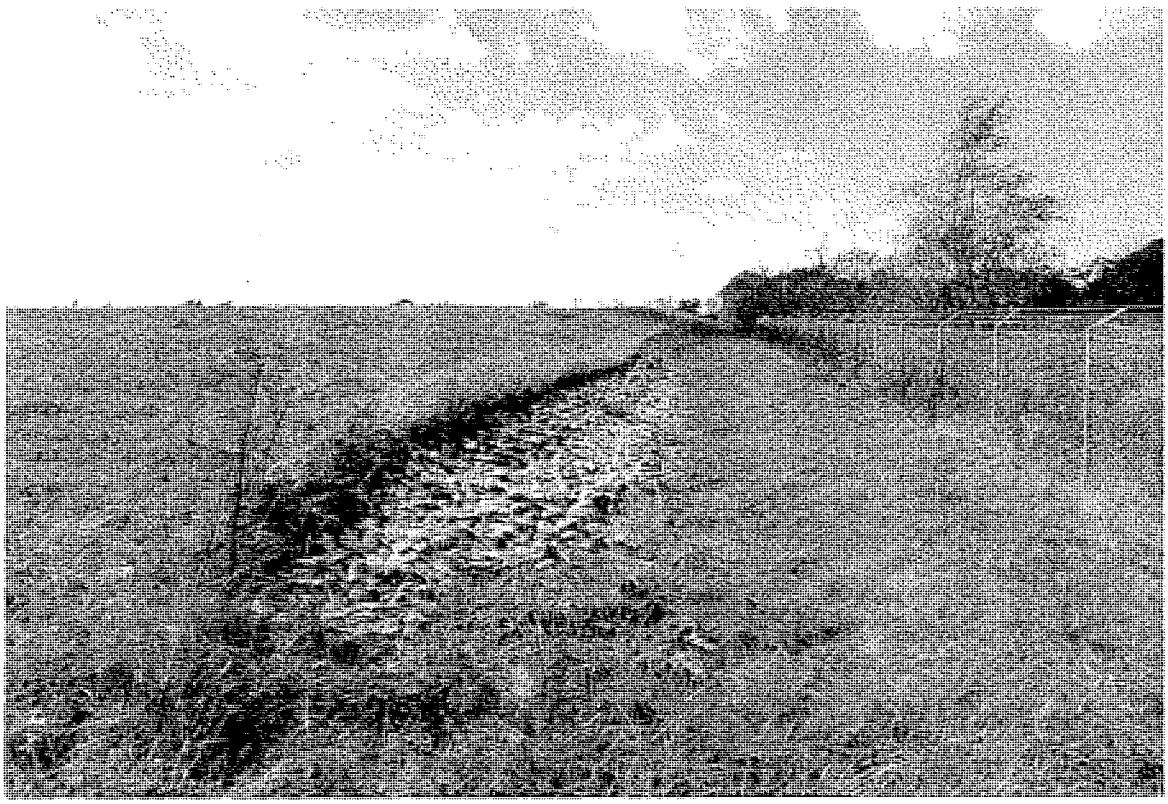
Photograph 2

Photograph 3

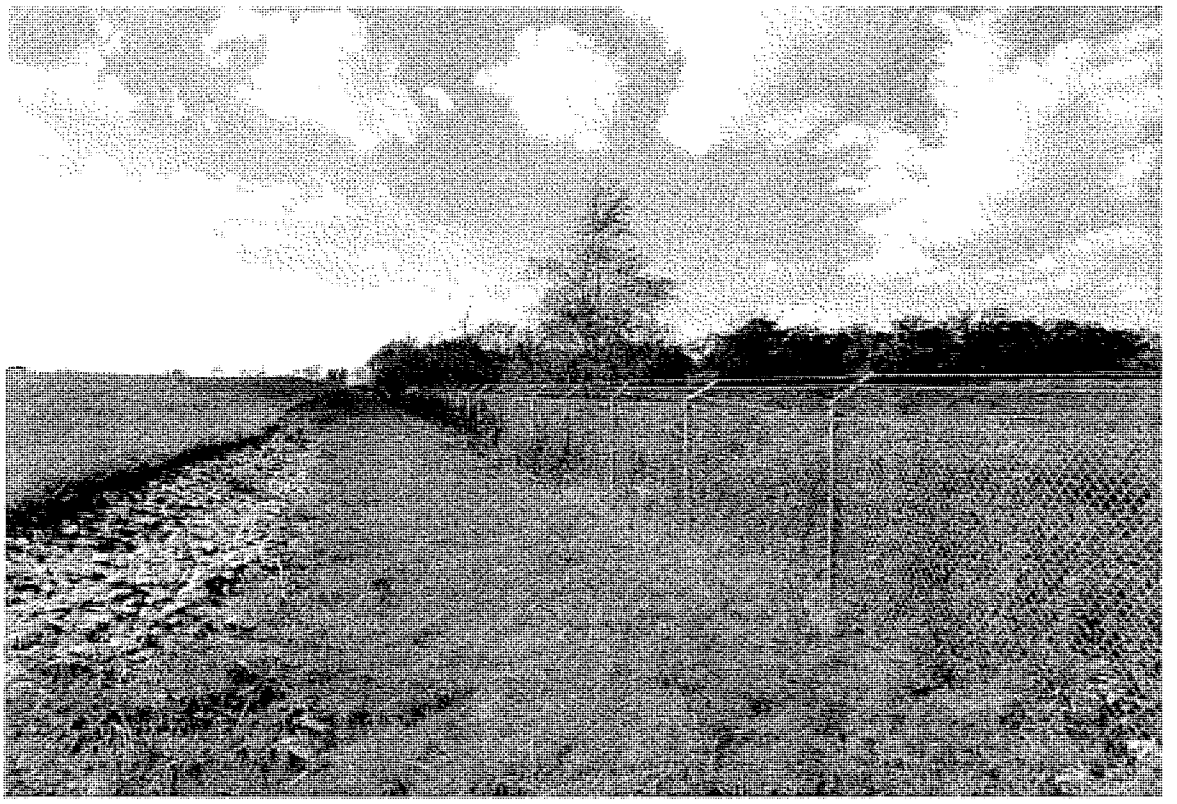


Photograph 4

Photograph 5



Photograph 6



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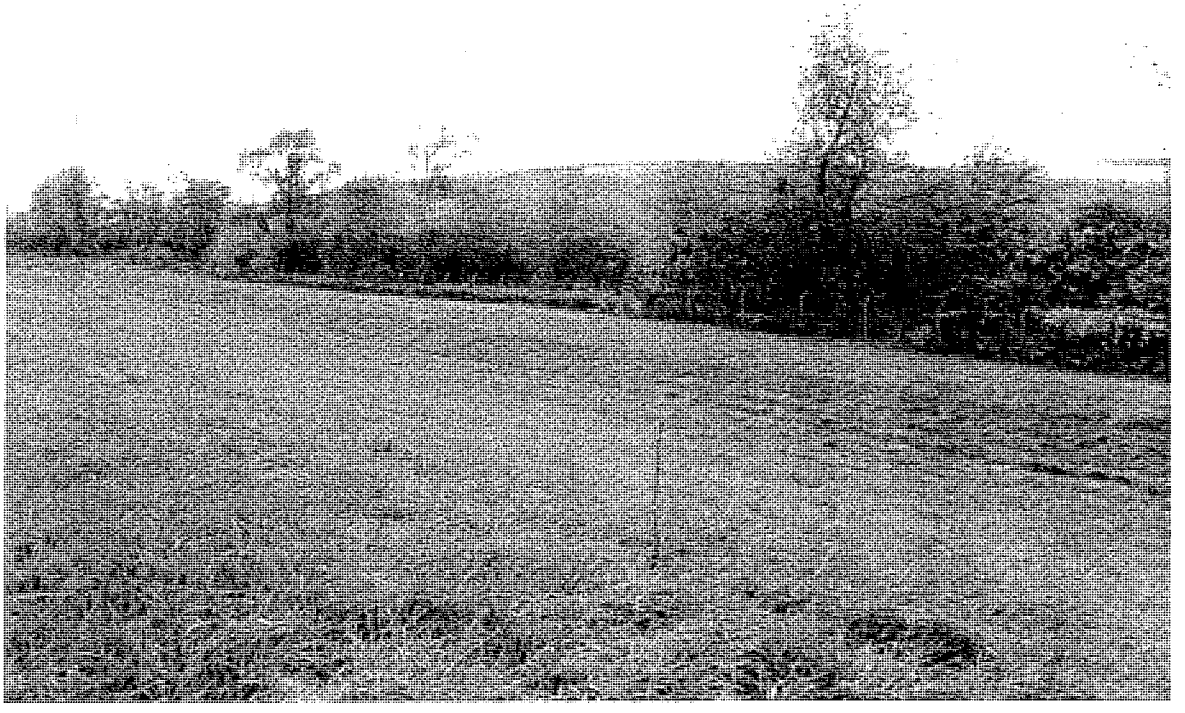
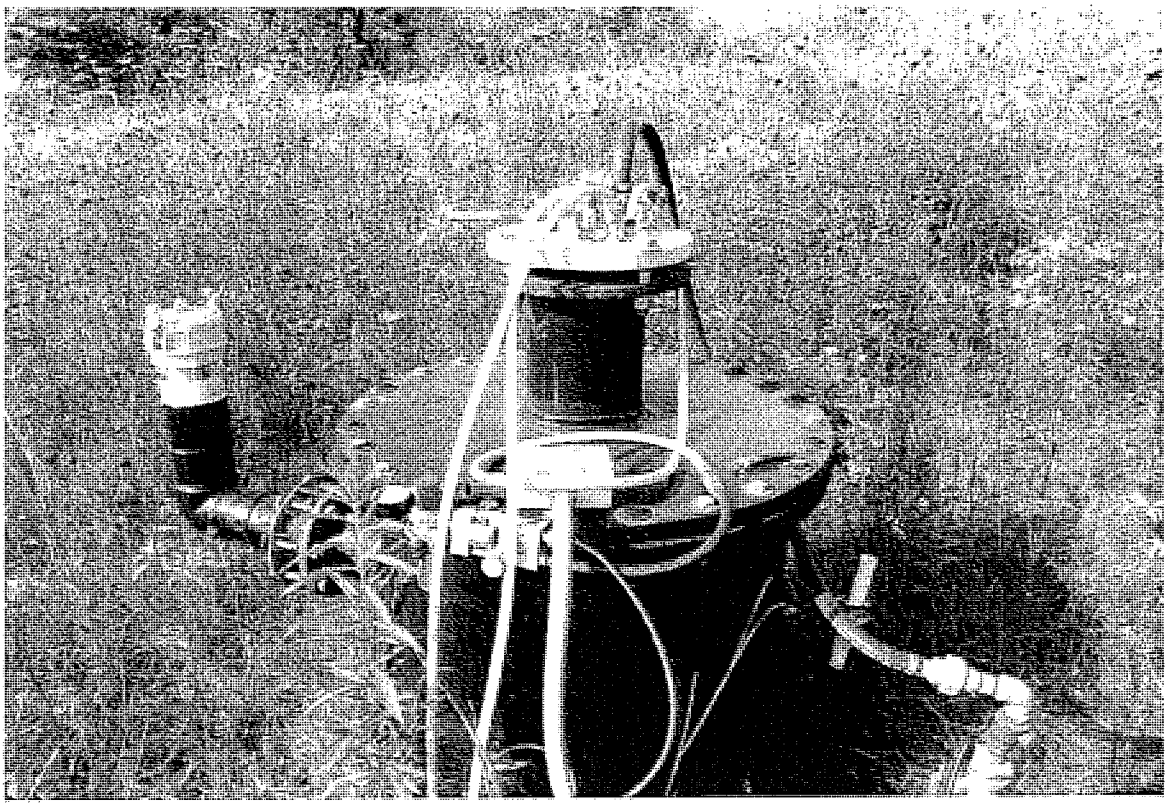


Photograph 8

Photograph 9



Photograph 10

Photograph 11

Photograph 12

Photograph 13

Daily Summary Report

Employee Name: Eric Eberle **Site Name:** Elgin **Date:** 10/12/11

Temperature: 75 Sunny

Subcontractor? No **Subcontractor Name:**

Time	Description of Work
4hours	Elgin Site visit O&M & gas

Equipment: Truck
FG5GA

Parts & Material

Quantity	*Parts*	*Quantity*	*Parts*
10	Bubbler tube caps		
3	1/4 barbed fittings		

Additional Personell

APPENDIX E

Summary Tables – 2011 Laboratory and Field Groundwater Monitoring Data

Appendix E
Tri-County Landfill
Shallow Monitoring Well Network Analytical Data

Well ID	Sample Date	Parameter	Result	Reporting Limit	Qualifier	Units	MCL	Class I ILGWQS
G135	6/20/2011	Alkalinity, Total	244	10.0		MG/L		
G135	6/20/2011	Chloride	21.7	1.0		MG/L		200
G135	6/20/2011	Nitrate	0.52	0.5		MG/L AS N	10	10
G135	6/20/2011	Nitrite	0.5	0.5	U	MG/L AS N	1	
G135	6/20/2011	Sulfate	41.1	1.0		MG/L		400
G135	6/20/2011	Sulfide	1000	1000	U	UG/L		
G135	6/20/2011	Total Dissolved Solids	332	10.0		MG/L		1200
G135	6/20/2011	Total Organic Carbon	4.1	1.0		MG/L		
G135	6/20/2011	Total Suspended Solids	4	4.0	U	MG/L		
MW1S	6/20/2011	Alkalinity, Total	365	10.0		MG/L		
MW1S	6/20/2011	Chloride	60.1	1.0		MG/L		200
MW1S	6/20/2011	Nitrate	0.5	0.5	U	MG/L AS N	10	10
MW1S	6/20/2011	Nitrite	0.5	0.5	U	MG/L AS N	1	
MW1S	6/20/2011	Sulfate	32.9	1.0		MG/L		400
MW1S	6/20/2011	Sulfide	1000	1000	U	UG/L		
MW1S	6/20/2011	Total Dissolved Solids	505	10.0		MG/L		1200
MW1S	6/20/2011	Total Organic Carbon	3.8	1.0		MG/L		
MW1S	6/20/2011	Total Suspended Solids	5.6	4.0		MG/L		
MW2SR	6/14/2011	Alkalinity, Total	443	10.0		MG/L		
MW2SR	6/14/2011	Chloride	36.7	1.0		MG/L		200
MW2SR	6/23/2011	Nitrate	6.82	0.5		MG/L AS N	10	10
MW2SR	6/23/2011	Nitrite	0.5	0.5	U	MG/L AS N	1	
MW2SR	6/14/2011	Sulfate	121	1.0		MG/L		400
MW2SR	6/14/2011	Sulfide	1000	1000	U	UG/L		
MW2SR	6/14/2011	Total Dissolved Solids	684	10.0		MG/L		1200
MW2SR	6/14/2011	Total Organic Carbon	1	1.0	U	MG/L		
MW2SR	6/14/2011	Total Suspended Solids	4	4.0	U	MG/L		
MW2SR	6/14/2011	Aluminum	0.06	0.060	U	MG/L		
MW2SR	6/14/2011	Antimony	0.007	0.0070	U	MG/L	6	6
MW2SR	6/14/2011	Arsenic	0.01	0.010	U	MG/L	0.01	0.05
MW2SR	6/14/2011	Barium	0.055	0.0050		MG/L	2	2
MW2SR	6/14/2011	Beryllium	0.001	0.0010	U	MG/L	0.004	0.004
MW2SR	6/14/2011	Cadmium	0.001	0.0010	U	MG/L	0.005	0.005
MW2SR	6/14/2011	Calcium	146	0.10		MG/L		
MW2SR	6/14/2011	Chromium	0.0055	0.0030		MG/L	0.1	0.1
MW2SR	6/14/2011	Cobalt	0.003	0.0030	U	MG/L		1
MW2SR	6/14/2011	Copper	0.004	0.0040	U	MG/L	1.3	0.65
MW2SR	6/14/2011	Iron	0.061	0.060		MG/L		5
MW2SR	6/14/2011	Lead	0.005	0.0050	U	MG/L	0.015	0.0075

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Tri-County Landfill
Shallow Monitoring Well Network Analytical Data

Well ID	Sample Date	Parameter	Result	Reporting Limit	Qualifier	Units	MCL	Class I ILGWQS
MW2SR	6/14/2011	Magnesium	55.5	0.050		MG/L		
MW2SR	6/14/2011	Manganese	0.071	0.0010		MG/L		0.15
MW2SR	6/14/2011	Mercury	0.0002	0.00020	U	MG/L	0.002	0.002
MW2SR	6/14/2011	Nickel	0.089	0.0040		MG/L		0.1
MW2SR	6/14/2011	Potassium	5	0.20		MG/L		
MW2SR	6/14/2011	Selenium	0.01	0.010	U	MG/L	0.05	0.05
MW2SR	6/14/2011	Silver	0.004	0.0040	U	MG/L		0.05
MW2SR	6/14/2011	Sodium	29.1	1.0		MG/L		
MW2SR	6/14/2011	Thallium	0.002	0.0020	U	MG/L	0.002	0.002
MW2SR	6/14/2011	Total Cyanide	0.02	0.020	U	MG/L	200	200
MW2SR	6/14/2011	Vanadium	0.003	0.0030	U	MG/L		
MW2SR	6/14/2011	Zinc	0.005	0.0050	U	MG/L		5
MW2SR	6/14/2011	1,1,1-Trichloroethane	1	1.0	U	UG/L	200	200
MW2SR	6/14/2011	1,1,2,2-Tetrachloroethane	1	1.0	U	UG/L		
MW2SR	6/14/2011	1,1,2-Trichloroethane	1	1.0	U	UG/L	5	5
MW2SR	6/14/2011	1,1-Dichloroethane	1	1.0	U	UG/L		
MW2SR	6/14/2011	1,1-Dichloroethene	1	1.0	U	UG/L	7	7
MW2SR	6/14/2011	1,2-Dichloroethane	1	1.0	U	UG/L	5	5
MW2SR	6/14/2011	1,2-Dichloropropane	1	1.0	U	UG/L	5	5
MW2SR	6/14/2011	2-Hexanone	10	10	U	UG/L		
MW2SR	6/14/2011	Acetone	10	10	U	UG/L		
MW2SR	6/14/2011	Benzene	1	1.0	U	UG/L	5	5
MW2SR	6/14/2011	Bromodichloromethane	1	1.0	U	UG/L		
MW2SR	6/14/2011	Bromoform	1	1.0	U	UG/L		
MW2SR	6/14/2011	Bromomethane	1	1.0	U	UG/L		
MW2SR	6/14/2011	Carbon disulfide	5	5.0	U	UG/L		
MW2SR	6/14/2011	Carbon tetrachloride	1	1.0	U	UG/L	5	5
MW2SR	6/14/2011	Chlorobenzene	1	1.0	U	UG/L	100	100
MW2SR	6/14/2011	Chloroethane	1	1.0	U	UG/L		
MW2SR	6/14/2011	Chloroform	1	1.0	U	UG/L		
MW2SR	6/14/2011	Chloromethane	1	1.0	U	UG/L		
MW2SR	6/14/2011	cis-1,2-Dichloroethene	1	1.0	U	UG/L	70	70
MW2SR	6/14/2011	cis-1,3-Dichloropropene	1	1.0	U	UG/L		
MW2SR	6/14/2011	Dibromochloromethane	1	1.0	U	UG/L		
MW2SR	6/14/2011	Ethylbenzene	1	1.0	U	UG/L	700	700
MW2SR	6/14/2011	Ketone, ethyl methyl	10	10	U	UG/L		
MW2SR	6/14/2011	methyl isobutyl ketone	10	10	U	UG/L		
MW2SR	6/14/2011	Methylene Chloride	2	2.0	U	UG/L	5	5
MW2SR	6/14/2011	Styrene	1	1.0	U	UG/L	100	100

Appendix E
Tri-County Landfill
Shallow Monitoring Well Network Analytical Data

Well ID	Sample Date	Parameter	Result	Reporting Limit	Qualifier	Units	MCL	Class I ILGWQS
MW2SR	6/14/2011	Tetrachloroethene	1	1.0	U	UG/L	5	5
MW2SR	6/14/2011	Toluene	1	1.0	U	UG/L	1000	1000
MW2SR	6/14/2011	trans-1,2-Dichloroethene	1	1.0	U	UG/L	100	100
MW2SR	6/14/2011	trans-1,3-Dichloropropene	1	1.0	U	UG/L		
MW2SR	6/14/2011	Trichloroethene	1	1.0	U	UG/L	5	5
MW2SR	6/14/2011	Vinyl chloride	1	1.0	U	UG/L	2	2
MW2SR	6/14/2011	Xylenes, Total	3	3.0	U	UG/L	10000	10000
MW5SR	6/15/2011	Alkalinity, Total	279	10.0		MG/L		
MW5SR	6/15/2011	Chloride	11.3	1.0		MG/L		200
MW5SR	6/15/2011	Nitrate	0.5	0.5	U	MG/L AS N	10	10
MW5SR	6/15/2011	Nitrite	0.5	0.5	U	MG/L AS N	1	
MW5SR	6/15/2011	Sulfate	23.4	1.0		MG/L		400
MW5SR	6/15/2011	Sulfide	1000	1000	U	UG/L		
MW5SR	6/15/2011	Total Dissolved Solids	303	10.0		MG/L		1200
MW5SR	6/15/2011	Total Organic Carbon	1	1.0	U	MG/L		
MW5SR	6/15/2011	Total Suspended Solids	16	4.0		MG/L		
MW5SR	6/15/2011	Aluminum	0.065	0.060		MG/L		
MW5SR	6/15/2011	Antimony	0.007	0.0070	U	MG/L	6	6
MW5SR	6/15/2011	Arsenic	0.01	0.010	U	MG/L	0.01	0.05
MW5SR	6/15/2011	Barium	0.07	0.0050		MG/L	2	2
MW5SR	6/15/2011	Beryllium	0.001	0.0010	U	MG/L	0.004	0.004
MW5SR	6/15/2011	Cadmium	0.001	0.0010	U	MG/L	0.005	0.005
MW5SR	6/15/2011	Calcium	75	0.10		MG/L		
MW5SR	6/15/2011	Chromium	0.003	0.0030	U	MG/L	0.1	0.1
MW5SR	6/15/2011	Cobalt	0.003	0.0030	U	MG/L		1
MW5SR	6/15/2011	Copper	0.004	0.0040	U	MG/L	1.3	0.65
MW5SR	**6/15/2011**	**Iron**	**10.3**	**0.060**		**MG/L**		**5**
MW5SR	6/15/2011	Lead	0.005	0.0050	U	MG/L	0.015	0.0075
MW5SR	6/15/2011	Magnesium	24.4	0.050		MG/L		
MW5SR	**6/15/2011**	**Manganese**	**0.42**	**0.0010**		**MG/L**		**0.15**
MW5SR	6/15/2011	Mercury	0.0002	0.00020	U	MG/L	0.002	0.002
MW5SR	6/15/2011	Nickel	0.004	0.0040	U	MG/L		0.1
MW5SR	6/15/2011	Potassium	2.9	0.20	B	MG/L		
MW5SR	6/15/2011	Selenium	0.01	0.010	U	MG/L	0.05	0.05
MW5SR	6/15/2011	Silver	0.004	0.0040	U	MG/L		0.05
MW5SR	6/15/2011	Sodium	17.8	1.0		MG/L		
MW5SR	6/15/2011	Thallium	0.002	0.0020	U	MG/L	0.002	0.002
MW5SR	6/15/2011	Total Cyanide	0.02	0.020	U	MG/L	200	200
MW5SR	6/15/2011	Vanadium	0.003	0.0030	U	MG/L		

Appendix E
Tri-County Landfill
Shallow Monitoring Well Network Analytical Data

Well ID	Sample Date	Parameter	Result	Reporting Limit	Qualifier	Units	MCL	Class I ILGWQS
MW5SR	6/15/2011	Zinc	0.005	0.0050	U	MG/L		5
MW5SR	6/15/2011	1,1,1-Trichloroethane	1	1.0	U	UG/L	200	200
MW5SR	6/15/2011	1,1,2,2-Tetrachloroethane	1	1.0	U	UG/L		
MW5SR	6/15/2011	1,1,2-Trichloroethane	1	1.0	U	UG/L	5	5
MW5SR	6/15/2011	1,1-Dichloroethane	1	1.0	U	UG/L		
MW5SR	6/15/2011	1,1-Dichloroethene	1	1.0	U	UG/L	7	7
MW5SR	6/15/2011	1,2-Dichloroethane	1	1.0	U	UG/L	5	5
MW5SR	6/15/2011	1,2-Dichloropropane	1	1.0	U	UG/L	5	5
MW5SR	6/15/2011	2-Hexanone	10	10	U	UG/L		
MW5SR	6/15/2011	Acetone	10	10	U	UG/L		
MW5SR	6/15/2011	Benzene	1	1.0	U	UG/L	5	5
MW5SR	6/15/2011	Bromodichloromethane	1	1.0	U	UG/L		
MW5SR	6/15/2011	Bromoform	1	1.0	U	UG/L		
MW5SR	6/15/2011	Bromomethane	1	1.0	U	UG/L		
MW5SR	6/15/2011	Carbon disulfide	5	5.0	U	UG/L		
MW5SR	6/15/2011	Carbon tetrachloride	1	1.0	U	UG/L	5	5
MW5SR	6/15/2011	Chlorobenzene	1	1.0	U	UG/L	100	100
MW5SR	6/15/2011	Chloroethane	1	1.0	U	UG/L		
MW5SR	6/15/2011	Chloroform	1	1.0	U	UG/L		
MW5SR	6/15/2011	Chloromethane	1	1.0	U	UG/L		
MW5SR	6/15/2011	cis-1,2-Dichloroethene	1	1.0	U	UG/L	70	70
MW5SR	6/15/2011	cis-1,3-Dichloropropene	1	1.0	U	UG/L		
MW5SR	6/15/2011	Dibromochloromethane	1	1.0	U	UG/L		
MW5SR	6/15/2011	Ethylbenzene	1	1.0	U	UG/L	700	700
MW5SR	6/15/2011	Ketone, ethyl methyl	10	10	U	UG/L		
MW5SR	6/15/2011	methyl isobutyl ketone	10	10	U	UG/L		
MW5SR	6/15/2011	Methylene Chloride	2	2.0	U	UG/L	5	5
MW5SR	6/15/2011	Styrene	1	1.0	U	UG/L	100	100
MW5SR	6/15/2011	Tetrachloroethene	1	1.0	U	UG/L	5	5
MW5SR	6/15/2011	Toluene	1	1.0	U	UG/L	1000	1000
MW5SR	6/15/2011	trans-1,2-Dichloroethene	1	1.0	U	UG/L	100	100
MW5SR	6/15/2011	trans-1,3-Dichloropropene	1	1.0	U	UG/L		
MW5SR	6/15/2011	Trichloroethene	1	1.0	U	UG/L	5	5
MW5SR	6/15/2011	Vinyl chloride	1	1.0	U	UG/L	2	2
MW5SR	6/15/2011	Xylenes, Total	3	3.0	U	UG/L	10000	10000
MW6S	6/20/2011	Alkalinity, Total	516	10.0		MG/L		
MW6S	6/20/2011	Chloride	48	1.0		MG/L		200
MW6S	6/20/2011	Nitrate	0.5	0.5	U	MG/L AS N	10	10
MW6S	6/20/2011	Nitrite	0.5	0.5	U	MG/L AS N	1	

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MW6S	6/20/2011	Sulfate	10.2	1.0		MG/L		400
MW6S	6/20/2011	Sulfide	1000	1000	U	UG/L		
MW6S	6/20/2011	Total Dissolved Solids	765	10.0		MG/L		1200
MW6S	6/20/2011	Total Organic Carbon	6.6	1.0		MG/L		
MW6S	6/20/2011	Total Suspended Solids	14.4	4.0		MG/L		
MW6S	6/20/2011	Aluminum	0.06	0.060	U	MG/L		
MW6S	6/20/2011	Antimony	0.007	0.0070	U	MG/L	6	6
MW6S	*6/20/2011*	*Arsenic*	*0.014*	*0.010*		*MG/L*	*0.01*	*0.05*
MW6S	6/20/2011	Barium	0.16	0.0050		MG/L	2	2
MW6S	6/20/2011	Beryllium	0.001	0.0010	U	MG/L	0.004	0.004
MW6S	6/20/2011	Cadmium	0.001	0.0010	U	MG/L	0.005	0.005
MW6S	6/20/2011	Calcium	125	0.10		MG/L		
MW6S	6/20/2011	Chromium	0.003	0.0030	U	MG/L	0.1	0.1
MW6S	6/20/2011	Cobalt	0.003	0.0030	U	MG/L		1
MW6S	6/20/2011	Copper	0.004	0.0040	U	MG/L	1.3	0.65
MW6S	**6/20/2011**	**Iron**	**12.2**	**0.060**		**MG/L**		**5**
MW6S	6/20/2011	Lead	0.005	0.0050	U	MG/L	0.015	0.0075
MW6S	6/20/2011	Magnesium	52.4	0.050		MG/L		
MW6S	**6/20/2011**	**Manganese**	**0.57**	**0.0010**		**MG/L**		**0.15**
MW6S	6/20/2011	Mercury	0.0002	0.00020	U	MG/L	0.002	0.002
MW6S	6/20/2011	Nickel	0.004	0.0040	U	MG/L		0.1
MW6S	6/20/2011	Potassium	11.7	0.20		MG/L		
MW6S	6/20/2011	Selenium	0.01	0.010	U	MG/L	0.05	0.05
MW6S	6/20/2011	Silver	0.004	0.0040	U	MG/L		0.05
MW6S	6/20/2011	Sodium	68.5	1.0		MG/L		
MW6S	6/20/2011	Thallium	0.002	0.0020	U	MG/L	0.002	0.002
MW6S	6/20/2011	Total Cyanide	0.02	0.020	U	MG/L	200	200
MW6S	6/20/2011	Vanadium	0.003	0.0030	U	MG/L		
MW6S	6/20/2011	Zinc	0.005	0.0050	U	MG/L		5
MW6S	6/20/2011	1,2,4-Trichlorobenzene	10	10	U	UG/L	70	70
MW6S	6/20/2011	1,2-Dichlorobenzene	10	10	U	UG/L	600	600
MW6S	6/20/2011	1,3-Dichlorobenzene	10	10	U	UG/L		
MW6S	6/20/2011	1,4-Dichlorobenzene	10	10	U	UG/L	75	75
MW6S	6/20/2011	2,2'-Oxybis(1-chloropropane)	10	10	U ^	UG/L		
MW6S	6/20/2011	2,4,5-Trichlorophenol	50	50	U	UG/L		
MW6S	6/20/2011	2,4,6-Trichlorophenol	10	10	U	UG/L		
MW6S	6/20/2011	2,4-Dichlorophenol	10	10	U	UG/L		
MW6S	6/20/2011	2,4-Dimethylphenol	10	10	U	UG/L		
MW6S	6/20/2011	2,4-Dinitrophenol	50	50	U	UG/L		

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Well ID	Sample Date	Parameter	Result	Reporting Limit	Qualifier	Units	MCL	Class I ILGWQS
MW6S	6/20/2011	2,4-Dinitrotoluene	10	10	U	UG/L		
MW6S	6/20/2011	2,6-Dinitrotoluene	10	10	U	UG/L		
MW6S	6/20/2011	2-Chloronaphthalene	10	10	U	UG/L		
MW6S	6/20/2011	2-Chlorophenol	10	10	U	UG/L		
MW6S	6/20/2011	2-Methylnaphthalene	10	10	U	UG/L		
MW6S	6/20/2011	2-Nitroaniline	50	50	U	UG/L		
MW6S	6/20/2011	2-Nitrophenol	10	10	U	UG/L		
MW6S	6/20/2011	3,3'-Dichlorobenzidine	10	10	U	UG/L		
MW6S	6/20/2011	3-Nitroaniline	50	50	U	UG/L		
MW6S	6/20/2011	4-Bromophenyl phenyl ether	10	10	U	UG/L		
MW6S	6/20/2011	4-Chloroaniline	10	10	U	UG/L		
MW6S	6/20/2011	4-Chlorophenyl phenyl ether	10	10	U	UG/L		
MW6S	6/20/2011	4-Nitroaniline	50	50	U	UG/L		
MW6S	6/20/2011	4-Nitrophenol	50	50	U	UG/L		
MW6S	6/20/2011	Acenaphthene	10	10	U	UG/L		
MW6S	6/20/2011	Acenaphthylene	10	10	U	UG/L		
MW6S	6/20/2011	Anthracene	10	10	U	UG/L		
MW6S	6/20/2011	Benzo(a)anthracene	10	10	U	UG/L		
MW6S	6/20/2011	Benzo(a)pyrene	10	10	U	UG/L	0.2	0.2
MW6S	6/20/2011	Benzo(b)fluoranthene	10	10	U	UG/L		
MW6S	6/20/2011	Benzo(ghi)perylene	10	10	U	UG/L		
MW6S	6/20/2011	Benzo(k)fluoranthene	10	10	U	UG/L		
MW6S	6/20/2011	Bis(2-chloroethoxy)methane	10	10	U	UG/L		
MW6S	6/20/2011	Bis(2-chloroethyl)ether	10	10	U	UG/L		
MW6S	6/20/2011	Bis(2-ethylhexyl) phthalate	10	10	U	UG/L	6	6
MW6S	6/20/2011	Butyl benzyl phthalate	10	10	U	UG/L		
MW6S	6/20/2011	Carbazole	10	10	U	UG/L		
MW6S	6/20/2011	Chloro-m-cresol, p-	10	10	U	UG/L		
MW6S	6/20/2011	Chrysene	10	10	U	UG/L		
MW6S	6/20/2011	Cresol, o-	10	10	U	UG/L		
MW6S	6/20/2011	Cresol, p-	10	10	U	UG/L		
MW6S	6/20/2011	Dibenzo(a,h)anthracene	10	10	U	UG/L		
MW6S	6/20/2011	Dibenzofuran	10	10	U	UG/L		
MW6S	6/20/2011	Diethyl phthalate	10	10	U	UG/L		
MW6S	6/20/2011	Dimethyl phthalate	10	10	U	UG/L		
MW6S	6/20/2011	Di-n-butyl phthalate	10	10	U	UG/L		
MW6S	6/20/2011	Di-n-octyl phthalate	10	10	U	UG/L		
MW6S	6/20/2011	Fluoranthene	10	10	U	UG/L		
MW6S	6/20/2011	Fluorene	10	10	U	UG/L		

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MW6S	6/20/2011	Hexachlorobenzene	10	10	U	UG/L	1	
MW6S	6/20/2011	Hexachlorobutadiene	40	40	U	UG/L		
MW6S	6/20/2011	Hexachlorocyclopentadiene	24	24	U	UG/L	50	50
MW6S	6/20/2011	Hexachloroethane	10	10	U	UG/L		
MW6S	6/20/2011	Indeno(1,2,3-cd)pyrene	10	10	U	UG/L		
MW6S	6/20/2011	Isophorone	10	10	U	UG/L		
MW6S	6/20/2011	Naphthalene	10	10	U	UG/L		
MW6S	6/20/2011	Nitrobenzene	10	10	U	UG/L		
MW6S	6/20/2011	N-Nitrosodi-n-propylamine	10	10	U	UG/L		
MW6S	6/20/2011	N-Nitrosodiphenylamine	10	10	U	UG/L		
MW6S	6/20/2011	o-Cresol, 4,6-dinitro-	50	50	U	UG/L		
MW6S	6/20/2011	Pentachlorophenol	50	50	U	UG/L	1	1
MW6S	6/20/2011	Phenanthrene	10	10	U	UG/L		
MW6S	6/20/2011	Phenol	10	10	U	UG/L		100
MW6S	6/20/2011	Pyrene	10	10	U	UG/L		
MW6S	6/20/2011	1,1,1-Trichloroethane	1	1.0	U	UG/L	200	200
MW6S	6/20/2011	1,1,2,2-Tetrachloroethane	1	1.0	U	UG/L		
MW6S	6/20/2011	1,1,2-Trichloroethane	1	1.0	U	UG/L	5	5
MW6S	6/20/2011	1,1-Dichloroethane	1	1.0	U	UG/L		
MW6S	6/20/2011	1,1-Dichloroethene	1	1.0	U	UG/L	7	7
MW6S	6/20/2011	1,2-Dichloroethane	1	1.0	U	UG/L	5	5
MW6S	6/20/2011	1,2-Dichloropropane	1	1.0	U	UG/L	5	5
MW6S	6/20/2011	2-Hexanone	10	10	U	UG/L		
MW6S	6/20/2011	Acetone	10	10	U	UG/L		
MW6S	6/20/2011	Benzene	1	1.0	U	UG/L	5	5
MW6S	6/20/2011	Bromodichloromethane	1	1.0	U	UG/L		
MW6S	6/20/2011	Bromoform	1	1.0	U	UG/L		
MW6S	6/20/2011	Bromomethane	1	1.0	U	UG/L		
MW6S	6/20/2011	Carbon disulfide	5	5.0	U	UG/L		
MW6S	6/20/2011	Carbon tetrachloride	1	1.0	U	UG/L	5	5
MW6S	6/20/2011	Chlorobenzene	1	1.0	U	UG/L	100	100
MW6S	6/20/2011	Chloroethane	2.1	1.0		UG/L		
MW6S	6/20/2011	Chloroform	1	1.0	U	UG/L		
MW6S	6/20/2011	Chloromethane	1	1.0	U	UG/L		
MW6S	6/20/2011	cis-1,2-Dichloroethene	1	1.0	U	UG/L	70	70
MW6S	6/20/2011	cis-1,3-Dichloropropene	1	1.0	U	UG/L		
MW6S	6/20/2011	Dibromochloromethane	1	1.0	U	UG/L		
MW6S	6/20/2011	Ethylbenzene	1	1.0	U	UG/L	700	700
MW6S	6/20/2011	Ketone, ethyl methyl	10	10	U	UG/L		

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Well ID	Sample Date	Parameter	Result	Reporting Limit	Qualifier	Units	MCL	Class I ILGWQS
MW6S	6/20/2011	methyl isobutyl ketone	10	10	U	UG/L		
MW6S	6/20/2011	Methylene Chloride	2	2.0	U	UG/L	5	5
MW6S	6/20/2011	Styrene	1	1.0	U	UG/L	100	100
MW6S	6/20/2011	Tetrachloroethene	1	1.0	U	UG/L	5	5
MW6S	6/20/2011	Toluene	1	1.0	U	UG/L	1000	1000
MW6S	6/20/2011	trans-1,2-Dichloroethene	1	1.0	U	UG/L	100	100
MW6S	6/20/2011	trans-1,3-Dichloropropene	1	1.0	U	UG/L		
MW6S	6/20/2011	Trichloroethene	1	1.0	U	UG/L	5	5
MW6S	6/20/2011	Vinyl chloride	1	1.0	U	UG/L	2	2
MW6S	6/20/2011	Xylenes, Total	3	3.0	U	UG/L	10000	10000
MW6SRE	6/20/2011	1,2,4-Trichlorobenzene	10	10	U H	UG/L	70	70
MW6SRE	6/20/2011	1,2-Dichlorobenzene	10	10	U H	UG/L	600	600
MW6SRE	6/20/2011	1,3-Dichlorobenzene	10	10	U H	UG/L		
MW6SRE	6/20/2011	1,4-Dichlorobenzene	10	10	U H	UG/L	75	75
MW6SRE	6/20/2011	2,2'-Oxybis(1-chloropropane)	10	10	U H ^ *	UG/L		
MW6SRE	6/20/2011	2,4,5-Trichlorophenol	50	50	U H	UG/L		
MW6SRE	6/20/2011	2,4,6-Trichlorophenol	10	10	U H	UG/L		
MW6SRE	6/20/2011	2,4-Dichlorophenol	10	10	U H	UG/L		
MW6SRE	6/20/2011	2,4-Dimethylphenol	10	10	U H	UG/L		
MW6SRE	6/20/2011	2,4-Dinitrophenol	50	50	U H	UG/L		
MW6SRE	6/20/2011	2,4-Dinitrotoluene	10	10	U H	UG/L		
MW6SRE	6/20/2011	2,6-Dinitrotoluene	10	10	U H	UG/L		
MW6SRE	6/20/2011	2-Chloronaphthalene	10	10	U H	UG/L		
MW6SRE	6/20/2011	2-Chlorophenol	10	10	U H	UG/L		
MW6SRE	6/20/2011	2-Methylnaphthalene	10	10	U H	UG/L		
MW6SRE	6/20/2011	2-Nitroaniline	50	50	U H	UG/L		
MW6SRE	6/20/2011	2-Nitrophenol	10	10	U H	UG/L		
MW6SRE	6/20/2011	3,3'-Dichlorobenzidine	10	10	U H	UG/L		
MW6SRE	6/20/2011	3-Nitroaniline	50	50	U H	UG/L		
MW6SRE	6/20/2011	4-Bromophenyl phenyl ether	10	10	U H	UG/L		
MW6SRE	6/20/2011	4-Chloroaniline	10	10	U H	UG/L		
MW6SRE	6/20/2011	4-Chlorophenyl phenyl ether	10	10	U H	UG/L		
MW6SRE	6/20/2011	4-Nitroaniline	50	50	U H	UG/L		
MW6SRE	6/20/2011	4-Nitrophenol	50	50	U H	UG/L		
MW6SRE	6/20/2011	Acenaphthene	10	10	U H	UG/L		
MW6SRE	6/20/2011	Acenaphthylene	10	10	U H	UG/L		
MW6SRE	6/20/2011	Anthracene	10	10	U H	UG/L		
MW6SRE	6/20/2011	Benzo(a)anthracene	10	10	U H	UG/L		
MW6SRE	6/20/2011	Benzo(a)pyrene	10	10	U H	UG/L	0.2	0.2

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MW6SRE	6/20/2011	Benzo(b)fluoranthene	10	10	U H	UG/L		
MW6SRE	6/20/2011	Benzo(ghi)perylene	10	10	U H	UG/L		
MW6SRE	6/20/2011	Benzo(k)fluoranthene	10	10	U H	UG/L		
MW6SRE	6/20/2011	Bis(2-chloroethoxy)methane	10	10	U H	UG/L		
MW6SRE	6/20/2011	Bis(2-chloroethyl)ether	10	10	U H	UG/L		
MW6SRE	6/20/2011	Bis(2-ethylhexyl) phthalate	10	10	U H	UG/L	6	6
MW6SRE	6/20/2011	Butyl benzyl phthalate	10	10	U H	UG/L		
MW6SRE	6/20/2011	Carbazole	10	10	U H	UG/L		
MW6SRE	6/20/2011	Chloro-m-cresol, p-	10	10	U H	UG/L		
MW6SRE	6/20/2011	Chrysene	10	10	U H	UG/L		
MW6SRE	6/20/2011	Cresol, o-	10	10	U H	UG/L		
MW6SRE	6/20/2011	Cresol, p-	10	10	U H	UG/L		
MW6SRE	6/20/2011	Dibenzo(a,h)anthracene	10	10	U H	UG/L		
MW6SRE	6/20/2011	Dibenzofuran	10	10	U H	UG/L		
MW6SRE	6/20/2011	Diethyl phthalate	10	10	U H	UG/L		
MW6SRE	6/20/2011	Dimethyl phthalate	10	10	U H	UG/L		
MW6SRE	6/20/2011	Di-n-butyl phthalate	10	10	U H	UG/L		
MW6SRE	6/20/2011	Di-n-octyl phthalate	10	10	U H	UG/L		
MW6SRE	6/20/2011	Fluoranthene	10	10	U H	UG/L		
MW6SRE	6/20/2011	Fluorene	10	10	U H	UG/L		
MW6SRE	6/20/2011	Hexachlorobenzene	10	10	U H	UG/L	1	
MW6SRE	6/20/2011	Hexachlorobutadiene	40	40	U H	UG/L		
MW6SRE	6/20/2011	Hexachlorocyclopentadiene	24	24	U H	UG/L	50	50
MW6SRE	6/20/2011	Hexachloroethane	10	10	U H	UG/L		
MW6SRE	6/20/2011	Indeno(1,2,3-cd)pyrene	10	10	U H	UG/L		
MW6SRE	6/20/2011	Isophorone	10	10	U H	UG/L		
MW6SRE	6/20/2011	Naphthalene	10	10	U H	UG/L		
MW6SRE	6/20/2011	Nitrobenzene	10	10	U H	UG/L		
MW6SRE	6/20/2011	N-Nitrosodi-n-propylamine	10	10	U H	UG/L		
MW6SRE	6/20/2011	N-Nitrosodiphenylamine	10	10	U H	UG/L		
MW6SRE	6/20/2011	o-Cresol, 4,6-dinitro-	50	50	U H	UG/L		
MW6SRE	6/20/2011	Pentachlorophenol	50	50	U H	UG/L	1	1
MW6SRE	6/20/2011	Phenanthrene	10	10	U H	UG/L		
MW6SRE	6/20/2011	Phenol	10	10	U H	UG/L		100
MW6SRE	6/20/2011	Pyrene	10	10	U H	UG/L		
MW10S	6/15/2011	Alkalinity, Total	298	10.0		MG/L		
MW10S	6/15/2011	Chloride	13.8	1.0		MG/L		200
MW10S	6/15/2011	Nitrate	0.5	0.5	U	MG/L AS N	10	10
MW10S	6/15/2011	Nitrite	0.5	0.5	U	MG/L AS N	1	

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MW10S	6/15/2011	Sulfate	29.5	1.0		MG/L		400
MW10S	6/15/2011	Sulfide	1000	1000	U	UG/L		
MW10S	6/15/2011	Total Dissolved Solids	490	10.0		MG/L		1200
MW10S	6/15/2011	Total Organic Carbon	1	1.0	U	MG/L		
MW10S	6/15/2011	Total Suspended Solids	4	4.0	U	MG/L		
MW10S	6/15/2011	Aluminum	0.095	0.060		MG/L		
MW10S	6/15/2011	Antimony	0.007	0.0070	U	MG/L	6	6
MW10S	6/15/2011	Arsenic	0.01	0.010	U	MG/L	0.01	0.05
MW10S	6/15/2011	Barium	0.047	0.0050		MG/L	2	2
MW10S	6/15/2011	Beryllium	0.001	0.0010	U	MG/L	0.004	0.004
MW10S	6/15/2011	Cadmium	0.001	0.0010	U	MG/L	0.005	0.005
MW10S	6/15/2011	Calcium	92.5	0.10		MG/L		
MW10S	6/15/2011	Chromium	0.003	0.0030	U	MG/L	0.1	0.1
MW10S	6/15/2011	Cobalt	0.003	0.0030	U	MG/L		1
MW10S	6/15/2011	Copper	0.004	0.0040	U	MG/L	1.3	0.65
MW10S	6/15/2011	Iron	0.21	0.060		MG/L		5
MW10S	6/15/2011	Lead	0.005	0.0050	U	MG/L	0.015	0.0075
MW10S	6/15/2011	Magnesium	45.2	0.050		MG/L		
MW10S	6/15/2011	Manganese	0.03	0.0010		MG/L		0.15
MW10S	6/15/2011	Mercury	0.0002	0.00020	U	MG/L	0.002	0.002
MW10S	6/15/2011	Nickel	0.004	0.0040	U	MG/L		0.1
MW10S	6/15/2011	Potassium	1.2	0.20	B	MG/L		
MW10S	6/15/2011	Selenium	0.01	0.010	U	MG/L	0.05	0.05
MW10S	6/15/2011	Silver	0.004	0.0040	U	MG/L		0.05
MW10S	6/15/2011	Sodium	7.4	1.0		MG/L		
MW10S	6/15/2011	Thallium	0.002	0.0020	U	MG/L	0.002	0.002
MW10S	6/15/2011	Total Cyanide	0.02	0.020	U	MG/L	200	200
MW10S	6/15/2011	Vanadium	0.003	0.0030	U	MG/L		
MW10S	6/15/2011	Zinc	0.005	0.0050	U	MG/L		5
MW10S	6/15/2011	1,1,1-Trichloroethane	1	1.0	U	UG/L	200	200
MW10S	6/15/2011	1,1,2,2-Tetrachloroethane	1	1.0	U	UG/L		
MW10S	6/15/2011	1,1,2-Trichloroethane	1	1.0	U	UG/L	5	5
MW10S	6/15/2011	1,1-Dichloroethane	1	1.0	U	UG/L		
MW10S	6/15/2011	1,1-Dichloroethene	1	1.0	U	UG/L	7	7
MW10S	6/15/2011	1,2-Dichloroethane	1	1.0	U	UG/L	5	5
MW10S	6/15/2011	1,2-Dichloropropane	1	1.0	U	UG/L	5	5
MW10S	6/15/2011	2-Hexanone	10	10	U	UG/L		
MW10S	6/15/2011	Acetone	10	10	U	UG/L		
MW10S	6/15/2011	Benzene	1	1.0	U	UG/L	5	5

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Well ID	Sample Date	Parameter	Result	Reporting Limit	Qualifier	Units	MCL	Class I ILGWQS
MW10S	6/15/2011	Bromodichloromethane	1	1.0	U	UG/L		
MW10S	6/15/2011	Bromoform	1	1.0	U	UG/L		
MW10S	6/15/2011	Bromomethane	1	1.0	U	UG/L		
MW10S	6/15/2011	Carbon disulfide	5	5.0	U	UG/L		
MW10S	6/15/2011	Carbon tetrachloride	1	1.0	U	UG/L	5	5
MW10S	6/15/2011	Chlorobenzene	1	1.0	U	UG/L	100	100
MW10S	6/15/2011	Chloroethane	1	1.0	U	UG/L		
MW10S	6/15/2011	Chloroform	1	1.0	U	UG/L		
MW10S	6/15/2011	Chloromethane	1	1.0	U	UG/L		
MW10S	6/15/2011	cis-1,2-Dichloroethene	1	1.0	U	UG/L	70	70
MW10S	6/15/2011	cis-1,3-Dichloropropene	1	1.0	U	UG/L		
MW10S	6/15/2011	Dibromochloromethane	1	1.0	U	UG/L		
MW10S	6/15/2011	Ethylbenzene	1	1.0	U	UG/L	700	700
MW10S	6/15/2011	Ketone, ethyl methyl	10	10	U	UG/L		
MW10S	6/15/2011	methyl isobutyl ketone	10	10	U	UG/L		
MW10S	6/15/2011	Methylene Chloride	2	2.0	U	UG/L	5	5
MW10S	6/15/2011	Styrene	1	1.0	U	UG/L	100	100
MW10S	6/15/2011	Tetrachloroethene	1	1.0	U	UG/L	5	5
MW10S	6/15/2011	Toluene	1	1.0	U	UG/L	1000	1000
MW10S	6/15/2011	trans-1,2-Dichloroethene	1	1.0	U	UG/L	100	100
MW10S	6/15/2011	trans-1,3-Dichloropropene	1	1.0	U	UG/L		
MW10S	6/15/2011	Trichloroethene	1	1.0	U	UG/L	5	5
MW10S	6/15/2011	Vinyl chloride	1	1.0	U	UG/L	2	2
MW10S	6/15/2011	Xylenes, Total	3	3.0	U	UG/L	10000	10000
MW12SR	6/17/2011	Alkalinity, Total	274	10.0		MG/L		
MW12SR	6/17/2011	Chloride	3.3	1.0		MG/L		200
MW12SR	6/17/2011	Nitrate	0.5	0.5	U	MG/L AS N	10	10
MW12SR	6/17/2011	Nitrite	0.5	0.5	U	MG/L AS N	1	
MW12SR	6/17/2011	Sulfate	21.8	1.0		MG/L		400
MW12SR	6/17/2011	Sulfide	1000	1000	U	UG/L		
MW12SR	6/17/2011	Total Dissolved Solids	317	10.0		MG/L		1200
MW12SR	6/17/2011	Total Organic Carbon	3.4	1.0		MG/L		
MW12SR	6/17/2011	Total Suspended Solids	4	4.0	U	MG/L		
MW12SR	6/17/2011	Aluminum	0.06	0.060	U	MG/L		
MW12SR	6/17/2011	Antimony	0.007	0.0070	U	MG/L	6	6
MW12SR	*6/17/2011*	*Arsenic*	*0.013*	*0.010*		*MG/L*	*0.01*	*0.05*
MW12SR	6/17/2011	Barium	0.057	0.0050		MG/L	2	2
MW12SR	6/17/2011	Beryllium	0.001	0.0010	U	MG/L	0.004	0.004
MW12SR	6/17/2011	Cadmium	0.001	0.0010	U	MG/L	0.005	0.005

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Well ID	Sample Date	Parameter	Result	Reporting Limit	Qualifier	Units	MCL	Class I ILGWQS
MW12SR	6/17/2011	Calcium	72.2	0.10		MG/L		
MW12SR	6/17/2011	Chromium	0.003	0.0030	U	MG/L	0.1	0.1
MW12SR	6/17/2011	Cobalt	0.003	0.0030	U	MG/L		1
MW12SR	6/17/2011	Copper	0.004	0.0040	U	MG/L	1.3	0.65
MW12SR	6/17/2011	Iron	2.7	0.060		MG/L		5
MW12SR	6/17/2011	Lead	0.005	0.0050	U	MG/L	0.015	0.0075
MW12SR	6/17/2011	Magnesium	24.5	0.050		MG/L		
MW12SR	**6/17/2011**	**Manganese**	**0.33**	**0.0010**		**MG/L**		**0.15**
MW12SR	6/17/2011	Mercury	0.0002	0.00020	U	MG/L	0.002	0.002
MW12SR	6/17/2011	Nickel	0.004	0.0040	U	MG/L		0.1
MW12SR	6/17/2011	Potassium	2.4	0.20		MG/L		
MW12SR	6/17/2011	Selenium	0.01	0.010	U	MG/L	0.05	0.05
MW12SR	6/17/2011	Silver	0.004	0.0040	U	MG/L		0.05
MW12SR	6/17/2011	Sodium	8.9	1.0		MG/L		
MW12SR	6/17/2011	Thallium	0.002	0.0020	U	MG/L	0.002	0.002
MW12SR	6/17/2011	Total Cyanide	0.02	0.020	U	MG/L	200	200
MW12SR	6/17/2011	Vanadium	0.003	0.0030	U	MG/L		
MW12SR	6/17/2011	Zinc	0.005	0.0050	U	MG/L		5
MW12SR	6/17/2011	1,2,4-Trichlorobenzene	10	10	U	UG/L	70	70
MW12SR	6/17/2011	1,2-Dichlorobenzene	10	10	U	UG/L	600	600
MW12SR	6/17/2011	1,3-Dichlorobenzene	10	10	U	UG/L		
MW12SR	6/17/2011	1,4-Dichlorobenzene	10	10	U	UG/L	75	75
MW12SR	6/17/2011	2,2'-Oxybis(1-chloropropane)	10	10	U	UG/L		
MW12SR	6/17/2011	2,4,5-Trichlorophenol	50	50	U	UG/L		
MW12SR	6/17/2011	2,4,6-Trichlorophenol	10	10	U	UG/L		
MW12SR	6/17/2011	2,4-Dichlorophenol	10	10	U	UG/L		
MW12SR	6/17/2011	2,4-Dimethylphenol	10	10	U	UG/L		
MW12SR	6/17/2011	2,4-Dinitrophenol	50	50	U	UG/L		
MW12SR	6/17/2011	2,4-Dinitrotoluene	10	10	U	UG/L		
MW12SR	6/17/2011	2,6-Dinitrotoluene	10	10	U	UG/L		
MW12SR	6/17/2011	2-Chloronaphthalene	10	10	U	UG/L		
MW12SR	6/17/2011	2-Chlorophenol	10	10	U	UG/L		
MW12SR	6/17/2011	2-Methylnaphthalene	10	10	U	UG/L		
MW12SR	6/17/2011	2-Nitroaniline	50	50	U	UG/L		
MW12SR	6/17/2011	2-Nitrophenol	10	10	U	UG/L		
MW12SR	6/17/2011	3,3'-Dichlorobenzidine	10	10	U	UG/L		
MW12SR	6/17/2011	3-Nitroaniline	50	50	U	UG/L		
MW12SR	6/17/2011	4-Bromophenyl phenyl ether	10	10	U	UG/L		
MW12SR	6/17/2011	4-Chloroaniline	10	10	U	UG/L		

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Well ID	Sample Date	Parameter	Result	Reporting Limit	Qualifier	Units	MCL	Class I ILGWQS
MW12SR	6/17/2011	4-Chlorophenyl phenyl ether	10	10	U	UG/L		
MW12SR	6/17/2011	4-Nitroaniline	50	50	U	UG/L		
MW12SR	6/17/2011	4-Nitrophenol	50	50	U	UG/L		
MW12SR	6/17/2011	Acenaphthene	10	10	U	UG/L		
MW12SR	6/17/2011	Acenaphthylene	10	10	U	UG/L		
MW12SR	6/17/2011	Anthracene	10	10	U	UG/L		
MW12SR	6/17/2011	Benzo(a)anthracene	10	10	U	UG/L		
MW12SR	6/17/2011	Benzo(a)pyrene	10	10	U	UG/L	0.2	0.2
MW12SR	6/17/2011	Benzo(b)fluoranthene	10	10	U	UG/L		
MW12SR	6/17/2011	Benzo(ghi)perylene	10	10	U	UG/L		
MW12SR	6/17/2011	Benzo(k)fluoranthene	10	10	U	UG/L		
MW12SR	6/17/2011	Bis(2-chloroethoxy)methane	10	10	U	UG/L		
MW12SR	6/17/2011	Bis(2-chloroethyl)ether	10	10	U	UG/L		
MW12SR	6/17/2011	Bis(2-ethylhexyl) phthalate	10	10	U	UG/L	6	6
MW12SR	6/17/2011	Butyl benzyl phthalate	10	10	U	UG/L		
MW12SR	6/17/2011	Carbazole	10	10	U	UG/L		
MW12SR	6/17/2011	Chloro-m-cresol, p-	10	10	U	UG/L		
MW12SR	6/17/2011	Chrysene	10	10	U	UG/L		
MW12SR	6/17/2011	Cresol, o-	10	10	U	UG/L		
MW12SR	6/17/2011	Cresol, p-	10	10	U	UG/L		
MW12SR	6/17/2011	Dibenzo(a,h)anthracene	10	10	U	UG/L		
MW12SR	6/17/2011	Dibenzofuran	10	10	U	UG/L		
MW12SR	6/17/2011	Diethyl phthalate	10	10	U	UG/L		
MW12SR	6/17/2011	Dimethyl phthalate	10	10	U	UG/L		
MW12SR	6/17/2011	Di-n-butyl phthalate	10	10	U	UG/L		
MW12SR	6/17/2011	Di-n-octyl phthalate	10	10	U	UG/L		
MW12SR	6/17/2011	Fluoranthene	10	10	U	UG/L		
MW12SR	6/17/2011	Fluorene	10	10	U	UG/L		
MW12SR	6/17/2011	Hexachlorobenzene	10	10	U	UG/L	1	
MW12SR	6/17/2011	Hexachlorobutadiene	40	40	U	UG/L		
MW12SR	6/17/2011	Hexachlorocyclopentadiene	24	24	U	UG/L	50	50
MW12SR	6/17/2011	Hexachloroethane	10	10	U	UG/L		
MW12SR	6/17/2011	Indeno(1,2,3-cd)pyrene	10	10	U	UG/L		
MW12SR	6/17/2011	Isophorone	10	10	U	UG/L		
MW12SR	6/17/2011	Naphthalene	10	10	U	UG/L		
MW12SR	6/17/2011	Nitrobenzene	10	10	U	UG/L		
MW12SR	6/17/2011	N-Nitrosodi-n-propylamine	10	10	U	UG/L		
MW12SR	6/17/2011	N-Nitrosodiphenylamine	10	10	U	UG/L		
MW12SR	6/17/2011	o-Cresol, 4,6-dinitro-	50	50	U	UG/L		

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Well ID	Sample Date	Parameter	Result	Reporting Limit	Qualifier	Units	MCL	Class I ILGWQS
MW12SR	6/17/2011	Pentachlorophenol	50	50	U	UG/L	1	1
MW12SR	6/17/2011	Phenanthrene	10	10	U	UG/L		
MW12SR	6/17/2011	Phenol	10	10	U	UG/L		100
MW12SR	6/17/2011	Pyrene	10	10	U	UG/L		
MW12SR	6/17/2011	1,1,1-Trichloroethane	1	1.0	U	UG/L	200	200
MW12SR	6/17/2011	1,1,2,2-Tetrachloroethane	1	1.0	U	UG/L		
MW12SR	6/17/2011	1,1,2-Trichloroethane	1	1.0	U	UG/L	5	5
MW12SR	6/17/2011	1,1-Dichloroethane	1	1.0	U	UG/L		
MW12SR	6/17/2011	1,1-Dichloroethene	1	1.0	U	UG/L	7	7
MW12SR	6/17/2011	1,2-Dichloroethane	1	1.0	U	UG/L	5	5
MW12SR	6/17/2011	1,2-Dichloropropane	1	1.0	U	UG/L	5	5
MW12SR	6/17/2011	2-Hexanone	10	10	U	UG/L		
MW12SR	6/17/2011	Acetone	10	10	U	UG/L		
MW12SR	6/17/2011	Benzene	1	1.0	U	UG/L	5	5
MW12SR	6/17/2011	Bromodichloromethane	1	1.0	U	UG/L		
MW12SR	6/17/2011	Bromoform	1	1.0	U	UG/L		
MW12SR	6/17/2011	Bromomethane	1	1.0	U	UG/L		
MW12SR	6/17/2011	Carbon disulfide	5	5.0	U	UG/L		
MW12SR	6/17/2011	Carbon tetrachloride	1	1.0	U	UG/L	5	5
MW12SR	6/17/2011	Chlorobenzene	1	1.0	U	UG/L	100	100
MW12SR	6/17/2011	Chloroethane	1	1.0	U	UG/L		
MW12SR	6/17/2011	Chloroform	1	1.0	U	UG/L		
MW12SR	6/17/2011	Chloromethane	1	1.0	U	UG/L		
MW12SR	6/17/2011	cis-1,2-Dichloroethene	1	1.0	U	UG/L	70	70
MW12SR	6/17/2011	cis-1,3-Dichloropropene	1	1.0	U	UG/L		
MW12SR	6/17/2011	Dibromochloromethane	1	1.0	U	UG/L		
MW12SR	6/17/2011	Ethylbenzene	1	1.0	U	UG/L	700	700
MW12SR	6/17/2011	Ketone, ethyl methyl	10	10	U	UG/L		
MW12SR	6/17/2011	methyl isobutyl ketone	10	10	U	UG/L		
MW12SR	6/17/2011	Methylene Chloride	2	2.0	U	UG/L	5	5
MW12SR	6/17/2011	Styrene	1	1.0	U	UG/L	100	100
MW12SR	6/17/2011	Tetrachloroethene	1	1.0	U	UG/L	5	5
MW12SR	6/17/2011	Toluene	1	1.0	U	UG/L	1000	1000
MW12SR	6/17/2011	trans-1,2-Dichloroethene	1	1.0	U	UG/L	100	100
MW12SR	6/17/2011	trans-1,3-Dichloropropene	1	1.0	U	UG/L		
MW12SR	6/17/2011	Trichloroethene	1	1.0	U	UG/L	5	5
MW12SR	6/17/2011	Vinyl chloride	1	1.0	U	UG/L	2	2
MW12SR	6/17/2011	Xylenes, Total	3	3.0	U	UG/L	10000	10000
MW25S	6/20/2011	Alkalinity, Total	399	10.0		MG/L		

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Well ID	Sample Date	Parameter	Result	Reporting Limit	Qualifier	Units	MCL	Class I ILGWQS
MW25S	6/20/2011	Chloride	36.3	1.0		MG/L		200
MW25S	6/20/2011	Nitrate	0.5	0.5	U	MG/L AS N	10	10
MW25S	6/20/2011	Nitrite	0.5	0.5	U	MG/L AS N	1	
MW25S	6/20/2011	Sulfate	73.7	1.0		MG/L		400
MW25S	6/20/2011	Sulfide	1000	1000	U	UG/L		
MW25S	6/20/2011	Total Dissolved Solids	563	10.0		MG/L		1200
MW25S	6/20/2011	Total Organic Carbon	3.6	1.0		MG/L		
MW25S	6/20/2011	Total Suspended Solids	4	4.0	U	MG/L		
MW38S	6/15/2011	Alkalinity, Total	351	10.0		MG/L		
MW38S	6/15/2011	Chloride	90.2	1.0		MG/L		200
MW38S	6/15/2011	Nitrate	0.88	0.5		MG/L AS N	10	10
MW38S	6/15/2011	Nitrite	0.5	0.5	U	MG/L AS N	1	
MW38S	6/15/2011	Sulfate	21.3	1.0		MG/L		400
MW38S	6/15/2011	Sulfide	1000	1000	U	UG/L		
MW38S	6/15/2011	Total Dissolved Solids	630	10.0		MG/L		1200
MW38S	6/15/2011	Total Organic Carbon	1	1.0	U	MG/L		
MW38S	6/15/2011	Total Suspended Solids	4	4.0	U	MG/L		
MW38S	6/15/2011	Aluminum	0.06	0.060	U	MG/L		
MW38S	6/15/2011	Antimony	0.007	0.0070	U	MG/L	6	6
MW38S	6/15/2011	Arsenic	0.01	0.010	U	MG/L	0.01	0.05
MW38S	6/15/2011	Barium	0.1	0.0050		MG/L	2	2
MW38S	6/15/2011	Beryllium	0.001	0.0010	U	MG/L	0.004	0.004
MW38S	6/15/2011	Cadmium	0.001	0.0010	U	MG/L	0.005	0.005
MW38S	6/15/2011	Calcium	73.8	0.10		MG/L		
MW38S	6/15/2011	Chromium	0.038	0.0030		MG/L	0.1	0.1
MW38S	6/15/2011	Cobalt	0.003	0.0030	U	MG/L		1
MW38S	6/15/2011	Copper	0.004	0.0040	U	MG/L	1.3	0.65
MW38S	6/15/2011	Iron	0.22	0.060		MG/L		5
MW38S	6/15/2011	Lead	0.005	0.0050	U	MG/L	0.015	0.0075
MW38S	6/15/2011	Magnesium	31.5	0.050		MG/L		
MW38S	6/15/2011	Manganese	0.0025	0.0010		MG/L		0.15
MW38S	6/15/2011	Mercury	0.0002	0.00020	U	MG/L	0.002	0.002
MW38S	6/15/2011	Nickel	0.004	0.0040	U	MG/L		0.1
MW38S	6/15/2011	Potassium	4.5	0.20	B	MG/L		
MW38S	6/15/2011	Selenium	0.01	0.010	U	MG/L	0.05	0.05
MW38S	6/15/2011	Silver	0.004	0.0040	U	MG/L		0.05
MW38S	6/15/2011	Sodium	89.6	1.0		MG/L		
MW38S	6/15/2011	Thallium	0.002	0.0020	U	MG/L	0.002	0.002
MW38S	6/15/2011	Total Cyanide	0.02	0.020	U	MG/L	200	200

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Well ID	Sample Date	Parameter	Result	Reporting Limit	Qualifier	Units	MCL	Class I ILGWQS
MW38S	6/15/2011	Vanadium	0.003	0.0030	U	MG/L		
MW38S	6/15/2011	Zinc	0.005	0.0050	U	MG/L		5
MW38S	6/15/2011	1,1,1-Trichloroethane	1	1.0	U	UG/L	200	200
MW38S	6/15/2011	1,1,2,2-Tetrachloroethane	1	1.0	U	UG/L		
MW38S	6/15/2011	1,1,2-Trichloroethane	1	1.0	U	UG/L	5	5
MW38S	6/15/2011	1,1-Dichloroethane	9.5	1.0		UG/L		
MW38S	6/15/2011	1,1-Dichloroethene	1	1.0	U	UG/L	7	7
MW38S	6/15/2011	1,2-Dichloroethane	1	1.0	U	UG/L	5	5
MW38S	6/15/2011	1,2-Dichloropropane	1	1.0	U	UG/L	5	5
MW38S	6/15/2011	2-Hexanone	10	10	U	UG/L		
MW38S	6/15/2011	Acetone	10	10	U	UG/L		
MW38S	6/15/2011	Benzene	1	1.0	U	UG/L	5	5
MW38S	6/15/2011	Bromodichloromethane	1	1.0	U	UG/L		
MW38S	6/15/2011	Bromoform	1	1.0	U	UG/L		
MW38S	6/15/2011	Bromomethane	1	1.0	U	UG/L		
MW38S	6/15/2011	Carbon disulfide	5	5.0	U	UG/L		
MW38S	6/15/2011	Carbon tetrachloride	1	1.0	U	UG/L	5	5
MW38S	6/15/2011	Chlorobenzene	1	1.0	U	UG/L	100	100
MW38S	6/15/2011	Chloroethane	1	1.0	U	UG/L		
MW38S	6/15/2011	Chloroform	1	1.0	U	UG/L		
MW38S	6/15/2011	Chloromethane	1	1.0	U	UG/L		
MW38S	6/15/2011	cis-1,2-Dichloroethene	4.8	1.0		UG/L	70	70
MW38S	6/15/2011	cis-1,3-Dichloropropene	1	1.0	U	UG/L		
MW38S	6/15/2011	Dibromochloromethane	1	1.0	U	UG/L		
MW38S	6/15/2011	Ethylbenzene	1	1.0	U	UG/L	700	700
MW38S	6/15/2011	Ketone, ethyl methyl	10	10	U	UG/L		
MW38S	6/15/2011	methyl isobutyl ketone	10	10	U	UG/L		
MW38S	6/15/2011	Methylene Chloride	2	2.0	U	UG/L	5	5
MW38S	6/15/2011	Styrene	1	1.0	U	UG/L	100	100
MW38S	6/15/2011	Tetrachloroethene	1	1.0	U	UG/L	5	5
MW38S	6/15/2011	Toluene	1	1.0	U	UG/L	1000	1000
MW38S	6/15/2011	trans-1,2-Dichloroethene	1	1.0	U	UG/L	100	100
MW38S	6/15/2011	trans-1,3-Dichloropropene	1	1.0	U	UG/L		
MW38S	6/15/2011	Trichloroethene	1	1.0	U	UG/L	5	5
MW38S	6/15/2011	Vinyl chloride	1	1.0	U	UG/L	2	2
MW38S	6/15/2011	Xylenes, Total	3	3.0	U	UG/L	10000	10000
MW39S	6/14/2011	Alkalinity, Total	481	10.0		MG/L		
MW39S	6/14/2011	Chloride	35.5	1.0		MG/L		200
MW39S	6/23/2011	Nitrate	0.5	0.5	U	MG/L AS N	10	10

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Well ID	Sample Date	Parameter	Result	Reporting Limit	Qualifier	Units	MCL	Class I ILGWQS
MW39S	6/23/2011	Nitrite	0.5	0.5	U	MG/L AS N	1	
MW39S	6/14/2011	Sulfate	39.6	1.0		MG/L		400
MW39S	6/14/2011	Sulfide	1000	1000	U	UG/L		
MW39S	6/14/2011	Total Dissolved Solids	523	10.0		MG/L		1200
MW39S	6/14/2011	Total Organic Carbon	1	1.0	U	MG/L		
MW39S	6/14/2011	Total Suspended Solids	4	4.0	U	MG/L		
MW39S	6/14/2011	Aluminum	0.17	0.060		MG/L		
MW39S	6/14/2011	Antimony	0.007	0.0070	U	MG/L	6	6
MW39S	6/14/2011	Arsenic	0.01	0.010	U	MG/L	0.01	0.05
MW39S	6/14/2011	Barium	0.088	0.0050		MG/L	2	2
MW39S	6/14/2011	Beryllium	0.001	0.0010	U	MG/L	0.004	0.004
MW39S	6/14/2011	Cadmium	0.001	0.0010	U	MG/L	0.005	0.005
MW39S	6/14/2011	Calcium	95.7	0.10		MG/L		
MW39S	6/14/2011	Chromium	0.013	0.0030		MG/L	0.1	0.1
MW39S	6/14/2011	Cobalt	0.003	0.0030	U	MG/L		1
MW39S	6/14/2011	Copper	0.004	0.0040	U	MG/L	1.3	0.65
MW39S	6/14/2011	Iron	1.3	0.060		MG/L		5
MW39S	6/14/2011	Lead	0.005	0.0050	U	MG/L	0.015	0.0075
MW39S	6/14/2011	Magnesium	55.1	0.050		MG/L		
MW39S	**6/14/2011**	**Manganese**	**0.27**	**0.0010**		**MG/L**		**0.15**
MW39S	6/14/2011	Mercury	0.0002	0.00020	U	MG/L	0.002	0.002
MW39S	6/14/2011	Nickel	0.0046	0.0040		MG/L		0.1
MW39S	6/14/2011	Potassium	1.4	0.20		MG/L		
MW39S	6/14/2011	Selenium	0.01	0.010	U	MG/L	0.05	0.05
MW39S	6/14/2011	Silver	0.004	0.0040	U	MG/L		0.05
MW39S	6/14/2011	Sodium	57.8	1.0		MG/L		
MW39S	6/14/2011	Thallium	0.002	0.0020	U	MG/L	0.002	0.002
MW39S	6/14/2011	Total Cyanide	0.02	0.020	U	MG/L	200	200
MW39S	6/14/2011	Vanadium	0.003	0.0030	U	MG/L		
MW39S	6/14/2011	Zinc	0.005	0.0050	U	MG/L		5
MW39S	6/14/2011	1,1,1-Trichloroethane	1	1.0	U	UG/L	200	200
MW39S	6/14/2011	1,1,2,2-Tetrachloroethane	1	1.0	U	UG/L		
MW39S	6/14/2011	1,1,2-Trichloroethane	1	1.0	U	UG/L	5	5
MW39S	6/14/2011	1,1-Dichloroethane	1	1.0	U	UG/L		
MW39S	6/14/2011	1,1-Dichloroethene	1	1.0	U	UG/L	7	7
MW39S	6/14/2011	1,2-Dichloroethane	1	1.0	U	UG/L	5	5
MW39S	6/14/2011	1,2-Dichloropropane	1	1.0	U	UG/L	5	5
MW39S	6/14/2011	2-Hexanone	10	10	U	UG/L		
MW39S	6/14/2011	Acetone	10	10	U	UG/L		

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Well ID	Sample Date	Parameter	Result	Reporting Limit	Qualifier	Units	MCL	Class I ILGWQS
MW39S	6/14/2011	Benzene	1	1.0	U	UG/L	5	5
MW39S	6/14/2011	Bromodichloromethane	1	1.0	U	UG/L		
MW39S	6/14/2011	Bromoform	1	1.0	U	UG/L		
MW39S	6/14/2011	Bromomethane	1	1.0	U	UG/L		
MW39S	6/14/2011	Carbon disulfide	5	5.0	U	UG/L		
MW39S	6/14/2011	Carbon tetrachloride	1	1.0	U	UG/L	5	5
MW39S	6/14/2011	Chlorobenzene	1	1.0	U	UG/L	100	100
MW39S	6/14/2011	Chloroethane	1	1.0	U	UG/L		
MW39S	6/14/2011	Chloroform	1	1.0	U	UG/L		
MW39S	6/14/2011	Chloromethane	1	1.0	U	UG/L		
MW39S	6/14/2011	cis-1,2-Dichloroethene	1	1.0	U	UG/L	70	70
MW39S	6/14/2011	cis-1,3-Dichloropropene	1	1.0	U	UG/L		
MW39S	6/14/2011	Dibromochloromethane	1	1.0	U	UG/L		
MW39S	6/14/2011	Ethylbenzene	1	1.0	U	UG/L	700	700
MW39S	6/14/2011	Ketone, ethyl methyl	10	10	U	UG/L		
MW39S	6/14/2011	methyl isobutyl ketone	10	10	U	UG/L		
MW39S	6/14/2011	Methylene Chloride	2	2.0	U	UG/L	5	5
MW39S	6/14/2011	Styrene	1	1.0	U	UG/L	100	100
MW39S	6/14/2011	Tetrachloroethene	1	1.0	U	UG/L	5	5
MW39S	6/14/2011	Toluene	1	1.0	U	UG/L	1000	1000
MW39S	6/14/2011	trans-1,2-Dichloroethene	1	1.0	U	UG/L	100	100
MW39S	6/14/2011	trans-1,3-Dichloropropene	1	1.0	U	UG/L		
MW39S	6/14/2011	Trichloroethene	1	1.0	U	UG/L	5	5
MW39S	6/14/2011	Vinyl chloride	1	1.0	U	UG/L	2	2
MW39S	6/14/2011	Xylenes, Total	3	3.0	U	UG/L	10000	10000
MW41S	6/15/2011	Alkalinity, Total	654	10.0		MG/L		
MW41S	6/15/2011	Chloride	20.4	1.0		MG/L		200
MW41S	6/15/2011	Nitrate	5.49	0.5		MG/L AS N	10	10
MW41S	6/15/2011	Nitrite	0.5	0.5	U	MG/L AS N	1	
MW41S	6/15/2011	Sulfate	149	1.0		MG/L		400
MW41S	6/15/2011	Sulfide	1000	1000	U	UG/L		
MW41S	6/15/2011	Total Dissolved Solids	966	10.0		MG/L		1200
MW41S	6/15/2011	Total Organic Carbon	1	1.0	U	MG/L		
MW41S	6/15/2011	Total Suspended Solids	4	4.0	U	MG/L		
MW41S	6/15/2011	Aluminum	0.075	0.060		MG/L		
MW41S	6/15/2011	Antimony	0.007	0.0070	U	MG/L	6	6
MW41S	6/15/2011	Arsenic	0.01	0.010	U	MG/L	0.01	0.05
MW41S	6/15/2011	Barium	0.066	0.0050		MG/L	2	2
MW41S	6/15/2011	Beryllium	0.001	0.0010	U	MG/L	0.004	0.004

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Well ID	Sample Date	Parameter	Result	Reporting Limit	Qualifier	Units	MCL	Class I ILGWQS
MW41S	6/15/2011	Cadmium	0.001	0.0010	U	MG/L	0.005	0.005
MW41S	6/15/2011	Calcium	216	0.10		MG/L		
MW41S	6/15/2011	Chromium	0.003	0.0030	U	MG/L	0.1	0.1
MW41S	6/15/2011	Cobalt	0.003	0.0030	U	MG/L		1
MW41S	6/15/2011	Copper	0.004	0.0040	U	MG/L	1.3	0.65
MW41S	6/15/2011	Iron	0.095	0.060		MG/L		5
MW41S	6/15/2011	Lead	0.005	0.0050	U	MG/L	0.015	0.0075
MW41S	6/15/2011	Magnesium	66	0.050		MG/L		
MW41S	**6/15/2011**	**Manganese**	**0.41**	**0.0010**		**MG/L**		**0.15**
MW41S	6/15/2011	Mercury	0.0002	0.00020	U	MG/L	0.002	0.002
MW41S	6/15/2011	Nickel	0.0047	0.0040		MG/L		0.1
MW41S	6/15/2011	Potassium	13.5	0.20	B	MG/L		
MW41S	6/15/2011	Selenium	0.01	0.010	U	MG/L	0.05	0.05
MW41S	6/15/2011	Silver	0.004	0.0040	U	MG/L		0.05
MW41S	6/15/2011	Sodium	19	1.0		MG/L		
MW41S	6/15/2011	Thallium	0.002	0.0020	U	MG/L	0.002	0.002
MW41S	6/15/2011	Total Cyanide	0.02	0.020	U	MG/L	200	200
MW41S	6/15/2011	Vanadium	0.003	0.0030	U	MG/L		
MW41S	6/15/2011	Zinc	0.006	0.0050		MG/L		5
MW41S	6/15/2011	1,1,1-Trichloroethane	1	1.0	U	UG/L	200	200
MW41S	6/15/2011	1,1,2,2-Tetrachloroethane	1	1.0	U	UG/L		
MW41S	6/15/2011	1,1,2-Trichloroethane	1	1.0	U	UG/L	5	5
MW41S	6/15/2011	1,1-Dichloroethane	1	1.0	U	UG/L		
MW41S	6/15/2011	1,1-Dichloroethene	1	1.0	U	UG/L	7	7
MW41S	6/15/2011	1,2-Dichloroethane	1	1.0	U	UG/L	5	5
MW41S	6/15/2011	1,2-Dichloropropane	1	1.0	U	UG/L	5	5
MW41S	6/15/2011	2-Hexanone	10	10	U	UG/L		
MW41S	6/15/2011	Acetone	10	10	U	UG/L		
MW41S	6/15/2011	Benzene	1	1.0	U	UG/L	5	5
MW41S	6/15/2011	Bromodichloromethane	1	1.0	U	UG/L		
MW41S	6/15/2011	Bromoform	1	1.0	U	UG/L		
MW41S	6/15/2011	Bromomethane	1	1.0	U	UG/L		
MW41S	6/15/2011	Carbon disulfide	5	5.0	U	UG/L		
MW41S	6/15/2011	Carbon tetrachloride	1	1.0	U	UG/L	5	5
MW41S	6/15/2011	Chlorobenzene	1	1.0	U	UG/L	100	100
MW41S	6/15/2011	Chloroethane	1	1.0	U	UG/L		
MW41S	6/15/2011	Chloroform	1	1.0	U	UG/L		
MW41S	6/15/2011	Chloromethane	1	1.0	U	UG/L		
MW41S	6/15/2011	cis-1,2-Dichloroethene	1	1.0	U	UG/L	70	70

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Well ID	Sample Date	Parameter	Result	Reporting Limit	Qualifier	Units	MCL	Class I ILGWQS
MW41S	6/15/2011	cis-1,3-Dichloropropene	1	1.0	U	UG/L		
MW41S	6/15/2011	Dibromochloromethane	1	1.0	U	UG/L		
MW41S	6/15/2011	Ethylbenzene	1	1.0	U	UG/L	700	700
MW41S	6/15/2011	Ketone, ethyl methyl	10	10	U	UG/L		
MW41S	6/15/2011	methyl isobutyl ketone	10	10	U	UG/L		
MW41S	6/15/2011	Methylene Chloride	2	2.0	U	UG/L	5	5
MW41S	6/15/2011	Styrene	1	1.0	U	UG/L	100	100
MW41S	6/15/2011	Tetrachloroethene	1	1.0	U	UG/L	5	5
MW41S	6/15/2011	Toluene	1	1.0	U	UG/L	1000	1000
MW41S	6/15/2011	trans-1,2-Dichloroethene	1	1.0	U	UG/L	100	100
MW41S	6/15/2011	trans-1,3-Dichloropropene	1	1.0	U	UG/L		
MW41S	6/15/2011	Trichloroethene	1	1.0	U	UG/L	5	5
MW41S	6/15/2011	Vinyl chloride	1	1.0	U	UG/L	2	2
MW41S	6/15/2011	Xylenes, Total	3	3.0	U	UG/L	10000	10000

Notes:
Chloride and metals concentrations are total.
MCL = US EPA Maximum Contaminant Level.
ILGWQS = Illinois Class I Groundwater Quality Standard.
Laboratory analyses performed by TestAmerica Buffalo.
Nitrate and nitrite alalysis perfomred by Environmental Monitoring Technologies, Inc.

Bold indicates exceedance of ILGWQS.

Italics indicates exceedance of MCL.

Bold and italics indicates exceedance of both the MCL and ILGWQS.

Qualifiers:
B = Analyte was detected in the associated Method Blank.
^ = ICV, CCV, ICB, CCB, ISA, ISB, CRI, CRA, DLCK or MCL standard: Instrument related QC exceeds the control limit.
U = Indicates compound/element was analyzed for, but not detected.

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Well ID	Sample Date	Parameter	Result	Qualifier	Units
G135	6/20/2011	Depth to water from land surface	18.41		FT
G135	6/20/2011	Depth to Water from Top of Casing	19.12		FT
G135	6/13/2011	Depth to Water from Top of Casing (initial)	18.59		FT
G135	6/20/2011	Dissolved Oxygen, Field	4.72		MG/L
G135	6/20/2011	Elevation Bottom of Well	730.89		FT/MSL
G135	6/20/2011	Ferrous Iron	0.08		MG/L
G135	6/20/2011	Field EH/ORP	-28.7		MILLIVOLTS
G135	6/20/2011	Measuring Point Elevation	759.16		FT/MSL
G135	6/20/2011	pH, Field	7.28		SU
G135	6/20/2011	Specific Conductance, Field	517		UMHOS/CM
G135	6/20/2011	Temperature, Field (°F)	51		DEGREES F
G135	6/20/2011	Turbidity	5.09		NTU
G135	6/20/2011	Water Elevation	740.04		FT/MSL
G135	6/13/2011	Water Elevation (initial)	740.57		FT/MSL
MW1S	6/20/2011	Depth to water from land surface	1.66		FT
MW1S	6/20/2011	Depth to Water from Top of Casing	3.61		FT
MW1S	6/13/2011	Depth to Water from Top of Casing (initial)	3.46		FT
MW1S	6/20/2011	Dissolved Oxygen, Field	3.72		MG/L
MW1S	6/20/2011	Elevation Bottom of Well	730.51		FT/MSL
MW1S	6/20/2011	Ferrous Iron	0		MG/L
MW1S	6/20/2011	Field EH/ORP	-104.1		MILLIVOLTS
MW1S	6/20/2011	Measuring Point Elevation	741.14		FT/MSL
MW1S	6/20/2011	pH, Field	6.97		SU
MW1S	6/20/2011	Specific Conductance, Field	804		UMHOS/CM
MW1S	6/20/2011	Temperature, Field (°F)	58.1		DEGREES F
MW1S	6/20/2011	Turbidity	6.43		NTU
MW1S	6/20/2011	Water Elevation	737.53		FT/MSL
MW1S	6/13/2011	Water Elevation (initial)	737.68		FT/MSL
MW2SR	6/14/2011	Depth to water from land surface	16.16		FT
MW2SR	6/14/2011	Depth to Water from Top of Casing	18.61		FT
MW2SR	6/13/2011	Depth to Water from Top of Casing (initial)	18.61		FT
MW2SR	6/14/2011	Dissolved Oxygen, Field	9.22		MG/L
MW2SR	6/14/2011	Elevation Bottom of Well	733.06		FT/MSL
MW2SR	6/14/2011	Ferrous Iron	0.17		MG/L
MW2SR	6/14/2011	Field EH/ORP	28.1		MILLIVOLTS
MW2SR	6/14/2011	Measuring Point Elevation	759.26		FT/MSL
MW2SR	6/14/2011	pH, Field	6.99		SU
MW2SR	6/14/2011	Specific Conductance, Field	952		UMHOS/CM
MW2SR	6/14/2011	Temperature, Field (°F)	54.4		DEGREES F

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Well ID	Sample Date	Parameter	Result	Qualifier	Units
MW2SR	6/14/2011	Turbidity	3.28		NTU
MW2SR	6/14/2011	Water Elevation	740.65		FT/MSL
MW2SR	6/13/2011	Water Elevation (initial)	740.65		FT/MSL
MW5SR	6/15/2011	Depth to water from land surface	4.77		FT
MW5SR	6/15/2011	Depth to Water from Top of Casing	6.42		FT
MW5SR	6/13/2011	Depth to Water from Top of Casing (initial)	6.35		FT
MW5SR	6/15/2011	Dissolved Oxygen, Field	1.32		MG/L
MW5SR	6/15/2011	Elevation Bottom of Well	725.18		FT/MSL
MW5SR	6/15/2011	Ferrous Iron	0.06		MG/L
MW5SR	6/15/2011	Field EH/ORP	-161		MILLIVOLTS
MW5SR	6/15/2011	Measuring Point Elevation	748.17		FT/MSL
MW5SR	6/15/2011	pH, Field	7.19		SU
MW5SR	6/15/2011	Specific Conductance, Field	590		UMHOS/CM
MW5SR	6/15/2011	Temperature, Field (°F)	55.5		DEGREES F
MW5SR	6/15/2011	Turbidity	8.71		NTU
MW5SR	6/15/2011	Water Elevation	741.75		FT/MSL
MW5SR	6/13/2011	Water Elevation (initial)	741.82		FT/MSL
MW6S	6/20/2011	Depth to water from land surface	0.36		FT
MW6S	6/20/2011	Depth to Water from Top of Casing	2.76		FT
MW6S	6/13/2011	Depth to Water from Top of Casing (initial)	2.56		FT
MW6S	6/20/2011	Dissolved Oxygen, Field	5.12		MG/L
MW6S	6/20/2011	Elevation Bottom of Well	729.26		FT/MSL
MW6S	6/20/2011	Ferrous Iron	0.31		MG/L
MW6S	6/20/2011	Field EH/ORP	-117.5		MILLIVOLTS
MW6S	6/20/2011	Measuring Point Elevation	743.96		FT/MSL
MW6S	6/20/2011	pH, Field	6.7		SU
MW6S	6/20/2011	Specific Conductance, Field	1217		UMHOS/CM
MW6S	6/20/2011	Temperature, Field (°F)	54.4		DEGREES F
MW6S	6/20/2011	Turbidity	2.09		NTU
MW6S	6/20/2011	Water Elevation	741.20		FT/MSL
MW6S	6/13/2011	Water Elevation (initial)	741.40		FT/MSL
MW10S	6/15/2011	Depth to water from land surface	9.24		FT
MW10S	6/15/2011	Depth to Water from Top of Casing	11.54		FT
MW10S	6/13/2011	Depth to Water from Top of Casing (initial)	11.70		FT
MW10S	6/15/2011	Dissolved Oxygen, Field	2.91		MG/L
MW10S	6/15/2011	Elevation Bottom of Well	735.76		FT/MSL
MW10S	6/15/2011	Ferrous Iron	0.14		MG/L
MW10S	6/15/2011	Field EH/ORP	181.3		MILLIVOLTS
MW10S	6/15/2011	Measuring Point Elevation	756.64		FT/MSL

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Well ID	Sample Date	Parameter	Result	Qualifier	Units
MW10S	6/15/2011	pH, Field	6.85		SU
MW10S	6/15/2011	Specific Conductance, Field	708		UMHOS/CM
MW10S	6/15/2011	Temperature, Field (°F)	51.1		DEGREES F
MW10S	6/15/2011	Turbidity	9.87		NTU
MW10S	6/15/2011	Water Elevation	745.10		FT/MSL
MW10S	6/13/2011	Water Elevation (initial)	744.94		FT/MSL
MW12SR	6/17/2011	Depth to water from land surface	14.51		FT
MW12SR	6/17/2011	Depth to Water from Top of Casing	16.36		FT
MW12SR	6/13/2011	Depth to Water from Top of Casing (initial)	15.82		FT
MW12SR	6/17/2011	Dissolved Oxygen, Field	2.46		MG/L
MW12SR	6/17/2011	Elevation Bottom of Well	732.91		FT/MSL
MW12SR	6/17/2011	Ferrous Iron	0.2		MG/L
MW12SR	6/17/2011	Field EH/ORP	-122.0		MILLIVOLTS
MW12SR	6/17/2011	Measuring Point Elevation	757.37		FT/MSL
MW12SR	6/17/2011	pH, Field	7.27		SU
MW12SR	6/17/2011	Specific Conductance, Field	469		UMHOS/CM
MW12SR	6/17/2011	Temperature, Field (°F)	53.1		DEGREES F
MW12SR	6/17/2011	Turbidity	8.91		NTU
MW12SR	6/17/2011	Water Elevation	741.01		FT/MSL
MW12SR	6/13/2011	Water Elevation (initial)	741.55		FT/MSL
MW25S	6/20/2011	Depth to water from land surface	7.77		FT
MW25S	6/20/2011	Depth to Water from Top of Casing	11.00		FT
MW25S	6/13/2011	Depth to Water from Top of Casing (initial)	10.84		FT
MW25S	6/20/2011	Dissolved Oxygen, Field	4.83		MG/L
MW25S	6/20/2011	Elevation Bottom of Well	733.96		FT/MSL
MW25S	6/20/2011	Ferrous Iron	0.09		MG/L
MW25S	6/20/2011	Field EH/ORP	-46.5		MILLIVOLTS
MW25S	6/20/2011	Measuring Point Elevation	749.22		FT/MSL
MW25S	6/20/2011	pH, Field	7.1		SU
MW25S	6/20/2011	Specific Conductance, Field	820		UMHOS/CM
MW25S	6/20/2011	Temperature, Field (°F)	54.5		DEGREES F
MW25S	6/20/2011	Turbidity	7.63		NTU
MW25S	6/20/2011	Water Elevation	738.22		FT/MSL
MW25S	6/13/2011	Water Elevation (initial)	738.38		FT/MSL
MW38S	6/15/2011	Depth to water from land surface	6.56		FT
MW38S	6/15/2011	Depth to Water from Top of Casing	8.89		FT
MW38S	6/13/2011	Depth to Water from Top of Casing (initial)	8.75		FT
MW38S	6/15/2011	Dissolved Oxygen, Field	2.69		MG/L
MW38S	6/15/2011	Elevation Bottom of Well	737.9		FT/MSL

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Tri-County Landfill
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Well ID	Sample Date	Parameter	Result	Qualifier	Units
MW38S	6/15/2011	Ferrous Iron	0.26		MG/L
MW38S	6/15/2011	Field EH/ORP	144		MILLIVOLTS
MW38S	6/15/2011	Measuring Point Elevation	755.02		FT/MSL
MW38S	6/15/2011	pH, Field	7.09		SU
MW38S	6/15/2011	Specific Conductance, Field	839		UMHOS/CM
MW38S	6/15/2011	Temperature, Field (°F)	53.1		DEGREES F
MW38S	6/15/2011	Turbidity	7.39		NTU
MW38S	6/15/2011	Water Elevation	746.14		FT/MSL
MW38S	6/13/2011	Water Elevation (initial)	746.27		FT/MSL
MW39S	6/14/2011	Depth to water from land surface	2.08		FT
MW39S	6/14/2011	Depth to Water from Top of Casing	4.08		FT
MW39S	6/13/2011	Depth to Water from Top of Casing (initial)	3.90		FT
MW39S	6/14/2011	Dissolved Oxygen, Field	3.03		MG/L
MW39S	6/14/2011	Elevation Bottom of Well	723.74		FT/MSL
MW39S	6/14/2011	Ferrous Iron	0.13		MG/L
MW39S	6/14/2011	Field EH/ORP	-121.2		MILLIVOLTS
MW39S	6/14/2011	Measuring Point Elevation	739.45		FT/MSL
MW39S	6/14/2011	pH, Field	7.11		SU
MW39S	6/14/2011	Specific Conductance, Field	910		UMHOS/CM
MW39S	6/14/2011	Temperature, Field (°F)	53.8		DEGREES F
MW39S	6/14/2011	Turbidity	7.08		NTU
MW39S	6/14/2011	Water Elevation	735.37		FT/MSL
MW39S	6/13/2011	Water Elevation (initial)	735.55		FT/MSL
MW41S	6/15/2011	Depth to water from land surface	14.02		FT
MW41S	6/15/2011	Depth to Water from Top of Casing	16.72		FT
MW41S	6/13/2011	Depth to Water from Top of Casing (initial)	16.83		FT
MW41S	6/15/2011	Dissolved Oxygen, Field	2.79		MG/L
MW41S	6/15/2011	Elevation Bottom of Well	729.41		FT/MSL
MW41S	6/15/2011	Ferrous Iron	0.05		MG/L
MW41S	6/15/2011	Field EH/ORP	142.5		MILLIVOLTS
MW41S	6/15/2011	Measuring Point Elevation	757.34		FT/MSL
MW41S	6/15/2011	pH, Field	6.72		SU
MW41S	6/15/2011	Specific Conductance, Field	1275		UMHOS/CM
MW41S	6/15/2011	Temperature, Field (°F)	54.8		DEGREES F
MW41S	6/15/2011	Turbidity	6.71		NTU
MW41S	6/15/2011	Water Elevation	740.62		FT/MSL
MW41S	6/13/2011	Water Elevation (initial)	740.51		FT/MSL
PZ29	6/13/2011	Depth to water from land surface	7.33		FT
PZ29	6/13/2011	Depth to Water from Top of Casing	9.38		FT

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Well ID	Sample Date	Parameter	Result	Qualifier	Units
PZ29	6/13/2011	Depth to Water from Top of Casing (initial)	9.38		FT
PZ29	6/13/2011	Measuring Point Elevation	757.48		FT/MSL
PZ29	6/13/2011	Water Elevation	748.10		FT/MSL
PZ29	6/13/2011	Water Elevation (initial)	748.10		FT/MSL
PZ29	6/13/2011	Well Depth, Total	16.76		FT
PZ32	6/13/2011	Depth to water from land surface	Dry		FT
PZ32	6/13/2011	Depth to Water from Top of Casing	Dry		FT
PZ32	6/13/2011	Depth to Water from Top of Casing (initial)	Dry		FT
PZ32	6/13/2011	Measuring Point Elevation	760.74		FT/MSL
PZ32	6/13/2011	Water Elevation	Dry		FT/MSL
PZ32	6/13/2011	Water Elevation (initial)	Dry		FT/MSL
PZ32	6/13/2011	Well Depth, Total	22.01		FT

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Elgin Landfill
Shallow Monitoring Well Network Analytical Data

Well ID	Sample Date	Parameter	Result	Qualifier	Reporting Limit	MCL	Class I ILGWQS
MW9S	6/14/11	2-Butanone (UG/L)		U	5		
MW9S	6/14/11	Alkalinity, Total (MG/L)	371		10		
MW9S	6/14/11	Chloride (MG/L)	91.2		1		200
MW9S	6/14/11	Nitrogen, Nitrate (MG/L)	0.11		0.013	10	10
MW9S	6/14/11	Nitrogen, Nitrite (MG/L)		U	0.014	1	
MW9S	6/14/11	Sulfate (MG/L)	111		2		400
MW9S	6/14/11	Sulfide (UG/L)		U	1000		
MW9S	6/14/11	Total Dissolved Solids (MG/L)	692		10		1200
MW9S	6/14/11	Total Suspended Solids (MG/L)		U	4		
MW9S	6/14/11	1,1,1-Trichloroethane (UG/L)		U	1	200	200
MW9S	6/14/11	1,1,2,2-Tetrachloroethane (UG/L)		U	1		
MW9S	6/14/11	1,1,2-Trichloroethane (UG/L)		U	1	5	5
MW9S	6/14/11	1,1-Dichloroethane (UG/L)		U	1		
MW9S	6/14/11	1,1-Dichloroethene (UG/L)		U	1	7	7
MW9S	6/14/11	1,2-Dichloroethane (UG/L)		U	1	5	5
MW9S	6/14/11	1,2-Dichloroethene, Total (UG/L)		U	2		
MW9S	6/14/11	1,2-Dichloropropane (UG/L)		U	1	5	5
MW9S	6/14/11	2-Hexanone (UG/L)		U	10		
MW9S	6/14/11	4-Methyl-2-pentanone (UG/L)		U	5		
MW9S	6/14/11	Acetone (UG/L)		U	5		
MW9S	6/14/11	Benzene (UG/L)		U	1	5	5
MW9S	6/14/11	Bromodichloromethane (UG/L)		U	1		
MW9S	6/14/11	Bromoform (UG/L)		U	1		
MW9S	6/14/11	Bromomethane (UG/L)		U	1		
MW9S	6/14/11	Carbon disulfide (UG/L)		U	5		
MW9S	6/14/11	Carbon tetrachloride (UG/L)		U	1	5	5
MW9S	6/14/11	Chlorobenzene (UG/L)		U	1	100	100
MW9S	6/14/11	Chloroethane (UG/L)		U	1		
MW9S	6/14/11	Chloroform (UG/L)		U	1		
MW9S	6/14/11	Chloromethane (UG/L)		U	1		
MW9S	6/14/11	cis-1,3-Dichloropropene (UG/L)		U	1		
MW9S	6/14/11	Dibromochloromethane (UG/L)		U	1		
MW9S	6/14/11	Ethylbenzene (UG/L)		U	1	700	700
MW9S	6/14/11	Methylene Chloride (UG/L)		U	2	5	5
MW9S	6/14/11	Styrene (UG/L)		U	1	100	100
MW9S	6/14/11	Tetrachloroethene (UG/L)		U	1	5	5
MW9S	6/14/11	Toluene (UG/L)		U	1	1000	1000
MW9S	6/14/11	Total Organic Carbon (MG/L)		U	1		
MW9S	6/14/11	trans-1,3-Dichloropropene (UG/L)		U	1		

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Well ID	Sample Date	Parameter	Result	Qualifier	Reporting Limit	MCL	Class I ILGWQS
MW9S	6/14/11	Trichloroethene (UG/L)		U	1	5	5
MW9S	6/14/11	Vinyl chloride (UG/L)		U	1	2	2
MW9S	6/14/11	Xylenes, Total (UG/L)		U	3	10000	10000
MW20S	6/15/11	2-Butanone (UG/L)		U	5		
MW20S	6/15/11	Alkalinity, Total (MG/L)	640		10		
MW20S	6/15/11	Aluminum (MG/L)	0.71		0.06		
MW20S	6/15/11	Antimony (MG/L)	0.00038	J	0.001	6	6
MW20S	6/15/11	Arsenic (MG/L)	0.0035		0.003	0.01	0.05
MW20S	6/15/11	Barium (MG/L)	0.24		0.005	2	2
MW20S	6/15/11	Beryllium (MG/L)		U	0.001	0.004	0.004
MW20S	6/15/11	Cadmium (MG/L)	0.00045	J	0.001	0.005	0.005
MW20S	6/15/11	Calcium (MG/L)	199		0.5		
MW20S	6/15/11	Chloride (MG/L)	164		2		200
MW20S	***6/15/11***	***Chromium (MG/L)***	***2.4***		***0.005***	***0.1***	***0.1***
MW20S	6/15/11	Cobalt (MG/L)	0.0068	J	0.05		1
MW20S	6/15/11	Copper (MG/L)	0.03		0.01	1.3	0.65
MW20S	6/15/11	Iron (MG/L)	3.9		0.14		5
MW20S	6/15/11	Lead (MG/L)		U	0.005	0.015	0.0075
MW20S	6/15/11	Magnesium (MG/L)	80.1		0.2		
MW20S	**6/15/11**	**Manganese (MG/L)**	**0.28**	**B**	**0.003**		**0.15**
MW20S	6/15/11	Mercury (MG/L)		U	0.0004	0.002	0.002
MW20S	**6/15/11**	**Nickel (MG/L)**	**0.37**		**0.01**		**0.1**
MW20S	6/15/11	Nitrogen, Nitrate (MG/L)	8		0.013	10	10
MW20S	6/15/11	Nitrogen, Nitrite (MG/L)		U	0.014	1	
MW20S	6/15/11	Potassium (MG/L)	14.1		0.5		
MW20S	6/15/11	Selenium (MG/L)		U	0.015		0.1
MW20S	6/15/11	Silver (MG/L)		U	0.003		0.05
MW20S	6/15/11	Sodium (MG/L)	78.8		5		
MW20S	6/15/11	Sulfate (MG/L)	65.6		2		400
MW20S	6/15/11	Sulfide (UG/L)		U	1000		
MW20S	6/15/11	Thallium (MG/L)	0.00012	J	0.001	0.002	0.002
MW20S	6/15/11	Total Cyanide (MG/L)		U	0.02	200	200
MW20S	**6/15/11**	**Total Dissolved Solids (MG/L)**	**1220**		**10**		**1200**
MW20S	6/15/11	Total Suspended Solids (MG/L)	89.6		4		
MW20S	6/15/11	Vanadium (MG/L)	0.014	J	0.05		
MW20S	6/15/11	Zinc (MG/L)	0.01	J B	0.02		5
MW20S	6/15/11	1,1,1-Trichloroethane (UG/L)		U	1	200	200
MW20S	6/15/11	1,1,2,2-Tetrachloroethane (UG/L)		U	1		
MW20S	6/15/11	1,1,2-Trichloroethane (UG/L)		U	1	5	5

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Well ID	Sample Date	Parameter	Result	Qualifier	Reporting Limit	MCL	Class I ILGWQS
MW20S	6/15/11	1,1-Dichloroethane (UG/L)		U	1		
MW20S	6/15/11	1,1-Dichloroethene (UG/L)		U	1	7	7
MW20S	6/15/11	1,2-Dichloroethane (UG/L)		U	1	5	5
MW20S	6/15/11	1,2-Dichloroethene, Total (UG/L)		U	2		
MW20S	6/15/11	1,2-Dichloropropane (UG/L)		U	1	5	5
MW20S	6/15/11	2-Hexanone (UG/L)		U	10		
MW20S	6/15/11	4-Methyl-2-pentanone (UG/L)		U	5		
MW20S	6/15/11	Acetone (UG/L)		U	5		
MW20S	6/15/11	Benzene (UG/L)		U	1	5	5
MW20S	6/15/11	Bromodichloromethane (UG/L)		U	1		
MW20S	6/15/11	Bromoform (UG/L)		U	1		
MW20S	6/15/11	Bromomethane (UG/L)		U	1		
MW20S	6/15/11	Carbon disulfide (UG/L)		U	5		
MW20S	6/15/11	Carbon tetrachloride (UG/L)		U	1	5	5
MW20S	6/15/11	Chlorobenzene (UG/L)		U	1	100	100
MW20S	6/15/11	Chloroethane (UG/L)		U	1		
MW20S	6/15/11	Chloroform (UG/L)		U	1		
MW20S	6/15/11	Chloromethane (UG/L)		U	1		
MW20S	6/15/11	cis-1,3-Dichloropropene (UG/L)		U	1		
MW20S	6/15/11	Dibromochloromethane (UG/L)		U	1		
MW20S	6/15/11	Ethylbenzene (UG/L)		U	1	700	700
MW20S	6/15/11	Methylene Chloride (UG/L)		U	2	5	5
MW20S	6/15/11	Styrene (UG/L)		U	1	100	100
MW20S	6/15/11	Tetrachloroethene (UG/L)		U	1	5	5
MW20S	6/15/11	Toluene (UG/L)		U	1	1000	1000
MW20S	6/15/11	Total Organic Carbon (MG/L)	4.5		1		
MW20S	6/15/11	trans-1,3-Dichloropropene (UG/L)		U	1		
MW20S	6/15/11	Trichloroethene (UG/L)		U	1	5	5
MW20S	6/15/11	Vinyl chloride (UG/L)		U	1	2	2
MW20S	6/15/11	Xylenes, Total (UG/L)		U	3	10000	10000
MW21S	6/15/11	2-Butanone (UG/L)		U	5		
MW21S	6/15/11	Alkalinity, Total (MG/L)	79		10		
MW21S	6/15/11	Alkalinity, Total (MG/L)	79		10		
MW21S	6/15/11	Alkalinity, Total (MG/L)	384		10		
MW21S	6/15/11	Aluminum (MG/L)	95		0.06		
MW21S	6/15/11	Aluminum (MG/L)	95		0.06		
MW21S	6/15/11	Aluminum (MG/L)		U	0.06		
MW21S	6/15/11	Antimony (MG/L)	0.00018	J	0.001	6	6
MW21S	***6/15/11***	***Antimony (MG/L)***	***110***		***0.001***	***6***	***6***

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Well ID	Sample Date	Parameter	Result	Qualifier	Reporting Limit	MCL	Class I ILGWQS
MW21S	***6/15/11***	***Antimony (MG/L)***	***109***		***0.001***	***6***	***6***
MW21S	6/15/11	Arsenic (MG/L)	0.0024	J	0.003	0.01	0.05
MW21S	***6/15/11***	***Arsenic (MG/L)***	***103***		***0.003***	***0.01***	***0.05***
MW21S	***6/15/11***	***Arsenic (MG/L)***	***103***		***0.003***	***0.01***	***0.05***
MW21S	6/15/11	Barium (MG/L)	0.18		0.005	2	2
MW21S	***6/15/11***	***Barium (MG/L)***	***109***		***0.005***	***2***	***2***
MW21S	***6/15/11***	***Barium (MG/L)***	***94***		***0.005***	***2***	***2***
MW21S	6/15/11	Beryllium (MG/L)		U	0.001	0.004	0.004
MW21S	***6/15/11***	***Beryllium (MG/L)***	***75***		***0.001***	***0.004***	***0.004***
MW21S	***6/15/11***	***Beryllium (MG/L)***	***73***		***0.001***	***0.004***	***0.004***
MW21S	6/15/11	Cadmium (MG/L)		U	0.001	0.005	0.005
MW21S	***6/15/11***	***Cadmium (MG/L)***	***104***		***0.001***	***0.005***	***0.005***
MW21S	***6/15/11***	***Cadmium (MG/L)***	***103***		***0.001***	***0.005***	***0.005***
MW21S	6/15/11	Calcium (MG/L)	72		0.5		
MW21S	6/15/11	Calcium (MG/L)	206		0.5		
MW21S	6/15/11	Calcium (MG/L)	57.7		0.5		
MW21S	6/15/11	Chloride (MG/L)	100		5		200
MW21S	6/15/11	Chloride (MG/L)	179		5		200
MW21S	6/15/11	Chloride (MG/L)	91		5		200
MW21S	***6/15/11***	***Chromium (MG/L)***	***94***		***0.005***	***0.1***	***0.1***
MW21S	6/15/11	Chromium (MG/L)	0.011		0.005	0.1	0.1
MW21S	***6/15/11***	***Chromium (MG/L)***	***97***		***0.005***	***0.1***	***0.1***
MW21S	**6/15/11**	**Cobalt (MG/L)**	**102**		**0.05**		**1**
MW21S	**6/15/11**	**Cobalt (MG/L)**	**102**		**0.05**		**1**
MW21S	6/15/11	Cobalt (MG/L)	0.00091	J	0.05		1
MW21S	***6/15/11***	***Copper (MG/L)***	***102***		***0.01***	***1.3***	***0.65***
MW21S	***6/15/11***	***Copper (MG/L)***	***102***		***0.01***	***1.3***	***0.65***
MW21S	6/15/11	Copper (MG/L)	0.002	J	0.01	1.3	0.65
MW21S	6/15/11	Iron (MG/L)	1.9		0.14		5
MW21S	**6/15/11**	**Iron (MG/L)**	**101**		**0.14**		**5**
MW21S	**6/15/11**	**Iron (MG/L)**	**96**		**0.14**		**5**
MW21S	6/15/11	Lead (MG/L)		U	0.005	0.015	0.0075
MW21S	***6/15/11***	***Lead (MG/L)***	***99***		***0.005***	***0.015***	***0.0075***
MW21S	***6/15/11***	***Lead (MG/L)***	***100***		***0.005***	***0.015***	***0.0075***
MW21S	6/15/11	Magnesium (MG/L)	40.6		0.2		
MW21S	6/15/11	Magnesium (MG/L)	80		0.2		
MW21S	6/15/11	Magnesium (MG/L)	201		0.2		
MW21S	6/15/11	Manganese (MG/L)	0.054	B	0.003		0.15
MW21S	**6/15/11**	**Manganese (MG/L)**	**105**		**0.003**		**0.15**

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Well ID	Sample Date	Parameter	Result	Qualifier	Reporting Limit	MCL	Class I ILGWQS
MW21S	**6/15/11**	**Manganese (MG/L)**	**97**		**0.003**		**0.15**
MW21S	***6/15/11***	***Mercury (MG/L)***	***98***		***0.0004***	***0.002***	***0.002***
MW21S	6/15/11	Mercury (MG/L)		U	0.0004	0.002	0.002
MW21S	***6/15/11***	***Mercury (MG/L)***	***99***		***0.0004***	***0.002***	***0.002***
MW21S	**6/15/11**	**Nickel (MG/L)**	**100**		**0.01**		**0.1**
MW21S	**6/15/11**	**Nickel (MG/L)**	**101**		**0.01**		**0.1**
MW21S	6/15/11	Nickel (MG/L)	0.0069	J	0.01		0.1
MW21S	6/15/11	Nitrogen, Nitrate (MG/L)	0.89		0.013	10	10
MW21S	6/15/11	Nitrogen, Nitrite (MG/L)		U	0.014	1	
MW21S	6/15/11	Potassium (MG/L)	30		0.5		
MW21S	6/15/11	Potassium (MG/L)	94		0.5		
MW21S	6/15/11	Potassium (MG/L)	152		0.5		
MW21S	6/15/11	Selenium (MG/L)		U	0.015		0.1
MW21S	**6/15/11**	**Selenium (MG/L)**	**109**		**0.015**		**0.1**
MW21S	**6/15/11**	**Selenium (MG/L)**	**107**		**0.015**		**0.1**
MW21S	**6/15/11**	**Silver (MG/L)**	**99**		**0.003**		**0.05**
MW21S	6/15/11	Silver (MG/L)		U	0.003		0.05
MW21S	**6/15/11**	**Silver (MG/L)**	**98**		**0.003**		**0.05**
MW21S	6/15/11	Sodium (MG/L)	144		5		
MW21S	6/15/11	Sodium (MG/L)	59		5		
MW21S	6/15/11	Sodium (MG/L)	216		5		
MW21S	6/15/11	Sulfate (MG/L)	77.6		2		400
MW21S	6/15/11	Sulfate (MG/L)	88		2		400
MW21S	6/15/11	Sulfate (MG/L)	90		2		400
MW21S	6/15/11	Sulfide (UG/L)	160		1000		
MW21S	6/15/11	Sulfide (UG/L)	160		1000		
MW21S	6/15/11	Sulfide (UG/L)		U	1000		
MW21S	6/15/11	Thallium (MG/L)	0.00002	J	0.001	0.002	0.002
MW21S	***6/15/11***	***Thallium (MG/L)***	***96***		***0.001***	***0.002***	***0.002***
MW21S	***6/15/11***	***Thallium (MG/L)***	***95***		***0.001***	***0.002***	***0.002***
MW21S	6/15/11	Total Cyanide (MG/L)	65		0.02	200	200
MW21S	6/15/11	Total Cyanide (MG/L)	100		0.02	200	200
MW21S	6/15/11	Total Cyanide (MG/L)		U	0.02	200	200
MW21S	6/15/11	Total Dissolved Solids (MG/L)	922		10		1200
MW21S	6/15/11	Total Suspended Solids (MG/L)	5.2		4		
MW21S	6/15/11	Vanadium (MG/L)	96		0.05		
MW21S	6/15/11	Vanadium (MG/L)	97		0.05		
MW21S	6/15/11	Vanadium (MG/L)	0.002	J	0.05		
MW21S	6/15/11	Zinc (MG/L)	0.0066	J B	0.02		5

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Well ID	Sample Date	Parameter	Result	Qualifier	Reporting Limit	MCL	Class I ILGWQS
MW21S	**6/15/11**	**Zinc (MG/L)**	**95**		**0.02**		**5**
MW21S	**6/15/11**	**Zinc (MG/L)**	**95**		**0.02**		**5**
MW21S	6/15/11	1,1,1-Trichloroethane (UG/L)		U	1	200	200
MW21S	6/15/11	1,1,2,2-Tetrachloroethane (UG/L)		U	1		
MW21S	6/15/11	1,1,2-Trichloroethane (UG/L)		U	1	5	5
MW21S	6/15/11	1,1-Dichloroethane (UG/L)	72		1		
MW21S	6/15/11	1,1-Dichloroethane (UG/L)	72		1		
MW21S	6/15/11	1,1-Dichloroethane (UG/L)	0.82	J	1		
MW21S	6/15/11	1,1-Dichloroethene (UG/L)		U	1	7	7
MW21S	***6/15/11***	***1,1-Dichloroethene (UG/L)***	***64***		***1***	***7***	***7***
MW21S	***6/15/11***	***1,1-Dichloroethene (UG/L)***	***59***		***1***	***7***	***7***
MW21S	***6/15/11***	***1,2-Dichloroethane (UG/L)***	***73***		***1***	***5***	***5***
MW21S	6/15/11	1,2-Dichloroethane (UG/L)		U	1	5	5
MW21S	***6/15/11***	***1,2-Dichloroethane (UG/L)***	***71***		***1***	***5***	***5***
MW21S	6/15/11	1,2-Dichloroethene, Total (UG/L)	75		2		
MW21S	6/15/11	1,2-Dichloroethene, Total (UG/L)		U	2		
MW21S	6/15/11	1,2-Dichloroethene, Total (UG/L)	74		2		
MW21S	6/15/11	1,2-Dichloropropane (UG/L)		U	1	5	5
MW21S	6/15/11	2-Hexanone (UG/L)		U	10		
MW21S	6/15/11	4-Methyl-2-pentanone (UG/L)		U	5		
MW21S	6/15/11	Acetone (UG/L)		U	5		
MW21S	***6/15/11***	***Benzene (UG/L)***	***71***		***1***	***5***	***5***
MW21S	***6/15/11***	***Benzene (UG/L)***	***73***		***1***	***5***	***5***
MW21S	6/15/11	Benzene (UG/L)		U	1	5	5
MW21S	6/15/11	Bromodichloromethane (UG/L)		U	1		
MW21S	6/15/11	Bromoform (UG/L)		U	1		
MW21S	6/15/11	Bromomethane (UG/L)		U	1		
MW21S	6/15/11	Carbon disulfide (UG/L)		U	5		
MW21S	6/15/11	Carbon tetrachloride (UG/L)		U	1	5	5
MW21S	6/15/11	Chlorobenzene (UG/L)		U	1	100	100
MW21S	6/15/11	Chlorobenzene (UG/L)	81		1	100	100
MW21S	6/15/11	Chlorobenzene (UG/L)	80		1	100	100
MW21S	6/15/11	Chloroethane (UG/L)		U	1		
MW21S	6/15/11	Chloroform (UG/L)		U	1		
MW21S	6/15/11	Chloromethane (UG/L)		U	1		
MW21S	6/15/11	cis-1,3-Dichloropropene (UG/L)		U	1		
MW21S	6/15/11	Dibromochloromethane (UG/L)		U	1		
MW21S	6/15/11	Ethylbenzene (UG/L)		U	1	700	700
MW21S	6/15/11	Ethylbenzene (UG/L)	80		1	700	700

Appendix E
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Well ID	Sample Date	Parameter	Result	Qualifier	Reporting Limit	MCL	Class I ILGWQS
MW21S	6/15/11	Ethylbenzene (UG/L)	79		1	700	700
MW21S	6/15/11	Methylene Chloride (UG/L)		U	2	5	5
MW21S	6/15/11	Styrene (UG/L)		U	1	100	100
MW21S	***6/15/11***	***Tetrachloroethene (UG/L)***	***88***		***1***	***5***	***5***
MW21S	***6/15/11***	***Tetrachloroethene (UG/L)***	***86***		***1***	***5***	***5***
MW21S	6/15/11	Tetrachloroethene (UG/L)		U	1	5	5
MW21S	6/15/11	Toluene (UG/L)	79		1	1000	1000
MW21S	6/15/11	Toluene (UG/L)	78		1	1000	1000
MW21S	6/15/11	Toluene (UG/L)		U	1	1000	1000
MW21S	6/15/11	Total Organic Carbon (MG/L)	74		1		
MW21S	6/15/11	Total Organic Carbon (MG/L)	78		1		
MW21S	6/15/11	Total Organic Carbon (MG/L)	1.2		1		
MW21S	6/15/11	trans-1,3-Dichloropropene (UG/L)		U	1		
MW21S	***6/15/11***	***Trichloroethene (UG/L)***	***74***		***1***	***5***	***5***
MW21S	6/15/11	Trichloroethene (UG/L)		U	1	5	5
MW21S	***6/15/11***	***Trichloroethene (UG/L)***	***74***		***1***	***5***	***5***
MW21S	6/15/11	Vinyl chloride (UG/L)		U	1	2	2
MW21S	6/15/11	Xylenes, Total (UG/L)		U	3	10000	10000
MW21S	6/15/11	Xylenes, Total (UG/L)	80		3	10000	10000
MW21S	6/15/11	Xylenes, Total (UG/L)	79		3	10000	10000
MW24S	6/15/11	2-Butanone (UG/L)		U	5		
MW24S	6/15/11	Alkalinity, Total (MG/L)	468		10		
MW24S	6/15/11	Aluminum (MG/L)	0.82		0.06		
MW24S	6/15/11	Antimony (MG/L)	0.0012		0.001	6	6
MW24S	6/15/11	Arsenic (MG/L)	0.0021	J	0.003	0.01	0.05
MW24S	6/15/11	Barium (MG/L)	0.13		0.005	2	2
MW24S	6/15/11	Beryllium (MG/L)		U	0.001	0.004	0.004
MW24S	6/15/11	Cadmium (MG/L)	0.00067	J	0.001	0.005	0.005
MW24S	6/15/11	Calcium (MG/L)	126		0.5		
MW24S	6/15/11	Chloride (MG/L)	15.7		1		200
MW24S	***6/15/11***	***Chromium (MG/L)***	***0.11***		***0.005***	***0.1***	***0.1***
MW24S	6/15/11	Cobalt (MG/L)	0.0082	J	0.05		1
MW24S	6/15/11	Copper (MG/L)	0.025		0.01	1.3	0.65
MW24S	**6/15/11**	**Iron (MG/L)**	**6**		**0.14**		**5**
MW24S	6/15/11	Lead (MG/L)	0.0044	J	0.005	0.015	0.0075
MW24S	6/15/11	Magnesium (MG/L)	59		0.2		
MW24S	**6/15/11**	**Manganese (MG/L)**	**0.54**	**B**	**0.003**		**0.15**
MW24S	6/15/11	Mercury (MG/L)		U	0.0004	0.002	0.002
MW24S	**6/15/11**	**Nickel (MG/L)**	**0.21**		**0.01**		**0.1**

Appendix E
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Well ID	Sample Date	Parameter	Result	Qualifier	Reporting Limit	MCL	Class I ILGWQS
MW24S	6/15/11	Nitrogen, Nitrate (MG/L)	0.56		0.013	10	10
MW24S	6/15/11	Nitrogen, Nitrite (MG/L)		U	0.014	1	
MW24S	6/15/11	Potassium (MG/L)	7.2		0.5		
MW24S	6/15/11	Selenium (MG/L)		U	0.015		0.1
MW24S	6/15/11	Silver (MG/L)		U	0.003		0.05
MW24S	6/15/11	Sodium (MG/L)	21.2		5		
MW24S	6/15/11	Sulfate (MG/L)	82.6		1		400
MW24S	6/15/11	Sulfide (UG/L)		U	1000		
MW24S	6/15/11	Thallium (MG/L)	0.00012	J	0.001	0.002	0.002
MW24S	6/15/11	Total Cyanide (MG/L)		U	0.02	200	200
MW24S	6/15/11	Total Dissolved Solids (MG/L)	652		10		1200
MW24S	6/15/11	Total Suspended Solids (MG/L)	56.4		4		
MW24S	6/15/11	Vanadium (MG/L)	0.0041	J	0.05		
MW24S	6/15/11	Zinc (MG/L)	0.022	B	0.02		5
MW24S	6/15/11	1,1,1-Trichloroethane (UG/L)		U	1	200	200
MW24S	6/15/11	1,1,2,2-Tetrachloroethane (UG/L)		U	1		
MW24S	6/15/11	1,1,2-Trichloroethane (UG/L)		U	1	5	5
MW24S	6/15/11	1,1-Dichloroethane (UG/L)		U	1		
MW24S	6/15/11	1,1-Dichloroethene (UG/L)		U	1	7	7
MW24S	6/15/11	1,2-Dichloroethane (UG/L)		U	1	5	5
MW24S	6/15/11	1,2-Dichloroethene, Total (UG/L)		U	2		
MW24S	6/15/11	1,2-Dichloropropane (UG/L)		U	1	5	5
MW24S	6/15/11	2-Hexanone (UG/L)		U	10		
MW24S	6/15/11	4-Methyl-2-pentanone (UG/L)		U	5		
MW24S	6/15/11	Acetone (UG/L)		U	5		
MW24S	6/15/11	Benzene (UG/L)		U	1	5	5
MW24S	6/15/11	Bromodichloromethane (UG/L)		U	1		
MW24S	6/15/11	Bromoform (UG/L)		U	1		
MW24S	6/15/11	Bromomethane (UG/L)		U	1		
MW24S	6/15/11	Carbon disulfide (UG/L)		U	5		
MW24S	6/15/11	Carbon tetrachloride (UG/L)		U	1	5	5
MW24S	6/15/11	Chlorobenzene (UG/L)		U	1	100	100
MW24S	6/15/11	Chloroethane (UG/L)		U	1		
MW24S	6/15/11	Chloroform (UG/L)		U	1		
MW24S	6/15/11	Chloromethane (UG/L)		U	1		
MW24S	6/15/11	cis-1,3-Dichloropropene (UG/L)		U	1		
MW24S	6/15/11	Dibromochloromethane (UG/L)		U	1		
MW24S	6/15/11	Ethylbenzene (UG/L)		U	1	700	700
MW24S	6/15/11	Methylene Chloride (UG/L)		U	2	5	5

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Well ID	Sample Date	Parameter	Result	Qualifier	Reporting Limit	MCL	Class I ILGWQS
MW24S	6/15/11	Styrene (UG/L)		U	1	100	100
MW24S	6/15/11	Tetrachloroethene (UG/L)		U	1	5	5
MW24S	6/15/11	Toluene (UG/L)		U	1	1000	1000
MW24S	6/15/11	Total Organic Carbon (MG/L)		U	1		
MW24S	6/15/11	trans-1,3-Dichloropropene (UG/L)		U	1		
MW24S	6/15/11	Trichloroethene (UG/L)		U	1	5	5
MW24S	6/15/11	Vinyl chloride (UG/L)		U	1	2	2
MW24S	6/15/11	Xylenes, Total (UG/L)		U	3	10000	10000
MW36S	6/14/11	2-Butanone (UG/L)		U	5		
MW36S	6/14/11	Alkalinity, Total (MG/L)	438		10		
MW36S	6/14/11	Aluminum (MG/L)	1.4		0.06		
MW36S	6/14/11	Antimony (MG/L)		U	0.005	6	6
MW36S	6/14/11	Arsenic (MG/L)	0.0041	J	0.015	0.01	0.05
MW36S	6/14/11	Barium (MG/L)	0.11		0.005	2	2
MW36S	6/14/11	Beryllium (MG/L)		U	0.005	0.004	0.004
MW36S	6/14/11	Cadmium (MG/L)	0.00037	J	0.001	0.005	0.005
MW36S	6/14/11	Calcium (MG/L)	109		0.5		
MW36S	6/14/11	Chloride (MG/L)	66.2		1		200
MW36S	6/14/11	Chromium (MG/L)	0.036		0.005	0.1	0.1
MW36S	6/14/11	Cobalt (MG/L)	0.0051	J	0.05		1
MW36S	6/14/11	Copper (MG/L)	0.014		0.01	1.3	0.65
MW36S	**6/14/11**	**Iron (MG/L)**	**10.7**		**0.14**		**5**
MW36S	**6/14/11**	**Lead (MG/L)**	**0.008**		**0.005**	**0.015**	**0.0075**
MW36S	6/14/11	Magnesium (MG/L)	59.7		0.2		
MW36S	**6/14/11**	**Manganese (MG/L)**	**0.23**		**0.003**		**0.15**
MW36S	6/14/11	Mercury (MG/L)		U	0.0004	0.002	0.002
MW36S	6/14/11	Nickel (MG/L)	0.094		0.01		0.1
MW36S	6/14/11	Nitrogen, Nitrate (MG/L)	2.4		0.013	10	10
MW36S	6/14/11	Nitrogen, Nitrite (MG/L)		U	0.014	1	
MW36S	6/14/11	Potassium (MG/L)	15.9		0.5		
MW36S	6/14/11	Selenium (MG/L)		U	0.015		0.1
MW36S	6/14/11	Silver (MG/L)		U	0.003		0.05
MW36S	6/14/11	Sodium (MG/L)	33.1		5		
MW36S	6/14/11	Sulfate (MG/L)	49.5		1		400
MW36S	6/14/11	Sulfide (UG/L)	800	J ^	1000		
MW36S	6/14/11	Thallium (MG/L)	0.00016	J	0.005	0.002	0.002
MW36S	6/14/11	Total Cyanide (MG/L)		U	0.02	200	200
MW36S	6/14/11	Total Dissolved Solids (MG/L)	629		10		1200
MW36S	6/14/11	Total Suspended Solids (MG/L)	115		4		

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Well ID	Sample Date	Parameter	Result	Qualifier	Reporting Limit	MCL	Class I ILGWQS
MW36S	6/14/11	Vanadium (MG/L)	0.0066	J	0.05		
MW36S	6/14/11	Zinc (MG/L)	0.039		0.02		5
MW36S	6/14/11	1,1,1-Trichloroethane (UG/L)		U	1	200	200
MW36S	6/14/11	1,1,2,2-Tetrachloroethane (UG/L)		U	1		
MW36S	6/14/11	1,1,2-Trichloroethane (UG/L)		U	1	5	5
MW36S	6/14/11	1,1-Dichloroethane (UG/L)		U	1		
MW36S	6/14/11	1,1-Dichloroethene (UG/L)		U	1	7	7
MW36S	6/14/11	1,2-Dichloroethane (UG/L)		U	1	5	5
MW36S	6/14/11	1,2-Dichloroethene, Total (UG/L)		U	2		
MW36S	6/14/11	1,2-Dichloropropane (UG/L)		U	1	5	5
MW36S	6/14/11	2-Hexanone (UG/L)		U	10		
MW36S	6/14/11	4-Methyl-2-pentanone (UG/L)		U	5		
MW36S	6/14/11	Acetone (UG/L)		U	5		
MW36S	6/14/11	Benzene (UG/L)		U	1	5	5
MW36S	6/14/11	Bromodichloromethane (UG/L)		U	1		
MW36S	6/14/11	Bromoform (UG/L)		U	1		
MW36S	6/14/11	Bromomethane (UG/L)		U	1		
MW36S	6/14/11	Carbon disulfide (UG/L)		U	5		
MW36S	6/14/11	Carbon tetrachloride (UG/L)		U	1	5	5
MW36S	6/14/11	Chlorobenzene (UG/L)		U	1	100	100
MW36S	6/14/11	Chloroethane (UG/L)		U	1		
MW36S	6/14/11	Chloroform (UG/L)		U	1		
MW36S	6/14/11	Chloromethane (UG/L)		U	1		
MW36S	6/14/11	cis-1,3-Dichloropropene (UG/L)		U	1		
MW36S	6/14/11	Dibromochloromethane (UG/L)		U	1		
MW36S	6/14/11	Ethylbenzene (UG/L)		U	1	700	700
MW36S	6/14/11	Methylene Chloride (UG/L)		U	2	5	5
MW36S	6/14/11	Styrene (UG/L)		U	1	100	100
MW36S	6/14/11	Tetrachloroethene (UG/L)	0.46	J	1	5	5
MW36S	6/14/11	Toluene (UG/L)		U	1	1000	1000
MW36S	6/14/11	Total Organic Carbon (MG/L)		U	1		
MW36S	6/14/11	trans-1,3-Dichloropropene (UG/L)		U	1		
MW36S	6/14/11	Trichloroethene (UG/L)	2.8		1	5	5
MW36S	6/14/11	Vinyl chloride (UG/L)		U	1	2	2
MW36S	6/14/11	Xylenes, Total (UG/L)		U	3	10000	10000
MW37S	6/15/11	2-Butanone (UG/L)		U	5		
MW37S	6/15/11	Alkalinity, Total (MG/L)	365		10		
MW37S	6/15/11	Aluminum (MG/L)	0.25		0.06		
MW37S	6/15/11	Antimony (MG/L)		U	0.001	6	6

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Well ID	Sample Date	Parameter	Result	Qualifier	Reporting Limit	MCL	Class I ILGWQS
MW37S	6/15/11	Arsenic (MG/L)	0.0013	J	0.003	0.01	0.05
MW37S	6/15/11	Barium (MG/L)	0.074		0.005	2	2
MW37S	6/15/11	Beryllium (MG/L)		U	0.001	0.004	0.004
MW37S	6/15/11	Cadmium (MG/L)	0.00042	J	0.001	0.005	0.005
MW37S	6/15/11	Calcium (MG/L)	85.5		0.5		
MW37S	6/15/11	Chloride (MG/L)	13.8		1		200
MW37S	***6/15/11***	***Chromium (MG/L)***	***0.21***		***0.005***	***0.1***	***0.1***
MW37S	6/15/11	Cobalt (MG/L)	0.0011	J	0.05		1
MW37S	6/15/11	Copper (MG/L)	0.0086	J	0.01	1.3	0.65
MW37S	6/15/11	Iron (MG/L)	3.3		0.14		5
MW37S	6/15/11	Lead (MG/L)		U	0.005	0.015	0.0075
MW37S	6/15/11	Magnesium (MG/L)	37.7		0.2		
MW37S	6/15/11	Manganese (MG/L)	0.1	B	0.003		0.15
MW37S	6/15/11	Mercury (MG/L)		U	0.0004	0.002	0.002
MW37S	6/15/11	Nickel (MG/L)	0.026		0.01		0.1
MW37S	6/15/11	Nitrogen, Nitrate (MG/L)	1.7		0.013	10	10
MW37S	6/15/11	Nitrogen, Nitrite (MG/L)		U	0.014	1	
MW37S	6/15/11	Potassium (MG/L)	5.2		0.5		
MW37S	6/15/11	Selenium (MG/L)		U	0.015		0.1
MW37S	6/15/11	Silver (MG/L)		U	0.003		0.05
MW37S	6/15/11	Sodium (MG/L)	14.6		5		
MW37S	6/15/11	Sulfate (MG/L)	23.7		1		400
MW37S	6/15/11	Sulfide (UG/L)		U	1000		
MW37S	6/15/11	Thallium (MG/L)	0.00003	J	0.001	0.002	0.002
MW37S	6/15/11	Total Cyanide (MG/L)		U	0.02	200	200
MW37S	6/15/11	Total Dissolved Solids (MG/L)	433		10		1200
MW37S	6/15/11	Total Suspended Solids (MG/L)	14.4		4		
MW37S	6/15/11	Vanadium (MG/L)	0.003	J	0.05		
MW37S	6/15/11	Zinc (MG/L)	0.01	J B	0.02		5
MW37S	6/15/11	1,1,1-Trichloroethane (UG/L)		U	1	200	200
MW37S	6/15/11	1,1,2,2-Tetrachloroethane (UG/L)		U	1		
MW37S	6/15/11	1,1,2-Trichloroethane (UG/L)		U	1	5	5
MW37S	6/15/11	1,1-Dichloroethane (UG/L)		U	1		
MW37S	6/15/11	1,1-Dichloroethene (UG/L)		U	1	7	7
MW37S	6/15/11	1,2-Dichloroethane (UG/L)		U	1	5	5
MW37S	6/15/11	1,2-Dichloroethene, Total (UG/L)		U	2		
MW37S	6/15/11	1,2-Dichloropropane (UG/L)		U	1	5	5
MW37S	6/15/11	2-Hexanone (UG/L)		U	10		
MW37S	6/15/11	4-Methyl-2-pentanone (UG/L)		U	5		

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Well ID	Sample Date	Parameter	Result	Qualifier	Reporting Limit	MCL	Class I ILGWQS
MW37S	6/15/11	Acetone (UG/L)		U	5		
MW37S	6/15/11	Benzene (UG/L)	1.6		1	5	5
MW37S	6/15/11	Bromodichloromethane (UG/L)		U	1		
MW37S	6/15/11	Bromoform (UG/L)		U	1		
MW37S	6/15/11	Bromomethane (UG/L)		U	1		
MW37S	6/15/11	Carbon disulfide (UG/L)		U	5		
MW37S	6/15/11	Carbon tetrachloride (UG/L)		U	1	5	5
MW37S	6/15/11	Chlorobenzene (UG/L)		U	1	100	100
MW37S	6/15/11	Chloroethane (UG/L)		U	1		
MW37S	6/15/11	Chloroform (UG/L)		U	1		
MW37S	6/15/11	Chloromethane (UG/L)		U	1		
MW37S	6/15/11	cis-1,3-Dichloropropene (UG/L)		U	1		
MW37S	6/15/11	Dibromochloromethane (UG/L)		U	1		
MW37S	6/15/11	Ethylbenzene (UG/L)		U	1	700	700
MW37S	6/15/11	Methylene Chloride (UG/L)		U	2	5	5
MW37S	6/15/11	Styrene (UG/L)		U	1	100	100
MW37S	6/15/11	Tetrachloroethene (UG/L)		U	1	5	5
MW37S	6/15/11	Toluene (UG/L)	2.1		1	1000	1000
MW37S	6/15/11	Total Organic Carbon (MG/L)		U	1		
MW37S	6/15/11	trans-1,3-Dichloropropene (UG/L)		U	1		
MW37S	6/15/11	Trichloroethene (UG/L)		U	1	5	5
MW37S	6/15/11	Vinyl chloride (UG/L)		U	1	2	2
MW37S	6/15/11	Xylenes, Total (UG/L)	0.82	J	3	10000	10000

Notes:
Chloride and metals concentrations are total.
MCL = US EPA Maximum Contaminant Level.
ILGWQS = Illinois Class I Groundwater Quality Standard.
Laboratory analyses performed by TestAmerica Buffalo.
Nitrate and nitrite analysis performed by Heritage Environmental Services.

Bold indicates exceedance of ILGWQS.

Italics indicates exceedance of MCL.

Bold and italics indicates exceedance of both the MCL and ILGWQS.

Qualifiers:
B = Compound was found in the blank and sample.
J = Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
H = Sample was prepped or analyzed beyond the specified holding time.
^ = ICV, CCV, ICB, CCB, ISA, ISB, CRI, CRA, DLCK or MRL standard: Instrument related QC exceeds the control limits.
* = RPD of the LCS and LCSD exceeds the control limits.
U = Indicates compound/element was analyzed for, but not detected.

Appendix E
Elgin Landfill
Shallow Monitoring Well Network Field Data

Well ID	Sample Date	Parameter	Result	Qualifier	Units
MW9S	6/14/11	Dissolved Oxygen, Field (MG/L)	4.54		MG/L
MW9S	6/14/11	Ferrous Iron (MG/L)	0.1		MG/L
MW9S	6/14/11	pH, Field (SU)	7.12		SU
MW9S	6/14/11	Specific Conductance (UMHOS/CM)	1046		UMHOS/CM
MW9S	6/14/11	Temperature (DEGREES C)	11.5		DEGREES C
MW9S	6/14/11	Water Elevation (FT/MSL)	737.99		FT/MSL
MW20S	6/15/11	Dissolved Oxygen, Field (MG/L)	3.72		MG/L
MW20S	6/15/11	Ferrous Iron (MG/L)	1.1		MG/L
MW20S	6/15/11	pH, Field (SU)	6.88		SU
MW20S	6/15/11	Specific Conductance (UMHOS/CM)	1656		UMHOS/CM
MW20S	6/15/11	Temperature (DEGREES C)	12.4		DEGREES C
MW20S	6/15/11	Water Elevation (FT/MSL)	736.88		FT/MSL
MW21S	6/15/11	Dissolved Oxygen, Field (MG/L)	1.64		MG/L
MW21S	6/15/11	Ferrous Iron (MG/L)	2.4		MG/L
MW21S	6/15/11	pH, Field (SU)	7.3		SU
MW21S	6/15/11	Specific Conductance (UMHOS/CM)	1301		UMHOS/CM
MW21S	6/15/11	Temperature (DEGREES C)	12.5		DEGREES C
MW21S	6/15/11	Water Elevation (FT/MSL)	736.71		FT/MSL
MW24S	6/15/11	Dissolved Oxygen, Field (MG/L)	4		MG/L
MW24S	6/15/11	Ferrous Iron (MG/L)	0		MG/L
MW24S	6/15/11	pH, Field (SU)	7.18		SU
MW24S	6/15/11	Specific Conductance (UMHOS/CM)	923		UMHOS/CM
MW24S	6/15/11	Temperature (DEGREES C)	12.1		DEGREES C
MW24S	6/15/11	Water Elevation (FT/MSL)	738.68		FT/MSL
MW36S	6/14/11	Dissolved Oxygen, Field (MG/L)	4.9		MG/L
MW36S	6/14/11	Ferrous Iron (MG/L)	4.6		MG/L
MW36S	6/14/11	pH, Field (SU)	7.16		SU
MW36S	6/14/11	Specific Conductance (UMHOS/CM)	1009		UMHOS/CM
MW36S	6/14/11	Temperature (DEGREES C)	11.6		DEGREES C
MW36S	6/14/11	Water Elevation (FT/MSL)	736.14		FT/MSL
MW37S	6/15/11	Dissolved Oxygen, Field (MG/L)	8.89		MG/L
MW37S	6/15/11	Ferrous Iron (MG/L)	0		MG/L
MW37S	6/15/11	pH, Field (SU)	7.32		SU
MW37S	6/15/11	Specific Conductance (UMHOS/CM)	667		UMHOS/CM
MW37S	6/15/11	Temperature (DEGREES C)	10.8		DEGREES C
MW37S	6/15/11	Water Elevation (FT/MSL)	736.34		FT/MSL

Appendix E
Tri-County Landfill
Intermediate Monitoring Well Network Analytical Data

Well ID	Sample Date	Parameter	Result	Reporting Limit	Qualifier	Units	MCL	Class I ILGWQS
G142	6/14/2011	Alkalinity, Total	896	10.0		MG/L		
G142	**6/14/2011**	**Chloride**	**472**	**2.8**		**MG/L**		**200**
G142	6/23/2011	Nitrate	0.5	0.5	U	MG/L AS N	10	10
G142	6/23/2011	Nitrite	0.5	0.5	U	MG/L AS N	1	
G142	6/14/2011	Sulfate	3.5	3.5	U	MG/L		400
G142	6/14/2011	Sulfide	1000	1000	U	UG/L		
G142	**6/14/2011**	**Total Dissolved Solids**	**1730**	**10.0**		**MG/L**		**1200**
G142	6/14/2011	Total Organic Carbon	3.9	1.0		MG/L		
G142	6/14/2011	Total Suspended Solids	4	4.0	U	MG/L		
G142	6/14/2011	Aluminum	0.06	0.060	U	MG/L		
G142	6/14/2011	Antimony	0.007	0.0070	U	MG/L	6	6
G142	6/14/2011	Arsenic	0.01	0.010	U	MG/L	0.01	0.05
G142	6/14/2011	Barium	0.6	0.0050		MG/L	2	2
G142	6/14/2011	Beryllium	0.001	0.0010	U	MG/L	0.004	0.004
G142	6/14/2011	Cadmium	0.001	0.0010	U	MG/L	0.005	0.005
G142	6/14/2011	Calcium	104	0.10		MG/L		
G142	6/14/2011	Chromium	0.003	0.0030	U	MG/L	0.1	0.1
G142	6/14/2011	Cobalt	0.0039	0.0030		MG/L		1
G142	6/14/2011	Copper	0.004	0.0040	U	MG/L	1.3	0.65
G142	6/14/2011	Iron	4.4	0.060		MG/L		5
G142	6/14/2011	Lead	0.005	0.0050	U	MG/L	0.015	0.0075
G142	6/14/2011	Magnesium	118	0.050		MG/L		
G142	6/14/2011	Manganese	0.02	0.0010		MG/L		0.15
G142	6/14/2011	Mercury	0.0002	0.00020	U	MG/L	0.002	0.002
G142	6/14/2011	Nickel	0.033	0.0040		MG/L		0.1
G142	6/14/2011	Potassium	22.8	0.20		MG/L		
G142	6/14/2011	Selenium	0.01	0.010	U	MG/L	0.05	0.05
G142	6/14/2011	Silver	0.004	0.0040	U	MG/L		0.05
G142	6/14/2011	Sodium	320	1.0		MG/L		
G142	6/14/2011	Thallium	0.002	0.0020	U	MG/L	0.002	0.002
G142	6/14/2011	Total Cyanide	0.02	0.020	U	MG/L	200	200
G142	6/14/2011	Vanadium	0.003	0.0030	U	MG/L		
G142	6/14/2011	Zinc	0.005	0.0050	U	MG/L		5
G142	6/14/2011	1,1,1-Trichloroethane	1	1.0	U	UG/L	200	200
G142	6/14/2011	1,1,2,2-Tetrachloroethane	1	1.0	U	UG/L		
G142	6/14/2011	1,1,2-Trichloroethane	1	1.0	U	UG/L	5	5
G142	6/14/2011	1,1-Dichloroethane	1	1.0	U	UG/L		
G142	6/14/2011	1,1-Dichloroethene	1	1.0	U	UG/L	7	7
G142	6/14/2011	1,2-Dichloroethane	1	1.0	U	UG/L	5	5

Appendix E
Tri-County Landfill
Intermediate Monitoring Well Network Analytical Data

Well ID	Sample Date	Parameter	Result	Reporting Limit	Qualifier	Units	MCL	Class I ILGWQS
G142	6/14/2011	1,2-Dichloropropane	1	1.0	U	UG/L	5	5
G142	6/14/2011	2-Hexanone	10	10	U	UG/L		
G142	6/14/2011	Acetone	10	10	U	UG/L		
G142	6/14/2011	Benzene	1	1.0	U	UG/L	5	5
G142	6/14/2011	Bromodichloromethane	1	1.0	U	UG/L		
G142	6/14/2011	Bromoform	1	1.0	U	UG/L		
G142	6/14/2011	Bromomethane	1	1.0	U	UG/L		
G142	6/14/2011	Carbon disulfide	5	5.0	U	UG/L		
G142	6/14/2011	Carbon tetrachloride	1	1.0	U	UG/L	5	5
G142	6/14/2011	Chlorobenzene	1	1.0	U	UG/L	100	100
G142	6/14/2011	Chloroethane	1	1.0	U	UG/L		
G142	6/14/2011	Chloroform	1	1.0	U	UG/L		
G142	6/14/2011	Chloromethane	1	1.0	U	UG/L		
G142	6/14/2011	cis-1,2-Dichloroethene	1	1.0	U	UG/L	70	70
G142	6/14/2011	cis-1,3-Dichloropropene	1	1.0	U	UG/L		
G142	6/14/2011	Dibromochloromethane	1	1.0	U	UG/L		
G142	6/14/2011	Ethylbenzene	1	1.0	U	UG/L	700	700
G142	6/14/2011	Ketone, ethyl methyl	10	10	U	UG/L		
G142	6/14/2011	methyl isobutyl ketone	10	10	U	UG/L		
G142	6/14/2011	Methylene Chloride	2	2.0	U	UG/L	5	5
G142	6/14/2011	Styrene	1	1.0	U	UG/L	100	100
G142	6/14/2011	Tetrachloroethene	1	1.0	U	UG/L	5	5
G142	6/14/2011	Toluene	1	1.0	U	UG/L	1000	1000
G142	6/14/2011	trans-1,2-Dichloroethene	1	1.0	U	UG/L	100	100
G142	6/14/2011	trans-1,3-Dichloropropene	1	1.0	U	UG/L		
G142	6/14/2011	Trichloroethene	1	1.0	U	UG/L	5	5
G142	6/14/2011	Vinyl chloride	1	1.0	U	UG/L	2	2
G142	6/14/2011	Xylenes, Total	3	3.0	U	UG/L	10000	10000
MW1I1	6/16/2011	Alkalinity, Total	379	10.0		MG/L		
MW1I1	6/16/2011	Chloride	153	1.0		MG/L		200
MW1I1	6/30/2011	Nitrate	0.5	0.5	U	MG/L AS N	10	10
MW1I1	6/30/2011	Nitrite	0.5	0.5	U	MG/L AS N	1	
MW1I1	6/16/2011	Sulfate	20.9	1.0		MG/L		400
MW1I1	6/16/2011	Sulfide	1000	1000	U	UG/L		
MW1I1	6/16/2011	Total Dissolved Solids	763	10.0		MG/L		1200
MW1I1	6/16/2011	Total Organic Carbon	1	1.0	U	MG/L		
MW1I1	6/16/2011	Total Suspended Solids	4	4.0	U	MG/L		
MW1I1	6/16/2011	1,1,1-Trichloroethane	1	1.0	U	UG/L	200	200
MW1I1	6/16/2011	1,1,2,2-Tetrachloroethane	1	1.0	U	UG/L		

Appendix E
Tri-County Landfill
Intermediate Monitoring Well Network Analytical Data

Well ID	Sample Date	Parameter	Result	Reporting Limit	Qualifier	Units	MCL	Class I ILGWQS
MW1I1	6/16/2011	1,1,2-Trichloroethane	1	1.0	U	UG/L	5	5
MW1I1	6/16/2011	1,1-Dichloroethane	1	1.0	U	UG/L		
MW1I1	6/16/2011	1,1-Dichloroethene	1	1.0	U	UG/L	7	7
MW1I1	6/16/2011	1,2-Dichloroethane	1	1.0	U	UG/L	5	5
MW1I1	6/16/2011	1,2-Dichloropropane	1	1.0	U	UG/L	5	5
MW1I1	6/16/2011	2-Hexanone	10	10	U	UG/L		
MW1I1	6/16/2011	Acetone	10	10	U	UG/L		
MW1I1	6/16/2011	Benzene	1	1.0	U	UG/L	5	5
MW1I1	6/16/2011	Bromodichloromethane	1	1.0	U	UG/L		
MW1I1	6/16/2011	Bromoform	1	1.0	U	UG/L		
MW1I1	6/16/2011	Bromomethane	1	1.0	U	UG/L		
MW1I1	6/16/2011	Carbon disulfide	5	5.0	U	UG/L		
MW1I1	6/16/2011	Carbon tetrachloride	1	1.0	U	UG/L	5	5
MW1I1	6/16/2011	Chlorobenzene	1	1.0	U	UG/L	100	100
MW1I1	6/16/2011	Chloroethane	1	1.0	U	UG/L		
MW1I1	6/16/2011	Chloroform	1	1.0	U	UG/L		
MW1I1	6/16/2011	Chloromethane	1	1.0	U	UG/L		
MW1I1	6/16/2011	cis-1,2-Dichloroethene	1	1.0	U	UG/L	70	70
MW1I1	6/16/2011	cis-1,3-Dichloropropene	1	1.0	U	UG/L		
MW1I1	6/16/2011	Dibromochloromethane	1	1.0	U	UG/L		
MW1I1	6/16/2011	Ethylbenzene	1	1.0	U	UG/L	700	700
MW1I1	6/16/2011	Ketone, ethyl methyl	10	10	U	UG/L		
MW1I1	6/16/2011	methyl isobutyl ketone	10	10	U	UG/L		
MW1I1	6/16/2011	Methylene Chloride	2	2.0	U	UG/L	5	5
MW1I1	6/16/2011	Styrene	1	1.0	U	UG/L	100	100
MW1I1	6/16/2011	Tetrachloroethene	1	1.0	U	UG/L	5	5
MW1I1	6/16/2011	Toluene	1	1.0	U	UG/L	1000	1000
MW1I1	6/16/2011	trans-1,2-Dichloroethene	1	1.0	U	UG/L	100	100
MW1I1	6/16/2011	trans-1,3-Dichloropropene	1	1.0	U	UG/L		
MW1I1	6/16/2011	Trichloroethene	1	1.0	U	UG/L	5	5
MW1I1	6/16/2011	Vinyl chloride	1	1.0	U	UG/L	2	2
MW1I1	6/16/2011	Xylenes, Total	3	3.0	U	UG/L	10000	10000
MW1I2	6/16/2011	Alkalinity, Total	427	10.0		MG/L		
MW1I2	6/16/2011	Chloride	183	1.0		MG/L		200
MW1I2	6/30/2011	Nitrate	0.5	0.5	U	MG/L AS N	10	10
MW1I2	6/30/2011	Nitrite	0.5	0.5	U	MG/L AS N	1	
MW1I2	6/16/2011	Sulfate	33.7	1.0		MG/L		400
MW1I2	6/16/2011	Sulfide	1000	1000	U	UG/L		
MW1I2	6/16/2011	Total Dissolved Solids	830	10.0		MG/L		1200

Appendix E
Tri-County Landfill
Intermediate Monitoring Well Network Analytical Data

Well ID	Sample Date	Parameter	Result	Reporting Limit	Qualifier	Units	MCL	Class I ILGWQS
MW1I2	6/16/2011	Total Organic Carbon	1	1.0	U	MG/L		
MW1I2	6/16/2011	Total Suspended Solids	7.2	4.0		MG/L		
MW1I2	6/16/2011	1,1,1-Trichloroethane	1	1.0	U	UG/L	200	200
MW1I2	6/16/2011	1,1,2,2-Tetrachloroethane	1	1.0	U	UG/L		
MW1I2	6/16/2011	1,1,2-Trichloroethane	1	1.0	U	UG/L	5	5
MW1I2	6/16/2011	1,1-Dichloroethane	1	1.0	U	UG/L		
MW1I2	6/16/2011	1,1-Dichloroethene	1	1.0	U	UG/L	7	7
MW1I2	6/16/2011	1,2-Dichloroethane	1	1.0	U	UG/L	5	5
MW1I2	6/16/2011	1,2-Dichloropropane	1	1.0	U	UG/L	5	5
MW1I2	6/16/2011	2-Hexanone	10	10	U	UG/L		
MW1I2	6/16/2011	Acetone	10	10	U	UG/L		
MW1I2	6/16/2011	Benzene	1	1.0	U	UG/L	5	5
MW1I2	6/16/2011	Bromodichloromethane	1	1.0	U	UG/L		
MW1I2	6/16/2011	Bromoform	1	1.0	U	UG/L		
MW1I2	6/16/2011	Bromomethane	1	1.0	U	UG/L		
MW1I2	6/16/2011	Carbon disulfide	5	5.0	U	UG/L		
MW1I2	6/16/2011	Carbon tetrachloride	1	1.0	U	UG/L	5	5
MW1I2	6/16/2011	Chlorobenzene	1	1.0	U	UG/L	100	100
MW1I2	6/16/2011	Chloroethane	1	1.0	U	UG/L		
MW1I2	6/16/2011	Chloroform	1	1.0	U	UG/L		
MW1I2	6/16/2011	Chloromethane	1	1.0	U	UG/L		
MW1I2	6/16/2011	cis-1,2-Dichloroethene	1	1.0	U	UG/L	70	70
MW1I2	6/16/2011	cis-1,3-Dichloropropene	1	1.0	U	UG/L		
MW1I2	6/16/2011	Dibromochloromethane	1	1.0	U	UG/L		
MW1I2	6/16/2011	Ethylbenzene	1	1.0	U	UG/L	700	700
MW1I2	6/16/2011	Ketone, ethyl methyl	10	10	U	UG/L		
MW1I2	6/16/2011	methyl isobutyl ketone	10	10	U	UG/L		
MW1I2	6/16/2011	Methylene Chloride	2	2.0	U	UG/L	5	5
MW1I2	6/16/2011	Styrene	1	1.0	U	UG/L	100	100
MW1I2	6/16/2011	Tetrachloroethene	1	1.0	U	UG/L	5	5
MW1I2	6/16/2011	Toluene	1	1.0	U	UG/L	1000	1000
MW1I2	6/16/2011	trans-1,2-Dichloroethene	1	1.0	U	UG/L	100	100
MW1I2	6/16/2011	trans-1,3-Dichloropropene	1	1.0	U	UG/L		
MW1I2	6/16/2011	Trichloroethene	1	1.0	U	UG/L	5	5
MW1I2	6/16/2011	Vinyl chloride	1	1.0	U	UG/L	2	2
MW1I2	6/16/2011	Xylenes, Total	3	3.0	U	UG/L	10000	10000
MW2IR	6/14/2011	Alkalinity, Total	219	10.0		MG/L		
MW2IR	6/14/2011	Chloride	1	1.0	U	MG/L		200
MW2IR	6/23/2011	Nitrate	0.5	0.5	U	MG/L AS N	10	10

Appendix E
Tri-County Landfill
Intermediate Monitoring Well Network Analytical Data

Well ID	Sample Date	Parameter	Result	Reporting Limit	Qualifier	Units	MCL	Class I ILGWQS
MW2IR	6/23/2011	Nitrite	0.5	0.5	U	MG/L AS N	1	
MW2IR	6/14/2011	Sulfate	1	1.0	U	MG/L		400
MW2IR	6/14/2011	Sulfide	1000	1000	U	UG/L		
MW2IR	6/14/2011	Total Dissolved Solids	206	10.0		MG/L		1200
MW2IR	6/14/2011	Total Organic Carbon	1	1.0	U	MG/L		
MW2IR	6/14/2011	Total Suspended Solids	4	4.0	U	MG/L		
MW2IR	6/14/2011	Aluminum	0.06	0.060	U	MG/L		
MW2IR	6/14/2011	Antimony	0.007	0.0070	U	MG/L	6	6
MW2IR	6/14/2011	Arsenic	0.01	0.010	U	MG/L	0.01	0.05
MW2IR	6/14/2011	Barium	0.043	0.0050		MG/L	2	2
MW2IR	6/14/2011	Beryllium	0.001	0.0010	U	MG/L	0.004	0.004
MW2IR	6/14/2011	Cadmium	0.001	0.0010	U	MG/L	0.005	0.005
MW2IR	6/14/2011	Calcium	36.4	0.10		MG/L		
MW2IR	6/14/2011	Chromium	0.003	0.0030	U	MG/L	0.1	0.1
MW2IR	6/14/2011	Cobalt	0.003	0.0030	U	MG/L		1
MW2IR	6/14/2011	Copper	0.004	0.0040	U	MG/L	1.3	0.65
MW2IR	6/14/2011	Iron	1.1	0.060		MG/L		5
MW2IR	6/14/2011	Lead	0.005	0.0050	U	MG/L	0.015	0.0075
MW2IR	6/14/2011	Magnesium	20.9	0.050		MG/L		
MW2IR	6/14/2011	Manganese	0.023	0.0010		MG/L		0.15
MW2IR	6/14/2011	Mercury	0.0002	0.00020	U	MG/L	0.002	0.002
MW2IR	6/14/2011	Nickel	0.004	0.0040	U	MG/L		0.1
MW2IR	6/14/2011	Potassium	1	0.20		MG/L		
MW2IR	6/14/2011	Selenium	0.01	0.010	U	MG/L	0.05	0.05
MW2IR	6/14/2011	Silver	0.004	0.0040	U	MG/L		0.05
MW2IR	6/14/2011	Sodium	21.4	1.0		MG/L		
MW2IR	6/14/2011	Thallium	0.002	0.0020	U	MG/L	0.002	0.002
MW2IR	6/14/2011	Total Cyanide	0.02	0.020	U	MG/L	200	200
MW2IR	6/14/2011	Vanadium	0.003	0.0030	U	MG/L		
MW2IR	6/14/2011	Zinc	0.005	0.0050	U	MG/L		5
MW2IR	6/14/2011	1,1,1-Trichloroethane	1	1.0	U	UG/L	200	200
MW2IR	6/14/2011	1,1,2,2-Tetrachloroethane	1	1.0	U	UG/L		
MW2IR	6/14/2011	1,1,2-Trichloroethane	1	1.0	U	UG/L	5	5
MW2IR	6/14/2011	1,1-Dichloroethane	1	1.0	U	UG/L		
MW2IR	6/14/2011	1,1-Dichloroethene	1	1.0	U	UG/L	7	7
MW2IR	6/14/2011	1,2-Dichloroethane	1	1.0	U	UG/L	5	5
MW2IR	6/14/2011	1,2-Dichloropropane	1	1.0	U	UG/L	5	5
MW2IR	6/14/2011	2-Hexanone	10	10	U	UG/L		
MW2IR	6/14/2011	Acetone	10	10	U	UG/L		

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Well ID	Sample Date	Parameter	Result	Reporting Limit	Qualifier	Units	MCL	Class I ILGWQS
MW2IR	6/14/2011	Benzene	1	1.0	U	UG/L	5	5
MW2IR	6/14/2011	Bromodichloromethane	1	1.0	U	UG/L		
MW2IR	6/14/2011	Bromoform	1	1.0	U	UG/L		
MW2IR	6/14/2011	Bromomethane	1	1.0	U	UG/L		
MW2IR	6/14/2011	Carbon disulfide	5	5.0	U	UG/L		
MW2IR	6/14/2011	Carbon tetrachloride	1	1.0	U	UG/L	5	5
MW2IR	6/14/2011	Chlorobenzene	1	1.0	U	UG/L	100	100
MW2IR	6/14/2011	Chloroethane	1	1.0	U	UG/L		
MW2IR	6/14/2011	Chloroform	1	1.0	U	UG/L		
MW2IR	6/14/2011	Chloromethane	1	1.0	U	UG/L		
MW2IR	6/14/2011	cis-1,2-Dichloroethene	1	1.0	U	UG/L	70	70
MW2IR	6/14/2011	cis-1,3-Dichloropropene	1	1.0	U	UG/L		
MW2IR	6/14/2011	Dibromochloromethane	1	1.0	U	UG/L		
MW2IR	6/14/2011	Ethylbenzene	1	1.0	U	UG/L	700	700
MW2IR	6/14/2011	Ketone, ethyl methyl	10	10	U	UG/L		
MW2IR	6/14/2011	methyl isobutyl ketone	10	10	U	UG/L		
MW2IR	6/14/2011	Methylene Chloride	2	2.0	U	UG/L	5	5
MW2IR	6/14/2011	Styrene	1	1.0	U	UG/L	100	100
MW2IR	6/14/2011	Tetrachloroethene	1	1.0	U	UG/L	5	5
MW2IR	6/14/2011	Toluene	1	1.0	U	UG/L	1000	1000
MW2IR	6/14/2011	trans-1,2-Dichloroethene	1	1.0	U	UG/L	100	100
MW2IR	6/14/2011	trans-1,3-Dichloropropene	1	1.0	U	UG/L		
MW2IR	6/14/2011	Trichloroethene	1	1.0	U	UG/L	5	5
MW2IR	6/14/2011	Vinyl chloride	1	1.0	U	UG/L	2	2
MW2IR	6/14/2011	Xylenes, Total	3	3.0	U	UG/L	10000	10000
MW5IR	6/15/2011	Alkalinity, Total	288	10.0		MG/L		
MW5IR	6/15/2011	Chloride	19	1.0		MG/L		200
MW5IR	6/15/2011	Nitrate	0.5	0.5	U	MG/L AS N	10	10
MW5IR	6/15/2011	Nitrite	0.5	0.5	U	MG/L AS N	1	
MW5IR	6/15/2011	Sulfate	35.9	1.0		MG/L		400
MW5IR	6/15/2011	Sulfide	1000	1000	U	UG/L		
MW5IR	6/15/2011	Total Dissolved Solids	355	10.0		MG/L		1200
MW5IR	6/15/2011	Total Organic Carbon	1.4	1.0		MG/L		
MW5IR	6/15/2011	Total Suspended Solids	7.2	4.0		MG/L		
MW5IR	6/15/2011	Aluminum	0.06	0.060	U	MG/L		
MW5IR	6/15/2011	Antimony	0.007	0.0070	U	MG/L	6	6
MW5IR	6/15/2011	Arsenic	0.01	0.010	U	MG/L	0.01	0.05
MW5IR	6/15/2011	Barium	0.079	0.0050		MG/L	2	2
MW5IR	6/15/2011	Beryllium	0.001	0.0010	U	MG/L	0.004	0.004

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Well ID	Sample Date	Parameter	Result	Reporting Limit	Qualifier	Units	MCL	Class I ILGWQS
MW5IR	6/15/2011	Cadmium	0.001	0.0010	U	MG/L	0.005	0.005
MW5IR	6/15/2011	Calcium	50.5	0.10		MG/L		
MW5IR	6/15/2011	Chromium	0.003	0.0030	U	MG/L	0.1	0.1
MW5IR	6/15/2011	Cobalt	0.003	0.0030	U	MG/L		1
MW5IR	6/15/2011	Copper	0.004	0.0040	U	MG/L	1.3	0.65
MW5IR	6/15/2011	Iron	1.5	0.060		MG/L		5
MW5IR	6/15/2011	Lead	0.005	0.0050	U	MG/L	0.015	0.0075
MW5IR	6/15/2011	Magnesium	47.8	0.050		MG/L		
MW5IR	6/15/2011	Manganese	0.025	0.0010		MG/L		0.15
MW5IR	6/15/2011	Mercury	0.0002	0.00020	U	MG/L	0.002	0.002
MW5IR	6/15/2011	Nickel	0.0072	0.0040		MG/L		0.1
MW5IR	6/15/2011	Potassium	1.4	0.20	B	MG/L		
MW5IR	6/15/2011	Selenium	0.01	0.010	U	MG/L	0.05	0.05
MW5IR	6/15/2011	Silver	0.004	0.0040	U	MG/L		0.05
MW5IR	6/15/2011	Sodium	30.5	1.0		MG/L		
MW5IR	6/15/2011	Thallium	0.002	0.0020	U	MG/L	0.002	0.002
MW5IR	6/15/2011	Total Cyanide	0.02	0.020	U	MG/L	200	200
MW5IR	6/15/2011	Vanadium	0.003	0.0030	U	MG/L		
MW5IR	6/15/2011	Zinc	0.005	0.0050	U	MG/L		5
MW5IR	6/15/2011	1,1,1-Trichloroethane	1	1.0	U	UG/L	200	200
MW5IR	6/15/2011	1,1,2,2-Tetrachloroethane	1	1.0	U	UG/L		
MW5IR	6/15/2011	1,1,2-Trichloroethane	1	1.0	U	UG/L	5	5
MW5IR	6/15/2011	1,1-Dichloroethane	1	1.0	U	UG/L		
MW5IR	6/15/2011	1,1-Dichloroethene	1	1.0	U	UG/L	7	7
MW5IR	6/15/2011	1,2-Dichloroethane	1	1.0	U	UG/L	5	5
MW5IR	6/15/2011	1,2-Dichloropropane	1	1.0	U	UG/L	5	5
MW5IR	6/15/2011	2-Hexanone	10	10	U	UG/L		
MW5IR	6/15/2011	Acetone	10	10	U	UG/L		
MW5IR	6/15/2011	Benzene	1	1.0	U	UG/L	5	5
MW5IR	6/15/2011	Bromodichloromethane	1	1.0	U	UG/L		
MW5IR	6/15/2011	Bromoform	1	1.0	U	UG/L		
MW5IR	6/15/2011	Bromomethane	1	1.0	U	UG/L		
MW5IR	6/15/2011	Carbon disulfide	5	5.0	U	UG/L		
MW5IR	6/15/2011	Carbon tetrachloride	1	1.0	U	UG/L	5	5
MW5IR	6/15/2011	Chlorobenzene	1	1.0	U	UG/L	100	100
MW5IR	6/15/2011	Chloroethane	1	1.0	U	UG/L		
MW5IR	6/15/2011	Chloroform	1	1.0	U	UG/L		
MW5IR	6/15/2011	Chloromethane	1	1.0	U	UG/L		
MW5IR	6/15/2011	cis-1,2-Dichloroethene	1	1.0	U	UG/L	70	70

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MW5IR	6/15/2011	cis-1,3-Dichloropropene	1	1.0	U	UG/L		
MW5IR	6/15/2011	Dibromochloromethane	1	1.0	U	UG/L		
MW5IR	6/15/2011	Ethylbenzene	1	1.0	U	UG/L	700	700
MW5IR	6/15/2011	Ketone, ethyl methyl	10	10	U	UG/L		
MW5IR	6/15/2011	methyl isobutyl ketone	10	10	U	UG/L		
MW5IR	6/15/2011	Methylene Chloride	2	2.0	U	UG/L	5	5
MW5IR	6/15/2011	Styrene	1	1.0	U	UG/L	100	100
MW5IR	6/15/2011	Tetrachloroethene	1	1.0	U	UG/L	5	5
MW5IR	6/15/2011	Toluene	1	1.0	U	UG/L	1000	1000
MW5IR	6/15/2011	trans-1,2-Dichloroethene	1	1.0	U	UG/L	100	100
MW5IR	6/15/2011	trans-1,3-Dichloropropene	1	1.0	U	UG/L		
MW5IR	6/15/2011	Trichloroethene	1	1.0	U	UG/L	5	5
MW5IR	6/15/2011	Vinyl chloride	1	1.0	U	UG/L	2	2
MW5IR	6/15/2011	Xylenes, Total	3	3.0	U	UG/L	10000	10000
MW6I	6/15/2011	Alkalinity, Total	395	10.0		MG/L		
MW6I	6/15/2011	Chloride	114	1.0		MG/L		200
MW6I	6/15/2011	Nitrate	0.5	0.5	U	MG/L AS N	10	10
MW6I	6/15/2011	Nitrite	0.5	0.5	U	MG/L AS N	1	
MW6I	6/15/2011	Sulfate	1	1.0	U	MG/L		400
MW6I	6/15/2011	Sulfide	1000	1000	U	UG/L		
MW6I	6/15/2011	Total Dissolved Solids	543	10.0		MG/L		1200
MW6I	6/15/2011	Total Organic Carbon	1	1.0	U	MG/L		
MW6I	6/15/2011	Total Suspended Solids	18.8	4.0		MG/L		
MW6I	6/15/2011	Aluminum	0.14	0.060		MG/L		
MW6I	6/15/2011	Antimony	0.007	0.0070	U	MG/L	6	6
MW6I	6/15/2011	Arsenic	0.01	0.010	U	MG/L	0.01	0.05
MW6I	6/15/2011	Barium	0.24	0.0050		MG/L	2	2
MW6I	6/15/2011	Beryllium	0.001	0.0010	U	MG/L	0.004	0.004
MW6I	6/15/2011	Cadmium	0.001	0.0010	U	MG/L	0.005	0.005
MW6I	6/15/2011	Calcium	69.2	0.10		MG/L		
MW6I	6/15/2011	Chromium	0.003	0.0030	U	MG/L	0.1	0.1
MW6I	6/15/2011	Cobalt	0.003	0.0030	U	MG/L		1
MW6I	6/15/2011	Copper	0.004	0.0040	U	MG/L	1.3	0.65
MW6I	**6/15/2011**	**Iron**	**5.2**	**0.060**		**MG/L**		**5**
MW6I	6/15/2011	Lead	0.005	0.0050	U	MG/L	0.015	0.0075
MW6I	6/15/2011	Magnesium	49.1	0.050		MG/L		
MW6I	6/15/2011	Manganese	0.041	0.0010		MG/L		0.15
MW6I	6/15/2011	Mercury	0.0002	0.00020	U	MG/L	0.002	0.002
MW6I	6/15/2011	Nickel	0.004	0.0040	U	MG/L		0.1

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MW6I	6/15/2011	Potassium	9.9	0.20	B	MG/L		
MW6I	6/15/2011	Selenium	0.01	0.010	U	MG/L	0.05	0.05
MW6I	6/15/2011	Silver	0.004	0.0040	U	MG/L		0.05
MW6I	6/15/2011	Sodium	60.2	1.0		MG/L		
MW6I	6/15/2011	Thallium	0.002	0.0020	U	MG/L	0.002	0.002
MW6I	6/15/2011	Total Cyanide	0.02	0.020	U	MG/L	200	200
MW6I	6/15/2011	Vanadium	0.003	0.0030	U	MG/L		
MW6I	6/15/2011	Zinc	0.005	0.0050	U	MG/L		5
MW6I	6/15/2011	1,1,1-Trichloroethane	1	1.0	U	UG/L	200	200
MW6I	6/15/2011	1,1,2,2-Tetrachloroethane	1	1.0	U	UG/L		
MW6I	6/15/2011	1,1,2-Trichloroethane	1	1.0	U	UG/L	5	5
MW6I	6/15/2011	1,1-Dichloroethane	1	1.0	U	UG/L		
MW6I	6/15/2011	1,1-Dichloroethene	1	1.0	U	UG/L	7	7
MW6I	6/15/2011	1,2-Dichloroethane	1	1.0	U	UG/L	5	5
MW6I	6/15/2011	1,2-Dichloropropane	1	1.0	U	UG/L	5	5
MW6I	6/15/2011	2-Hexanone	10	10	U	UG/L		
MW6I	6/15/2011	Acetone	10	10	U	UG/L		
MW6I	6/15/2011	Benzene	1	1.0	U	UG/L	5	5
MW6I	6/15/2011	Bromodichloromethane	1	1.0	U	UG/L		
MW6I	6/15/2011	Bromoform	1	1.0	U	UG/L		
MW6I	6/15/2011	Bromomethane	1	1.0	U	UG/L		
MW6I	6/15/2011	Carbon disulfide	5	5.0	U	UG/L		
MW6I	6/15/2011	Carbon tetrachloride	1	1.0	U	UG/L	5	5
MW6I	6/15/2011	Chlorobenzene	1	1.0	U	UG/L	100	100
MW6I	6/15/2011	Chloroethane	3.1	1.0		UG/L		
MW6I	6/15/2011	Chloroform	1	1.0	U	UG/L		
MW6I	6/15/2011	Chloromethane	1	1.0	U	UG/L		
MW6I	6/15/2011	cis-1,2-Dichloroethene	1	1.0	U	UG/L	70	70
MW6I	6/15/2011	cis-1,3-Dichloropropene	1	1.0	U	UG/L		
MW6I	6/15/2011	Dibromochloromethane	1	1.0	U	UG/L		
MW6I	6/15/2011	Ethylbenzene	1	1.0	U	UG/L	700	700
MW6I	6/15/2011	Ketone, ethyl methyl	10	10	U	UG/L		
MW6I	6/15/2011	methyl isobutyl ketone	10	10	U	UG/L		
MW6I	6/15/2011	Methylene Chloride	2	2.0	U	UG/L	5	5
MW6I	6/15/2011	Styrene	1	1.0	U	UG/L	100	100
MW6I	6/15/2011	Tetrachloroethene	1	1.0	U	UG/L	5	5
MW6I	6/15/2011	Toluene	1	1.0	U	UG/L	1000	1000
MW6I	6/15/2011	trans-1,2-Dichloroethene	1	1.0	U	UG/L	100	100
MW6I	6/15/2011	trans-1,3-Dichloropropene	1	1.0	U	UG/L		

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MW6I	6/15/2011	Trichloroethene	1	1.0	U	UG/L	5	5
MW6I	6/15/2011	Vinyl chloride	1	1.0	U	UG/L	2	2
MW6I	6/15/2011	Xylenes, Total	3	3.0	U	UG/L	10000	10000
MW10I	6/15/2011	Alkalinity, Total	310	10.0		MG/L		
MW10I	6/15/2011	Chloride	3.3	1.0		MG/L		200
MW10I	6/15/2011	Nitrate	0.5	0.5	U	MG/L AS N	10	10
MW10I	6/15/2011	Nitrite	0.5	0.5	U	MG/L AS N	1	
MW10I	6/15/2011	Sulfate	22.6	1.0		MG/L		400
MW10I	6/15/2011	Sulfide	1000	1000	U	UG/L		
MW10I	6/15/2011	Total Dissolved Solids	318	10.0		MG/L		1200
MW10I	6/15/2011	Total Organic Carbon	1	1.0	U	MG/L		
MW10I	6/15/2011	Total Suspended Solids	596	20.0		MG/L		
MW10I	6/15/2011	Aluminum	11.7	0.060		MG/L		
MW10I	6/15/2011	Antimony	0.007	0.0070	U	MG/L	6	6
MW10I	6/15/2011	Arsenic	0.01	0.010	U	MG/L	0.01	0.05
MW10I	6/15/2011	Barium	0.1	0.0050		MG/L	2	2
MW10I	6/15/2011	Beryllium	0.001	0.0010	U	MG/L	0.004	0.004
MW10I	6/15/2011	Cadmium	0.001	0.0010	U	MG/L	0.005	0.005
MW10I	6/15/2011	Calcium	80.9	0.10		MG/L		
MW10I	6/15/2011	Chromium	0.022	0.0030		MG/L	0.1	0.1
MW10I	6/15/2011	Cobalt	0.003	0.0030	U	MG/L		1
MW10I	6/15/2011	Copper	0.01	0.0040		MG/L	1.3	0.65
MW10I	**6/15/2011**	**Iron**	**7.4**	**0.060**		**MG/L**		**5**
MW10I	**6/15/2011**	**Lead**	**0.0086**	**0.0050**		**MG/L**	**0.015**	**0.0075**
MW10I	6/15/2011	Magnesium	45.5	0.050		MG/L		
MW10I	6/15/2011	Manganese	0.11	0.0010		MG/L		0.15
MW10I	6/15/2011	Mercury	0.0002	0.00020	U	MG/L	0.002	0.002
MW10I	6/15/2011	Nickel	0.011	0.0040		MG/L		0.1
MW10I	6/15/2011	Potassium	1.6	0.20	B	MG/L		
MW10I	6/15/2011	Selenium	0.01	0.010	U	MG/L	0.05	0.05
MW10I	6/15/2011	Silver	0.004	0.0040	U	MG/L		0.05
MW10I	6/15/2011	Sodium	6.1	1.0		MG/L		
MW10I	6/15/2011	Thallium	0.002	0.0020	U	MG/L	0.002	0.002
MW10I	6/15/2011	Total Cyanide	0.02	0.020	U	MG/L	200	200
MW10I	6/15/2011	Vanadium	0.013	0.0030		MG/L		
MW10I	6/15/2011	Zinc	0.039	0.0050		MG/L		5
MW10I	6/15/2011	1,1,1-Trichloroethane	1	1.0	U	UG/L	200	200
MW10I	6/15/2011	1,1,2,2-Tetrachloroethane	1	1.0	U	UG/L		
MW10I	6/15/2011	1,1,2-Trichloroethane	1	1.0	U	UG/L	5	5

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MW10I	6/15/2011	1,1-Dichloroethane	1	1.0	U	UG/L		
MW10I	6/15/2011	1,1-Dichloroethene	1	1.0	U	UG/L	7	7
MW10I	6/15/2011	1,2-Dichloroethane	1	1.0	U	UG/L	5	5
MW10I	6/15/2011	1,2-Dichloropropane	1	1.0	U	UG/L	5	5
MW10I	6/15/2011	2-Hexanone	10	10	U	UG/L		
MW10I	6/15/2011	Acetone	10	10	U	UG/L		
MW10I	6/15/2011	Benzene	1	1.0	U	UG/L	5	5
MW10I	6/15/2011	Bromodichloromethane	1	1.0	U	UG/L		
MW10I	6/15/2011	Bromoform	1	1.0	U	UG/L		
MW10I	6/15/2011	Bromomethane	1	1.0	U	UG/L		
MW10I	6/15/2011	Carbon disulfide	5	5.0	U	UG/L		
MW10I	6/15/2011	Carbon tetrachloride	1	1.0	U	UG/L	5	5
MW10I	6/15/2011	Chlorobenzene	1	1.0	U	UG/L	100	100
MW10I	6/15/2011	Chloroethane	1	1.0	U	UG/L		
MW10I	6/15/2011	Chloroform	1	1.0	U	UG/L		
MW10I	6/15/2011	Chloromethane	1	1.0	U	UG/L		
MW10I	6/15/2011	cis-1,2-Dichloroethene	1	1.0	U	UG/L	70	70
MW10I	6/15/2011	cis-1,3-Dichloropropene	1	1.0	U	UG/L		
MW10I	6/15/2011	Dibromochloromethane	1	1.0	U	UG/L		
MW10I	6/15/2011	Ethylbenzene	1	1.0	U	UG/L	700	700
MW10I	6/15/2011	Ketone, ethyl methyl	10	10	U	UG/L		
MW10I	6/15/2011	methyl isobutyl ketone	10	10	U	UG/L		
MW10I	6/15/2011	Methylene Chloride	2	2.0	U	UG/L	5	5
MW10I	6/15/2011	Styrene	1	1.0	U	UG/L	100	100
MW10I	6/15/2011	Tetrachloroethene	1	1.0	U	UG/L	5	5
MW10I	6/15/2011	Toluene	1	1.0	U	UG/L	1000	1000
MW10I	6/15/2011	trans-1,2-Dichloroethene	1	1.0	U	UG/L	100	100
MW10I	6/15/2011	trans-1,3-Dichloropropene	1	1.0	U	UG/L		
MW10I	6/15/2011	Trichloroethene	1	1.0	U	UG/L	5	5
MW10I	6/15/2011	Vinyl chloride	1	1.0	U	UG/L	2	2
MW10I	6/15/2011	Xylenes, Total	3	3.0	U	UG/L	10000	10000
MW12IR	6/17/2011	Alkalinity, Total	273	10.0		MG/L		
MW12IR	6/17/2011	Chloride	71.6	1.0		MG/L		200
MW12IR	6/17/2011	Nitrate	1.05	0.5		MG/L AS N	10	10
MW12IR	6/17/2011	Nitrite	0.5	0.5	U	MG/L AS N	1	
MW12IR	6/17/2011	Sulfate	46.5	1.0		MG/L		400
MW12IR	6/17/2011	Sulfide	1000	1000	U	UG/L		
MW12IR	6/17/2011	Total Dissolved Solids	492	10.0		MG/L		1200
MW12IR	6/17/2011	Total Organic Carbon	5.4	1.0		MG/L		

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Well ID	Sample Date	Parameter	Result	Reporting Limit	Qualifier	Units	MCL	Class I ILGWQS
MW12IR	6/17/2011	Total Suspended Solids	16.8	4.0		MG/L		
MW12IR	6/17/2011	Aluminum	0.11	0.060		MG/L		
MW12IR	6/17/2011	Antimony	0.007	0.0070	U	MG/L	6	6
MW12IR	*6/17/2011*	*Arsenic*	*0.017*	*0.010*		*MG/L*	*0.01*	*0.05*
MW12IR	6/17/2011	Barium	0.13	0.0050		MG/L	2	2
MW12IR	6/17/2011	Beryllium	0.001	0.0010	U	MG/L	0.004	0.004
MW12IR	6/17/2011	Cadmium	0.001	0.0010	U	MG/L	0.005	0.005
MW12IR	6/17/2011	Calcium	75.6	0.10		MG/L		
MW12IR	***6/17/2011***	***Chromium***	***2.6***	***0.0030***		***MG/L***	***0.1***	***0.1***
MW12IR	6/17/2011	Cobalt	0.0037	0.0030		MG/L		1
MW12IR	6/17/2011	Copper	0.046	0.0040		MG/L	1.3	0.65
MW12IR	6/17/2011	Iron	4.6	0.060		MG/L		5
MW12IR	6/17/2011	Lead	0.005	0.0050	U	MG/L	0.015	0.0075
MW12IR	6/17/2011	Magnesium	37.6	0.050		MG/L		
MW12IR	6/17/2011	Manganese	0.095	0.0010		MG/L		0.15
MW12IR	6/17/2011	Mercury	0.0002	0.00020	U	MG/L	0.002	0.002
MW12IR	**6/17/2011**	**Nickel**	**0.16**	**0.0040**		**MG/L**		**0.1**
MW12IR	6/17/2011	Potassium	5.9	0.20		MG/L		
MW12IR	6/17/2011	Selenium	0.01	0.010	U	MG/L	0.05	0.05
MW12IR	6/17/2011	Silver	0.004	0.0040	U	MG/L		0.05
MW12IR	6/17/2011	Sodium	41.8	1.0		MG/L		
MW12IR	6/17/2011	Thallium	0.002	0.0020	U	MG/L	0.002	0.002
MW12IR	6/17/2011	Total Cyanide	0.02	0.020	U	MG/L	200	200
MW12IR	6/17/2011	Vanadium	0.014	0.0030		MG/L		
MW12IR	6/17/2011	Zinc	0.0084	0.0050		MG/L		5
MW12IR	6/17/2011	1,2,4-Trichlorobenzene	10	10	U	UG/L	70	70
MW12IR	6/17/2011	1,2-Dichlorobenzene	10	10	U	UG/L	600	600
MW12IR	6/17/2011	1,3-Dichlorobenzene	10	10	U	UG/L		
MW12IR	6/17/2011	1,4-Dichlorobenzene	10	10	U	UG/L	75	75
MW12IR	6/17/2011	2,2'-Oxybis(1-chloropropane)	10	10	U	UG/L		
MW12IR	6/17/2011	2,4,5-Trichlorophenol	50	50	U	UG/L		
MW12IR	6/17/2011	2,4,6-Trichlorophenol	10	10	U	UG/L		
MW12IR	6/17/2011	2,4-Dichlorophenol	10	10	U	UG/L		
MW12IR	6/17/2011	2,4-Dimethylphenol	10	10	U	UG/L		
MW12IR	6/17/2011	2,4-Dinitrophenol	50	50	U	UG/L		
MW12IR	6/17/2011	2,4-Dinitrotoluene	10	10	U	UG/L		
MW12IR	6/17/2011	2,6-Dinitrotoluene	10	10	U	UG/L		
MW12IR	6/17/2011	2-Chloronaphthalene	10	10	U	UG/L		
MW12IR	6/17/2011	2-Chlorophenol	10	10	U	UG/L		

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Well ID	Sample Date	Parameter	Result	Reporting Limit	Qualifier	Units	MCL	Class I ILGWQS
MW12IR	6/17/2011	2-Methylnaphthalene	10	10	U	UG/L		
MW12IR	6/17/2011	2-Nitroaniline	50	50	U	UG/L		
MW12IR	6/17/2011	2-Nitrophenol	10	10	U	UG/L		
MW12IR	6/17/2011	3,3'-Dichlorobenzidine	10	10	U	UG/L		
MW12IR	6/17/2011	3-Nitroaniline	50	50	U	UG/L		
MW12IR	6/17/2011	4-Bromophenyl phenyl ether	10	10	U	UG/L		
MW12IR	6/17/2011	4-Chloroaniline	10	10	U	UG/L		
MW12IR	6/17/2011	4-Chlorophenyl phenyl ether	10	10	U	UG/L		
MW12IR	6/17/2011	4-Nitroaniline	50	50	U	UG/L		
MW12IR	6/17/2011	4-Nitrophenol	50	50	U	UG/L		
MW12IR	6/17/2011	Acenaphthene	10	10	U	UG/L		
MW12IR	6/17/2011	Acenaphthylene	10	10	U	UG/L		
MW12IR	6/17/2011	Anthracene	10	10	U	UG/L		
MW12IR	6/17/2011	Benzo(a)anthracene	10	10	U	UG/L		
MW12IR	6/17/2011	Benzo(a)pyrene	10	10	U	UG/L	0.2	0.2
MW12IR	6/17/2011	Benzo(b)fluoranthene	10	10	U	UG/L		
MW12IR	6/17/2011	Benzo(ghi)perylene	10	10	U	UG/L		
MW12IR	6/17/2011	Benzo(k)fluoranthene	10	10	U	UG/L		
MW12IR	6/17/2011	Bis(2-chloroethoxy)methane	10	10	U	UG/L		
MW12IR	6/17/2011	Bis(2-chloroethyl)ether	10	10	U	UG/L		
MW12IR	6/17/2011	Bis(2-ethylhexyl) phthalate	10	10	U	UG/L	6	6
MW12IR	6/17/2011	Butyl benzyl phthalate	10	10	U	UG/L		
MW12IR	6/17/2011	Carbazole	10	10	U	UG/L		
MW12IR	6/17/2011	Chloro-m-cresol, p-	10	10	U	UG/L		
MW12IR	6/17/2011	Chrysene	10	10	U	UG/L		
MW12IR	6/17/2011	Cresol, o-	10	10	U	UG/L		
MW12IR	6/17/2011	Cresol, p-	10	10	U	UG/L		
MW12IR	6/17/2011	Dibenzo(a,h)anthracene	10	10	U	UG/L		
MW12IR	6/17/2011	Dibenzofuran	10	10	U	UG/L		
MW12IR	6/17/2011	Diethyl phthalate	10	10	U	UG/L		
MW12IR	6/17/2011	Dimethyl phthalate	10	10	U	UG/L		
MW12IR	6/17/2011	Di-n-butyl phthalate	10	10	U	UG/L		
MW12IR	6/17/2011	Di-n-octyl phthalate	10	10	U	UG/L		
MW12IR	6/17/2011	Fluoranthene	10	10	U	UG/L		
MW12IR	6/17/2011	Fluorene	10	10	U	UG/L		
MW12IR	6/17/2011	Hexachlorobenzene	10	10	U	UG/L	1	
MW12IR	6/17/2011	Hexachlorobutadiene	40	40	U	UG/L		
MW12IR	6/17/2011	Hexachlorocyclopentadiene	24	24	U	UG/L	50	50
MW12IR	6/17/2011	Hexachloroethane	10	10	U	UG/L		

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Well ID	Sample Date	Parameter	Result	Reporting Limit	Qualifier	Units	MCL	Class I ILGWQS
MW12IR	6/17/2011	Indeno(1,2,3-cd)pyrene	10	10	U	UG/L		
MW12IR	6/17/2011	Isophorone	10	10	U	UG/L		
MW12IR	6/17/2011	Naphthalene	10	10	U	UG/L		
MW12IR	6/17/2011	Nitrobenzene	10	10	U	UG/L		
MW12IR	6/17/2011	N-Nitrosodi-n-propylamine	10	10	U	UG/L		
MW12IR	6/17/2011	N-Nitrosodiphenylamine	10	10	U	UG/L		
MW12IR	6/17/2011	o-Cresol, 4,6-dinitro-	50	50	U	UG/L		
MW12IR	6/17/2011	Pentachlorophenol	50	50	U	UG/L	1	1
MW12IR	6/17/2011	Phenanthrene	10	10	U	UG/L		
MW12IR	6/17/2011	Phenol	10	10	U	UG/L		100
MW12IR	6/17/2011	Pyrene	10	10	U	UG/L		
MW12IR	6/17/2011	1,1,1-Trichloroethane	1	1.0	U	UG/L	200	200
MW12IR	6/17/2011	1,1,2,2-Tetrachloroethane	1	1.0	U	UG/L		
MW12IR	6/17/2011	1,1,2-Trichloroethane	1	1.0	U	UG/L	5	5
MW12IR	6/17/2011	1,1-Dichloroethane	1	1.0	U	UG/L		
MW12IR	6/17/2011	1,1-Dichloroethene	1	1.0	U	UG/L	7	7
MW12IR	6/17/2011	1,2-Dichloroethane	1	1.0	U	UG/L	5	5
MW12IR	6/17/2011	1,2-Dichloropropane	1	1.0	U	UG/L	5	5
MW12IR	6/17/2011	2-Hexanone	10	10	U	UG/L		
MW12IR	6/17/2011	Acetone	10	10	U	UG/L		
MW12IR	6/17/2011	Benzene	1	1.0	U	UG/L	5	5
MW12IR	6/17/2011	Bromodichloromethane	1	1.0	U	UG/L		
MW12IR	6/17/2011	Bromoform	1	1.0	U	UG/L		
MW12IR	6/17/2011	Bromomethane	1	1.0	U	UG/L		
MW12IR	6/17/2011	Carbon disulfide	5	5.0	U	UG/L		
MW12IR	6/17/2011	Carbon tetrachloride	1	1.0	U	UG/L	5	5
MW12IR	6/17/2011	Chlorobenzene	1	1.0	U	UG/L	100	100
MW12IR	6/17/2011	Chloroethane	1	1.0	U	UG/L		
MW12IR	6/17/2011	Chloroform	1	1.0	U	UG/L		
MW12IR	6/17/2011	Chloromethane	1	1.0	U	UG/L		
MW12IR	6/17/2011	cis-1,2-Dichloroethene	1	1.0	U	UG/L	70	70
MW12IR	6/17/2011	cis-1,3-Dichloropropene	1	1.0	U	UG/L		
MW12IR	6/17/2011	Dibromochloromethane	1	1.0	U	UG/L		
MW12IR	6/17/2011	Ethylbenzene	1	1.0	U	UG/L	700	700
MW12IR	6/17/2011	Ketone, ethyl methyl	10	10	U	UG/L		
MW12IR	6/17/2011	methyl isobutyl ketone	10	10	U	UG/L		
MW12IR	6/17/2011	Methylene Chloride	2	2.0	U	UG/L	5	5
MW12IR	6/17/2011	Styrene	1	1.0	U	UG/L	100	100
MW12IR	6/17/2011	Tetrachloroethene	1	1.0	U	UG/L	5	5

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MW12IR	6/17/2011	Toluene	1	1.0	U	UG/L	1000	1000
MW12IR	6/17/2011	trans-1,2-Dichloroethene	1	1.0	U	UG/L	100	100
MW12IR	6/17/2011	trans-1,3-Dichloropropene	1	1.0	U	UG/L		
MW12IR	6/17/2011	Trichloroethene	1	1.0	U	UG/L	5	5
MW12IR	6/17/2011	Vinyl chloride	1	1.0	U	UG/L	2	2
MW12IR	6/17/2011	Xylenes, Total	3	3.0	U	UG/L	10000	10000
MW13IR	6/17/2011	Alkalinity, Total	441	10.0		MG/L		
MW13IR	6/17/2011	Chloride	101	1.0		MG/L		200
MW13IR	6/17/2011	Nitrate	0.5	0.5	U	MG/L AS N	10	10
MW13IR	6/17/2011	Nitrite	0.5	0.5	U	MG/L AS N	1	
MW13IR	6/17/2011	Sulfate	12	1.0		MG/L		400
MW13IR	6/17/2011	Sulfide	1000	1000	U	UG/L		
MW13IR	6/17/2011	Total Dissolved Solids	632	10.0		MG/L		1200
MW13IR	6/17/2011	Total Organic Carbon	3.6	1.0		MG/L		
MW13IR	6/17/2011	Total Suspended Solids	4	4.0	U	MG/L		
MW13IR	6/17/2011	Aluminum	0.06	0.060	U	MG/L		
MW13IR	6/17/2011	Antimony	0.007	0.0070	U	MG/L	6	6
MW13IR	6/17/2011	Arsenic	0.01	0.010	U	MG/L	0.01	0.05
MW13IR	6/17/2011	Barium	0.24	0.0050		MG/L	2	2
MW13IR	6/17/2011	Beryllium	0.001	0.0010	U	MG/L	0.004	0.004
MW13IR	6/17/2011	Cadmium	0.001	0.0010	U	MG/L	0.005	0.005
MW13IR	6/17/2011	Calcium	96.9	0.10		MG/L		
MW13IR	6/17/2011	Chromium	0.003	0.0030	U	MG/L	0.1	0.1
MW13IR	6/17/2011	Cobalt	0.003	0.0030	U	MG/L		1
MW13IR	6/17/2011	Copper	0.004	0.0040	U	MG/L	1.3	0.65
MW13IR	6/17/2011	Iron	1.6	0.060		MG/L		5
MW13IR	6/17/2011	Lead	0.005	0.0050	U	MG/L	0.015	0.0075
MW13IR	6/17/2011	Magnesium	64.7	0.050		MG/L		
MW13IR	6/17/2011	Manganese	0.053	0.0010		MG/L		0.15
MW13IR	6/17/2011	Mercury	0.0002	0.00020	U	MG/L	0.002	0.002
MW13IR	6/17/2011	Nickel	0.004	0.0040	U	MG/L		0.1
MW13IR	6/17/2011	Potassium	4.6	0.20		MG/L		
MW13IR	6/17/2011	Selenium	0.01	0.010	U	MG/L	0.05	0.05
MW13IR	6/17/2011	Silver	0.004	0.0040	U	MG/L		0.05
MW13IR	6/17/2011	Sodium	45.2	1.0		MG/L		
MW13IR	6/17/2011	Thallium	0.002	0.0020	U	MG/L	0.002	0.002
MW13IR	6/17/2011	Total Cyanide	0.02	0.020	U	MG/L	200	200
MW13IR	6/17/2011	Vanadium	0.003	0.0030	U	MG/L		
MW13IR	6/17/2011	Zinc	0.005	0.0050	U	MG/L		5

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Well ID	Sample Date	Parameter	Result	Reporting Limit	Qualifier	Units	MCL	Class I ILGWQS
MW13IR	6/17/2011	1,2,4-Trichlorobenzene	10	10	U	UG/L	70	70
MW13IR	6/17/2011	1,2-Dichlorobenzene	10	10	U	UG/L	600	600
MW13IR	6/17/2011	1,3-Dichlorobenzene	10	10	U	UG/L		
MW13IR	6/17/2011	1,4-Dichlorobenzene	10	10	U	UG/L	75	75
MW13IR	6/17/2011	2,2'-Oxybis(1-chloropropane)	10	10	U	UG/L		
MW13IR	6/17/2011	2,4,5-Trichlorophenol	50	50	U	UG/L		
MW13IR	6/17/2011	2,4,6-Trichlorophenol	10	10	U	UG/L		
MW13IR	6/17/2011	2,4-Dichlorophenol	10	10	U	UG/L		
MW13IR	6/17/2011	2,4-Dimethylphenol	10	10	U	UG/L		
MW13IR	6/17/2011	2,4-Dinitrophenol	50	50	U	UG/L		
MW13IR	6/17/2011	2,4-Dinitrotoluene	10	10	U	UG/L		
MW13IR	6/17/2011	2,6-Dinitrotoluene	10	10	U	UG/L		
MW13IR	6/17/2011	2-Chloronaphthalene	10	10	U	UG/L		
MW13IR	6/17/2011	2-Chlorophenol	10	10	U	UG/L		
MW13IR	6/17/2011	2-Methylnaphthalene	10	10	U	UG/L		
MW13IR	6/17/2011	2-Nitroaniline	50	50	U	UG/L		
MW13IR	6/17/2011	2-Nitrophenol	10	10	U	UG/L		
MW13IR	6/17/2011	3,3'-Dichlorobenzidine	10	10	U	UG/L		
MW13IR	6/17/2011	3-Nitroaniline	50	50	U	UG/L		
MW13IR	6/17/2011	4-Bromophenyl phenyl ether	10	10	U	UG/L		
MW13IR	6/17/2011	4-Chloroaniline	10	10	U	UG/L		
MW13IR	6/17/2011	4-Chlorophenyl phenyl ether	10	10	U	UG/L		
MW13IR	6/17/2011	4-Nitroaniline	50	50	U	UG/L		
MW13IR	6/17/2011	4-Nitrophenol	50	50	U	UG/L		
MW13IR	6/17/2011	Acenaphthene	10	10	U	UG/L		
MW13IR	6/17/2011	Acenaphthylene	10	10	U	UG/L		
MW13IR	6/17/2011	Anthracene	10	10	U	UG/L		
MW13IR	6/17/2011	Benzo(a)anthracene	10	10	U	UG/L		
MW13IR	6/17/2011	Benzo(a)pyrene	10	10	U	UG/L	0.2	0.2
MW13IR	6/17/2011	Benzo(b)fluoranthene	10	10	U	UG/L		
MW13IR	6/17/2011	Benzo(ghi)perylene	10	10	U	UG/L		
MW13IR	6/17/2011	Benzo(k)fluoranthene	10	10	U	UG/L		
MW13IR	6/17/2011	Bis(2-chloroethoxy)methane	10	10	U	UG/L		
MW13IR	6/17/2011	Bis(2-chloroethyl)ether	10	10	U	UG/L		
MW13IR	6/17/2011	Bis(2-ethylhexyl) phthalate	10	10	U	UG/L	6	6
MW13IR	6/17/2011	Butyl benzyl phthalate	10	10	U	UG/L		
MW13IR	6/17/2011	Carbazole	10	10	U	UG/L		
MW13IR	6/17/2011	Chloro-m-cresol, p-	10	10	U	UG/L		
MW13IR	6/17/2011	Chrysene	10	10	U	UG/L		

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MW13IR	6/17/2011	Cresol, o-	10	10	U	UG/L		
MW13IR	6/17/2011	Cresol, p-	10	10	U	UG/L		
MW13IR	6/17/2011	Dibenzo(a,h)anthracene	10	10	U	UG/L		
MW13IR	6/17/2011	Dibenzofuran	10	10	U	UG/L		
MW13IR	6/17/2011	Diethyl phthalate	10	10	U	UG/L		
MW13IR	6/17/2011	Dimethyl phthalate	10	10	U	UG/L		
MW13IR	6/17/2011	Di-n-butyl phthalate	10	10	U	UG/L		
MW13IR	6/17/2011	Di-n-octyl phthalate	10	10	U	UG/L		
MW13IR	6/17/2011	Fluoranthene	10	10	U	UG/L		
MW13IR	6/17/2011	Fluorene	10	10	U	UG/L		
MW13IR	6/17/2011	Hexachlorobenzene	10	10	U	UG/L	1	
MW13IR	6/17/2011	Hexachlorobutadiene	40	40	U	UG/L		
MW13IR	6/17/2011	Hexachlorocyclopentadiene	24	24	U	UG/L	50	50
MW13IR	6/17/2011	Hexachloroethane	10	10	U	UG/L		
MW13IR	6/17/2011	Indeno(1,2,3-cd)pyrene	10	10	U	UG/L		
MW13IR	6/17/2011	Isophorone	10	10	U	UG/L		
MW13IR	6/17/2011	Naphthalene	10	10	U	UG/L		
MW13IR	6/17/2011	Nitrobenzene	10	10	U	UG/L		
MW13IR	6/17/2011	N-Nitrosodi-n-propylamine	10	10	U	UG/L		
MW13IR	6/17/2011	N-Nitrosodiphenylamine	10	10	U	UG/L		
MW13IR	6/17/2011	o-Cresol, 4,6-dinitro-	50	50	U	UG/L		
MW13IR	6/17/2011	Pentachlorophenol	50	50	U	UG/L	1	1
MW13IR	6/17/2011	Phenanthrene	10	10	U	UG/L		
MW13IR	6/17/2011	Phenol	10	10	U	UG/L		100
MW13IR	6/17/2011	Pyrene	10	10	U	UG/L		
MW13IR	6/17/2011	1,1,1-Trichloroethane	1	1.0	U	UG/L	200	200
MW13IR	6/17/2011	1,1,2,2-Tetrachloroethane	1	1.0	U	UG/L		
MW13IR	6/17/2011	1,1,2-Trichloroethane	1	1.0	U	UG/L	5	5
MW13IR	6/17/2011	1,1-Dichloroethane	1	1.0	U	UG/L		
MW13IR	6/17/2011	1,1-Dichloroethene	1	1.0	U	UG/L	7	7
MW13IR	6/17/2011	1,2-Dichloroethane	1	1.0	U	UG/L	5	5
MW13IR	6/17/2011	1,2-Dichloropropane	1	1.0	U	UG/L	5	5
MW13IR	6/17/2011	2-Hexanone	10	10	U	UG/L		
MW13IR	6/17/2011	Acetone	10	10	U	UG/L		
MW13IR	6/17/2011	Benzene	1	1.0	U	UG/L	5	5
MW13IR	6/17/2011	Bromodichloromethane	1	1.0	U	UG/L		
MW13IR	6/17/2011	Bromoform	1	1.0	U	UG/L		
MW13IR	6/17/2011	Bromomethane	1	1.0	U	UG/L		
MW13IR	6/17/2011	Carbon disulfide	5	5.0	U	UG/L		

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Well ID	Sample Date	Parameter	Result	Reporting Limit	Qualifier	Units	MCL	Class I ILGWQS
MW13IR	6/17/2011	Carbon tetrachloride	1	1.0	U	UG/L	5	5
MW13IR	6/17/2011	Chlorobenzene	1	1.0	U	UG/L	100	100
MW13IR	6/17/2011	Chloroethane	1	1.0	U	UG/L		
MW13IR	6/17/2011	Chloroform	1	1.0	U	UG/L		
MW13IR	6/17/2011	Chloromethane	1	1.0	U	UG/L		
MW13IR	6/17/2011	cis-1,2-Dichloroethene	1	1.0	U	UG/L	70	70
MW13IR	6/17/2011	cis-1,3-Dichloropropene	1	1.0	U	UG/L		
MW13IR	6/17/2011	Dibromochloromethane	1	1.0	U	UG/L		
MW13IR	6/17/2011	Ethylbenzene	1	1.0	U	UG/L	700	700
MW13IR	6/17/2011	Ketone, ethyl methyl	10	10	U	UG/L		
MW13IR	6/17/2011	methyl isobutyl ketone	10	10	U	UG/L		
MW13IR	6/17/2011	Methylene Chloride	2	2.0	U	UG/L	5	5
MW13IR	6/17/2011	Styrene	1	1.0	U	UG/L	100	100
MW13IR	6/17/2011	Tetrachloroethene	1	1.0	U	UG/L	5	5
MW13IR	6/17/2011	Toluene	1	1.0	U	UG/L	1000	1000
MW13IR	6/17/2011	trans-1,2-Dichloroethene	1	1.0	U	UG/L	100	100
MW13IR	6/17/2011	trans-1,3-Dichloropropene	1	1.0	U	UG/L		
MW13IR	6/17/2011	Trichloroethene	1	1.0	U	UG/L	5	5
MW13IR	6/17/2011	Vinyl chloride	1	1.0	U	UG/L	2	2
MW13IR	6/17/2011	Xylenes, Total	3	3.0	U	UG/L	10000	10000
MW39I	6/14/2011	Alkalinity, Total	360	10.0		MG/L		
MW39I	6/14/2011	Chloride	81.6	1.0		MG/L		200
MW39I	6/23/2011	Nitrate	0.5	0.5	U	MG/L AS N	10	10
MW39I	6/23/2011	Nitrite	0.5	0.5	U	MG/L AS N	1	
MW39I	6/14/2011	Sulfate	43.8	1.0		MG/L		400
MW39I	6/14/2011	Sulfide	1000	1000	U	UG/L		
MW39I	6/14/2011	Total Dissolved Solids	536	10.0		MG/L		1200
MW39I	6/14/2011	Total Organic Carbon	1	1.0	U	MG/L		
MW39I	6/14/2011	Total Suspended Solids	4	4.0	U	MG/L		
MW39I	6/14/2011	Aluminum	0.26	0.060		MG/L		
MW39I	6/14/2011	Antimony	0.007	0.0070	U	MG/L	6	6
MW39I	6/14/2011	Arsenic	0.01	0.010	U	MG/L	0.01	0.05
MW39I	6/14/2011	Barium	0.11	0.0050		MG/L	2	2
MW39I	6/14/2011	Beryllium	0.001	0.0010	U	MG/L	0.004	0.004
MW39I	6/14/2011	Cadmium	0.001	0.0010	U	MG/L	0.005	0.005
MW39I	6/14/2011	Calcium	76.5	0.10		MG/L		
MW39I	6/14/2011	Chromium	0.0035	0.0030		MG/L	0.1	0.1
MW39I	6/14/2011	Cobalt	0.003	0.0030	U	MG/L		1
MW39I	6/14/2011	Copper	0.004	0.0040	U	MG/L	1.3	0.65

Appendix E
Tri-County Landfill
Intermediate Monitoring Well Network Analytical Data

Well ID	Sample Date	Parameter	Result	Reporting Limit	Qualifier	Units	MCL	Class I ILGWQS
MW39I	6/14/2011	Iron	0.48	0.060		MG/L		5
MW39I	6/14/2011	Lead	0.005	0.0050	U	MG/L	0.015	0.0075
MW39I	6/14/2011	Magnesium	54.1	0.050		MG/L		
MW39I	**6/14/2011**	**Manganese**	**0.36**	**0.0010**		**MG/L**		**0.15**
MW39I	6/14/2011	Mercury	0.0002	0.00020	U	MG/L	0.002	0.002
MW39I	6/14/2011	Nickel	0.0058	0.0040		MG/L		0.1
MW39I	6/14/2011	Potassium	2.5	0.20		MG/L		
MW39I	6/14/2011	Selenium	0.01	0.010	U	MG/L	0.05	0.05
MW39I	6/14/2011	Silver	0.004	0.0040	U	MG/L		0.05
MW39I	6/14/2011	Sodium	46.6	1.0		MG/L		
MW39I	6/14/2011	Thallium	0.002	0.0020	U	MG/L	0.002	0.002
MW39I	6/14/2011	Total Cyanide	0.02	0.020	U	MG/L	200	200
MW39I	6/14/2011	Vanadium	0.003	0.0030	U	MG/L		
MW39I	6/14/2011	Zinc	0.005	0.0050	U	MG/L		5
MW39I	6/14/2011	1,1,1-Trichloroethane	1	1.0	U	UG/L	200	200
MW39I	6/14/2011	1,1,2,2-Tetrachloroethane	1	1.0	U	UG/L		
MW39I	6/14/2011	1,1,2-Trichloroethane	1	1.0	U	UG/L	5	5
MW39I	6/14/2011	1,1-Dichloroethane	1	1.0	U	UG/L		
MW39I	6/14/2011	1,1-Dichloroethene	1	1.0	U	UG/L	7	7
MW39I	6/14/2011	1,2-Dichloroethane	1	1.0	U	UG/L	5	5
MW39I	6/14/2011	1,2-Dichloropropane	1	1.0	U	UG/L	5	5
MW39I	6/14/2011	2-Hexanone	10	10	U	UG/L		
MW39I	6/14/2011	Acetone	10	10	U	UG/L		
MW39I	6/14/2011	Benzene	1	1.0	U	UG/L	5	5
MW39I	6/14/2011	Bromodichloromethane	1	1.0	U	UG/L		
MW39I	6/14/2011	Bromoform	1	1.0	U	UG/L		
MW39I	6/14/2011	Bromomethane	1	1.0	U	UG/L		
MW39I	6/14/2011	Carbon disulfide	5	5.0	U	UG/L		
MW39I	6/14/2011	Carbon tetrachloride	1	1.0	U	UG/L	5	5
MW39I	6/14/2011	Chlorobenzene	1	1.0	U	UG/L	100	100
MW39I	6/14/2011	Chloroethane	1	1.0	U	UG/L		
MW39I	6/14/2011	Chloroform	1	1.0	U	UG/L		
MW39I	6/14/2011	Chloromethane	1	1.0	U	UG/L		
MW39I	6/14/2011	cis-1,2-Dichloroethene	1	1.0	U	UG/L	70	70
MW39I	6/14/2011	cis-1,3-Dichloropropene	1	1.0	U	UG/L		
MW39I	6/14/2011	Dibromochloromethane	1	1.0	U	UG/L		
MW39I	6/14/2011	Ethylbenzene	1	1.0	U	UG/L	700	700
MW39I	6/14/2011	Ketone, ethyl methyl	10	10	U	UG/L		
MW39I	6/14/2011	methyl isobutyl ketone	10	10	U	UG/L		

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Tri-County Landfill
Intermediate Monitoring Well Network Analytical Data

Well ID	Sample Date	Parameter	Result	Reporting Limit	Qualifier	Units	MCL	Class I ILGWQS
MW39I	6/14/2011	Methylene Chloride	2	2.0	U	UG/L	5	5
MW39I	6/14/2011	Styrene	1	1.0	U	UG/L	100	100
MW39I	6/14/2011	Tetrachloroethene	1	1.0	U	UG/L	5	5
MW39I	6/14/2011	Toluene	1	1.0	U	UG/L	1000	1000
MW39I	6/14/2011	trans-1,2-Dichloroethene	1	1.0	U	UG/L	100	100
MW39I	6/14/2011	trans-1,3-Dichloropropene	1	1.0	U	UG/L		
MW39I	6/14/2011	Trichloroethene	1	1.0	U	UG/L	5	5
MW39I	6/14/2011	Vinyl chloride	1	1.0	U	UG/L	2	2
MW39I	6/14/2011	Xylenes, Total	3	3.0	U	UG/L	10000	10000

Notes:
Chloride and metals concentrations are total.
MCL = US EPA Maximum Contaminant Level.
ILGWQS = Illinois Class I Groundwater Quality Standard.
Laboratory analyses performed by TestAmerica Buffalo.
Nitrate and nitrite alaysis performed by Environmental Monitoring Technologies, Inc.

Bold indicates exceedance of ILGWQS.

Italics indicates exceedance of MCL.

Bold and italics indicates exceedance of both the MCL and ILGWQS.

Qualifiers:
B = Analyte was detected in the associated Method Blank.
U = Indicates compound/element was analyzed for, but not detected.

Appendix E
Tri-County Landfill
Intermediate Monitoring Well Network Field Data

Well ID	Sample Date	Parameter	Result	Qualifier	Units
G142	6/14/2011	Depth to water from land surface	18.7		FT
G142	6/14/2011	Depth to Water from Top of Casing	20.56		FT
G142	6/13/2011	Depth to Water from Top of Casing (initial)	20.70		FT
G142	6/14/2011	Dissolved Oxygen, Field	2.67		MG/L
G142	6/14/2011	Elevation Bottom of Well	722.75		FT/MSL
G142	6/14/2011	Ferrous Iron	0.08		MG/L
G142	6/14/2011	Field EH/ORP	-113.8		MILLIVOLTS
G142	6/14/2011	Measuring Point Elevation	758.49		FT/MSL
G142	6/14/2011	pH, Field	7.63		SU
G142	6/14/2011	Specific Conductance, Field	2586		UMHOS/CM
G142	6/14/2011	Temperature, Field (°F)	56.4		DEGREES F
G142	6/14/2011	Turbidity	9.86		NTU
G142	6/14/2011	Water Elevation	737.93		FT/MSL
G142	6/13/2011	Water Elevation (initial)	737.79		FT/MSL
MW1I1	6/16/2011	Depth to water from land surface	11.62		FT
MW1I1	6/16/2011	Depth to Water from Top of Casing	13.42		FT
MW1I1	6/13/2011	Depth to Water from Top of Casing (initial)	13.20		FT
MW1I1	6/16/2011	Dissolved Oxygen, Field	4.0		MG/L
MW1I1	6/16/2011	Elevation Bottom of Well	706.78		FT/MSL
MW1I1	6/16/2011	Ferrous Iron	0.02		MG/L
MW1I1	6/15/2011	Field EH/ORP	-129.4		MILLIVOLTS
MW1I1	6/16/2011	Measuring Point Elevation	740.97		FT/MSL
MW1I1	6/16/2011	pH, Field	7.45		SU
MW1I1	6/16/2011	Specific Conductance, Field	1093		UMHOS/CM
MW1I1	6/16/2011	Temperature, Field (°F)	54.9		DEGREES F
MW1I1	6/16/2011	Turbidity	1.09		NTU
MW1I1	6/16/2011	Water Elevation	727.55		FT/MSL
MW1I1	6/13/2011	Water Elevation (initial)	727.77		FT/MSL
MW1I2	6/16/2011	Depth to water from land surface	10.13		FT
MW1I2	6/16/2011	Depth to Water from Top of Casing	11.69		FT
MW1I2	6/13/2011	Depth to Water from Top of Casing (initial)	11.58		FT
MW1I2	6/16/2011	Dissolved Oxygen, Field	4.12		MG/L
MW1I2	6/16/2011	Elevation Bottom of Well	689.23		FT/MSL
MW1I2	6/16/2011	Ferrous Iron	0.1		MG/L
MW1I2	6/16/2011	Field EH/ORP	-109.5		MILLIVOLTS
MW1I2	6/16/2011	Measuring Point Elevation	741.3		FT/MSL
MW1I2	6/16/2011	pH, Field	7.31		SU
MW1I2	6/16/2011	Specific Conductance, Field	1264		UMHOS/CM
MW1I2	6/16/2011	Temperature, Field (°F)	55.8		DEGREES F

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Well ID	Sample Date	Parameter	Result	Qualifier	Units
MW1I2	6/16/2011	Turbidity	1.06		NTU
MW1I2	6/16/2011	Water Elevation	729.61		FT/MSL
MW1I2	6/13/2011	Water Elevation (initial)	729.72		FT/MSL
MW2IR	6/14/2011	Depth to water from land surface	21.95		FT
MW2IR	6/14/2011	Depth to Water from Top of Casing	24.36		FT
MW2IR	6/13/2011	Depth to Water from Top of Casing (initial)	24.37		FT
MW2IR	6/14/2011	Dissolved Oxygen, Field	3.13		MG/L
MW2IR	6/14/2011	Elevation Bottom of Well	709		FT/MSL
MW2IR	6/14/2011	Ferrous Iron	0.18		MG/L
MW2IR	6/14/2011	Field EH/ORP	-96.5		MILLIVOLTS
MW2IR	6/14/2011	Measuring Point Elevation	759.15		FT/MSL
MW2IR	6/14/2011	pH, Field	7.52		SU
MW2IR	6/14/2011	Specific Conductance, Field	364		UMHOS/CM
MW2IR	6/14/2011	Temperature, Field (°F)	57.5		DEGREES F
MW2IR	6/14/2011	Turbidity	3.42		NTU
MW2IR	6/14/2011	Water Elevation	734.79		FT/MSL
MW2IR	6/13/2011	Water Elevation (initial)	734.78		FT/MSL
MW5IR	6/15/2011	Depth to water from land surface	12.1		FT
MW5IR	6/15/2011	Depth to Water from Top of Casing	13.20		FT
MW5IR	6/13/2011	Depth to Water from Top of Casing (initial)	13.49		FT
MW5IR	6/15/2011	Dissolved Oxygen, Field	3.64		MG/L
MW5IR	6/15/2011	Elevation Bottom of Well	708.78		FT/MSL
MW5IR	6/15/2011	Ferrous Iron	0.18		MG/L
MW5IR	6/15/2011	Field EH/ORP	-121.9		MILLIVOLTS
MW5IR	6/15/2011	Measuring Point Elevation	746.87		FT/MSL
MW5IR	6/15/2011	pH, Field	7.24		SU
MW5IR	6/15/2011	Specific Conductance, Field	533		UMHOS/CM
MW5IR	6/15/2011	Temperature, Field (°F)	55.1		DEGREES F
MW5IR	6/15/2011	Turbidity	5.37		NTU
MW5IR	6/15/2011	Water Elevation	733.67		FT/MSL
MW5IR	6/13/2011	Water Elevation (initial)	733.38		FT/MSL
MW6I	6/15/2011	Depth to water from land surface	9.67		FT
MW6I	6/15/2011	Depth to Water from Top of Casing	12.07		FT
MW6I	6/13/2011	Depth to Water from Top of Casing (initial)	12.08		FT
MW6I	6/15/2011	Dissolved Oxygen, Field	3.57		MG/L
MW6I	6/15/2011	Elevation Bottom of Well	705.34		FT/MSL
MW6I	6/15/2011	Ferrous Iron	0		MG/L
MW6I	6/15/2011	Field EH/ORP	-130.4		MILLIVOLTS
MW6I	6/15/2011	Measuring Point Elevation	743.94		FT/MSL

Appendix E
Tri-County Landfill
Intermediate Monitoring Well Network Field Data

Well ID	Sample Date	Parameter	Result	Qualifier	Units
MW6I	6/15/2011	pH, Field	7.08		SU
MW6I	6/15/2011	Specific Conductance, Field	961		UMHOS/CM
MW6I	6/15/2011	Temperature, Field (°F)	52.7		DEGREES F
MW6I	6/15/2011	Turbidity	9.71		NTU
MW6I	6/15/2011	Water Elevation	731.87		FT/MSL
MW6I	6/13/2011	Water Elevation (initial)	731.86		FT/MSL
MW10I	6/15/2011	Depth to water from land surface	19.35		FT
MW10I	6/15/2011	Depth to Water from Top of Casing	21.15		FT
MW10I	6/13/2011	Depth to Water from Top of Casing (initial)	21.38		FT
MW10I	6/15/2011	Dissolved Oxygen, Field	4.21		MG/L
MW10I	6/15/2011	Elevation Bottom of Well	700.27		FT/MSL
MW10I	6/15/2011	Ferrous Iron	0.12		MG/L
MW10I	6/15/2011	Field EH/ORP	-21.2		MILLIVOLTS
MW10I	6/15/2011	Measuring Point Elevation	756.12		FT/MSL
MW10I	6/15/2011	pH, Field	7.02		SU
MW10I	6/15/2011	Specific Conductance, Field	534		UMHOS/CM
MW10I	6/15/2011	Temperature, Field (°F)	51.5		DEGREES F
MW10I	6/15/2011	Turbidity	197		NTU
MW10I	6/15/2011	Water Elevation	734.97		FT/MSL
MW10I	6/13/2011	Water Elevation (initial)	734.74		FT/MSL
MW12IR	6/17/2011	Depth to water from land surface	20.08		FT
MW12IR	6/17/2011	Depth to Water from Top of Casing	21.99		FT
MW12IR	6/13/2011	Depth to Water from Top of Casing (initial)	21.88		FT
MW12IR	6/17/2011	Dissolved Oxygen, Field	1.97		MG/L
MW12IR	6/17/2011	Elevation Bottom of Well	705.07		FT/MSL
MW12IR	6/17/2011	Ferrous Iron	0.13		MG/L
MW12IR	6/17/2011	Field EH/ORP	-110.9		MILLIVOLTS
MW12IR	6/17/2011	Measuring Point Elevation	757.28		FT/MSL
MW12IR	6/17/2011	pH, Field	7.01		SU
MW12IR	6/17/2011	Specific Conductance, Field	797		UMHOS/CM
MW12IR	6/17/2011	Temperature, Field (°F)	53.8		DEGREES F
MW12IR	6/17/2011	Turbidity	48.6		NTU
MW12IR	6/17/2011	Water Elevation	735.29		FT/MSL
MW12IR	6/13/2011	Water Elevation (initial)	735.40		FT/MSL
MW13IR	6/17/2011	Depth to water from land surface	22.79		FT
MW13IR	6/17/2011	Depth to Water from Top of Casing	23.21		FT
MW13IR	6/13/2011	Depth to Water from Top of Casing (initial)	23.33		FT
MW13IR	6/17/2011	Dissolved Oxygen, Field	2.51		MG/L
MW13IR	6/17/2011	Elevation Bottom of Well	720.55		FT/MSL

Appendix E
Tri-County Landfill
Intermediate Monitoring Well Network Field Data

Well ID	Sample Date	Parameter	Result	Qualifier	Units
MW13IR	6/17/2011	Ferrous Iron	0.08		MG/L
MW13IR	6/17/2011	Field EH/ORP	-123.2		MILLIVOLTS
MW13IR	6/17/2011	Measuring Point Elevation	757.6		FT/MSL
MW13IR	6/17/2011	pH, Field	7.36		SU
MW13IR	6/17/2011	Specific Conductance, Field	1001		UMHOS/CM
MW13IR	6/17/2011	Temperature, Field (°F)	56.4		DEGREES F
MW13IR	6/17/2011	Turbidity	3.07		NTU
MW13IR	6/17/2011	Water Elevation	734.39		FT/MSL
MW13IR	6/13/2011	Water Elevation (initial)	734.27		FT/MSL
MW39I	6/14/2011	Depth to water from land surface	10.06		FT
MW39I	6/14/2011	Depth to Water from Top of Casing	11.87		FT
MW39I	6/13/2011	Depth to Water from Top of Casing (initial)	11.65		FT
MW39I	6/14/2011	Dissolved Oxygen, Field	3.75		MG/L
MW39I	6/14/2011	Elevation Bottom of Well	704.93		FT/MSL
MW39I	6/14/2011	Ferrous Iron	0.22		MG/L
MW39I	6/14/2011	Field EH/ORP	-116.6		MILLIVOLTS
MW39I	6/14/2011	Measuring Point Elevation	738.91		FT/MSL
MW39I	6/14/2011	pH, Field	7.36		SU
MW39I	6/14/2011	Specific Conductance, Field	878		UMHOS/CM
MW39I	6/14/2011	Temperature, Field (°F)	52.3		DEGREES F
MW39I	6/14/2011	Turbidity	9.13		NTU
MW39I	6/14/2011	Water Elevation	727.04		FT/MSL
MW39I	6/13/2011	Water Elevation (initial)	727.26		FT/MSL

Appendix E
Elgin Landfill
Intermediate Monitoring Well Network Analytical Data

Well ID	Sample Date	Parameter	Result	Qualifier	Reporting Limit	MCL	Class I ILGWQS
G141	6/16/11	2-Butanone (UG/L)		U	5		
G141	6/16/11	Alkalinity, Total (MG/L)	324		10		
G141	6/16/11	Aluminum (MG/L)	0.5		0.06		
G141	6/16/11	Antimony (MG/L)		U	0.001	6	6
G141	6/16/11	Arsenic (MG/L)	0.004		0.003	0.01	0.05
G141	6/16/11	Barium (MG/L)	0.15		0.005	2	2
G141	6/16/11	Beryllium (MG/L)		U ^	0.001	0.004	0.004
G141	6/16/11	Cadmium (MG/L)	0.00043	J	0.001	0.005	0.005
G141	6/16/11	Calcium (MG/L)	86.8		0.5		
G141	6/16/11	Chloride (MG/L)	105		2		200
G141	6/16/11	Chromium (MG/L)	0.0023	J	0.005	0.1	0.1
G141	6/16/11	Cobalt (MG/L)		U	0.05		1
G141	6/16/11	Copper (MG/L)	0.0016	J	0.01	1.3	0.65
G141	6/16/11	Iron (MG/L)	3.2		0.14		5
G141	6/16/11	Lead (MG/L)		U	0.005	0.015	0.0075
G141	6/16/11	Magnesium (MG/L)	56.3		0.2		
G141	6/16/11	Manganese (MG/L)	0.032		0.003		0.15
G141	6/16/11	Mercury (MG/L)		U	0.0004	0.002	0.002
G141	6/16/11	Nickel (MG/L)	0.0013	J	0.01		0.1
G141	6/16/11	Nitrogen, Nitrate (MG/L)		U	0.013	10	10
G141	6/16/11	Nitrogen, Nitrite (MG/L)		U	0.014	1	
G141	6/16/11	Potassium (MG/L)	2.3		0.5		
G141	6/16/11	Selenium (MG/L)		U	0.015		0.1
G141	6/16/11	Silver (MG/L)		U	0.003		0.05
G141	6/16/11	Sodium (MG/L)	23.8		5		
G141	6/16/11	Sulfate (MG/L)		U	1		400
G141	6/16/11	Sulfide (UG/L)		U	1000		
G141	6/16/11	Thallium (MG/L)		U	0.001	0.002	0.002
G141	6/16/11	Total Cyanide (MG/L)		U	0.02	200	200
G141	6/16/11	Total Dissolved Solids (MG/L)	626		10		1200
G141	6/16/11	Total Suspended Solids (MG/L)	27.2		4		
G141	6/16/11	Vanadium (MG/L)	0.0018	J	0.05		
G141	6/16/11	Zinc (MG/L)	0.0046	J	0.02		5
G141	6/16/11	1,1,1-Trichloroethane (UG/L)		U	1	200	200
G141	6/16/11	1,1,2,2-Tetrachloroethane (UG/L)		U	1		
G141	6/16/11	1,1,2-Trichloroethane (UG/L)		U	1	5	5
G141	6/16/11	1,1-Dichloroethane (UG/L)		U	1		
G141	6/16/11	1,1-Dichloroethene (UG/L)		U	1	7	7
G141	6/16/11	1,2-Dichloroethane (UG/L)		U	1	5	5

Appendix E
Elgin Landfill
Intermediate Monitoring Well Network Analytical Data

Well ID	Sample Date	Parameter	Result	Qualifier	Reporting Limit	MCL	Class I ILGWQS
G141	6/16/11	1,2-Dichloroethene, Total (UG/L)		U	2		
G141	6/16/11	1,2-Dichloropropane (UG/L)		U	1	5	5
G141	6/16/11	2-Hexanone (UG/L)		U	10		
G141	6/16/11	4-Methyl-2-pentanone (UG/L)		U	5		
G141	6/16/11	Acetone (UG/L)		U	5		
G141	6/16/11	Benzene (UG/L)		U	1	5	5
G141	6/16/11	Bromodichloromethane (UG/L)		U	1		
G141	6/16/11	Bromoform (UG/L)		U	1		
G141	6/16/11	Bromomethane (UG/L)		U	1		
G141	6/16/11	Carbon disulfide (UG/L)		U	5		
G141	6/16/11	Carbon tetrachloride (UG/L)		U	1	5	5
G141	6/16/11	Chlorobenzene (UG/L)		U	1	100	100
G141	6/16/11	Chloroethane (UG/L)		U	1		
G141	6/16/11	Chloroform (UG/L)		U	1		
G141	6/16/11	Chloromethane (UG/L)		U	1		
G141	6/16/11	cis-1,3-Dichloropropene (UG/L)		U	1		
G141	6/16/11	Dibromochloromethane (UG/L)		U	1		
G141	6/16/11	Ethylbenzene (UG/L)		U	1	700	700
G141	6/16/11	Methylene Chloride (UG/L)		U	2	5	5
G141	6/16/11	Styrene (UG/L)		U	1	100	100
G141	6/16/11	Tetrachloroethene (UG/L)		U	1	5	5
G141	6/16/11	Toluene (UG/L)		U	1	1000	1000
G141	6/16/11	Total Organic Carbon (MG/L)		U	1		
G141	6/16/11	trans-1,3-Dichloropropene (UG/L)		U	1		
G141	6/16/11	Trichloroethene (UG/L)		U	1	5	5
G141	6/16/11	Vinyl chloride (UG/L)		U	1	2	2
G141	6/16/11	Xylenes, Total (UG/L)		U	3	10000	10000
MW9I	6/14/11	2-Butanone (UG/L)		U	5		
MW9I	6/14/11	Alkalinity, Total (MG/L)	383		10		
MW9I	6/14/11	Chloride (MG/L)	165		2		200
MW9I	6/14/11	Nitrogen, Nitrate (MG/L)		U	0.013	10	10
MW9I	6/14/11	Nitrogen, Nitrite (MG/L)		U	0.014	1	
MW9I	6/14/11	Sulfate (MG/L)	227		5		400
MW9I	6/14/11	Sulfide (UG/L)		U	1000		
MW9I	6/14/11	Total Dissolved Solids (MG/L)	984		10		1200
MW9I	6/14/11	Total Suspended Solids (MG/L)	32		4		
MW9I	6/14/11	1,1,1-Trichloroethane (UG/L)		U	1	200	200
MW9I	6/14/11	1,1,2,2-Tetrachloroethane (UG/L)		U	1		
MW9I	6/14/11	1,1,2-Trichloroethane (UG/L)		U	1	5	5

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Well ID	Sample Date	Parameter	Result	Qualifier	Reporting Limit	MCL	Class I ILGWQS
MW9I	6/14/11	1,1-Dichloroethane (UG/L)		U	1		
MW9I	6/14/11	1,1-Dichloroethene (UG/L)		U	1	7	7
MW9I	6/14/11	1,2-Dichloroethane (UG/L)		U	1	5	5
MW9I	6/14/11	1,2-Dichloroethene, Total (UG/L)		U	2		
MW9I	6/14/11	1,2-Dichloropropane (UG/L)		U	1	5	5
MW9I	6/14/11	2-Hexanone (UG/L)		U	10		
MW9I	6/14/11	4-Methyl-2-pentanone (UG/L)		U	5		
MW9I	6/14/11	Acetone (UG/L)		U	5		
MW9I	6/14/11	Benzene (UG/L)		U	1	5	5
MW9I	6/14/11	Bromodichloromethane (UG/L)		U	1		
MW9I	6/14/11	Bromoform (UG/L)		U	1		
MW9I	6/14/11	Bromomethane (UG/L)		U	1		
MW9I	6/14/11	Carbon disulfide (UG/L)		U	5		
MW9I	6/14/11	Carbon tetrachloride (UG/L)		U	1	5	5
MW9I	6/14/11	Chlorobenzene (UG/L)		U	1	100	100
MW9I	6/14/11	Chloroethane (UG/L)		U	1		
MW9I	6/14/11	Chloroform (UG/L)		U	1		
MW9I	6/14/11	Chloromethane (UG/L)		U	1		
MW9I	6/14/11	cis-1,3-Dichloropropene (UG/L)		U	1		
MW9I	6/14/11	Dibromochloromethane (UG/L)		U	1		
MW9I	6/14/11	Ethylbenzene (UG/L)		U	1	700	700
MW9I	6/14/11	Methylene Chloride (UG/L)		U	2	5	5
MW9I	6/14/11	Styrene (UG/L)		U	1	100	100
MW9I	6/14/11	Tetrachloroethene (UG/L)		U	1	5	5
MW9I	6/14/11	Toluene (UG/L)		U	1	1000	1000
MW9I	6/14/11	Total Organic Carbon (MG/L)		U	1		
MW9I	6/14/11	trans-1,3-Dichloropropene (UG/L)		U	1		
MW9I	6/14/11	Trichloroethene (UG/L)		U	1	5	5
MW9I	6/14/11	Vinyl chloride (UG/L)		U	1	2	2
MW9I	6/14/11	Xylenes, Total (UG/L)		U	3	10000	10000
MW22I	6/15/11	1,2,4-Trichlorobenzene (UG/L)		U H *	9.5	70	70
MW22I	6/15/11	1,2,4-Trichlorobenzene (UG/L)		U *	9.4	70	70
MW22I	6/15/11	1,2-Dichlorobenzene (UG/L)		U	9.4	600	600
MW22I	6/15/11	1,2-Dichlorobenzene (UG/L)		U H *	9.5	600	600
MW22I	6/15/11	1,3-Dichlorobenzene (UG/L)		U H	9.5		
MW22I	6/15/11	1,3-Dichlorobenzene (UG/L)		U	9.4		
MW22I	6/15/11	1,4-Dichlorobenzene (UG/L)		U	9.4	75	75
MW22I	6/15/11	1,4-Dichlorobenzene (UG/L)		U H	9.5	75	75
MW22I	6/15/11	2,2'-oxybis(1-chloropropane) (UG/L)		U H	4.8		

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Well ID	Sample Date	Parameter	Result	Qualifier	Reporting Limit	MCL	Class I ILGWQS
MW22I	6/15/11	2,2'-oxybis(1-chloropropane) (UG/L)		U	4.7		
MW22I	6/15/11	2,4,5-Trichlorophenol (UG/L)		U	4.7		
MW22I	6/15/11	2,4,5-Trichlorophenol (UG/L)		U H	4.8		
MW22I	6/15/11	2,4,6-Trichlorophenol (UG/L)		U	4.7		
MW22I	6/15/11	2,4,6-Trichlorophenol (UG/L)		U H	4.8		
MW22I	6/15/11	2,4-Dichlorophenol (UG/L)		U	4.7		
MW22I	6/15/11	2,4-Dichlorophenol (UG/L)		U H	4.8		
MW22I	6/15/11	2,4-Dimethylphenol (UG/L)		U	4.7		
MW22I	6/15/11	2,4-Dimethylphenol (UG/L)		U H	4.8		
MW22I	6/15/11	2,4-Dinitrophenol (UG/L)		U *	9.4		
MW22I	6/15/11	2,4-Dinitrophenol (UG/L)		U H	9.5		
MW22I	6/15/11	2,4-Dinitrotoluene (UG/L)		U	4.7		
MW22I	6/15/11	2,4-Dinitrotoluene (UG/L)		U H	4.8		
MW22I	6/15/11	2,6-Dinitrotoluene (UG/L)		U	4.7		
MW22I	6/15/11	2,6-Dinitrotoluene (UG/L)		U H	4.8		
MW22I	6/15/11	2-Butanone (UG/L)		U	5		
MW22I	6/15/11	2-Chloronaphthalene (UG/L)		U H	4.8		
MW22I	6/15/11	2-Chloronaphthalene (UG/L)		U	4.7		
MW22I	6/15/11	2-Chlorophenol (UG/L)		U	4.7		
MW22I	6/15/11	2-Chlorophenol (UG/L)		U H	4.8		
MW22I	6/15/11	2-Methylnaphthalene (UG/L)		U	4.7		
MW22I	6/15/11	2-Methylnaphthalene (UG/L)		U H *	4.8		
MW22I	6/15/11	2-Methylphenol (UG/L)		U H	4.8		
MW22I	6/15/11	2-Methylphenol (UG/L)		U	4.7		
MW22I	6/15/11	2-Nitroaniline (UG/L)		U H	9.5		
MW22I	6/15/11	2-Nitroaniline (UG/L)		U	9.4		
MW22I	6/15/11	2-Nitrophenol (UG/L)		U	4.7		
MW22I	6/15/11	2-Nitrophenol (UG/L)		U H	4.8		
MW22I	6/15/11	3,3'-Dichlorobenzidine (UG/L)		U	4.7		
MW22I	6/15/11	3,3'-Dichlorobenzidine (UG/L)		U H	4.8		
MW22I	6/15/11	3-Nitroaniline (UG/L)		U H	9.5		
MW22I	6/15/11	3-Nitroaniline (UG/L)		U	9.4		
MW22I	6/15/11	4-Bromophenyl phenyl ether (UG/L)		U H	4.8		
MW22I	6/15/11	4-Bromophenyl phenyl ether (UG/L)		U	4.7		
MW22I	6/15/11	4-Chloroaniline (UG/L)		U H	4.8		
MW22I	6/15/11	4-Chloroaniline (UG/L)		U	4.7		
MW22I	6/15/11	4-Chlorophenyl phenyl ether (UG/L)		U	4.7		
MW22I	6/15/11	4-Chlorophenyl phenyl ether (UG/L)		U H	4.8		
MW22I	6/15/11	4-Methylphenol (UG/L)		U H	9.5		

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Well ID	Sample Date	Parameter	Result	Qualifier	Reporting Limit	MCL	Class I ILGWQS
MW22I	6/15/11	4-Methylphenol (UG/L)		U	9.4		
MW22I	6/15/11	4-Nitroaniline (UG/L)		U	9.4		
MW22I	6/15/11	4-Nitroaniline (UG/L)		U H	9.5		
MW22I	6/15/11	4-Nitrophenol (UG/L)		U	9.4		
MW22I	6/15/11	4-Nitrophenol (UG/L)		U H	9.5		
MW22I	6/15/11	Acenaphthene (UG/L)		U	4.7		
MW22I	6/15/11	Acenaphthene (UG/L)		U H	4.8		
MW22I	6/15/11	Acenaphthylene (UG/L)		U	4.7		
MW22I	6/15/11	Acenaphthylene (UG/L)		U H	4.8		
MW22I	6/15/11	Alkalinity, Total (MG/L)	486		10		
MW22I	6/15/11	Aluminum (MG/L)	0.54		0.06		
MW22I	6/15/11	Anthracene (UG/L)		U	4.7		
MW22I	6/15/11	Anthracene (UG/L)		U H	4.8		
MW22I	6/15/11	Antimony (MG/L)	0.00016	J	0.001	6	6
MW22I	6/15/11	Arsenic (MG/L)	0.044		0.003	0.01	0.05
MW22I	6/15/11	Barium (MG/L)	0.25		0.005	2	2
MW22I	6/15/11	Benzo(a)anthracene (UG/L)		U H	4.8		
MW22I	6/15/11	Benzo(a)anthracene (UG/L)		U	4.7		
MW22I	6/15/11	Benzo(a)pyrene (UG/L)		U	4.7	0.2	0.2
MW22I	6/15/11	Benzo(a)pyrene (UG/L)		U H	4.8	0.2	0.2
MW22I	6/15/11	Benzo(b)fluoranthene (UG/L)		U	4.7		
MW22I	6/15/11	Benzo(b)fluoranthene (UG/L)	0.44	J B H	4.8		
MW22I	6/15/11	Benzo(ghi)perylene (UG/L)	0.75	J B H	4.8		
MW22I	6/15/11	Benzo(ghi)perylene (UG/L)		U	4.7		
MW22I	6/15/11	Benzo(k)fluoranthene (UG/L)		U	4.7		
MW22I	6/15/11	Benzo(k)fluoranthene (UG/L)		U H	4.8		
MW22I	6/15/11	Beryllium (MG/L)	3.4E-05	J	0.001	0.004	0.004
MW22I	6/15/11	Bis(2-chloroethoxy)methane (UG/L)		U	4.7		
MW22I	6/15/11	Bis(2-chloroethoxy)methane (UG/L)		U H	4.8		
MW22I	6/15/11	Bis(2-chloroethyl)ether (UG/L)		U	4.7		
MW22I	6/15/11	Bis(2-chloroethyl)ether (UG/L)		U H	4.8		
MW22I	6/15/11	Bis(2-ethylhexyl) phthalate (UG/L)		U H	4.8	6	6
MW22I	6/15/11	Bis(2-ethylhexyl) phthalate (UG/L)		U	4.7	6	6
MW22I	6/15/11	Butyl benzyl phthalate (UG/L)		U H	4.8		
MW22I	6/15/11	Butyl benzyl phthalate (UG/L)		U	4.7		
MW22I	6/15/11	Cadmium (MG/L)	0.00066	J	0.001	0.005	0.005
MW22I	6/15/11	Calcium (MG/L)	107		0.5		
MW22I	6/15/11	Carbazole (UG/L)		U H	4.8		
MW22I	6/15/11	Carbazole (UG/L)		U	4.7		

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Well ID	Sample Date	Parameter	Result	Qualifier	Reporting Limit	MCL	Class I ILGWQS
MW22I	6/15/11	Chloride (MG/L)	61.5		1		200
MW22I	6/15/11	Chromium (MG/L)	0.0059		0.005	0.1	0.1
MW22I	6/15/11	Chrysene (UG/L)		U	4.7		
MW22I	6/15/11	Chrysene (UG/L)		U H	4.8		
MW22I	6/15/11	Cobalt (MG/L)	0.0029	J	0.05		1
MW22I	6/15/11	Copper (MG/L)	0.0031	J	0.01	1.3	0.65
MW22I	6/15/11	Dibenz(a,h)anthracene (UG/L)	0.67	J B H	4.8		
MW22I	6/15/11	Dibenz(a,h)anthracene (UG/L)		U	4.7		
MW22I	6/15/11	Dibenzofuran (UG/L)		U	4.7		
MW22I	6/15/11	Dibenzofuran (UG/L)		U H	4.8		
MW22I	6/15/11	Diethyl phthalate (UG/L)		U H	4.8		
MW22I	6/15/11	Diethyl phthalate (UG/L)		U	4.7		
MW22I	6/15/11	Dimethyl phthalate (UG/L)		U	4.7		
MW22I	6/15/11	Dimethyl phthalate (UG/L)		U H	4.8		
MW22I	6/15/11	Di-n-butyl phthalate (UG/L)		U H	4.8		
MW22I	6/15/11	Di-n-butyl phthalate (UG/L)		U	4.7		
MW22I	6/15/11	Di-n-octyl phthalate (UG/L)		U	4.7		
MW22I	6/15/11	Di-n-octyl phthalate (UG/L)		U H	4.8		
MW22I	6/15/11	Fluoranthene (UG/L)		U H	4.8		
MW22I	6/15/11	Fluoranthene (UG/L)		U	4.7		
MW22I	6/15/11	Fluorene (UG/L)		U	4.7		
MW22I	6/15/11	Fluorene (UG/L)		U H	4.8		
MW22I	6/15/11	Hexachlorobenzene (UG/L)		U H	4.8	1	
MW22I	6/15/11	Hexachlorobenzene (UG/L)		U	4.7	1	
MW22I	6/15/11	Hexachlorobutadiene (UG/L)		U *	4.7		
MW22I	6/15/11	Hexachlorobutadiene (UG/L)		U H *	4.8		
MW22I	6/15/11	Hexachlorocyclopentadiene (UG/L)		U	4.7	50	50
MW22I	6/15/11	Hexachlorocyclopentadiene (UG/L)		U H	4.8	50	50
MW22I	6/15/11	Hexachloroethane (UG/L)		U	4.7		
MW22I	6/15/11	Hexachloroethane (UG/L)		U H	4.8		
MW22I	6/15/11	Indeno(1,2,3-cd)pyrene (UG/L)		U	4.7		
MW22I	6/15/11	Indeno(1,2,3-cd)pyrene (UG/L)	0.7	J B H	4.8		
MW22I	**6/15/11**	**Iron (MG/L)**	**17.6**		**0.14**		**5**
MW22I	6/15/11	Isophorone (UG/L)		U H	4.8		
MW22I	6/15/11	Isophorone (UG/L)		U	4.7		
MW22I	6/15/11	Lead (MG/L)	0.0035	J	0.005	0.015	0.0075
MW22I	6/15/11	Magnesium (MG/L)	52.7		0.2		
MW22I	**6/15/11**	**Manganese (MG/L)**	**0.18**	**B**	**0.003**		**0.15**
MW22I	6/15/11	Mercury (MG/L)		U	0.0004	0.002	0.002

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Well ID	Sample Date	Parameter	Result	Qualifier	Reporting Limit	MCL	Class I ILGWQS
MW22I	6/15/11	Naphthalene (UG/L)		U	4.7		
MW22I	6/15/11	Naphthalene (UG/L)		U H	4.8		
MW22I	6/15/11	Nickel (MG/L)	0.0068	J	0.01		0.1
MW22I	6/15/11	Nitrobenzene (UG/L)		U H	4.8		
MW22I	6/15/11	Nitrobenzene (UG/L)		U	4.7		
MW22I	6/15/11	Nitrogen, Nitrate (MG/L)	0.046	J	0.013	10	10
MW22I	6/15/11	Nitrogen, Nitrite (MG/L)		U	0.014	1	
MW22I	6/15/11	N-Nitrosodi-n-propylamine (UG/L)		U H	4.8		
MW22I	6/15/11	N-Nitrosodi-n-propylamine (UG/L)		U	4.7		
MW22I	6/15/11	N-Nitrosodiphenylamine (UG/L)		U	4.7		
MW22I	6/15/11	N-Nitrosodiphenylamine (UG/L)		U H	4.8		
MW22I	6/15/11	Pentachlorophenol (UG/L)		U H	9.5	1	1
MW22I	6/15/11	Pentachlorophenol (UG/L)		U	9.4	1	1
MW22I	6/15/11	Phenanthrene (UG/L)		U H	4.8		
MW22I	6/15/11	Phenanthrene (UG/L)		U	4.7		
MW22I	6/15/11	Phenol (UG/L)		U H	4.8		100
MW22I	6/15/11	Phenol (UG/L)		U	4.7		100
MW22I	6/15/11	Potassium (MG/L)	20.8		0.5		
MW22I	6/15/11	Pyrene (UG/L)		U	4.7		
MW22I	6/15/11	Pyrene (UG/L)		U H	4.8		
MW22I	6/15/11	Selenium (MG/L)		U	0.015		0.1
MW22I	6/15/11	Silver (MG/L)		U	0.003		0.05
MW22I	6/15/11	Sodium (MG/L)	61		5		
MW22I	6/15/11	Sulfate (MG/L)	62.5		1		400
MW22I	6/15/11	Sulfide (UG/L)		U	1000		
MW22I	6/15/11	Thallium (MG/L)	5.8E-05	J	0.001	0.002	0.002
MW22I	6/15/11	Total Cyanide (MG/L)		U	0.02	200	200
MW22I	6/15/11	Total Dissolved Solids (MG/L)	648		10		1200
MW22I	6/15/11	Total Suspended Solids (MG/L)	11.6		4		
MW22I	6/15/11	Vanadium (MG/L)	0.0027	J	0.05		
MW22I	6/15/11	Zinc (MG/L)	0.011	J B	0.02		5
MW22I	6/15/11	1,1,1-Trichloroethane (UG/L)		U	1	200	200
MW22I	6/15/11	1,1,2,2-Tetrachloroethane (UG/L)		U	1		
MW22I	6/15/11	1,1,2-Trichloroethane (UG/L)		U	1	5	5
MW22I	6/15/11	1,1-Dichloroethane (UG/L)	1.2		1		
MW22I	6/15/11	1,1-Dichloroethene (UG/L)		U	1	7	7
MW22I	6/15/11	1,2-Dichloroethane (UG/L)		U	1	5	5
MW22I	6/15/11	1,2-Dichloroethene, Total (UG/L)	1.5	J	2		
MW22I	6/15/11	1,2-Dichloropropane (UG/L)		U	1	5	5

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MW22I	6/15/11	2-Hexanone (UG/L)		U	10		
MW22I	6/15/11	4,6-Dinitro-2-methylphenol (UG/L)		U H	9.5		
MW22I	6/15/11	4,6-Dinitro-2-methylphenol (UG/L)		U	9.4		
MW22I	6/15/11	4-Chloro-3-methylphenol (UG/L)		U H	4.8		
MW22I	6/15/11	4-Chloro-3-methylphenol (UG/L)		U	4.7		
MW22I	6/15/11	4-Methyl-2-pentanone (UG/L)		U	5		
MW22I	6/15/11	Acetone (UG/L)		U	5		
MW22I	6/15/11	Benzene (UG/L)	0.76	J	1	5	5
MW22I	6/15/11	Bromodichloromethane (UG/L)		U	1		
MW22I	6/15/11	Bromoform (UG/L)		U	1		
MW22I	6/15/11	Bromomethane (UG/L)		U	1		
MW22I	6/15/11	Carbon disulfide (UG/L)		U	5		
MW22I	6/15/11	Carbon tetrachloride (UG/L)		U	1	5	5
MW22I	6/15/11	Chlorobenzene (UG/L)		U	1	100	100
MW22I	6/15/11	Chloroethane (UG/L)		U	1		
MW22I	6/15/11	Chloroform (UG/L)		U	1		
MW22I	6/15/11	Chloromethane (UG/L)		U	1		
MW22I	6/15/11	cis-1,3-Dichloropropene (UG/L)		U	1		
MW22I	6/15/11	Dibromochloromethane (UG/L)		U	1		
MW22I	6/15/11	Ethylbenzene (UG/L)		U	1	700	700
MW22I	6/15/11	Methylene Chloride (UG/L)		U	2	5	5
MW22I	6/15/11	Styrene (UG/L)		U	1	100	100
MW22I	6/15/11	Tetrachloroethene (UG/L)		U	1	5	5
MW22I	6/15/11	Toluene (UG/L)		U	1	1000	1000
MW22I	6/15/11	Total Organic Carbon (MG/L)	6.9		1		
MW22I	6/15/11	trans-1,3-Dichloropropene (UG/L)		U	1		
MW22I	6/15/11	Trichloroethene (UG/L)		U	1	5	5
MW22I	6/15/11	Vinyl chloride (UG/L)		U	1	2	2
MW22I	6/15/11	Xylenes, Total (UG/L)		U	3	10000	10000
MW23I	6/15/11	1,2,4-Trichlorobenzene (UG/L)		U H *	9.6	70	70
MW23I	6/15/11	1,2,4-Trichlorobenzene (UG/L)		U *	9.6	70	70
MW23I	6/15/11	1,2-Dichlorobenzene (UG/L)		U	9.6	600	600
MW23I	6/15/11	1,2-Dichlorobenzene (UG/L)		U H *	9.6	600	600
MW23I	6/15/11	1,3-Dichlorobenzene (UG/L)		U	9.6		
MW23I	6/15/11	1,3-Dichlorobenzene (UG/L)		U H	9.6		
MW23I	6/15/11	1,4-Dichlorobenzene (UG/L)		U H	9.6	75	75
MW23I	6/15/11	1,4-Dichlorobenzene (UG/L)		U	9.6	75	75
MW23I	6/15/11	2,2'-oxybis(1-chloropropane) (UG/L)		U H	4.8		
MW23I	6/15/11	2,2'-oxybis(1-chloropropane) (UG/L)		U	4.8		

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Well ID	Sample Date	Parameter	Result	Qualifier	Reporting Limit	MCL	Class I ILGWQS
MW23I	6/15/11	2,4,5-Trichlorophenol (UG/L)		U H	4.8		
MW23I	6/15/11	2,4,5-Trichlorophenol (UG/L)		U	4.8		
MW23I	6/15/11	2,4,6-Trichlorophenol (UG/L)		U	4.8		
MW23I	6/15/11	2,4,6-Trichlorophenol (UG/L)		U H	4.8		
MW23I	6/15/11	2,4-Dichlorophenol (UG/L)		U H	4.8		
MW23I	6/15/11	2,4-Dichlorophenol (UG/L)		U	4.8		
MW23I	6/15/11	2,4-Dimethylphenol (UG/L)		U H	4.8		
MW23I	6/15/11	2,4-Dimethylphenol (UG/L)		U	4.8		
MW23I	6/15/11	2,4-Dinitrophenol (UG/L)		U H	9.6		
MW23I	6/15/11	2,4-Dinitrophenol (UG/L)		U *	9.6		
MW23I	6/15/11	2,4-Dinitrotoluene (UG/L)		U	4.8		
MW23I	6/15/11	2,4-Dinitrotoluene (UG/L)		U H	4.8		
MW23I	6/15/11	2,6-Dinitrotoluene (UG/L)		U	4.8		
MW23I	6/15/11	2,6-Dinitrotoluene (UG/L)		U H	4.8		
MW23I	6/15/11	2-Butanone (UG/L)		U	5		
MW23I	6/15/11	2-Chloronaphthalene (UG/L)		U	4.8		
MW23I	6/15/11	2-Chloronaphthalene (UG/L)		U H	4.8		
MW23I	6/15/11	2-Chlorophenol (UG/L)		U	4.8		
MW23I	6/15/11	2-Chlorophenol (UG/L)		U H	4.8		
MW23I	6/15/11	2-Methylnaphthalene (UG/L)		U H *	4.8		
MW23I	6/15/11	2-Methylnaphthalene (UG/L)		U	4.8		
MW23I	6/15/11	2-Methylphenol (UG/L)		U H	4.8		
MW23I	6/15/11	2-Methylphenol (UG/L)		U	4.8		
MW23I	6/15/11	2-Nitroaniline (UG/L)		U H	9.6		
MW23I	6/15/11	2-Nitroaniline (UG/L)		U	9.6		
MW23I	6/15/11	2-Nitrophenol (UG/L)		U	4.8		
MW23I	6/15/11	2-Nitrophenol (UG/L)		U H	4.8		
MW23I	6/15/11	3,3'-Dichlorobenzidine (UG/L)		U	4.8		
MW23I	6/15/11	3,3'-Dichlorobenzidine (UG/L)		U H	4.8		
MW23I	6/15/11	3-Nitroaniline (UG/L)		U	9.6		
MW23I	6/15/11	3-Nitroaniline (UG/L)		U H	9.6		
MW23I	6/15/11	4-Bromophenyl phenyl ether (UG/L)		U H	4.8		
MW23I	6/15/11	4-Bromophenyl phenyl ether (UG/L)		U	4.8		
MW23I	6/15/11	4-Chloroaniline (UG/L)		U H	4.8		
MW23I	6/15/11	4-Chloroaniline (UG/L)		U	4.8		
MW23I	6/15/11	4-Chlorophenyl phenyl ether (UG/L)		U	4.8		
MW23I	6/15/11	4-Chlorophenyl phenyl ether (UG/L)		U H	4.8		
MW23I	6/15/11	4-Methylphenol (UG/L)		U H	9.6		
MW23I	6/15/11	4-Methylphenol (UG/L)		U	9.6		

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Well ID	Sample Date	Parameter	Result	Qualifier	Reporting Limit	MCL	Class I ILGWQS
MW23I	6/15/11	4-Nitroaniline (UG/L)		U	9.6		
MW23I	6/15/11	4-Nitroaniline (UG/L)		U H	9.6		
MW23I	6/15/11	4-Nitrophenol (UG/L)		U H	9.6		
MW23I	6/15/11	4-Nitrophenol (UG/L)		U	9.6		
MW23I	6/15/11	Acenaphthene (UG/L)		U	4.8		
MW23I	6/15/11	Acenaphthene (UG/L)		U H	4.8		
MW23I	6/15/11	Acenaphthylene (UG/L)		U	4.8		
MW23I	6/15/11	Acenaphthylene (UG/L)		U H	4.8		
MW23I	6/15/11	Alkalinity, Total (MG/L)	668		10		
MW23I	6/15/11	Aluminum (MG/L)	0.76		0.06		
MW23I	6/15/11	Anthracene (UG/L)		U H	4.8		
MW23I	6/15/11	Anthracene (UG/L)		U	4.8		
MW23I	6/15/11	Antimony (MG/L)		U	0.001	6	6
MW23I	6/15/11	Arsenic (MG/L)	0.0022	J	0.003	0.01	0.05
MW23I	6/15/11	Barium (MG/L)	0.57		0.005	2	2
MW23I	6/15/11	Benzo(a)anthracene (UG/L)		U	4.8		
MW23I	6/15/11	Benzo(a)anthracene (UG/L)		U H	4.8		
MW23I	6/15/11	Benzo(a)pyrene (UG/L)		U	4.8	0.2	0.2
MW23I	6/15/11	Benzo(a)pyrene (UG/L)		U H	4.8	0.2	0.2
MW23I	6/15/11	Benzo(b)fluoranthene (UG/L)	0.41	J B H	4.8		
MW23I	6/15/11	Benzo(b)fluoranthene (UG/L)		U	4.8		
MW23I	6/15/11	Benzo(ghi)perylene (UG/L)	0.58	J B H	4.8		
MW23I	6/15/11	Benzo(ghi)perylene (UG/L)		U	4.8		
MW23I	6/15/11	Benzo(k)fluoranthene (UG/L)		U H	4.8		
MW23I	6/15/11	Benzo(k)fluoranthene (UG/L)		U	4.8		
MW23I	6/15/11	Beryllium (MG/L)		U	0.001	0.004	0.004
MW23I	6/15/11	Bis(2-chloroethoxy)methane (UG/L)		U	4.8		
MW23I	6/15/11	Bis(2-chloroethoxy)methane (UG/L)		U H	4.8		
MW23I	6/15/11	Bis(2-chloroethyl)ether (UG/L)		U	4.8		
MW23I	6/15/11	Bis(2-chloroethyl)ether (UG/L)		U H	4.8		
MW23I	6/15/11	Bis(2-ethylhexyl) phthalate (UG/L)		U	4.8	6	6
MW23I	6/15/11	Bis(2-ethylhexyl) phthalate (UG/L)		U H	4.8	6	6
MW23I	6/15/11	Butyl benzyl phthalate (UG/L)		U H	4.8		
MW23I	6/15/11	Butyl benzyl phthalate (UG/L)		U	4.8		
MW23I	6/15/11	Cadmium (MG/L)		U	0.001	0.005	0.005
MW23I	6/15/11	Calcium (MG/L)	93		0.5		
MW23I	6/15/11	Carbazole (UG/L)		U H	4.8		
MW23I	6/15/11	Carbazole (UG/L)		U	4.8		
MW23I	**6/15/11**	**Chloride (MG/L)**	**215**		**5**		**200**

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MW23I	6/15/11	Chromium (MG/L)	0.0036	J	0.005	0.1	0.1
MW23I	6/15/11	Chrysene (UG/L)		U	4.8		
MW23I	6/15/11	Chrysene (UG/L)		U H	4.8		
MW23I	6/15/11	Cobalt (MG/L)	0.0017	J	0.05		1
MW23I	6/15/11	Copper (MG/L)	0.0019	J	0.01	1.3	0.65
MW23I	6/15/11	Dibenz(a,h)anthracene (UG/L)	0.58	J B H	4.8		
MW23I	6/15/11	Dibenz(a,h)anthracene (UG/L)		U	4.8		
MW23I	6/15/11	Dibenzofuran (UG/L)		U	4.8		
MW23I	6/15/11	Dibenzofuran (UG/L)		U H	4.8		
MW23I	6/15/11	Diethyl phthalate (UG/L)		U	4.8		
MW23I	6/15/11	Diethyl phthalate (UG/L)		U H	4.8		
MW23I	6/15/11	Dimethyl phthalate (UG/L)		U	4.8		
MW23I	6/15/11	Dimethyl phthalate (UG/L)		U H	4.8		
MW23I	6/15/11	Di-n-butyl phthalate (UG/L)		U H	4.8		
MW23I	6/15/11	Di-n-butyl phthalate (UG/L)		U	4.8		
MW23I	6/15/11	Di-n-octyl phthalate (UG/L)		U	4.8		
MW23I	6/15/11	Di-n-octyl phthalate (UG/L)		U H	4.8		
MW23I	6/15/11	Fluoranthene (UG/L)		U H	4.8		
MW23I	6/15/11	Fluoranthene (UG/L)		U	4.8		
MW23I	6/15/11	Fluorene (UG/L)		U	4.8		
MW23I	6/15/11	Fluorene (UG/L)		U H	4.8		
MW23I	6/15/11	Hexachlorobenzene (UG/L)		U	4.8	1	
MW23I	6/15/11	Hexachlorobenzene (UG/L)		U H	4.8	1	
MW23I	6/15/11	Hexachlorobutadiene (UG/L)		U *	4.8		
MW23I	6/15/11	Hexachlorobutadiene (UG/L)		U H *	4.8		
MW23I	6/15/11	Hexachlorocyclopentadiene (UG/L)		U	4.8	50	50
MW23I	6/15/11	Hexachlorocyclopentadiene (UG/L)		U H	4.8	50	50
MW23I	6/15/11	Hexachloroethane (UG/L)		U H	4.8		
MW23I	6/15/11	Hexachloroethane (UG/L)		U	4.8		
MW23I	6/15/11	Indeno(1,2,3-cd)pyrene (UG/L)		U	4.8		
MW23I	6/15/11	Indeno(1,2,3-cd)pyrene (UG/L)	0.61	J B H	4.8		
MW23I	6/15/11	Iron (MG/L)	4.3		0.14		5
MW23I	6/15/11	Isophorone (UG/L)		U H	4.8		
MW23I	6/15/11	Isophorone (UG/L)		U	4.8		
MW23I	6/15/11	Lead (MG/L)		U	0.005	0.015	0.0075
MW23I	6/15/11	Magnesium (MG/L)	70.6		0.2		
MW23I	6/15/11	Manganese (MG/L)	0.086	B	0.003		0.15
MW23I	6/15/11	Mercury (MG/L)		U	0.0004	0.002	0.002
MW23I	6/15/11	Naphthalene (UG/L)		U H	4.8		

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Well ID	Sample Date	Parameter	Result	Qualifier	Reporting Limit	MCL	Class I ILGWQS
MW23I	6/15/11	Naphthalene (UG/L)		U	4.8		
MW23I	6/15/11	Nickel (MG/L)	0.0061	J	0.01		0.1
MW23I	6/15/11	Nitrobenzene (UG/L)		U	4.8		
MW23I	6/15/11	Nitrobenzene (UG/L)		U H	4.8		
MW23I	6/15/11	Nitrogen, Nitrate (MG/L)	0.014	J	0.013	10	10
MW23I	6/15/11	Nitrogen, Nitrite (MG/L)		U	0.014	1	
MW23I	6/15/11	N-Nitrosodi-n-propylamine (UG/L)		U	4.8		
MW23I	6/15/11	N-Nitrosodi-n-propylamine (UG/L)		U H	4.8		
MW23I	6/15/11	N-Nitrosodiphenylamine (UG/L)		U H	4.8		
MW23I	6/15/11	N-Nitrosodiphenylamine (UG/L)		U	4.8		
MW23I	6/15/11	Pentachlorophenol (UG/L)		U	9.6	1	1
MW23I	6/15/11	Pentachlorophenol (UG/L)		U H	9.6	1	1
MW23I	6/15/11	Phenanthrene (UG/L)		U	4.8		
MW23I	6/15/11	Phenanthrene (UG/L)		U H	4.8		
MW23I	6/15/11	Phenol (UG/L)		U H	4.8		100
MW23I	6/15/11	Phenol (UG/L)		U	4.8		100
MW23I	6/15/11	Potassium (MG/L)	28.4		0.5		
MW23I	6/15/11	Pyrene (UG/L)		U H	4.8		
MW23I	6/15/11	Pyrene (UG/L)		U	4.8		
MW23I	6/15/11	Selenium (MG/L)		U	0.015		0.1
MW23I	6/15/11	Silver (MG/L)		U	0.003		0.05
MW23I	6/15/11	Sodium (MG/L)	164		5		
MW23I	6/15/11	Sulfate (MG/L)	9.6		2		400
MW23I	6/15/11	Sulfide (UG/L)	1200		1000		
MW23I	6/15/11	Thallium (MG/L)	8.5E-06	J	0.001	0.002	0.002
MW23I	6/15/11	Total Cyanide (MG/L)		U	0.02	200	200
MW23I	6/15/11	Total Dissolved Solids (MG/L)	1020		10		1200
MW23I	6/15/11	Total Suspended Solids (MG/L)	28		4		
MW23I	6/15/11	Vanadium (MG/L)	0.0024	J	0.05		
MW23I	6/15/11	Zinc (MG/L)	0.0046	J B	0.02		5
MW23I	6/15/11	1,1,1-Trichloroethane (UG/L)		U	1	200	200
MW23I	6/15/11	1,1,2,2-Tetrachloroethane (UG/L)		U	1		
MW23I	6/15/11	1,1,2-Trichloroethane (UG/L)		U	1	5	5
MW23I	6/15/11	1,1-Dichloroethane (UG/L)		U	1		
MW23I	6/15/11	1,1-Dichloroethene (UG/L)		U	1	7	7
MW23I	6/15/11	1,2-Dichloroethane (UG/L)		U	1	5	5
MW23I	6/15/11	1,2-Dichloroethene, Total (UG/L)		U	2		
MW23I	6/15/11	1,2-Dichloropropane (UG/L)		U	1	5	5
MW23I	6/15/11	2-Hexanone (UG/L)		U	10		

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MW23I	6/15/11	4,6-Dinitro-2-methylphenol (UG/L)		U	9.6		
MW23I	6/15/11	4,6-Dinitro-2-methylphenol (UG/L)		U H	9.6		
MW23I	6/15/11	4-Chloro-3-methylphenol (UG/L)		U	4.8		
MW23I	6/15/11	4-Chloro-3-methylphenol (UG/L)		U H	4.8		
MW23I	6/15/11	4-Methyl-2-pentanone (UG/L)		U	5		
MW23I	6/15/11	Acetone (UG/L)		U	5		
MW23I	6/15/11	Benzene (UG/L)		U	1	5	5
MW23I	6/15/11	Bromodichloromethane (UG/L)		U	1		
MW23I	6/15/11	Bromoform (UG/L)		U	1		
MW23I	6/15/11	Bromomethane (UG/L)		U	1		
MW23I	6/15/11	Carbon disulfide (UG/L)		U	5		
MW23I	6/15/11	Carbon tetrachloride (UG/L)		U	1	5	5
MW23I	6/15/11	Chlorobenzene (UG/L)		U	1	100	100
MW23I	6/15/11	Chloroethane (UG/L)		U	1		
MW23I	6/15/11	Chloroform (UG/L)		U	1		
MW23I	6/15/11	Chloromethane (UG/L)		U	1		
MW23I	6/15/11	cis-1,3-Dichloropropene (UG/L)		U	1		
MW23I	6/15/11	Dibromochloromethane (UG/L)		U	1		
MW23I	6/15/11	Ethylbenzene (UG/L)		U	1	700	700
MW23I	6/15/11	Methylene Chloride (UG/L)		U	2	5	5
MW23I	6/15/11	Styrene (UG/L)		U	1	100	100
MW23I	6/15/11	Tetrachloroethene (UG/L)		U	1	5	5
MW23I	6/15/11	Toluene (UG/L)		U	1	1000	1000
MW23I	6/15/11	Total Organic Carbon (MG/L)	2.1		1		
MW23I	6/15/11	trans-1,3-Dichloropropene (UG/L)		U	1		
MW23I	6/15/11	Trichloroethene (UG/L)		U	1	5	5
MW23I	6/15/11	Vinyl chloride (UG/L)		U	1	2	2
MW23I	6/15/11	Xylenes, Total (UG/L)		U	3	10000	10000
MW36I	6/14/11	2-Butanone (UG/L)		U	5		
MW36I	6/14/11	Alkalinity, Total (MG/L)	620		10		
MW36I	6/14/11	Aluminum (MG/L)		U	0.06		
MW36I	6/14/11	Antimony (MG/L)	0.00018	J	0.001	6	6
MW36I	6/14/11	Arsenic (MG/L)	0.0047		0.003	0.01	0.05
MW36I	6/14/11	Barium (MG/L)	0.4		0.005	2	2
MW36I	6/14/11	Beryllium (MG/L)		U	0.001	0.004	0.004
MW36I	6/14/11	Cadmium (MG/L)	0.00036	J	0.001	0.005	0.005
MW36I	6/14/11	Calcium (MG/L)	147		0.5		
MW36I	**6/14/11**	**Chloride (MG/L)**	**315**		**5**		**200**
MW36I	6/14/11	Chromium (MG/L)	0.027		0.005	0.1	0.1

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MW36I	6/14/11	Cobalt (MG/L)	0.0022	J	0.05		1
MW36I	6/14/11	Copper (MG/L)	0.0018	J	0.01	1.3	0.65
MW36I	**6/14/11**	**Iron (MG/L)**	**10.5**		**0.14**		**5**
MW36I	6/14/11	Lead (MG/L)		U	0.005	0.015	0.0075
MW36I	6/14/11	Magnesium (MG/L)	105		0.2		
MW36I	**6/14/11**	**Manganese (MG/L)**	**0.24**		**0.003**		**0.15**
MW36I	6/14/11	Mercury (MG/L)		U	0.0004	0.002	0.002
MW36I	6/14/11	Nickel (MG/L)	0.023		0.01		0.1
MW36I	6/14/11	Nitrogen, Nitrate (MG/L)		U	0.013	10	10
MW36I	6/14/11	Nitrogen, Nitrite (MG/L)		U	0.014	1	
MW36I	6/14/11	Potassium (MG/L)	4.8		0.5		
MW36I	6/14/11	Selenium (MG/L)		U	0.015		0.1
MW36I	6/14/11	Silver (MG/L)		U	0.003		0.05
MW36I	6/14/11	Sodium (MG/L)	145		5		
MW36I	6/14/11	Sulfate (MG/L)	4.6		2		400
MW36I	6/14/11	Sulfide (UG/L)	1200	^	1000		
MW36I	6/14/11	Thallium (MG/L)		U	0.001	0.002	0.002
MW36I	6/14/11	Total Cyanide (MG/L)		U	0.02	200	200
MW36I	6/14/11	Total Dissolved Solids (MG/L)	1190		10		1200
MW36I	6/14/11	Total Suspended Solids (MG/L)	18.4		4		
MW36I	6/14/11	Vanadium (MG/L)		U	0.05		
MW36I	6/14/11	Zinc (MG/L)	0.0022	J	0.02		5
MW36I	6/14/11	1,1,1-Trichloroethane (UG/L)		U	1	200	200
MW36I	6/14/11	1,1,2,2-Tetrachloroethane (UG/L)		U	1		
MW36I	6/14/11	1,1,2-Trichloroethane (UG/L)		U	1	5	5
MW36I	6/14/11	1,1-Dichloroethane (UG/L)		U	1		
MW36I	6/14/11	1,1-Dichloroethene (UG/L)		U	1	7	7
MW36I	6/14/11	1,2-Dichloroethane (UG/L)		U	1	5	5
MW36I	6/14/11	1,2-Dichloroethene, Total (UG/L)		U	2		
MW36I	6/14/11	1,2-Dichloropropane (UG/L)		U	1	5	5
MW36I	6/14/11	2-Hexanone (UG/L)		U	10		
MW36I	6/14/11	4-Methyl-2-pentanone (UG/L)		U	5		
MW36I	6/14/11	Acetone (UG/L)	5.2		5		
MW36I	6/14/11	Benzene (UG/L)		U	1	5	5
MW36I	6/14/11	Bromodichloromethane (UG/L)		U	1		
MW36I	6/14/11	Bromoform (UG/L)		U	1		
MW36I	6/14/11	Bromomethane (UG/L)		U	1		
MW36I	6/14/11	Carbon disulfide (UG/L)		U	5		
MW36I	6/14/11	Carbon tetrachloride (UG/L)		U	1	5	5

Appendix E
Elgin Landfill
Intermediate Monitoring Well Network Analytical Data

Well ID	Sample Date	Parameter	Result	Qualifier	Reporting Limit	MCL	Class I ILGWQS
MW36I	6/14/11	Chlorobenzene (UG/L)		U	1	100	100
MW36I	6/14/11	Chloroethane (UG/L)		U	1		
MW36I	6/14/11	Chloroform (UG/L)		U	1		
MW36I	6/14/11	Chloromethane (UG/L)		U	1		
MW36I	6/14/11	cis-1,3-Dichloropropene (UG/L)		U	1		
MW36I	6/14/11	Dibromochloromethane (UG/L)		U	1		
MW36I	6/14/11	Ethylbenzene (UG/L)		U	1	700	700
MW36I	6/14/11	Methylene Chloride (UG/L)		U	2	5	5
MW36I	6/14/11	Styrene (UG/L)		U	1	100	100
MW36I	6/14/11	Tetrachloroethene (UG/L)		U	1	5	5
MW36I	6/14/11	Toluene (UG/L)		U	1	1000	1000
MW36I	6/14/11	Total Organic Carbon (MG/L)	2.2		1		
MW36I	6/14/11	trans-1,3-Dichloropropene (UG/L)		U	1		
MW36I	6/14/11	Trichloroethene (UG/L)		U	1	5	5
MW36I	6/14/11	Vinyl chloride (UG/L)		U	1	2	2
MW36I	6/14/11	Xylenes, Total (UG/L)		U	3	10000	10000
MW38I	6/14/11	2-Butanone (UG/L)		U	5		
MW38I	6/14/11	Alkalinity, Total (MG/L)	306		10		
MW38I	6/14/11	Aluminum (MG/L)	0.12		0.06		
MW38I	6/14/11	Antimony (MG/L)		U	0.001	6	6
MW38I	6/14/11	Arsenic (MG/L)	0.00013	J	0.003	0.01	0.05
MW38I	6/14/11	Barium (MG/L)	0.11		0.005	2	2
MW38I	6/14/11	Beryllium (MG/L)		U	0.001	0.004	0.004
MW38I	6/14/11	Cadmium (MG/L)		U	0.001	0.005	0.005
MW38I	6/14/11	Calcium (MG/L)	75.7		0.5		
MW38I	6/14/11	Chloride (MG/L)	27.5		1		200
MW38I	6/14/11	Chromium (MG/L)		U	0.005	0.1	0.1
MW38I	6/14/11	Cobalt (MG/L)		U	0.05		1
MW38I	6/14/11	Copper (MG/L)		U	0.01	1.3	0.65
MW38I	6/14/11	Iron (MG/L)	1		0.14		5
MW38I	6/14/11	Lead (MG/L)		U	0.005	0.015	0.0075
MW38I	6/14/11	Magnesium (MG/L)	42.2		0.2		
MW38I	6/14/11	Manganese (MG/L)	0.018		0.003		0.15
MW38I	6/14/11	Mercury (MG/L)		U	0.0004	0.002	0.002
MW38I	6/14/11	Nickel (MG/L)		U	0.01		0.1
MW38I	6/14/11	Nitrogen, Nitrate (MG/L)		U	0.013	10	10
MW38I	6/14/11	Nitrogen, Nitrite (MG/L)		U	0.014	1	
MW38I	6/14/11	Potassium (MG/L)	1.4		0.5		
MW38I	6/14/11	Selenium (MG/L)		U	0.015		0.1

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Well ID	Sample Date	Parameter	Result	Qualifier	Reporting Limit	MCL	Class I ILGWQS
MW38I	6/14/11	Silver (MG/L)		U	0.003		0.05
MW38I	6/14/11	Sodium (MG/L)	12.8		5		
MW38I	6/14/11	Sulfate (MG/L)	37.3		1		400
MW38I	6/14/11	Sulfide (UG/L)		U	1000		
MW38I	6/14/11	Thallium (MG/L)		U	0.001	0.002	0.002
MW38I	6/14/11	Total Cyanide (MG/L)		U	0.02	200	200
MW38I	6/14/11	Total Dissolved Solids (MG/L)	386		10		1200
MW38I	6/14/11	Total Suspended Solids (MG/L)		U	4		
MW38I	6/14/11	Vanadium (MG/L)		U	0.05		
MW38I	6/14/11	Zinc (MG/L)		U	0.02		5
MW38I	6/14/11	1,1,1-Trichloroethane (UG/L)		U	1	200	200
MW38I	6/14/11	1,1,2,2-Tetrachloroethane (UG/L)		U	1		
MW38I	6/14/11	1,1,2-Trichloroethane (UG/L)		U	1	5	5
MW38I	6/14/11	1,1-Dichloroethane (UG/L)		U	1		
MW38I	6/14/11	1,1-Dichloroethene (UG/L)		U	1	7	7
MW38I	6/14/11	1,2-Dichloroethane (UG/L)		U	1	5	5
MW38I	6/14/11	1,2-Dichloroethene, Total (UG/L)		U	2		
MW38I	6/14/11	1,2-Dichloropropane (UG/L)		U	1	5	5
MW38I	6/14/11	2-Hexanone (UG/L)		U	10		
MW38I	6/14/11	4-Methyl-2-pentanone (UG/L)		U	5		
MW38I	6/14/11	Acetone (UG/L)		U	5		
MW38I	6/14/11	Benzene (UG/L)		U	1	5	5
MW38I	6/14/11	Bromodichloromethane (UG/L)		U	1		
MW38I	6/14/11	Bromoform (UG/L)		U	1		
MW38I	6/14/11	Bromomethane (UG/L)		U	1		
MW38I	6/14/11	Carbon disulfide (UG/L)		U	5		
MW38I	6/14/11	Carbon tetrachloride (UG/L)		U	1	5	5
MW38I	6/14/11	Chlorobenzene (UG/L)		U	1	100	100
MW38I	6/14/11	Chloroethane (UG/L)		U	1		
MW38I	6/14/11	Chloroform (UG/L)		U	1		
MW38I	6/14/11	Chloromethane (UG/L)		U	1		
MW38I	6/14/11	cis-1,3-Dichloropropene (UG/L)		U	1		
MW38I	6/14/11	Dibromochloromethane (UG/L)		U	1		
MW38I	6/14/11	Ethylbenzene (UG/L)		U	1	700	700
MW38I	6/14/11	Methylene Chloride (UG/L)		U	2	5	5
MW38I	6/14/11	Styrene (UG/L)		U	1	100	100
MW38I	6/14/11	Tetrachloroethene (UG/L)		U	1	5	5
MW38I	6/14/11	Toluene (UG/L)		U	1	1000	1000
MW38I	6/14/11	Total Organic Carbon (MG/L)		U	1		

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Elgin Landfill
Intermediate Monitoring Well Network Analytical Data

Well ID	Sample Date	Parameter	Result	Qualifier	Reporting Limit	MCL	Class I ILGWQS
MW38I	6/14/11	trans-1,3-Dichloropropene (UG/L)		U	1		
MW38I	6/14/11	Trichloroethene (UG/L)		U	1	5	5
MW38I	6/14/11	Vinyl chloride (UG/L)		U	1	2	2
MW38I	6/14/11	Xylenes, Total (UG/L)		U	3	10000	10000

Notes:
Chloride and metals concentrations are total.
MCL = US EPA Maximum Contaminant Level.
ILGWQS = Illinois Class I Groundwater Quality Standard.
Laboratory analyses performed by TestAmerica Buffalo.
Nitrate and nitrite analysis performed by Heritage Environmental Services.

Bold indicates exceedance of ILGWQS.

Italics indicates exceedance of MCL.

Bold and italics indicates exceedance of both the MCL and ILGWQS.

Qualifiers:
B = Compound was found in the blank and sample.
J = Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
H = Sample was prepped or analyzed beyond the specified holding time.
^ = ICV, CCV, ICB, CCB, ISA, ISB, CRI, CRA, DLCK or MRL standard: Instrument related QC exceeds the control limits.
* = RPD of the LCS and LCSD exceeds the control limits.
U = Indicates compound/element was analyzed for, but not detected.

Appendix E
Elgin Landfill
Intermediate Monitoring Well Network Field Data

Well ID	Sample Date	Parameter	Result	Qualifier	Units
G141	6/16/11	Dissolved Oxygen, Field (MG/L)	0.38		MG/L
G141	6/16/11	Ferrous Iron (MG/L)	8.4		MG/L
G141	6/16/11	pH, Field (SU)	7.09		SU
G141	6/16/11	Specific Conductance (UMHOS/CM)	2090		UMHOS/CM
G141	6/16/11	Temperature (DEGREES C)	12.4		DEGREES C
G141	6/16/11	Water Elevation (FT/MSL)	730.21		FT/MSL
MW9I	6/14/11	Dissolved Oxygen, Field (MG/L)	0.34		MG/L
MW9I	6/14/11	Ferrous Iron (MG/L)	0		MG/L
MW9I	6/14/11	pH, Field (SU)	7.11		SU
MW9I	6/14/11	Specific Conductance (UMHOS/CM)	1443		UMHOS/CM
MW9I	6/14/11	Temperature (DEGREES C)	11.7		DEGREES C
MW9I	6/14/11	Water Elevation (FT/MSL)	738.03		FT/MSL
MW22I	6/15/11	Dissolved Oxygen, Field (MG/L)	0.24		MG/L
MW22I	6/15/11	Ferrous Iron (MG/L)	5.8		MG/L
MW22I	6/15/11	pH, Field (SU)	7.02		SU
MW22I	6/15/11	Specific Conductance (UMHOS/CM)	984		UMHOS/CM
MW22I	6/15/11	Temperature (DEGREES C)	12		DEGREES C
MW22I	6/15/11	Water Elevation (FT/MSL)	733.59		FT/MSL
MW23I	6/15/11	Dissolved Oxygen, Field (MG/L)	0.08		MG/L
MW23I	6/15/11	Ferrous Iron (MG/L)	3.4		MG/L
MW23I	6/15/11	pH, Field (SU)	7.1		SU
MW23I	6/15/11	Specific Conductance (UMHOS/CM)	1659		UMHOS/CM
MW23I	6/15/11	Temperature (DEGREES C)	12.3		DEGREES C
MW23I	6/15/11	Water Elevation (FT/MSL)	733.73		FT/MSL
MW36I	6/14/11	Dissolved Oxygen, Field (MG/L)	0.4		MG/L
MW36I	6/14/11	Ferrous Iron (MG/L)	6.2		MG/L
MW36I	6/14/11	pH, Field (SU)	6.94		SU
MW36I	6/14/11	Specific Conductance (UMHOS/CM)	1841		UMHOS/CM
MW36I	6/14/11	Temperature (DEGREES C)	11.2		DEGREES C
MW36I	6/14/11	Water Elevation (FT/MSL)	734.35		FT/MSL
MW38I	6/14/11	Dissolved Oxygen, Field (MG/L)	0.42		MG/L
MW38I	6/14/11	Ferrous Iron (MG/L)	1		MG/L
MW38I	6/14/11	pH, Field (SU)	7.53		SU
MW38I	6/14/11	Specific Conductance (UMHOS/CM)	644		UMHOS/CM
MW38I	6/14/11	Temperature (DEGREES C)	11.1		DEGREES C
MW38I	6/14/11	Water Elevation (FT/MSL)	734.27		FT/MSL

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Well ID	Sample Date	Parameter	Result	Reporting Limit	Qualifier	Units	MCL	Class I ILGWQS
G112	6/17/2011	Alkalinity, Total	657	10.0		MG/L		
G112	**6/17/2011**	**Chloride**	**534**	**2.8**		**MG/L**		**200**
G112	6/17/2011	Nitrate	0.5	0.5	U	MG/L AS N	10	10
G112	6/17/2011	Nitrite	0.5	0.5	U	MG/L AS N	1	
G112	6/17/2011	Sulfate	1.7	1.7	U	MG/L		400
G112	6/17/2011	Sulfide	1000	1000	U	UG/L		
G112	**6/17/2011**	**Total Dissolved Solids**	**1970**	**10.0**		**MG/L**		**1200**
G112	6/17/2011	Total Organic Carbon	28.8	1.0		MG/L		
G112	6/17/2011	Total Suspended Solids	8.8	4.0		MG/L		
MW1DR	6/16/2011	Alkalinity, Total	375	10.0		MG/L		
MW1DR	6/16/2011	Chloride	69.2	1.0		MG/L		200
MW1DR	6/16/2011	Nitrate	0.5	0.5	U	MG/L AS N	10	10
MW1DR	6/16/2011	Nitrite	0.5	0.5	U	MG/L AS N	1	
MW1DR	6/16/2011	Sulfate	11.6	1.0		MG/L		400
MW1DR	6/16/2011	Sulfide	1340	1340	U	UG/L		
MW1DR	6/16/2011	Total Dissolved Solids	523	10.0		MG/L		1200
MW1DR	6/16/2011	Total Organic Carbon	3.1	1.0		MG/L		
MW1DR	6/16/2011	Total Suspended Solids	4	4.0	U	MG/L		
MW1DR	6/16/2011	1,1,1-Trichloroethane	1	1.0	U	UG/L	200	200
MW1DR	6/16/2011	1,1,2,2-Tetrachloroethane	1	1.0	U	UG/L		
MW1DR	6/16/2011	1,1,2-Trichloroethane	1	1.0	U	UG/L	5	5
MW1DR	6/16/2011	1,1-Dichloroethane	1	1.0	U	UG/L		
MW1DR	6/16/2011	1,1-Dichloroethene	1	1.0	U	UG/L	7	7
MW1DR	6/16/2011	1,2-Dichloroethane	1	1.0	U	UG/L	5	5
MW1DR	6/16/2011	1,2-Dichloropropane	1	1.0	U	UG/L	5	5
MW1DR	6/16/2011	2-Hexanone	10	10	U	UG/L		
MW1DR	6/16/2011	Acetone	10	10	U	UG/L		
MW1DR	6/16/2011	Benzene	1	1.0	U	UG/L	5	5
MW1DR	6/16/2011	Bromodichloromethane	1	1.0	U	UG/L		
MW1DR	6/16/2011	Bromoform	1	1.0	U	UG/L		
MW1DR	6/16/2011	Bromomethane	1	1.0	U	UG/L		
MW1DR	6/16/2011	Carbon disulfide	5	5.0	U	UG/L		
MW1DR	6/16/2011	Carbon tetrachloride	1	1.0	U	UG/L	5	5
MW1DR	6/16/2011	Chlorobenzene	1	1.0	U	UG/L	100	100
MW1DR	6/16/2011	Chloroethane	1	1.0	U	UG/L		
MW1DR	6/16/2011	Chloroform	1	1.0	U	UG/L		
MW1DR	6/16/2011	Chloromethane	1	1.0	U	UG/L		
MW1DR	6/16/2011	cis-1,2-Dichloroethene	1	1.0	U	UG/L	70	70
MW1DR	6/16/2011	cis-1,3-Dichloropropene	1	1.0	U	UG/L		

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Well ID	Sample Date	Parameter	Result	Reporting Limit	Qualifier	Units	MCL	Class I ILGWQS
MW1DR	6/16/2011	Dibromochloromethane	1	1.0	U	UG/L		
MW1DR	6/16/2011	Ethylbenzene	1	1.0	U	UG/L	700	700
MW1DR	6/16/2011	Ketone, ethyl methyl	10	10	U	UG/L		
MW1DR	6/16/2011	methyl isobutyl ketone	10	10	U	UG/L		
MW1DR	6/16/2011	Methylene Chloride	2	2.0	U	UG/L	5	5
MW1DR	6/16/2011	Styrene	1	1.0	U	UG/L	100	100
MW1DR	6/16/2011	Tetrachloroethene	1	1.0	U	UG/L	5	5
MW1DR	6/16/2011	Toluene	1	1.0	U	UG/L	1000	1000
MW1DR	6/16/2011	trans-1,2-Dichloroethene	1	1.0	U	UG/L	100	100
MW1DR	6/16/2011	trans-1,3-Dichloropropene	1	1.0	U	UG/L		
MW1DR	6/16/2011	Trichloroethene	1	1.0	U	UG/L	5	5
MW1DR	6/16/2011	Vinyl chloride	1	1.0	U	UG/L	2	2
MW1DR	6/16/2011	Xylenes, Total	3	3.0	U	UG/L	10000	10000
MW40DR	6/15/2011	Alkalinity, Total	390	10.0		MG/L		
MW40DR	**6/15/2011**	**Chloride**	**309**	**2.8**		**MG/L**		**200**
MW40DR	6/15/2011	Nitrate	0.5	0.5	U	MG/L AS N	10	10
MW40DR	6/15/2011	Nitrite	0.5	0.5	U	MG/L AS N	1	
MW40DR	6/15/2011	Sulfate	29.6	1.0		MG/L		400
MW40DR	6/15/2011	Sulfide	1000	1000	U	UG/L		
MW40DR	6/15/2011	Total Dissolved Solids	1190	10.0		MG/L		1200
MW40DR	6/15/2011	Total Organic Carbon	3.7	1.0		MG/L		
MW40DR	6/15/2011	Total Suspended Solids	21.6	4.0		MG/L		
MW40DR	6/15/2011	Aluminum	0.06	0.060	U	MG/L		
MW40DR	6/15/2011	Antimony	0.007	0.0070	U	MG/L	6	6
MW40DR	*6/15/2011*	*Arsenic*	*0.035*	*0.010*		*MG/L*	*0.01*	*0.05*
MW40DR	6/15/2011	Barium	0.34	0.0050		MG/L	2	2
MW40DR	6/15/2011	Beryllium	0.001	0.0010	U	MG/L	0.004	0.004
MW40DR	6/15/2011	Cadmium	0.001	0.0010	U	MG/L	0.005	0.005
MW40DR	6/15/2011	Calcium	93.2	0.10		MG/L		
MW40DR	6/15/2011	Chromium	0.004	0.0030		MG/L	0.1	0.1
MW40DR	6/15/2011	Cobalt	0.003	0.0030	U	MG/L		1
MW40DR	6/15/2011	Copper	0.004	0.0040	U	MG/L	1.3	0.65
MW40DR	**6/15/2011**	**Iron**	**11.1**	**0.060**		**MG/L**		**5**
MW40DR	6/15/2011	Lead	0.005	0.0050	U	MG/L	0.015	0.0075
MW40DR	6/15/2011	Magnesium	59.4	0.050		MG/L		
MW40DR	**6/15/2011**	**Manganese**	**0.2**	**0.0010**		**MG/L**		**0.15**
MW40DR	6/15/2011	Mercury	0.0002	0.00020	U	MG/L	0.002	0.002
MW40DR	6/15/2011	Nickel	0.016	0.0040		MG/L		0.1
MW40DR	6/15/2011	Potassium	7.8	0.20	B	MG/L		

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Well ID	Sample Date	Parameter	Result	Reporting Limit	Qualifier	Units	MCL	Class I ILGWQS
MW40DR	6/15/2011	Selenium	0.01	0.010	U	MG/L	0.05	0.05
MW40DR	6/15/2011	Silver	0.004	0.0040	U	MG/L		0.05
MW40DR	6/15/2011	Sodium	115	1.0		MG/L		
MW40DR	6/15/2011	Thallium	0.002	0.0020	U	MG/L	0.002	0.002
MW40DR	6/15/2011	Total Cyanide	0.02	0.020	U	MG/L	200	200
MW40DR	6/15/2011	Vanadium	0.003	0.0030	U	MG/L		
MW40DR	6/15/2011	Zinc	0.005	0.0050	U	MG/L		5
MW40DR	6/15/2011	1,1,1-Trichloroethane	1	1.0	U	UG/L	200	200
MW40DR	6/15/2011	1,1,2,2-Tetrachloroethane	1	1.0	U	UG/L		
MW40DR	6/15/2011	1,1,2-Trichloroethane	1	1.0	U	UG/L	5	5
MW40DR	6/15/2011	1,1-Dichloroethane	1	1.0	U	UG/L		
MW40DR	6/15/2011	1,1-Dichloroethene	1	1.0	U	UG/L	7	7
MW40DR	6/15/2011	1,2-Dichloroethane	1	1.0	U	UG/L	5	5
MW40DR	6/15/2011	1,2-Dichloropropane	1	1.0	U	UG/L	5	5
MW40DR	6/15/2011	2-Hexanone	10	10	U	UG/L		
MW40DR	6/15/2011	Acetone	10	10	U	UG/L		
MW40DR	6/15/2011	Benzene	1	1.0	U	UG/L	5	5
MW40DR	6/15/2011	Bromodichloromethane	1	1.0	U	UG/L		
MW40DR	6/15/2011	Bromoform	1	1.0	U	UG/L		
MW40DR	6/15/2011	Bromomethane	1	1.0	U	UG/L		
MW40DR	6/15/2011	Carbon disulfide	5	5.0	U	UG/L		
MW40DR	6/15/2011	Carbon tetrachloride	1	1.0	U	UG/L	5	5
MW40DR	6/15/2011	Chlorobenzene	1	1.0	U	UG/L	100	100
MW40DR	6/15/2011	Chloroethane	1	1.0	U	UG/L		
MW40DR	6/15/2011	Chloroform	1	1.0	U	UG/L		
MW40DR	6/15/2011	Chloromethane	1	1.0	U	UG/L		
MW40DR	6/15/2011	cis-1,2-Dichloroethene	1	1.0	U	UG/L	70	70
MW40DR	6/15/2011	cis-1,3-Dichloropropene	1	1.0	U	UG/L		
MW40DR	6/15/2011	Dibromochloromethane	1	1.0	U	UG/L		
MW40DR	6/15/2011	Ethylbenzene	1	1.0	U	UG/L	700	700
MW40DR	6/15/2011	Ketone, ethyl methyl	10	10	U	UG/L		
MW40DR	6/15/2011	methyl isobutyl ketone	10	10	U	UG/L		
MW40DR	6/15/2011	Methylene Chloride	2	2.0	U	UG/L	5	5
MW40DR	6/15/2011	Styrene	1	1.0	U	UG/L	100	100
MW40DR	6/15/2011	Tetrachloroethene	1	1.0	U	UG/L	5	5
MW40DR	6/15/2011	Toluene	1	1.0	U	UG/L	1000	1000
MW40DR	6/15/2011	trans-1,2-Dichloroethene	1	1.0	U	UG/L	100	100
MW40DR	6/15/2011	trans-1,3-Dichloropropene	1	1.0	U	UG/L		
MW40DR	6/15/2011	Trichloroethene	1	1.0	U	UG/L	5	5

Appendix E
Tri-County Landfill
Deep Monitoring Well Network Analytical Data

Well ID	Sample Date	Parameter	Result	Reporting Limit	Qualifier	Units	MCL	Class I ILGWQS
MW40DR	6/15/2011	Vinyl chloride	1	1.0	U	UG/L	2	2
MW40DR	6/15/2011	Xylenes, Total	3	3.0	U	UG/L	10000	10000

Notes:
Chloride and metals concentrations are total.
MCL = US EPA Maximum Contaminant Level.
ILGWQS = Illinois Class I Groundwater Quality Standard.
Laboratory analyses performed by TestAmerica Buffalo.

Bold indicates exceedance of ILGWQS.

Italics indicates exceedance of MCL.

Bold and italics indicates exceedance of both the MCL and ILGWQS.

Qualifiers:
B = Compound was found in the blank and sample.
U = Indicates compound/element was analyzed for, but not detected.

Appendix E
Tri-County Landfill
Deep Monitoring Well Network Field Data

Well ID	Sample Date	Parameter	Result	Qualifier	Units
G112	6/17/2011	Depth to water from land surface	32.28		FT
G112	6/17/2011	Depth to Water from Top of Casing	34.55		FT
G112	6/13/2011	Depth to Water from Top of Casing (initial)	34.26		FT
G112	6/17/2011	Dissolved Oxygen, Field	5.91		MG/L
G112	6/17/2011	Elevation Bottom of Well	650.1		FT/MSL
G112	6/17/2011	Ferrous Iron	0.25		MG/L
G112	6/17/2011	Field EH/ORP	-126.1		MILLIVOLTS
G112	6/17/2011	Measuring Point Elevation	758.68		FT/MSL
G112	6/17/2011	pH, Field	6.98		SU
G112	6/17/2011	Specific Conductance, Field	2361		UMHOS/CM
G112	6/17/2011	Temperature, Field (°F)	56.4		DEGREES F
G112	6/17/2011	Turbidity	4.24		NTU
G112	6/17/2011	Water Elevation	725.12		FT/MSL
G112	6/13/2011	Water Elevation (initial)	724.42		FT/MSL
MW1DR	6/16/2011	Depth to water from land surface	10.91		FT
MW1DR	6/16/2011	Depth to Water from Top of Casing	13.01		FT
MW1DR	6/13/2011	Depth to Water from Top of Casing (initial)	12.85		FT
MW1DR	6/16/2011	Dissolved Oxygen, Field	3.41		MG/L
MW1DR	6/16/2011	Elevation Bottom of Well	658.85		FT/MSL
MW1DR	6/16/2011	Ferrous Iron	0.09		MG/L
MW1DR	6/16/2011	Field EH/ORP	-151.6		MILLIVOLTS
MW1DR	6/16/2011	Measuring Point Elevation	742.39		FT/MSL
MW1DR	6/16/2011	pH, Field	7.6		SU
MW1DR	6/16/2011	Specific Conductance, Field	846		UMHOS/CM
MW1DR	6/16/2011	Temperature, Field (°F)	55.4		DEGREES F
MW1DR	6/16/2011	Turbidity	0.87		NTU
MW1DR	6/16/2011	Water Elevation	729.54		FT/MSL
MW1DR	6/13/2011	Water Elevation (initial)	729.54		FT/MSL
MW40DR	6/15/2011	Depth to water from land surface	25.82		FT
MW40DR	6/15/2011	Depth to Water from Top of Casing	27.92		FT
MW40DR	6/13/2011	Depth to Water from Top of Casing (initial)	27.89		FT
MW40DR	6/15/2011	Dissolved Oxygen, Field	3.76		MG/L
MW40DR	6/15/2011	Elevation Bottom of Well	649.39		FT/MSL
MW40DR	6/15/2011	Ferrous Iron	0.17		MG/L
MW40DR	6/15/2011	Field EH/ORP	-105.5		MILLIVOLTS
MW40DR	6/15/2011	Measuring Point Elevation	757.43		FT/MSL
MW40DR	6/15/2011	pH, Field	7.09		SU
MW40DR	6/15/2011	Specific Conductance, Field	1677		UMHOS/CM
MW40DR	6/15/2011	Temperature, Field (°F)	54.6		DEGREES F

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Deep Monitoring Well Network Field Data

Well ID	Sample Date	Parameter	Result	Qualifier	Units
MW40DR	6/15/2011	Turbidity	28.1		NTU
MW40DR	6/15/2011	Water Elevation	729.51		FT/MSL
MW40DR	6/13/2011	Water Elevation (initial)	729.54		FT/MSL

Appendix E
Elgin Landfill
Deep Monitoring Well Network Analytical Data

Well ID	Sample Date	Parameter	Result	Qualifier	Reporting Limit	MCL	Class I ILGWQS
G111	6/16/11	2-Butanone (UG/L)		U	5		
G111	6/16/11	Alkalinity, Total (MG/L)	702		10		
G111	6/16/11	Aluminum (MG/L)	0.26		0.06		
G111	6/16/11	Antimony (MG/L)	0.00038	J	0.001	6	6
G111	6/16/11	Arsenic (MG/L)	0.006		0.003	0.01	0.05
G111	6/16/11	Barium (MG/L)	0.44		0.005	2	2
G111	6/16/11	Beryllium (MG/L)		U ^	0.001	0.004	0.004
G111	6/16/11	Cadmium (MG/L)	0.00062	J	0.001	0.005	0.005
G111	6/16/11	Calcium (MG/L)	147		0.5		
G111	**6/16/11**	**Chloride (MG/L)**	**339**		**5**		**200**
G111	6/16/11	Chromium (MG/L)	0.0019	J	0.005	0.1	0.1
G111	6/16/11	Cobalt (MG/L)	0.00093	J	0.05		1
G111	6/16/11	Copper (MG/L)	0.0019	J	0.01	1.3	0.65
G111	**6/16/11**	**Iron (MG/L)**	**8.8**		**0.14**		**5**
G111	6/16/11	Lead (MG/L)		U	0.005	0.015	0.0075
G111	6/16/11	Magnesium (MG/L)	101		0.2		
G111	6/16/11	Manganese (MG/L)	0.038		0.003		0.15
G111	6/16/11	Mercury (MG/L)		U	0.0004	0.002	0.002
G111	6/16/11	Nickel (MG/L)	0.0091	J	0.01		0.1
G111	6/16/11	Nitrogen, Nitrate (MG/L)		U	0.013	10	10
G111	6/16/11	Nitrogen, Nitrite (MG/L)		U	0.014	1	
G111	6/16/11	Potassium (MG/L)	8.5		0.5		
G111	6/16/11	Selenium (MG/L)		U	0.015		0.1
G111	6/16/11	Silver (MG/L)		U	0.003		0.05
G111	6/16/11	Sodium (MG/L)	166		5		
G111	6/16/11	Sulfate (MG/L)		U	1		400
G111	6/16/11	Sulfide (UG/L)		U	1000		
G111	6/16/11	Thallium (MG/L)		U	0.001	0.002	0.002
G111	6/16/11	Total Cyanide (MG/L)		U	0.02	200	200
G111	**6/16/11**	**Total Dissolved Solids (MG/L)**	**1490**		**10**		**1200**
G111	6/16/11	Total Suspended Solids (MG/L)	35.6		4		
G111	6/16/11	Vanadium (MG/L)	0.0013	J	0.05		
G111	6/16/11	Zinc (MG/L)	0.0049	J	0.02		5
G111	6/16/11	1,1,1-Trichloroethane (UG/L)		U	1	200	200
G111	6/16/11	1,1,2,2-Tetrachloroethane (UG/L)		U	1		
G111	6/16/11	1,1,2-Trichloroethane (UG/L)		U	1	5	5
G111	6/16/11	1,1-Dichloroethane (UG/L)		U	1		
G111	6/16/11	1,1-Dichloroethene (UG/L)		U	1	7	7
G111	6/16/11	1,2-Dichloroethane (UG/L)		U	1	5	5

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Deep Monitoring Well Network Analytical Data

Well ID	Sample Date	Parameter	Result	Qualifier	Reporting Limit	MCL	Class I ILGWQS
G111	6/16/11	1,2-Dichloroethene, Total (UG/L)		U	2		
G111	6/16/11	1,2-Dichloropropane (UG/L)		U	1	5	5
G111	6/16/11	2-Hexanone (UG/L)		U	10		
G111	6/16/11	4-Methyl-2-pentanone (UG/L)		U	5		
G111	6/16/11	Acetone (UG/L)	4.1	J	5		
G111	6/16/11	Benzene (UG/L)		U	1	5	5
G111	6/16/11	Bromodichloromethane (UG/L)		U	1		
G111	6/16/11	Bromoform (UG/L)		U	1		
G111	6/16/11	Bromomethane (UG/L)		U	1		
G111	6/16/11	Carbon disulfide (UG/L)		U	5		
G111	6/16/11	Carbon tetrachloride (UG/L)		U	1	5	5
G111	6/16/11	Chlorobenzene (UG/L)		U	1	100	100
G111	6/16/11	Chloroethane (UG/L)	1.2		1		
G111	6/16/11	Chloroform (UG/L)		U	1		
G111	6/16/11	Chloromethane (UG/L)		U	1		
G111	6/16/11	cis-1,3-Dichloropropene (UG/L)		U	1		
G111	6/16/11	Dibromochloromethane (UG/L)		U	1		
G111	6/16/11	Ethylbenzene (UG/L)		U	1	700	700
G111	6/16/11	Methylene Chloride (UG/L)		U	2	5	5
G111	6/16/11	Styrene (UG/L)		U	1	100	100
G111	6/16/11	Tetrachloroethene (UG/L)		U	1	5	5
G111	6/16/11	Toluene (UG/L)		U	1	1000	1000
G111	6/16/11	Total Organic Carbon (MG/L)	2.9		1		
G111	6/16/11	trans-1,3-Dichloropropene (UG/L)		U	1		
G111	6/16/11	Trichloroethene (UG/L)		U	1	5	5
G111	6/16/11	Vinyl chloride (UG/L)		U	1	2	2
G111	6/16/11	Xylenes, Total (UG/L)		U	3	10000	10000
MW9D	6/14/11	2-Butanone (UG/L)		U	5		
MW9D	6/14/11	1,1,1-Trichloroethane (UG/L)		U	1	200	200
MW9D	6/14/11	1,1,2,2-Tetrachloroethane (UG/L)		U	1		
MW9D	6/14/11	1,1,2-Trichloroethane (UG/L)		U	1	5	5
MW9D	6/14/11	1,1-Dichloroethane (UG/L)		U	1		
MW9D	6/14/11	1,1-Dichloroethene (UG/L)		U	1	7	7
MW9D	6/14/11	1,2-Dichloroethane (UG/L)		U	1	5	5
MW9D	6/14/11	1,2-Dichloroethene, Total (UG/L)		U	2		
MW9D	6/14/11	1,2-Dichloropropane (UG/L)		U	1	5	5
MW9D	6/14/11	2-Hexanone (UG/L)		U	10		
MW9D	6/14/11	4-Methyl-2-pentanone (UG/L)		U	5		
MW9D	6/14/11	Acetone (UG/L)		U	5		

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Deep Monitoring Well Network Analytical Data

Well ID	Sample Date	Parameter	Result	Qualifier	Reporting Limit	MCL	Class I ILGWQS
MW9D	6/14/11	Benzene (UG/L)		U	1	5	5
MW9D	6/14/11	Bromodichloromethane (UG/L)		U	1		
MW9D	6/14/11	Bromoform (UG/L)		U	1		
MW9D	6/14/11	Bromomethane (UG/L)		U	1		
MW9D	6/14/11	Carbon disulfide (UG/L)		U	5		
MW9D	6/14/11	Carbon tetrachloride (UG/L)		U	1	5	5
MW9D	6/14/11	Chlorobenzene (UG/L)		U	1	100	100
MW9D	6/14/11	Chloroethane (UG/L)		U	1		
MW9D	6/14/11	Chloroform (UG/L)		U	1		
MW9D	6/14/11	Chloromethane (UG/L)		U	1		
MW9D	6/14/11	cis-1,3-Dichloropropene (UG/L)		U	1		
MW9D	6/14/11	Dibromochloromethane (UG/L)		U	1		
MW9D	6/14/11	Ethylbenzene (UG/L)		U	1	700	700
MW9D	6/14/11	Methylene Chloride (UG/L)		U	2	5	5
MW9D	6/14/11	Styrene (UG/L)		U	1	100	100
MW9D	6/14/11	Tetrachloroethene (UG/L)		U	1	5	5
MW9D	6/14/11	Toluene (UG/L)		U	1	1000	1000
MW9D	6/14/11	trans-1,3-Dichloropropene (UG/L)		U	1		
MW9D	6/14/11	Trichloroethene (UG/L)		U	1	5	5
MW9D	6/14/11	Vinyl chloride (UG/L)		U	1	2	2
MW9D	6/14/11	Xylenes, Total (UG/L)		U	3	10000	10000
MW36D	6/14/11	2-Butanone (UG/L)		U	5		
MW36D	6/14/11	Alkalinity, Total (MG/L)	311		10		
MW36D	6/14/11	Aluminum (MG/L)		U	0.06		
MW36D	6/14/11	Antimony (MG/L)		U	0.001	6	6
MW36D	6/14/11	Arsenic (MG/L)	0.0023	J	0.003	0.01	0.05
MW36D	6/14/11	Barium (MG/L)	0.094		0.005	2	2
MW36D	6/14/11	Beryllium (MG/L)		U	0.001	0.004	0.004
MW36D	6/14/11	Cadmium (MG/L)	0.00037	J	0.001	0.005	0.005
MW36D	6/14/11	Calcium (MG/L)	67		0.5		
MW36D	6/14/11	Chloride (MG/L)	103		2		200
MW36D	6/14/11	Chromium (MG/L)	0.094		0.005	0.1	0.1
MW36D	6/14/11	Cobalt (MG/L)	0.0019	J	0.05		1
MW36D	6/14/11	Copper (MG/L)	0.014		0.01	1.3	0.65
MW36D	6/14/11	Iron (MG/L)	0.57		0.14		5
MW36D	6/14/11	Lead (MG/L)		U	0.005	0.015	0.0075
MW36D	6/14/11	Magnesium (MG/L)	57.5		0.2		
MW36D	**6/14/11**	**Manganese (MG/L)**	**0.4**		**0.003**		**0.15**
MW36D	6/14/11	Mercury (MG/L)		U	0.0004	0.002	0.002

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Well ID	Sample Date	Parameter	Result	Qualifier	Reporting Limit	MCL	Class I ILGWQS
MW36D	6/14/11	Nickel (MG/L)	0.052		0.01		0.1
MW36D	6/14/11	Nitrogen, Nitrate (MG/L)	0.15		0.013	10	10
MW36D	6/14/11	Nitrogen, Nitrite (MG/L)		U	0.014	1	
MW36D	6/14/11	Potassium (MG/L)	2.4		0.5		
MW36D	6/14/11	Selenium (MG/L)		U	0.015		0.1
MW36D	6/14/11	Silver (MG/L)		U	0.003		0.05
MW36D	6/14/11	Sodium (MG/L)	33		5		
MW36D	6/14/11	Sulfate (MG/L)	5.8		1		400
MW36D	6/14/11	Sulfide (UG/L)	800	J ^	1000		
MW36D	6/14/11	Thallium (MG/L)		U	0.001	0.002	0.002
MW36D	6/14/11	Total Cyanide (MG/L)		U	0.02	200	200
MW36D	6/14/11	Total Dissolved Solids (MG/L)	497		10		1200
MW36D	6/14/11	Total Suspended Solids (MG/L)		U	4		
MW36D	6/14/11	Vanadium (MG/L)	0.0011	J	0.05		
MW36D	6/14/11	Zinc (MG/L)	0.0061	J	0.02		5
MW36D	6/14/11	1,1,1-Trichloroethane (UG/L)		U	1	200	200
MW36D	6/14/11	1,1,2,2-Tetrachloroethane (UG/L)		U	1		
MW36D	6/14/11	1,1,2-Trichloroethane (UG/L)		U	1	5	5
MW36D	6/14/11	1,1-Dichloroethane (UG/L)		U	1		
MW36D	6/14/11	1,1-Dichloroethene (UG/L)		U	1	7	7
MW36D	6/14/11	1,2-Dichloroethane (UG/L)		U	1	5	5
MW36D	6/14/11	1,2-Dichloroethene, Total (UG/L)		U	2		
MW36D	6/14/11	1,2-Dichloropropane (UG/L)		U	1	5	5
MW36D	6/14/11	2-Hexanone (UG/L)		U	10		
MW36D	6/14/11	4-Methyl-2-pentanone (UG/L)		U	5		
MW36D	6/14/11	Acetone (UG/L)	3	J	5		
MW36D	6/14/11	Benzene (UG/L)	0.78	J	1	5	5
MW36D	6/14/11	Bromodichloromethane (UG/L)		U	1		
MW36D	6/14/11	Bromoform (UG/L)		U	1		
MW36D	6/14/11	Bromomethane (UG/L)		U	1		
MW36D	6/14/11	Carbon disulfide (UG/L)		U	5		
MW36D	6/14/11	Carbon tetrachloride (UG/L)		U	1	5	5
MW36D	6/14/11	Chlorobenzene (UG/L)		U	1	100	100
MW36D	6/14/11	Chloroethane (UG/L)		U	1		
MW36D	6/14/11	Chloroform (UG/L)		U	1		
MW36D	6/14/11	Chloromethane (UG/L)		U	1		
MW36D	6/14/11	cis-1,3-Dichloropropene (UG/L)		U	1		
MW36D	6/14/11	Dibromochloromethane (UG/L)		U	1		
MW36D	6/14/11	Ethylbenzene (UG/L)		U	1	700	700

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Well ID	Sample Date	Parameter	Result	Qualifier	Reporting Limit	MCL	Class I ILGWQS
MW36D	6/14/11	Methylene Chloride (UG/L)		U	2	5	5
MW36D	6/14/11	Styrene (UG/L)		U	1	100	100
MW36D	6/14/11	Tetrachloroethene (UG/L)		U	1	5	5
MW36D	6/14/11	Toluene (UG/L)	1.4		1	1000	1000
MW36D	6/14/11	Total Organic Carbon (MG/L)		U	1		
MW36D	6/14/11	trans-1,3-Dichloropropene (UG/L)		U	1		
MW36D	6/14/11	Trichloroethene (UG/L)		U	1	5	5
MW36D	6/14/11	Vinyl chloride (UG/L)		U	1	2	2
MW36D	6/14/11	Xylenes, Total (UG/L)		U	3	10000	10000
MW38D	6/14/11	2-Butanone (UG/L)		U	5		
MW38D	6/14/11	Alkalinity, Total (MG/L)	298		10		
MW38D	6/14/11	Aluminum (MG/L)		U	0.06		
MW38D	6/14/11	Antimony (MG/L)		U	0.001	6	6
MW38D	6/14/11	Arsenic (MG/L)	0.0034		0.003	0.01	0.05
MW38D	6/14/11	Barium (MG/L)	0.074		0.005	2	2
MW38D	6/14/11	Beryllium (MG/L)		U	0.001	0.004	0.004
MW38D	6/14/11	Cadmium (MG/L)		U	0.001	0.005	0.005
MW38D	6/14/11	Calcium (MG/L)	52.4		0.5		
MW38D	6/14/11	Chloride (MG/L)	26.2		1		200
MW38D	6/14/11	Chromium (MG/L)	0.0019	J	0.005	0.1	0.1
MW38D	6/14/11	Cobalt (MG/L)		U	0.05		1
MW38D	6/14/11	Copper (MG/L)		U	0.01	1.3	0.65
MW38D	6/14/11	Iron (MG/L)	2.1		0.14		5
MW38D	6/14/11	Lead (MG/L)		U	0.005	0.015	0.0075
MW38D	6/14/11	Magnesium (MG/L)	40.7		0.2		
MW38D	**6/14/11**	**Manganese (MG/L)**	**0.23**		**0.003**		**0.15**
MW38D	6/14/11	Mercury (MG/L)		U	0.0004	0.002	0.002
MW38D	6/14/11	Nickel (MG/L)	0.0018	J	0.01		0.1
MW38D	6/14/11	Nitrogen, Nitrate (MG/L)		U	0.013	10	10
MW38D	6/14/11	Nitrogen, Nitrite (MG/L)		U	0.014	1	
MW38D	6/14/11	Potassium (MG/L)	1.8		0.5		
MW38D	6/14/11	Selenium (MG/L)		U	0.015		0.1
MW38D	6/14/11	Silver (MG/L)		U	0.003		0.05
MW38D	6/14/11	Sodium (MG/L)	20.7		5		
MW38D	6/14/11	Sulfate (MG/L)	4.7		1		400
MW38D	6/14/11	Sulfide (UG/L)		U	1000		
MW38D	6/14/11	Thallium (MG/L)		U	0.001	0.002	0.002
MW38D	6/14/11	Total Cyanide (MG/L)		U	0.02	200	200
MW38D	6/14/11	Total Dissolved Solids (MG/L)	287		10		1200

Appendix E
Elgin Landfill
Deep Monitoring Well Network Analytical Data

Well ID	Sample Date	Parameter	Result	Qualifier	Reporting Limit	MCL	Class I ILGWQS
MW38D	6/14/11	Total Suspended Solids (MG/L)		U	4		
MW38D	6/14/11	Vanadium (MG/L)		U	0.05		
MW38D	6/14/11	Zinc (MG/L)		U	0.02		5
MW38D	6/14/11	1,1,1-Trichloroethane (UG/L)		U	1	200	200
MW38D	6/14/11	1,1,2,2-Tetrachloroethane (UG/L)		U	1		
MW38D	6/14/11	1,1,2-Trichloroethane (UG/L)		U	1	5	5
MW38D	6/14/11	1,1-Dichloroethane (UG/L)	0.99	J	1		
MW38D	6/14/11	1,1-Dichloroethene (UG/L)		U	1	7	7
MW38D	6/14/11	1,2-Dichloroethane (UG/L)		U	1	5	5
MW38D	6/14/11	1,2-Dichloroethene, Total (UG/L)		U	2		
MW38D	6/14/11	1,2-Dichloropropane (UG/L)		U	1	5	5
MW38D	6/14/11	2-Hexanone (UG/L)		U	10		
MW38D	6/14/11	4-Methyl-2-pentanone (UG/L)		U	5		
MW38D	6/14/11	Acetone (UG/L)		U	5		
MW38D	6/14/11	Benzene (UG/L)		U	1	5	5
MW38D	6/14/11	Bromodichloromethane (UG/L)		U	1		
MW38D	6/14/11	Bromoform (UG/L)		U	1		
MW38D	6/14/11	Bromomethane (UG/L)		U	1		
MW38D	6/14/11	Carbon disulfide (UG/L)		U	5		
MW38D	6/14/11	Carbon tetrachloride (UG/L)		U	1	5	5
MW38D	6/14/11	Chlorobenzene (UG/L)		U	1	100	100
MW38D	6/14/11	Chloroethane (UG/L)		U	1		
MW38D	6/14/11	Chloroform (UG/L)		U	1		
MW38D	6/14/11	Chloromethane (UG/L)		U	1		
MW38D	6/14/11	cis-1,3-Dichloropropene (UG/L)		U	1		
MW38D	6/14/11	Dibromochloromethane (UG/L)		U	1		
MW38D	6/14/11	Ethylbenzene (UG/L)		U	1	700	700
MW38D	6/14/11	Methylene Chloride (UG/L)		U	2	5	5
MW38D	6/14/11	Styrene (UG/L)		U	1	100	100
MW38D	6/14/11	Tetrachloroethene (UG/L)		U	1	5	5
MW38D	6/14/11	Toluene (UG/L)		U	1	1000	1000
MW38D	6/14/11	Total Organic Carbon (MG/L)		U	1		
MW38D	6/14/11	trans-1,3-Dichloropropene (UG/L)		U	1		
MW38D	6/14/11	Trichloroethene (UG/L)		U	1	5	5
MW38D	6/14/11	Vinyl chloride (UG/L)		U	1	2	2
MW38D	6/14/11	Xylenes, Total (UG/L)		U	3	10000	10000

Appendix E
Elgin Landfill
Deep Monitoring Well Network Analytical Data

Well ID	Sample Date	Parameter	Result	Qualifier	Reporting Limit	MCL	Class I ILGWQS

Notes:
Chloride and metals concentrations are total.
MCL = US EPA Maximum Contaminant Level.
ILGWQS = Illinois Class I Groundwater Quality Standard.
Laboratory analyses performed by TestAmerica Buffalo.
Nitrate and nitrite analysis performed by Heritage Environmental Services.

Bold indicates exceedance of ILGWQS.

Italics indicates exceedance of MCL.

Bold and italics indicates exceedance of both the MCL and ILGWQS.

Qualifiers:
B = Compound was found in the blank and sample.
J = Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
H = Sample was prepped or analyzed beyond the specified holding time.
^ = ICV, CCV, ICB, CCB, ISA, ISB, CRI, CRA, DLCK or MRL standard: Instrument related QC exceeds the control limits.
* = RPD of the LCS and LCSD exceeds the control limits.
U = Indicates compound/element was analyzed for, but not detected.

Appendix E
Elgin Landfill
Deep Monitoring Well Network Field Data

Well ID	Sample Date	Parameter	Result	Qualifier	Units
G111	6/16/11	Dissolved Oxygen, Field (MG/L)	0.8		MG/L
G111	6/16/11	Ferrous Iron (MG/L)	3.4		MG/L
G111	6/16/11	pH, Field (SU)	7.48		SU
G111	6/16/11	Specific Conductance (UMHOS/CM)	746		UMHOS/CM
G111	6/16/11	Temperature (DEGREES C)	12.2		DEGREES C
G111	6/16/11	Water Elevation (FT/MSL)	733.51		FT/MSL
MW36D	6/14/11	Dissolved Oxygen, Field (MG/L)	3.58		MG/L
MW36D	6/14/11	Ferrous Iron (MG/L)	0		MG/L
MW36D	6/14/11	pH, Field (SU)	7.57		SU
MW36D	6/14/11	Specific Conductance (UMHOS/CM)	806		UMHOS/CM
MW36D	6/14/11	Temperature (DEGREES C)	11.6		DEGREES C
MW36D	6/14/11	Water Elevation (FT/MSL)	731.05		FT/MSL
MW38D	6/14/11	Dissolved Oxygen, Field (MG/L)	8.59		MG/L
MW38D	6/14/11	Ferrous Iron (MG/L)	0.8		MG/L
MW38D	6/14/11	pH, Field (SU)	7.5		SU
MW38D	6/14/11	Specific Conductance (UMHOS/CM)	585		UMHOS/CM
MW38D	6/14/11	Temperature (DEGREES C)	11.1		DEGREES C
MW38D	6/14/11	Water Elevation (FT/MSL)	733.79		FT/MSL

Appendix E
Tri-County Landfill
Private Well Analytical Data

Well ID	Sample Date	Parameter	Result	Reporting Limit	Qualifier	Units	MCL	Class I ILGWQS
PW07	6/17/2011	Alkalinity, Total	1120	10.0		MG/L		
PW07	**6/17/2011**	**Chloride**	**925**	**2.8**		**MG/L**		**200**
PW07	6/17/2011	Nitrate	0.5	0.5	U	MG/L AS N	10	10
PW07	6/17/2011	Nitrite	0.5	0.5	U	MG/L AS N	1	
PW07	6/17/2011	Sulfate	1	1.0	U	MG/L		400
PW07	6/17/2011	Sulfide	1000	1000	U	UG/L		
PW07	**6/17/2011**	**Total Dissolved Solids**	**2640**	**16.0**		**MG/L**		**1200**
PW07	6/17/2011	Total Organic Carbon	57.3	1.0		MG/L		
PW07	6/17/2011	Total Suspended Solids	31.6	4.0		MG/L		
PW07	6/17/2011	Aluminum	0.06	0.060	U	MG/L		
PW07	6/17/2011	Antimony	0.007	0.0070	U	MG/L	6	6
PW07	*6/17/2011*	*Arsenic*	*0.01*	*0.010*		*MG/L*	*0.01*	*0.05*
PW07	6/17/2011	Barium	0.77	0.0050		MG/L	2	2
PW07	6/17/2011	Beryllium	0.001	0.0010	U	MG/L	0.004	0.004
PW07	6/17/2011	Cadmium	0.001	0.0010	U	MG/L	0.005	0.005
PW07	6/17/2011	Calcium	70.5	0.10		MG/L		
PW07	6/17/2011	Chromium	0.003	0.0030	U	MG/L	0.1	0.1
PW07	6/17/2011	Cobalt	0.0059	0.0030		MG/L		1
PW07	6/17/2011	Copper	0.004	0.0040	U	MG/L	1.3	0.65
PW07	**6/17/2011**	**Iron**	**16.8**	**0.060**		**MG/L**		**5**
PW07	6/17/2011	Lead	0.0064	0.0050		MG/L	0.015	0.0075
PW07	6/17/2011	Magnesium	286	0.050		MG/L		
PW07	6/17/2011	Manganese	0.12	0.0010		MG/L		0.15
PW07	6/17/2011	Mercury	0.0002	0.00020	U	MG/L	0.002	0.002
PW07	6/17/2011	Nickel	0.08	0.0040		MG/L		0.1
PW07	6/17/2011	Potassium	23.6	0.20		MG/L		
PW07	6/17/2011	Selenium	0.01	0.010	U	MG/L	0.05	0.05
PW07	6/17/2011	Silver	0.004	0.0040	U	MG/L		0.05
PW07	6/17/2011	Sodium	464	1.0		MG/L		
PW07	6/17/2011	Thallium	0.002	0.0020	U	MG/L	0.002	0.002
PW07	6/17/2011	Total Cyanide	0.02	0.020	U	MG/L	200	200
PW07	6/17/2011	Vanadium	0.003	0.0030	U	MG/L		
PW07	6/17/2011	Zinc	3.2	0.0050		MG/L		5
PW07	6/17/2011	1,1,1-Trichloroethane	1	1.0	U	UG/L	200	200
PW07	6/17/2011	1,1,2,2-Tetrachloroethane	1	1.0	U	UG/L		
PW07	6/17/2011	1,1,2-Trichloroethane	1	1.0	U	UG/L	5	5
PW07	6/17/2011	1,1-Dichloroethane	1	1.0	U	UG/L		
PW07	6/17/2011	1,1-Dichloroethene	1	1.0	U	UG/L	7	7
PW07	6/17/2011	1,2-Dichloroethane	1	1.0	U	UG/L	5	5

Appendix E
Tri-County Landfill
Private Well Analytical Data

Well ID	Sample Date	Parameter	Result	Reporting Limit	Qualifier	Units	MCL	Class I ILGWQS
PW07	6/17/2011	1,2-Dichloropropane	1	1.0	U	UG/L	5	5
PW07	6/17/2011	2-Hexanone	10	10	U	UG/L		
PW07	6/17/2011	Acetone	12	10		UG/L		
PW07	6/17/2011	Benzene	1	1.0	U	UG/L	5	5
PW07	6/17/2011	Bromodichloromethane	1	1.0	U	UG/L		
PW07	6/17/2011	Bromoform	1	1.0	U	UG/L		
PW07	6/17/2011	Bromomethane	1	1.0	U	UG/L		
PW07	6/17/2011	Carbon disulfide	5	5.0	U	UG/L		
PW07	6/17/2011	Carbon tetrachloride	1	1.0	U	UG/L	5	5
PW07	6/17/2011	Chlorobenzene	1	1.0	U	UG/L	100	100
PW07	6/17/2011	Chloroethane	1	1.0	U	UG/L		
PW07	6/17/2011	Chloroform	1	1.0	U	UG/L		
PW07	6/17/2011	Chloromethane	1	1.0	U	UG/L		
PW07	6/17/2011	cis-1,2-Dichloroethene	1	1.0	U	UG/L	70	70
PW07	6/17/2011	cis-1,3-Dichloropropene	1	1.0	U	UG/L		
PW07	6/17/2011	Dibromochloromethane	1	1.0	U	UG/L		
PW07	6/17/2011	Ethylbenzene	1	1.0	U	UG/L	700	700
PW07	6/17/2011	Ketone, ethyl methyl	10	10	U	UG/L		
PW07	6/17/2011	methyl isobutyl ketone	10	10	U	UG/L		
PW07	6/17/2011	Methylene Chloride	2	2.0	U	UG/L	5	5
PW07	6/17/2011	Styrene	1	1.0	U	UG/L	100	100
PW07	6/17/2011	Tetrachloroethene	1	1.0	U	UG/L	5	5
PW07	6/17/2011	Toluene	1	1.0	U	UG/L	1000	1000
PW07	6/17/2011	trans-1,2-Dichloroethene	1	1.0	U	UG/L	100	100
PW07	6/17/2011	trans-1,3-Dichloropropene	1	1.0	U	UG/L		
PW07	6/17/2011	Trichloroethene	1	1.0	U	UG/L	5	5
PW07	6/17/2011	Vinyl chloride	1	1.0	U	UG/L	2	2
PW07	6/17/2011	Xylenes, Total	4.2	3.0		UG/L	10000	10000
PW09	6/17/2011	Alkalinity, Total	397	10.0		MG/L		
PW09	6/17/2011	Chloride	102	1.0		MG/L		200
PW09	6/17/2011	Nitrate	0.5	0.5	U	MG/L AS N	10	10
PW09	6/17/2011	Nitrite	0.5	0.5	U	MG/L AS N	1	
PW09	6/17/2011	Sulfate	14.3	1.0		MG/L		400
PW09	6/17/2011	Sulfide	1000	1000	U	UG/L		
PW09	6/17/2011	Total Dissolved Solids	594	10.0		MG/L		1200
PW09	6/17/2011	Total Organic Carbon	4.1	1.0		MG/L		
PW09	6/17/2011	Total Suspended Solids	4	4.0	U	MG/L		
PW09	6/17/2011	Aluminum	0.06	0.060	U	MG/L		
PW09	6/17/2011	Antimony	0.007	0.0070	U	MG/L	6	6

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Tri-County Landfill
Private Well Analytical Data

Well ID	Sample Date	Parameter	Result	Reporting Limit	Qualifier	Units	MCL	Class I ILGWQS
PW09	6/17/2011	Arsenic	0.01	0.010	U	MG/L	0.01	0.05
PW09	6/17/2011	Barium	0.15	0.0050		MG/L	2	2
PW09	6/17/2011	Beryllium	0.001	0.0010	U	MG/L	0.004	0.004
PW09	6/17/2011	Cadmium	0.001	0.0010	U	MG/L	0.005	0.005
PW09	6/17/2011	Calcium	88.2	0.10		MG/L		
PW09	6/17/2011	Chromium	0.003	0.0030	U	MG/L	0.1	0.1
PW09	6/17/2011	Cobalt	0.003	0.0030	U	MG/L		1
PW09	6/17/2011	Copper	0.004	0.0040	U	MG/L	1.3	0.65
PW09	6/17/2011	Iron	0.73	0.060		MG/L		5
PW09	6/17/2011	Lead	0.005	0.0050	U	MG/L	0.015	0.0075
PW09	6/17/2011	Magnesium	66.4	0.050		MG/L		
PW09	6/17/2011	Manganese	0.0069	0.0010		MG/L		0.15
PW09	6/17/2011	Mercury	0.0002	0.00020	U	MG/L	0.002	0.002
PW09	6/17/2011	Nickel	0.0049	0.0040		MG/L		0.1
PW09	6/17/2011	Potassium	2.3	0.20		MG/L		
PW09	6/17/2011	Selenium	0.01	0.010	U	MG/L	0.05	0.05
PW09	6/17/2011	Silver	0.004	0.0040	U	MG/L		0.05
PW09	6/17/2011	Sodium	35.5	1.0		MG/L		
PW09	6/17/2011	Thallium	0.002	0.0020	U	MG/L	0.002	0.002
PW09	6/17/2011	Total Cyanide	0.02	0.020	U	MG/L	200	200
PW09	6/17/2011	Vanadium	0.003	0.0030	U	MG/L		
PW09	6/17/2011	Zinc	0.03	0.0050		MG/L		5
PW09	6/17/2011	1,1,1-Trichloroethane	1	1.0	U	UG/L	200	200
PW09	6/17/2011	1,1,2,2-Tetrachloroethane	1	1.0	U	UG/L		
PW09	6/17/2011	1,1,2-Trichloroethane	1	1.0	U	UG/L	5	5
PW09	6/17/2011	1,1-Dichloroethane	1	1.0	U	UG/L		
PW09	6/17/2011	1,1-Dichloroethene	1	1.0	U	UG/L	7	7
PW09	6/17/2011	1,2-Dichloroethane	1	1.0	U	UG/L	5	5
PW09	6/17/2011	1,2-Dichloropropane	1	1.0	U	UG/L	5	5
PW09	6/17/2011	2-Hexanone	10	10	U	UG/L		
PW09	6/17/2011	Acetone	10	10	U	UG/L		
PW09	6/17/2011	Benzene	1	1.0	U	UG/L	5	5
PW09	6/17/2011	Bromodichloromethane	1	1.0	U	UG/L		
PW09	6/17/2011	Bromoform	1	1.0	U	UG/L		
PW09	6/17/2011	Bromomethane	1	1.0	U	UG/L		
PW09	6/17/2011	Carbon disulfide	5	5.0	U	UG/L		
PW09	6/17/2011	Carbon tetrachloride	1	1.0	U	UG/L	5	5
PW09	6/17/2011	Chlorobenzene	1	1.0	U	UG/L	100	100
PW09	6/17/2011	Chloroethane	1	1.0	U	UG/L		

Appendix E
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Private Well Analytical Data

Well ID	Sample Date	Parameter	Result	Reporting Limit	Qualifier	Units	MCL	Class I ILGWQS
PW09	6/17/2011	Chloroform	1	1.0	U	UG/L		
PW09	6/17/2011	Chloromethane	1	1.0	U	UG/L		
PW09	6/17/2011	cis-1,2-Dichloroethene	1	1.0	U	UG/L	70	70
PW09	6/17/2011	cis-1,3-Dichloropropene	1	1.0	U	UG/L		
PW09	6/17/2011	Dibromochloromethane	1	1.0	U	UG/L		
PW09	6/17/2011	Ethylbenzene	1	1.0	U	UG/L	700	700
PW09	6/17/2011	Ketone, ethyl methyl	10	10	U	UG/L		
PW09	6/17/2011	methyl isobutyl ketone	10	10	U	UG/L		
PW09	6/17/2011	Methylene Chloride	2	2.0	U	UG/L	5	5
PW09	6/17/2011	Styrene	1	1.0	U	UG/L	100	100
PW09	6/17/2011	Tetrachloroethene	1	1.0	U	UG/L	5	5
PW09	6/17/2011	Toluene	1	1.0	U	UG/L	1000	1000
PW09	6/17/2011	trans-1,2-Dichloroethene	1	1.0	U	UG/L	100	100
PW09	6/17/2011	trans-1,3-Dichloropropene	1	1.0	U	UG/L		
PW09	6/17/2011	Trichloroethene	1	1.0	U	UG/L	5	5
PW09	6/17/2011	Vinyl chloride	1	1.0	U	UG/L	2	2
PW09	6/17/2011	Xylenes, Total	3	3.0	U	UG/L	10000	10000
PW23	6/17/2011	Alkalinity, Total	595	10.0		MG/L		
PW23	**6/17/2011**	**Chloride**	**279**	**1.4**		**MG/L**		**200**
PW23	6/17/2011	Nitrate	0.5	0.5	U	MG/L AS N	10	10
PW23	6/17/2011	Nitrite	0.5	0.5	U	MG/L AS N	1	
PW23	6/17/2011	Sulfate	1	1.0	U	MG/L		400
PW23	6/17/2011	Sulfide	1000	1000	U	UG/L		
PW23	6/17/2011	Total Dissolved Solids	1080	10.0		MG/L		1200
PW23	6/17/2011	Total Organic Carbon	15.3	1.0		MG/L		
PW23	6/17/2011	Total Suspended Solids	4	4.0	U	MG/L		
PW23	6/17/2011	Aluminum	0.06	0.060	U	MG/L		
PW23	6/17/2011	Antimony	0.007	0.0070	U	MG/L	6	6
PW23	6/17/2011	Arsenic	0.01	0.010	U	MG/L	0.01	0.05
PW23	6/17/2011	Barium	0.34	0.0050		MG/L	2	2
PW23	6/17/2011	Beryllium	0.001	0.0010	U	MG/L	0.004	0.004
PW23	6/17/2011	Cadmium	0.001	0.0010	U	MG/L	0.005	0.005
PW23	6/17/2011	Calcium	129	0.10		MG/L		
PW23	6/17/2011	Chromium	0.003	0.0030	U	MG/L	0.1	0.1
PW23	6/17/2011	Cobalt	0.003	0.0030	U	MG/L		1
PW23	6/17/2011	Copper	0.004	0.0040	U	MG/L	1.3	0.65
PW23	6/17/2011	Iron	3.3	0.060		MG/L		5
PW23	6/17/2011	Lead	0.005	0.0050	U	MG/L	0.015	0.0075
PW23	6/17/2011	Magnesium	95.2	0.050		MG/L		

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Tri-County Landfill
Private Well Analytical Data

Well ID	Sample Date	Parameter	Result	Reporting Limit	Qualifier	Units	MCL	Class I ILGWQS
PW23	**6/17/2011**	**Manganese**	**0.89**	**0.0010**		**MG/L**		**0.15**
PW23	6/17/2011	Mercury	0.0002	0.00020	U	MG/L	0.002	0.002
PW23	6/17/2011	Nickel	0.021	0.0040		MG/L		0.1
PW23	6/17/2011	Potassium	4.9	0.20		MG/L		
PW23	6/17/2011	Selenium	0.01	0.010	U	MG/L	0.05	0.05
PW23	6/17/2011	Silver	0.004	0.0040	U	MG/L		0.05
PW23	6/17/2011	Sodium	122	1.0		MG/L		
PW23	6/17/2011	Thallium	0.002	0.0020	U	MG/L	0.002	0.002
PW23	6/17/2011	Total Cyanide	0.02	0.020	U	MG/L	200	200
PW23	6/17/2011	Vanadium	0.003	0.0030	U	MG/L		
PW23	6/17/2011	Zinc	0.005	0.0050	U	MG/L		5
PW23	6/17/2011	1,1,1-Trichloroethane	1	1.0	U	UG/L	200	200
PW23	6/17/2011	1,1,2,2-Tetrachloroethane	1	1.0	U	UG/L		
PW23	6/17/2011	1,1,2-Trichloroethane	1	1.0	U	UG/L	5	5
PW23	6/17/2011	1,1-Dichloroethane	1	1.0	U	UG/L		
PW23	6/17/2011	1,1-Dichloroethene	1	1.0	U	UG/L	7	7
PW23	6/17/2011	1,2-Dichloroethane	1	1.0	U	UG/L	5	5
PW23	6/17/2011	1,2-Dichloropropane	1	1.0	U	UG/L	5	5
PW23	6/17/2011	2-Hexanone	10	10	U	UG/L		
PW23	6/17/2011	Acetone	10	10	U	UG/L		
PW23	6/17/2011	Benzene	1	1.0	U	UG/L	5	5
PW23	6/17/2011	Bromodichloromethane	1	1.0	U	UG/L		
PW23	6/17/2011	Bromoform	1	1.0	U	UG/L		
PW23	6/17/2011	Bromomethane	1	1.0	U	UG/L		
PW23	6/17/2011	Carbon disulfide	5	5.0	U	UG/L		
PW23	6/17/2011	Carbon tetrachloride	1	1.0	U	UG/L	5	5
PW23	6/17/2011	Chlorobenzene	1	1.0	U	UG/L	100	100
PW23	6/17/2011	Chloroethane	1	1.0	U	UG/L		
PW23	6/17/2011	Chloroform	1	1.0	U	UG/L		
PW23	6/17/2011	Chloromethane	1	1.0	U	UG/L		
PW23	6/17/2011	cis-1,2-Dichloroethene	1	1.0	U	UG/L	70	70
PW23	6/17/2011	cis-1,3-Dichloropropene	1	1.0	U	UG/L		
PW23	6/17/2011	Dibromochloromethane	1	1.0	U	UG/L		
PW23	6/17/2011	Ethylbenzene	1	1.0	U	UG/L	700	700
PW23	6/17/2011	Ketone, ethyl methyl	10	10	U	UG/L		
PW23	6/17/2011	methyl isobutyl ketone	10	10	U	UG/L		
PW23	6/17/2011	Methylene Chloride	2	2.0	U	UG/L	5	5
PW23	6/17/2011	Styrene	1	1.0	U	UG/L	100	100
PW23	6/17/2011	Tetrachloroethene	1	1.0	U	UG/L	5	5

Appendix E
Tri-County Landfill
Private Well Analytical Data

Well ID	Sample Date	Parameter	Result	Reporting Limit	Qualifier	Units	MCL	Class I ILGWQS
PW23	6/17/2011	Toluene	1	1.0	U	UG/L	1000	1000
PW23	6/17/2011	trans-1,2-Dichloroethene	1	1.0	U	UG/L	100	100
PW23	6/17/2011	trans-1,3-Dichloropropene	1	1.0	U	UG/L		
PW23	6/17/2011	Trichloroethene	1	1.0	U	UG/L	5	5
PW23	6/17/2011	Vinyl chloride	1	1.0	U	UG/L	2	2
PW23	6/17/2011	Xylenes, Total	3	3.0	U	UG/L	10000	10000

Notes:
Chloride and metals concentrations are total.
MCL = US EPA Maximum Contaminant Level.
ILGWQS = Illinois Class I Groundwater Quality Standard.
Laboratory analyses performed by TestAmerica Buffalo.
Nitrate and nitrite analysis performed by Environmental Monitoring Technologies, Inc.

Bold indicates exceedance of ILGWQS.

Italics indicates exceedance of MCL.

Bold and italics indicates exceedance of both the MCL and ILGWQS.

Qualifiers:
U = Indicates compound/element was analyzed for, but not detected.

Appendix E
Tri-County Landfill
Private Wells Field Data

Well ID	Sample Date	Parameter	Result	Qualifier	Units
PW07	6/17/2011	pH, Field	6.99		SU
PW07	6/17/2011	Turbidity	1.62		NTU
PW07	6/17/2011	Ferrous Iron	0		MG/L
PW07	6/17/2011	Temperature, Field (°F)	78.3		DEGREES F
PW07	6/17/2011	Field EH/ORP	-126.6		MILLIVOLTS
PW07	6/17/2011	Specific Conductance, Field	4038		UMHOS/CM
PW07	6/17/2011	Dissolved Oxygen, Field	4		MG/L
PW09	6/17/2011	Dissolved Oxygen, Field	4.25		MG/L
PW09	6/17/2011	Ferrous Iron	0		MG/L
PW09	6/17/2011	Field EH/ORP	-52		MILLIVOLTS
PW09	6/17/2011	pH, Field	7.88		SU
PW09	6/17/2011	Specific Conductance, Field	976		UMHOS/CM
PW09	6/17/2011	Temperature, Field (°F)	63.9		DEGREES F
PW09	6/17/2011	Turbidity	6.89		NTU
PW23	6/17/2011	Turbidity	1.12		NTU
PW23	6/17/2011	Field EH/ORP	-115		MILLIVOLTS
PW23	6/17/2011	Specific Conductance, Field	1616		UMHOS/CM
PW23	6/17/2011	Ferrous Iron	0.18		MG/L
PW23	6/17/2011	Temperature, Field (°F)	64.8		DEGREES F
PW23	6/17/2011	Dissolved Oxygen, Field	2.4		MG/L
PW23	6/17/2011	pH, Field	7.22		SU

Appendix E
Tri-County Landfill
Quality Control Analytical Data

Well ID	Sample Date	Parameter	Result	Reporting Limit	Qualifier	Units	MCL	Class I ILGWQS
DUP1@G142	6/14/2011	Chloride	46.7	1.0		MG/L		200
DUP1@G142	6/14/2011	Sulfate	1	1.0	U	MG/L		400
DUP1@G142	6/14/2011	Alkalinity, Total	869	10.0		MG/L		
DUP1@G142	**6/14/2011**	**Total Dissolved Solids**	**1570**	**10.0**		**MG/L**		**1200**
DUP1@G142	6/14/2011	Total Suspended Solids	4	4.0	U	MG/L		
DUP1@G142	6/14/2011	Sulfide	3000	1000		UG/L		
DUP1@G142	6/14/2011	Total Organic Carbon	4	1.0		MG/L		
DUP1@G142	6/14/2011	Nickel	0.033	0.0040		MG/L		0.1
DUP1@G142	6/14/2011	Potassium	23.6	0.20		MG/L		
DUP1@G142	6/14/2011	Selenium	0.01	0.010	U	MG/L	0.05	0.05
DUP1@G142	6/14/2011	Silver	0.004	0.0040	U	MG/L		0.05
DUP1@G142	6/14/2011	Sodium	323	1.0		MG/L		
DUP1@G142	6/14/2011	Manganese	0.02	0.0010		MG/L		0.15
DUP1@G142	6/14/2011	Mercury	0.0002	0.00020	U	MG/L	0.002	0.002
DUP1@G142	6/14/2011	Vanadium	0.003	0.0030	U	MG/L		
DUP1@G142	6/14/2011	Zinc	0.02	0.0050		MG/L		5
DUP1@G142	6/14/2011	Aluminum	0.081	0.060		MG/L		
DUP1@G142	6/14/2011	Thallium	0.002	0.0020	U	MG/L	0.002	0.002
DUP1@G142	6/14/2011	Total Cyanide	0.02	0.020	U	MG/L	200	200
DUP1@G142	6/14/2011	Magnesium	119	0.050		MG/L		
DUP1@G142	6/14/2011	Antimony	0.007	0.0070	U	MG/L	6	6
DUP1@G142	6/14/2011	Arsenic	0.01	0.010	U	MG/L	0.01	0.05
DUP1@G142	6/14/2011	Barium	0.62	0.0050		MG/L	2	2
DUP1@G142	6/14/2011	Beryllium	0.001	0.0010	U	MG/L	0.004	0.004
DUP1@G142	6/14/2011	Cadmium	0.001	0.0010	U	MG/L	0.005	0.005
DUP1@G142	6/14/2011	Calcium	103	0.10		MG/L		
DUP1@G142	6/14/2011	Chromium	0.003	0.0030	U	MG/L	0.1	0.1
DUP1@G142	6/14/2011	Cobalt	0.0039	0.0030		MG/L		1
DUP1@G142	6/14/2011	Copper	0.004	0.0040	U	MG/L	1.3	0.65
DUP1@G142	6/14/2011	Iron	4.9	0.060		MG/L		5
DUP1@G142	6/14/2011	Lead	0.005	0.0050	U	MG/L	0.015	0.008
DUP1@G142	6/14/2011	Trichloroethene	1	1.0	U	UG/L	5	5
DUP1@G142	6/14/2011	Dibromochloromethane	1	1.0	U	UG/L		
DUP1@G142	6/14/2011	Ethylbenzene	1	1.0	U	UG/L	700	700
DUP1@G142	6/14/2011	Ketone, ethyl methyl	10	10	U	UG/L		
DUP1@G142	6/14/2011	methyl isobutyl ketone	10	10	U	UG/L		
DUP1@G142	6/14/2011	Methylene Chloride	2	2.0	U	UG/L	5	5
DUP1@G142	6/14/2011	Styrene	1	1.0	U	UG/L	100	100
DUP1@G142	6/14/2011	Tetrachloroethene	1	1.0	U	UG/L	5	5

Appendix E
Tri-County Landfill
Quality Control Analytical Data

Well ID	Sample Date	Parameter	Result	Reporting Limit	Qualifier	Units	MCL	Class I ILGWQS
DUP1@G142	6/14/2011	Toluene	1	1.0	U	UG/L	1000	1000
DUP1@G142	6/14/2011	Xylenes, Total	3	3.0	U	UG/L	10000	10000
DUP1@G142	6/14/2011	trans-1,3-Dichloropropene	1	1.0	U	UG/L		
DUP1@G142	6/14/2011	cis-1,3-Dichloropropene	1	1.0	U	UG/L		
DUP1@G142	6/14/2011	Vinyl chloride	1	1.0	U	UG/L	2	2
DUP1@G142	6/14/2011	Chloroethane	1	1.0	U	UG/L		
DUP1@G142	6/14/2011	trans-1,2-Dichloroethene	1	1.0	U	UG/L	100	100
DUP1@G142	6/14/2011	Bromodichloromethane	1	1.0	U	UG/L		
DUP1@G142	6/14/2011	1,1,2,2-Tetrachloroethane	1	1.0	U	UG/L		
DUP1@G142	6/14/2011	1,1,2-Trichloroethane	1	1.0	U	UG/L	5	5
DUP1@G142	6/14/2011	1,1-Dichloroethane	1	1.0	U	UG/L		
DUP1@G142	6/14/2011	1,1-Dichloroethene	1	1.0	U	UG/L	7	7
DUP1@G142	6/14/2011	1,2-Dichloroethane	1	1.0	U	UG/L	5	5
DUP1@G142	6/14/2011	1,2-Dichloropropane	1	1.0	U	UG/L	5	5
DUP1@G142	6/14/2011	2-Hexanone	10	10	U	UG/L		
DUP1@G142	6/14/2011	cis-1,2-Dichloroethene	1	1.0	U	UG/L	70	70
DUP1@G142	6/14/2011	Benzene	1	1.0	U	UG/L	5	5
DUP1@G142	6/14/2011	1,1,1-Trichloroethane	1	1.0	U	UG/L	200	200
DUP1@G142	6/14/2011	Bromoform	1	1.0	U	UG/L		
DUP1@G142	6/14/2011	Bromomethane	1	1.0	U	UG/L		
DUP1@G142	6/14/2011	Carbon disulfide	5	5.0	U	UG/L		
DUP1@G142	6/14/2011	Carbon tetrachloride	1	1.0	U	UG/L	5	5
DUP1@G142	6/14/2011	Chlorobenzene	1	1.0	U	UG/L	100	100
DUP1@G142	6/14/2011	Chloroform	1	1.0	U	UG/L		
DUP1@G142	6/14/2011	Chloromethane	1	1.0	U	UG/L		
DUP1@G142	6/14/2011	Acetone	11	10		UG/L		
DUP1@MW2SR	6/23/2011	Nitrate	6.92	0.5		MG/L AS N	10	10
DUP1@MW2SR	6/23/2011	Nitrite	0.5	0.5	U	MG/L AS N	1	
DUP1@MW6S	6/20/2011	Total Dissolved Solids	790	10.0		MG/L		1200
DUP1@MW6S	6/20/2011	Alkalinity, Total	513	10.0		MG/L		
DUP1@MW6S	6/20/2011	Total Suspended Solids	18	4.0		MG/L		
DUP1@MW6S	6/20/2011	Sulfide	1000	1000	U	UG/L		
DUP1@MW6S	6/20/2011	Total Organic Carbon	8.4	1.0		MG/L		
DUP1@MW6S	6/20/2011	Sulfate	129	1.7		MG/L		400
DUP1@MW6S	6/20/2011	Nitrite	0.5	0.5	U	MG/L AS N	1	
DUP1@MW6S	6/20/2011	Nitrate	0.5	0.5	U	MG/L AS N	10	10
DUP1@MW6S	6/20/2011	Chloride	118	2.8		MG/L		200
DUP1@MW6S	6/20/2011	Total Cyanide	0.02	0.020	U	MG/L	200	200
DUP1@MW6S	6/20/2011	Nickel	0.004	0.0040	U	MG/L		0.1

Appendix E
Tri-County Landfill
Quality Control Analytical Data

Well ID	Sample Date	Parameter	Result	Reporting Limit	Qualifier	Units	MCL	Class I ILGWQS
DUP1@MW6S	6/20/2011	Thallium	0.002	0.0020	U	MG/L	0.002	0.002
DUP1@MW6S	6/20/2011	Zinc	0.005	0.0050	U	MG/L		5
DUP1@MW6S	6/20/2011	Vanadium	0.003	0.0030	U	MG/L		
DUP1@MW6S	6/20/2011	Sodium	67.5	1.0		MG/L		
DUP1@MW6S	6/20/2011	Silver	0.004	0.0040	U	MG/L		0.05
DUP1@MW6S	6/20/2011	Selenium	0.01	0.010	U	MG/L	0.05	0.05
DUP1@MW6S	6/20/2011	Potassium	11.7	0.20		MG/L		
DUP1@MW6S	6/20/2011	Mercury	0.0002	0.00020	U	MG/L	0.002	0.002
DUP1@MW6S	6/20/2011	Barium	0.16	0.0050		MG/L	2	2
DUP1@MW6S	**6/20/2011**	**Manganese**	**0.58**	**0.0010**		**MG/L**		**0.15**
DUP1@MW6S	6/20/2011	Antimony	0.007	0.0070	U	MG/L	6	6
DUP1@MW6S	6/20/2011	Aluminum	0.06	0.060	U	MG/L		
DUP1@MW6S	*6/20/2011*	*Arsenic*	*0.01*	*0.010*		*MG/L*	*0.01*	*0.05*
DUP1@MW6S	6/20/2011	Beryllium	0.001	0.0010	U	MG/L	0.004	0.004
DUP1@MW6S	6/20/2011	Cadmium	0.001	0.0010	U	MG/L	0.005	0.005
DUP1@MW6S	**6/20/2011**	**Iron**	**12.3**	**0.060**		**MG/L**		**5**
DUP1@MW6S	6/20/2011	Chromium	0.003	0.0030	U	MG/L	0.1	0.1
DUP1@MW6S	6/20/2011	Cobalt	0.003	0.0030	U	MG/L		1
DUP1@MW6S	6/20/2011	Copper	0.004	0.0040	U	MG/L	1.3	0.65
DUP1@MW6S	6/20/2011	Calcium	127	0.10		MG/L		
DUP1@MW6S	6/20/2011	Magnesium	52.6	0.050		MG/L		
DUP1@MW6S	6/20/2011	Lead	0.005	0.0050	U	MG/L	0.015	0.008
DUP1@MW6S	6/20/2011	Bis(2-chloroethyl)ether	10	10	U	UG/L		
DUP1@MW6S	6/20/2011	Bis(2-ethylhexyl) phthalate	10	10	U	UG/L	6	6
DUP1@MW6S	6/20/2011	Butyl benzyl phthalate	10	10	U	UG/L		
DUP1@MW6S	6/20/2011	Carbazole	10	10	U	UG/L		
DUP1@MW6S	6/20/2011	Cresol, o-	10	10	U	UG/L		
DUP1@MW6S	6/20/2011	Chrysene	10	10	U	UG/L		
DUP1@MW6S	6/20/2011	Bis(2-chloroethoxy)methane	10	10	U	UG/L		
DUP1@MW6S	6/20/2011	4-Nitroaniline	50	50	U	UG/L		
DUP1@MW6S	6/20/2011	Cresol, p-	10	10	U	UG/L		
DUP1@MW6S	6/20/2011	Chloro-m-cresol, p-	10	10	U	UG/L		
DUP1@MW6S	6/20/2011	Benzo(k)fluoranthene	10	10	U	UG/L		
DUP1@MW6S	6/20/2011	Benzo(ghi)perylene	10	10	U	UG/L		
DUP1@MW6S	6/20/2011	Benzo(b)fluoranthene	10	10	U	UG/L		
DUP1@MW6S	6/20/2011	Benzo(a)pyrene	10	10	U	UG/L	0.2	0.2
DUP1@MW6S	6/20/2011	Benzo(a)anthracene	10	10	U	UG/L		
DUP1@MW6S	6/20/2011	Dibenzo(a,h)anthracene	10	10	U	UG/L		
DUP1@MW6S	6/20/2011	4-Nitrophenol	50	50	U	UG/L		

Appendix E
Tri-County Landfill
Quality Control Analytical Data

Well ID	Sample Date	Parameter	Result	Reporting Limit	Qualifier	Units	MCL	Class I ILGWQS
DUP1@MW6S	6/20/2011	Hexachlorobenzene	10	10	U	UG/L	1	
DUP1@MW6S	6/20/2011	4-Chlorophenyl phenyl ether	10	10	U	UG/L		
DUP1@MW6S	6/20/2011	4-Chloroaniline	10	10	U	UG/L		
DUP1@MW6S	6/20/2011	4-Bromophenyl phenyl ether	10	10	U	UG/L		
DUP1@MW6S	6/20/2011	3-Nitroaniline	50	50	U	UG/L		
DUP1@MW6S	6/20/2011	Acenaphthylene	10	10	U	UG/L		
DUP1@MW6S	6/20/2011	Isophorone	10	10	U	UG/L		
DUP1@MW6S	6/20/2011	Pyrene	10	10	U	UG/L		
DUP1@MW6S	6/20/2011	3,3'-Dichlorobenzidine	10	10	U	UG/L		
DUP1@MW6S	6/20/2011	Acenaphthene	10	10	U	UG/L		
DUP1@MW6S	6/20/2011	Phenol	10	10	U	UG/L		100
DUP1@MW6S	6/20/2011	Phenanthrene	10	10	U	UG/L		
DUP1@MW6S	6/20/2011	Pentachlorophenol	50	50	U	UG/L	1	1
DUP1@MW6S	6/20/2011	o-Cresol, 4,6-dinitro-	50	50	U	UG/L		
DUP1@MW6S	6/20/2011	N-Nitrosodiphenylamine	10	10	U	UG/L		
DUP1@MW6S	6/20/2011	N-Nitrosodi-n-propylamine	10	10	U	UG/L		
DUP1@MW6S	6/20/2011	Fluoranthene	10	10	U	UG/L		
DUP1@MW6S	6/20/2011	Naphthalene	10	10	U	UG/L		
DUP1@MW6S	6/20/2011	Dibenzofuran	10	10	U	UG/L		
DUP1@MW6S	6/20/2011	Indeno(1,2,3-cd)pyrene	10	10	U	UG/L		
DUP1@MW6S	6/20/2011	Hexachloroethane	10	10	U	UG/L		
DUP1@MW6S	6/20/2011	Hexachlorocyclopentadiene	24	24	U	UG/L	50	50
DUP1@MW6S	6/20/2011	Hexachlorobutadiene	40	40	U	UG/L		
DUP1@MW6S	6/20/2011	Fluorene	10	10	U	UG/L		
DUP1@MW6S	6/20/2011	Di-n-octyl phthalate	10	10	U	UG/L		
DUP1@MW6S	6/20/2011	Di-n-butyl phthalate	10	10	U	UG/L		
DUP1@MW6S	6/20/2011	Dimethyl phthalate	10	10	U	UG/L		
DUP1@MW6S	6/20/2011	Diethyl phthalate	10	10	U	UG/L		
DUP1@MW6S	6/20/2011	Nitrobenzene	10	10	U	UG/L		
DUP1@MW6S	6/20/2011	1,3-Dichlorobenzene	10	10	U	UG/L		
DUP1@MW6S	6/20/2011	1,2-Dichlorobenzene	10	10	U	UG/L	600	600
DUP1@MW6S	6/20/2011	1,4-Dichlorobenzene	10	10	U	UG/L	75	75
DUP1@MW6S	6/20/2011	2,2'-Oxybis(1-chloropropane)	10	10	U ^	UG/L		
DUP1@MW6S	6/20/2011	2,4,5-Trichlorophenol	50	50	U	UG/L		
DUP1@MW6S	6/20/2011	2,4,6-Trichlorophenol	10	10	U	UG/L		
DUP1@MW6S	6/20/2011	2,4-Dichlorophenol	10	10	U	UG/L		
DUP1@MW6S	6/20/2011	2-Nitrophenol	10	10	U	UG/L		
DUP1@MW6S	6/20/2011	2,4-Dimethylphenol	10	10	U	UG/L		
DUP1@MW6S	6/20/2011	2-Nitroaniline	50	50	U	UG/L		

Appendix E
Tri-County Landfill
Quality Control Analytical Data

Well ID	Sample Date	Parameter	Result	Reporting Limit	Qualifier	Units	MCL	Class I ILGWQS
DUP1@MW6S	6/20/2011	2,4-Dinitrophenol	50	50	U	UG/L		
DUP1@MW6S	6/20/2011	2,4-Dinitrotoluene	10	10	U	UG/L		
DUP1@MW6S	6/20/2011	2,6-Dinitrotoluene	10	10	U	UG/L		
DUP1@MW6S	6/20/2011	2-Chloronaphthalene	10	10	U	UG/L		
DUP1@MW6S	6/20/2011	2-Chlorophenol	10	10	U	UG/L		
DUP1@MW6S	6/20/2011	2-Methylnaphthalene	10	10	U	UG/L		
DUP1@MW6S	6/20/2011	1,2,4-Trichlorobenzene	10	10	U	UG/L	70	70
DUP1@MW6S	6/20/2011	Anthracene	10	10	U	UG/L		
DUP1@MW6S	6/20/2011	Bromomethane	1	1.0	U	UG/L		
DUP1@MW6S	6/20/2011	Carbon disulfide	5	5.0	U	UG/L		
DUP1@MW6S	6/20/2011	Carbon tetrachloride	1	1.0	U	UG/L	5	5
DUP1@MW6S	6/20/2011	Chlorobenzene	1	1.0	U	UG/L	100	100
DUP1@MW6S	6/20/2011	Bromodichloromethane	1	1.0	U	UG/L		
DUP1@MW6S	6/20/2011	Chloroform	1	1.0	U	UG/L		
DUP1@MW6S	6/20/2011	1,1-Dichloroethene	1	1.0	U	UG/L	7	7
DUP1@MW6S	6/20/2011	Chloroethane	2	1.0		UG/L		
DUP1@MW6S	6/20/2011	Acetone	10	10	U	UG/L		
DUP1@MW6S	6/20/2011	2-Hexanone	10	10	U	UG/L		
DUP1@MW6S	6/20/2011	1,2-Dichloropropane	1	1.0	U	UG/L	5	5
DUP1@MW6S	6/20/2011	1,1-Dichloroethane	1	1.0	U	UG/L		
DUP1@MW6S	6/20/2011	1,2-Dichloroethane	1	1.0	U	UG/L	5	5
DUP1@MW6S	6/20/2011	Chloromethane	1	1.0	U	UG/L		
DUP1@MW6S	6/20/2011	Bromoform	1	1.0	U	UG/L		
DUP1@MW6S	6/20/2011	1,1,2-Trichloroethane	1	1.0	U	UG/L	5	5
DUP1@MW6S	6/20/2011	Vinyl chloride	1	1.0	U	UG/L	2	2
DUP1@MW6S	6/20/2011	Benzene	1	1.0	U	UG/L	5	5
DUP1@MW6S	6/20/2011	cis-1,2-Dichloroethene	1	1.0	U	UG/L	70	70
DUP1@MW6S	6/20/2011	Xylenes, Total	3	3.0	U	UG/L	10000	10000
DUP1@MW6S	6/20/2011	Trichloroethene	1	1.0	U	UG/L	5	5
DUP1@MW6S	6/20/2011	trans-1,3-Dichloropropene	1	1.0	U	UG/L		
DUP1@MW6S	6/20/2011	trans-1,2-Dichloroethene	1	1.0	U	UG/L	100	100
DUP1@MW6S	6/20/2011	Toluene	1	1.0	U	UG/L	1000	1000
DUP1@MW6S	6/20/2011	Tetrachloroethene	1	1.0	U	UG/L	5	5
DUP1@MW6S	6/20/2011	Ethylbenzene	1	1.0	U	UG/L	700	700
DUP1@MW6S	6/20/2011	Styrene	1	1.0	U	UG/L	100	100
DUP1@MW6S	6/20/2011	1,1,1-Trichloroethane	1	1.0	U	UG/L	200	200
DUP1@MW6S	6/20/2011	Methylene Chloride	2	2.0	U	UG/L	5	5
DUP1@MW6S	6/20/2011	methyl isobutyl ketone	10	10	U	UG/L		
DUP1@MW6S	6/20/2011	Ketone, ethyl methyl	10	10	U	UG/L		

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DUP1@MW6S	6/20/2011	1,1,2,2-Tetrachloroethane	1	1.0	U	UG/L		
DUP1@MW6S	6/20/2011	cis-1,3-Dichloropropene	1	1.0	U	UG/L		
DUP1@MW6S	6/20/2011	Dibromochloromethane	1	1.0	U	UG/L		
DUP1RE@MW6	6/20/2011	4-Nitrophenol	50	50	U H	UG/L		
DUP1RE@MW6	6/20/2011	4-Nitroaniline	50	50	U H	UG/L		
DUP1RE@MW6	6/20/2011	4-Chlorophenyl phenyl ether	10	10	U H	UG/L		
DUP1RE@MW6	6/20/2011	4-Bromophenyl phenyl ether	10	10	U H	UG/L		
DUP1RE@MW6	6/20/2011	Benzo(a)anthracene	10	10	U H	UG/L		
DUP1RE@MW6	6/20/2011	3-Nitroaniline	50	50	U H	UG/L		
DUP1RE@MW6	6/20/2011	4-Chloroaniline	10	10	U H	UG/L		
DUP1RE@MW6	6/20/2011	Acenaphthene	10	10	U H	UG/L		
DUP1RE@MW6	6/20/2011	Anthracene	10	10	U H	UG/L		
DUP1RE@MW6	6/20/2011	Benzo(ghi)perylene	10	10	U H	UG/L		
DUP1RE@MW6	6/20/2011	Benzo(a)pyrene	10	10	U H	UG/L	0.2	0.2
DUP1RE@MW6	6/20/2011	Benzo(b)fluoranthene	10	10	U H	UG/L		
DUP1RE@MW6	6/20/2011	3,3'-Dichlorobenzidine	10	10	U H	UG/L		
DUP1RE@MW6	6/20/2011	2,4-Dichlorophenol	10	10	U H	UG/L		
DUP1RE@MW6	6/20/2011	Acenaphthylene	10	10	U H	UG/L		
DUP1RE@MW6	6/20/2011	2,4,6-Trichlorophenol	10	10	U H	UG/L		
DUP1RE@MW6	6/20/2011	Butyl benzyl phthalate	10	10	U H	UG/L		
DUP1RE@MW6	6/20/2011	Benzo(k)fluoranthene	10	10	U H	UG/L		
DUP1RE@MW6	6/20/2011	1,2,4-Trichlorobenzene	10	10	U H	UG/L	70	70
DUP1RE@MW6	6/20/2011	1,2-Dichlorobenzene	10	10	U H	UG/L	600	600
DUP1RE@MW6	6/20/2011	1,3-Dichlorobenzene	10	10	U H	UG/L		
DUP1RE@MW6	6/20/2011	1,4-Dichlorobenzene	10	10	U H	UG/L	75	75
DUP1RE@MW6	6/20/2011	2,4-Dinitrophenol	50	50	U H	UG/L		
DUP1RE@MW6	6/20/2011	2,4,5-Trichlorophenol	50	50	U H	UG/L		
DUP1RE@MW6	6/20/2011	2-Nitrophenol	10	10	U H	UG/L		
DUP1RE@MW6	6/20/2011	2,4-Dimethylphenol	10	10	U H	UG/L		
DUP1RE@MW6	6/20/2011	2,4-Dinitrotoluene	10	10	U H	UG/L		
DUP1RE@MW6	6/20/2011	2,6-Dinitrotoluene	10	10	U H	UG/L		
DUP1RE@MW6	6/20/2011	2-Chloronaphthalene	10	10	U H	UG/L		
DUP1RE@MW6	6/20/2011	2-Chlorophenol	10	10	U H	UG/L		
DUP1RE@MW6	6/20/2011	2-Methylnaphthalene	10	10	U H	UG/L		
DUP1RE@MW6	6/20/2011	2-Nitroaniline	50	50	U H	UG/L		
DUP1RE@MW6	6/20/2011	2,2'-Oxybis(1-chloropropane)	10	10	U H *	UG/L		
DUP1RE@MW6	6/20/2011	N-Nitrosodiphenylamine	10	10	U H	UG/L		
DUP1RE@MW6	6/20/2011	Bis(2-chloroethyl)ether	10	10	U H	UG/L		
DUP1RE@MW6	6/20/2011	Bis(2-chloroethoxy)methane	10	10	U H	UG/L		

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DUP1RE@MW6	6/20/2011	Pyrene	10	10	U H	UG/L		
DUP1RE@MW6	6/20/2011	Phenol	10	10	U H	UG/L		100
DUP1RE@MW6	6/20/2011	Phenanthrene	10	10	U H	UG/L		
DUP1RE@MW6	6/20/2011	o-Cresol, 4,6-dinitro-	50	50	U H	UG/L		
DUP1RE@MW6	6/20/2011	N-Nitrosodi-n-propylamine	10	10	U H	UG/L		
DUP1RE@MW6	6/20/2011	Nitrobenzene	10	10	U H	UG/L		
DUP1RE@MW6	6/20/2011	Naphthalene	10	10	U H	UG/L		
DUP1RE@MW6	6/20/2011	Isophorone	10	10	U H	UG/L		
DUP1RE@MW6	6/20/2011	Indeno(1,2,3-cd)pyrene	10	10	U H	UG/L		
DUP1RE@MW6	6/20/2011	Hexachloroethane	10	10	U H	UG/L		
DUP1RE@MW6	6/20/2011	Hexachlorocyclopentadiene	24	24	U H	UG/L	50	50
DUP1RE@MW6	6/20/2011	Hexachlorobutadiene	40	40	U H	UG/L		
DUP1RE@MW6	6/20/2011	Dibenzo(a,h)anthracene	10	10	U H	UG/L		
DUP1RE@MW6	6/20/2011	Hexachlorobenzene	10	10	U H	UG/L	1	
DUP1RE@MW6	6/20/2011	Chloro-m-cresol, p-	10	10	U H	UG/L		
DUP1RE@MW6	6/20/2011	Chrysene	10	10	U H	UG/L		
DUP1RE@MW6	6/20/2011	Cresol, o-	10	10	U H	UG/L		
DUP1RE@MW6	6/20/2011	Carbazole	10	10	U H	UG/L		
DUP1RE@MW6	6/20/2011	Pentachlorophenol	50	50	U H	UG/L	1	1
DUP1RE@MW6	6/20/2011	Bis(2-ethylhexyl) phthalate	10	10	U H	UG/L	6	6
DUP1RE@MW6	6/20/2011	Dibenzofuran	10	10	U H	UG/L		
DUP1RE@MW6	6/20/2011	Diethyl phthalate	10	10	U H	UG/L		
DUP1RE@MW6	6/20/2011	Dimethyl phthalate	10	10	U H	UG/L		
DUP1RE@MW6	6/20/2011	Di-n-butyl phthalate	10	10	U H	UG/L		
DUP1RE@MW6	6/20/2011	Di-n-octyl phthalate	10	10	U H	UG/L		
DUP1RE@MW6	6/20/2011	Fluoranthene	10	10	U H	UG/L		
DUP1RE@MW6	6/20/2011	Fluorene	10	10	U H	UG/L		
DUP1RE@MW6	6/20/2011	Cresol, p-	10	10	U H	UG/L		
DUP2@MW10S	6/15/2011	Alkalinity, Total	300	10.0		MG/L		
DUP2@MW10S	6/15/2011	Chloride	13.9	1.0		MG/L		200
DUP2@MW10S	6/15/2011	Total Organic Carbon	1	1.0	U	MG/L		
DUP2@MW10S	6/15/2011	Sulfate	117	1.0		MG/L		400
DUP2@MW10S	6/15/2011	Total Dissolved Solids	528	10.0		MG/L		1200
DUP2@MW10S	6/15/2011	Sulfide	1000	1000	U	UG/L		
DUP2@MW10S	6/15/2011	Total Suspended Solids	4	4.0	U	MG/L		
DUP2@MW10S	6/15/2011	Lead	0.005	0.0050	U	MG/L	0.015	0.008
DUP2@MW10S	6/15/2011	Magnesium	44.7	0.050		MG/L		
DUP2@MW10S	6/15/2011	Manganese	0.031	0.0010		MG/L		0.15
DUP2@MW10S	6/15/2011	Nickel	0.004	0.0040	U	MG/L		0.1

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DUP2@MW10S	6/15/2011	Potassium	1.2	0.20	B	MG/L		
DUP2@MW10S	6/15/2011	Silver	0.004	0.0040	U	MG/L		0.05
DUP2@MW10S	6/15/2011	Sodium	7.4	1.0		MG/L		
DUP2@MW10S	6/15/2011	Iron	0.29	0.060		MG/L		5
DUP2@MW10S	6/15/2011	Thallium	0.002	0.0020	U	MG/L	0.002	0.002
DUP2@MW10S	6/15/2011	Vanadium	0.003	0.0030	U	MG/L		
DUP2@MW10S	6/15/2011	Zinc	0.005	0.0050	U	MG/L		5
DUP2@MW10S	6/15/2011	Selenium	0.01	0.010	U	MG/L	0.05	0.05
DUP2@MW10S	6/15/2011	Total Cyanide	0.02	0.020	U	MG/L	200	200
DUP2@MW10S	6/15/2011	Aluminum	0.15	0.060		MG/L		
DUP2@MW10S	6/15/2011	Copper	0.004	0.0040	U	MG/L	1.3	0.65
DUP2@MW10S	6/15/2011	Mercury	0.0002	0.00020	U	MG/L	0.002	0.002
DUP2@MW10S	6/15/2011	Antimony	0.007	0.0070	U	MG/L	6	6
DUP2@MW10S	6/15/2011	Arsenic	0.01	0.010	U	MG/L	0.01	0.05
DUP2@MW10S	6/15/2011	Barium	0.047	0.0050		MG/L	2	2
DUP2@MW10S	6/15/2011	Beryllium	0.001	0.0010	U	MG/L	0.004	0.004
DUP2@MW10S	6/15/2011	Cadmium	0.001	0.0010	U	MG/L	0.005	0.005
DUP2@MW10S	6/15/2011	Calcium	93.3	0.10		MG/L		
DUP2@MW10S	6/15/2011	Chromium	0.0032	0.0030		MG/L	0.1	0.1
DUP2@MW10S	6/15/2011	Cobalt	0.003	0.0030	U	MG/L		1
DUP2@MW10S	6/15/2011	Trichloroethene	1	1.0	U	UG/L	5	5
DUP2@MW10S	6/15/2011	methyl isobutyl ketone	10	10	U	UG/L		
DUP2@MW10S	6/15/2011	Chloromethane	1	1.0	U	UG/L		
DUP2@MW10S	6/15/2011	cis-1,2-Dichloroethene	1	1.0	U	UG/L	70	70
DUP2@MW10S	6/15/2011	cis-1,3-Dichloropropene	1	1.0	U	UG/L		
DUP2@MW10S	6/15/2011	Dibromochloromethane	1	1.0	U	UG/L		
DUP2@MW10S	6/15/2011	Ethylbenzene	1	1.0	U	UG/L	700	700
DUP2@MW10S	6/15/2011	Ketone, ethyl methyl	10	10	U	UG/L		
DUP2@MW10S	6/15/2011	Chloroform	1	1.0	U	UG/L		
DUP2@MW10S	6/15/2011	Methylene Chloride	2	2.0	U	UG/L	5	5
DUP2@MW10S	6/15/2011	Styrene	1	1.0	U	UG/L	100	100
DUP2@MW10S	6/15/2011	Tetrachloroethene	1	1.0	U	UG/L	5	5
DUP2@MW10S	6/15/2011	Toluene	1	1.0	U	UG/L	1000	1000
DUP2@MW10S	6/15/2011	trans-1,3-Dichloropropene	1	1.0	U	UG/L		
DUP2@MW10S	6/15/2011	Vinyl chloride	1	1.0	U	UG/L	2	2
DUP2@MW10S	6/15/2011	Xylenes, Total	3	3.0	U	UG/L	10000	10000
DUP2@MW10S	6/15/2011	Chloroethane	1	1.0	U	UG/L		
DUP2@MW10S	6/15/2011	trans-1,2-Dichloroethene	1	1.0	U	UG/L	100	100
DUP2@MW10S	6/15/2011	1,1,2-Trichloroethane	1	1.0	U	UG/L	5	5

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DUP2@MW10S	6/15/2011	1,1,2,2-Tetrachloroethane	1	1.0	U	UG/L		
DUP2@MW10S	6/15/2011	Chlorobenzene	1	1.0	U	UG/L	100	100
DUP2@MW10S	6/15/2011	1,1-Dichloroethane	1	1.0	U	UG/L		
DUP2@MW10S	6/15/2011	1,1-Dichloroethene	1	1.0	U	UG/L	7	7
DUP2@MW10S	6/15/2011	1,2-Dichloroethane	1	1.0	U	UG/L	5	5
DUP2@MW10S	6/15/2011	1,2-Dichloropropane	1	1.0	U	UG/L	5	5
DUP2@MW10S	6/15/2011	2-Hexanone	10	10	U	UG/L		
DUP2@MW10S	6/15/2011	Acetone	10	10	U	UG/L		
DUP2@MW10S	6/15/2011	Benzene	1	1.0	U	UG/L	5	5
DUP2@MW10S	6/15/2011	Bromodichloromethane	1	1.0	U	UG/L		
DUP2@MW10S	6/15/2011	Bromoform	1	1.0	U	UG/L		
DUP2@MW10S	6/15/2011	Bromomethane	1	1.0	U	UG/L		
DUP2@MW10S	6/15/2011	Carbon disulfide	5	5.0	U	UG/L		
DUP2@MW10S	6/15/2011	Carbon tetrachloride	1	1.0	U	UG/L	5	5
DUP2@MW10S	6/15/2011	1,1,1-Trichloroethane	1	1.0	U	UG/L	200	200
FIELD BLANK01	6/14/2011	Alkalinity, Total	10	10.0	U	MG/L		
FIELD BLANK01	6/14/2011	Total Dissolved Solids	10	10.0	U	MG/L		1200
FIELD BLANK01	6/14/2011	Total Suspended Solids	4	4.0	U	MG/L		
FIELD BLANK01	6/14/2011	Sulfate	1	1.0	U	MG/L		400
FIELD BLANK01	6/14/2011	Chloride	1	1.0	U	MG/L		200
FIELD BLANK01	6/14/2011	Total Organic Carbon	1	1.0	U	MG/L		
FIELD BLANK01	6/14/2011	Sulfide	1000	1000	U	UG/L		
FIELD BLANK01	6/14/2011	Potassium	0.2	0.20	U	MG/L		
FIELD BLANK01	6/14/2011	Magnesium	0.05	0.050	U	MG/L		
FIELD BLANK01	6/14/2011	Lead	0.005	0.0050	U	MG/L	0.015	0.008
FIELD BLANK01	6/14/2011	Silver	0.004	0.0040	U	MG/L		0.05
FIELD BLANK01	6/14/2011	Manganese	0.001	0.0010	U	MG/L		0.15
FIELD BLANK01	6/14/2011	Sodium	1	1.0	U	MG/L		
FIELD BLANK01	6/14/2011	Vanadium	0.003	0.0030	U	MG/L		
FIELD BLANK01	6/14/2011	Zinc	0.005	0.0050	U	MG/L		5
FIELD BLANK01	6/14/2011	Iron	0.06	0.060	U	MG/L		5
FIELD BLANK01	6/14/2011	Mercury	0.0002	0.00020	U	MG/L	0.002	0.002
FIELD BLANK01	6/14/2011	Nickel	0.004	0.0040	U	MG/L		0.1
FIELD BLANK01	6/14/2011	Thallium	0.002	0.0020	U	MG/L	0.002	0.002
FIELD BLANK01	6/14/2011	Antimony	0.007	0.0070	U	MG/L	6	6
FIELD BLANK01	6/14/2011	Copper	0.004	0.0040	U	MG/L	1.3	0.65
FIELD BLANK01	6/14/2011	Selenium	0.01	0.010	U	MG/L	0.05	0.05
FIELD BLANK01	6/14/2011	Aluminum	0.06	0.060	U	MG/L		
FIELD BLANK01	6/14/2011	Arsenic	0.01	0.010	U	MG/L	0.01	0.05

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FIELD BLANK01	6/14/2011	Barium	0.005	0.0050	U	MG/L	2	2
FIELD BLANK01	6/14/2011	Beryllium	0.001	0.0010	U	MG/L	0.004	0.004
FIELD BLANK01	6/14/2011	Cadmium	0.001	0.0010	U	MG/L	0.005	0.005
FIELD BLANK01	6/14/2011	Calcium	0.1	0.10	U	MG/L		
FIELD BLANK01	6/14/2011	Chromium	0.003	0.0030	U	MG/L	0.1	0.1
FIELD BLANK01	6/14/2011	Cobalt	0.003	0.0030	U	MG/L		1
FIELD BLANK01	6/14/2011	Total Cyanide	0.02	0.020	U	MG/L	200	200
FIELD BLANK01	6/14/2011	Chloroform	1	1.0	U	UG/L		
FIELD BLANK01	6/14/2011	trans-1,2-Dichloroethene	1	1.0	U	UG/L	100	100
FIELD BLANK01	6/14/2011	Ketone, ethyl methyl	10	10	U	UG/L		
FIELD BLANK01	6/14/2011	Chloromethane	1	1.0	U	UG/L		
FIELD BLANK01	6/14/2011	cis-1,2-Dichloroethene	1	1.0	U	UG/L	70	70
FIELD BLANK01	6/14/2011	cis-1,3-Dichloropropene	1	1.0	U	UG/L		
FIELD BLANK01	6/14/2011	Dibromochloromethane	1	1.0	U	UG/L		
FIELD BLANK01	6/14/2011	Ethylbenzene	1	1.0	U	UG/L	700	700
FIELD BLANK01	6/14/2011	methyl isobutyl ketone	10	10	U	UG/L		
FIELD BLANK01	6/14/2011	Methylene Chloride	2	2.0	U	UG/L	5	5
FIELD BLANK01	6/14/2011	Styrene	1	1.0	U	UG/L	100	100
FIELD BLANK01	6/14/2011	Chloroethane	1	1.0	U	UG/L		
FIELD BLANK01	6/14/2011	Toluene	1	1.0	U	UG/L	1000	1000
FIELD BLANK01	6/14/2011	Benzene	1	1.0	U	UG/L	5	5
FIELD BLANK01	6/14/2011	trans-1,3-Dichloropropene	1	1.0	U	UG/L		
FIELD BLANK01	6/14/2011	Trichloroethene	1	1.0	U	UG/L	5	5
FIELD BLANK01	6/14/2011	Vinyl chloride	1	1.0	U	UG/L	2	2
FIELD BLANK01	6/14/2011	Tetrachloroethene	1	1.0	U	UG/L	5	5
FIELD BLANK01	6/14/2011	1,2-Dichloroethane	1	1.0	U	UG/L	5	5
FIELD BLANK01	6/14/2011	Xylenes, Total	3	3.0	U	UG/L	10000	10000
FIELD BLANK01	6/14/2011	1,1,1-Trichloroethane	1	1.0	U	UG/L	200	200
FIELD BLANK01	6/14/2011	1,1,2,2-Tetrachloroethane	1	1.0	U	UG/L		
FIELD BLANK01	6/14/2011	1,1,2-Trichloroethane	1	1.0	U	UG/L	5	5
FIELD BLANK01	6/14/2011	Bromoform	1	1.0	U	UG/L		
FIELD BLANK01	6/14/2011	1,1-Dichloroethene	1	1.0	U	UG/L	7	7
FIELD BLANK01	6/14/2011	Chlorobenzene	1	1.0	U	UG/L	100	100
FIELD BLANK01	6/14/2011	1,2-Dichloropropane	1	1.0	U	UG/L	5	5
FIELD BLANK01	6/14/2011	2-Hexanone	10	10	U	UG/L		
FIELD BLANK01	6/14/2011	Acetone	10	10	U	UG/L		
FIELD BLANK01	6/14/2011	Bromodichloromethane	1	1.0	U	UG/L		
FIELD BLANK01	6/14/2011	Bromomethane	1	1.0	U	UG/L		
FIELD BLANK01	6/14/2011	Carbon disulfide	5	5.0	U	UG/L		

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FIELD BLANK01	6/14/2011	Carbon tetrachloride	1	1.0	U	UG/L	5	5
FIELD BLANK01	6/14/2011	1,1-Dichloroethane	1	1.0	U	UG/L		
FIELD BLANK01	6/17/2011	Alkalinity, Total	10	10.0	U	MG/L		
FIELD BLANK01	6/17/2011	Total Suspended Solids	4	4.0	U	MG/L		
FIELD BLANK01	6/17/2011	Total Organic Carbon	1	1.0	U	MG/L		
FIELD BLANK01	6/17/2011	Sulfate	1	1.0	U	MG/L		400
FIELD BLANK01	6/17/2011	Nitrite	0.5	0.5	U	MG/L AS N	1	
FIELD BLANK01	6/17/2011	Sulfide	1000	1000	U	UG/L		
FIELD BLANK01	6/17/2011	Total Dissolved Solids	35	10.0		MG/L		1200
FIELD BLANK01	6/17/2011	Nitrate	0.5	0.5	U	MG/L AS N	10	10
FIELD BLANK01	6/17/2011	Chloride	1	1.0	U	MG/L		200
FIELD BLANK01	6/17/2011	Mercury	0.0002	0.00020	U	MG/L	0.002	0.002
FIELD BLANK01	6/17/2011	Iron	0.06	0.060	U	MG/L		5
FIELD BLANK01	6/17/2011	Lead	0.005	0.0050	U	MG/L	0.015	0.008
FIELD BLANK01	6/17/2011	Magnesium	0.05	0.050	U	MG/L		
FIELD BLANK01	6/17/2011	Manganese	0.001	0.0010	U	MG/L		0.15
FIELD BLANK01	6/17/2011	Nickel	0.004	0.0040	U	MG/L		0.1
FIELD BLANK01	6/17/2011	Potassium	0.2	0.20	U	MG/L		
FIELD BLANK01	6/17/2011	Selenium	0.01	0.010	U	MG/L	0.05	0.05
FIELD BLANK01	6/17/2011	Silver	0.004	0.0040	U	MG/L		0.05
FIELD BLANK01	6/17/2011	Copper	0.004	0.0040	U	MG/L	1.3	0.65
FIELD BLANK01	6/17/2011	Thallium	0.002	0.0020	U	MG/L	0.002	0.002
FIELD BLANK01	6/17/2011	Sodium	1	1.0	U	MG/L		
FIELD BLANK01	6/17/2011	Aluminum	0.06	0.060	U	MG/L		
FIELD BLANK01	6/17/2011	Vanadium	0.003	0.0030	U	MG/L		
FIELD BLANK01	6/17/2011	Zinc	0.005	0.0050	U	MG/L		5
FIELD BLANK01	6/17/2011	Chromium	0.003	0.0030	U	MG/L	0.1	0.1
FIELD BLANK01	6/17/2011	Calcium	0.1	0.10	U	MG/L		
FIELD BLANK01	6/17/2011	Cadmium	0.001	0.0010	U	MG/L	0.005	0.005
FIELD BLANK01	6/17/2011	Beryllium	0.001	0.0010	U	MG/L	0.004	0.004
FIELD BLANK01	6/17/2011	Barium	0.005	0.0050	U	MG/L	2	2
FIELD BLANK01	6/17/2011	Arsenic	0.01	0.010	U	MG/L	0.01	0.05
FIELD BLANK01	6/17/2011	Antimony	0.007	0.0070	U	MG/L	6	6
FIELD BLANK01	6/17/2011	Total Cyanide	0.02	0.020	U	MG/L	200	200
FIELD BLANK01	6/17/2011	Cobalt	0.003	0.0030	U	MG/L		1
FIELD BLANK01	6/17/2011	2,2'-Oxybis(1-chloropropane)	10	10	U	UG/L		
FIELD BLANK01	6/17/2011	2,4,5-Trichlorophenol	50	50	U	UG/L		
FIELD BLANK01	6/17/2011	Acenaphthylene	10	10	U	UG/L		
FIELD BLANK01	6/17/2011	1,4-Dichlorobenzene	10	10	U	UG/L	75	75

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Well ID	Sample Date	Parameter	Result	Reporting Limit	Qualifier	Units	MCL	Class I ILGWQS
FIELD BLANK01	6/17/2011	Acenaphthene	10	10	U	UG/L		
FIELD BLANK01	6/17/2011	2,4,6-Trichlorophenol	10	10	U	UG/L		
FIELD BLANK01	6/17/2011	1,3-Dichlorobenzene	10	10	U	UG/L		
FIELD BLANK01	6/17/2011	1,2-Dichlorobenzene	10	10	U	UG/L	600	600
FIELD BLANK01	6/17/2011	2,4-Dichlorophenol	10	10	U	UG/L		
FIELD BLANK01	6/17/2011	Benzo(a)anthracene	10	10	U	UG/L		
FIELD BLANK01	6/17/2011	2-Chloronaphthalene	10	10	U	UG/L		
FIELD BLANK01	6/17/2011	Benzo(a)pyrene	10	10	U	UG/L	0.2	0.2
FIELD BLANK01	6/17/2011	Benzo(b)fluoranthene	10	10	U	UG/L		
FIELD BLANK01	6/17/2011	Benzo(ghi)perylene	10	10	U	UG/L		
FIELD BLANK01	6/17/2011	1,2,4-Trichlorobenzene	10	10	U	UG/L	70	70
FIELD BLANK01	6/17/2011	3,3'-Dichlorobenzidine	10	10	U	UG/L		
FIELD BLANK01	6/17/2011	4-Bromophenyl phenyl ether	10	10	U	UG/L		
FIELD BLANK01	6/17/2011	4-Chloroaniline	10	10	U	UG/L		
FIELD BLANK01	6/17/2011	Di-n-octyl phthalate	10	10	U	UG/L		
FIELD BLANK01	6/17/2011	4-Chlorophenyl phenyl ether	10	10	U	UG/L		
FIELD BLANK01	6/17/2011	Benzo(k)fluoranthene	10	10	U	UG/L		
FIELD BLANK01	6/17/2011	4-Nitroaniline	50	50	U	UG/L		
FIELD BLANK01	6/17/2011	2,4-Dinitrotoluene	10	10	U	UG/L		
FIELD BLANK01	6/17/2011	3-Nitroaniline	50	50	U	UG/L		
FIELD BLANK01	6/17/2011	2,4-Dimethylphenol	10	10	U	UG/L		
FIELD BLANK01	6/17/2011	2-Nitrophenol	10	10	U	UG/L		
FIELD BLANK01	6/17/2011	2-Nitroaniline	50	50	U	UG/L		
FIELD BLANK01	6/17/2011	2-Methylnaphthalene	10	10	U	UG/L		
FIELD BLANK01	6/17/2011	2-Chlorophenol	10	10	U	UG/L		
FIELD BLANK01	6/17/2011	2,6-Dinitrotoluene	10	10	U	UG/L		
FIELD BLANK01	6/17/2011	2,4-Dinitrophenol	50	50	U	UG/L		
FIELD BLANK01	6/17/2011	4-Nitrophenol	50	50	U	UG/L		
FIELD BLANK01	6/17/2011	N-Nitrosodiphenylamine	10	10	U	UG/L		
FIELD BLANK01	6/17/2011	Dimethyl phthalate	10	10	U	UG/L		
FIELD BLANK01	6/17/2011	Hexachloroethane	10	10	U	UG/L		
FIELD BLANK01	6/17/2011	Indeno(1,2,3-cd)pyrene	10	10	U	UG/L		
FIELD BLANK01	6/17/2011	Isophorone	10	10	U	UG/L		
FIELD BLANK01	6/17/2011	Naphthalene	10	10	U	UG/L		
FIELD BLANK01	6/17/2011	Hexachlorobutadiene	40	40	U	UG/L		
FIELD BLANK01	6/17/2011	N-Nitrosodi-n-propylamine	10	10	U	UG/L		
FIELD BLANK01	6/17/2011	Hexachlorobenzene	10	10	U	UG/L	1	
FIELD BLANK01	6/17/2011	o-Cresol, 4,6-dinitro-	50	50	U	UG/L		
FIELD BLANK01	6/17/2011	Pentachlorophenol	50	50	U	UG/L	1	1

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FIELD BLANK01	6/17/2011	Phenanthrene	10	10	U	UG/L		
FIELD BLANK01	6/17/2011	Phenol	10	10	U	UG/L		100
FIELD BLANK01	6/17/2011	Pyrene	10	10	U	UG/L		
FIELD BLANK01	6/17/2011	Anthracene	10	10	U	UG/L		
FIELD BLANK01	6/17/2011	Nitrobenzene	10	10	U	UG/L		
FIELD BLANK01	6/17/2011	Cresol, p-	10	10	U	UG/L		
FIELD BLANK01	6/17/2011	Bis(2-chloroethyl)ether	10	10	U	UG/L		
FIELD BLANK01	6/17/2011	Bis(2-ethylhexyl) phthalate	10	10	U	UG/L	6	6
FIELD BLANK01	6/17/2011	Butyl benzyl phthalate	10	10	U	UG/L		
FIELD BLANK01	6/17/2011	Carbazole	10	10	U	UG/L		
FIELD BLANK01	6/17/2011	Chloro-m-cresol, p-	10	10	U	UG/L		
FIELD BLANK01	6/17/2011	Hexachlorocyclopentadiene	24	24	U	UG/L	50	50
FIELD BLANK01	6/17/2011	Cresol, o-	10	10	U	UG/L		
FIELD BLANK01	6/17/2011	Bis(2-chloroethoxy)methane	10	10	U	UG/L		
FIELD BLANK01	6/17/2011	Dibenzo(a,h)anthracene	10	10	U	UG/L		
FIELD BLANK01	6/17/2011	Dibenzofuran	10	10	U	UG/L		
FIELD BLANK01	6/17/2011	Diethyl phthalate	10	10	U	UG/L		
FIELD BLANK01	6/17/2011	Di-n-butyl phthalate	10	10	U	UG/L		
FIELD BLANK01	6/17/2011	Fluoranthene	10	10	U	UG/L		
FIELD BLANK01	6/17/2011	Fluorene	10	10	U	UG/L		
FIELD BLANK01	6/17/2011	Chrysene	10	10	U	UG/L		
FIELD BLANK01	6/17/2011	Dibromochloromethane	1	1.0	U	UG/L		
FIELD BLANK01	6/17/2011	1,1-Dichloroethene	1	1.0	U	UG/L	7	7
FIELD BLANK01	6/17/2011	Bromomethane	1	1.0	U	UG/L		
FIELD BLANK01	6/17/2011	Bromodichloromethane	1	1.0	U	UG/L		
FIELD BLANK01	6/17/2011	Benzene	1	1.0	U	UG/L	5	5
FIELD BLANK01	6/17/2011	Acetone	10	10	U	UG/L		
FIELD BLANK01	6/17/2011	2-Hexanone	10	10	U	UG/L		
FIELD BLANK01	6/17/2011	Carbon tetrachloride	1	1.0	U	UG/L	5	5
FIELD BLANK01	6/17/2011	1,2-Dichloroethane	1	1.0	U	UG/L	5	5
FIELD BLANK01	6/17/2011	Carbon disulfide	5	5.0	U	UG/L		
FIELD BLANK01	6/17/2011	1,1-Dichloroethane	1	1.0	U	UG/L		
FIELD BLANK01	6/17/2011	1,1,2-Trichloroethane	1	1.0	U	UG/L	5	5
FIELD BLANK01	6/17/2011	1,1,2,2-Tetrachloroethane	1	1.0	U	UG/L		
FIELD BLANK01	6/17/2011	1,1,1-Trichloroethane	1	1.0	U	UG/L	200	200
FIELD BLANK01	6/17/2011	Ketone, ethyl methyl	10	10	U	UG/L		
FIELD BLANK01	6/17/2011	Xylenes, Total	3	3.0	U	UG/L	10000	10000
FIELD BLANK01	6/17/2011	1,2-Dichloropropane	1	1.0	U	UG/L	5	5
FIELD BLANK01	6/17/2011	Methylene Chloride	2	2.0	U	UG/L	5	5

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FIELD BLANK01	6/17/2011	Vinyl chloride	1	1.0	U	UG/L	2	2
FIELD BLANK01	6/17/2011	Trichloroethene	1	1.0	U	UG/L	5	5
FIELD BLANK01	6/17/2011	trans-1,3-Dichloropropene	1	1.0	U	UG/L		
FIELD BLANK01	6/17/2011	trans-1,2-Dichloroethene	1	1.0	U	UG/L	100	100
FIELD BLANK01	6/17/2011	Toluene	1	1.0	U	UG/L	1000	1000
FIELD BLANK01	6/17/2011	Bromoform	1	1.0	U	UG/L		
FIELD BLANK01	6/17/2011	Styrene	1	1.0	U	UG/L	100	100
FIELD BLANK01	6/17/2011	Chlorobenzene	1	1.0	U	UG/L	100	100
FIELD BLANK01	6/17/2011	methyl isobutyl ketone	10	10	U	UG/L		
FIELD BLANK01	6/17/2011	Ethylbenzene	1	1.0	U	UG/L	700	700
FIELD BLANK01	6/17/2011	cis-1,3-Dichloropropene	1	1.0	U	UG/L		
FIELD BLANK01	6/17/2011	cis-1,2-Dichloroethene	1	1.0	U	UG/L	70	70
FIELD BLANK01	6/17/2011	Chloromethane	1	1.0	U	UG/L		
FIELD BLANK01	6/17/2011	Chloroform	1	1.0	U	UG/L		
FIELD BLANK01	6/17/2011	Chloroethane	1	1.0	U	UG/L		
FIELD BLANK01	6/17/2011	Tetrachloroethene	1	1.0	U	UG/L	5	5
FIELD BLANK01	6/23/2011	Nitrite	0.5	0.5	U	MG/L AS N	1	
FIELD BLANK01	6/23/2011	Nitrate	0.5	0.5	U	MG/L AS N	10	10
FIELD BLANK02	6/15/2011	Sulfate	1	1.0	U	MG/L		400
FIELD BLANK02	6/15/2011	Alkalinity, Total	10	10.0	U	MG/L		
FIELD BLANK02	6/15/2011	Total Dissolved Solids	10	10.0	U	MG/L		1200
FIELD BLANK02	6/15/2011	Total Suspended Solids	4	4.0	U	MG/L		
FIELD BLANK02	6/15/2011	Chloride	1	1.0	U	MG/L		200
FIELD BLANK02	6/15/2011	Total Organic Carbon	1	1.0	U	MG/L		
FIELD BLANK02	6/15/2011	Sulfide	1000	1000	U	UG/L		
FIELD BLANK02	6/15/2011	Lead	0.005	0.0050	U	MG/L	0.015	0.008
FIELD BLANK02	6/15/2011	Mercury	0.0002	0.00020	U	MG/L	0.002	0.002
FIELD BLANK02	6/15/2011	Thallium	0.002	0.0020	U	MG/L	0.002	0.002
FIELD BLANK02	6/15/2011	Zinc	0.005	0.0050	U	MG/L		5
FIELD BLANK02	6/15/2011	Vanadium	0.003	0.0030	U	MG/L		
FIELD BLANK02	6/15/2011	Sodium	1	1.0	U	MG/L		
FIELD BLANK02	6/15/2011	Silver	0.004	0.0040	U	MG/L		0.05
FIELD BLANK02	6/15/2011	Selenium	0.01	0.010	U	MG/L	0.05	0.05
FIELD BLANK02	6/15/2011	Potassium	0.2	0.20	U	MG/L		
FIELD BLANK02	6/15/2011	Nickel	0.004	0.0040	U	MG/L		0.1
FIELD BLANK02	6/15/2011	Total Cyanide	0.02	0.020	U	MG/L	200	200
FIELD BLANK02	6/15/2011	Magnesium	0.05	0.050	U	MG/L		
FIELD BLANK02	6/15/2011	Barium	0.005	0.0050	U	MG/L	2	2
FIELD BLANK02	6/15/2011	Arsenic	0.01	0.010	U	MG/L	0.01	0.05

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FIELD BLANK02	6/15/2011	Antimony	0.007	0.0070	U	MG/L	6	6
FIELD BLANK02	6/15/2011	Manganese	0.001	0.0010	U	MG/L		0.15
FIELD BLANK02	6/15/2011	Aluminum	0.06	0.060	U	MG/L		
FIELD BLANK02	6/15/2011	Iron	0.06	0.060	U	MG/L		5
FIELD BLANK02	6/15/2011	Beryllium	0.001	0.0010	U	MG/L	0.004	0.004
FIELD BLANK02	6/15/2011	Cadmium	0.001	0.0010	U	MG/L	0.005	0.005
FIELD BLANK02	6/15/2011	Calcium	0.1	0.10	U	MG/L		
FIELD BLANK02	6/15/2011	Chromium	0.003	0.0030	U	MG/L	0.1	0.1
FIELD BLANK02	6/15/2011	Cobalt	0.003	0.0030	U	MG/L		1
FIELD BLANK02	6/15/2011	Copper	0.004	0.0040	U	MG/L	1.3	0.65
FIELD BLANK02	6/15/2011	1,2-Dichloroethane	1	1.0	U	UG/L	5	5
FIELD BLANK02	6/15/2011	1,1,1-Trichloroethane	1	1.0	U	UG/L	200	200
FIELD BLANK02	6/15/2011	1,1,2,2-Tetrachloroethane	1	1.0	U	UG/L		
FIELD BLANK02	6/15/2011	1,1,2-Trichloroethane	1	1.0	U	UG/L	5	5
FIELD BLANK02	6/15/2011	1,1-Dichloroethane	1	1.0	U	UG/L		
FIELD BLANK02	6/15/2011	1,1-Dichloroethene	1	1.0	U	UG/L	7	7
FIELD BLANK02	6/15/2011	trans-1,2-Dichloroethene	1	1.0	U	UG/L	100	100
FIELD BLANK02	6/15/2011	cis-1,2-Dichloroethene	1	1.0	U	UG/L	70	70
FIELD BLANK02	6/15/2011	Xylenes, Total	3	3.0	U	UG/L	10000	10000
FIELD BLANK02	6/15/2011	Vinyl chloride	1	1.0	U	UG/L	2	2
FIELD BLANK02	6/15/2011	Trichloroethene	1	1.0	U	UG/L	5	5
FIELD BLANK02	6/15/2011	trans-1,3-Dichloropropene	1	1.0	U	UG/L		
FIELD BLANK02	6/15/2011	Toluene	1	1.0	U	UG/L	1000	1000
FIELD BLANK02	6/15/2011	Styrene	1	1.0	U	UG/L	100	100
FIELD BLANK02	6/15/2011	Methylene Chloride	2	2.0	U	UG/L	5	5
FIELD BLANK02	6/15/2011	methyl isobutyl ketone	10	10	U	UG/L		
FIELD BLANK02	6/15/2011	Ketone, ethyl methyl	10	10	U	UG/L		
FIELD BLANK02	6/15/2011	Ethylbenzene	1	1.0	U	UG/L	700	700
FIELD BLANK02	6/15/2011	Tetrachloroethene	1	1.0	U	UG/L	5	5
FIELD BLANK02	6/15/2011	cis-1,3-Dichloropropene	1	1.0	U	UG/L		
FIELD BLANK02	6/15/2011	1,2-Dichloropropane	1	1.0	U	UG/L	5	5
FIELD BLANK02	6/15/2011	Chloromethane	1	1.0	U	UG/L		
FIELD BLANK02	6/15/2011	Chloroform	1	1.0	U	UG/L		
FIELD BLANK02	6/15/2011	Chloroethane	1	1.0	U	UG/L		
FIELD BLANK02	6/15/2011	Chlorobenzene	1	1.0	U	UG/L	100	100
FIELD BLANK02	6/15/2011	Carbon tetrachloride	1	1.0	U	UG/L	5	5
FIELD BLANK02	6/15/2011	Carbon disulfide	5	5.0	U	UG/L		
FIELD BLANK02	6/15/2011	Bromomethane	1	1.0	U	UG/L		
FIELD BLANK02	6/15/2011	Bromoform	1	1.0	U	UG/L		

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FIELD BLANK02	6/15/2011	Bromodichloromethane	1	1.0	U	UG/L		
FIELD BLANK02	6/15/2011	Benzene	1	1.0	U	UG/L	5	5
FIELD BLANK02	6/15/2011	Acetone	10	10	U	UG/L		
FIELD BLANK02	6/15/2011	2-Hexanone	10	10	U	UG/L		
FIELD BLANK02	6/15/2011	Dibromochloromethane	1	1.0	U	UG/L		
TRIP BLANK	6/14/2011	Benzene	1	1.0	U	UG/L	5	5
TRIP BLANK	6/14/2011	Toluene	1	1.0	U	UG/L	1000	1000
TRIP BLANK	6/14/2011	cis-1,2-Dichloroethene	1	1.0	U	UG/L	70	70
TRIP BLANK	6/14/2011	cis-1,3-Dichloropropene	1	1.0	U	UG/L		
TRIP BLANK	6/14/2011	Dibromochloromethane	1	1.0	U	UG/L		
TRIP BLANK	6/14/2011	Ethylbenzene	1	1.0	U	UG/L	700	700
TRIP BLANK	6/14/2011	Ketone, ethyl methyl	10	10	U	UG/L		
TRIP BLANK	6/14/2011	Chloromethane	1	1.0	U	UG/L		
TRIP BLANK	6/14/2011	Styrene	1	1.0	U	UG/L	100	100
TRIP BLANK	6/14/2011	Methylene Chloride	2	2.0	U	UG/L	5	5
TRIP BLANK	6/14/2011	trans-1,2-Dichloroethene	1	1.0	U	UG/L	100	100
TRIP BLANK	6/14/2011	trans-1,3-Dichloropropene	1	1.0	U	UG/L		
TRIP BLANK	6/14/2011	Trichloroethene	1	1.0	U	UG/L	5	5
TRIP BLANK	6/14/2011	Vinyl chloride	1	1.0	U	UG/L	2	2
TRIP BLANK	6/14/2011	Xylenes, Total	3	3.0	U	UG/L	10000	10000
TRIP BLANK	6/14/2011	1,1,1-Trichloroethane	1	1.0	U	UG/L	200	200
TRIP BLANK	6/14/2011	methyl isobutyl ketone	10	10	U	UG/L		
TRIP BLANK	6/14/2011	Acetone	10	10	U	UG/L		
TRIP BLANK	6/14/2011	Tetrachloroethene	1	1.0	U	UG/L	5	5
TRIP BLANK	6/14/2011	Chloroform	1	1.0	U	UG/L		
TRIP BLANK	6/14/2011	1,1-Dichloroethane	1	1.0	U	UG/L		
TRIP BLANK	6/14/2011	1,1-Dichloroethene	1	1.0	U	UG/L	7	7
TRIP BLANK	6/14/2011	1,2-Dichloropropane	1	1.0	U	UG/L	5	5
TRIP BLANK	6/14/2011	1,1,2-Trichloroethane	1	1.0	U	UG/L	5	5
TRIP BLANK	6/14/2011	2-Hexanone	10	10	U	UG/L		
TRIP BLANK	6/14/2011	Carbon tetrachloride	1	1.0	U	UG/L	5	5
TRIP BLANK	6/14/2011	Chloroethane	1	1.0	U	UG/L		
TRIP BLANK	6/14/2011	1,2-Dichloroethane	1	1.0	U	UG/L	5	5
TRIP BLANK	6/14/2011	Chlorobenzene	1	1.0	U	UG/L	100	100
TRIP BLANK	6/14/2011	1,1,2,2-Tetrachloroethane	1	1.0	U	UG/L		
TRIP BLANK	6/14/2011	Carbon disulfide	5	5.0	U	UG/L		
TRIP BLANK	6/14/2011	Bromomethane	1	1.0	U	UG/L		
TRIP BLANK	6/14/2011	Bromoform	1	1.0	U	UG/L		
TRIP BLANK	6/14/2011	Bromodichloromethane	1	1.0	U	UG/L		

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TRIP BLANK	6/15/2011	Methylene Chloride	2	2.0	U	UG/L	5	5
TRIP BLANK	6/15/2011	cis-1,2-Dichloroethene	1	1.0	U	UG/L	70	70
TRIP BLANK	6/15/2011	Dibromochloromethane	1	1.0	U	UG/L		
TRIP BLANK	6/15/2011	Ethylbenzene	1	1.0	U	UG/L	700	700
TRIP BLANK	6/15/2011	Ketone, ethyl methyl	10	10	U	UG/L		
TRIP BLANK	6/15/2011	methyl isobutyl ketone	10	10	U	UG/L		
TRIP BLANK	6/15/2011	cis-1,3-Dichloropropene	1	1.0	U	UG/L		
TRIP BLANK	6/15/2011	Styrene	1	1.0	U	UG/L	100	100
TRIP BLANK	6/15/2011	Tetrachloroethene	1	1.0	U	UG/L	5	5
TRIP BLANK	6/15/2011	Toluene	1	1.0	U	UG/L	1000	1000
TRIP BLANK	6/15/2011	trans-1,2-Dichloroethene	1	1.0	U	UG/L	100	100
TRIP BLANK	6/15/2011	trans-1,3-Dichloropropene	1	1.0	U	UG/L		
TRIP BLANK	6/15/2011	Trichloroethene	1	1.0	U	UG/L	5	5
TRIP BLANK	6/15/2011	Xylenes, Total	3	3.0	U	UG/L	10000	10000
TRIP BLANK	6/15/2011	Chloroform	1	1.0	U	UG/L		
TRIP BLANK	6/15/2011	Chloroethane	1	1.0	U	UG/L		
TRIP BLANK	6/15/2011	Vinyl chloride	1	1.0	U	UG/L	2	2
TRIP BLANK	6/15/2011	1,2-Dichloroethane	1	1.0	U	UG/L	5	5
TRIP BLANK	6/15/2011	Chloromethane	1	1.0	U	UG/L		
TRIP BLANK	6/15/2011	1,1,2,2-Tetrachloroethane	1	1.0	U	UG/L		
TRIP BLANK	6/15/2011	1,1,2-Trichloroethane	1	1.0	U	UG/L	5	5
TRIP BLANK	6/15/2011	1,1-Dichloroethene	1	1.0	U	UG/L	7	7
TRIP BLANK	6/15/2011	1,1,1-Trichloroethane	1	1.0	U	UG/L	200	200
TRIP BLANK	6/15/2011	1,2-Dichloropropane	1	1.0	U	UG/L	5	5
TRIP BLANK	6/15/2011	2-Hexanone	10	10	U	UG/L		
TRIP BLANK	6/15/2011	Carbon tetrachloride	1	1.0	U	UG/L	5	5
TRIP BLANK	6/15/2011	Benzene	1	1.0	U	UG/L	5	5
TRIP BLANK	6/15/2011	Bromodichloromethane	1	1.0	U	UG/L		
TRIP BLANK	6/15/2011	Bromoform	1	1.0	U	UG/L		
TRIP BLANK	6/15/2011	Bromomethane	1	1.0	U	UG/L		
TRIP BLANK	6/15/2011	Chlorobenzene	1	1.0	U	UG/L	100	100
TRIP BLANK	6/15/2011	Carbon disulfide	5	5.0	U	UG/L		
TRIP BLANK	6/15/2011	Acetone	10	10	U	UG/L		
TRIP BLANK	6/15/2011	1,1-Dichloroethane	1	1.0	U	UG/L		
TRIP BLANK	6/16/2011	Carbon tetrachloride	1	1.0	U	UG/L	5	5
TRIP BLANK	6/16/2011	Chlorobenzene	1	1.0	U	UG/L	100	100
TRIP BLANK	6/16/2011	Chloroethane	1	1.0	U	UG/L		
TRIP BLANK	6/16/2011	Chloroform	1	1.0	U	UG/L		
TRIP BLANK	6/16/2011	cis-1,2-Dichloroethene	1	1.0	U	UG/L	70	70

Appendix E
Tri-County Landfill
Quality Control Analytical Data

Well ID	Sample Date	Parameter	Result	Reporting Limit	Qualifier	Units	MCL	Class I ILGWQS
TRIP BLANK	6/16/2011	Carbon disulfide	5	5.0	U	UG/L		
TRIP BLANK	6/16/2011	Chloromethane	1	1.0	U	UG/L		
TRIP BLANK	6/16/2011	Bromomethane	1	1.0	U	UG/L		
TRIP BLANK	6/16/2011	Bromoform	1	1.0	U	UG/L		
TRIP BLANK	6/16/2011	Bromodichloromethane	1	1.0	U	UG/L		
TRIP BLANK	6/16/2011	Benzene	1	1.0	U	UG/L	5	5
TRIP BLANK	6/16/2011	Acetone	10	10	U	UG/L		
TRIP BLANK	6/16/2011	2-Hexanone	10	10	U	UG/L		
TRIP BLANK	6/16/2011	cis-1,3-Dichloropropene	1	1.0	U	UG/L		
TRIP BLANK	6/16/2011	1,2-Dichloropropane	1	1.0	U	UG/L	5	5
TRIP BLANK	6/16/2011	trans-1,3-Dichloropropene	1	1.0	U	UG/L		
TRIP BLANK	6/16/2011	1,1-Dichloroethene	1	1.0	U	UG/L	7	7
TRIP BLANK	6/16/2011	trans-1,2-Dichloroethene	1	1.0	U	UG/L	100	100
TRIP BLANK	6/16/2011	1,1-Dichloroethane	1	1.0	U	UG/L		
TRIP BLANK	6/16/2011	1,1,2-Trichloroethane	1	1.0	U	UG/L	5	5
TRIP BLANK	6/16/2011	1,1,2,2-Tetrachloroethane	1	1.0	U	UG/L		
TRIP BLANK	6/16/2011	1,1,1-Trichloroethane	1	1.0	U	UG/L	200	200
TRIP BLANK	6/16/2011	Xylenes, Total	3	3.0	U	UG/L	10000	10000
TRIP BLANK	6/16/2011	Vinyl chloride	1	1.0	U	UG/L	2	2
TRIP BLANK	6/16/2011	Toluene	1	1.0	U	UG/L	1000	1000
TRIP BLANK	6/16/2011	1,2-Dichloroethane	1	1.0	U	UG/L	5	5
TRIP BLANK	6/16/2011	Dibromochloromethane	1	1.0	U	UG/L		
TRIP BLANK	6/16/2011	Tetrachloroethene	1	1.0	U	UG/L	5	5
TRIP BLANK	6/16/2011	Styrene	1	1.0	U	UG/L	100	100
TRIP BLANK	6/16/2011	Methylene Chloride	2	2.0	U	UG/L	5	5
TRIP BLANK	6/16/2011	methyl isobutyl ketone	10	10	U	UG/L		
TRIP BLANK	6/16/2011	Ketone, ethyl methyl	10	10	U	UG/L		
TRIP BLANK	6/16/2011	Ethylbenzene	1	1.0	U	UG/L	700	700
TRIP BLANK	6/16/2011	Trichloroethene	1	1.0	U	UG/L	5	5
TRIP BLANK	6/17/2011	2-Hexanone	10	10	U	UG/L		
TRIP BLANK	6/17/2011	Carbon tetrachloride	1	1.0	U	UG/L	5	5
TRIP BLANK	6/17/2011	Carbon disulfide	5	5.0	U	UG/L		
TRIP BLANK	6/17/2011	Bromomethane	1	1.0	U	UG/L		
TRIP BLANK	6/17/2011	Bromoform	1	1.0	U	UG/L		
TRIP BLANK	6/17/2011	Bromodichloromethane	1	1.0	U	UG/L		
TRIP BLANK	6/17/2011	1,1,1-Trichloroethane	1	1.0	U	UG/L	200	200
TRIP BLANK	6/17/2011	Acetone	10	10	U	UG/L		
TRIP BLANK	6/17/2011	cis-1,2-Dichloroethene	1	1.0	U	UG/L	70	70
TRIP BLANK	6/17/2011	1,2-Dichloropropane	1	1.0	U	UG/L	5	5

Appendix E
Tri-County Landfill
Quality Control Analytical Data

Well ID	Sample Date	Parameter	Result	Reporting Limit	Qualifier	Units	MCL	Class I ILGWQS
TRIP BLANK	6/17/2011	1,2-Dichloroethane	1	1.0	U	UG/L	5	5
TRIP BLANK	6/17/2011	1,1-Dichloroethene	1	1.0	U	UG/L	7	7
TRIP BLANK	6/17/2011	1,1-Dichloroethane	1	1.0	U	UG/L		
TRIP BLANK	6/17/2011	1,1,2-Trichloroethane	1	1.0	U	UG/L	5	5
TRIP BLANK	6/17/2011	1,1,2,2-Tetrachloroethane	1	1.0	U	UG/L		
TRIP BLANK	6/17/2011	Benzene	1	1.0	U	UG/L	5	5
TRIP BLANK	6/17/2011	Methylene Chloride	2	2.0	U	UG/L	5	5
TRIP BLANK	6/17/2011	Xylenes, Total	3	3.0	U	UG/L	10000	10000
TRIP BLANK	6/17/2011	Vinyl chloride	1	1.0	U	UG/L	2	2
TRIP BLANK	6/17/2011	Trichloroethene	1	1.0	U	UG/L	5	5
TRIP BLANK	6/17/2011	trans-1,3-Dichloropropene	1	1.0	U	UG/L		
TRIP BLANK	6/17/2011	trans-1,2-Dichloroethene	1	1.0	U	UG/L	100	100
TRIP BLANK	6/17/2011	Toluene	1	1.0	U	UG/L	1000	1000
TRIP BLANK	6/17/2011	Chlorobenzene	1	1.0	U	UG/L	100	100
TRIP BLANK	6/17/2011	Styrene	1	1.0	U	UG/L	100	100
TRIP BLANK	6/17/2011	Chloroform	1	1.0	U	UG/L		
TRIP BLANK	6/17/2011	methyl isobutyl ketone	10	10	U	UG/L		
TRIP BLANK	6/17/2011	Ketone, ethyl methyl	10	10	U	UG/L		
TRIP BLANK	6/17/2011	Ethylbenzene	1	1.0	U	UG/L	700	700
TRIP BLANK	6/17/2011	Dibromochloromethane	1	1.0	U	UG/L		
TRIP BLANK	6/17/2011	cis-1,3-Dichloropropene	1	1.0	U	UG/L		
TRIP BLANK	6/17/2011	Chloroethane	1	1.0	U	UG/L		
TRIP BLANK	6/17/2011	Tetrachloroethene	1	1.0	U	UG/L	5	5
TRIP BLANK	6/17/2011	Chloromethane	1	1.0	U	UG/L		
TRIP BLANK	6/17/2011	methyl isobutyl ketone	10	10	U	UG/L		
TRIP BLANK	6/17/2011	Xylenes, Total	3	3.0	U	UG/L	10000	10000
TRIP BLANK	6/17/2011	Chloroform	1	1.0	U	UG/L		
TRIP BLANK	6/17/2011	Chloromethane	1	1.0	U	UG/L		
TRIP BLANK	6/17/2011	cis-1,2-Dichloroethene	1	1.0	U	UG/L	70	70
TRIP BLANK	6/17/2011	cis-1,3-Dichloropropene	1	1.0	U	UG/L		
TRIP BLANK	6/17/2011	Dibromochloromethane	1	1.0	U	UG/L		
TRIP BLANK	6/17/2011	Chloroethane	1	1.0	U	UG/L		
TRIP BLANK	6/17/2011	Ketone, ethyl methyl	10	10	U	UG/L		
TRIP BLANK	6/17/2011	trans-1,3-Dichloropropene	1	1.0	U	UG/L		
TRIP BLANK	6/17/2011	Methylene Chloride	2	2.0	U	UG/L	5	5
TRIP BLANK	6/17/2011	Styrene	1	1.0	U	UG/L	100	100
TRIP BLANK	6/17/2011	Tetrachloroethene	1	1.0	U	UG/L	5	5
TRIP BLANK	6/17/2011	Toluene	1	1.0	U	UG/L	1000	1000
TRIP BLANK	6/17/2011	trans-1,2-Dichloroethene	1	1.0	U	UG/L	100	100

Appendix E
Tri-County Landfill
Quality Control Analytical Data

Well ID	Sample Date	Parameter	Result	Reporting Limit	Qualifier	Units	MCL	Class I ILGWQS
TRIP BLANK	6/17/2011	Trichloroethene	1	1.0	U	UG/L	5	5
TRIP BLANK	6/17/2011	Ethylbenzene	1	1.0	U	UG/L	700	700
TRIP BLANK	6/17/2011	1,1,2,2-Tetrachloroethane	1	1.0	U	UG/L		
TRIP BLANK	6/17/2011	Vinyl chloride	1	1.0	U	UG/L	2	2
TRIP BLANK	6/17/2011	1,1,1-Trichloroethane	1	1.0	U	UG/L	200	200
TRIP BLANK	6/17/2011	1,1,2-Trichloroethane	1	1.0	U	UG/L	5	5
TRIP BLANK	6/17/2011	1,1-Dichloroethane	1	1.0	U	UG/L		
TRIP BLANK	6/17/2011	1,1-Dichloroethene	1	1.0	U	UG/L	7	7
TRIP BLANK	6/17/2011	1,2-Dichloroethane	1	1.0	U	UG/L	5	5
TRIP BLANK	6/17/2011	1,2-Dichloropropane	1	1.0	U	UG/L	5	5
TRIP BLANK	6/17/2011	2-Hexanone	10	10	U	UG/L		
TRIP BLANK	6/17/2011	Carbon tetrachloride	1	1.0	U	UG/L	5	5
TRIP BLANK	6/17/2011	Benzene	1	1.0	U	UG/L	5	5
TRIP BLANK	6/17/2011	Bromodichloromethane	1	1.0	U	UG/L		
TRIP BLANK	6/17/2011	Bromoform	1	1.0	U	UG/L		
TRIP BLANK	6/17/2011	Bromomethane	1	1.0	U	UG/L		
TRIP BLANK	6/17/2011	Carbon disulfide	5	5.0	U	UG/L		
TRIP BLANK	6/17/2011	Chlorobenzene	1	1.0	U	UG/L	100	100
TRIP BLANK	6/17/2011	Acetone	10	10	U	UG/L		
TRIP BLANK	6/20/2011	methyl isobutyl ketone	10	10	U	UG/L		
TRIP BLANK	6/20/2011	Ketone, ethyl methyl	10	10	U	UG/L		
TRIP BLANK	6/20/2011	Ethylbenzene	1	1.0	U	UG/L	700	700
TRIP BLANK	6/20/2011	Dibromochloromethane	1	1.0	U	UG/L		
TRIP BLANK	6/20/2011	cis-1,2-Dichloroethene	1	1.0	U	UG/L	70	70
TRIP BLANK	6/20/2011	trans-1,2-Dichloroethene	1	1.0	U	UG/L	100	100
TRIP BLANK	6/20/2011	Chloromethane	1	1.0	U	UG/L		
TRIP BLANK	6/20/2011	cis-1,3-Dichloropropene	1	1.0	U	UG/L		
TRIP BLANK	6/20/2011	Methylene Chloride	2	2.0	U	UG/L	5	5
TRIP BLANK	6/20/2011	Styrene	1	1.0	U	UG/L	100	100
TRIP BLANK	6/20/2011	Trichloroethene	1	1.0	U	UG/L	5	5
TRIP BLANK	6/20/2011	Toluene	1	1.0	U	UG/L	1000	1000
TRIP BLANK	6/20/2011	trans-1,3-Dichloropropene	1	1.0	U	UG/L		
TRIP BLANK	6/20/2011	Chloroform	1	1.0	U	UG/L		
TRIP BLANK	6/20/2011	2-Hexanone	10	10	U	UG/L		
TRIP BLANK	6/20/2011	Vinyl chloride	1	1.0	U	UG/L	2	2
TRIP BLANK	6/20/2011	Tetrachloroethene	1	1.0	U	UG/L	5	5
TRIP BLANK	6/20/2011	1,1,1-Trichloroethane	1	1.0	U	UG/L	200	200
TRIP BLANK	6/20/2011	Xylenes, Total	3	3.0	U	UG/L	10000	10000
TRIP BLANK	6/20/2011	1,1,2,2-Tetrachloroethane	1	1.0	U	UG/L		

Appendix E
Tri-County Landfill
Quality Control Analytical Data

Well ID	Sample Date	Parameter	Result	Reporting Limit	Qualifier	Units	MCL	Class I ILGWQS
TRIP BLANK	6/20/2011	1,1,2-Trichloroethane	1	1.0	U	UG/L	5	5
TRIP BLANK	6/20/2011	1,1-Dichloroethane	1	1.0	U	UG/L		
TRIP BLANK	6/20/2011	1,1-Dichloroethene	1	1.0	U	UG/L	7	7
TRIP BLANK	6/20/2011	1,2-Dichloroethane	1	1.0	U	UG/L	5	5
TRIP BLANK	6/20/2011	Benzene	1	1.0	U	UG/L	5	5
TRIP BLANK	6/20/2011	Acetone	10	10	U	UG/L		
TRIP BLANK	6/20/2011	Chloroethane	1	1.0	U	UG/L		
TRIP BLANK	6/20/2011	Bromodichloromethane	1	1.0	U	UG/L		
TRIP BLANK	6/20/2011	Bromoform	1	1.0	U	UG/L		
TRIP BLANK	6/20/2011	Bromomethane	1	1.0	U	UG/L		
TRIP BLANK	6/20/2011	Carbon disulfide	5	5.0	U	UG/L		
TRIP BLANK	6/20/2011	Carbon tetrachloride	1	1.0	U	UG/L	5	5
TRIP BLANK	6/20/2011	Chlorobenzene	1	1.0	U	UG/L	100	100
TRIP BLANK	6/20/2011	1,2-Dichloropropane	1	1.0	U	UG/L	5	5

Notes:
Chloride and metals concentrations are total.
MCL = US EPA Maximum Contaminant Level.
ILGWQS = Illinois Class I Groundwater Quality Standard.
All laboratory analyses performed by TestAmerica Buffalo.
Nitrate and nitrite analysis performed by Environmental Monitoring Technologies, Inc.

Bold indicates exceedance of ILGWQS.

Italics indicates exceedance of MCL.

Bold and italics indicates exceedance of both the MCL and ILGWQS.

Qualifiers:
B = Analyte was detected in the associated Method Blank.
H = Sample was prepped or analyzed beyond the specified holding time.
U = Indicates compound/element was analyzed for, but not detected.
^ = ICV, CCV, ICB, CCB, ISA, ISB, CRI, CRA, DLCK or MCL standard: Instrument related QC exceeds the control limit.
* = LCS or LCSD exceeds the control limits.

Appendix E
Elgin Landfill
Quality Control Analytical Data

Well ID	Sample Date	Parameter	Result	Qualifier	Reporting Limit	MCL	Class I ILGWQS
DUP-1@MW36I	6/14/11	Dissolved Oxygen, Field (MG/L)	0.4				
DUP-1@MW36I	6/14/11	Ferrous Iron (MG/L)	6.2				
DUP-1@MW36I	6/14/11	pH, Field (SU)	6.94				9
DUP-1@MW36I	6/14/11	Specific Conductance (UMHOS/CM)	1841				
DUP-1@MW36I	6/14/11	Temperature (DEGREES C)	11.2				
DUP-1@MW36I	6/14/11	Water Elevation (FT/MSL)	734.35				
DUP-1@MW36I	6/14/11	2-Butanone (UG/L)		U	5		
DUP-1@MW36I	6/14/11	Alkalinity, Total (MG/L)	665		10		
DUP-1@MW36I	6/14/11	Aluminum (MG/L)		U	0.06		
DUP-1@MW36I	6/14/11	Antimony (MG/L)	0.00047	J	0.001	6	6
DUP-1@MW36I	6/14/11	Arsenic (MG/L)	0.0049		0.003	0.01	0.05
DUP-1@MW36I	6/14/11	Barium (MG/L)	0.42		0.005	2	2
DUP-1@MW36I	6/14/11	Beryllium (MG/L)		U	0.001	0.004	0.004
DUP-1@MW36I	6/14/11	Cadmium (MG/L)	0.00038	J	0.001	0.005	0.005
DUP-1@MW36I	6/14/11	Calcium (MG/L)	150		0.5		
DUP-1@MW36I	**6/14/11**	**Chloride (MG/L)**	**330**		**5**		**200**
DUP-1@MW36I	6/14/11	Chromium (MG/L)	0.028		0.005	0.1	0.1
DUP-1@MW36I	6/14/11	Cobalt (MG/L)	0.0024	J	0.05		1
DUP-1@MW36I	6/14/11	Copper (MG/L)		U	0.01	1.3	0.65
DUP-1@MW36I	**6/14/11**	**Iron (MG/L)**	**10.5**		**0.14**		**5**
DUP-1@MW36I	6/14/11	Lead (MG/L)	0.0034	J	0.005	0.015	0.0075
DUP-1@MW36I	6/14/11	Magnesium (MG/L)	107		0.2		
DUP-1@MW36I	**6/14/11**	**Manganese (MG/L)**	**0.24**		**0.003**		**0.15**
DUP-1@MW36I	6/14/11	Mercury (MG/L)		U	0.0004	0.002	0.002
DUP-1@MW36I	6/14/11	Nickel (MG/L)	0.024		0.01		0.1
DUP-1@MW36I	6/14/11	Nitrogen, Nitrate (MG/L)		U	0.013	10	10
DUP-1@MW36I	6/14/11	Nitrogen, Nitrite (MG/L)		U	0.014	1	
DUP-1@MW36I	6/14/11	Potassium (MG/L)	5		0.5		
DUP-1@MW36I	6/14/11	Selenium (MG/L)		U	0.015		0.1
DUP-1@MW36I	6/14/11	Silver (MG/L)		U	0.003		0.05
DUP-1@MW36I	6/14/11	Sodium (MG/L)	152		5		
DUP-1@MW36I	6/14/11	Sulfate (MG/L)	5.2		2		400
DUP-1@MW36I	6/14/11	Sulfide (UG/L)	1200	^	1000		
DUP-1@MW36I	6/14/11	Thallium (MG/L)		U	0.001	0.002	0.002
DUP-1@MW36I	6/14/11	Total Cyanide (MG/L)		U *	0.02	200	200
DUP-1@MW36I	**6/14/11**	**Total Dissolved Solids (MG/L)**	**1220**		**10**		**1200**
DUP-1@MW36I	6/14/11	Total Suspended Solids (MG/L)	19.6		4		
DUP-1@MW36I	6/14/11	Vanadium (MG/L)	0.0011	J	0.05		
DUP-1@MW36I	6/14/11	Zinc (MG/L)		U	0.02		5

Appendix E
Elgin Landfill
Quality Control Analytical Data

Well ID	Sample Date	Parameter	Result	Qualifier	Reporting Limit	MCL	Class I ILGWQS
DUP-1@MW36I	6/14/11	1,1,1-Trichloroethane (UG/L)		U	1	200	200
DUP-1@MW36I	6/14/11	1,1,2,2-Tetrachloroethane (UG/L)		U	1		
DUP-1@MW36I	6/14/11	1,1,2-Trichloroethane (UG/L)		U	1	5	5
DUP-1@MW36I	6/14/11	1,1-Dichloroethane (UG/L)		U	1		
DUP-1@MW36I	6/14/11	1,1-Dichloroethene (UG/L)		U	1	7	7
DUP-1@MW36I	6/14/11	1,2-Dichloroethane (UG/L)		U	1	5	5
DUP-1@MW36I	6/14/11	1,2-Dichloroethene, Total (UG/L)		U	2		
DUP-1@MW36I	6/14/11	1,2-Dichloropropane (UG/L)		U	1	5	5
DUP-1@MW36I	6/14/11	2-Hexanone (UG/L)		U	10		
DUP-1@MW36I	6/14/11	4-Methyl-2-pentanone (UG/L)		U	5		
DUP-1@MW36I	6/14/11	Acetone (UG/L)	4	J	5		
DUP-1@MW36I	6/14/11	Benzene (UG/L)		U	1	5	5
DUP-1@MW36I	6/14/11	Bromodichloromethane (UG/L)		U	1		
DUP-1@MW36I	6/14/11	Bromoform (UG/L)		U	1		
DUP-1@MW36I	6/14/11	Bromomethane (UG/L)		U	1		
DUP-1@MW36I	6/14/11	Carbon disulfide (UG/L)		U	5		
DUP-1@MW36I	6/14/11	Carbon tetrachloride (UG/L)		U	1	5	5
DUP-1@MW36I	6/14/11	Chlorobenzene (UG/L)		U	1	100	100
DUP-1@MW36I	6/14/11	Chloroethane (UG/L)		U	1		
DUP-1@MW36I	6/14/11	Chloroform (UG/L)		U	1		
DUP-1@MW36I	6/14/11	Chloromethane (UG/L)		U	1		
DUP-1@MW36I	6/14/11	cis-1,3-Dichloropropene (UG/L)		U	1		
DUP-1@MW36I	6/14/11	Dibromochloromethane (UG/L)		U	1		
DUP-1@MW36I	6/14/11	Ethylbenzene (UG/L)		U	1	700	700
DUP-1@MW36I	6/14/11	Methylene Chloride (UG/L)		U	2	5	5
DUP-1@MW36I	6/14/11	Styrene (UG/L)		U	1	100	100
DUP-1@MW36I	6/14/11	Tetrachloroethene (UG/L)		U	1	5	5
DUP-1@MW36I	6/14/11	Toluene (UG/L)		U	1	1000	1000
DUP-1@MW36I	6/14/11	Total Organic Carbon (MG/L)	2.4		1		
DUP-1@MW36I	6/14/11	trans-1,3-Dichloropropene (UG/L)		U	1		
DUP-1@MW36I	6/14/11	Trichloroethene (UG/L)		U	1	5	5
DUP-1@MW36I	6/14/11	Vinyl chloride (UG/L)		U	1	2	2
DUP-1@MW36I	6/14/11	Xylenes, Total (UG/L)		U	3	10000	10000
DUP-2@MW37S	6/15/11	Dissolved Oxygen, Field (MG/L)	8.89				
DUP-2@MW37S	6/15/11	Ferrous Iron (MG/L)	0				
DUP-2@MW37S	6/15/11	pH, Field (SU)	7.32				9
DUP-2@MW37S	6/15/11	Specific Conductance (UMHOS/CM)	667				
DUP-2@MW37S	6/15/11	Temperature (DEGREES C)	10.8				
DUP-2@MW37S	6/15/11	Water Elevation (FT/MSL)	736.34				

Appendix E
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Well ID	Sample Date	Parameter	Result	Qualifier	Reporting Limit	MCL	Class I ILGWQS
DUP-2@MW37S	6/15/11	2-Butanone (UG/L)		U	5		
DUP-2@MW37S	6/15/11	Alkalinity, Total (MG/L)	368		10		
DUP-2@MW37S	6/15/11	Aluminum (MG/L)	0.4		0.06		
DUP-2@MW37S	6/15/11	Antimony (MG/L)		U	0.001	6	6
DUP-2@MW37S	6/15/11	Arsenic (MG/L)	0.0016	J	0.003	0.01	0.05
DUP-2@MW37S	6/15/11	Barium (MG/L)	0.083		0.005	2	2
DUP-2@MW37S	6/15/11	Beryllium (MG/L)		U	0.001	0.004	0.004
DUP-2@MW37S	6/15/11	Cadmium (MG/L)		U	0.001	0.005	0.005
DUP-2@MW37S	6/15/11	Calcium (MG/L)	88.6		0.5		
DUP-2@MW37S	6/15/11	Chloride (MG/L)	13.7		1		200
DUP-2@MW37S	***6/15/11***	***Chromium (MG/L)***	***0.34***		***0.005***	***0.1***	***0.1***
DUP-2@MW37S	6/15/11	Cobalt (MG/L)	0.0016	J	0.05		1
DUP-2@MW37S	6/15/11	Copper (MG/L)	0.013		0.01	1.3	0.65
DUP-2@MW37S	6/15/11	Iron (MG/L)	4.9		0.14		5
DUP-2@MW37S	6/15/11	Lead (MG/L)		U	0.005	0.015	0.0075
DUP-2@MW37S	6/15/11	Magnesium (MG/L)	39.2		0.2		
DUP-2@MW37S	**6/15/11**	**Manganese (MG/L)**	**0.17**	**B**	**0.003**		**0.15**
DUP-2@MW37S	6/15/11	Mercury (MG/L)		U	0.0004	0.002	0.002
DUP-2@MW37S	6/15/11	Nickel (MG/L)	0.038		0.01		0.1
DUP-2@MW37S	6/15/11	Nitrogen, Nitrate (MG/L)	0.93		0.013	10	10
DUP-2@MW37S	6/15/11	Nitrogen, Nitrite (MG/L)		U	0.014	1	
DUP-2@MW37S	6/15/11	Potassium (MG/L)	5.3		0.5		
DUP-2@MW37S	6/15/11	Selenium (MG/L)		U	0.015		0.1
DUP-2@MW37S	6/15/11	Silver (MG/L)		U	0.003		0.05
DUP-2@MW37S	6/15/11	Sodium (MG/L)	15.1		5		
DUP-2@MW37S	6/15/11	Sulfate (MG/L)	23.5		1		400
DUP-2@MW37S	6/15/11	Sulfide (UG/L)		U	1000		
DUP-2@MW37S	6/15/11	Thallium (MG/L)	4.8E-05	J	0.001	0.002	0.002
DUP-2@MW37S	6/15/11	Total Cyanide (MG/L)		U	0.02	200	200
DUP-2@MW37S	6/15/11	Total Dissolved Solids (MG/L)	427		10		1200
DUP-2@MW37S	6/15/11	Total Suspended Solids (MG/L)	8.4		4		
DUP-2@MW37S	6/15/11	Vanadium (MG/L)	0.004	J	0.05		
DUP-2@MW37S	6/15/11	Zinc (MG/L)	0.011	J B	0.02		5
DUP-2@MW37S	6/15/11	1,1,1-Trichloroethane (UG/L)		U	1	200	200
DUP-2@MW37S	6/15/11	1,1,2,2-Tetrachloroethane (UG/L)		U	1		
DUP-2@MW37S	6/15/11	1,1,2-Trichloroethane (UG/L)		U	1	5	5
DUP-2@MW37S	6/15/11	1,1-Dichloroethane (UG/L)		U	1		
DUP-2@MW37S	6/15/11	1,1-Dichloroethene (UG/L)		U	1	7	7
DUP-2@MW37S	6/15/11	1,2-Dichloroethane (UG/L)		U	1	5	5

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Well ID	Sample Date	Parameter	Result	Qualifier	Reporting Limit	MCL	Class I ILGWQS
DUP-2@MW37S	6/15/11	1,2-Dichloroethene, Total (UG/L)		U	2		
DUP-2@MW37S	6/15/11	1,2-Dichloropropane (UG/L)		U	1	5	5
DUP-2@MW37S	6/15/11	2-Hexanone (UG/L)		U	10		
DUP-2@MW37S	6/15/11	4-Methyl-2-pentanone (UG/L)		U	5		
DUP-2@MW37S	6/15/11	Acetone (UG/L)		U	5		
DUP-2@MW37S	6/15/11	Benzene (UG/L)	1.4		1	5	5
DUP-2@MW37S	6/15/11	Bromodichloromethane (UG/L)		U	1		
DUP-2@MW37S	6/15/11	Bromoform (UG/L)		U	1		
DUP-2@MW37S	6/15/11	Bromomethane (UG/L)		U	1		
DUP-2@MW37S	6/15/11	Carbon disulfide (UG/L)		U	5		
DUP-2@MW37S	6/15/11	Carbon tetrachloride (UG/L)		U	1	5	5
DUP-2@MW37S	6/15/11	Chlorobenzene (UG/L)		U	1	100	100
DUP-2@MW37S	6/15/11	Chloroethane (UG/L)		U	1		
DUP-2@MW37S	6/15/11	Chloroform (UG/L)		U	1		
DUP-2@MW37S	6/15/11	Chloromethane (UG/L)		U	1		
DUP-2@MW37S	6/15/11	cis-1,3-Dichloropropene (UG/L)		U	1		
DUP-2@MW37S	6/15/11	Dibromochloromethane (UG/L)		U	1		
DUP-2@MW37S	6/15/11	Ethylbenzene (UG/L)		U	1	700	700
DUP-2@MW37S	6/15/11	Methylene Chloride (UG/L)		U	2	5	5
DUP-2@MW37S	6/15/11	Styrene (UG/L)		U	1	100	100
DUP-2@MW37S	6/15/11	Tetrachloroethene (UG/L)		U	1	5	5
DUP-2@MW37S	6/15/11	Toluene (UG/L)	2.5		1	1000	1000
DUP-2@MW37S	6/15/11	Total Organic Carbon (MG/L)		U	1		
DUP-2@MW37S	6/15/11	trans-1,3-Dichloropropene (UG/L)		U	1		
DUP-2@MW37S	6/15/11	Trichloroethene (UG/L)		U	1	5	5
DUP-2@MW37S	6/15/11	Vinyl chloride (UG/L)		U	1	2	2
DUP-2@MW37S	6/15/11	Xylenes, Total (UG/L)	1.3	J	3	10000	10000
Equipment Blank	6/15/11	2-Butanone (UG/L)		U	5		
Equipment Blank	6/15/11	Alkalinity, Total (MG/L)		U	10		
Equipment Blank	6/15/11	Aluminum (MG/L)		U	0.06		
Equipment Blank	6/15/11	Antimony (MG/L)		U	0.001	6	6
Equipment Blank	6/15/11	Arsenic (MG/L)		U	0.003	0.01	0.05
Equipment Blank	6/15/11	Barium (MG/L)		U	0.005	2	2
Equipment Blank	6/15/11	Beryllium (MG/L)		U	0.001	0.004	0.004
Equipment Blank	6/15/11	Cadmium (MG/L)		U	0.001	0.005	0.005
Equipment Blank	6/15/11	Calcium (MG/L)	0.11	J	0.5		
Equipment Blank	6/15/11	Chloride (MG/L)		U	1		200
Equipment Blank	6/15/11	Chromium (MG/L)		U	0.005	0.1	0.1
Equipment Blank	6/15/11	Cobalt (MG/L)		U	0.05		1

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Well ID	Sample Date	Parameter	Result	Qualifier	Reporting Limit	MCL	Class I ILGWQS
Equipment Blank	6/15/11	Copper (MG/L)		U	0.01	1.3	0.65
Equipment Blank	6/15/11	Iron (MG/L)		U	0.14		5
Equipment Blank	6/15/11	Lead (MG/L)		U	0.005	0.015	0.0075
Equipment Blank	6/15/11	Magnesium (MG/L)		U	0.2		
Equipment Blank	6/15/11	Manganese (MG/L)		U	0.003		0.15
Equipment Blank	6/15/11	Mercury (MG/L)		U	0.0004	0.002	0.002
Equipment Blank	6/15/11	Nickel (MG/L)		U	0.01		0.1
Equipment Blank	6/15/11	Nitrogen, Nitrate (MG/L)		U	0.013	10	10
Equipment Blank	6/15/11	Nitrogen, Nitrite (MG/L)		U	0.014	1	
Equipment Blank	6/15/11	Potassium (MG/L)		U	0.5		
Equipment Blank	6/15/11	Selenium (MG/L)		U	0.015		0.1
Equipment Blank	6/15/11	Silver (MG/L)		U	0.003		0.05
Equipment Blank	6/15/11	Sodium (MG/L)		U	5		
Equipment Blank	6/15/11	Sulfate (MG/L)		U	1		400
Equipment Blank	6/15/11	Sulfide (UG/L)		U	1000		
Equipment Blank	6/15/11	Thallium (MG/L)		U	0.001	0.002	0.002
Equipment Blank	6/15/11	Total Cyanide (MG/L)		U	0.02	200	200
Equipment Blank	6/15/11	Total Dissolved Solids (MG/L)	18		10		1200
Equipment Blank	6/15/11	Total Suspended Solids (MG/L)		U	4		
Equipment Blank	6/15/11	Vanadium (MG/L)		U	0.05		
Equipment Blank	6/15/11	Zinc (MG/L)	0.0019	J B	0.02		5
Equipment Blank	6/15/11	1,1,1-Trichloroethane (UG/L)		U	1	200	200
Equipment Blank	6/15/11	1,1,2,2-Tetrachloroethane (UG/L)		U	1		
Equipment Blank	6/15/11	1,1,2-Trichloroethane (UG/L)		U	1	5	5
Equipment Blank	6/15/11	1,1-Dichloroethane (UG/L)		U	1		
Equipment Blank	6/15/11	1,1-Dichloroethene (UG/L)		U	1	7	7
Equipment Blank	6/15/11	1,2-Dichloroethane (UG/L)		U	1	5	5
Equipment Blank	6/15/11	1,2-Dichloroethene, Total (UG/L)		U	2		
Equipment Blank	6/15/11	1,2-Dichloropropane (UG/L)		U	1	5	5
Equipment Blank	6/15/11	2-Hexanone (UG/L)		U	10		
Equipment Blank	6/15/11	4-Methyl-2-pentanone (UG/L)		U	5		
Equipment Blank	6/15/11	Acetone (UG/L)		U	5		
Equipment Blank	6/15/11	Benzene (UG/L)		U	1	5	5
Equipment Blank	6/15/11	Bromodichloromethane (UG/L)		U	1		
Equipment Blank	6/15/11	Bromoform (UG/L)		U	1		
Equipment Blank	6/15/11	Bromomethane (UG/L)		U	1		
Equipment Blank	6/15/11	Carbon disulfide (UG/L)		U	5		
Equipment Blank	6/15/11	Carbon tetrachloride (UG/L)		U	1	5	5
Equipment Blank	6/15/11	Chlorobenzene (UG/L)		U	1	100	100

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Well ID	Sample Date	Parameter	Result	Qualifier	Reporting Limit	MCL	Class I ILGWQS
Equipment Blank	6/15/11	Chloroethane (UG/L)		U	1		
Equipment Blank	6/15/11	Chloroform (UG/L)		U	1		
Equipment Blank	6/15/11	Chloromethane (UG/L)		U	1		
Equipment Blank	6/15/11	cis-1,3-Dichloropropene (UG/L)		U	1		
Equipment Blank	6/15/11	Dibromochloromethane (UG/L)		U	1		
Equipment Blank	6/15/11	Ethylbenzene (UG/L)		U	1	700	700
Equipment Blank	6/15/11	Methylene Chloride (UG/L)		U	2	5	5
Equipment Blank	6/15/11	Styrene (UG/L)		U	1	100	100
Equipment Blank	6/15/11	Tetrachloroethene (UG/L)		U	1	5	5
Equipment Blank	6/15/11	Toluene (UG/L)		U	1	1000	1000
Equipment Blank	6/15/11	Total Organic Carbon (MG/L)		U	1		
Equipment Blank	6/15/11	trans-1,3-Dichloropropene (UG/L)		U	1		
Equipment Blank	6/15/11	Trichloroethene (UG/L)		U	1	5	5
Equipment Blank	6/15/11	Vinyl chloride (UG/L)		U	1	2	2
Equipment Blank	6/15/11	Xylenes, Total (UG/L)		U	3	10000	10000
Field Blank	6/15/11	2-Butanone (UG/L)		U	5		
Field Blank	6/15/11	Alkalinity, Total (MG/L)		U	10		
Field Blank	6/15/11	Aluminum (MG/L)		U	0.06		
Field Blank	6/15/11	Antimony (MG/L)		U	0.001	6	6
Field Blank	6/15/11	Arsenic (MG/L)		U	0.003	0.01	0.05
Field Blank	6/15/11	Barium (MG/L)		U	0.005	2	2
Field Blank	6/15/11	Beryllium (MG/L)		U	0.001	0.004	0.004
Field Blank	6/15/11	Cadmium (MG/L)		U	0.001	0.005	0.005
Field Blank	6/15/11	Calcium (MG/L)		U	0.5		
Field Blank	6/15/11	Chloride (MG/L)		U	1		200
Field Blank	6/15/11	Chromium (MG/L)		U	0.005	0.1	0.1
Field Blank	6/15/11	Cobalt (MG/L)		U	0.05		1
Field Blank	6/15/11	Copper (MG/L)		U	0.01	1.3	0.65
Field Blank	6/15/11	Iron (MG/L)		U	0.14		5
Field Blank	6/15/11	Lead (MG/L)		U	0.005	0.015	0.0075
Field Blank	6/15/11	Magnesium (MG/L)		U	0.2		
Field Blank	6/15/11	Manganese (MG/L)		U	0.003		0.15
Field Blank	6/15/11	Mercury (MG/L)		U	0.0004	0.002	0.002
Field Blank	6/15/11	Nickel (MG/L)		U	0.01		0.1
Field Blank	6/15/11	Nitrogen, Nitrate (MG/L)		U	0.013	10	10
Field Blank	6/15/11	Nitrogen, Nitrite (MG/L)		U	0.014	1	
Field Blank	6/15/11	Potassium (MG/L)		U	0.5		
Field Blank	6/15/11	Selenium (MG/L)		U	0.015		0.1
Field Blank	6/15/11	Silver (MG/L)		U	0.003		0.05

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Well ID	Sample Date	Parameter	Result	Qualifier	Reporting Limit	MCL	Class I ILGWQS
Field Blank	6/15/11	Sodium (MG/L)		U	5		
Field Blank	6/15/11	Sulfate (MG/L)		U	1		400
Field Blank	6/15/11	Sulfide (UG/L)		U	1000		
Field Blank	6/15/11	Thallium (MG/L)		U	0.001	0.002	0.002
Field Blank	6/15/11	Total Cyanide (MG/L)		U	0.02	200	200
Field Blank	6/15/11	Total Dissolved Solids (MG/L)	10		10		1200
Field Blank	6/15/11	Total Suspended Solids (MG/L)		U	4		
Field Blank	6/15/11	Vanadium (MG/L)		U	0.05		
Field Blank	6/15/11	Zinc (MG/L)	0.0049	J B	0.02		5
Field Blank	6/15/11	1,1,1-Trichloroethane (UG/L)		U	1	200	200
Field Blank	6/15/11	1,1,2,2-Tetrachloroethane (UG/L)		U	1		
Field Blank	6/15/11	1,1,2-Trichloroethane (UG/L)		U	1	5	5
Field Blank	6/15/11	1,1-Dichloroethane (UG/L)		U	1		
Field Blank	6/15/11	1,1-Dichloroethene (UG/L)		U	1	7	7
Field Blank	6/15/11	1,2-Dichloroethane (UG/L)		U	1	5	5
Field Blank	6/15/11	1,2-Dichloroethene, Total (UG/L)		U	2		
Field Blank	6/15/11	1,2-Dichloropropane (UG/L)		U	1	5	5
Field Blank	6/15/11	2-Hexanone (UG/L)		U	10		
Field Blank	6/15/11	4-Methyl-2-pentanone (UG/L)		U	5		
Field Blank	6/15/11	Acetone (UG/L)		U	5		
Field Blank	6/15/11	Benzene (UG/L)		U	1	5	5
Field Blank	6/15/11	Bromodichloromethane (UG/L)		U	1		
Field Blank	6/15/11	Bromoform (UG/L)		U	1		
Field Blank	6/15/11	Bromomethane (UG/L)		U	1		
Field Blank	6/15/11	Carbon disulfide (UG/L)		U	5		
Field Blank	6/15/11	Carbon tetrachloride (UG/L)		U	1	5	5
Field Blank	6/15/11	Chlorobenzene (UG/L)		U	1	100	100
Field Blank	6/15/11	Chloroethane (UG/L)		U	1		
Field Blank	6/15/11	Chloroform (UG/L)		U	1		
Field Blank	6/15/11	Chloromethane (UG/L)		U	1		
Field Blank	6/15/11	cis-1,3-Dichloropropene (UG/L)		U	1		
Field Blank	6/15/11	Dibromochloromethane (UG/L)		U	1		
Field Blank	6/15/11	Ethylbenzene (UG/L)		U	1	700	700
Field Blank	6/15/11	Methylene Chloride (UG/L)		U	2	5	5
Field Blank	6/15/11	Styrene (UG/L)		U	1	100	100
Field Blank	6/15/11	Tetrachloroethene (UG/L)		U	1	5	5
Field Blank	6/15/11	Toluene (UG/L)		U	1	1000	1000
Field Blank	6/15/11	Total Organic Carbon (MG/L)		U	1		
Field Blank	6/15/11	trans-1,3-Dichloropropene (UG/L)		U	1		

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Well ID	Sample Date	Parameter	Result	Qualifier	Reporting Limit	MCL	Class I ILGWQS
Field Blank	6/15/11	Trichloroethene (UG/L)		U	1	5	5
Field Blank	6/15/11	Vinyl chloride (UG/L)		U	1	2	2
Field Blank	6/15/11	Xylenes, Total (UG/L)		U	3	10000	10000
Trip Blank	6/14/11	2-Butanone (UG/L)		U	5		
Trip Blank	6/14/11	1,1,1-Trichloroethane (UG/L)		U	1	200	200
Trip Blank	6/14/11	1,1,2,2-Tetrachloroethane (UG/L)		U	1		
Trip Blank	6/14/11	1,1,2-Trichloroethane (UG/L)		U	1	5	5
Trip Blank	6/14/11	1,1-Dichloroethane (UG/L)		U	1		
Trip Blank	6/14/11	1,1-Dichloroethene (UG/L)		U	1	7	7
Trip Blank	6/14/11	1,2-Dichloroethane (UG/L)		U	1	5	5
Trip Blank	6/14/11	1,2-Dichloroethene, Total (UG/L)		U	2		
Trip Blank	6/14/11	1,2-Dichloropropane (UG/L)		U	1	5	5
Trip Blank	6/14/11	2-Hexanone (UG/L)		U	10		
Trip Blank	6/14/11	4-Methyl-2-pentanone (UG/L)		U	5		
Trip Blank	6/14/11	Acetone (UG/L)		U	5		
Trip Blank	6/14/11	Benzene (UG/L)		U	1	5	5
Trip Blank	6/14/11	Bromodichloromethane (UG/L)		U	1		
Trip Blank	6/14/11	Bromoform (UG/L)		U	1		
Trip Blank	6/14/11	Bromomethane (UG/L)		U	1		
Trip Blank	6/14/11	Carbon disulfide (UG/L)		U	5		
Trip Blank	6/14/11	Carbon tetrachloride (UG/L)		U	1	5	5
Trip Blank	6/14/11	Chlorobenzene (UG/L)		U	1	100	100
Trip Blank	6/14/11	Chloroethane (UG/L)		U	1		
Trip Blank	6/14/11	Chloroform (UG/L)		U	1		
Trip Blank	6/14/11	Chloromethane (UG/L)		U	1		
Trip Blank	6/14/11	cis-1,3-Dichloropropene (UG/L)		U	1		
Trip Blank	6/14/11	Dibromochloromethane (UG/L)		U	1		
Trip Blank	6/14/11	Ethylbenzene (UG/L)		U	1	700	700
Trip Blank	6/14/11	Methylene Chloride (UG/L)		U	2	5	5
Trip Blank	6/14/11	Styrene (UG/L)		U	1	100	100
Trip Blank	6/14/11	Tetrachloroethene (UG/L)		U	1	5	5
Trip Blank	6/14/11	Toluene (UG/L)		U	1	1000	1000
Trip Blank	6/14/11	trans-1,3-Dichloropropene (UG/L)		U	1		
Trip Blank	6/14/11	Trichloroethene (UG/L)		U	1	5	5
Trip Blank	6/14/11	Vinyl chloride (UG/L)		U	1	2	2
Trip Blank	6/14/11	Xylenes, Total (UG/L)		U	3	10000	10000
Trip Blank	6/15/11	2-Butanone (UG/L)		U	5		
Trip Blank	6/15/11	1,1,1-Trichloroethane (UG/L)		U	1	200	200
Trip Blank	6/15/11	1,1,2,2-Tetrachloroethane (UG/L)		U	1		

Appendix E
Elgin Landfill
Quality Control Analytical Data

Well ID	Sample Date	Parameter	Result	Qualifier	Reporting Limit	MCL	Class I ILGWQS
Trip Blank	6/15/11	1,1,2-Trichloroethane (UG/L)		U	1	5	5
Trip Blank	6/15/11	1,1-Dichloroethane (UG/L)		U	1		
Trip Blank	6/15/11	1,1-Dichloroethene (UG/L)		U	1	7	7
Trip Blank	6/15/11	1,2-Dichloroethane (UG/L)		U	1	5	5
Trip Blank	6/15/11	1,2-Dichloroethene, Total (UG/L)		U	2		
Trip Blank	6/15/11	1,2-Dichloropropane (UG/L)		U	1	5	5
Trip Blank	6/15/11	2-Hexanone (UG/L)		U	10		
Trip Blank	6/15/11	4-Methyl-2-pentanone (UG/L)		U	5		
Trip Blank	6/15/11	Acetone (UG/L)		U	5		
Trip Blank	6/15/11	Benzene (UG/L)		U	1	5	5
Trip Blank	6/15/11	Bromodichloromethane (UG/L)		U	1		
Trip Blank	6/15/11	Bromoform (UG/L)		U	1		
Trip Blank	6/15/11	Bromomethane (UG/L)		U	1		
Trip Blank	6/15/11	Carbon disulfide (UG/L)		U	5		
Trip Blank	6/15/11	Carbon tetrachloride (UG/L)		U	1	5	5
Trip Blank	6/15/11	Chlorobenzene (UG/L)		U	1	100	100
Trip Blank	6/15/11	Chloroethane (UG/L)		U	1		
Trip Blank	6/15/11	Chloroform (UG/L)		U	1		
Trip Blank	6/15/11	Chloromethane (UG/L)		U	1		
Trip Blank	6/15/11	cis-1,3-Dichloropropene (UG/L)		U	1		
Trip Blank	6/15/11	Dibromochloromethane (UG/L)		U	1		
Trip Blank	6/15/11	Ethylbenzene (UG/L)		U	1	700	700
Trip Blank	6/15/11	Methylene Chloride (UG/L)		U	2	5	5
Trip Blank	6/15/11	Styrene (UG/L)		U	1	100	100
Trip Blank	6/15/11	Tetrachloroethene (UG/L)		U	1	5	5
Trip Blank	6/15/11	Toluene (UG/L)		U	1	1000	1000
Trip Blank	6/15/11	trans-1,3-Dichloropropene (UG/L)		U	1		
Trip Blank	6/15/11	Trichloroethene (UG/L)		U	1	5	5
Trip Blank	6/15/11	Vinyl chloride (UG/L)		U	1	2	2
Trip Blank	6/15/11	Xylenes, Total (UG/L)		U	3	10000	10000
Trip Blank	6/16/11	2-Butanone (UG/L)		U	5		
Trip Blank	6/16/11	1,1,1-Trichloroethane (UG/L)		U	1	200	200
Trip Blank	6/16/11	1,1,2,2-Tetrachloroethane (UG/L)		U	1		
Trip Blank	6/16/11	1,1,2-Trichloroethane (UG/L)		U	1	5	5
Trip Blank	6/16/11	1,1-Dichloroethane (UG/L)		U	1		
Trip Blank	6/16/11	1,1-Dichloroethene (UG/L)		U	1	7	7
Trip Blank	6/16/11	1,2-Dichloroethane (UG/L)		U	1	5	5
Trip Blank	6/16/11	1,2-Dichloroethene, Total (UG/L)		U	2		
Trip Blank	6/16/11	1,2-Dichloropropane (UG/L)		U	1	5	5

Appendix E
Elgin Landfill
Quality Control Analytical Data

Well ID	Sample Date	Parameter	Result	Qualifier	Reporting Limit	MCL	Class I ILGWQS
Trip Blank	6/16/11	2-Hexanone (UG/L)		U	10		
Trip Blank	6/16/11	4-Methyl-2-pentanone (UG/L)		U	5		
Trip Blank	6/16/11	Acetone (UG/L)		U	5		
Trip Blank	6/16/11	Benzene (UG/L)		U	1	5	5
Trip Blank	6/16/11	Bromodichloromethane (UG/L)		U	1		
Trip Blank	6/16/11	Bromoform (UG/L)		U	1		
Trip Blank	6/16/11	Bromomethane (UG/L)		U	1		
Trip Blank	6/16/11	Carbon disulfide (UG/L)		U	5		
Trip Blank	6/16/11	Carbon tetrachloride (UG/L)		U	1	5	5
Trip Blank	6/16/11	Chlorobenzene (UG/L)		U	1	100	100
Trip Blank	6/16/11	Chloroethane (UG/L)		U	1		
Trip Blank	6/16/11	Chloroform (UG/L)		U	1		
Trip Blank	6/16/11	Chloromethane (UG/L)		U	1		
Trip Blank	6/16/11	cis-1,3-Dichloropropene (UG/L)		U	1		
Trip Blank	6/16/11	Dibromochloromethane (UG/L)		U	1		
Trip Blank	6/16/11	Ethylbenzene (UG/L)		U	1	700	700
Trip Blank	6/16/11	Methylene Chloride (UG/L)		U	2	5	5
Trip Blank	6/16/11	Styrene (UG/L)		U	1	100	100
Trip Blank	6/16/11	Tetrachloroethene (UG/L)		U	1	5	5
Trip Blank	6/16/11	Toluene (UG/L)		U	1	1000	1000
Trip Blank	6/16/11	trans-1,3-Dichloropropene (UG/L)		U	1		
Trip Blank	6/16/11	Trichloroethene (UG/L)		U	1	5	5
Trip Blank	6/16/11	Vinyl chloride (UG/L)		U	1	2	2
Trip Blank	6/16/11	Xylenes, Total (UG/L)		U	3	10000	10000

Notes:
Chloride and metals concentrations are total.
MCL = US EPA Maximum Contaminant Level.
ILGWQS = Illinois Class I Groundwater Quality Standard.
Laboratory analyses performed by TestAmerica Buffalo.
Nitrate and nitrite analysis performed by Heritage Environmental Services.

Bold indicates exceedance of ILGWQS.

Italics indicates exceedance of MCL.

Bold and italics indicates exceedance of both the MCL and ILGWQS.

Qualifiers:
B = Compound was found in the blank and sample.
J = Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
H = Sample was prepped or analyzed beyond the specified holding time.
^ = ICV, CCV, ICB, CCB, ISA, ISB, CRI, CRA, DLCK or MRL standard: Instrument related QC exceeds the control limits.
* = RPD of the LCS and LCSD exceeds the control limits.
U = Indicates compound/element was analyzed for, but not detected.

APPENDIX F

Laboratory Data QC Checklists

Data Quality Control Checklist

Date:	02/07/2012
Validator Name:	Gary Sterkel
Client:	Waste Management
Facility:	Tri County Landfill
Event:	Annual 2011 Groundwater Monitoring Event
Laboratory:	TestAmerica Buffalo
Sampling Dates:	June 17 – June 20, 2011
Job Number:	480-6300-1

	Yes	No	NA
Were the correct analytical methodologies used?	X		

	Yes	No	NA
Were holding times for analytical samples met?			

	VOC	14 days	X	
	SVOC	7 days pre-extraction, 40 days post-extraction	X	
	Alkalinity	14 days	X	
	Sulfide	7 days	X	
	Chloride	28 days	X	
	Cyanide, Total	14 days	X	
	Nitrogen, Nitrate	48 hours	X	
	Nitrogen, Nitrite	48 hours	X	
	TDS/TSS	7 days	X	
	Metals, Total	6 Months	X	
	TOC	28 days	X	
	Sulfate	28 days	X	

	Yes	No	NA
Were contaminants detected in the laboratory or field blanks?	X		

- Reported analytes and concentrations not expected to materially impact data quality

	Yes	No	NA
Were surrogate recoveries within the appropriate control ranges?	X		

	Yes	No	NA
Were laboratory control spikes within the appropriate control ranges?	X		

- See attached

	Yes	No	NA
Were field duplicate samples within 20% relative percent difference of the primary samples for all tested analytes?		X	

- Criteria generally met for analytes quantified at concentrations significantly above reporting limits. Higher RPDs typical when comparing non-detect or low concentrations. Not expected to materially impact data quality.

Receipt
Two trip blanks were submitted for analysis with these samples; however, they were not listed on the Chain-of-Custodies (COC).

All other samples were received in good condition within temperature requirements.

GC/MS VOA
Method 8260B: The following samples submitted for volatiles analysis were received with insufficient preservation (pH >2): (480-6300-1), MW12SR (480-6300-2), FIELD BLANK01 (480-6300-3), MW12IR MW13IR (480-6300-4), MW13IR (480-6300-4 MS), MW13IR (480-6300-4 MSD), TRIP BLANK (480-6300-5). Analysis occurred after the seven day holding time for unpreserved volatiles samples.

No other analytical or quality issues were noted.

GC/MS Semi VOA
Method 8270C: The surrogate recovery for 2,4,6-Tribromophenol was outside acceptance limits for the following matrix spike duplicate, MW13IR (480-6300-4 MSD). The parent sample's surrogate recovery was within limits. The MSD sample has been qualified and reported.

Method 8270C: The surrogate recovery of Nitrobenzene-d5 was outside control limits for the following quality control method blank (MB): (MB 480-21485/1-A). Re-extraction and re-analysis of associated samples was required. The was was re-extracted outside of the preparation holding time and re-analyzed. Both sets of data are reported.

Method 8270C: The internal standards (ISTDs) responses for the following continuing calibation verifications (CCVs) were outside of acceptance limits for retention time (RT): (CCVIS 480-21920/2) and (CCVIS 480-22821/2). Due daily instrument maintenance, the RT of the CCV may be outside on control limits in reference to the initial calibration mid-point; however, the samples must be within RT limits in reference to the CCV. There was no impact on the data.

Method 8270C: The following compound was outside control limits in the continuing calibration verifications (CCVs) associated with analytical batches 21920 and 22821: 2,2'-oxybis[1-chloropropane]. This compound is not classified as a Calibration Check Compound (CCC) in the reference method, and the laboratory defaults to in-house and/or project-specific criteria for evaluation. Due to the large number of analytes contained in the CCV, the laboratory's SOP allows for four analytes to be outside limits; therefore, the data have been reported.

Method 8270C: The following compounds were outside control limits in the continuing calibration verification (CCV) associated with analytical batch 21469: 4-Nitrophenol and 2,4,6-Tribromophenol. These compounds are not classified as Calibration Check Compounds (CCCs) in the reference method, and the laboratory defaults to in-house and/or project-specific criteria for evaluation. Due to the large number of analytes contained in the CCV, the laboratory's SOP allows for four analytes to be outside limits; therefore, the data have been reported.

No other analytical or quality issues were noted.

IC
Method 300.0: The following samples were diluted due to the abundance of target analytes: MW13IR (480-6300-4), MW13IR (480-6300-4 MS), MW13IR (480-6300-4 MSD), MW6S (480-6328-1), (480-6328-1 MS) and DUP1 (480-6328-2). Elevated reporting limits (RLs) are provided.

No other analytical or quality issues were noted.

Metals
Method 6010B: The Arsenic value obtained for sample MW6S (480-6328-1) was inconsistent with historical trends. Reanalysis was performed and the value was confirmed. Only the result from the original analysis was provided in this data package.

Method 6010B: The Arsenic, Iron and Manganese values obtained for sample DUP1 (480-6328-2) were inconsistent with historical trends. Reanalysis was performed and the values were confirmed. Only the results from the original analysis were provided in this data package.

Method 6010B: The Arsenic value obtained for sample MW12SR (480-6300-2) was inconsistent with historical trends. Reanalysis was performed and the value was confirmed. Only the result from the original analysis was provided in this data package.

Method 6010B: The Chromium and Copper values obtained for sample MW12IR (480-6300-1) were inconsistent with historical trends. Reanalysis was performed and the values were confirmed. Only the results from the original analysis were provided in this data package.

Method 6010B: The post spike (480-6300-4 PDS) exhibited a result outside the quality control limits for Sodium. However, the serial

dilution was compliant for this analyte. Therefore, no corrective action was necessary

No other analytical or quality issues were noted.

General Chemistry
Method SM 2540C: The results reported for the following sample did not concur with historical results previously reported for this site: MW12IR (480-6300-1). The sample was reanalyzed with confirming results. Only the original result was reported.

Method SM 2540C: The following sample had a dilution applied during the preparation portion of the procedure: MW12IR (480-6300-1). The dilution factor (DF) presented on the final report represents only the analytical dilution, not the dilution factor applied in the preparation batch.

Method SM 4500 S2 F: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for batch 21580 were outside control limits. The associated laboratory control sample (LCS) recovery met acceptance criteria; therefore, no corrective action was necessary.

Method SM 5310D: The results reported for the following sample did not concur with historical results previously reported for this site: MW12IR (480-6300-1). The sample was reanalyzed with confirming results. Only the original result was reported.

No other analytical or quality issues were noted.

Organic Prep
Method 3510C: Re-extracion of the following samples was performed outside of the preparation holding time for analysis by method 8270C: MW6S (480-6328-1) and DUP1 (480-6328-2).

No other analytical or quality issues were noted.

Data Quality Control Checklist

Date:	02/07/2012
Validator Name:	Gary Sterkel
Client:	Waste Management
Facility:	Tri-County Landfill
Event:	Annual 2011 Groundwater Monitoring Event
Laboratory:	TestAmerica Buffalo
Sampling Dates:	June 17 – June 23, 2011
Job Numbers:	480-6299-1

	Yes	No	NA
Were the correct analytical methodologies used?	X		

	Yes	No	NA
Were holding times for analytical samples met?			
Alkalinity — 14 days	X		
Sulfide — 7 days	X		
Chloride — 28 days	X		
Nitrogen, Nitrate — 48 hours	X		
Nitrogen, Nitrite — 48 hours	X		
TDS/TSS — 7 days	X		
TOC — 28 days	X		
Sulfate — 28 days	X		

	Yes	No	NA
Were contaminants detected in the laboratory or field blanks?		X	

	Yes	No	NA
Were surrogate recoveries within the appropriate control ranges?			X

- Surrogate recovery analysis not performed on identified analytes.

	Yes	No	NA
Were laboratory control spikes within the appropriate control ranges?	X		

	Yes	No	NA
Were field duplicate samples within 20% relative percent difference of the primary samples for all tested analytes?			X

- No duplicate associated with the samples in this delivery group.

Job Narrative
480-6299-1

Receipt
All samples were received in good condition within temperature requirements.

IC
Method 300.0: The following sample was diluted due to the abundance of the target analyte Chloride: G112 (480-6299-1). Elevated reporting limits (RLs) are provided.

Method 300.0: The following sample was diluted due to the abundance of non-target analytes: G112 (480-6299-1). Elevated reporting limits (RLs) are provided.

No other analytical or quality issues were noted.

General Chemistry
No analytical or quality issues were noted.

Data Quality Control Checklist

Date:	02/07/2012
Validator Name:	Gary Sterkel
Client:	Waste Management
Facility:	Tri-County Landfill
Event:	Annual 2011 Groundwater Monitoring Event
Laboratory:	TestAmerica Buffalo
Sampling Dates:	June 14 – June 23, 2011
Job Numbers:	480-6101-1, 480-6252-1, 480-6253-1

	Yes	No	NA
Were the correct analytical methodologies used?	X		

Were holding times for analytical samples met?		Yes	No	NA
VOC	14 days	X		
Alkalinity	14 days	X		
Sulfide	7 days	X		
Chloride	28 days	X		
Cyanide, Total	14 days	X		
Nitrogen, Nitrate	48 hours	X		
Nitrogen, Nitrite	48 hours	X		
TDS/TSS	7 days	X		
Metals, Total	6 months	X		
TOC	28 days	X		
Sulfate	28 days	X		

	Yes	No	NA
Were contaminants detected in the laboratory or field blanks?	X		

- Reported analytes and concentrations not expected to materially impact data quality.

	Yes	No	NA
Were surrogate recoveries within the appropriate control ranges?	X		

	Yes	No	NA
Were laboratory control spikes within the appropriate control ranges?	X		

- See attached. Not expected to materially impact data quality.

	Yes	No	NA
Were field duplicate samples within 20% relative percent difference of the primary samples for all tested analytes?		X	

- Criteria generally met for analytes quantified at concentrations significantly above reporting limits. Higher RPDs typical when comparing non-detect or low concentrations. Not expected to materially impact data quality.

Receipt
Trip blanks were submitted for analysis with the samples logged in under jobs 480-6101-1, 480-6206-1, 480-6301-1 and 480-7117-1; however, they were not listed on the Chain-of-Custodys (COCs).

All other samples were received in good condition within temperature requirements.

GC/MS VOA
Method 8260B: The following sample submitted for volatiles analysis was received with insufficient preservation (pH >2): TRIP BLANK (480-6301-4). Analysis occurred after the seven day holding time for unpreserved volatiles samples.

Method 8260B: The matrix spike duplicate (MSD) recoveries for batch 21210 were outside control limits. The associated laboratory control sample (LCS) recovery met acceptance criteria; therefore no corrective action was necessary.

Method 8260B: The following compound was outside control limits in the continuing calibration verification (CCV) associated with batch 20662: Bromomethane. These compounds are not classified as Calibration Check Compounds (CCCs) in the reference method, and the laboratory defaults to in-house and/or project-specific criteria for evaluation. Due to the large number of analytes contained in the CCV, the laboratory's SOP allows for six analytes to be outside limits; therefore, the data have been reported.

No other analytical or quality issues were noted.

IC
Method 300.0: The following samples were diluted due to the abundance of the target analyte Chloride: G142 (480-6101-1), MW39I (480-6101-3), (480-6101-3 MS), (480-6206-2 MS), MW41S (480-6206-5), MW41S(480-6206-5 MS), MW41S (480-6206-5 MSD), MW5SR (480-6206-6), MW06I (480-6206-8), MW40DR (480-6206-9), PW07 (480-6301-1), PW09 (480-6301-2)and PW23 (480-6301-3). Elevated reporting limits (RLs) are provided.

Method 300.0: The following samples were diluted due to the abundance of the target analyte Sulfate: G142 (480-6101-1), MW39I (480-6101-3), (480-6101-3 MS), MW2SR (480-6101-4), DUP2 (480-6206-2), (480-6206-2 MS), MW41S (480-6206-5), MW41S(480-6206-5 MS), MW41S (480-6206-5 MSD), MW5SR (480-6206-6) and PW09 (480-6301-2). Elevated reporting limits (RLs) are provided.

No other analytical or quality issues were noted.

Metals
Method 6010B: The Iron value obtained for sample MW5SR (480-6206-6) was inconsistent with historical trends. Reanalysis was performed and the value was confirmed. Only the result from the original analysis was provided in this data package.

Method 6010B: The Cobalt, Lead, Potassium and Zinc values obtained for sample PW07 (480-6301-1) were inconsistent with historical trends . Reanalysis was performed and these values were confirmed. Only the results from the original analysis were provided in this data package.

Method 6010B: The Manganese value obtained for sample PW23 (480-6301-3) was inconsistent with historical trends. Reanalysis was performed and the value was confirmed. Only the result from the original analysis was provided in this data package.

Method 6010B: The method blank for preparation batch 20525 contained Potassium above the client detection limit. This target analyte concentration was less than the standard reporting limit (RL); therefore, re-extraction and/or re-analysis of the associated samples was not performed.

Method 6020: Due to interference with the sample matrix, the following samples were analyzed at a dilution: MW10I (480-6206-7), MW06I (480-6206-8), MW40DR (480-6206-9) and MW5IR (480-6206-10). Elevated reporting limits (RLs) are provided.

No other analytical or quality issues were noted.

General Chemistry
Method SM 2540C: The following samples had a dilution applied during the preparation portion of the procedure: G142 (480-6101-1) and DUP1 (480-6101-2) and PW07 (480-6301-1). The dilution factor (DF) presented on the final report represents only the analytical dilution, not the dilution factor applied in the preparation batch.

Method SM 2540D: The following samples had a dilution applied during the preparation portion of the procedure: MW06I (480-6206-8). The dilution factor (DF) presented on the final report represents only the analytical dilution, not the dilution factor applied in the preparation batch.

Method SM 5310D: The matrix spike / matrix spike duplicate (MS/MSD) precision, or the relative percent difference (RPD), for batch 21978 was outside control limits. The individual matrix spike recoveries were within acceptance limits. The associated laboratory control sample (LCS) was compliant; therefore, no corrective action was necessary.

Method SM 5310D: Sample result were confirmed by reanalysis for the following samples: MW39I (480-6101-3), MW39S (480-6101-7), DUP2 (480-6206-2), MW41S (480-6206-5), MW5SR (480-6206-6), MW10I (480-6206-7), MW06I (480-6206-8), MW40DR (480-6206-9) and MW5IR (480-6206-10).

No other analytical or quality issues were noted.

Comments
No additional comments.

Receipt
A trip blank was submitted for analysis with these samples; however, it was not listed on the Chain-of-Custody (COC).

All other samples were received in good condition within temperature requirements.

GC/MS VOA
Method(s) 8260B: The following compounds were outside control limits in the continuing calibration verification (CCV) associated with batch 21414: Acrolein. These compounds are not classified as Calibration Check Compounds (CCCs) in the reference method, and the laboratory defaults to in-house and/or project-specific criteria for evaluation. Due to the large number of analytes contained in the CCV, the laboratory's SOP allows for six analytes to be outside limits; therefore, the data have been reported.

Method(s) 8260B: The following sample(s) submitted for volatiles analysis was received with insufficient preservation (pH >2): MW1I1 (480-6252-1), MW1I2 (480-6252-2), TRIP BLANK (480-6252-3). Samples analyzed outside 7 days.

No other analytical or quality issues were noted.

HPLC
Method(s) 300.0: In batch 21619 the following samples were diluted due to the abundance of target analytes: MW1I1 (480-6252-1), MW1I2 (480-6252-2). Elevated reporting limits (RLs) are provided.

No other analytical or quality issues were noted.

General Chemistry
No analytical or quality issues were noted.

Job Narrative
480-6253-1

Receipt
All samples were received in good condition within temperature requirements.

GC/MS VOA
Method 8260B: The following sample submitted for volatiles analysis was received with insufficient preservation (pH >2): MW1DR (480-6253-1). The sample was analyzed outside 7 days.

No other analytical or quality issues were noted.

IC
No analytical or quality issues were noted.

General Chemistry
No analytical or quality issues were noted.

Data Quality Control Checklist

Date:	02/07/2012
Validator Name:	Gary Sterkel
Client:	Republic Services Inc.
Facility:	Elgin Landfill
Event:	Annual 2011 Groundwater Monitoring Event
Laboratory:	TestAmerica Buffalo and Heritage Environmental Services, LLC
Sampling Dates:	June 14 – June 16, 2011
Sample Delivery Group:	6145
Job Numbers:	480-6145-1

	Yes	No	NA
Were the correct analytical methodologies used?	X		

	Yes	No	NA
Were holding times for analytical samples met?			

VOC	14 days	X	
SVOC	7 days pre-extraction, 40 days post-extraction	X	
Alkalinity	14 days	X	
Sulfide	7 days	X	
Chloride	28 days	X	
Cyanide, Total	14 days	X	
Nitrogen, Nitrate	48 hours	X	
Nitrogen, Nitrite	48 hours	X	
TDS/TSS	7 days	X	
Metals, Total	6 Months	X	
TOC	28 days	X	
Sulfate	28 days	X	

	Yes	No	NA
Were contaminants detected in the laboratory or field blanks?	X		

- Reported analytes and concentrations not expected to materially impact data quality. Most analytes also identified in method blank.

	Yes	No	NA
Were surrogate recoveries within the appropriate control ranges?	X		

	Yes	No	NA
Were laboratory control spikes within the appropriate control ranges?	X		

- See attached

	Yes	No	NA
Were field duplicate samples within 20% relative percent difference of the primary samples for all tested analytes?		X	

- Criteria generally met for analytes quantified at concentrations significantly above reporting limits. Higher RPDs typical when comparing non-detect or low concentrations. Not expected to materially impact data quality.

Comments
No additional comments.

Receipt
All samples were received in good condition within temperature requirements.

GC/MS VOA
Method(s) 8260B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for batch 21195 were outside control limits. The associated laboratory control sample (LCS) recovery met acceptance criteria.

No other analytical or quality issues were noted.

GC/MS Semi VOA
Method(s) 3510C, 8270C: The laboratory control sample duplicate (LCSD) for preparation batch 480-22033 exceeded control limits for the following analyte: 1,2,4-Trichlorobenzene. Corrective action is required; however, insufficient volume remains for the following samples: (LCSD 480-22033/3-A), EL-GWMW22I-10 (480-6199-7), EL-GWMW23I-10 (480-6199-8). The data have been qualified and reported.

Method(s) 8270C: The laboratory control sample duplicate (LCSD) for preparation batch 480-20943 exceeded control limits for the following analytes: 1,2,4-Trichlorobenzene and Hexachlorobutadiene. Re-extraction and re-analysis of the associated samples is required.

Method(s) 8270C: The %RPD of the laboratory control sample (LCS) and laboratory control standard duplicate (LCSD) for preparation batch 480-20943 exceeded control limits for the following analyte:2,4-Dinitrophenol. The data have been qualified and reported.

Method(s) 8270C: The %RPD of the laboratory control sample (LCS) and laboratory control standard duplicate (LCSD) for preparation batch 480-22033 exceeded control limits for the following analytes: 1,2,4-Trichlorobenzene, 1,2-Dichlorobenzene, 2-Methylnaphthalene and Hexachlorobutadiene. Corrective action is not required. The data have been qualified and reported.

Method(s) 8270C: Internal standard (ISTD) response for the following sample(s) was outside of acceptance limits for retention time only: (CCVIS 480-22114/2). The sample(s) was not re-analyzed, there is no impact on the data.

No other analytical or quality issues were noted.

IC
Method(s) 300.0: In batch 21053 the following samples were diluted due to the abundance of non-target analytes: DUP-1 (480-6145-1), EL-GWMW36I-10 (480-6145-3). Elevated reporting limits (RLs) are provided.

Method(s) 300.0: In batch 21053 the following sample was diluted due to the abundance of target analytes: EL-GWMW9I-10 (480-6145-8). Elevated reporting limits (RLs) are provided.

Method(s) 300.0: In batch 21224 the following samples were diluted due to the abundance of target analytes: (480-6145-3 MS), DUP-1 (480-6145-1), EL-GWMW36D-10 (480-6145-2), EL-GWMW36I-10 (480-6145-3), EL-GWMW9I-10 (480-6145-8), EL-GWMW9S-10 (480-6145-9). Elevated reporting limits (RLs) are provided.

Method(s) 300.0: In batch 21227 the following samples were diluted due to the abundance of target analytes: EL-GWMW20S-10 (480-6199-3), EL-GWMW21S-10 (480-6199-6), EL-GWMW21S-10 (480-6199-6 MS), EL-GWMW21S-10 (480-6199-6 MSD). Elevated reporting limits (RLs) are provided.

Method(s) 300.0: In batch 21227 the following sample was diluted due to the abundance of non-target analytes: EL-GWMW23I-10 (480-6199-8). Elevated reporting limits (RLs) are provided.

Method(s) 300.0: In batch 21434 the following samples were diluted due to the abundance of target analytes: EL-GWMW21S-10 (480-6199-6), EL-GWMW21S-10 (480-6199-6 MS), EL-GWMW21S-10 (480-6199-6 MSD). Elevated reporting limits (RLs) are provided.

Method(s) 300.0: In batch 21440 the following sample was diluted due to the abundance of target analytes: EL-GWG111-10 (480-6248-2). Elevated reporting limits (RLs) are provided.

Method(s) 300.0: In batch 21619 the following samples were diluted due to the abundance of target analytes: EL-GWG141-10 (480-6248-1). Elevated reporting limits (RLs) are provided.

No other analytical or quality issues were noted.

Metals

Method(s) 6010B: The Matrix Spike Duplicate (MSD) recovery associated with batch 480-20529 was outside control limits for total potassium: EL-GWMW21S-10 (480-6199-6 MSD). Matrix interference is suspected. The Laboratory Control Sample (LCS) was compliant, therefore, no corrective action was necessary.

Method(s) 6010B: The Matrix Spike / Matrix Spike Duplicate (MS/MSD) precision for batch 480-20529 was outside control limits for total magnesium. Non-homogeneity of the sample matrix is suspected. The associated Laboratory Control Sample (LCS) met acceptance criteria, therefore, no corrective action was necessary.

Method(s) 6020: The following samples for ICP/MS metals analyzed by EPA Method 6020 required a dilution due to high concentrations of dissolved solids known to cause failure of routine method quality control (QC), such as internal standards outside of control limits. Samples that contain high levels of dissolved solids can cause significant signal suppression or enhancement. The analytical method recommends applying a dilution to correct for physical interferences of samples that contain greater than 2000 mg/L of total solids. A five fold dilution is applied for every 5000mg/L of TDS present in the sample as indicated by performing a screening procedure. The samples contain TDS values > 5,000 mg/L, therefore dilutions were performed. Elevated reporting limits (RLs) are provided.

Sample ID	TDS screen	Dilution factor
480-6145-C-4	6564ppm	1:5

Method(s) 6020: The Matrix Spike Duplicate (MSD) recoveries for total beryllium in batch 20686 were outside control limits. The associated Laboratory Control Sample (LCS) recovery met acceptance criteria, therefore no corrective action was necessary.

Method(s) 6020: The Continuing Calibration Verification CCV 480-21387/18 recovered above the upper control limit for total beryllium in batch 21387. The samples (MB 480-20857/1-A), EL-GWG141-10 (480-6248-1) associated with this CCV was non-detect for the affected analytes; therefore, the data have been reported.

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Method(s) 6020: The Continuing Calibration Verification CCV 480-21387/18 and CCV 480-21387/30 recovered above the upper control limit for total beryllium in batch 21387. The sample EL-GWG111-10 (480-6248-2) associated with this CCV was non-detect for the affected analytes; therefore, the data have been reported.

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No other analytical or quality issues were noted.

General Chemistry

Method(s) SM 4500 S2 F: The continuing calibration blank associated with batch 20614 contained sulfide above the reporting limit (RL). All other quality controls were acceptable, no further action has been taken

Method(s) SM 2540C: (480-6147-1 DU), 03-198-1 (480-6147-1)This method uses a dilution applied during the preparation portion of the procedure. The dilution factor (DF) presented on the final report represents only the analytical dilution, not the dilution factor applied in the preparation batch.

Method(s) 335.4, 9012A: The laboratory control sample (LCS) and / or laboratory control sample duplicate (LCSD) for batch 20520 exceeded control limits for the following analytes: Total Cyanide. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

Method(s) 335.4: The matrix spike / matrix spike duplicate (MS/MSD) precision for batch 20933 was outside control limits.

Method(s) 335.4: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for batch 20933 were outside control limits. The associated laboratory control sample (LCS) recovery met acceptance criteria.

Method(s) SM 4500 S2 F: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for batch 20613 were outside control limits. The associated laboratory control sample (LCS) recovery met acceptance criteria.

No other analytical or quality issues were noted.

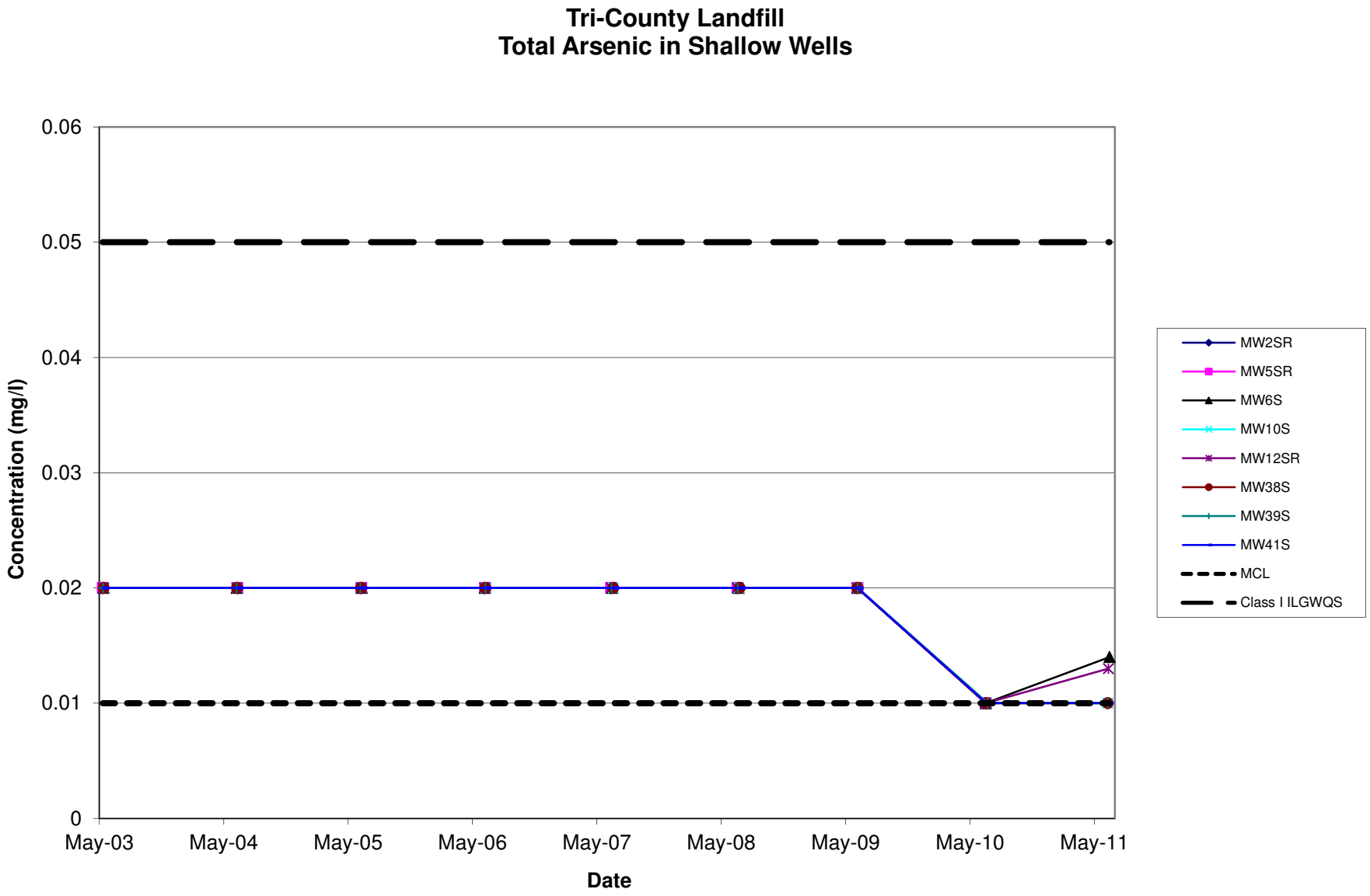
Organic Prep

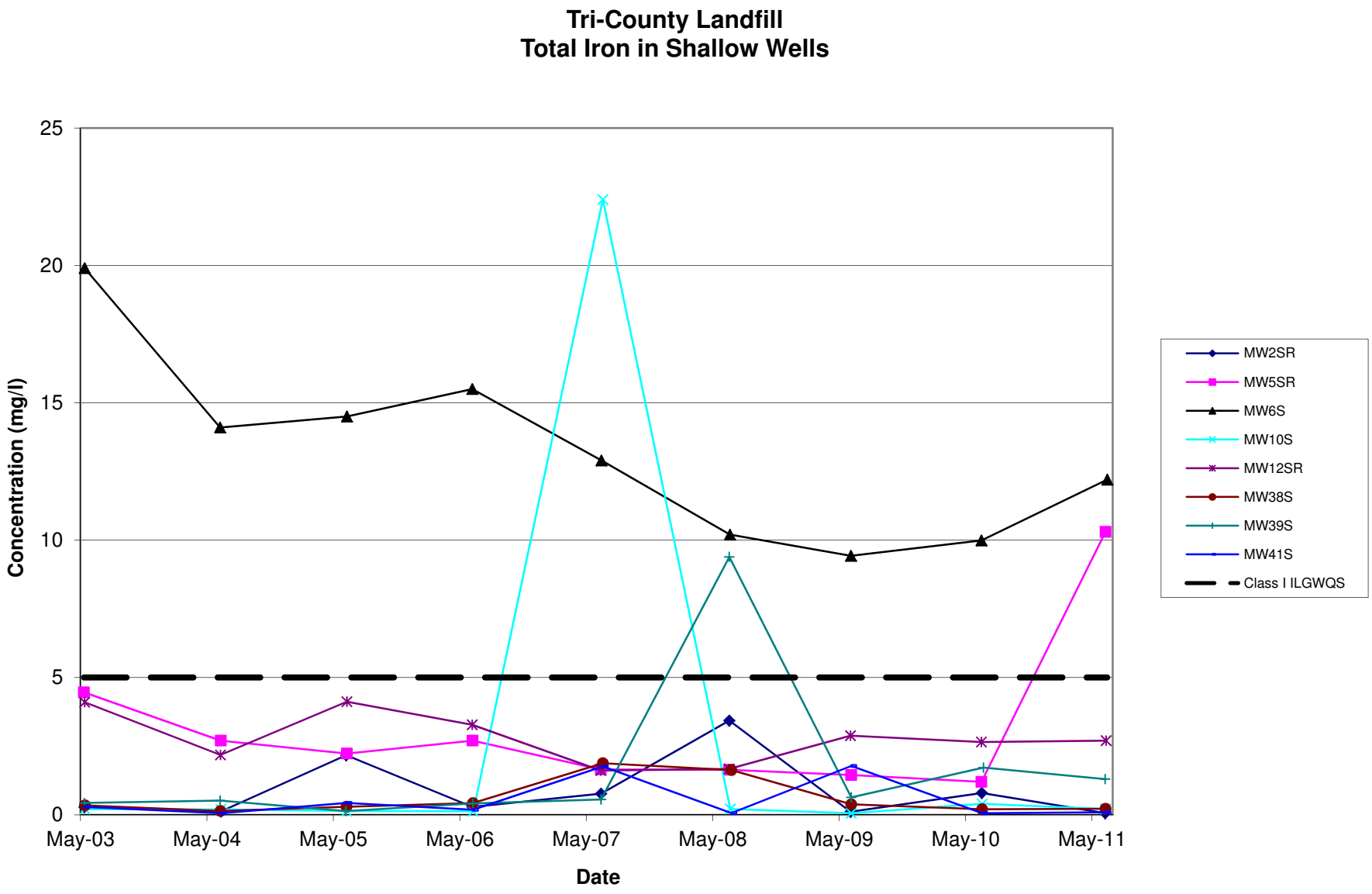
Method(s) 3510C: Re-extraction of the following samples was performed outside of the preparation holding time: EL-GWMW22I-10 (480-6199-7), EL-GWMW23I-10 (480-6199-8).

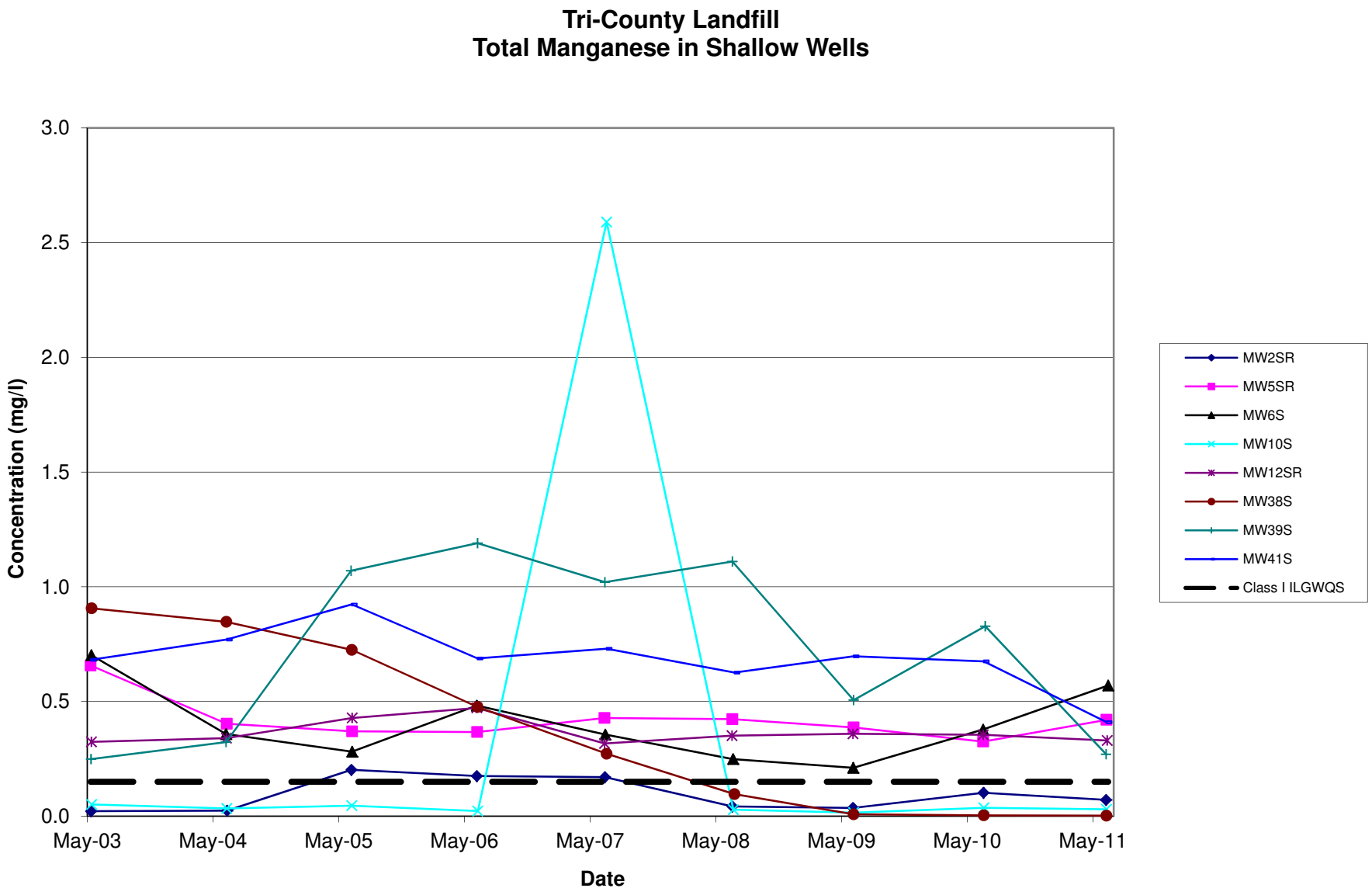
No other analytical or quality issues were noted.

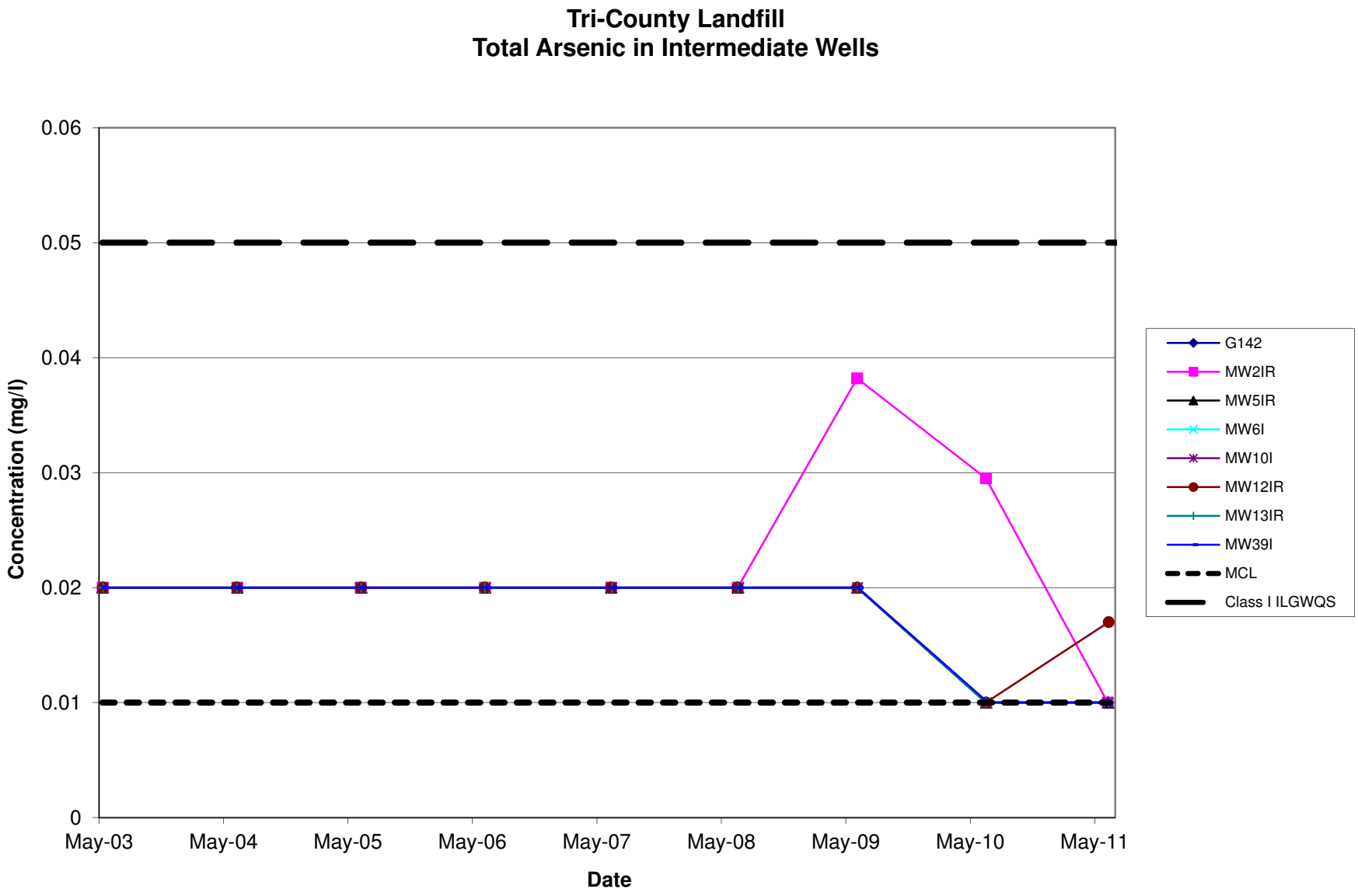
APPENDIX G

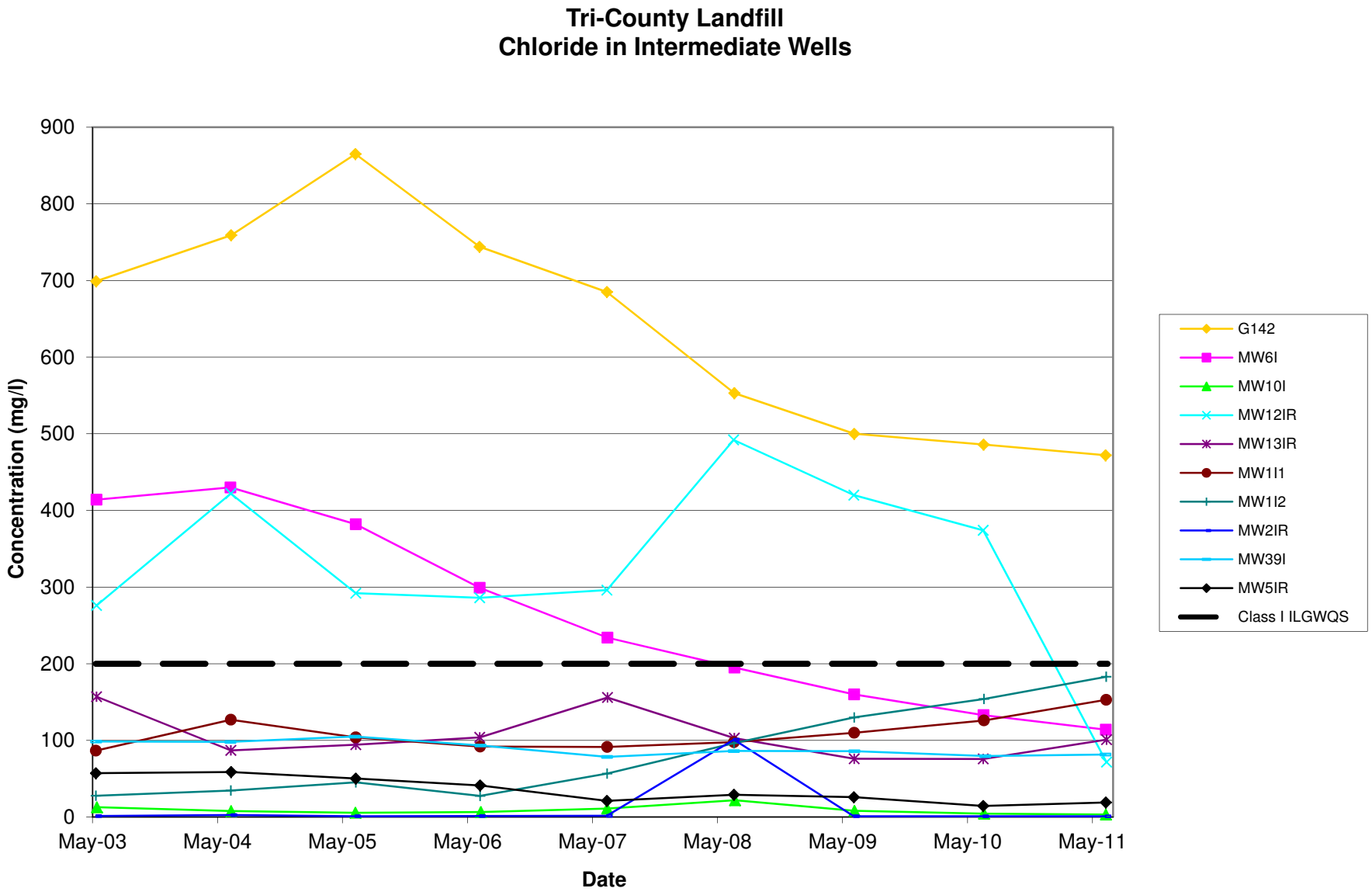
Time-Concentration Plots of Parameters
Exceeding Screening Criteria

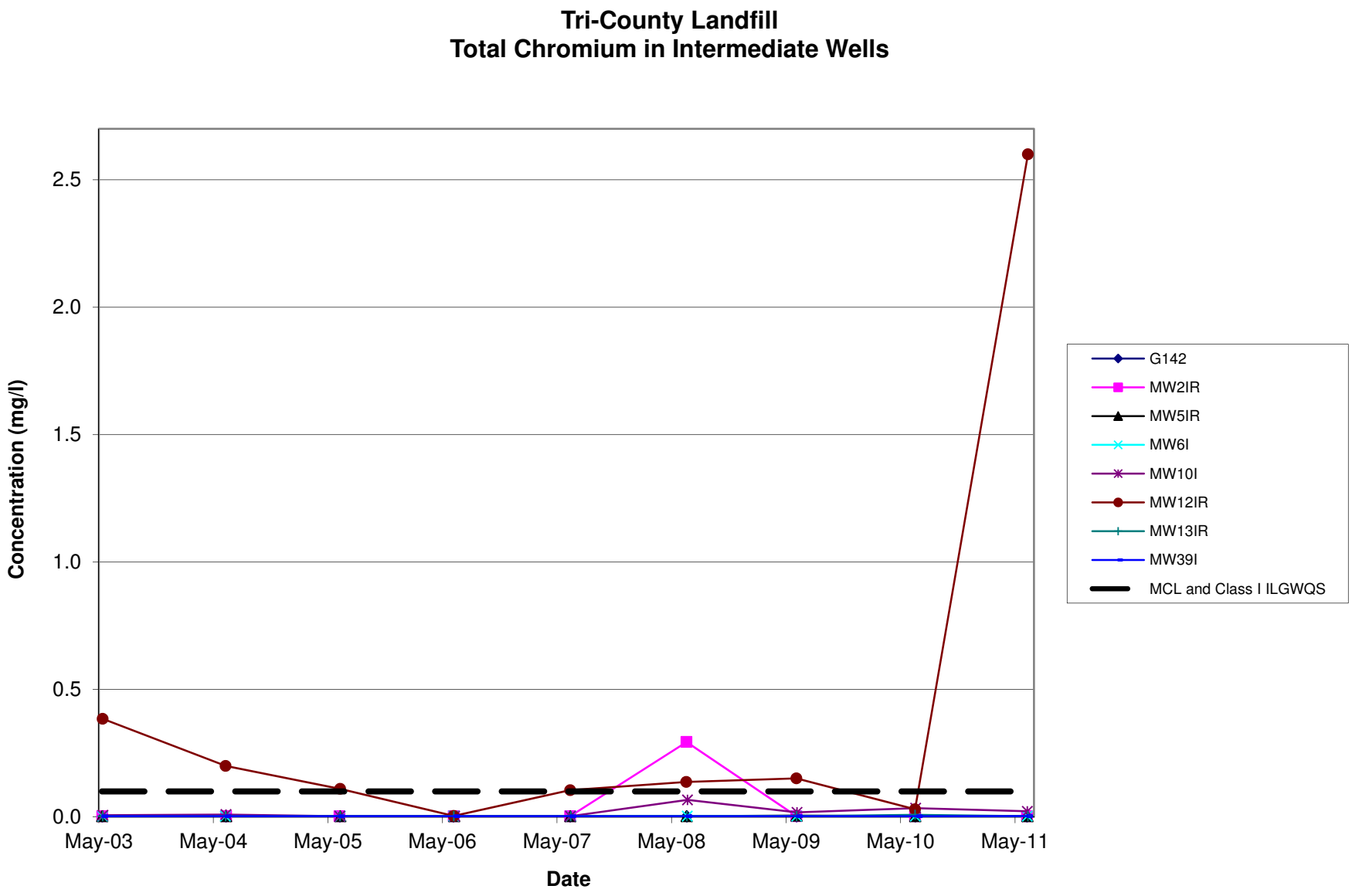

Tri-County Landfill
Total Arsenic in Shallow Wells
Concentration (mg/l)
0.06
0.05
0.04
0.03
0.02
0.01
0
May-03
May-04
May-05
May-06
May-07
May-08
May-09
May-10
May-11
Date
MW2SR
MW5SR
MW6S
MW10S
MW12SR
MW38S
MW39S
MW41S
MCL
Class I ILGWQS

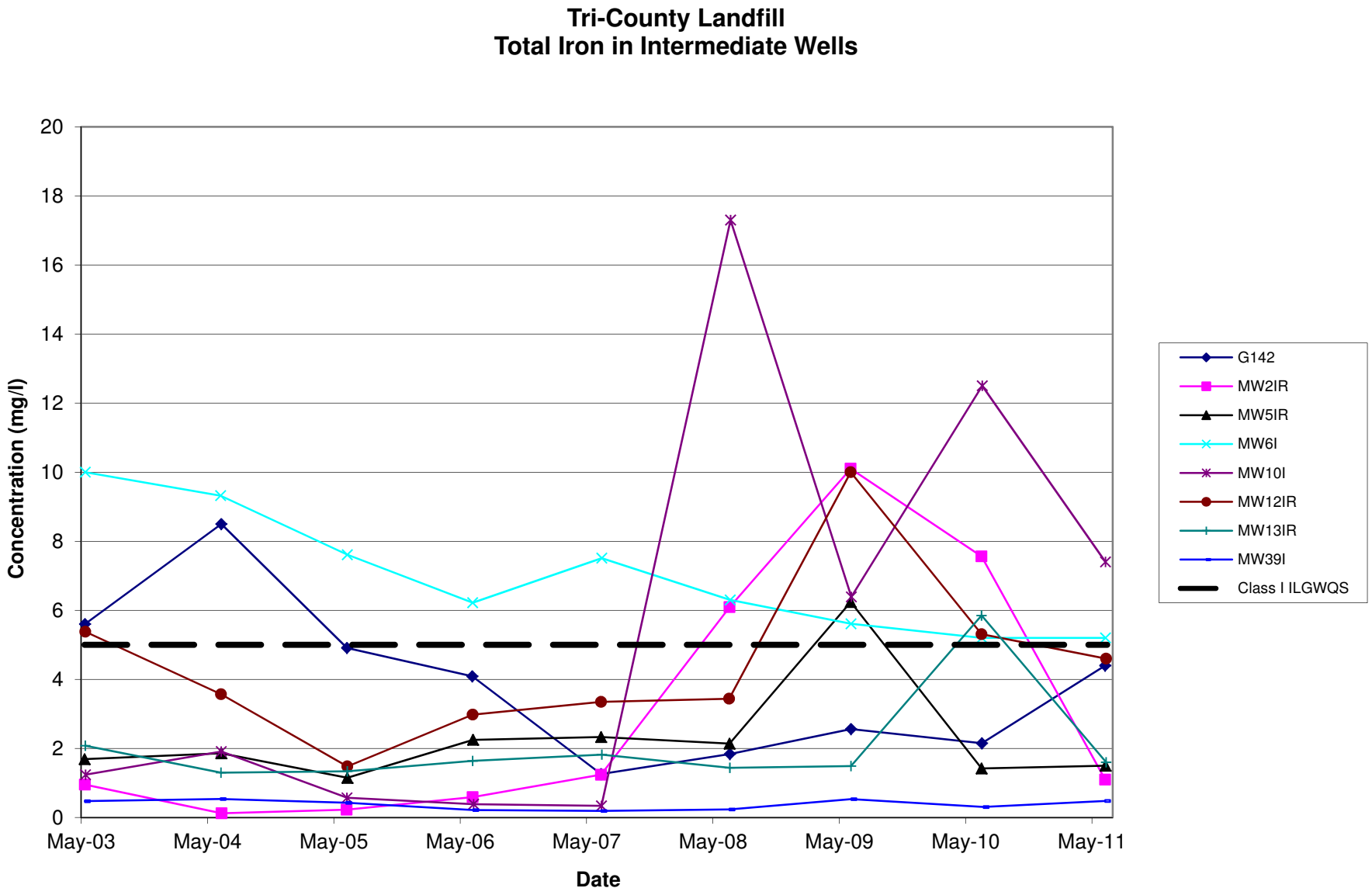

Tri-County Landfill
Total Iron in Shallow Wells
Concentration (mg/l)
25
20
15
10
5
0
May-03
May-04
May-05
May-06
May-07
May-08
May-09
May-10
May-11
Date
MW2SR
MW5SR
MW6S
MW10S
MW12SR
MW38S
MW39S
MW41S
Class I ILGWQS

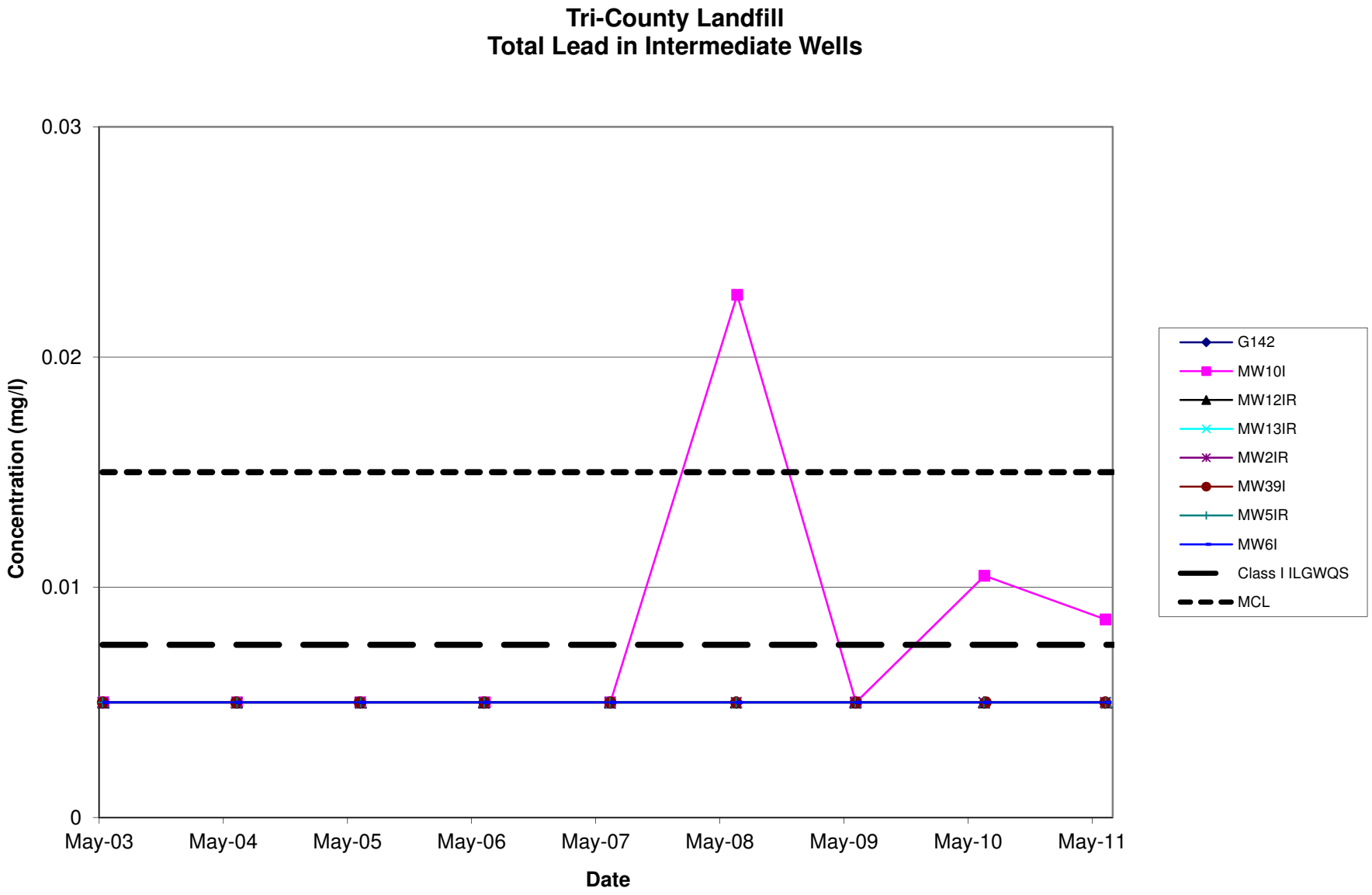

Tri-County Landfill
Total Manganese in Shallow Wells
Concentration (mg/l)
3.0
2.5
2.0
1.5
1.0
0.5
0.0
May-03
May-04
May-05
May-06
May-07
May-08
May-09
May-10
May-11
Date
MW2SR
MW5SR
MW6S
MW10S
MW12SR
MW38S
MW39S
MW41S
Class I ILGWQS

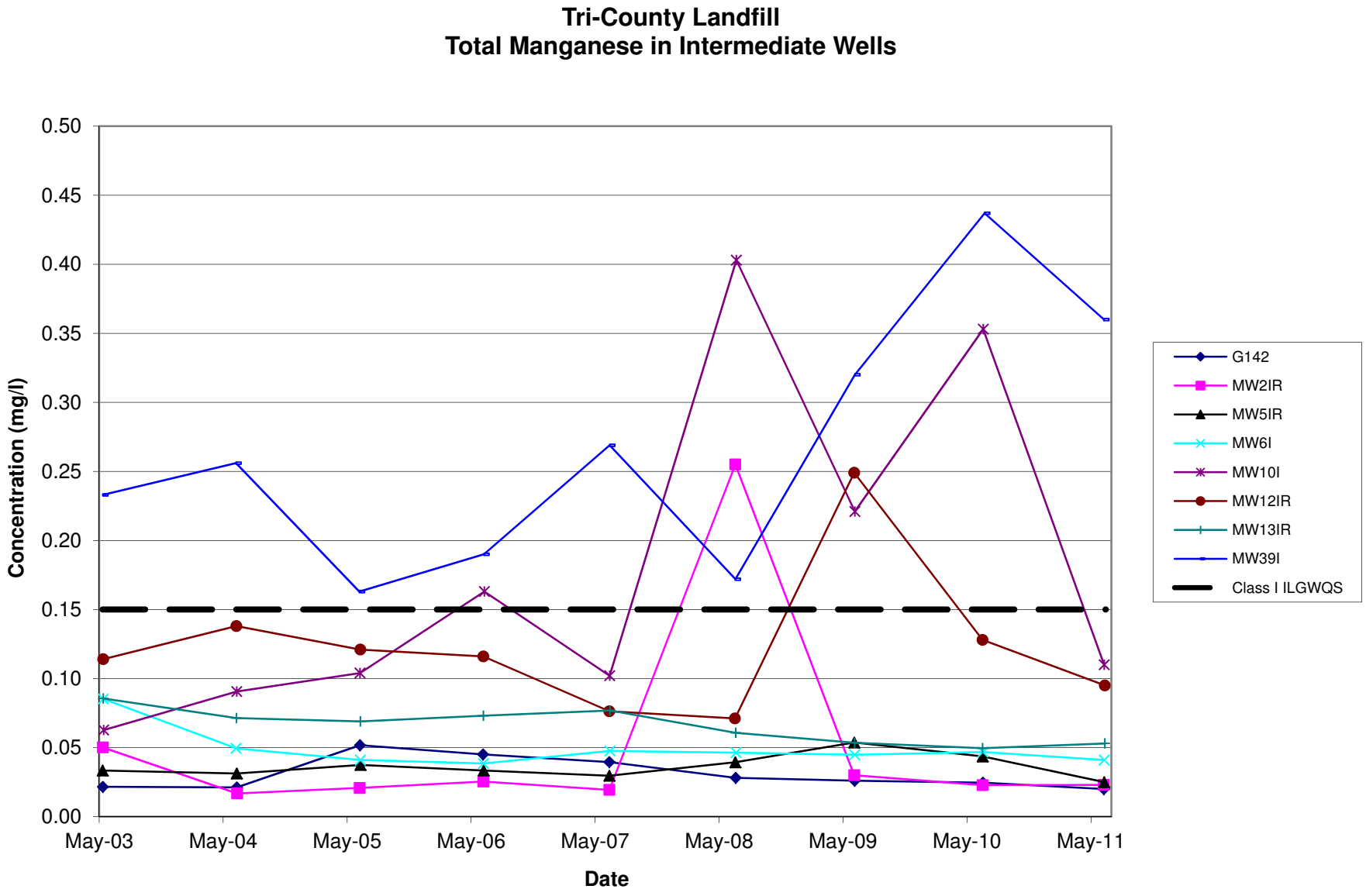

Tri-County Landfill
Total Arsenic in Intermediate Wells
Concentration (mg/l)
0.06
0.05
0.04
0.03
0.02
0.01
0
May-03
May-04
May-05
May-06
May-07
May-08
May-09
May-10
May-11
Date
G142
MW2IR
MW5IR
MW6I
MW10I
MW12IR
MW13IR
MW39I
MCL
Class I ILGWQS

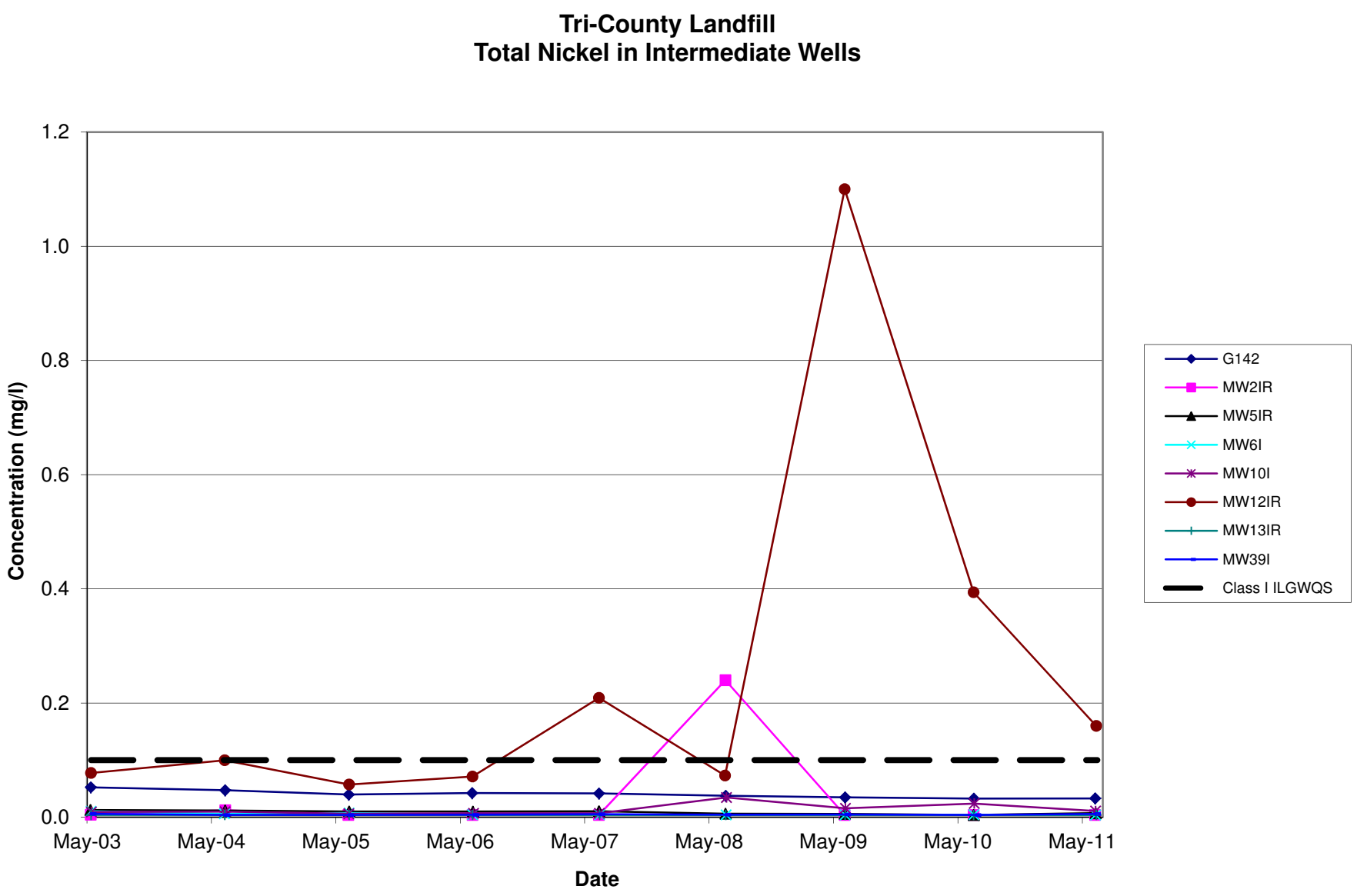

Tri-County Landfill
Chloride in Intermediate Wells
Concentration (mg/l)
900
800
700
600
500
400
300
200
100
0
May-03
May-04
May-05
May-06
May-07
May-08
May-09
May-10
May-11
Date
G142
MW6I
MW10I
MW12IR
MW13IR
MW1I1
MW1I2
MW2IR
MW39I
MW5IR
Class I ILGWQS

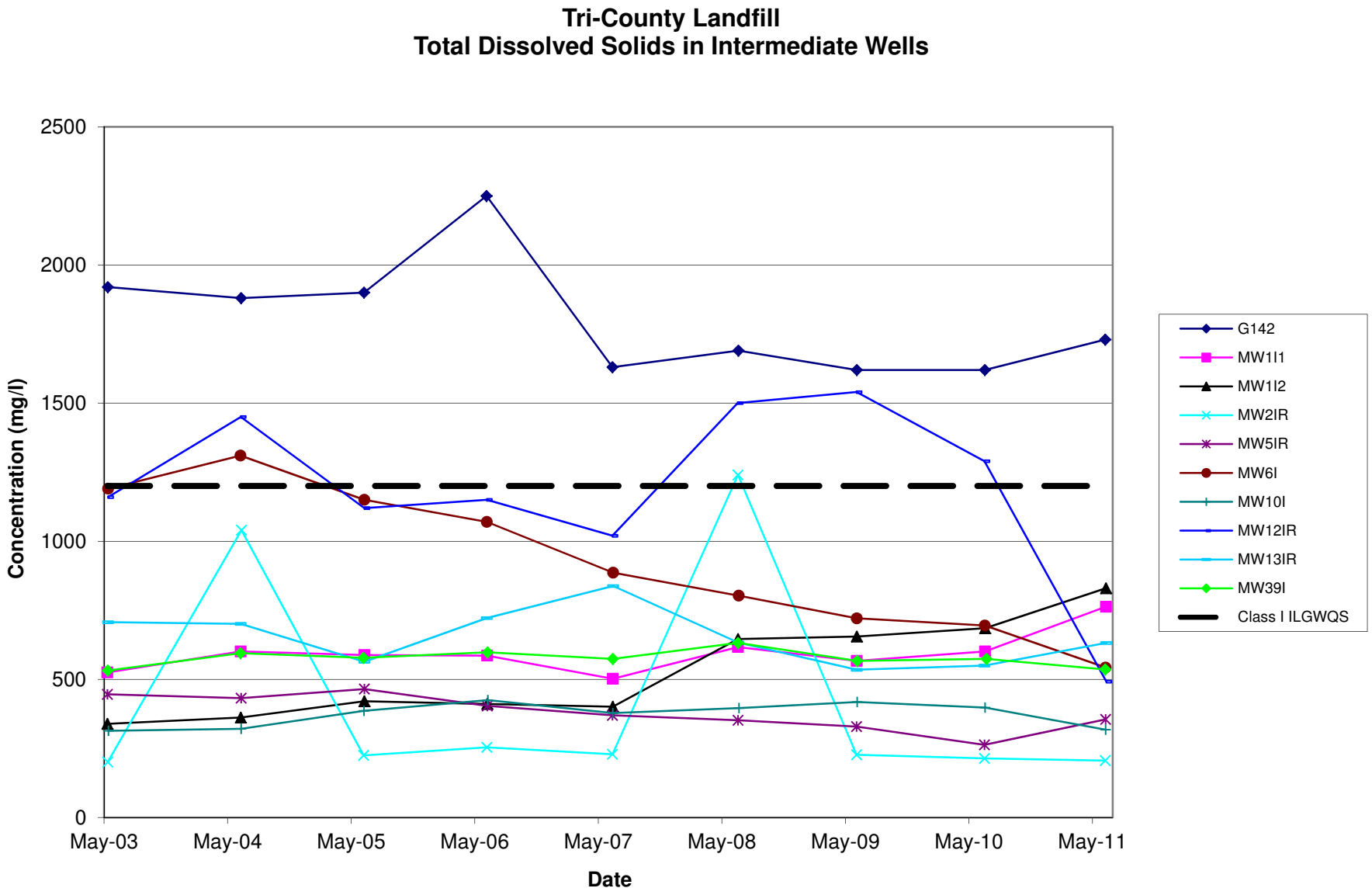

Tri-County Landfill
Total Chromium in Intermediate Wells
Concentration (mg/l)
2.5
2.0
1.5
1.0
0.5
0.0
May-03
May-04
May-05
May-06
May-07
May-08
May-09
May-10
May-11
Date
G142
MW2IR
MW5IR
MW6I
MW10I
MW12IR
MW13IR
MW39I
MCL and Class I ILGWQS

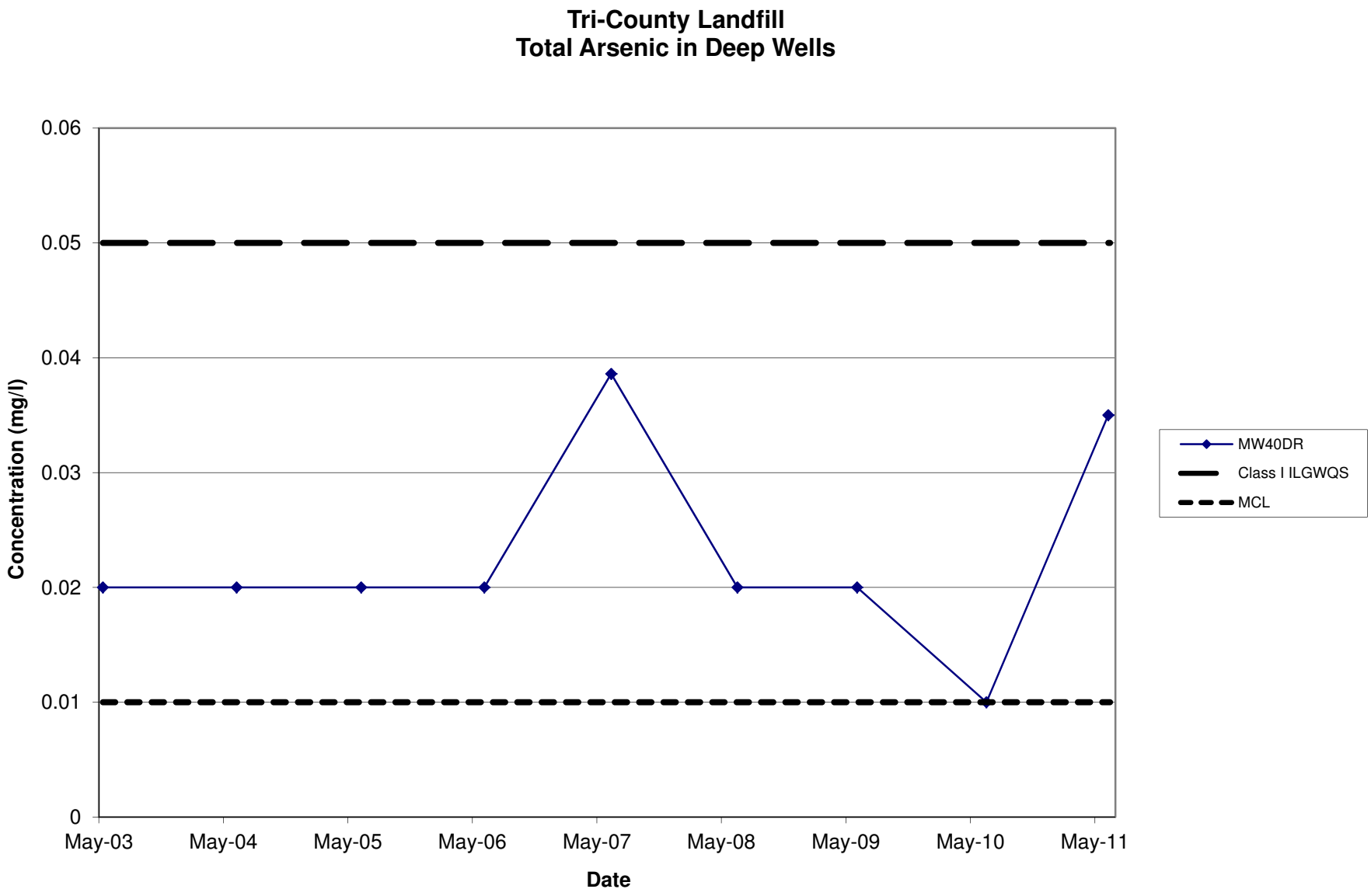

Tri-County Landfill
Total Iron in Intermediate Wells
Concentration (mg/l)
20
18
16
14
12
10
8
6
4
2
0
May-03
May-04
May-05
May-06
May-07
May-08
May-09
May-10
May-11
Date
G142
MW2IR
MW5IR
MW6I
MW10I
MW12IR
MW13IR
MW39I
Class I ILGWQS

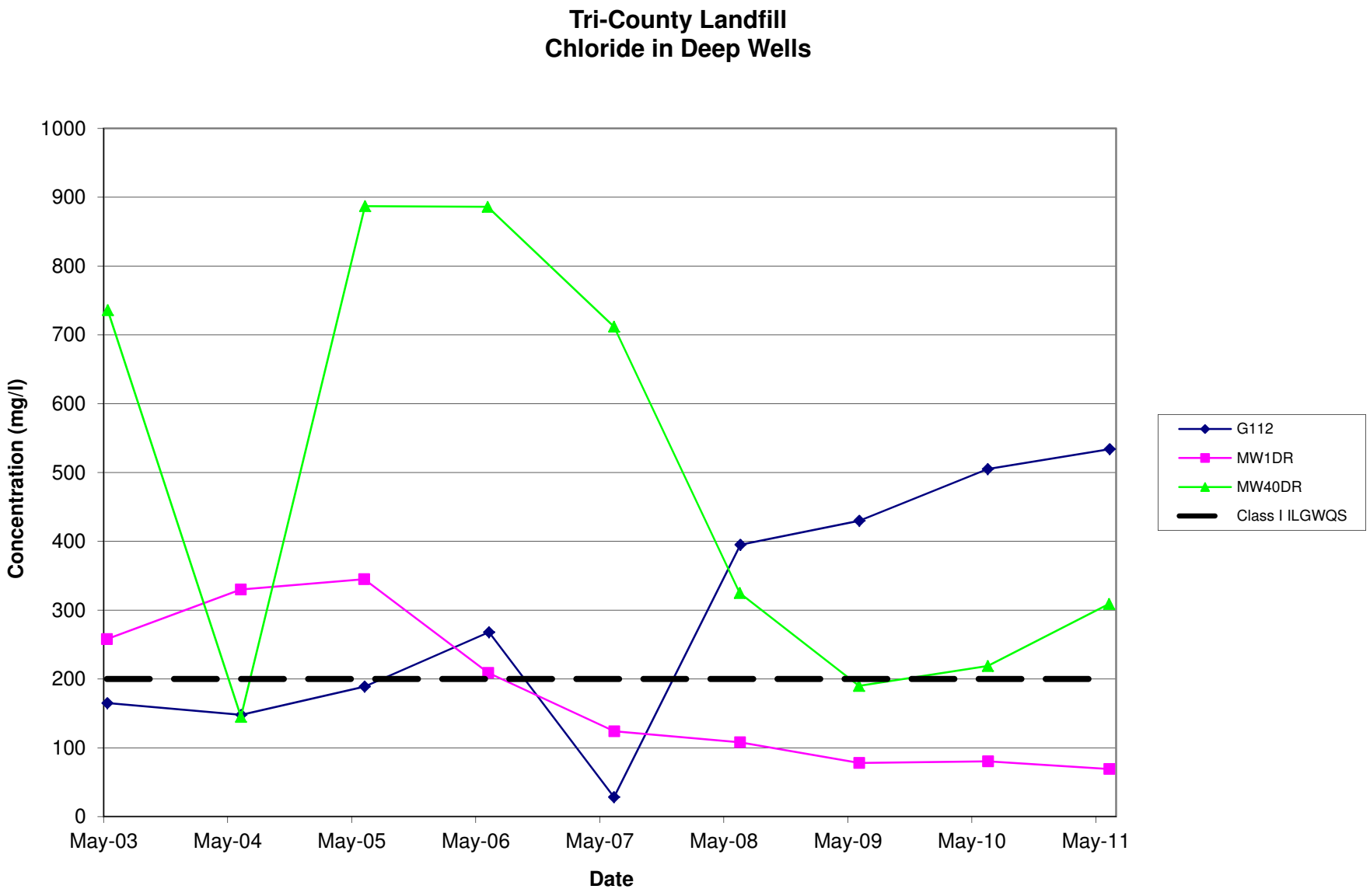

Tri-County Landfill
Total Lead in Intermediate Wells
0.03
0.02
0.01
0
Concentration (mg/l)
May-03
May-04
May-05
May-06
May-07
May-08
May-09
May-10
May-11
Date
G142
MW10I
MW12IR
MW13IR
MW2IR
MW39I
MW5IR
MW6I
Class I ILGWQS
MCL

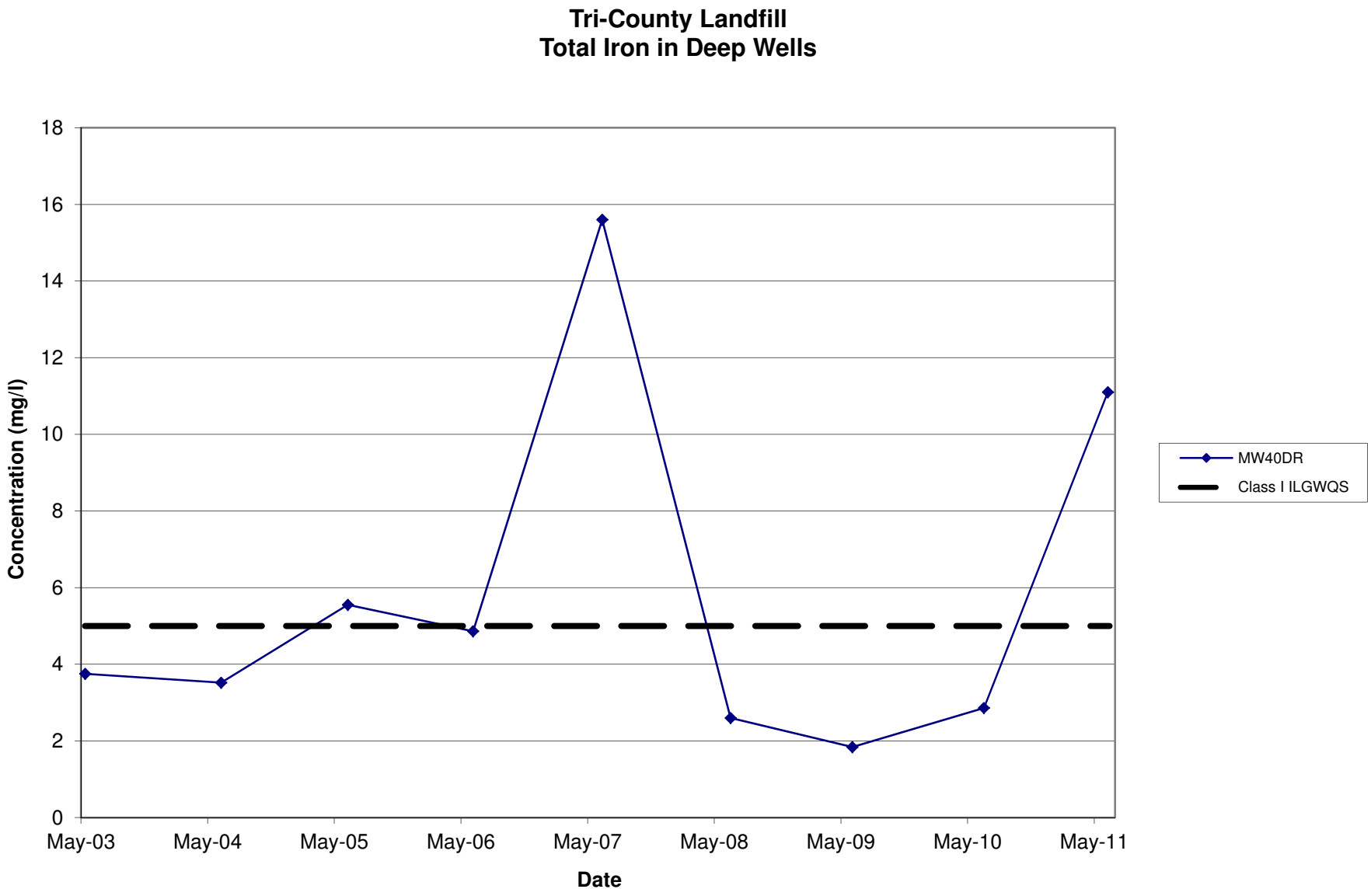

Tri-County Landfill
Total Manganese in Intermediate Wells
Concentration (mg/l)
0.50
0.45
0.40
0.35
0.30
0.25
0.20
0.15
0.10
0.05
0.00
May-03
May-04
May-05
May-06
May-07
May-08
May-09
May-10
May-11
Date
G142
MW2IR
MW5IR
MW6I
MW10I
MW12IR
MW13IR
MW39I
Class I ILGWQS

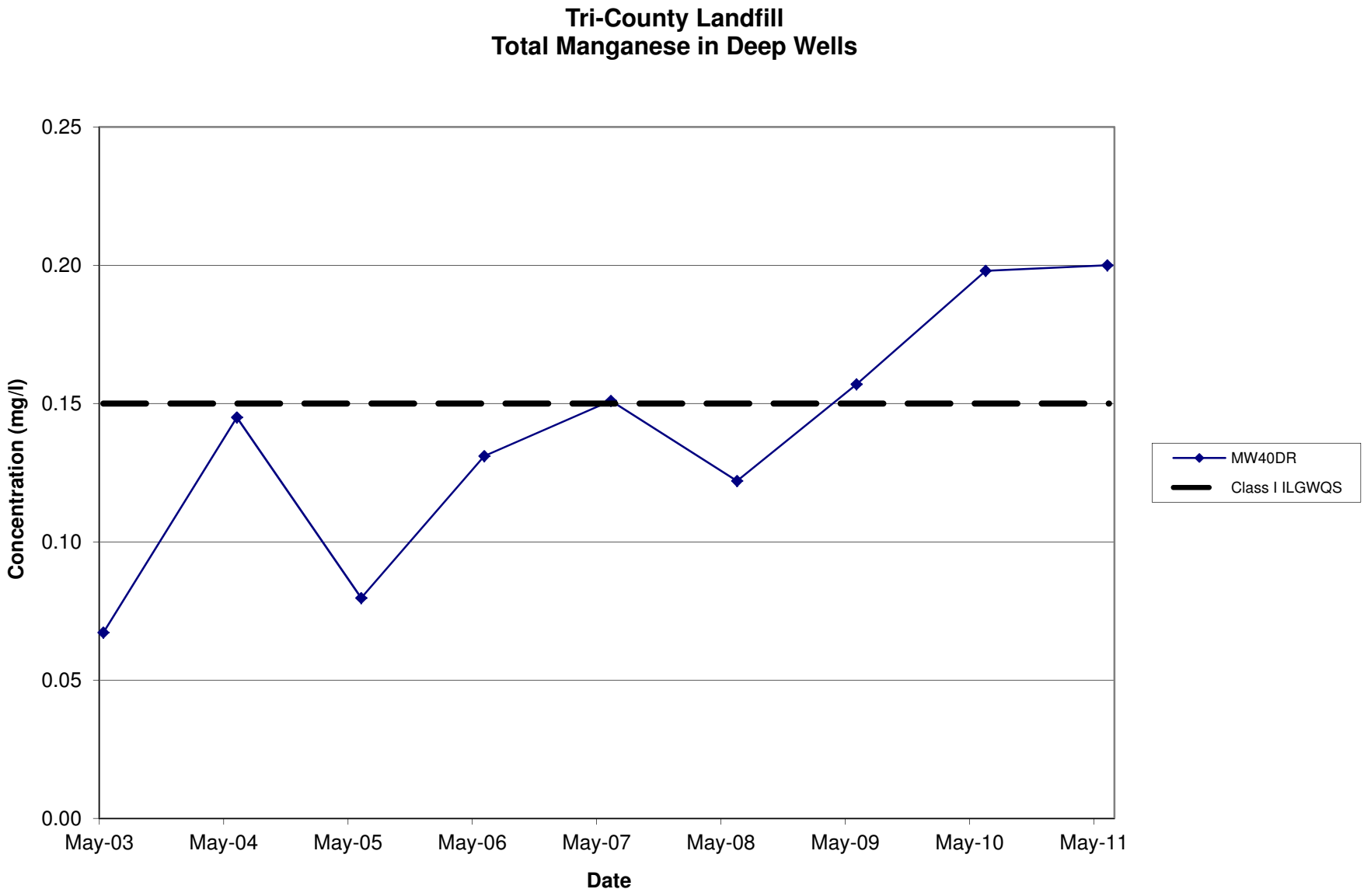

Tri-County Landfill
Total Nickel in Intermediate Wells
Concentration (mg/l)
1.2
1.0
0.8
0.6
0.4
0.2
0.0
May-03
May-04
May-05
May-06
May-07
May-08
May-09
May-10
May-11
Date
G142
MW2IR
MW5IR
MW6I
MW10I
MW12IR
MW13IR
MW39I
Class I ILGWQS

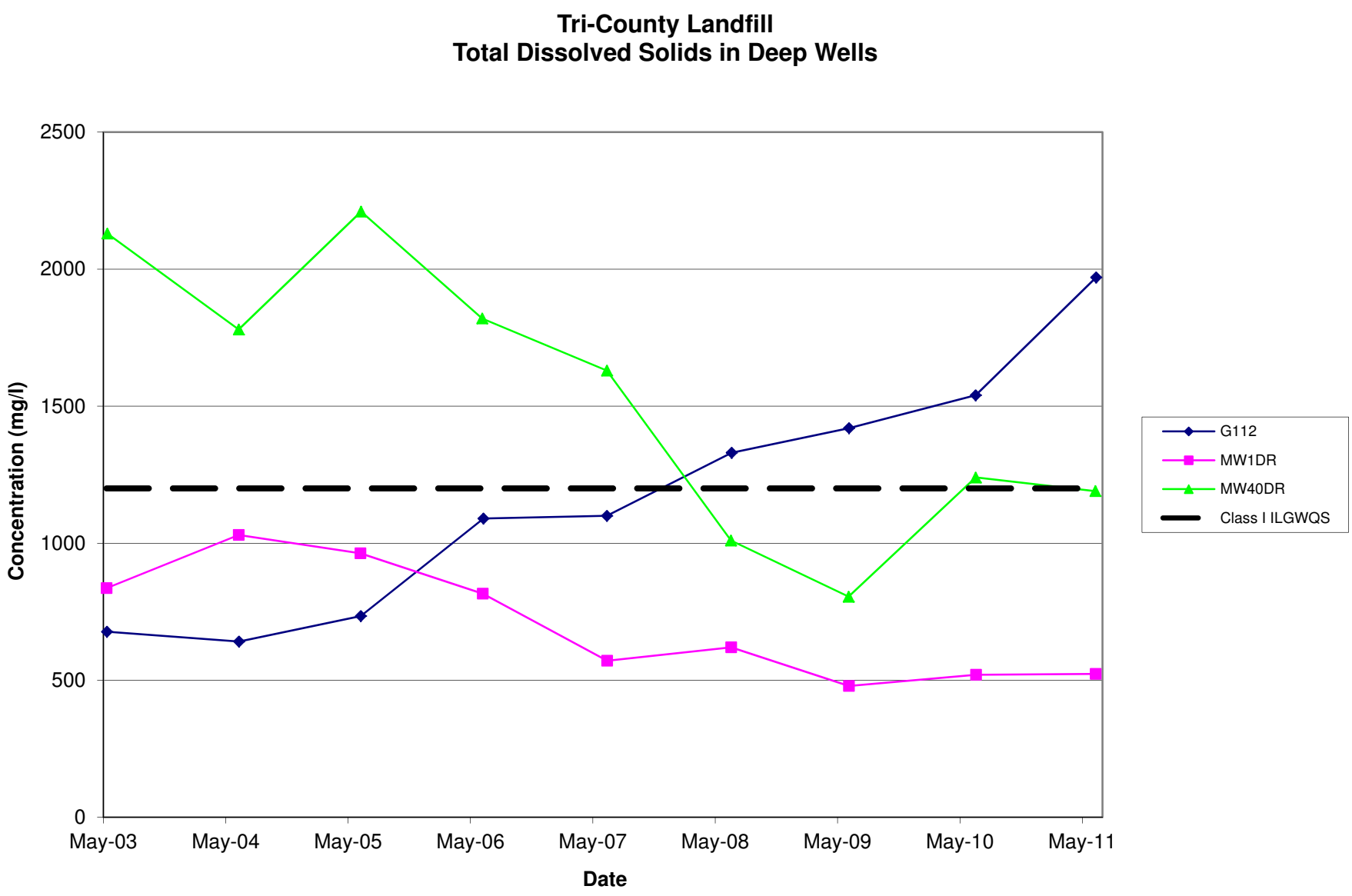

Tri-County Landfill
Total Dissolved Solids in Intermediate Wells
Concentration (mg/l)
2500
2000
1500
1000
500
0
May-03
May-04
May-05
May-06
May-07
May-08
May-09
May-10
May-11
Date
G142
MW1I1
MW1I2
MW2IR
MW5IR
MW6I
MW10I
MW12IR
MW13IR
MW39I
Class I ILGWQS


Tri-County Landfill
Total Arsenic in Deep Wells
0.06
0.05
0.04
0.03
0.02
0.01
0
Concentration (mg/l)
May-03
May-04
May-05
May-06
May-07
May-08
May-09
May-10
May-11
Date
MW40DR
Class I ILGWQS
MCL

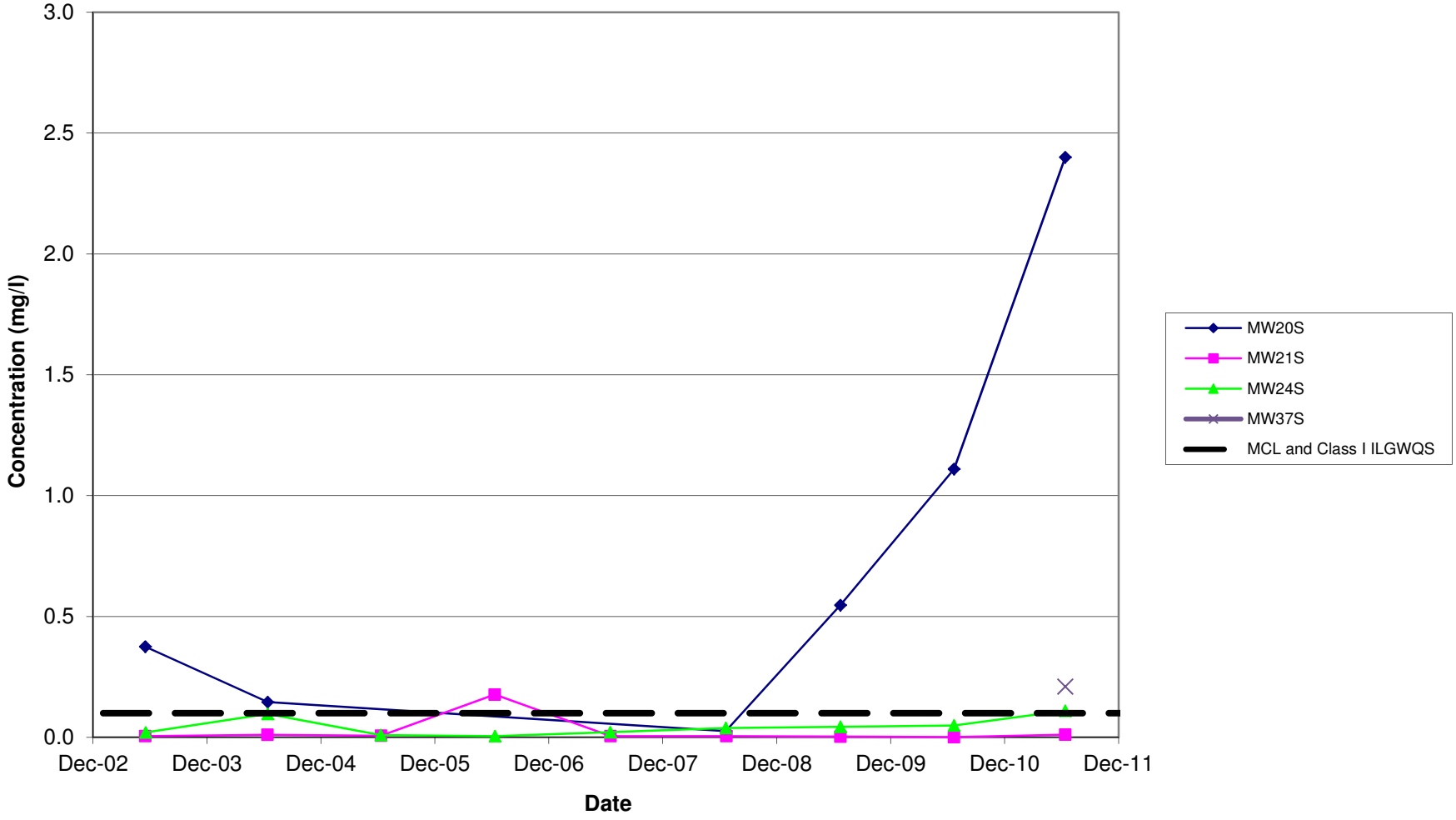

Tri-County Landfill
Chloride in Deep Wells
Concentration (mg/l)
1000
900
800
700
600
500
400
300
200
100
0
May-03
May-04
May-05
May-06
May-07
May-08
May-09
May-10
May-11
Date
G112
MW1DR
MW40DR
Class I ILGWQS

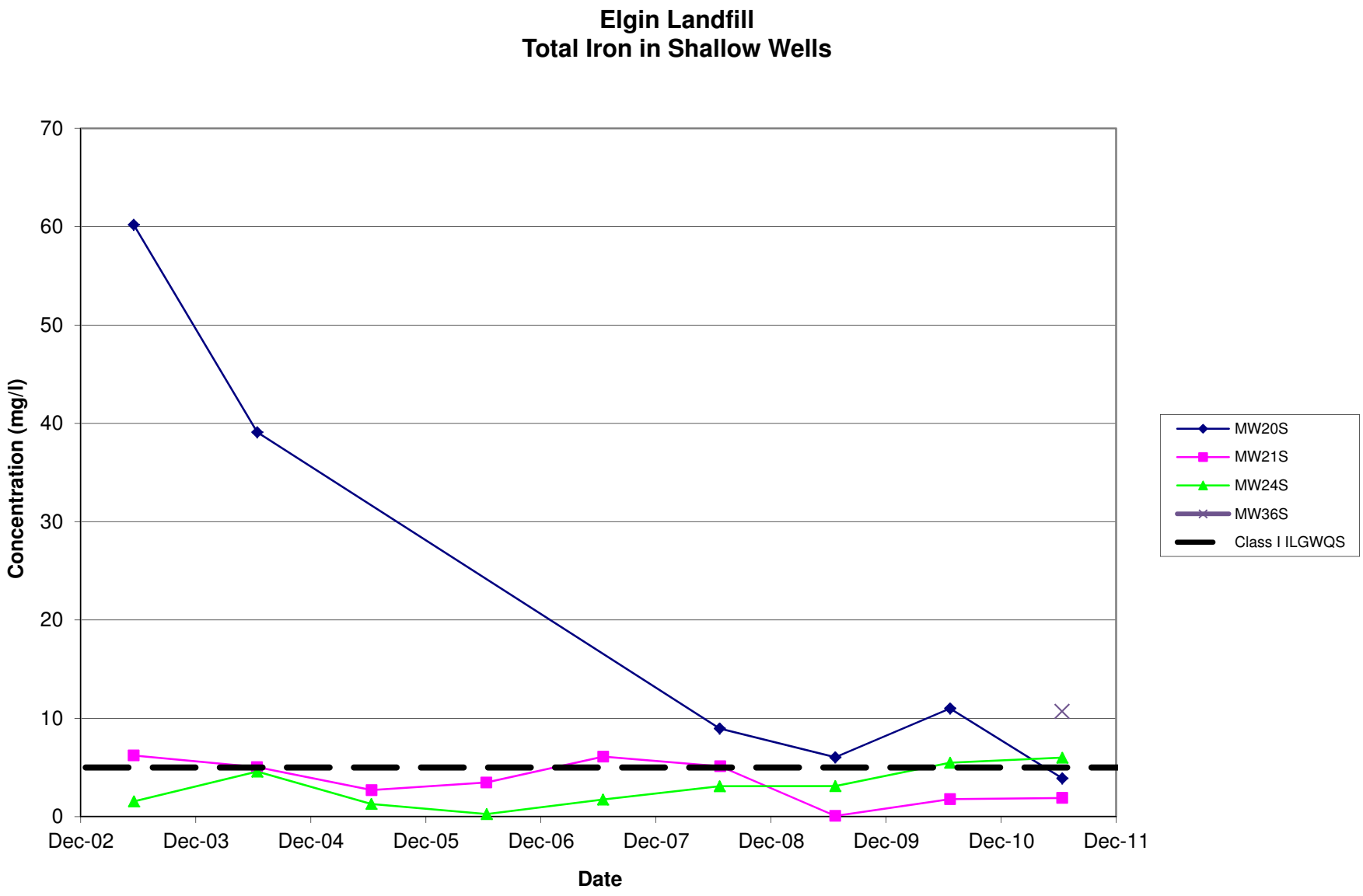

Tri-County Landfill
Total Iron in Deep Wells
Concentration (mg/l)
18
16
14
12
10
8
6
4
2
0
May-03
May-04
May-05
May-06
May-07
May-08
May-09
May-10
May-11
Date
MW40DR
Class I ILGWQS

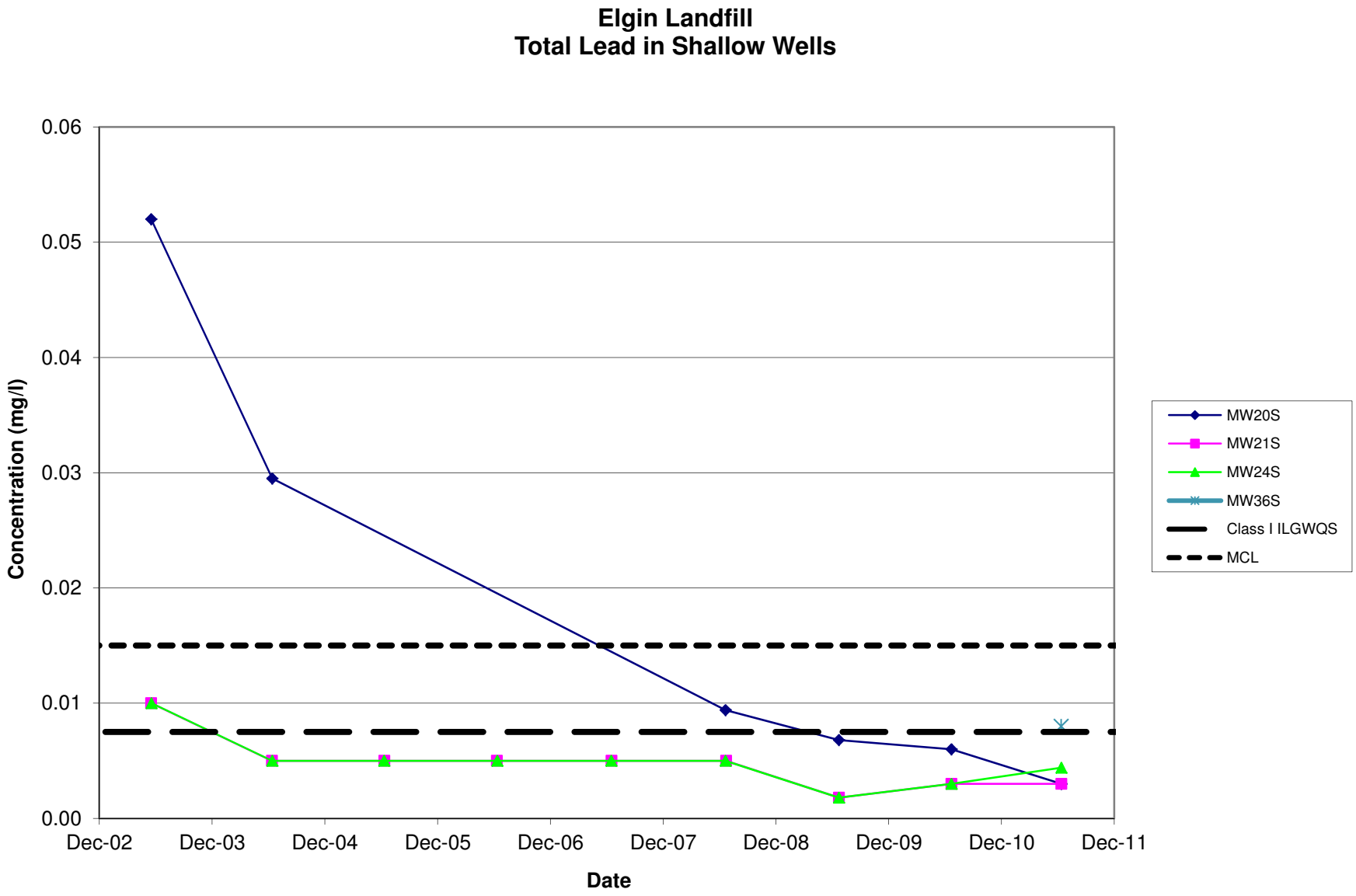

Tri-County Landfill
Total Manganese in Deep Wells
0.25
0.20
0.15
0.10
0.05
0.00
Concentration (mg/l)
May-03
May-04
May-05
May-06
May-07
May-08
May-09
May-10
May-11
Date
MW40DR
Class I ILGWQS

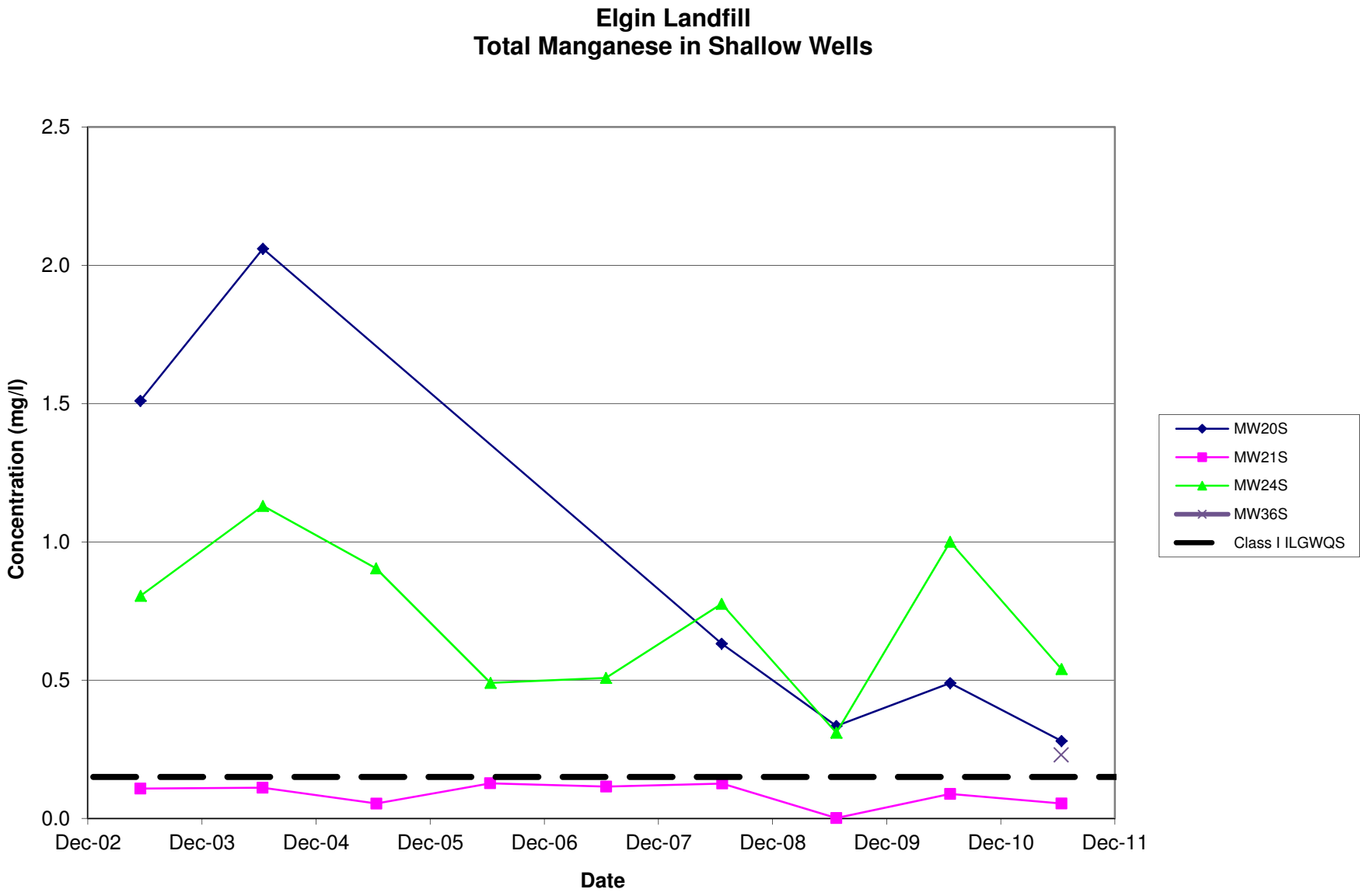

Tri-County Landfill
Total Dissolved Solids in Deep Wells
Concentration (mg/l)
2500
2000
1500
1000
500
0
May-03
May-04
May-05
May-06
May-07
May-08
May-09
May-10
May-11
Date
G112
MW1DR
MW40DR
Class I ILGWQS

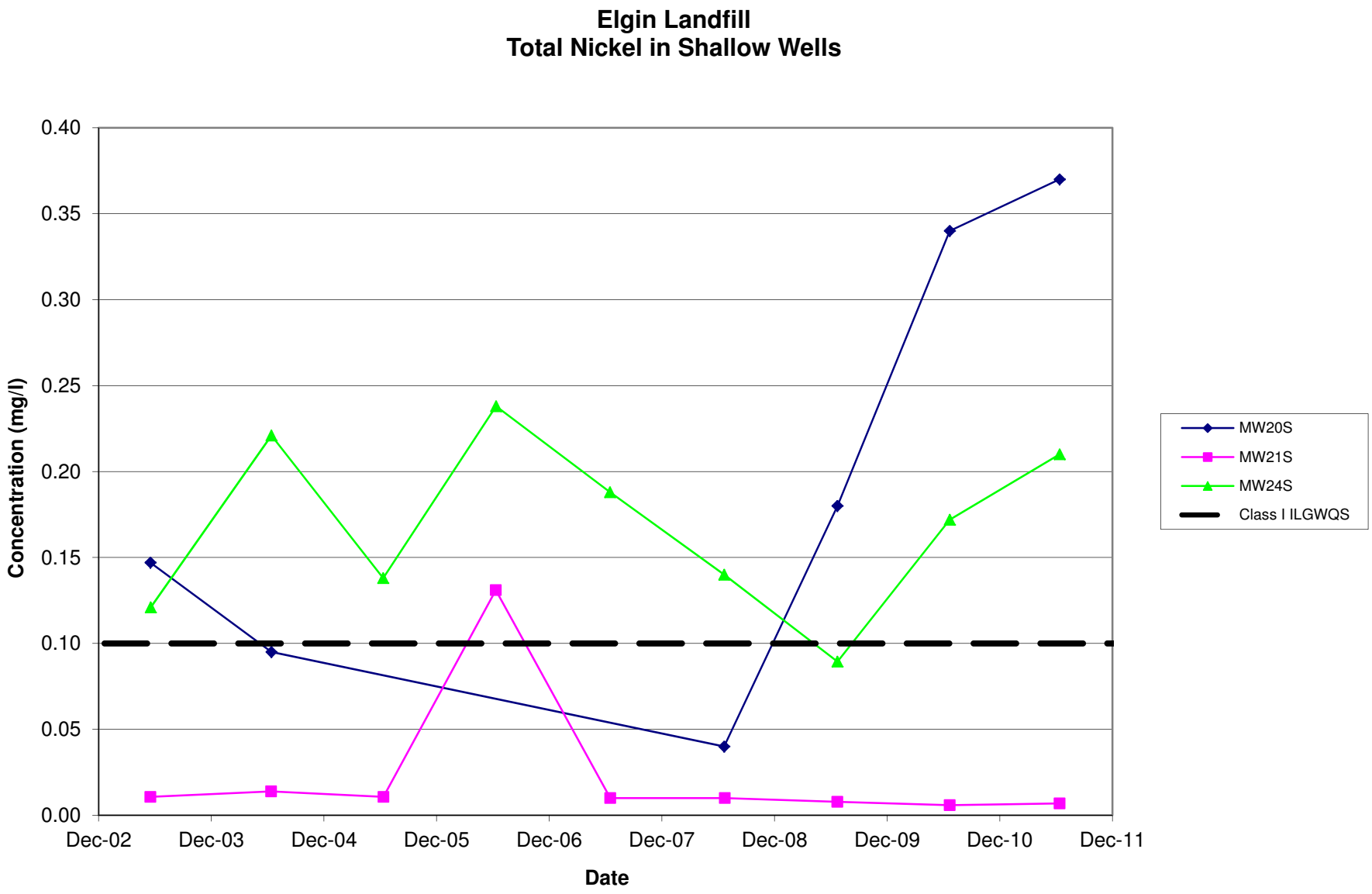
Elgin Landfill
Total Chromium in Shallow Wells



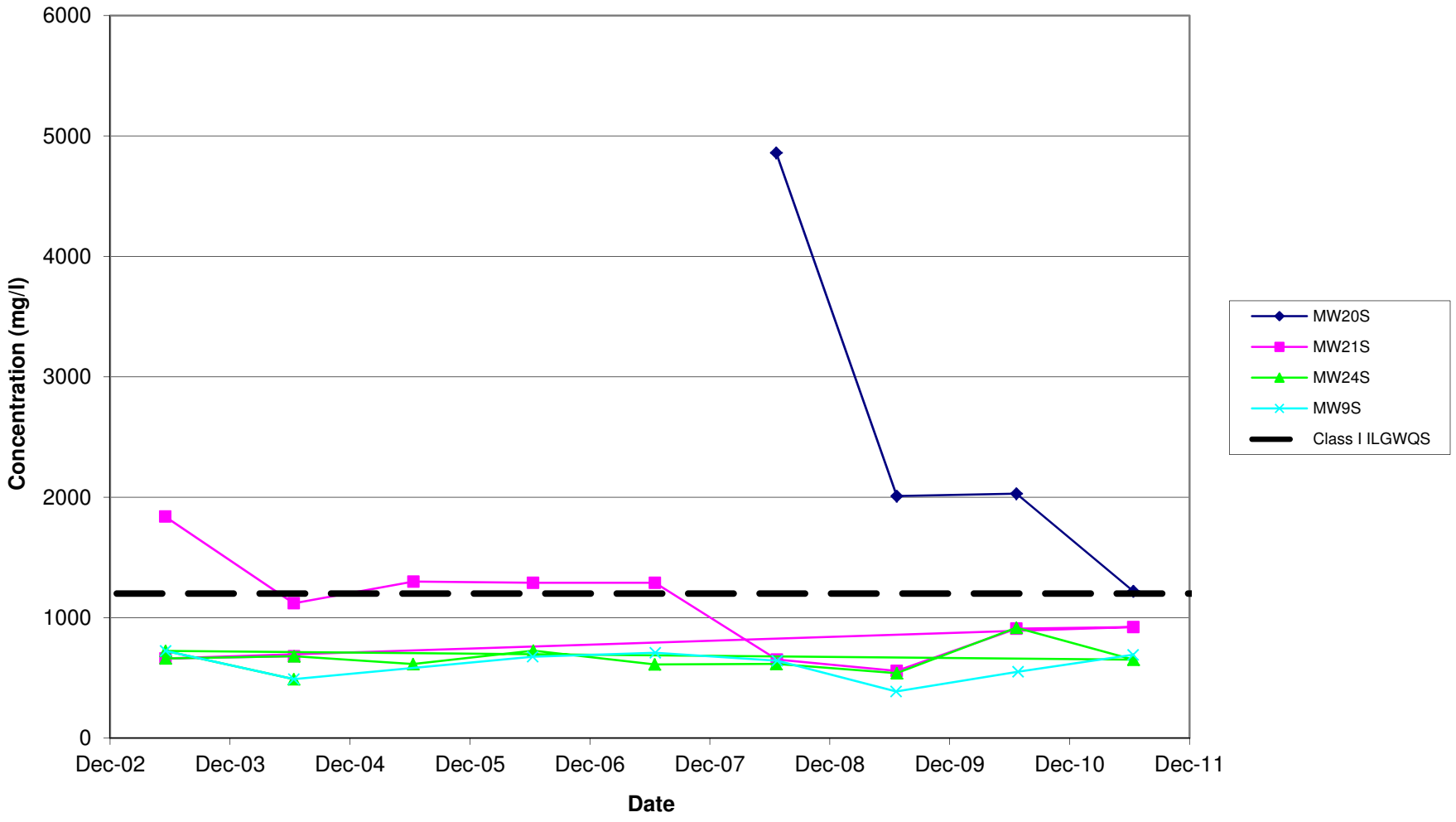

Elgin Landfill
Total Iron in Shallow Wells
Concentration (mg/l)
70
60
50
40
30
20
10
0
Dec-02
Dec-03
Dec-04
Dec-05
Dec-06
Dec-07
Dec-08
Dec-09
Dec-10
Dec-11
Date
MW20S
MW21S
MW24S
MW36S
Class I ILGWQS

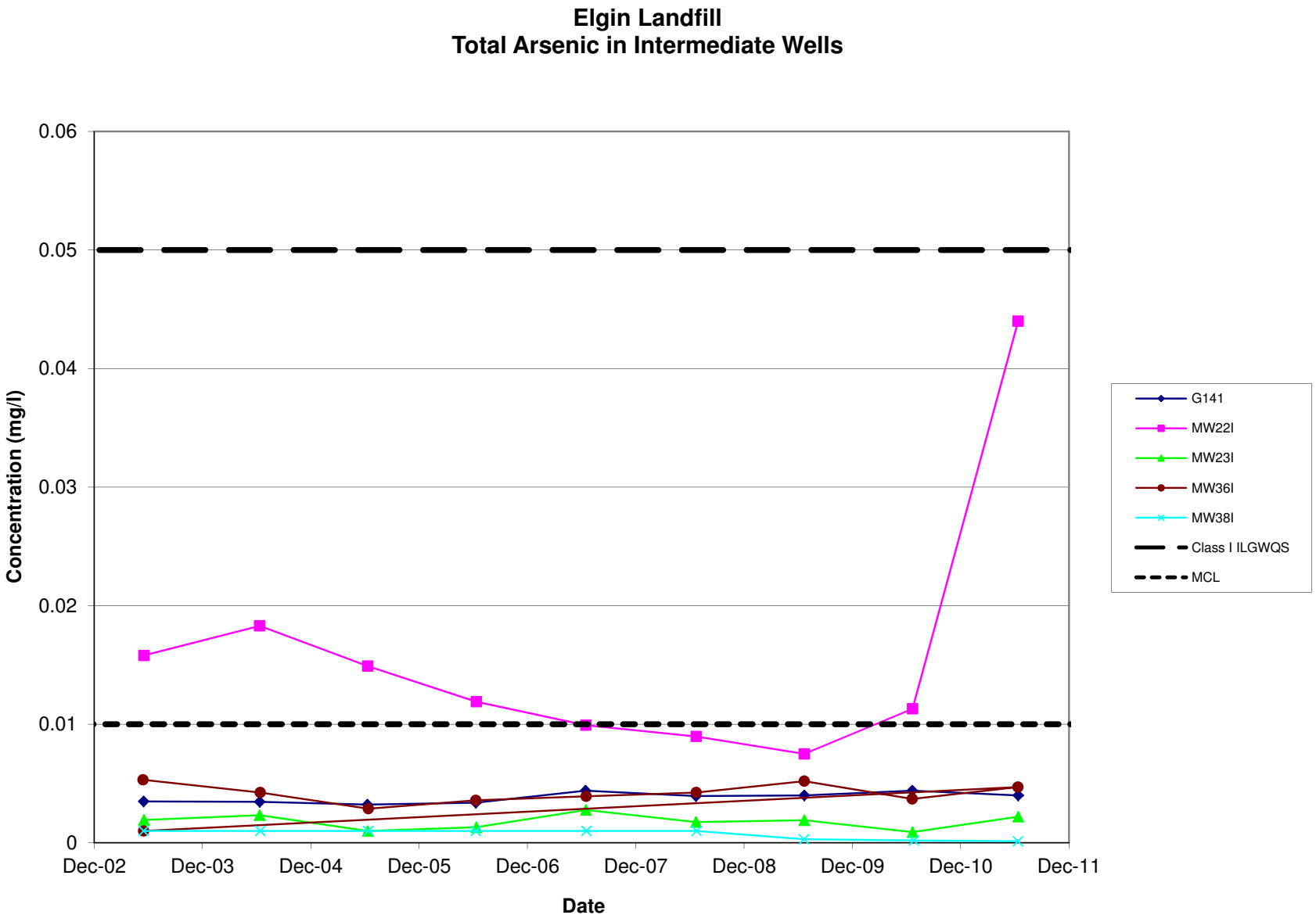

Elgin Landfill
Total Lead in Shallow Wells
Concentration (mg/l)
0.06
0.05
0.04
0.03
0.02
0.01
0.00
Dec-02
Dec-03
Dec-04
Dec-05
Dec-06
Dec-07
Dec-08
Dec-09
Dec-10
Dec-11
Date
MW20S
MW21S
MW24S
MW36S
Class I ILGWQS
MCL

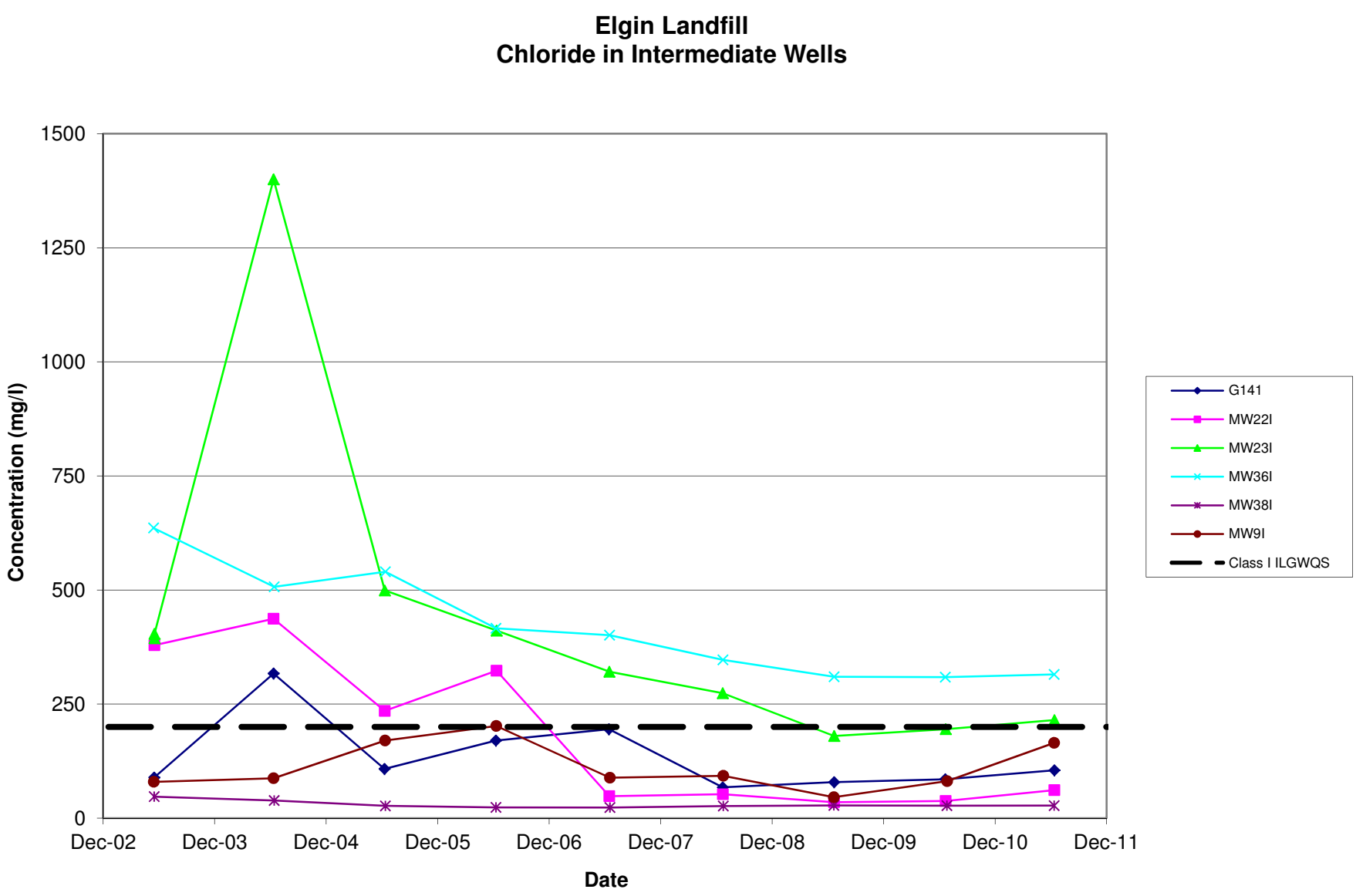

Elgin Landfill
Total Manganese in Shallow Wells
Concentration (mg/l)
2.5
2.0
1.5
1.0
0.5
0.0
Dec-02
Dec-03
Dec-04
Dec-05
Dec-06
Dec-07
Dec-08
Dec-09
Dec-10
Dec-11
Date
MW20S
MW21S
MW24S
MW36S
Class I ILGWQS

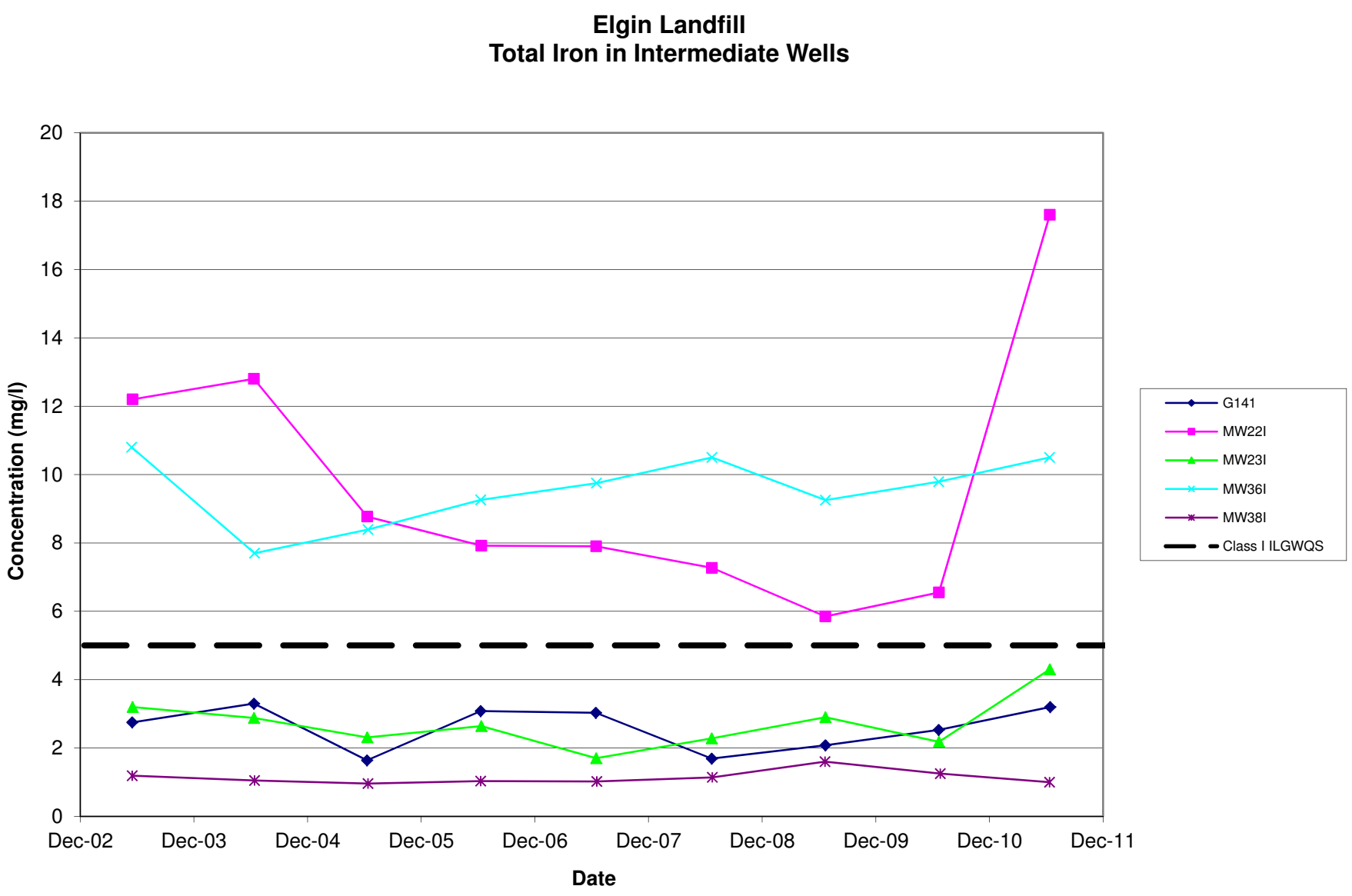

Elgin Landfill
Total Nickel in Shallow Wells
Concentration (mg/l)
0.40
0.35
0.30
0.25
0.20
0.15
0.10
0.05
0.00
Dec-02
Dec-03
Dec-04
Dec-05
Dec-06
Dec-07
Dec-08
Dec-09
Dec-10
Dec-11
Date
MW20S
MW21S
MW24S
Class I ILGWQS

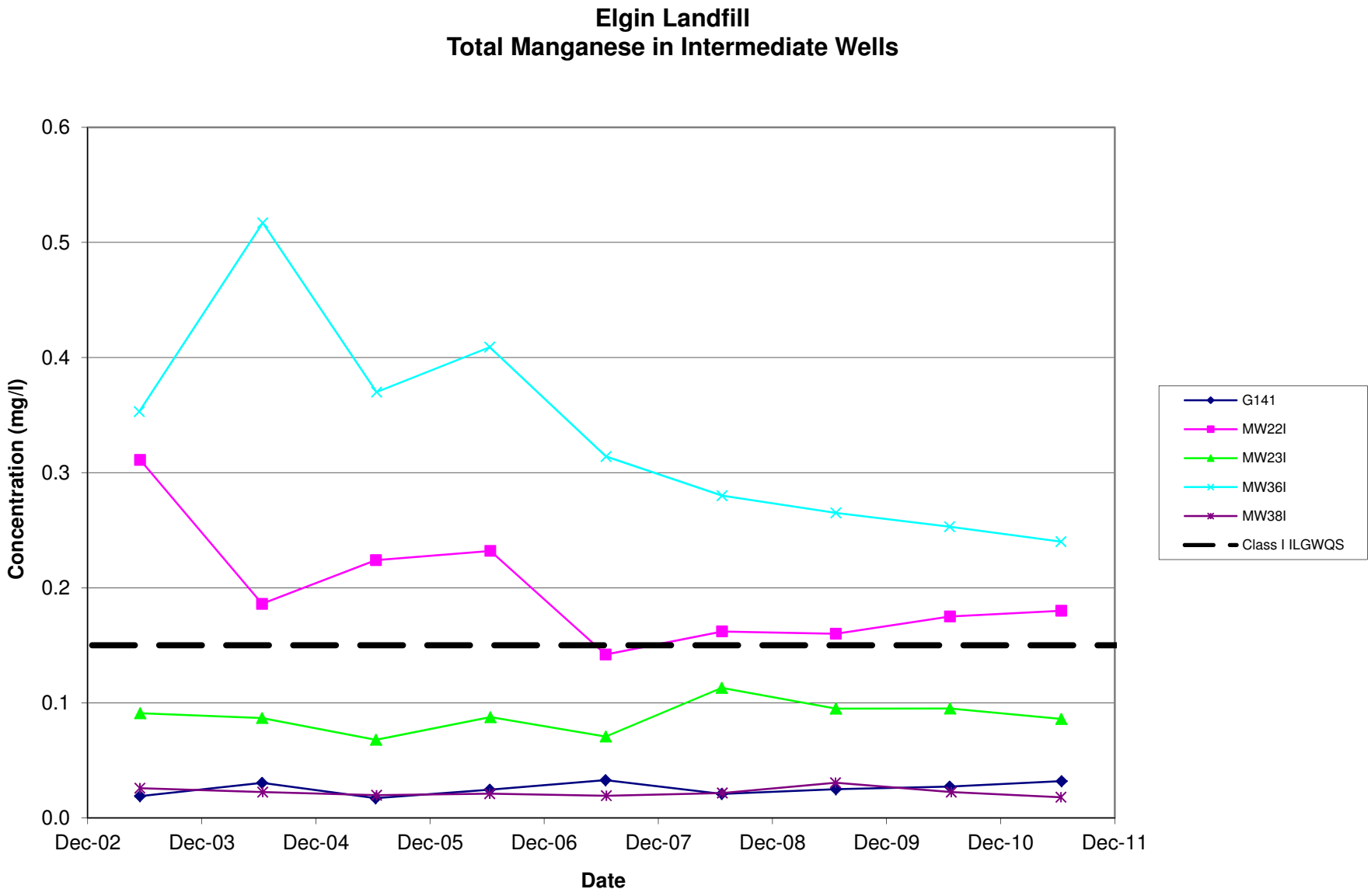
Elgin Landfill
Total Dissolved Solids in Shallow Wells

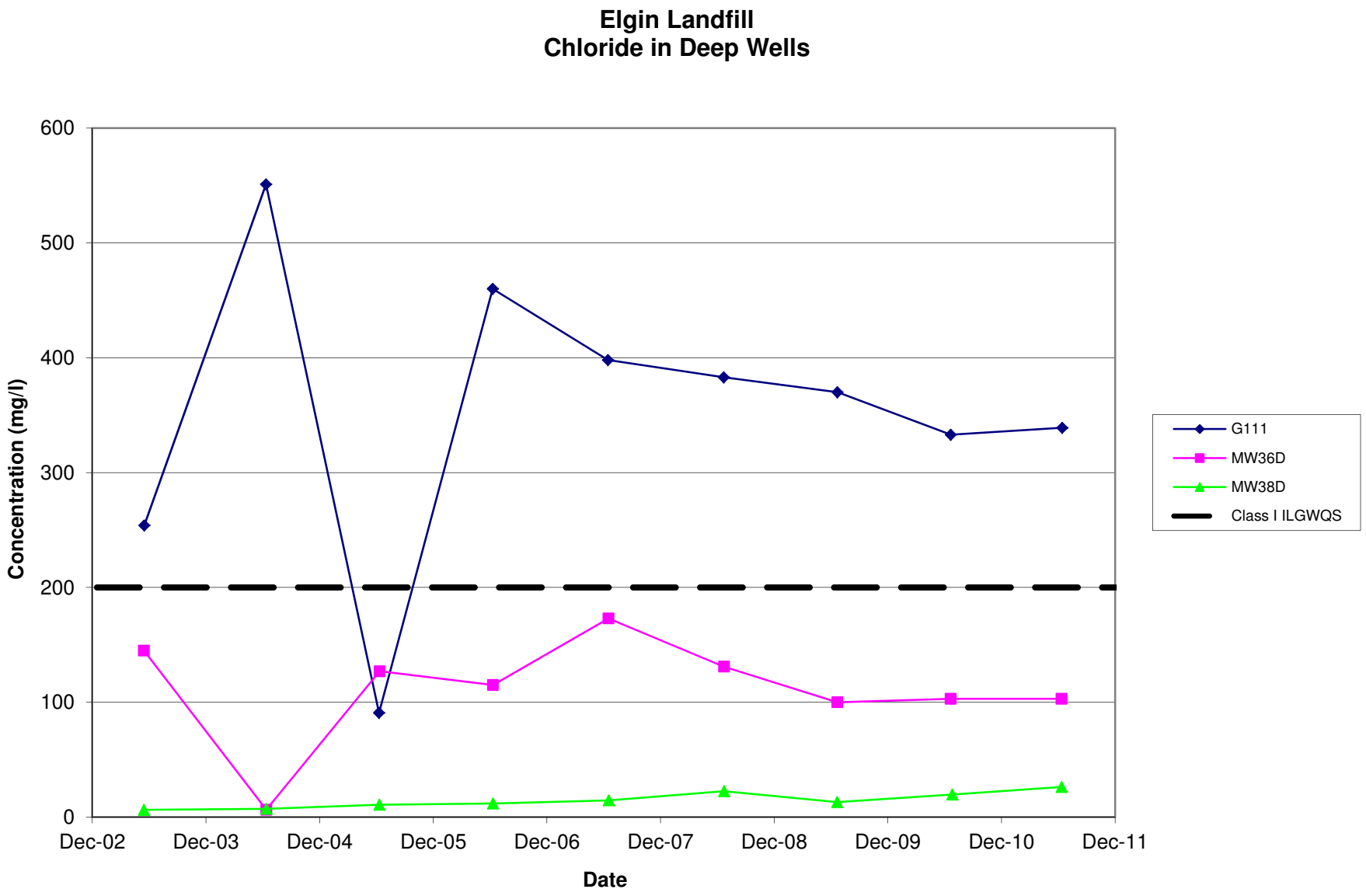


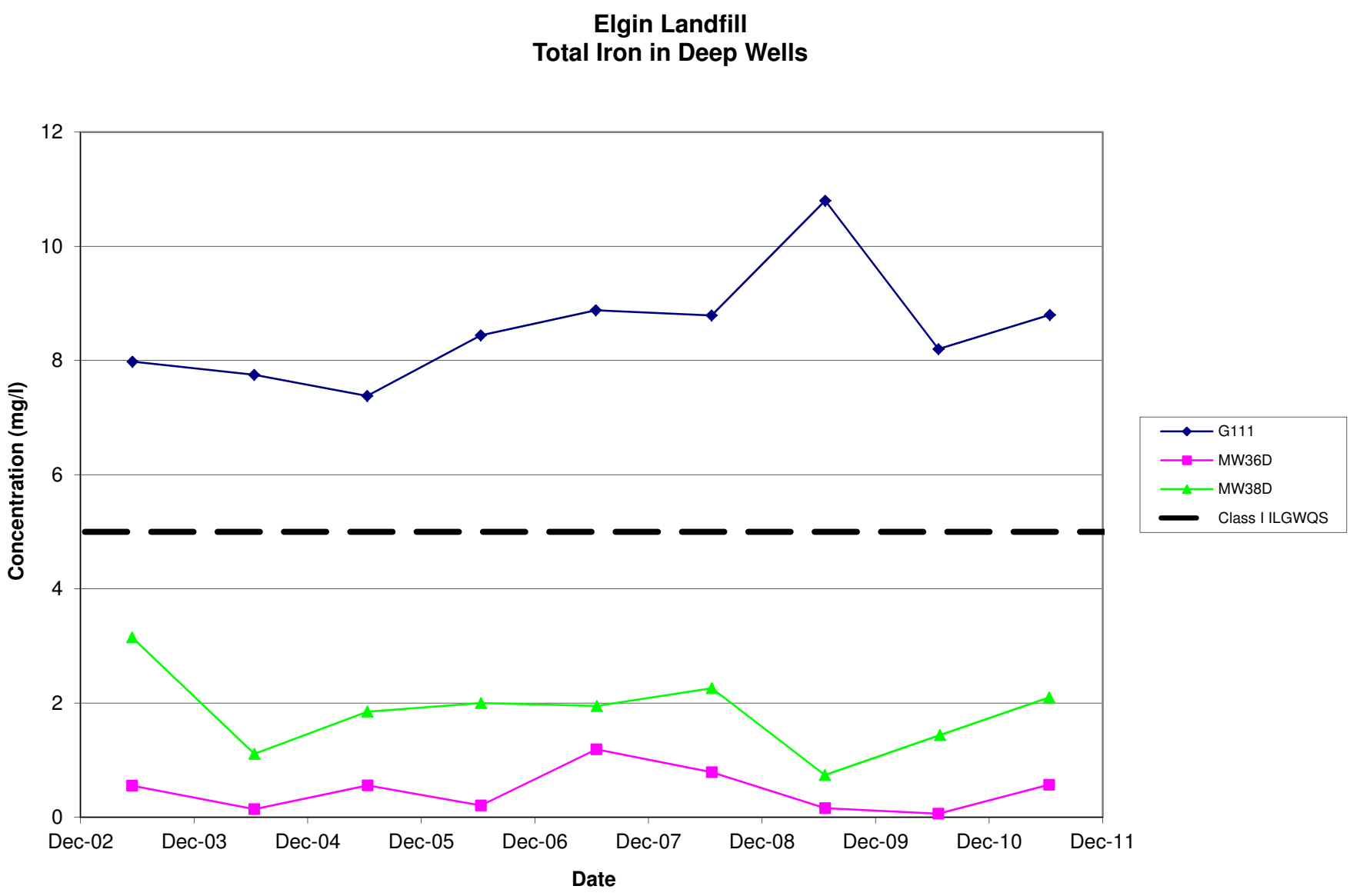

Elgin Landfill
Total Arsenic in Intermediate Wells
Concentration (mg/l)
0.06
0.05
0.04
0.03
0.02
0.01
0
Dec-02
Dec-03
Dec-04
Dec-05
Dec-06
Dec-07
Dec-08
Dec-09
Dec-10
Dec-11
Date
G141
MW22I
MW23I
MW36I
MW38I
Class I ILGWQS
MCL

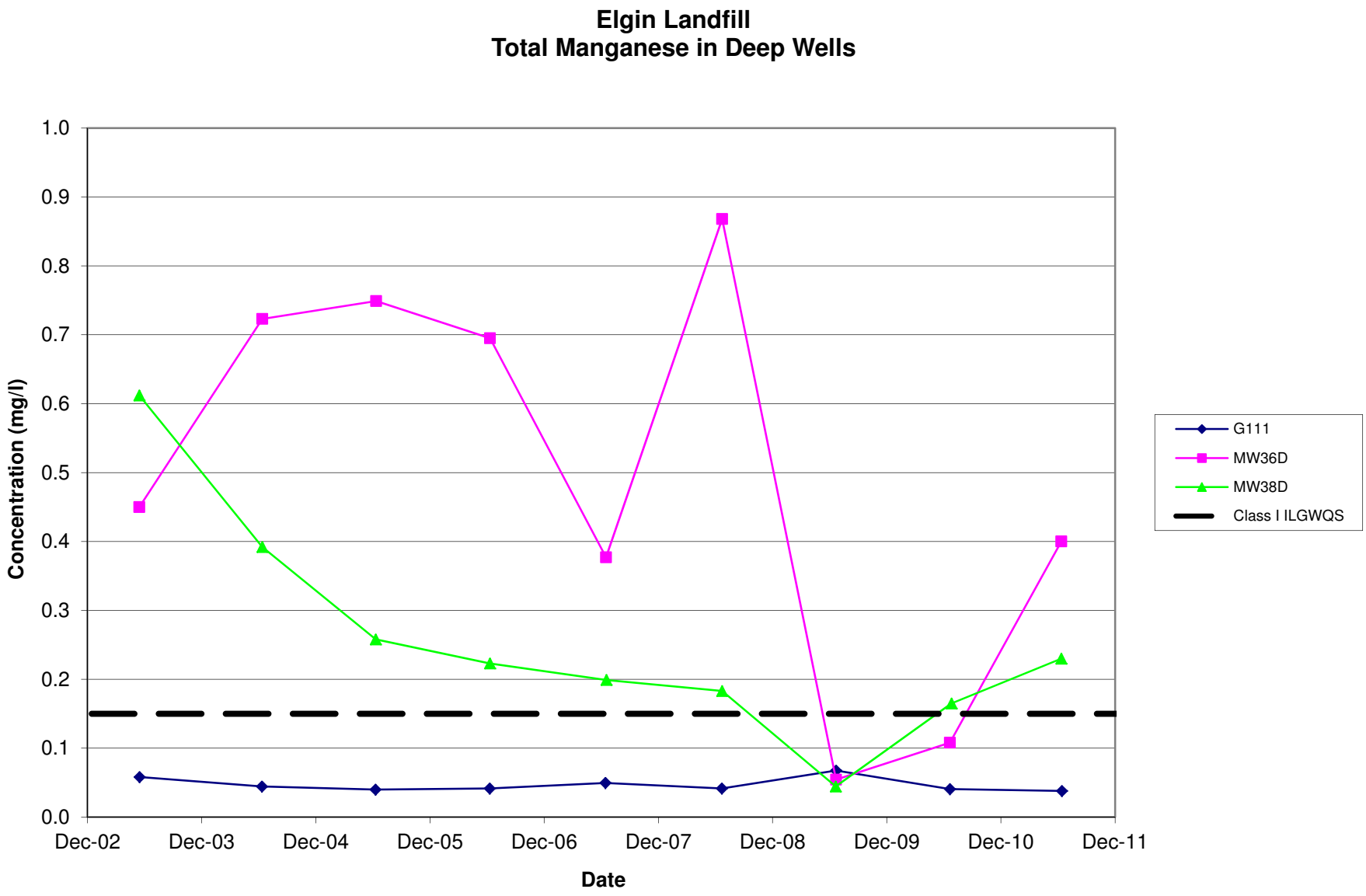

Elgin Landfill
Chloride in Intermediate Wells
Concentration (mg/l)
1500
1250
1000
750
500
250
0
Dec-02
Dec-03
Dec-04
Dec-05
Dec-06
Dec-07
Dec-08
Dec-09
Dec-10
Dec-11
Date
G141
MW22I
MW23I
MW36I
MW38I
MW9I
Class I ILGWQS

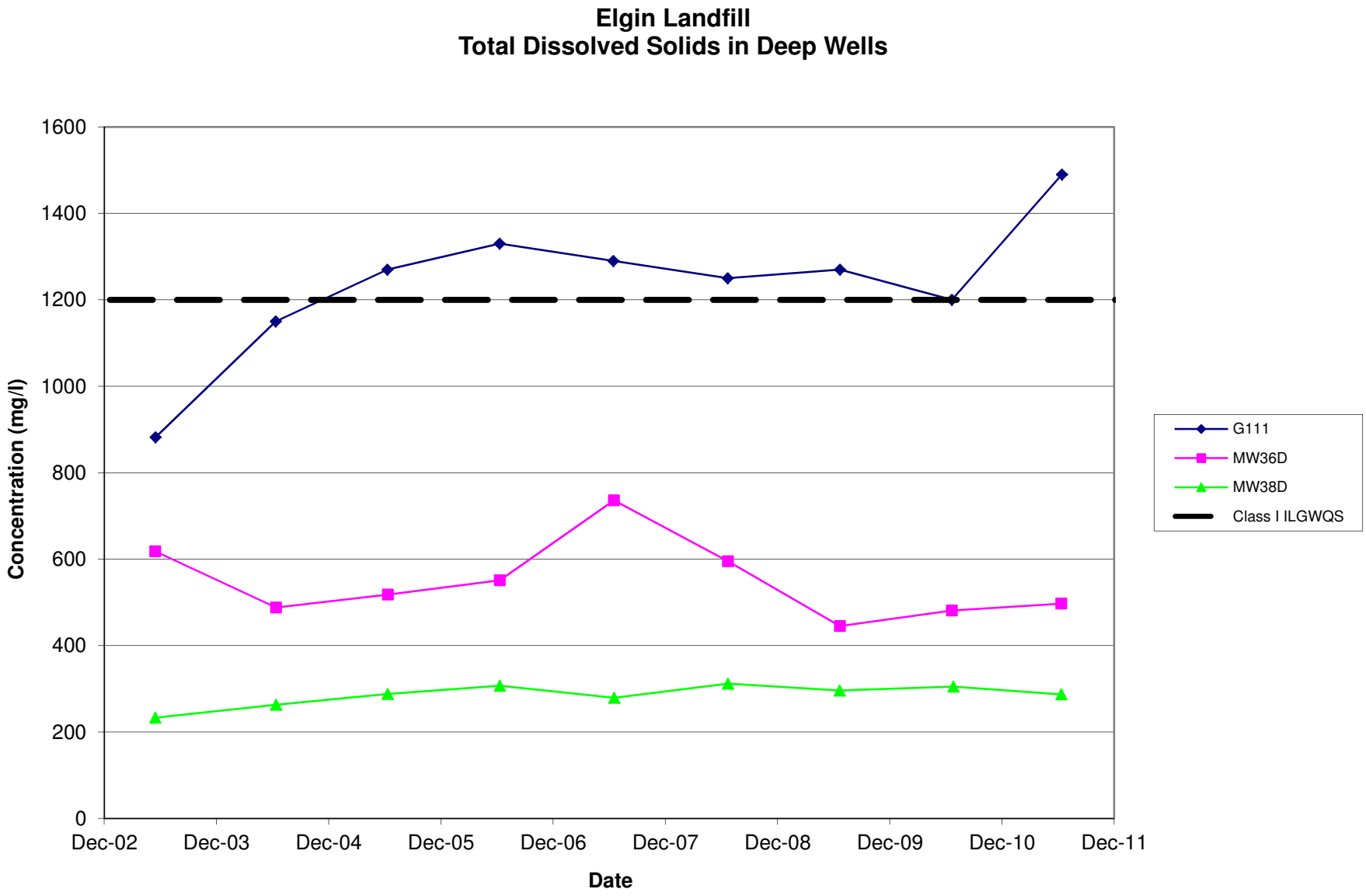

Elgin Landfill
Total Iron in Intermediate Wells
Concentration (mg/l)
20
18
16
14
12
10
8
6
4
2
0
Dec-02
Dec-03
Dec-04
Dec-05
Dec-06
Dec-07
Dec-08
Dec-09
Dec-10
Dec-11
Date
G141
MW22I
MW23I
MW36I
MW38I
Class I ILGWQS


Elgin Landfill
Total Manganese in Intermediate Wells
Concentration (mg/l)
0.6
0.5
0.4
0.3
0.2
0.1
0.0
Dec-02
Dec-03
Dec-04
Dec-05
Dec-06
Dec-07
Dec-08
Dec-09
Dec-10
Dec-11
Date
G141
MW22I
MW23I
MW36I
MW38I
Class I ILGWQS


Elgin Landfill
Chloride in Deep Wells
Concentration (mg/l)
600
500
400
300
200
100
0
Dec-02
Dec-03
Dec-04
Dec-05
Dec-06
Dec-07
Dec-08
Dec-09
Dec-10
Dec-11
Date
G111
MW36D
MW38D
Class I ILGWQS


Elgin Landfill
Total Iron in Deep Wells
Concentration (mg/l)
12
10
8
6
4
2
0
Dec-02
Dec-03
Dec-04
Dec-05
Dec-06
Dec-07
Dec-08
Dec-09
Dec-10
Dec-11
Date
G111
MW36D
MW38D
Class I ILGWQS


Elgin Landfill
Total Manganese in Deep Wells
Concentration (mg/l)
1.0
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0.0
Dec-02
Dec-03
Dec-04
Dec-05
Dec-06
Dec-07
Dec-08
Dec-09
Dec-10
Dec-11
Date
G111
MW36D
MW38D
Class I ILGWQS


Elgin Landfill
Total Dissolved Solids in Deep Wells
Concentration (mg/l)
1600
1400
1200
1000
800
600
400
200
0
Dec-02
Dec-03
Dec-04
Dec-05
Dec-06
Dec-07
Dec-08
Dec-09
Dec-10
Dec-11
Date
G111
MW36D
MW38D
Class I ILGWQS