REPORT

CORRECTIVE ACTION PLAN

Henderson County Closed Municipal Solid Waste Landfill, Permit No. 45-01

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1.0 INTRODUCTION

The following sections of this Corrective Action Plan (CAP) for the closed Henderson County Landfill (the Facility) provide general Facility information and background information regarding historical compliance monitoring activities that have led to the submittal of this CAP to the North Carolina Department of Environment and Natural Resources (NC DENR).

1.1 General Site Information and Background

Henderson County (the County) owns and maintains the closed Facility, which consists of a closed municipal solid waste (MSW) landfill and a closed construction and demolition (C&D) landfill, under Permit No. 45-01 issued by NC DENR. The location of the facility is shown on the inlay on Drawing 1. As presented, the Facility is located approximately 3 miles northwest of the city of Hendersonville, off Stoney Mountain Road. The Facility is approximately 120 acres, and consists of a closed, unlined C&D landfill over an unlined MSW landfill; a recently closed, unlined C&D landfill; a closed, unlined landfill formerly operated by the Tennessee Valley Authority (TVA); a closed, unlined pre-regulation landfill; an active transfer station; and a customer convenience area. A white goods area, a yard waste disposal area, and a beneficial reuse area are located at the pre-regulation landfill. A Facility site map is presented as Drawing 1.

Unpermitted waste was discovered along the eastern portion of the southern property boundary in 2011, during the construction of a road to the new customer convenience center. The waste, which appears to consist of mainly C&D material, extends off-site to an adjacent parcel. NC DENR was informed of the discovery and the County has purchased the affected properties.

The MSW facility is subject to Assessment Monitoring in accordance with .1634 of the Solid Waste Management Rules (SWMR) and the Transition Plan for the facility. The C&D facility is subject to water quality monitoring in accordance with the January 1, 2007, revision to the C&D Rules (.0544 of the SWMR). Water quality monitoring is also required for the TVA landfill.

Based on the documented volatile organic compound (VOC) exceedances of applicable groundwater standards, the County submitted an Additional Groundwater Assessment Proposed Work Plan to NC DENR on March 26, 2008. NC DENR approved the Work Plan on April 17, 2008, and the County submitted the Assessment Report on June 3, 2008. As part of the Assessment Report, assessment monitoring wells AMW-2S and AMW-2D were installed to further delineate the VOC plume. As part of this submittal, Camp Dresser & McKee (CDM) recommended that AMW-2S and AMW-2D continue to be sampled semi-annually. On September 17, 2009, representatives of the County and Golder Associates NC, Inc. (Golder) met with NC DENR, and submitted a Groundwater Assessment Work Plan to NC DENR to address continued assessment activities at the MSW and C&D facilities. During the meeting, it was verbally agreed that monitoring well MW-9 would no longer be sampled and would remain in use for water

level measurements, and wells AMW-1S, AMW-1D, AMW-2S, and AMW-2D would be sampled for analysis of NC Appendix I constituents plus mercury. Follow-up emails were received on September 18, 2009, regarding approval to discontinue monitoring activities at MW-9, and on February 2, 2010, regarding approval of reduced analytical parameters for the four assessment monitoring wells (AMW-1S, AMW-1D, AMW-2S, and AMW-2D). A letter from NC DENR dated May 12, 2011, subsequently requested that the County initiate annual groundwater monitoring of MW-9 to monitor groundwater from the TVA landfill.

In July 2012, Henderson County submitted a Nature and Extent Study (NES) to the NC DENR with the purpose of delineating the vertical and horizontal extent of those constituents identified in the groundwater samples at concentrations that exceed their respective groundwater standards. The NC DENR granted approval of the NES on October 18, 2012. The October 18, 2012, NES approval letter required the County to initiate an Assessment of Corrective Measures (ACM) per 15A NCAC 13B.1635 of the NC Solid Waste Management Rules. The ACM was submitted to the NC DENR on April 15, 2013, and was approved on May 22, 2013.

The ACM indicated that groundwater contaminated with chlorinated and aromatic hydrocarbons in excess of NC 2L Standards is present in two distinct plumes located on the southwestern and southern boundaries of the Facility. The ACM documented an understanding that the contaminants extend beyond the Facility boundary and into the bedrock aquifer, requiring by NC DENR an active remedial approach. The ACM notes that the combination of institutional controls with the selected corrective action may provide optimal remedial effectiveness, and provided detailed evaluations of the following potential corrective action alternatives:

- Monitored natural attenuation (MNA)
- *In situ* enhanced bioremediation (EB)
- *In situ* chemical oxidation (ISCO)
- *In situ* nano-scale zero-valent iron (ZVI)

As presented in the ACM, scoring of natural attenuation indicators indicated that MNA is a viable remedial strategy to address the VOC plumes. The ACM presented an evaluation of corrective action alternatives, which indicated that EB would also be an effective and cost-beneficial corrective action to reduce contaminant concentrations in the groundwater plumes and facilitate a reduction in the area of the groundwater plumes. Therefore, the combination of these remedies is selected and proposed in this CAP, as follows:

- Concentrations of constituents-of-concern (COCs) exceeding NC 2L Standards in the bedrock aquifer will be targeted using an active remedy (i.e., EB).

- MNA will be applied to the remaining plume areas with COC concentrations exceeding NC 2L Standards, primarily located in the saprolite and partially weathered rock zones of the uppermost aquifer.

Later sections of this CAP describe the selected remedies and their implementation in detail.

1.2 Aquifer Characteristics

Geologically, the Facility is located within the Chauga Belt of the Piedmont Physiographic Province of North Carolina (NCGS, 1985). The Chauga Belt is comprised of Cambrian intrusive metamorphic rocks of monzonitic to granodioritic origin. The Chauga Belt is considered a low-grade metamorphic part of the Inner Piedmont Belt and is bordered to the west by the Brevard thrust fault zone. The Facility is underlain primarily by the Henderson Gneiss, which is a medium-gray, biotite granite augen composed of microcline, oligoclase, quartz, biotite, and minor amounts of muscovite, epidote, and titanite (Horton and McConnell, 1991). A geologic map of the area of the Facility is presented as Figure 1.

The topography of the area is characterized by rolling, rounded hills with broad valleys and moderately steep ravines typically containing streams. A topographic map of the Facility is presented as a map inset in Drawing 1. The uppermost groundwater beneath the Facility is present in a shallow, unconfined aquifer comprised of saprolite and partially weathered, fractured, metamorphic, intrusive rock. Topographic relief at the site ranges from an elevation of approximately 2,590 feet above mean sea level (AMSL) along the eastern property boundary and slopes downward to the southwest to an approximate elevation of 2,170 feet AMSL along the western property boundary. As a result of the varying topographic relief at the site, groundwater occurs at depths of ranging from approximately 6 to 55 feet below grade. Monitoring well construction details and historical depth-to-water measurements are summarized in Tables 1 and 2, respectively. A potentiometric surface contour map using elevation measurements collected in March 2015 is presented as Drawing 2.

As presented in Drawing 2, the groundwater flow direction in the upper portion of the shallow aquifer is generally toward the southwest toward the headwaters of Mill Pond Creek, and toward intermittent and perennial on-site tributaries to Mill Pond Creek. A perennial tributary to Mill Pond Creek is located along the western property boundary of the site, and is an interpreted groundwater discharge zone for the water table aquifer in the western region of the site. An intermittent tributary to Mill Pond Creek is located in the central portion of the site, to the south / southeast of compliance monitoring well MW-7. Lastly, the headwaters of Mill Pond Creek are located along the eastern margin of the closed MSW landfill, including perennial and intermittent sections.

Based on the groundwater surface contour map (Drawing 2), the average hydraulic gradient in the shallow aquifer underlying the MSW landfill was calculated to be 0.084 to 0.085 foot/foot during the March 2015 event (Table 3) using the following equation:

$$i = h_L/L$$

where i = hydraulic gradient (foot/foot), h_L = head loss (elevation difference in feet), L = length (horizontal distance in feet)

An average hydraulic conductivity of 1.12E-04 centimeter/second has been calculated for the uppermost aquifer based on measured hydraulic conductivities for Facility wells. An estimated effective porosity of 0.15 is used for the shallow aquifer to represent a range from saprolite to fractured rock (CDM, December 2008). Using these values, the estimated rate of groundwater flow for the uppermost aquifer beneath the facility was calculated using the following modified Darcy equation:

$$V_{gw} = Ki/n_e$$

where V_{gw} = average linear velocity (feet/year), K = hydraulic conductivity (feet/year), i = horizontal hydraulic gradient, and n_e = effective porosity.

The average estimated linear groundwater flow velocity under the MSW landfill was calculated to be approximately 65 feet/year during the during the March 2015 event, which is consistent with previous estimates. Groundwater flow rates are expected to vary depending on the hydrogeologic unit in which it occurs, and the linear velocity equation utilized is based on the simplified assumptions of a homogeneous and isotropic aquifer. Therefore, this equation represents a likely average value for the uppermost aquifer and does not account for heterogeneous and/or anisotropic conditions that may be present.

Nested monitoring wells Old MW-1 and MW-1, Old MW-2 and MW-2, AMW-1S and AMW-1D, and AMW-2S and AMW-2D were used to determine the vertical gradient by dividing the difference in groundwater elevation measured in each well by the difference in vertical elevation of the mid-point of the submerged screened intervals. The vertical gradients were calculated using the following equation:

$$i_v = h_L/L$$

where i_v = vertical hydraulic gradient (foot/foot), h_L = head loss (elevation difference in feet), and L = length (vertical distance in feet).

Two nested well pairs (AMW-1S/1D and AMW-2S/2D) are located in the southwestern portion of the site downgradient of the MSW landfill. Well pair AMW-2S/2D is located closer to the unnamed tributary of Mill Pond Creek along the western facility boundary. As presented in Table 4, there is a downward vertical gradient of groundwater flow at AMW-1S/1D (located farther from the stream) and an upward component of groundwater flow at AMW-2S/2D (located closer to the stream). Based on historical evaluations of

stream elevation and water table elevation in AMW-2S, this perennial tributary to Mill Pond Creek is interpreted to be a receiving stream.

Nested well pair Old MW-2 / MW-2 is located near the southern Facility boundary due south of the MSW landfill. Based on the data presented in Table 4, a downward component of groundwater flow is measured at Old MW-2 / MW-2. Based on an evaluation of the elevation of an unnamed stream adjacent to Old MW-2 / MW-2 and water table elevation in the region of Old MW-2, the unnamed stream is likely to be a receiving stream during parts of the year. The stream's intermittent status, as mapped in the vicinity of Old MW-2 / MW-2, is also an indicator that groundwater discharge occurs, but only seasonally or periodically during or after precipitation events when the water table is elevated.

Nested well pair Old MW-1 / MW-1 is located near the southern Facility boundary, south of the MSW landfill and convenience center Based on the data presented in Table 4, a downward component of groundwater flow is measured at Old MW-1 / MW-1. In the 2012 NES, an upward component of groundwater flow was calculated for Old MW-1 / MW-1. Based on the mapped perennial status of the nearby stream, the stream is likely to be a receiving stream, corresponding to an upward component of groundwater flow. The low, fluctuating gradients calculated at Old MW-1 / MW-1 represent a transition area from downward gradients closer to the landfill to upward gradients at the stream.

1.3 Contaminant Distribution

The following sections describe the horizontal and vertical extent of contamination at the Facility. A discussion of the general distribution is presented in Section 1.4 of this CAP, which presents the site conceptual model.

1.3.1 Horizontal Extent of Observed Groundwater Contamination

A detailed description and mapping of the Facility's VOC plumes are presented in the July 23, 2012, NES. Please refer to this document for these details, and a summary of the horizontal VOC plume extents is presented in this report section.

As presented in the July 2012 NES, the estimated lateral extent of the dissolved-phase groundwater plumes extends beyond the southern property boundary in two locations along the southern and southwestern Facility boundaries. The plumes appear to originate from the waste mass, the interpreted source of the COCs, and extend downgradient. The first location is in the southwestern corner of the Facility where the groundwater plume extends onto property owned by Henderson County and where nested well pairs AWM-1S / AMW-1D and AMW-2S / AMW-2D are located. The groundwater plume appears to extend to the region of the western property boundary, which is bounded by an unnamed stream. Based on the receiving nature of the stream, the observed hydraulic gradient, and the VOC concentrations measured in nested monitoring wells AWM-1S / AMW-1D and AMW-2S / AMW-2D, the

maximum extent of the COCs is interpreted to be this surface water feature. Surface water sampling data from surface water monitoring point BR-3 indicate that potential discharge of VOCs to the surface water feature has not resulted in impacts above surface water quality standards. The adjacent property, located to the west of the Facility, is a maintenance yard owned by the North Carolina State Highway Commission.

The second location of off-site plume migration is along the southern Facility boundary near well pairs Old MW-1 / MW-1 and Old MW-2 / MW-2 where the groundwater plume is interpreted to extend beyond the Facility boundary towards Stoney Mountain Road. The groundwater plume may also extend onto the school bus maintenance facility owned by Henderson County, located adjacent to the landfill north of Stoney Mountain Road. The groundwater plume may extend beyond the Facility boundary onto a "landlocked" property between the landfill and other property owned by Henderson County. Surface water sampling data from surface water monitoring points BR-1 and BR-1 indicate that potential discharge of COCs to the surface water feature has not resulted in impacts above surface water quality standards. The potential maximum extent of the groundwater plumes is the perennial Mill Pond Creek, located on the south side of Stoney Mountain Road, running parallel to the road. Mill Pond Creek is interpreted to be a hydraulic divide for shallow groundwater flow.

1.3.2 Vertical Extent of Observed Groundwater Contamination

A detailed description and mapping of the Facility's VOC plumes are presented in the July 23, 2012, NES. Please refer to this document for these details, and a summary of the vertical VOC plume extents is presented in this report section.

There are four sets of nested monitoring wells (Old MW-1 and MW-1, Old MW-2 and MW-2, AMW-1S and AMW-1D, and AMW-2S and AMW-2D) at the Henderson County Landfill. As presented in the July 2012 NES, VOC concentrations are higher in AMW-1D, which is screened in the partially weathered rock / upper fractured bedrock hydrogeologic unit, when compared to AMW-1S, which is screened in the shallower saprolite hydrogeologic unit. This finding is consistent with calculated downward vertical flow gradients at this location, indicating a downward vertical component of flow in this area. Further downgradient, AMW-2S, which is screened in the shallow saprolite hydrogeologic unit, has higher total VOC concentrations than AMW-2D, which is screened in the bedrock hydrogeologic unit. This finding is also consistent with calculated vertical flow gradients at this location, indicating an upward vertical component of flow at this location. Nested wells AMW-2S and AMW-2D are located next to an unnamed stream along the western Facility boundary, which is interpreted to represent a receiving stream and a groundwater divide for shallow groundwater flow.

Total VOC concentrations are higher in Old MW-1, which is screened in the shallow saprolite hydrogeologic unit, than MW-1, which is believed to be screened in the partially weathered rock

hydrogeologic unit. A downward vertical flow gradient is calculated for this area of the plume using 2015 data; however, data used in the preparation of the 2012 NES indicated an upward gradient, as discussed in Section 1.2.

With regard to well pair Old MW-2 and MW-2, total VOC concentrations are higher in Old MW-2, which is screened in the shallow saprolite hydrogeologic unit, than in MW-2, which is believed to be screened in the partially weathered rock hydrogeologic unit. This finding is consistent with the upward vertical flow gradient that is calculated for this area of the plume.

1.4 Site Conceptual Model

The landfill is generally situated on the southwestward-facing slope of Stoney Mountain. The Facility contains the headwaters to Mill Pond Creek (eastern on-site stream) and a perennial tributary to Mill Pond Creek (western on-site stream), as presented on Drawing 1. Mill Pond Creek is mapped by the United States Geological Survey as a perennial stream that trends northwest / southeast in the region of the Facility, with flow to the northwest, converging on the French Broad River to the northwest of the Facility. Topographic and surface water drainage features in the area of the Facility appear to exhibit a trellis drainage pattern with primarily northwest/southeast and northeast/southwest trends, indicative of a structural influence on their orientation. As presented in the geologic map (Figure 1), the strike of the foliation of the Henderson gneiss that underlies the Facility is dominantly northeast to southwest. The on-site headwaters to Mill Pond Creek and tributaries to Mill Pond Creek share this trend.

Geologically, the Facility is located at the western margin of the North Carolina Piedmont Physiographic Province, with the Blue Ridge fault zone and Blue Ridge Province located to the west / northwest. Within the Piedmont, a layer of saprolitic soils typically grades downward to partially weathered rock, further grading downward to relatively competent, yet typically fractured, bedrock. The underlying bedrock at the Facility has been mapped by various state and federal agencies as the Henderson gneiss, which locally exhibits both schistosic and gneissic textures. The uppermost aquifer beneath the Facility is found within the unconfined, saprolite aquifer. Due to the relic bedrock fabric that is present within the saprolite, the hydraulic properties of the uppermost aquifer are anisotropic, such that there is a preferred groundwater flow and contaminant transport direction (K_x).

Static water level data from nested wells at the site indicate that recharge to the uppermost aquifer appears to occur primarily along topographically high areas (ridge lines), with topographic low areas (valleys) serving as groundwater discharge areas for local stream channels. Specifically, potentiometric surface data indicate that downward vertical gradients are typically measured in the higher elevation portions of the Facility, located relatively far from the streams. The vertical gradients typically approach neutral and reverse to an upward vertical gradient as a perennial stream is approached, indicating discharge of the uppermost aquifer groundwater to the stream.

As presented in the ACM, the estimated lateral extent of the dissolved-phase groundwater plumes extends beyond the southern and southwestern portions of the property boundary in two locations. The plumes appear to originate from the waste mass, the interpreted source of the VOCs, and extend downgradient. The first location is in the southwestern corner of the facility where the groundwater plume extends onto property owned by Henderson County at the new landfill entrance, and where nested well pairs AWM-1S / AMW-1D and AMW-2S / AMW-2D are located. The groundwater plume appears to extend to the region of the western property boundary, which is bounded by an unnamed stream. Based on the receiving nature of the stream, which is interpreted to represent a hydraulic divide and discharge zone for shallow groundwater flow, and based on the observed vertical hydraulic gradient and VOC concentration gradients observed in the nested monitoring wells (AWM-1S / AMW-1D and AMW-2S / AMW-2D), the maximum extent of the VOCs is interpreted to be this surface water feature. The adjacent property, located west of the parcel, is a maintenance yard owned by the North Carolina State Highway Commission.

The second location of off-site plume migration is along the southern facility boundary near well pairs Old MW-1 / MW-1 and Old MW-2 / MW-2, where the groundwater plume is interpreted to extend beyond the Facility boundary towards Stoney Mountain Road. Surface water sampling data from surface water monitoring point BR-2 indicate that potential discharge of VOCs to the surface water feature has not resulted in surface water quality impacts above applicable standards. The interpreted potential maximum extent of the groundwater plume is Mill Pond Creek, located across Stoney Mountain Road. Mill Pond Creek is a perennial stream that is interpreted to represent a hydraulic divide for shallow groundwater flow.

In summary, the conceptual site model for groundwater flow and VOC transport is typical of that of the Piedmont Physiographic Province, summarized as follows:

- Typically downward vertical gradients are measured in relatively upland recharge areas. The partially weathered rock (PWR) zone (grading from saprolite to relatively competent, fractured rock) acts as a preferred flow zone between the recharge and discharge areas, contributing and/or causing the downward vertical component of flow into this zone within recharge areas.
- Neutral, then upward vertical gradients are measured as groundwater discharge features are approached, typically mapped as local perennial streams.
- Parent rock features / fabric, such as foliation, provide anisotropic conditions for groundwater flow.
- Contaminant transport mimics groundwater flow, but at a slightly retarded rate. Though a preferred pathway for contaminants transport is typically found within PWR, components of groundwater flow and associated VOC transport will occur within the saprolite and upper portion of the fractured bedrock aquifer.

1.5 Regulatory Status

As presented in additional detail in Section 1.1, the County submitted an Additional Groundwater Assessment Proposed Work Plan to NC DENR on March 26, 2008. The purpose of the work plan was to collect additional groundwater quality information regarding the VOCs. The work plan was approved by NC DENR on April 17, 2008. After implementing the additional assessment activities, the County submitted the Assessment Report on June 3, 2008.

In July 2012, Henderson County submitted a NES to the NC DENR with the purpose of delineating the vertical and horizontal extent of VOCs identified in the groundwater samples at concentrations that exceed their respective groundwater standards. The NC DENR granted approval of the NES on October 18, 2012. The October 18, 2012, approval letter of the NES required the County to initiate an ACM per 15A NCAC 13B.1635 of the NC Solid Waste Management Rules. The County submitted the ACM to NC DENR on April 15, 2013. The ACM was approved by the NC DENR on May 22, 2013. The County held a public hearing to discuss the ACM and potential remedies for the site on August 15, 2013. The County submitted a groundwater Corrective Action Permit Modification Application on March 3, 2015, which was approved by the NC DENR on March 11, 2015.

In accordance with the NC Solid Waste Management Rules, the County is submitting this CAP to NC DENR. This CAP presents details regarding the implementation of corrective actions and performance monitoring of the selected remedies for the Facility's above-standards groundwater quality impacts.

2.0 CONTAMINANT CHARACTERIZATION

The following sections of this CAP identify the COCs and describe their source, impacted media, and risks associated with these conditions.

2.1 Contaminants of Concern

As presented in the July 2012 NES and April 2013 ACM, the following VOCs are identified as COCs for corrective action:

- Benzene
- 1,4-Dichlorobenzene
- 1,1-Dichloroethane
- Methylene chloride
- Tetrachloroethene
- Trichloroethene
- Vinyl chloride

As presented above, Facility COCs are primarily chlorinated aliphatic hydrocarbons. Two aromatic hydrocarbons (benzene and 1,4-dichlorobenzene) are also COCs.

2.2 Contaminant Source Confirmation

As presented in the NES and ACM, groundwater assessment activities indicate that the two primary VOC plumes identified for targeted corrective measures originate from the waste mass of the MSW landfill. Source reduction measures such as capping and a landfill gas venting system are employed at the Facility to reduce groundwater quality impacts from leachate and landfill gas. However, due to the nature of the source (a capped MSW landfill unit), additional active remedial measures in the source area (*i.e.,* within the waste mass) is not considered to be practicable. Therefore, portions of the plume that are accessible for the implementation of active remedial measure(s) begin at the downgradient margin of the landfill to the downgradient above-standards groundwater concentrations at the toe of the plume and/or discharge zone to surface water.

2.3 Source Control Measures

Most of the source control measures that the County currently has in place at the closed landfill are directed by the NC Solid Waste Management Rules. These rules govern the operation and maintenance of the closed landfills. As presented in Section 2.2, source control measures for the MSW landfill, from which the VOC groundwater plumes originate, include the following:

- Maintenance of the clay cap and vegetative cover at the landfill, which is designed to minimize additional leachate that could be generated from precipitation percolating through the waste mass to the uppermost aquifer.
- A passive landfill gas venting system that limits the phase-transfer of VOCs in landfill gas to unsaturated and saturated zones of the waste management unit.

2.4 Groundwater End Use

A map showing which properties downgradient of the landfill are served with public water from the City of Hendersonville is provided in Appendix A. The map was provided by the County. As presented in the ACM, the map shows that 10 out of 19 properties adjacent to the landfill and across Stoney Mountain Road receive water from the City. Of the nine properties that were reported as not receiving water from the City, all but two (Lots 3 and 11) are vacant and have no structures. Since the submittal of the ACM, the County has offered connections to the public water supply to the two residential lots (Lot 3 and 11) that were served by private water supply wells. The owners have accepted the County's offer and are now supplied with public water. Therefore, the occupied properties located downgradient of the landfill, presented in Appendix A, are connected to the public water supply.

2.5 Sensitive Receptors and Exposure Pathways

As presented in the April 2013 ACM, a risk assessment (RA) was performed to evaluate potential risks to human health. The purpose of the RA was to assess the potential risk to future receptors under a residential land-use scenario related to the quantified groundwater COC concentrations at monitoring points associated with the documented release.

Groundwater is interpreted to be impacted directly by the landfill, and surface water may be impacted by the discharge of impacted groundwater to surface water features. Due to the interpretation of landfill waste as the direct source of groundwater impacts, soil as an impacted medium was not included in the RA. A quantitative RA was performed to evaluate potential risk to human receptors related to the following potential exposure pathways:

- Ingestion of impacted groundwater by potential human receptors
- Dermal contact with impacted groundwater by potential human receptors
- Inhalation of vapors related to impacted groundwater by potential human receptors

COCs for the RA were identified as VOCs detected at concentrations in groundwater in exceedance of the NC 2L Standards since September 2009 (i.e., approximately the past 3 years at the time of the ACM). Representative concentrations selected for use in the RA were the maximum COC groundwater concentration measured since September 2009.

The RA was based on residential land use, and the transport of simulated groundwater COC concentrations to a potential downgradient receptor was not required because the risk at the point of release, prior to the simulation of natural attenuation processes during contaminant transport, was evaluated. As presented in the ACM, the hazard index for the COCs (14.4) exceeded the hazard index threshold of 1.0, and the cumulative carcinogenic risk was calculated to be 1.29×10^{-4}, which exceeds the acceptable cumulative risk threshold of 1.0×10^{-4} to 1.0×10^{-6}. Therefore, an unacceptable level of risk to potential human receptors was calculated for the measured groundwater impacts under a residential land-use scenario. The results of the RA indicated that controls are required to minimize the potential for exposure to potential receptors and/or corrective actions are appropriate to reduce or eliminate groundwater impacts until such time that an acceptable level of risk is present.

Regarding potential ecological exposure, exposure to the capped MSW landfill waste mass is limited, and impacted groundwater originates at the water table beneath the MSW landfill. The water table depth is approximately 8 to 25 feet below ground surface in the region of the plumes, minimizing direct ecological exposure to impacted groundwater. As presented in Section 1.4, groundwater discharge to surface water is interpreted to occur along selected sections of the on-site tributaries to Mill Pond Creek and headwaters to Mill Pond Creek. However, as presented in Table 5, surface water monitoring data do not

indicate COC impacts in excess of surface water quality standards. Table 6 summarizes field parameters for the surface water monitoring points.

2.6 Background Concentrations

COCs for the Facility are identified as organic compounds, specifically VOCs, that are interpreted to originate from the MSW landfill waste mass. No naturally occurring concentrations of the organic COCs are expected, and no groundwater quality assessment data have indicated an off-site, upgradient source of COCs in groundwater. Therefore, no background concentrations of the COCs are identified.

2.7 Exceedances of Groundwater Quality Standards

Historical analytical data for groundwater samples collected at the Facility are presented in Table 7. Historical exceedances of NC groundwater quality standards are shown in bold. Table 8 summarizes field parameters for the groundwater monitoring well samples.

2.8 Exceedances of Surface Water Quality Standards

Historical analytical data for surface water samples collected at the Facility are presented in Table 5. Concentrations shown in bold indicate exceedances of available surface water quality standards.

2.9 Media of Concern

Due to historical COC impacts in excess of quality standards (see Tables 5 and 7), media of concern are the following:

- Groundwater
- Surface water

3.0 SELECTED AND APPROVED REMEDY / TECHNICAL APPROACH

The following sections of this CAP identify the remedial objective, the selected and approved remedies, and the technical approach for remedy implementation.

3.1 Remedial Objective

The remedial objective is to reduce groundwater COC concentrations to below NC 2L Standards, facilitating the protection of potential downgradient sensitive receptors, and returning groundwater quality to unrestricted use.

For added detail and perspective, the following key factors specific to this Facility are provided:

- The source of the COCs in groundwater at the Facility is the closed MSW landfill. Due to the size and closed condition of the landfill, direct remediation of the source is not considered in this CAP to be practicable. Therefore, the remedy is implemented at the

downgradient edge of the landfill with the intent of treating the downgradient portion of the plume.

- NC DENR has requested an active remedy for portions of the Facility due to the presence of bedrock aquifer impacts.
- Natural attenuation is suitable for application within the shallow, saprolite aquifer where the protection of sensitive receptors is monitored and confirmed.

3.2 Selected Remedies

As presented in detail in the ACM and summarized in Section 1.1 of this CAP, several remedial alternatives were identified for potential implementation at the Facility to remediate above-standards groundwater quality impacts. A summary of screening results of corrective measures considered is provided as Table 9. Two remedies have been selected for implementation at the Facility, as follows:

- EB
- MNA

EB, which was selected in the ACM as the most advantageous active remedy, is the selected remedy for the lower PWR / fractured bedrock aquifer groundwater impacts. The EB remedy will be first assessed via pilot-scale implementation and, with favorable performance evaluations, full-scale implementation of the EB remedy will be applied.

MNA will be applied for the remediation of the impacted, uppermost aquifer that is situated within the PWR and saprolite aquifer zone. MNA is an appropriate remedy for the evaluation of naturally occurring COC degradation and confirmed protection of potential sensitive receptors.

4.0 REMEDY DESIGN AND SPECIFICATIONS

The following sections of this CAP provide detailed design information for implementing the selected remedies, EB and MNA. Since an EB pilot test is proposed, from which additional design information will be obtained, this CAP provides design specifications for the pilot-scale remedy. However, with acceptable or better performance of the EB pilot test, it is expected that EB will be applied as the full-scale remedy, anticipated to be implemented in the same or similar manner. The County will present intended design modifications for the EB remedy, if any, in the pilot test performance report to NC DENR, as described later in this document in Section 6.0.

4.1 Horizontal and Vertical Extent of Targeted Plume

Key factors for corrective action (CA) design are presented in Table 10. As presented in Table 10, three primary areas of impact (i.e., plumes) have been currently and historically discerned based on available data, originating near the locations of MW-6, MW-7, and MW-8. The suites of COCs present, the portion of the impacted aquifer (i.e., fractured bedrock aquifer, PWR, or saprolite), the plume extent (i.e., on-site /

off-site), and potential downgradient receptors are different for each area, requiring area-specific design considerations for CA.

4.1.1 Targeted Plume for EB

The lower PWR to fractured bedrock portion of the plume is targeted for the EB pilot scale remedy. Due to the historical COC concentrations present in the lower PWR / fractured bedrock aquifer in the plume originating near MW-6, this portion of the plume, monitored by monitoring well AMW-1D, is selected for the EB pilot test. As presented in Table 10, the primary COCs in the plume originating near MW-6 are aromatic COCs (benzene and 1,4-dichlorobenzene) and a chlorinated aliphatic COC (vinyl chloride). Benzene and vinyl chloride have been historically present in samples collected from monitoring well AMW-1D at concentrations above the NC 2L Standards. These COCs are preferentially biodegraded under aerobic conditions. Therefore, the bioremediation of these COCs may be enhanced by the addition of oxygen to the aquifer.

The EB pilot study is designed to be sufficiently small in area to permit, build, inject, monitor downgradient groundwater treatment, and provide annual adjustments (as needed) within a 3-year period. Therefore, it is appropriate to select an area over which both treatment and downgradient monitoring of groundwater may be accomplished in an approximate 12-month period (i.e., within an estimated 12-month COC transport distance). As presented in Section 1.2, the estimated maximum COC transport rate (i.e., groundwater advective flow rate) within porous media is 65 feet/year. Due to variability in groundwater flow rates and the attenuation of COCs during groundwater transport, a flow path of less than 65 feet is recommended to facilitate timely evaluations of remedy performance. The horizontal placement of the pilot test is selected as a representative plume center-line (i.e., a groundwater flow path along which the highest groundwater concentrations are measured for the discrete plume).

The horizontal and vertical location of the bedrock aquifer plume originating near MW-6 is presented in the plan view and cross-sectional diagrams presented in Drawing 3. As presented in Drawing 3, an approximate 40-foot transport pathway is present upgradient of AMW-1D, prior to encountering the Facility property line. Therefore, the accessible locations for implementation of the pilot test lie within approximately 40 feet of monitoring well AMW-1D, in the upgradient (northeastern) direction. The vertical location of the measured COC concentrations in the lower PWR / fractured bedrock aquifer in this region of the plume (*i.e.,* at AMW-1D) is approximately 50 to 60 feet below ground surface (BGS). Based on this information, a horizontal transect along which the EB pilot test will be implemented is presented in plan and cross-sectional view in Drawing 3. For cost efficiency, monitoring well AMW-1D will be utilized as a performance monitoring well for the pilot-scale CA. Pilot-scale injection is proposed via a single injection well located approximately 25 feet upgradient of AMW-1D. Based on the vertical distribution of the targeted COC plume in the area of the injection well, the injection well will be approximately 65 feet deep

with a 20-foot screen located approximately 45 to 65 feet BGS, as presented in cross-sectional view in Drawing 3.

As presented above, an approximate 25-foot flow path is selected over which the effects of the pilot-scale remedy between the injection well and downgradient performance monitoring wells will be monitored. As presented previously, an advective flow rate of approximately 65 feet/year is calculated for the water table aquifer, though the transport rate through the fractured bedrock is likely to be different. Selecting a pilot-scale CA transect of approximately 25 feet provides confidence that the effects of the EB pilot test will be observed within a 12-month timeframe, with performance monitoring and potential pilot-scale adjustments, if required, within the proposed 3-year pilot test timeframe.

4.1.2 Targeted Plume for MNA

MNA is the selected remedy for the portions of the plumes containing concentrations of COCs above the NC 2L Standards in the upper portions of the impacted aquifer (*i.e.*, saprolite and the transition zone from saprolite to PWR). As presented in Section 2.5, natural attenuation is the current CA mechanism that is providing sufficient protection of potential groundwater receptors, as indicated by monitoring data. MNA will provide monitoring of this process under the CA program, allowing for more detailed performance evaluations and formalized monitoring of sensitive receptor protection.

4.2 Implementation of Corrective Actions

The following sections of this CAP provide detailed information regarding the implementation of the selected EB and MNA remedies. While MNA will be implemented as a full-scale remedy, the implementation of EB will be initiated on a pilot-test scale to facilitate performance evaluations and design criteria for the anticipated full-scale application.

4.2.1 EB Pilot Test Implementation

The following sections provide details regarding the implementation of the proposed EB pilot test.

4.2.1.1 EB Pilot Test Permitting

Due to the addition of a material to the subsurface, an Underground Injection Control (UIC) permit application will be submitted to NC DENR for approval prior to the initiation of the pilot-scale EB remedy. The UIC permit will require project information and details of the proposed injection infrastructure and substrate. The UIC permit, when granted, includes a required groundwater monitoring program to evaluate the potential effects of the injection substrate on the aquifer. The type of pilot-scale remedy proposed in this CAP is expected to be familiar to the UIC permitting branch of NC DENR, and approval of the application for pilot-scale EB is anticipated.

4.2.1.2 EB Methodology

As presented in Table 10, the MW-6 area plume historically contains the following COCs in groundwater that are targeted during the CA program:

- Vinyl chloride
- Benzene
- 1,4-Dichlorobenzene

Of these COCs, vinyl chloride and benzene have been detected in samples collected from AMW-1D at concentrations in excess of the NC 2L Standards, though the concentrations of vinyl chloride have been below the Solid Waste Section Reporting Limits (SWSLs). Therefore, vinyl chloride and benzene are the COCs located in the lower PWR / fractured bedrock aquifer portion of the plume and targeted during the EB pilot study.

The objective of the pilot-scale CA is to enhance the natural biological attenuation of these COCs, which most efficiently undergo aerobic biodegradation. For vinyl chloride, the following two biodegradation mechanisms are stimulated by the addition of oxygen to the aquifer:

- Vinyl chloride is degraded to carbon dioxide and water by aerobic bacteria. In this process, which occurs within the bacterial cells, vinyl chloride is oxidized during metabolism, providing energy to the bacteria. No other nutrients are required for this process.
- Vinyl chloride is degraded via a co-metabolic process. Specifically, methanotrophs utilize oxygen and methane for their metabolic process. This process produces enzymes (i.e., methane monooxygenase; MMO) that leak from the bacterial cells and degrade vinyl chloride. This co-metabolic process does not supply energy to the bacteria.

For benzene, the following biodegradation mechanism is stimulated by the addition of oxygen to the aquifer:

- Benzene is degraded during aerobic respiration. During aerobic respiration, bacteria catalyze the degradation of benzene (or other hydrocarbons), releasing energy required for the bacteria. Benzene is degraded via oxidation (*i.e.,* it is the electron donor), and oxygen is reduced to form water (*i.e.,* it is the terminal electron acceptor).

As presented above, the presence of oxygen is necessary for these biodegradation processes. Therefore, during the pilot test, oxygen will be added to the targeted portion of the MW-6 area plume in an effort to stimulate the aerobic biodegradation of vinyl chloride and benzene.

The selected mechanism for oxygen delivery for EB is super-aerated water (SAW). The production of SAW is facilitated by the introduction of atmospheric oxygen, as a component of air, to an *ex situ* source of water. The SAW is subsequently injected into the targeted portion of the aquifer to provide elevated concentrations of oxygen to the subsurface. This combination of elevated dissolved oxygen

concentrations and aerobically degraded COCs, such as vinyl chloride and benzene, stimulates the microbiological population that utilize these elements for growth, thus enhancing the biodegradation of the targeted COCs.

As an added benefit, SAW transport is expected to match advective groundwater flow, rather than being retarded, since the physical attenuation of SAW and natural groundwater are substantially the same. Additionally, the subsurface can retain the oxygen for months if it is not consumed.

4.2.1.3 EB Implementation

As presented in the previous section of this CAP, aerobic EB will be implemented via the injection of SAW into the targeted portion of the aquifer. Specifically, SAW will be injected using a single injection well (injection well IW-1; see Drawing 3) screened within the lower PWR / fractured rock aquifer portion of the MW-6 area plume.

To generate SAW, a potable water supply, available at the Facility, will be filtered for the removal of chlorine, if present, which is capable of reducing the beneficial bacterial population rather than stimulating the bacterial population. An approximate 500-gallon tank will be filled with the filtered water. To generate the SAW, atmospheric air will be introduced to the potable water via injection within a holding tank. A compressor will be utilized to supply air to the water tank, and the air will be bubbled through the standing water column to facilitate the dissolution of atmospheric oxygen into the water, producing SAW. A supplement, potassium bicarbonate (or similar product), will be added to the SAW prior to injection. Potassium bicarbonate is added as a pH buffering agent, which will counteract the potential acidification of the SAW (which may occur via the introduction of atmospheric carbon dioxide). Prior to injection, the pH, temperature, oxidation-reduction potential (ORP), dissolved oxygen (DO), and turbidity of the SAW will be measured. A DO concentration equal to or exceeding 12 milligrams per liter (mg/L) is expected.

Due to the potential duration of the remedy, an extended, relatively low complexity delivery system is proposed to facilitate delivery system reliability (via simplicity) and maximize operations conducted by County personnel for logistical ease and cost efficiency. SAW will be introduced to the PWR / fractured bedrock aquifer via injection well IW-1 under gravity flow. Because the average potentiometric surface measured in performance monitoring well AMW-1D is approximate 15 feet BGS, a minimum injection pressure of 5 pounds per square inch (PSI) is expected during injection. Approximately 500-gallon batches of SAW will be produced for individual injection events. The injection will proceed until the batch of SAW has been introduced into the aquifer via gravity flow. The initial injection will include four, 500-gallon batches, for a total proposed injection of 2,000 gallons of SAW to the PWR / fractured rock aquifer during the pilot-scale test. Injections 2 - 4 will be implemented when field geochemical conditions in the injection well and/or performance monitoring well indicate a decline in dissolved oxygen and/or aerobic conditions in the portion of the aquifer targeted during the pilot test.

4.2.1.4 Injection and Performance Monitoring Well Design

As presented above, a single injection well will be utilized for the EB pilot test. For cost efficiency, existing PWR / fractured bedrock monitoring well AMW-1D will be utilized as the performance monitoring well for the pilot-scale CA.

The boring advanced for the pilot test injection well will have a 6- to 8-inch nominal outer diameter, advanced using air rotary techniques. Drill cuttings and drilling rig performance indicators will be logged to provide geologic information during boring advancement. The boring for proposed injection well IW-1 will be advanced to approximately 2,125 feet AMSL (approximately 65 feet BGS). Injection well IW-1 will be installed using 2-inch diameter Schedule 40 PVC casing and appropriately slotted screen. The size of the sand filter pack material will be selected based on the slot size of the well screen, since the screen is located within PWR / fractured bedrock. Approximately 20 feet of screen will be installed at the base of the well. The sand filter pack will extend approximately 2 feet above the top of the screen, followed by a minimum 2-foot hydrated bentonite seal, followed by bentonite-cement grout to the ground surface. The injection well will be protected by a locking well cap and flush-mount manhole or a well cap and locking stick-up protective cover.

The performance monitoring well for the pilot-scale EB remedy is monitoring well AMW-1D. Construction details for monitoring well AMW-1D are presented in Table 1, and a boring and well construction log for AMW-1D is presented in Appendix B.

4.2.2 Implementation of MNA

A detailed description of MNA is presented in the ACM, and a brief overview is presented as follows.

The term “natural attenuation” refers to naturally occurring processes that lead to a decrease in concentrations of COCs in groundwater. Such processes include diffusion, dispersion, volatilization, biodegradation, adsorption, and chemical reactions with other materials in the subsurface. These processes operate in one of three ways:

- Transform a given chemical compound into a different chemical compound (biodegradation, physical degradation)
- Immobilize a chemical constituent or reduce its bioavailability (adsorption)
- Mass transfer (which reduces the concentration but does not reduce the mass of the contaminant: dispersion, diffusion, and volatilization)

Physical processes (e.g., dispersion, dilution, sorption) decrease COC concentrations in groundwater samples. Volatilization may transfer COC mass from the aqueous to vapor phase, but this is often limited by groundwater depth and vadose zone capillary fringe (Chiang et al., 1989). Abiotic chemical reactions (*e.g.,* hydrolysis, oxidation, and mineralization) attenuate COC concentration and mass. Biologically

mediated reduction – oxidation (redox) reactions (*i.e.,* biodegradation) are the primary mechanisms for some COCs. To be considered a viable option for groundwater remediation, natural attenuation processes must remove constituent mass from groundwater or transform constituents to less toxic substances for the protection of human health and the environment.

Monitoring of natural attenuation (*i.e.,* MNA) includes the evaluation of degradation rates and pathways, the measurement of aquifer geochemical conditions that affect natural attenuation processes, and confirmation of the protection of potential sensitive receptors. Surface water and groundwater monitoring, with subsequent data evaluations, are the primary components of MNA. The specific components of these monitoring and evaluation programs are presented in the following section of this CAP.

5.0 CORRECTIVE ACTION PERFORMANCE MONITORING

The following sections of this CAP present the proposed corrective action monitoring plan for groundwater and surface water monitoring during implementation of the pilot-scale EB and full-scale MNA remedies. The purpose of the corrective action performance monitoring plan is two-fold:

- Provide performance monitoring data for the CA to facilitate evaluations of the efficacy of the remedy
- Provide sentinel and point-of-exposure monitoring data during CA to maintain an acceptable level of risk to potential receptors

5.1 Corrective Action Performance Monitoring Plans

The proposed corrective action performance monitoring plan for groundwater and surface water monitoring during the EB pilot test and MNA program is presented in the following sections.

5.1.1 EB Pilot Study Performance Monitoring

The objectives of the EB pilot-scale corrective action monitoring program are listed as follows:

- Evaluate the physical distribution, transport, and longevity of SAW in the targeted aquifer zone
  - Measure temporal concentrations of dissolved oxygen and alkalinity in groundwater samples
  - Measure potential changes in potentiometric surface measurements in performance monitoring well(s) during injection events
- Evaluate the conditioning of the aquifer for biodegradation of targeted COCs
  - Measure the ORP, DO, specific conductance, temperature, and pH of the SAW
  - Measure temporal changes in ORP, DO, specific conductance, temperature, and pH at the injection well (post-injection) and performance monitoring well
- Evaluate the performance of the EB remedy with respect to the degradation of targeted COCs
- Evaluate the protection of surface water quality and potential sensitive receptors

The specific components of the AMW-1D area pilot study monitoring program are presented in the following table:

AMW-1D Area Pilot Study Monitoring Program

Monitoring Station Type	Purpose	Station Identification	Measurement Type	Frequency	Monitoring List
Upgradient Well(s)	Background Data for Remedy Evaluation	MW-6	Field	Single pre-injection event; Post-injection = quarterly for 18 months, then semi-annually	pH, temperature, specific conductance, ORP, DO, turbidity
Injection Well(s)	Injection Site Monitoring	IW-1	Field	Single pre-injection event; Post-injection = quarterly for 18 months, then semi-annually	pH, temperature, specific conductance, ORP, DO, turbidity
			Laboratory		COCs* and Alkalinity
Performance Well(s)	Performance Monitoring	AMW-1D	Field	Single pre-injection event; Post-injection = quarterly for 18 months, then semi-annually	pH, temperature, specific conductance, ORP, DO, turbidity
			Laboratory		COCs* and Alkalinity
PWR Well(s)	PWR Monitoring Before Full-Scale Application	MW-2 and AMW-2D	Field	Single pre-injection event; Post-injection = semi-annually	pH, temperature, specific conductance, ORP, DO, turbidity
			Laboratory		COCs*
Surface Water Station(s)	Sensitive Receptor Protection	BR-3	Field	Single pre-injection event; Post-injection = quarterly for 18 months, then semi-annually	pH, temperature, specific conductance, ORP, DO, turbidity
			Laboratory		COCs and Alkalinity

Notes:
* See Section 2.1

5.1.2 Full-scale EB Performance Monitoring

The full-scale CA groundwater and surface water monitoring plan, consisting of similar monitoring components [i.e., injection well(s), performance well(s) and surface water monitoring point(s)] as the pilot study, but designed at a larger scale accounting for the performance and design information acquired during the pilot study, will be presented in the pilot test performance report, submitted to NC DENR after the completion of the pilot test period.

5.1.3 MNA Performance Monitoring

The objectives of the MNA corrective action performance monitoring program are listed as follows:

- Evaluate the conditioning of the aquifer for natural biological attenuation processes for COCs
- Evaluate the performance of the MNA remedy with respect to the degradation of COCs
- Evaluate the protection of surface water quality and potential sensitive receptors

The specific components of the MNA corrective action performance monitoring program are presented in the following table:

MNA Corrective Action Performance Monitoring Program

Monitoring Station Type	Purpose	Station Identification	Measurement Type	Frequency	Monitoring List
Upgradient Well(s)	Background Data for Remedy Evaluation	MW-5	Field	Single Pre-Injection event; Post-injection = Semi-Annually	pH, temperature, specific conductance, ORP, DO, turbidity
			Laboratory		MNA Performance Parameters**
Performance Well(s) for MNA with Anaerobic Biodegradation	Performance Monitoring	MW-8 and Old MW-2	Field	Single Pre-Injection event; Post-injection = Semi-Annually	pH, temperature, specific conductance, ORP, DO, turbidity
			Laboratory		COCs* plus cDCE. MNA Performance Parameters****
Performance Well(s) for MNA with Aerobic Biodegradation	Performance Monitoring	MW-6, AMW-1S, AMW-2S, and MW-7	Field	Single Pre-Injection event; Post-injection = Semi-Annually	pH, temperature, specific conductance, ORP, DO, turbidity
			Laboratory		COCs* and MNA Performance Parameters**
Surface Water Station(s)	Sensitive Receptor Protection	BR-2	Field	Single Pre-Injection event; Post-injection = Semi-Annually	pH, temperature, specific conductance, ORP, DO, turbidity
			Laboratory		COCs*

Notes:
* See Section 2.1
** List provided below
cDCE = cis-1,2-dichloroethene

Performance monitoring analytes for anaerobic reductive dechlorination are the following:

- Nitrate
- Total iron
- Sulfate
- Sulfide
- Alkalinity
- Chloride
- Total Organic Carbon
- Methane
- Ethene
- Ethane
- Biological Oxygen Demand
- Chemical Oxygen Demand
- Carbon Dioxide
- Hydrogen
- Volatile Fatty Acids

Field parameters for evaluating anaerobic reductive dechlorination are the following:

- DO
- ORP
- pH
- Temperature
- Conductivity
- Turbidity

Concentrations of the above MNA performance parameters should be obtained at each upgradient monitoring well, performance monitoring wells, and sentinel monitoring wells. An EPA-approved MNA screening model shall be performed during each semi-annual baseline event, and be submitted to the NC DENR with the Facility's semi-annual groundwater monitoring report.

After completing the baseline sampling events, the MNA performance parameters may be re-evaluated to determine if the sampling frequency may decrease for a specific MNA performance parameter, or if a specific MNA performance parameter may be removed from the CA sampling program based upon its technical relevance.

The locations of CA monitoring locations, including the established surface water monitoring points BR-2 and BR-3, are presented in Drawing 4. Selected CA monitoring wells are also compliance monitoring wells. The timing of the monitoring and analytical suite for compliance and CA monitoring programs will be coordinated to eliminate duplicate monitoring efforts as appropriate.

6.0 EVALUATION OF EFFECTIVENESS AND REPORT SUBMITTALS

Implementation of the CA performance monitoring plan, along with routine compliance monitoring activities for the Facility, will provide measurements from which the effectiveness of the CA may be evaluated.

6.1 Physical Changes in Aquifer Conditions

The Facility contains closed, inactive waste disposal units. No Facility development or modifications that would significantly change the topography or hydrogeology of the Facility are planned at this time. However, relatively minor changes such as the rerouting of stormwater, stormwater collection, capping, paving, and channelization activities will be evaluated as needed to assess the potential effect on hydrogeologic conditions (*e.g.*, recharge and groundwater flow direction) that may influence COC transport, fate, and remediation.

To monitor potential physical changes in aquifer conditions, potentiometric surface elevation measurements will be collected during compliance and CA monitoring events, providing an indicator of potential changes in Facility hydrogeology, specifically changes in water table elevation and potential effects on groundwater flow direction. Additionally, changes in the average flow rate of surface water features, if present, will be observed and noted during compliance and CA performance monitoring events. Physical changes in aquifer conditions that are observed and may potentially affect contaminant hydrogeology and hydrology at the Facility and have a resulting potential effect on the efficacy of the CA, if present, will be noted in routine compliance and CA monitoring reports, along with suggested CA modifications, as warranted, to maintain an effective remedy.

6.2 Chemical Changes in Aquifer Conditions

As presented in Section 5.1, the Facility contains closed, inactive waste disposal units. No Facility development or modifications that would significantly change the topography or hydrogeology of the Facility are planned at this time. Therefore, no significant changes in the geochemistry of the uppermost aquifer, as may be observed during large land development activities, are expected for the Facility at this time. Additionally, due to the age of the closed waste management units (waste was first accepted in 1960), it is expected that the geochemistry of the uppermost aquifer has returned to equilibrium conditions after historical landfill development activities. Therefore, the only expected changes in the geochemistry of the aquifer are related to corrective actions, both naturally occurring and active. It is expected that the CA will, by design, provide localized changes in aquifer geochemistry with the intent of enhancing the bioremediation of COCs through the conditioning of the aquifer, stimulate microbiological populations, and result in the biodegradation of COCs. COC biodegradation will reduce concentrations of COCs. The proposed monitoring plan for intended induced geochemical changes during EB is described in detail in Section 5.1.1.

6.3 Physical Changes in Plume Characteristics

The physical dimensions of the plume (i.e., the vertical and horizontal extent) will be monitored during the CA through the compliance and CA performance monitoring program. The plume extent, for compliance and CA monitoring purposes, is defined as the horizontal and vertical extent of COC groundwater concentrations exceeding NC 2L Standards for individual COCs. Because COC concentrations are a component of the chemical plume characteristics, additional details regarding the monitoring of COC concentrations and extent of above-NC 2L Standard concentrations (*i.e.,* physical plume characteristics) as a component of the CA performance monitoring plan are presented in Section 5.0.

6.4 Chemical Changes in the Plume

Changes in plume chemical characteristics are expected as a result of the CA program, and will be monitored during the EB pilot study and MNA. Decreases in hydrocarbons, parent-compound chlorinated COCs (*e.g.,* tetrachloroethene), the temporary production of biodegradation daughter products for chlorinated COCs (*e.g.,* cis-1,2-dichloroethene), and subsequent further biodegradation of daughter products to unregulated compounds are expected as a result of the corrective actions. As presented previously, the EB remedy is designed to enhance aquifer conditions that facilitate the biodegradation of the targeted COCs, and the MNA remedy monitors the naturally occurring degradation and physical attenuation of COCs. Therefore, chemical changes within the plume are expected.

6.5 Refining the Site Conceptual Model

The site conceptual model is developed based on complimentary and interrelated sets of data such as potentiometric surface measurements, site-specific soil and bedrock logging information, and COC concentrations to provide the best understanding of Facility contaminant hydrogeology at the current stage of investigation. Additional assessment, monitoring, and CA activities provide additional information with which the site conceptual model is routinely evaluated and refined, as necessary, to reflect the growing body of assessment and CA data.

Potential indicators for a need for additional assessment data and refinement of the site conceptual model include, but are not limited to, the following:

- Plume extent that does not match the interpreted groundwater flow direction
- Measured surface water or sensitive receptor impacts, if present, that are not located at the downgradient extent of a mapped COC plume
- Unexpected or insufficient changes in plume geochemistry, including COC concentrations, at CA performance monitoring wells

The site conceptual model is key to the assessment, CA, and compliance monitoring programs of the Facility, and will be routinely evaluated for strong correlation with groundwater and surface water monitoring data, with refinement of the site conceptual model as needed.

6.6 Corrective Action Reporting

A 3-year EB pilot study is proposed. During this time, the performance of the EB corrective action will be evaluated, and design parameters and insights for the tentative application of full-scale EB will be developed. As presented in Section 4.2.1, an initial injection of SAW is proposed, followed by CA performance monitoring per the schedule presented in Section 5.0. Additionally, MNA is proposed to address relatively shallow aquifer impacts by COCs. To provide a routine, written evaluation of the performance of the corrective actions, annual CA performance evaluation reports will be prepared and submitted to NC DENR during the 3-year EB pilot study and initial 5-year period of MNA. The proposed frequency for CA reporting will be re-evaluated at the end of the 3-year EB pilot test period and the initial 5-year period of MNA.

The initial report will be prepared and submitted to NC DENR within 60 days of receipt of field and laboratory measurements from the third quarterly post-injection performance monitoring event for the EB remedy, which will be performed approximately 12 months following the initial injection. The corrective action performance evaluation report for the pilot study will evaluate the effects of the EB remedy on both aquifer conditioning and COC biodegradation. The results of the CA performance monitoring will be evaluated with regard to potential adjustments to the EB remedy, including but not limited to additional SAW injections and/or a change in the volume, pressure, frequency, and/or additives for the SAW solution.

Corrective action performance evaluation reports will include, at a minimum, the following components:

- Detailed documentation regarding the implementation of the corrective actions
- Tables, including:
  - Historical groundwater and surface water COC concentrations
  - Field performance monitoring measurements
  - Performance monitoring laboratory analytical results
- Charts, as applicable, including:
  - Temporal COC concentrations during CA
  - Temporal field performance monitoring measurements, as useful
- Figures:
  - A recent plan view and cross-sectional potentiometric surface map
  - Plan view and cross-sectional contoured individual COC concentrations
- Laboratory analytical reports
- An evaluation of the effectiveness of the remedies
- Status relevant to contingency plan triggers (see Section 7.0)
- Proposed modifications to the CA design, as appropriate

- A proposed task list and schedule for activities anticipated over the next 12-month period

7.0 CONTINGENCY PLAN

The CA contingency plan provides documented thresholds or conditions under which the efficacy of the selected corrective action(s) is determined to be insufficient, and one or more response actions are required to correct the condition and increase the efficacy of the remedy.

7.1 Triggering Events

Conventionally, primary triggering event(s) for a CA contingency plan are related to one or more of the following conditions:

- Measured or inferred imminent risk to a sensitive receptor and/or
- CA performance that is determined to be insufficient to meet remedial objectives.

Specific triggering events for the implementation of the contingency plan at the Facility, as related to sensitive receptor protection, are listed as follows:

- Confirmed, quantified COC concentrations measured in surface water at concentrations above applicable surface water quality standards
  - For clarity, confirmed concentrations are defined as quantified COC concentrations reported during two or more successive CA monitoring events
  - The potential receiving surface water features for the mapped groundwater plumes are Mill Pond Creek and the on-site tributaries to Mill Pond Creek. North Carolina defines these surface water features as Water Supply IV. Therefore, the Water Supply surface water quality standards, as available for specific COCs, are the applicable surface water quality standards to which surface water monitoring data are compared.
- Confirmed, quantified COC concentrations measured in a sample collected from a drinking water well (if connected to a residence, utilized, and monitored) at concentrations above NC 2L Standards.
  - For clarity, confirmed concentrations are defined as quantified COC concentrations reported during one original and one optional verification monitoring event conducted within 30 calendar days. If no verification monitoring event is conducted, the original sample will be considered to be confirmed.

Specific triggering events for the implementation of the contingency plan at the Facility, as related to CA performance, are listed as follows:

- The absence of decreasing trends of COCs (parent compounds only) at EB performance monitoring wells located downgradient of the EB treatment zone within 3 years of EB implementation. It should be confirmed that performance monitoring wells are horizontally located and vertically screened within the targeted zone and within a 3-year contaminant transport distance for the targeted plume.
- The confirmed presence of COC groundwater concentrations above NC 2L Standards in the fractured bedrock aquifer in areas at which MNA is applied.

7.2 Contingency Actions

Triggering events are based on potential risk to sensitive receptors or unacceptable CA efficacy, as presented in Section 7.1. The contingency actions performed in response to confirmed, quantified COC concentrations measured in surface water at concentrations above applicable surface water quality standards and / or the presence of confirmed, quantified COC concentrations measured in samples collected from a drinking water well (if connected to a residence, utilized, and monitored) at concentrations in excess of NC 2L Standards are presented as follows:

- Within 30 days, perform a sensitive receptor survey with notification to affected landowners and/or the public, as appropriate, to minimize human exposure risk to impacted surface water.
- Within 60 days of the sensitive receptor survey, prepare a CAP addendum to evaluate modification of the primary remedy and/or the addition of a secondary remedy to mitigate unacceptable impacts to surface water and/or drinking water quality. The CAP addendum will include a proposed scheduled for implementation.
- If recommended in the CAP addendum, implement a pilot-scale CA program.
- Based on the CAP addendum and pilot scale study results, modify the primary remedy and/or implement a secondary remedy for the protection of surface water and/or drinking water quality. The location of the secondary remedy may be in a relatively downgradient portion of the plume to facilitate timely mitigation of surface water and/or drinking water quality impacts, as evaluated in the CAP addendum.

The contingency actions performed in response to a finding of unacceptable CA performance for the EB remedy are presented as follows:

- Within 30 days of determining unacceptable CA performance, confirm that performance monitoring wells are horizontally located and vertically screened within the targeted zone and within a 3-year contaminant transport distance for the targeted plume.
- Within 60 days of determining unacceptable CA performance, evaluate aquifer geochemical conditions and oxygen concentrations in the targeted aquifer. If substandard conditions exist for EB, evaluate the cost effectiveness of more aggressive aquifer conditioning that facilitates the biodegradation of the targeted COCs.
- If cost effective, within 60 days of the evaluation, implement a relatively aggressive EB method to enhance aquifer conditions for the biodegradation of COCs.
- If EB is determined to be cost inefficient and/or technically ineffective, within 60 days of this determination, a CAP addendum will be prepared and submitted to NC DENR to evaluate and propose an alternate remedial method. The CAP addendum will contain a schedule for implementation, potentially including one or more pilot-scale tests.

The contingency actions performed in response to a finding of unacceptable CA performance for the MNA remedy are presented as follows:

- Within 60 days of this determination, a CAP addendum will be prepared and submitted to NC DENR to evaluate and propose an alternate remedial method for the area of unacceptable MNA performance. The CAP addendum will contain a schedule for implementation, potentially including one or more pilot-scale tests.

7.3 Implementation Timeline

For clarity, the implementation timelines are presented with the individual contingency actions presented above in Section 7.2.

8.0 SCHEDULE AND MAINTENANCE

The following sections of this CAP present the schedules for implementation and maintenance of the remedy.

8.1 Implementation Timeline

The County will begin implementation of the CAP upon NC DENR approval. Therefore, the proposed timeline for implementation of the CAP is based on the date of approval, with specific steps presented as follows:

Corrective Action Implementation Schedule

Activity	Timeline for Completion	Notes
1.) Implement the MNA remedy	Following semi-annual monitoring event*	Monitoring begins with the next routinely scheduled semi-annual water quality monitoring event*
2.) UIC permit application submittal to NC DENR	60 days*	
3.) Injection well installation	45 days from UIC permit approval	Subject to consultant and subcontractor availability and weather
4.) Installation of EB pilot test infrastructure. SAW production.	90 days from Activity 3 completion	Subject to consultant and subcontractor availability and weather
5.) Begin EB pilot test injections and implement pilot test monitoring program (see Section 5.1 for details)	30 days from Activity 4 completion	Duration of gravity-feed injection is subject to aquifer hydraulic conductivity and induced pressure
6.) With positive EB pilot test results, implement full-scale remediation and CA monitoring and reporting program. With insufficient EB pilot test efficacy, provide CAP addendum.	90 days from the determination of pilot test efficacy	

Notes:
*After NC DENR approval of the CAP
UIC = Underground Injection Control

8.2 Operations and Maintenance

The following sections of this CAP present the operations and maintenance requirements of the CA program.

8.2.1 Operations

Upon the construction of injection well(s) and delivery systems for the injectate, general EB pilot test operations include the following:

- Production of SAW
- Measurements of the mixed solution geochemistry prior to subsurface application
- Gravity or pump-driven application to the subsurface, including volume and flow rate measurements
- Performance monitoring, including aquifer geochemical and COC concentration measurements as prescribed in the pilot test monitoring plan

Due to the nature of the source of COC impacts to groundwater (i.e., the landfill unit), periodic repeat applications will be necessary for continued treatment of the COC plume.

8.2.2 Long-Term Maintenance

Because the remedy is applied periodically, with monitoring of performance during and between injections, no specific long-term maintenance items other than the activities previously described in this CAP are required. As presented previously, a long-term corrective action monitoring program will be applied to evaluate the efficacy of the remedy.

8.2.3 Monitoring of Corrective Action Infrastructure

Relatively simple CA infrastructure is required for the EB remedy, consisting of injection wells, mixing tanks, a water supply, water filtration, oxygen delivery, delivery piping, and the potential periodic use of a delivery pump. Monitoring the condition and performance of these components will be performed during the periodic applications of SAW and during periodic corrective action performance monitoring events.

8.2.4 Contact Information

Contact information for the County, as related to the proposed CA activities presented in this CAP, is presented as follows:

Natalie J. Berry, P.E.
Assistant County Engineer
100 North King Street, Suite 210
Hendersonville, NC 28792
828-694-6521
nberry@hendersoncountync.org

8.2.5 Notifications of Failure / Deficiency

As presented in Section 6.6, a written evaluation of the efficacy of the EB pilot test will be presented to the NC DENR within 60 days of completing the proposed 3-year pilot test evaluation period. Also, a written evaluation of the efficacy of MNA will be presented to the NC DENR within 60 days of receiving laboratory analysis after the tenth semi-annual MNA monitoring event. Substandard pilot test or MNA performance will be noted in these evaluations, as applicable, and a CAP addendum will be produced for the NC DENR review and approval if a change in the selected remedy is proposed.

Additionally, as presented in the Contingency Plan (Section 7.0), triggering events require specific response actions that include documentation submitted to the NC DENR.

8.3 Safeguard Measures and Site Security

The proposed EB corrective action utilizes SAW with an alkaline additive. A Health, Safety, and Environment Plan (HASEP) for implementation of the CA will be composed and utilized during pilot-scale and full-scale corrective actions. The HASEP will address required personal protective equipment (PPE) for implementing the CA.

Access to the site is restricted by the use of perimeter chain link fencing. Storage and delivery systems for the CA will contain closed components in an effort to minimize the chance of spills or accidental exposure to the potassium bicarbonate solution by humans or ecological receptors.

8.4 Potential Modifications

The intent of the EB remedy is to condition the aquifer to facilitate the enhanced biodegradation of Facility COCs. A UIC permit granted by the NC DENR will be required to implement the pilot-scale and full-scale remedy, and will include detailed information regarding the nature of the material placed in the ground for EB. A full-scale MNA remedy is also applied to the relatively shallow aquifer.

Potential modifications to the methods and/or schedule during pilot-scale or full-scale remediation, as needed, will be submitted to the NC DENR UIC staff for written approval prior to implementation. Potential substantial changes in the delivery mechanism or location of the EB remedy or a modification of the type of remedy (e.g., a change to a CA other than EB or MNA) will be submitted to NC DENR for approval prior to implementation.

Because the implementability, appropriateness, and efficacy of the selected remedies are expected to be high, no specific potential modifications to the selected remedies are presented at this time. Furthermore, the implementation of an EB pilot test is intended to illuminate potentially required modifications, which will be reported to the NC DENR as needed and described in this CAP section (see previous paragraph).

9.0 FINANCIAL ASSURANCE REQUIREMENTS

The following sections present financial assurance requirements and preliminary remedy costs for the implementation of the EB and MNA remedies.

9.1 Requirements and Schedule

Section 5A. NCAC 13B .1628 established the financial assurance rules for owners and operators of MSW landfill units that received waste on or after October 9, 1993. Allowable mechanisms of financial assurance are: Trust Fund, Surety Bond Guaranteeing Payment or Performance, Letter of Credit,

Insurance, Corporate Financial Test, Local Government Financial Test, or Capital Reserve Fund. Owners or operators of a MSW landfill unit that are required to undertake a corrective action program per Rule .1637 are required to have a detailed written estimate, in current dollars, of the cost of hiring a third party to perform the corrective action. The corrective action cost estimate shall account for the total costs of corrective action activities described in the CAP for the entire corrective action period and therefore, must be reported after the NC DENR approves the CAP. This estimate must be adjusted annually for inflation, within 60 days of the anniversary date of the established financial instrument until the CA program is complete. The owner or operator also must increase the corrective action cost estimate and the amount of financial assurance provided if changes in the corrective action program increase the maximum cost of corrective action.

9.2 Pilot-Scale EB Remedy Cost

The following table presents estimated costs for the implementation of the proposed 3-year EB pilot test, including permitting and performance evaluation reporting.

Estimated Pilot-Scale Remedy Costs

Activity / Expense	No. of Units	Estimated Unit Cost	Estimated Cost
UIC Permit Application	1 Permit	$3,000	$3,000
Injection Well Installation and Development	1 Well	$18,000	$18,000
Electrical Service Installation	Lump-Sum Estimate	$7,500	$7,500
Water Service Installation, with Filtration	Lump-Sum Estimate	$7,500	$7,500
Tanks and Plumbing Infrastructure and Installation Labor	Lump-Sum Estimate	$4,500	$4,500
Injection Labor (Estimated 3 Events)	3	$4,000	$12,000
Performance Monitoring	9 Events over 3 Years	$2,500	$22,500
Quarterly Internal Data Evaluations	12 Quarters	$750	$9,000
Annual Reporting	3 Reports over 3 Years	$5,000	$15,000
		Estimated Total:	**$99,000**

9.3 Preliminary Estimate of Full-Scale EB Remedy Cost

The EB pilot test will be performed, in part, to collect performance information, refine the pilot study approach as needed, and collect design information for the tentative full-scale EB remedy. Therefore, full-scale remedy costs are preliminary at this time. It is noted that, at this time, the full-scale remedy technique may be adjusted, but the location of the remedy implementation (in the area of AMW-1D) is not expected to change or enlarge. A preliminary estimate of the implementation cost for the full-scale EB remedy is presented as follows:

NC DENR Permit Cost (one-time):		$1,500
Construction Activity Costs:		$0 (No additional)
Implementation Costs:		
	Annual Follow-Up Injection Costs (10-year period)	$40,000
	Contingency (10%)	$4,000
Monitoring and Reporting Costs:		
	GW Sampling Costs (10-year period)	$50,000
	Annual Corrective Action Status Evaluation Reports	$50,000
	Contingency (10%)	$10,000
Total Estimated Remedy Implementation Costs:		**$155,500**
(Assuming a 10-year remediation period)		

9.4 Estimate of Full-Scale MNA Remedy Cost

The estimated implementation cost for the full-scale MNA remedy is presented as follows:

Monitoring and Reporting Costs:		
	Annual GW Sampling Costs (25-year period)	$750,000
	Annual Reporting Costs (25-year period)	$220,000
	Annual EPA Screening Model/Report	$170,000
	Contingency (10%)	$97,000
Total Estimated Remedy Implementation Costs:		**$1,237,000**
(Assuming a 25-year remediation period)		

9.5 Cost Summary

The above-listed costs for individual corrective action components are summarized in the following table:

Estimated Corrective Action Cost

Corrective Action Component	**Estimated Cost**
Pilot-Scale EB Remedy	$99,000
Preliminary Estimate of Full-Scale EB Remedy	$155,500
Full-Scale MNA Remedy	$1,237,000
Total:	**$1,491,500**

10.0 COMPLETION OF CORRECTIVE ACTION

As presented in Section 3.1, the remedial objective is to reduce groundwater COC concentrations to below NC 2L Standards, facilitating the protection of potential downgradient sensitive receptors and

returning groundwater quality to unrestricted use. Pursuant to Rule 15A NCAC 13B .1637(e), corrective action is considered to be complete when:

- The owner or operator complies with the approved groundwater protection standards at all points within the plume of contamination that lie beyond the relevant point of compliance
- Compliance with the approved groundwater protection standards has been achieved by demonstrating that concentrations of Appendix II constituents have not exceeded these standards for a period of three consecutive years
- All actions required to complete the remedy have been satisfied

NC DENR will be notified of the intent of the County to terminate corrective actions at the Facility.

11.0 REFERENCES

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TABLES

TABLE 1

Summary of Well Construction Information
Henderson County Closed MSW Landfill, Permit No. 45-01

Well Identification	Construction Date	Coordinates		Ground Surface Elevation (ft AMSL)	TOC Elevation (ft AMSL)	Well Depth (ft)	Well Diameter (in)	Screened Interval (ft BGS)	Screened Interval (ft AMSL)	Geology of Screened Interval	Well Status
		Northing	Easting								
MW-5	10/21/1994	603077.23	958574.87	2386.79	2389.82	73.03	2	48.03 - 73.03	2341.79 - 2316.79	Saprolite	MSW Compliance Background Well
MW-6	10/20/1994	602152.02	956919.71	2202.39	2205.39	23.00	2	8.00 - 23.00	2197.39 - 2182.39	Saprolite	MSW Compliance Well
MW-7	10/17/1994	601949.28	957146.97	2207.77	2210.66	27.89	2	12.89 - 27.89	2197.77 - 2182.77	Saprolite	MSW Compliance Well
MW-8	10/18/1994	601765.86	957772.78	2232.97	2235.87	34.90	2	19.90 - 34.90	2215.97 - 2200.97	Saprolite	MSW Compliance Well
MW-9	10/18/1994	601664.26	958474.38	2256.95	2260.01	28.06	2	13.06 - 28.06	2246.95 - 2231.95	Saprolite	TVA Monitoring Well
AMW-1S	10/15/2001	602112.51	956718.62	2190.20	2193.09	31.72	2	15 - 30	2175.20 - 2160.20	Saprolite	MSW Assessment Well
AMW-1D	10/15/2001	602096.10	956704.70	2188.37	2190.77	62.65	2	50 - 60	2138.37 - 2128.37	PWR / Upper Fractured Rock	MSW Assessment Well
AMW-2S	4/2/2008	602098.59	956540.99	2168.25	2177.66	22.00	2	7.00 - 22.00	2161.25 - 2146.25	Saprolite	MSW Assessment Well
AMW-2D	4/2/2008	602116.88	956553.69	2170.93	2177.58	80.00	2	70.00 - 80.00	2100.93 - 2090.93	Fractured Rock	MSW Assessment Well
MW-10	NA	601790.07	959077.23	2402.63	2404.55	45	2	35 - 45	2367.63 - 2357.63	Saprolite / PWR	C&D Compliance Background Well
MW-11	NA	601946.06	958655.82	NA	2297.01	48.17	2	NA - 48.17	NA	NA	C&D Compliance Well
MW-12	NA	601683.36	958608.18	2297.97	2300.09	60	2	50 - 60	2244.97 - 2234.97	Saprolite / PWR	C&D Compliance Well
MW-13	NA	601511.47	958653.36	NA	2300.24	92	2	77 - 92	2221.16 - 2206.16	Bedrock	C&D Compliance Well
MW-1 (OLD)	NA	601264.43	957865.19	NA	2206.40	20.7 BTOC	2	NA	NA	Saprolite	Non-Compliance Well
MW-1	NA	601286.04	957837.08	NA	2206.80	70.2 BTOC	2	NA	NA	PWR	Non-Compliance Well
MW-2 (OLD)	NA	601446.34	957142.17	NA	2182.10	20.6 BTOC	2	NA	NA	Saprolite / PWR	Non-Compliance Well
MW-2	NA	601438.21	957125.15	NA	2182.80	67.6 BTOC	2	NA	NA	PWR / Upper Fractured Rock	Non-Compliance Well

Notes: ft = feet
in = inches
AMSL = above mean sea level
BGS = below ground surface
BTOC = below top of casing
Well construction information provided by Henderson County & CDM
NA = Data is not available or not applicable
PWR = Partially Weathered Rock
Northings and eastings were taken from Drawing 1 and should be considered approximate.

TABLE 2

Historical Groundwater Elevation Measurements
Henderson County Closed MSW Landfill, Permit No. 45-01

	MSW Landfill Compliance Monitoring Wells								MSW Landfill Assessment Monitoring Wells								MSW Non-Compliance Wells							
	MW-5		MW-6		MW-7		MW-8		AMW-1S		AMW-1D		AMW-2S		AMW-2D		MW-1 (Old)		MW-1		MW-2 (Old)		MW-2	
TOC Elevation (ft AMSL)	2389.82		2204.24		2210.66		2235.87		2193.09		2190.77		2177.66		2177.58		2206.42		2205.76		2182.77		2182.07	
Date	Elevation (ft AMSL)	DTW (ft)	Elevation (ft AMSL)	DTW (ft)	Elevation (ft AMSL)	DTW (ft)	Elevation (ft AMSL)	DTW (ft)	Elevation (ft AMSL)	DTW (ft)	Elevation (ft AMSL)	DTW (ft)	Elevation (ft AMSL)	DTW (ft)	Elevation (ft AMSL)	DTW (ft)	Elevation (ft AMSL)	DTW (ft)	Elevation (ft AMSL)	DTW (ft)	Elevation (ft AMSL)	DTW (ft)	Elevation (ft AMSL)	DTW (ft)
10/04/06	2334.31	55.51	2191.02	13.22	2191.61	19.05	2209.54	26.33	2179.83	13.26	2176.67	14.10	--	--	--	--	--	--	--	--	--	--	--	--
03/21/07	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
10/02/07	2331.55	58.27	2188.19	16.05	2189.95	20.71	2207.85	28.02	2176.63	16.46	2174.07	16.70	--	--	--	--	--	--	--	--	--	--	--	--
04/03/08	2326.17	63.65	2190.65	13.59	2190.63	20.03	2209.61	26.26	2180.41	12.68	2177.04	13.73	--	--	--	--	--	--	--	--	--	--	--	--
10/29/08	2322.17	67.65	2186.73	17.51	2188.87	21.79	2206.91	28.96	2175.87	17.22	2173.56	17.21	2168.25	9.41	2170.93	6.65	--	--	--	--	--	--	--	--
03/24/09	2319.25	70.57	2188.30	15.94	2189.28	21.38	2208.43	27.44	2178.99	14.10	2176.04	14.73	2169.29	8.37	2172.05	5.53	--	--	--	--	--	--	--	--
09/21-24/09	2326.37	63.45	2194.99	9.25	2190.56	20.10	2209.46	26.41	2180.79	12.30	2177.56	13.21	2170.17	7.49	2174.88	2.70	2200.47	5.95	2200.58	5.18	2174.92	7.85	2174.14	7.93
03/22-23/10	2342.62	47.20	<2185.22	>19.02	2193.88	16.78	2208.53	27.34	2182.71	10.38	2178.32	12.45	2170.28	7.38	2173.33	4.25	2200.91	5.51	2201.11	4.65	2175.02	7.75	2164.27	17.8
09/21-22/10	2338.34	51.48	2189.98	14.26	2191.49	19.17	2210.62	25.25	2177.74	15.35	2173.85	16.92	2171.40	6.26	2170.92	6.66	2199.72	6.7	2199.58	6.18	2163.77	19	2171.73	10.34
03/15-16/11	2333.36	56.46	2194.83	9.41	2191.45	19.21	2211.13	24.74	2181.44	11.65	2176.77	14.00	2169.72	7.94	2171.74	5.84	2200.61	5.81	2200.72	5.04	2174.81	7.96	2173.04	9.03
09/20-21/11	2331.91	57.91	2189.10	15.14	2190.61	20.05	2209.78	26.09	2177.42	15.67	2173.77	17.00	2168.40	9.26	2170.86	6.72	2199.74	6.68	2199.44	6.32	2173.97	8.8	2171.72	10.35
03/20-22/12	2330.51	59.31	2189.49	14.75	2191.15	19.51	2210.25	25.62	2178.99	14.10	2175.58	15.19	2169.04	8.62	2171.08	6.50	2200.24	6.18	2200.13	5.63	2174.36	8.41	2172.34	9.73
09/19-20/12	2328.67	61.15	2189.64	14.60	2190.07	20.59	2209.24	26.63	2177.89	15.20	2175.53	15.24	2169.33	8.33	2172.33	5.25	--	--	--	--	--	--	--	--
03/20/13	2330.45	59.37	2189.68	14.56	2190.54	20.12	2210.79	25.08	2179.83	13.26	2176.77	14.00	2169.69	7.97	2173.50	4.08	2200.44	5.98	2200.45	5.31	2174.59	8.18	2172.83	9.24
09/18/13	2342.55	47.27	2190.92	13.32	2191.97	18.69	2212.33	23.54	2179.38	13.71	2176.39	14.38	2168.98	8.68	2174.27	3.31	2198.04	8.38	2198.73	7.03	2174.20	8.57	2172.58	9.49
03/26/14	2339.89	49.93	2190.53	13.71	2191.50	19.16	2211.92	23.95	2180.00	13.09	2176.92	13.85	2169.51	8.15	2174.24	3.34	2200.43	5.99	2200.54	5.22	2174.54	8.23	2172.73	9.34
09/18/14	2336.72	53.10	2189.19	15.05	2190.44	20.22	2210.90	24.97	2178.02	15.07	2175.28	15.49	2168.67	8.99	2173.02	4.56	2200.33	6.09	2199.73	6.03	2174.10	8.67	2171.82	10.25
03/17/15	2332.78	57.04	2189.98	14.26	2190.34	20.32	2210.90	24.97	2179.80	13.29	2176.77	14.00	2169.61	8.05	2173.51	4.07	2200.96	5.46	2200.62	5.14	2174.61	8.16	2172.62	9.45
MEAN	*2332.21*	*57.61*	*2190.20*	*14.04*	*2190.84*	*19.82*	*2209.89*	*25.98*	*2179.16*	*13.93*	*2175.93*	*14.84*	*2169.45*	*8.21*	*2172.62*	*4.96*	*2200.17*	*6.25*	*2200.15*	*5.61*	*2173.54*	*9.23*	*2171.80*	*10.27*
MAXIMUM	*2342.62*	*70.57*	*2194.99*	*17.51*	*2193.88*	*21.79*	*2212.33*	*28.96*	*2182.71*	*17.22*	*2178.32*	*17.21*	*2171.40*	*9.41*	*2174.88*	*6.72*	*2200.96*	*8.38*	*2201.11*	*7.03*	*2175.02*	*19.00*	*2174.14*	*17.80*
MINIMUM	*2319.25*	*47.20*	*2186.73*	*9.25*	*2188.87*	*16.78*	*2206.91*	*23.54*	*2175.87*	*10.38*	*2173.56*	*12.45*	*2168.25*	*6.26*	*2170.86*	*2.70*	*2198.04*	*5.46*	*2198.73*	*4.65*	*2163.77*	*7.75*	*2164.27*	*7.93*

	C&D Landfill Compliance Monitoring Wells								TVA Landfill Monitoring Well	
	MW-10		MW-11		MW-12		MW-13		MW-9	
TOC Elevation (ft AMSL)	2404.55		2307.72		2300.09		2296.33		2259.59	
Date	Elevation (ft AMSL)	DTW (ft)	Elevation (ft AMSL)	DTW (ft)	Elevation (ft AMSL)	DTW (ft)	Elevation (ft AMSL)	DTW (ft)	Elevation (ft AMSL)	DTW (ft)
10/04/06	--	--	--	--	--	--	--	--	2244.64	15.37
03/21/07	2371.42	33.13	2266.46	30.55	2250.25	49.84	2252.90	47.34	--	--
10/02/07	--	--	--	--	--	--	--	--	2244.08	15.93
04/03/08	--	--	--	--	--	--	--	--	2244.03	15.98
10/29/08	2364.42	40.13	2258.56	38.45	2246.56	53.53	2245.91	54.33	2242.52	17.49
03/24/09	2363.04	41.51	2256.50	40.51	2244.43	55.66	2244.51	55.73	2242.21	17.80
09/21-24/09	2367.33	37.22	2258.97	38.04	2245.20	54.89	2245.56	54.68	2243.29	16.72
03/22-23/10	2376.31	28.24	2258.18	38.83	2250.60	49.49	2253.17	47.07	2236.04	23.97
09/21-22/10	2369.83	34.72	2267.16	29.85	2250.78	49.31	2253.84	46.4	2245.16	14.85
03/15-16/11	2367.12	37.43	2263.36	33.65	2248.90	51.19	2251.00	49.24	2245.10	14.91
09/20-21/11	2368.37	36.18	2260.95	46.77	2249.18	50.91	2250.57	45.76	2244.95	14.64
03/20-22/12	2367.47	37.08	2260.61	47.11	2248.24	51.85	2249.98	46.35	2244.54	15.05
09/19-20/12	2367.05	37.50	2260.07	47.65	2247.39	52.70	2249.08	47.25	--	--
03/20/13	2367.57	36.98	2259.14	48.58	2247.66	52.43	2249.30	47.03	2244.43	15.16
09/18/13	2375.12	29.43	2265.42	42.30	2252.34	47.75	2255.88	40.45	2249.63	9.96
03/26/14	2372.14	32.41	2266.61	41.11	2253.04	47.05	2255.79	40.54	2247.08	12.51
09/18/14	2369.87	34.68	2265.38	42.34	2251.59	48.50	2254.33	42.00	--	--
03/17/15	2367.64	36.91	2262.72	45.00	2249.97	50.12	2251.60	44.73	2245.25	14.34
MEAN	*2368.98*	*35.57*	*2262.01*	*40.72*	*2249.08*	*51.01*	*2250.89*	*47.26*	*2244.20*	*15.65*
MAXIMUM	*2376.31*	*41.51*	*2267.16*	*48.58*	*2253.04*	*55.66*	*2255.88*	*55.73*	*2249.63*	*23.97*
MINIMUM	*2363.04*	*28.24*	*2256.50*	*29.85*	*2244.43*	*47.05*	*2244.51*	*40.45*	*2236.04*	*9.96*

Notes: DTW = depth to water
ft = feet
ft AMSL = feet above mean sea level.
TOC = top of casing
-- = no data available
Historical data prior to March 2009 provided by Henderson County and CDM.
The stick-ups on monitoring wells MW-9, MW-11, and MW-13 were modified prior to the September 2011 event and the TOC elevations for those wells were resurveyed.

TABLE 3

Summary of Estimated Horizontal Flow Gradients and Velocities
Henderson County Closed MSW Landfill, Permit No. 45-01

March 2015								
Gradient Calculation Segment	**Flow Direction**	**Gradient Segment Length (feet)**	**Gradient Segment Elevations (feet)**	**Horizontal Gradient (i, feet)**	**Effective Porosity (n_e)**	**Hydraulic Conductivity (K, cm/sec)**	**Velocity (V_{gw}, feet/year)**	**Average Velocity (V_{gw}, feet/year)**
i_1	SW	1420	2320 / 2200	0.0845	0.15	1.12E-04	65.27	64.95
i_2	SSW	1673	2340 / 2200	0.0837	0.15	1.12E-04	64.64	

Notes: Horizontal velocities based on the modified Darcy equation $V_{gw} = Ki/n_e$.
Value for K is collected from the average of measured hydraulic conductivities from the July 2012 Nature and Extent Study.
Value for n_e is an estimated effective porosity used in previous CDM reports.

TABLE 4

Summary of Estimated Vertical Flow Gradients and Velocities
Henderson County Closed MSW Landfill, Permit No. 45-01

March 2015								
Well pair	**Screened Interval (feet)**	**Flow Direction**	**Gradient Segment Length (feet)**	**Gradient Segment Elevations (feet)**	**Vertical Gradient (i_v, feet)**	**Effective Porosity (n_e)**	**Hydraulic Conductivity (K_z, cm/sec)**	**Velocity (V_v, feet/year)**
MW-1	59.95-69.95	Downward	52.41	2200.62	0.0065	0.15	2.81E-05	1.26
Old MW-1	5.70-20.70			2200.96				
MW-2	58.00-68.00	Downward	50.80	2172.62	0.0392	0.15	2.81E-05	7.60
Old MW-2	5.40-20.40			2174.61				
AMW-1D	52.88-62.88	Downward	38.69	2176.77	0.0783	0.15	2.81E-05	15.20
AMW-1S	14.01-29.01			2179.80				
AMW-2D	72.54-82.54	Upward	60.06	2173.51	-0.0649	0.15	2.81E-05	-12.60
AMW-2S	10.06-25.06			2169.61				

Notes: Positive vertical gradient values indicate downward flow direction and negative vertical gradient values indicate upward flow direction.

The distance was calculated by taking the midpoint of the screened interval below the static water level.

The screen intervals for Old MW-1, MW-1, Old MW-2, MW-2, AMW-1S, and AMW-1D are assummed because well records could not be located.
Vertical velocities based on the modified Darcy equation $V_v = K_z i_v / n_e$.
Value for K_z is 25% of the average of measured hydraulic conductivities .
Value for n_e is an estimated effective porosity used in previous CDM reports.

TABLE 5

Summary of Detected Constituents in Surface Water Monitoring Points
Henderson County Closed MSW Landfill, Permit No. 45-01

Detected Monitoring Constituent/Parameter	Units	Date	MDL	SWS Reporting Limit	BR-1	BR-2	BR-3	SW-1	TSW-1	TSW-2	Blanks
Antimony	ug/L	12/05/94	30	6	ND	ND	ND	ND	--	--	--
No SW Standard	ug/L	02/14/95	30	6	ND	ND	--	ND	--	--	--
	ug/L	04/03/95	30	6	ND	ND	ND	ND	--	--	--
	ug/L	10/30/95	30	6	ND	ND	ND	ND	--	--	--
	ug/L	04/08/96	30	6	--	--	--	ND	--	--	--
	ug/L	10/24/96	30	6	ND	ND	ND	ND	--	--	--
	ug/L	04/15/97	30	6	ND	ND	ND	5	--	--	--
	ug/L	10/29/97	30	6	18	ND	ND	ND	--	--	--
	ug/L	05/14/98	--	6	ND	ND	ND	ND	--	--	--
	ug/L	11/11/98	--	6	ND	ND	ND	ND	--	--	--
	ug/L	06/04/99	--	6	ND	--	ND	ND	--	--	--
	ug/L	10/29/99	--	6	ND	--	ND	ND	--	--	--
	ug/L	04/20/00	--	6	ND	--	ND	ND	--	--	--
	ug/L	11/07/00	--	6	--	--	ND	ND	--	--	--
	ug/L	10/16/01	30	6	ND	--	ND	ND	--	--	--
	ug/L	04/24/02	30	6	ND	--	ND	ND	--	--	--
	ug/L	10/01/02	30	6	ND	--	ND	ND	--	--	--
	ug/L	04/09/03	30	6	ND	--	ND	ND	--	--	--
	ug/L	10/20/03	30	6	ND	ND	ND	ND	--	--	--
	ug/L	03/24/04	30	6	ND	ND	ND	ND	--	--	--
	ug/L	10/27/04	30	6	ND	ND	ND	ND	--	--	--
	ug/L	05/25/05	30	6	ND	ND	ND	ND	--	--	--
	ug/L	10/04/05	30	6	ND	ND	ND	ND	--	--	--
	ug/L	04/25/06	30	6	ND	ND	ND	ND	--	--	--
	ug/L	10/04/06	30	6	ND	ND	ND	ND	--	--	ND
	ug/L	03/21/07	6	6	ND	ND	ND	ND	--	--	ND
	ug/L	10/02/07	0.05	6	ND	ND	ND	ND	--	--	ND
	ug/L	04/03/08	0.68	6	ND	ND	ND	ND	--	--	ND
	ug/L	10/29/08	0.68	6	ND	--	ND	ND	--	--	ND
	ug/L	03/24/09	0.68	6	ND	ND	ND	ND	--	--	ND
	ug/L	09/22/09	0.0730	6	ND	ND	ND	ND	--	--	ND
	ug/L	03/22/10	0.220	6	ND	ND	0.521 J	ND	--	--	ND
	ug/L	09/23/10	0.220	6	ND	ND	ND	ND	--	--	ND
	ug/L	03/16/11	0.220	6	ND	ND	ND	ND	--	--	ND
	ug/L	09/21/11	0.220	6	ND	ND	ND	ND	--	--	ND
	ug/L	03/21/12	0.220	6	ND	ND	ND	ND	--	--	ND
	ug/L	09/20/12	0.220	6	ND	ND	ND	ND	--	--	ND
	ug/L	03/20/13	0.220	6	ND	ND	ND	ND	--	--	ND
	ug/L	09/18/13	0.220	6	ND	ND	ND	ND	--	--	ND
	ug/L	03/27/14	0.220	6	ND	ND	ND	ND	--	--	ND
	ug/L	09/18/14	0.220	6	ND	ND	ND	ND	--	--	ND
	ug/L	03/18/15	0.220	6	ND	0.681 J	0.230 J	ND	--	--	ND
Arsenic	ug/L	12/05/94	10	10	ND	ND	ND	ND	--	--	--
SW Standard = 50 ug/L	ug/L	02/14/95	10	10	ND	ND	--	ND	--	--	--
	ug/L	04/03/95	10	10	ND	ND	ND	ND	--	--	--
	ug/L	10/30/95	10	10	ND	12	ND	ND	--	--	--
	ug/L	04/08/96	10	10	--	--	--	ND	--	--	--
	ug/L	10/24/96	--	10	ND	ND	ND	ND	--	--	--
	ug/L	04/15/97	--	10	ND	ND	ND	ND	--	--	--
	ug/L	10/29/97	--	10	19	ND	ND	ND	--	--	--
	ug/L	05/14/98	--	10	ND	ND	ND	ND	--	--	--
	ug/L	11/11/98	--	10	ND	ND	ND	ND	--	--	--
	ug/L	06/04/99	--	10	ND	--	ND	ND	--	--	--
	ug/L	10/29/99	--	10	ND	--	ND	ND	--	--	--
	ug/L	04/20/00	--	10	ND	--	ND	ND	--	--	--
	ug/L	11/07/00	--	10	--	--	ND	ND	--	--	--
	ug/L	10/16/01	--	10	ND	--	ND	ND	--	--	--
	ug/L	04/24/02	--	10	ND	--	ND	ND	--	--	--
	ug/L	10/01/02	--	10	ND	--	ND	ND	--	--	--
	ug/L	04/09/03	10	10	ND	--	ND	ND	--	--	--
	ug/L	10/20/03	10	10	ND	ND	ND	ND	--	--	--
	ug/L	03/24/04	10	10	ND	ND	ND	ND	--	--	--
	ug/L	10/27/04	10	10	ND	ND	11.7	ND	--	--	--
	ug/L	05/25/05	10	10	ND	ND	ND	ND	--	--	--
	ug/L	10/04/05	10	10	ND	ND	ND	ND	--	--	--
	ug/L	04/25/06	10	10	ND	ND	ND	ND	--	--	--
	ug/L	10/04/06	10	10	ND	ND	ND	ND	--	--	ND
	ug/L	03/21/07	10	10	ND	ND	0.56 J	1.57 J	--	--	ND
	ug/L	10/02/07	10	10	ND	ND	ND	ND	--	--	ND
	ug/L	04/03/08	10	10	ND	ND	4.8 J	2.52 J	--	--	ND
	ug/L	10/29/08	10	10	2.5 J	--	4.65 J	4.14 J	--	--	ND
	ug/L	03/24/09	2.8	10	ND	ND	ND	ND	--	--	ND
	ug/L	09/22/09	2.80	10	4.69 B	2.94 B	3.11 B	ND	--	--	2.90 J
	ug/L	03/22/10	2.80	10	ND	ND	ND	ND	--	--	ND
	ug/L	09/23/10	2.80	10	ND	ND	ND	ND	--	--	ND
	ug/L	03/16/11	2.80	10	ND	ND	ND	ND	--	--	ND
	ug/L	09/21/11	2.80	10	ND	ND	4.96 J	ND	--	--	ND
	ug/L	03/21/12	2.80	10	ND	4.18 J	ND	ND	--	--	ND
	ug/L	09/20/12	2.80	10	ND	ND	ND	ND	--	--	3.27 J
	ug/L	03/20/13	2.80	10	ND	ND	ND	ND	--	--	ND
	ug/L	09/18/13	5.40	10	ND	ND	ND	ND	--	--	ND
	ug/L	03/27/14	5.40	10	ND	ND	ND	ND	--	--	ND
	ug/L	09/18/14	5.40	10	ND	ND	ND	ND	--	--	ND
	ug/L	03/18/15	5.40	10	ND	ND	ND	ND	--	--	ND

TABLE 5

Summary of Detected Constituents in Surface Water Monitoring Points
Henderson County Closed MSW Landfill, Permit No. 45-01

Detected Monitoring Constituent/Parameter	Units	Date	MDL	SWS Reporting Limit	BR-1		BR-2		BR-3		SW-1		TSW-1		TSW-2		Blanks	
Barium	ug/L	12/05/94	500	100	ND		ND		ND		ND		--		--		--	
No SW Standard	ug/L	02/14/95	500	100	131		ND		--		ND		--		--		--	
	ug/L	04/03/95	500	100	ND		ND		ND		ND		--		--		--	
	ug/L	10/30/95	500	100	ND		ND		ND		ND		--		--		--	
	ug/L	04/08/96	500	100	--		--		--		ND		--		--		--	
	ug/L	10/24/96	--	100	ND		ND		ND		ND		--		--		--	
	ug/L	04/15/97	--	100	130		220		ND		ND		--		--		--	
	ug/L	10/29/97	--	100	400		ND		ND		ND		--		--		--	
	ug/L	05/14/98	--	100	ND		ND		ND		ND		--		--		--	
	ug/L	11/11/98	--	100	ND		ND		ND		ND		--		--		--	
	ug/L	06/04/99	--	100	ND		--		ND		ND		--		--		--	
	ug/L	10/29/99	--	100	ND		--		ND		ND		--		--		--	
	ug/L	04/20/00	--	100	ND		--		ND		ND		--		--		--	
	ug/L	11/07/00	--	100	--		--		ND		ND		--		--		--	
	ug/L	10/16/01	--	100	ND		--		111		ND		--		--		--	
	ug/L	04/24/02	--	100	ND		--		ND		ND		--		--		--	
	ug/L	10/01/02	--	100	ND		--		ND		ND		--		--		--	
	ug/L	04/09/03	500	100	ND		--		ND		ND		--		--		--	
	ug/L	10/20/03	500	100	ND		ND		ND		ND		--		--		--	
	ug/L	03/24/04	500	100	ND		ND		ND		ND		--		--		--	
	ug/L	10/27/04	500	100	ND		ND		ND		ND		--		--		--	
	ug/L	05/25/05	500	100	ND		ND		ND		ND		--		--		--	
	ug/L	10/04/05	500	100	ND		4310		ND		ND		--		--		--	
	ug/L	04/25/06	500	100	ND		ND		ND		ND		--		--		--	
	ug/L	10/04/06	500	100	ND		ND		ND		ND		--		--		ND	
	ug/L	03/21/07	500	100	22.7	J	193		342		36.3	J	--		--		ND	
	ug/L	10/02/07	500	100	77.5	B	266		697		42.2	B	--		--		16.1	J
	ug/L	04/03/08	500	100	64.6	J	171		504		47.9	B	--		--		10.1	J
	ug/L	10/29/08	500	100	78.6	B	--		732	B	65.1	B	--		--		ND	
	ug/L	03/24/09	4.20	100	73.2	J	273		575		42.1	J	--		--		ND	
	ug/L	09/22/09	1.00	100	75.6	J	130		253		64.8	J	--		--		ND	
	ug/L	03/22/10	1.00	100	62.7	J	144		83.3	J	58.1	J	--		--		1.54	J
	ug/L	09/23/10	1.00	100	45.6	J	163		361		26.1	J	--		--		ND	
	ug/L	03/16/11	1.00	100	89.8	J	265		199		63.2	J	--		--		ND	
	ug/L	09/21/11	1.00	100	65.3	J	200		253		52.5	J	--		--		ND	
	ug/L	03/21/12	1.00	100	46.2	J	240		323		38.0	J	--		--		ND	
	ug/L	09/20/12	1.00	100	70.1	J	219		439		43.4	J	--		--		ND	
	ug/L	03/20/13	1.00	100	41.8	J	171		194		42.0	J	--		--		1.34	J
	ug/L	09/18/13	1.00	100	49.8	J	220		162		35.1	J	--		--		1.08	J
	ug/L	03/27/14	1.00	100	53.9	J	168		183		47.2	J	--		--		ND	
	ug/L	09/18/14	1.00	100	25.0	J	128		185		30.2	J	--		--		1.96	J
	ug/L	03/18/15	1.00	100	49.7	J	251		169		41.0	J	--		--		ND	
Beryllium	ug/L	12/05/94	2	1	ND		ND		ND		ND		--		--		--	
SW Standard = 6.5 ug/L	ug/L	02/14/95	2	1	ND		ND		--		ND		--		--		--	
	ug/L	04/03/95	2	1	ND		ND		ND		ND		--		--		--	
	ug/L	10/30/95	2	1	ND		ND		ND		ND		--		--		--	
	ug/L	04/08/96	2	1	--		--		--		ND		--		--		--	
	ug/L	10/24/96	--	1	ND		ND		ND		ND		--		--		--	
	ug/L	04/15/97	--	1	ND		ND		ND		ND		--		--		--	
	ug/L	10/29/97	--	1	**9**		ND		ND		ND		--		--		--	
	ug/L	05/14/98	--	1	ND		ND		ND		ND		--		--		--	
	ug/L	11/11/98	--	1	ND		ND		ND		ND		--		--		--	
	ug/L	06/04/99	--	1	ND		--		ND		ND		--		--		--	
	ug/L	10/29/99	--	1	ND		--		ND		ND		--		--		--	
	ug/L	04/20/00	--	1	ND		--		ND		ND		--		--		--	
	ug/L	11/07/00	--	1	--		--		ND		ND		--		--		--	
	ug/L	10/16/01	--	1	ND		--		ND		ND		--		--		--	
	ug/L	04/24/02	--	1	ND		--		ND		ND		--		--		--	
	ug/L	10/01/02	--	1	ND		--		ND		ND		--		--		--	
	ug/L	04/09/03	--	1	ND		--		ND		ND		--		--		--	
	ug/L	10/20/03	--	1	ND		ND		ND		ND		--		--		--	
	ug/L	03/24/04	--	1	ND		ND		ND		ND		--		--		--	
	ug/L	10/27/04	--	1	ND		ND		ND		ND		--		--		--	
	ug/L	05/25/05	2	1	ND		ND		ND		ND		--		--		--	
	ug/L	10/04/05	2	1	ND		4.07		ND		ND		--		--		--	
	ug/L	04/25/06	2	1	ND		ND		ND		ND		--		--		--	
	ug/L	10/04/06	2	1	ND		ND		ND		ND		--		--		ND	
	ug/L	03/21/07	2	1	ND		ND		ND		ND		--		--		ND	
	ug/L	10/02/07	2	1	1.97	B	2.28	B	3.9	B	1.97	B	--		--		6.01	
	ug/L	04/03/08	2	1	1.93		5.01		2.80		2.73		--		--		ND	
	ug/L	10/29/08	2	1	6.46	B	--		10.2	B	7.9	B	--		--		ND	
	ug/L	03/24/09	0.08	1	ND		ND		1.01		ND		--		--		ND	
	ug/L	09/22/09	0.100	1	ND		ND		0.656	J	ND		--		--		ND	
	ug/L	03/22/10	0.100	1	ND		ND		0.318	J	ND		--		--		ND	
	ug/L	09/23/10	0.100	1	ND		ND		0.820	J	ND		--		--		ND	
	ug/L	03/16/11	0.100	1	ND		ND		0.543	J	ND		--		--		ND	
	ug/L	09/21/11	0.100	1	ND		ND		0.362	J	ND		--		--		ND	
	ug/L	03/21/12	0.100	1	ND		ND		0.736	J	ND		--		--		ND	
	ug/L	09/20/12	0.100	1	ND		ND		0.694	J	ND		--		--		ND	
	ug/L	03/20/13	0.100	1	ND		ND		0.227	J	ND		--		--		ND	
	ug/L	09/18/13	0.100	1	ND		ND		ND		ND		--		--		ND	
	ug/L	03/27/14	0.100	1	ND		ND		0.222	J	ND		--		--		ND	
	ug/L	09/18/14	0.100	1	ND		ND		ND		ND		--		--		ND	
	ug/L	03/18/15	0.100	1	ND		ND		0.163	J	ND		--		--		ND	

TABLE 5

Summary of Detected Constituents in Surface Water Monitoring Points
Henderson County Closed MSW Landfill, Permit No. 45-01

Detected Monitoring Constituent/Parameter	Units	Date	MDL	SWS Reporting Limit	BR-1	BR-2	BR-3	SW-1	TSW-1	TSW-2	Blanks
Cadmium	ug/L	12/05/94	1	1	ND	ND	ND	ND	--	--	--
SW Standard = 2 ug/L (N)	ug/L	02/14/95	1	1	ND	ND	--	ND	--	--	--
	ug/L	04/03/95	1	1	ND	ND	ND	ND	--	--	--
	ug/L	10/30/95	1	1	ND	ND	ND	ND	--	--	--
	ug/L	04/08/96	1	1	--	--	--	ND	--	--	--
	ug/L	10/24/96	--	1	ND	ND	ND	ND	--	--	--
	ug/L	04/15/97	--	1	ND	ND	ND	ND	--	--	--
	ug/L	10/29/97	--	1	**11**	ND	ND	ND	--	--	--
	ug/L	05/14/98	--	1	ND	ND	ND	ND	--	--	--
	ug/L	11/11/98	--	1	ND	ND	ND	ND	--	--	--
	ug/L	06/04/99	--	1	ND	--	ND	ND	--	--	--
	ug/L	10/29/99	--	1	ND	--	ND	ND	--	--	--
	ug/L	04/20/00	--	1	1.5	--	1.7	1.2	--	--	--
	ug/L	11/07/00	--	1	--	--	ND	ND	--	--	--
	ug/L	10/16/01	--	1	ND	--	ND	ND	--	--	--
	ug/L	04/24/02	--	1	1.5	--	1.2	1.5	--	--	--
	ug/L	10/01/02	--	1	ND	--	ND	ND	--	--	--
	ug/L	04/09/03	--	1	ND	--	ND	ND	--	--	--
	ug/L	10/20/03	--	1	ND	ND	ND	ND	--	--	--
	ug/L	03/24/04	1	1	ND	ND	ND	ND	--	--	--
	ug/L	10/27/04	1	1	ND	ND	ND	ND	--	--	--
	ug/L	05/25/05	1	1	ND	ND	ND	ND	--	--	--
	ug/L	10/04/05	1	1	ND	**111**	ND	ND	--	--	--
	ug/L	04/25/06	1	1	ND	ND	1.15	1.03	--	--	--
	ug/L	10/04/06	1	1	ND	ND	ND	ND	--	--	ND
	ug/L	03/21/07	1	1	1.42 J	**2.71 J**	1.36 J	0.51 J	--	--	ND
	ug/L	10/02/07	1	1	ND	ND	1.31	ND	--	--	ND
	ug/L	04/03/08	1	1	ND	ND	1.1	ND	--	--	ND
	ug/L	10/29/08	1	1	ND	--	1.83	ND	--	--	ND
	ug/L	03/24/09	0.09	1	ND	ND	1.12	ND	--	--	ND
	ug/L	09/22/09	0.360	1	ND	ND	0.716 J	ND	--	--	ND
	ug/L	03/22/10	0.360	1	ND	ND	ND	ND	--	--	ND
	ug/L	09/23/10	0.360	1	ND	ND	0.487 J	ND	--	--	ND
	ug/L	03/16/11	0.360	1	ND	ND	ND	ND	--	--	ND
	ug/L	09/21/11	0.360	1	ND	ND	ND	ND	--	--	ND
	ug/L	03/21/12	0.360	1	ND	ND	0.468 J	ND	--	--	ND
	ug/L	09/20/12	0.360	1	ND	ND	0.691 J	ND	--	--	ND
	ug/L	03/20/13	0.360	1	ND	ND	ND	ND	--	--	ND
	ug/L	09/18/13	0.360	1	ND	ND	ND	ND	--	--	ND
	ug/L	03/27/14	0.360	1	ND	ND	ND	ND	--	--	ND
	ug/L	09/18/14	0.360	1	ND	ND	ND	ND	--	--	ND
	ug/L	03/18/15	0.360	1	ND	ND	ND	ND	--	--	ND
Chromium	ug/L	12/05/94	10	10	ND	ND	ND	ND	--	--	--
SW Standard = 50 ug/L	ug/L	02/14/95	10	10	ND	ND	--	ND	--	--	--
	ug/L	04/03/95	10	10	ND	ND	ND	ND	--	--	--
	ug/L	10/30/95	10	10	ND	ND	ND	ND	--	--	--
	ug/L	04/08/96	10	10	--	--	--	ND	--	--	--
	ug/L	10/24/96	10	10	ND	ND	ND	ND	--	--	--
	ug/L	04/15/97	--	10	ND	ND	ND	ND	--	--	--
	ug/L	10/29/97	--	10	10	1	ND	ND	--	--	--
	ug/L	05/14/98	--	10	ND	ND	ND	ND	--	--	--
	ug/L	11/11/98	--	10	ND	ND	ND	ND	--	--	--
	ug/L	06/04/99	--	10	ND	--	ND	ND	--	--	--
	ug/L	10/29/99	--	10	ND	--	ND	ND	--	--	--
	ug/L	04/20/00	--	10	ND	--	ND	ND	--	--	--
	ug/L	11/07/00	--	10	--	--	ND	ND	--	--	--
	ug/L	10/16/01	--	10	ND	--	ND	ND	--	--	--
	ug/L	04/24/02	--	10	ND	--	ND	ND	--	--	--
	ug/L	10/01/02	--	10	ND	--	ND	ND	--	--	--
	ug/L	04/09/03	--	10	ND	--	ND	ND	--	--	--
	ug/L	10/20/03	--	10	ND	ND	ND	ND	--	--	--
	ug/L	03/24/04	--	10	ND	ND	ND	ND	--	--	--
	ug/L	10/27/04	--	10	ND	ND	ND	ND	--	--	--
	ug/L	05/25/05	10	10	ND	ND	ND	ND	--	--	--
	ug/L	10/04/05	10	10	ND	ND	ND	ND	--	--	--
	ug/L	04/25/06	10	10	ND	ND	ND	ND	--	--	--
	ug/L	10/04/06	10	10	ND	ND	ND	ND	--	--	ND
	ug/L	03/21/07	10	10	1.44 J	3.02 J	2.38 J	2.86 J	--	--	ND
	ug/L	10/02/07	10	10	5.39 B	5.08 B	4.58 B	4.07 B	--	--	3.67 J
	ug/L	04/03/08	10	10	5.05 B	4.06 B	4.06 B	3.31 B	--	--	2.94 J
	ug/L	10/29/08	10	10	6.96 B	--	6.34 B	6.10 B	--	--	ND
	ug/L	03/24/09	0.7	10	2.0 J	3.4 J	1.9 J	1.4 J	--	--	ND
	ug/L	09/22/09	1.00	10	ND	1.83 J	ND	ND	--	--	ND
	ug/L	03/22/10	1.00	10	ND	ND	ND	ND	--	--	ND
	ug/L	09/23/10	1.00	10	ND	ND	ND	ND	--	--	ND
	ug/L	03/16/11	1.00	10	2.21 J	3.97 J	2.42 J	1.64 J	--	--	ND
	ug/L	09/21/11	1.00	10	1.29 J	3.44 J	1.78 J	1.06 J	--	--	ND
	ug/L	03/21/12	1.00	10	1.39 J	2.21 J	2.19 J	1.10 J	--	--	ND
	ug/L	09/20/12	1.00	10	ND	1.93 J	1.38 J	ND	--	--	ND
	ug/L	03/20/13	1.40	10	ND	ND	ND	ND	--	--	ND
	ug/L	09/18/13	1.40	10	ND	1.92 J	ND	ND	--	--	ND
	ug/L	03/27/14	1.40	10	ND	ND	ND	ND	--	--	ND
	ug/L	09/18/14	1.40	10	ND	ND	ND	ND	--	--	ND
	ug/L	03/18/15	1.40	10	ND	2.23 J	ND	ND	--	--	ND

TABLE 5

Summary of Detected Constituents in Surface Water Monitoring Points
Henderson County Closed MSW Landfill, Permit No. 45-01

Detected Monitoring Constituent/Parameter	Units	Date	MDL	SWS Reporting Limit	BR-1		BR-2		BR-3		SW-1		TSW-1	TSW-2	Blanks	
Cobalt	ug/L	12/05/94	10	10	ND		ND		ND		ND		--	--	--	
No SW Standard	ug/L	02/14/95	10	10	11		ND		--		ND		--	--	--	
	ug/L	04/03/95	10	10	ND		ND		ND		ND		--	--	--	
	ug/L	10/30/95	10	10	ND		ND		ND		ND		--	--	--	
	ug/L	04/08/96	10	10	--		--		--		ND		--	--	--	
	ug/L	10/24/96	--	10	ND		ND		ND		ND		--	--	--	
	ug/L	04/15/97	--	10	4		1		ND		ND		--	--	--	
	ug/L	10/29/97	--	10	--		--		--		--		--	--	--	
	ug/L	05/14/98	--	10	ND		ND		ND		ND		--	--	--	
	ug/L	11/11/98	--	10	ND		ND		ND		ND		--	--	--	
	ug/L	06/04/99	--	10	ND		--		ND		ND		--	--	--	
	ug/L	10/29/99	--	10	ND		--		ND		ND		--	--	--	
	ug/L	04/20/00	--	10	ND		--		ND		ND		--	--	--	
	ug/L	11/07/00	--	10	--		--		ND		ND		--	--	--	
	ug/L	10/16/01	--	10	ND		--		ND		ND		--	--	--	
	ug/L	04/24/02	--	10	ND		--		10.7		ND		--	--	--	
	ug/L	10/01/02	--	10	ND		--		10.7		ND		--	--	--	
	ug/L	04/09/03	10	10	ND		--		ND		ND		--	--	--	
	ug/L	10/20/03	10	10	ND		ND		ND		ND		--	--	--	
	ug/L	03/24/04	10	10	ND		ND		ND		ND		--	--	--	
	ug/L	10/27/04	10	10	ND		ND		ND		ND		--	--	--	
	ug/L	05/25/05	10	10	ND		ND		ND		ND		--	--	--	
	ug/L	10/04/05	10	10	ND		ND		ND		ND		--	--	--	
	ug/L	04/25/06	10	10	ND		ND		ND		ND		--	--	--	
	ug/L	10/04/06	10	10	ND		ND		ND		ND		--	--	ND	
	ug/L	03/21/07	10	10	2.52	J	3.56	J	4.76	J	ND		--	--	ND	
	ug/L	10/02/07	10	10	ND		ND		ND		ND		--	--	ND	
	ug/L	04/03/08	10	10	ND		5.32	J	3.66	J	ND		--	--	ND	
	ug/L	10/29/08	10	10	7.54	J	--		7.90	J	ND		--	--	ND	
	ug/L	03/24/09	0.6	10	3.9	J	4.8	J	4.8	J	1.0	J	--	--	ND	
	ug/L	09/22/09	1.10	10	1.21	J	5.16	J	1.90	J	ND		--	--	ND	
	ug/L	03/22/10	1.10	10	3.17	J	6.20	J	1.39	J	2.71	J	--	--	ND	
	ug/L	09/23/10	1.10	10	2.38	J	5.61	J	3.38	J	ND		--	--	ND	
	ug/L	03/16/11	1.10	10	1.94	J	5.87	J	1.82	J	1.85	J	--	--	ND	
	ug/L	09/21/11	1.10	10	3.22	J	9.89	J	3.13	J	2.29	J	--	--	ND	
	ug/L	03/21/12	1.10	10	2.44	J	8.93	J	2.84	J	1.71	J	--	--	ND	
	ug/L	09/20/12	1.10	10	2.52	J	8.43	J	3.31	J	1.12	J	--	--	ND	
	ug/L	03/20/13	1.10	10	1.77	J	3.49	J	2.03	J	ND		--	--	ND	
	ug/L	09/18/13	1.10	10	3.01	J	3.55	J	1.19	J	1.19	J	--	--	ND	
	ug/L	03/27/14	1.10	10	3.47	J	4.19	J	2.75	J	2.45	J	--	--	ND	
	ug/L	09/18/14	1.10	10	ND		1.96	J	1.58	J	ND		--	--	ND	
	ug/L	03/18/15	1.10	10	2.58	J	5.51	J	2.75	J	1.62	J	--	--	ND	
Copper	ug/L	12/05/94	200	10	ND		ND		ND		ND		--	--	--	
SW Standard = 7 ug/L[#]	ug/L	02/14/95	200	10	ND		ND		--		ND		--	--	--	
	ug/L	04/03/95	200	10	ND		ND		ND		ND		--	--	--	
	ug/L	10/30/95	200	10	ND		ND		ND		ND		--	--	--	
	ug/L	04/08/96	200	10	--		--		--		ND		--	--	--	
	ug/L	10/24/96	200	10	ND		ND		ND		ND		--	--	--	
	ug/L	04/15/97	200	10	ND		ND		ND		ND		--	--	--	
	ug/L	10/29/97	200	10	ND		--		ND		ND		--	--	--	
	ug/L	05/14/98	200	10	ND		ND		ND		ND		--	--	--	
	ug/L	11/11/98	200	10	ND		ND		ND		ND		--	--	--	
	ug/L	06/04/99	--	10	ND		--		ND		ND		--	--	--	
	ug/L	10/29/99	--	10	ND		--		ND		ND		--	--	--	
	ug/L	04/20/00	--	10	ND		--		ND		ND		--	--	--	
	ug/L	11/07/00	--	10	--		--		ND		ND		--	--	--	
	ug/L	10/16/01	--	10	ND		--		ND		ND		--	--	--	
	ug/L	04/24/02	--	10	ND		--		ND		ND		--	--	--	
	ug/L	10/01/02	--	10	ND		--		ND		ND		--	--	--	
	ug/L	04/09/03	--	10	ND		--		ND		ND		--	--	--	
	ug/L	10/20/03	--	10	ND		ND		ND		ND		--	--	--	
	ug/L	03/24/04	--	10	ND		ND		ND		ND		--	--	--	
	ug/L	10/27/04	--	10	ND		ND		ND		ND		--	--	--	
	ug/L	05/25/05	200	10	ND		ND		ND		ND		--	--	--	
	ug/L	10/04/05	200	10	ND		ND		ND		ND		--	--	--	
	ug/L	04/25/06	200	10	ND		ND		ND		ND		--	--	--	
	ug/L	10/04/06	200	10	ND		ND		ND		ND		--	--	ND	
	ug/L	03/21/07	200	10	4.32	J	4.93	J	3.97	J	4.23	J	--	--	ND	
	ug/L	10/02/07	200	10	5.94	B	6.24	B	5.64	B	6.01	B	--	--	6.41	J
	ug/L	04/03/08	200	10	4.96	B	4.27	B	4.53	B	5.38	B	--	--	4.46	J
	ug/L	10/29/08	200	10	6.95	B	--		5.85	B	10.3	B	--	--	ND	
	ug/L	03/24/09	0.81	10	ND		ND		ND		ND		--	--	ND	
	ug/L	09/22/09	1.60	10	ND		ND		ND		ND		--	--	ND	
	ug/L	03/22/10	1.60	10	ND		ND		ND		ND		--	--	ND	
	ug/L	09/23/10	1.60	10	ND		ND		2.15	J	ND		--	--	ND	
	ug/L	03/16/11	1.60	10	**9.17**	**J**	ND		4.73	J	2.13	J	--	--	ND	
	ug/L	09/21/11	1.60	10	ND		3.90	J	2.35	J	ND		--	--	ND	
	ug/L	03/21/12	1.60	10	ND		ND		ND		ND		--	--	ND	
	ug/L	09/20/12	1.60	10	ND		ND		ND		ND		--	--	ND	
	ug/L	03/20/13	1.60	10	ND		ND		1.60	J	ND		--	--	ND	
	ug/L	09/18/13	1.60	10	5.72	J	ND		ND		ND		--	--	ND	
	ug/L	03/27/14	1.60	10	ND		ND		ND		ND		--	--	ND	
	ug/L	09/18/14	1.60	10	ND		ND		ND		ND		--	--	ND	
	ug/L	03/18/15	1.60	10	ND		ND		ND		ND		--	--	1.74	J

TABLE 5

Summary of Detected Constituents in Surface Water Monitoring Points
Henderson County Closed MSW Landfill, Permit No. 45-01

Detected Monitoring Constituent/Parameter	Units	Date	MDL	SWS Reporting Limit	BR-1		BR-2		BR-3		SW-1		TSW-1		TSW-2		Blanks	
Lead	ug/L	12/05/94	10	10	ND		**38**		8		7		--		--		--	
SW Standard = 25 ug/L[#]	ug/L	02/14/95	10	10	ND		5		--		7		--		--		--	
	ug/L	04/03/95	10	10	ND		ND		ND		ND		--		--		--	
	ug/L	10/30/95	10	10	ND		ND		ND		ND		--		--		--	
	ug/L	04/08/96	10	10	--		--		--		ND		--		--		--	
	ug/L	10/24/96	10	10	ND		**110**		ND		ND		--		--		--	
	ug/L	04/15/97	10	10	ND		ND		ND		ND		--		--		--	
	ug/L	10/29/97	--	10	**28**		ND		ND		ND		--		--		--	
	ug/L	05/14/98	--	10	ND		ND		ND		ND		--		--		--	
	ug/L	11/11/98	--	10	ND		ND		ND		ND		--		--		--	
	ug/L	06/04/99	--	10	ND		--		ND		ND		--		--		--	
	ug/L	10/29/99	--	10	ND		--		ND		ND		--		--		--	
	ug/L	04/20/00	--	10	ND		--		ND		ND		--		--		--	
	ug/L	11/07/00	--	10	--		--		ND		ND		--		--		--	
	ug/L	10/16/01	--	10	ND		--		ND		ND		--		--		--	
	ug/L	04/24/02	--	10	ND		--		ND		ND		--		--		--	
	ug/L	10/01/02	--	10	ND		--		ND		ND		--		--		--	
	ug/L	04/09/03	--	10	18.5		--		ND		ND		--		--		--	
	ug/L	10/20/03	--	10	ND		ND		ND		ND		--		--		--	
	ug/L	03/24/04	--	10	ND		ND		ND		ND		--		--		--	
	ug/L	10/27/04	--	10	ND		ND		11.6		ND		--		--		--	
	ug/L	05/25/05	--	10	ND		ND		ND		ND		--		--		--	
	ug/L	10/04/05	10	10	ND		**242**		ND		ND		--		--		--	
	ug/L	04/25/06	10	10	ND		ND		ND		ND		--		--		--	
	ug/L	10/04/06	10	10	ND		ND		ND		ND		--		--		ND	
	ug/L	03/21/07	10	10	ND		1.56	J	ND		ND		--		--		ND	
	ug/L	10/02/07	10	10	0.49	B	0.65	B	0.46	B	0.49	B	--		--		0.49	J
	ug/L	04/03/08	10	10	5.13	J	7.36	J	ND		ND		--		--		ND	
	ug/L	10/29/08	10	10	6.36	B	--		7.18	B	10.1	B	--		--		ND	
	ug/L	03/24/09	1.6	10	2.8	J	3.9	J	3.8	J	2.1	J	--		--		ND	
	ug/L	09/22/09	1.90	10	ND		2.33	J	ND		ND		--		--		ND	
	ug/L	03/22/10	1.90	10	ND		ND		ND		ND		--		--		ND	
	ug/L	09/23/10	1.90	10	ND		ND		ND		ND		--		--		ND	
	ug/L	03/16/11	1.90	10	4.31	J	2.33	J	3.29	J	ND		--		--		ND	
	ug/L	09/21/11	1.90	10	ND		8.03	J	2.33	J	ND		--		--		ND	
	ug/L	03/21/12	1.90	10	ND		ND		ND		ND		--		--		ND	
	ug/L	09/20/12	1.90	10	3.64	B	ND		2.28	B	3.19	B	--		--		2.70	J
	ug/L	03/20/13	1.90	10	ND		ND		ND		ND		--		--		ND	
	ug/L	09/18/13	2.10	10	ND		ND		ND		ND		--		--		ND	
	ug/L	03/27/14	2.10	10	ND		ND		ND		ND		--		--		ND	
	ug/L	09/18/14	2.10	10	ND		ND		ND		ND		--		--		ND	
	ug/L	03/18/15	2.10	10	ND		ND		ND		ND		--		--		ND	
Nickel	ug/L	12/05/94	50	50	ND		ND		ND		ND		--		--		--	
SW Standard = 88 ug/L (N)	ug/L	02/14/95	50	50	ND		ND		--		ND		--		--		--	
	ug/L	04/03/95	50	50	ND		ND		ND		ND		--		--		--	
	ug/L	10/30/95	50	50	ND		ND		ND		ND		--		--		--	
	ug/L	04/08/96	--	50	--		--		--		ND		--		--		--	
	ug/L	10/24/96	--	50	ND		ND		ND		ND		--		--		--	
	ug/L	04/15/97	--	50	ND		ND		ND		ND		--		--		--	
	ug/L	10/29/97	--	50	ND		--		ND		ND		--		--		--	
	ug/L	05/14/98	--	50	ND		ND		ND		ND		--		--		--	
	ug/L	11/11/98	--	50	ND		ND		ND		ND		--		--		--	
	ug/L	06/04/99	--	50	ND		--		ND		ND		--		--		--	
	ug/L	10/29/99	--	50	ND		--		ND		ND		--		--		--	
	ug/L	04/20/00	--	50	ND		--		ND		ND		--		--		--	
	ug/L	11/07/00	--	50	--		--		ND		ND		--		--		--	
	ug/L	10/16/01	--	50	ND		--		ND		ND		--		--		--	
	ug/L	04/24/02	--	50	ND		--		ND		ND		--		--		--	
	ug/L	10/01/02	--	50	ND		--		ND		ND		--		--		--	
	ug/L	04/09/03	--	50	ND		--		ND		ND		--		--		--	
	ug/L	10/20/03	50	50	ND		ND		ND		ND		--		--		--	
	ug/L	03/24/04	50	50	ND		ND		ND		ND		--		--		--	
	ug/L	10/27/04	50	50	ND		ND		ND		ND		--		--		--	
	ug/L	05/25/05	50	50	ND		ND		ND		ND		--		--		--	
	ug/L	10/04/05	50	50	ND		ND		ND		ND		--		--		--	
	ug/L	04/25/06	50	50	ND		ND		ND		ND		--		--		--	
	ug/L	10/04/06	50	50	ND		ND		ND		ND		--		--		ND	
	ug/L	03/21/07	50	50	0.61	J	ND		5.04	J	ND		--		--		ND	
	ug/L	10/02/07	50	50	2.25	B	3.79	B	7.68	J	1.67	B	--		--		0.8	J
	ug/L	04/03/08	50	50	ND		ND		ND		ND		--		--		ND	
	ug/L	10/29/08	50	50	ND		--		8.09	J	ND		--		--		ND	
	ug/L	03/24/09	0.6	50	2.0	J	2.5	J	4.2	J	1.0	J	--		--		ND	
	ug/L	09/22/09	1.80	50	2.17	J	3.90	J	2.65	J	ND		--		--		ND	
	ug/L	03/22/10	1.80	50	ND		3.21	J	ND		ND		--		--		ND	
	ug/L	09/23/10	1.80	50	ND		2.24	J	ND		ND		--		--		ND	
	ug/L	03/16/11	1.80	50	2.92	J	ND		2.04	J	ND		--		--		ND	
	ug/L	09/21/11	1.80	50	ND		2.97	J	2.71	J	ND		--		--		ND	
	ug/L	03/21/12	1.80	50	ND		2.31	J	2.51	J	ND		--		--		ND	
	ug/L	09/20/12	1.80	50	ND		1.82	J	2.80	J	ND		--		--		ND	
	ug/L	03/20/13	1.80	50	ND		ND		2.04	J	ND		--		--		ND	
	ug/L	09/18/13	1.80	50	ND		2.51	J	ND		ND		--		--		ND	
	ug/L	03/27/14	1.80	50	ND		2.16	J	2.23	J	ND		--		--		ND	
	ug/L	09/18/14	1.80	50	ND		ND		ND		ND		--		--		ND	
	ug/L	03/18/15	1.80	50	ND		2.24	J	1.99	J	ND		--		--		ND	

TABLE 5

Summary of Detected Constituents in Surface Water Monitoring Points
Henderson County Closed MSW Landfill, Permit No. 45-01

Detected Monitoring Constituent/Parameter	Units	Date	MDL	SWS Reporting Limit	BR-1		BR-2		BR-3		SW-1		TSW-1		TSW-2		Blanks	
Selenium	ug/L	12/05/94	20	10	ND		ND		ND		ND		--		--		--	
SW Standard = 5 ug/L	ug/L	02/14/95	20	10	ND		ND		--		ND		--		--		--	
	ug/L	04/03/95	20	10	ND		ND		ND		ND		--		--		--	
	ug/L	10/30/95	20	10	ND		ND		ND		ND		--		--		--	
	ug/L	04/08/96	--	10	--		--		--		ND		--		--		--	
	ug/L	10/24/96	--	10	ND		ND		ND		ND		--		--		--	
	ug/L	04/15/97	--	10	**18**		ND		ND		**8**		--		--		--	
	ug/L	10/29/97	--	10	**26**		--		ND		ND		--		--		--	
	ug/L	05/14/98	--	10	ND		ND		ND		ND		--		--		--	
	ug/L	11/11/98	--	10	ND		ND		ND		ND		--		--		--	
	ug/L	06/04/99	--	10	ND		--		ND		ND		--		--		--	
	ug/L	10/29/99	--	10	ND		--		ND		ND		--		--		--	
	ug/L	04/20/00	--	10	ND		--		ND		ND		--		--		--	
	ug/L	11/07/00	--	10	--		--		ND		ND		--		--		--	
	ug/L	10/16/01	--	10	ND		--		**10**		ND		--		--		--	
	ug/L	04/24/02	--	10	ND		--		ND		ND		--		--		--	
	ug/L	10/01/02	--	10	ND		--		ND		ND		--		--		--	
	ug/L	04/09/03	--	10	ND		--		ND		ND		--		--		--	
	ug/L	10/20/03	--	10	ND		ND		ND		ND		--		--		--	
	ug/L	03/24/04	--	10	ND		ND		ND		ND		--		--		--	
	ug/L	10/27/04	20	10	ND		ND		ND		ND		--		--		--	
	ug/L	05/25/05	20	10	ND		ND		ND		ND		--		--		--	
	ug/L	10/04/05	20	10	ND		ND		ND		ND		--		--		--	
	ug/L	04/25/06	20	10	ND		ND		ND		ND		--		--		--	
	ug/L	10/04/06	20	10	ND		ND		ND		ND		--		--		ND	
	ug/L	03/21/07	20	10	ND		ND		ND		ND		--		--		ND	
	ug/L	10/02/07	20	10	**10.4**		**8.22**	**J**	ND		**9.83**	**J**	--		--		ND	
	ug/L	04/03/08	20	10	ND		**7.73**	**J**	**7.75**	**J**	**8.67**	**J**	--		--		ND	
	ug/L	10/29/08	20	10	ND		--		ND		ND		--		--		ND	
	ug/L	03/24/09	3.4	10	ND		ND		ND		ND		--		--		ND	
	ug/L	09/22/09	2.70	10	3.17	B	ND		ND		6.01	B	--		--		6.41	J
	ug/L	03/22/10	0.830	10	ND		2.75	J	ND		ND		--		--		ND	
	ug/L	09/23/10	5.20	10	ND		ND		ND		ND		--		--		ND	
	ug/L	03/16/11	2.70	10	ND		ND		ND		3.09	B	--		--		3.32	J
	ug/L	09/21/11	2.70	10	ND		ND		ND		ND		--		--		ND	
	ug/L	03/21/12	2.70	10	ND		ND		ND		ND		--		--		ND	
	ug/L	09/20/12	2.70	10	ND		ND		ND		ND		--		--		ND	
	ug/L	03/20/13	4.50	10	ND		ND		ND		ND		--		--		ND	
	ug/L	09/18/13	5.00	10	ND		ND		ND		ND		--		--		ND	
	ug/L	03/27/14	5.00	10	ND		ND		ND		ND		--		--		ND	
	ug/L	09/18/14	5.00	10	ND		ND		ND		ND		--		--		ND	
	ug/L	03/18/15	5.00	10	ND		ND		ND		ND		--		--		ND	
Silver	ug/L	12/05/94	1.9	10	ND		ND		ND		ND		--		--		--	
SW Standard = 0.06 ug/L (AL)	ug/L	02/14/95	--	10	ND		ND		--		ND		--		--		--	
	ug/L	04/03/95	--	10	ND		ND		ND		ND		--		--		--	
	ug/L	10/30/95	--	10	ND		ND		ND		ND		--		--		--	
	ug/L	04/08/96	--	10	--		--		--		ND		--		--		--	
	ug/L	10/24/96	--	10	ND		ND		ND		ND		--		--		--	
	ug/L	04/15/97	--	10	ND		**0.2**		ND		0.3		--		--		--	
	ug/L	10/29/97	--	10	**2**		--		ND		ND		--		--		--	
	ug/L	05/14/98	--	10	ND		ND		ND		ND		--		--		--	
	ug/L	11/11/98	--	10	ND		ND		ND		ND		--		--		--	
	ug/L	06/04/99	--	10	ND		--		ND		ND		--		--		--	
	ug/L	10/29/99	--	10	ND		--		ND		ND		--		--		--	
	ug/L	04/20/00	--	10	ND		--		ND		ND		--		--		--	
	ug/L	11/07/00	--	10	--		--		ND		ND		--		--		--	
	ug/L	10/16/01	--	10	ND		--		ND		ND		--		--		--	
	ug/L	04/24/02	--	10	ND		--		ND		ND		--		--		--	
	ug/L	10/01/02	--	10	ND		--		ND		ND		--		--		--	
	ug/L	04/09/03	--	10	ND		--		ND		ND		--		--		--	
	ug/L	10/20/03	--	10	ND		ND		ND		ND		--		--		--	
	ug/L	03/24/04	--	10	ND		ND		ND		ND		--		--		--	
	ug/L	10/27/04	--	10	ND		ND		ND		ND		--		--		--	
	ug/L	05/25/05	--	10	ND		ND		ND		ND		--		--		--	
	ug/L	10/04/05	--	10	ND		ND		ND		ND		--		--		--	
	ug/L	04/25/06	--	10	ND		ND		ND		ND		--		--		--	
	ug/L	10/04/06	--	10	ND		ND		ND		ND		--		--		ND	
	ug/L	03/21/07	--	10	**1.32**	**J**	**1.01**	**J**	**0.97**	**J**	**0.99**	**J**	--		--		ND	
	ug/L	10/02/07	--	10	ND		**1.55**	**J**	**1.25**	**J**	ND		--		--		ND	
	ug/L	04/03/08	--	10	**1.03**	**J**	**1.41**	**J**	**1.64**	**J**	**1.25**	**J**	--		--		ND	
	ug/L	10/29/08	--	10	6.03	B	--		5.77	B	5.32	B	--		--		ND	
	ug/L	03/24/09	1.0	10	**1.3**	**J**	**2.5**	**J**	**2.4**	**J**	**1.3**	**J**	--		--		ND	
	ug/L	09/22/09	1.90	10	ND		**2.23**	**J**	ND		ND		--		--		ND	
	ug/L	03/22/10	1.90	10	ND		**2.89**	**J**	ND		ND		--		--		ND	
	ug/L	09/23/10	1.90	10	ND		ND		ND		ND		--		--		ND	
	ug/L	03/16/11	1.90	10	ND		**2.81**	**J**	ND		ND		--		--		ND	
	ug/L	09/21/11	1.90	10	ND		ND		ND		ND		--		--		ND	
	ug/L	03/21/12	1.90	10	ND		ND		ND		ND		--		--		ND	
	ug/L	09/20/12	1.90	10	ND		ND		ND		ND		--		--		ND	
	ug/L	03/20/13	1.90	10	1.94	B	2.72	B	ND		ND		--		--		2.11	J
	ug/L	09/18/13	1.90	10	ND		ND		ND		ND		--		--		ND	
	ug/L	03/27/14	1.90	10	ND		ND		ND		ND		--		--		ND	
	ug/L	09/18/14	1.90	10	ND		ND		ND		ND		--		--		ND	
	ug/L	03/18/15	1.90	10	ND		**2.16**	**J**	ND		ND		--		--		ND	

TABLE 5

Summary of Detected Constituents in Surface Water Monitoring Points
Henderson County Closed MSW Landfill, Permit No. 45-01

Detected Monitoring Constituent/Parameter	Units	Date	MDL	SWS Reporting Limit	BR-1	BR-2	BR-3	SW-1	TSW-1	TSW-2	Blanks
Thallium	ug/L	12/05/94	200	5.5	ND	ND	ND	ND	--	--	--
No SW Standard	ug/L	02/14/95	200	5.5	ND	ND	--	ND	--	--	--
	ug/L	04/03/95	200	5.5	ND	ND	ND	ND	--	--	--
	ug/L	10/30/95	200	5.5	ND	ND	ND	ND	--	--	--
	ug/L	04/08/96	--	5.5	--	--	--	ND	--	--	--
	ug/L	10/24/96	--	5.5	ND	ND	ND	ND	--	--	--
	ug/L	04/15/97	--	5.5	ND	ND	ND	ND	--	--	--
	ug/L	10/29/97	--	5.5	206	1	2	1	--	--	--
	ug/L	05/14/98	--	5.5	ND	ND	ND	ND	--	--	--
	ug/L	11/11/98	--	5.5	ND	ND	ND	ND	--	--	--
	ug/L	06/04/99	--	5.5	ND	--	ND	ND	--	--	--
	ug/L	10/29/99	--	5.5	ND	--	ND	ND	--	--	--
	ug/L	04/20/00	--	5.5	ND	--	ND	ND	--	--	--
	ug/L	11/07/00	--	5.5	--	--	ND	ND	--	--	--
	ug/L	10/16/01	--	5.5	ND	--	ND	ND	--	--	--
	ug/L	04/24/02	--	5.5	ND	--	ND	ND	--	--	--
	ug/L	10/01/02	--	5.5	ND	--	ND	ND	--	--	--
	ug/L	04/09/03	--	5.5	ND	--	ND	ND	--	--	--
	ug/L	10/20/03	--	5.5	ND	ND	ND	ND	--	--	--
	ug/L	03/24/04	--	5.5	ND	ND	ND	ND	--	--	--
	ug/L	10/27/04	200	5.5	ND	ND	ND	ND	--	--	--
	ug/L	05/25/05	200	5.5	ND	ND	ND	ND	--	--	--
	ug/L	10/04/05	200	5.5	ND	ND	ND	ND	--	--	--
	ug/L	04/25/06	200	5.5	ND	ND	ND	ND	--	--	--
	ug/L	10/04/06	200	5.5	ND	ND	ND	ND	--	--	ND
	ug/L	03/21/07	200	5.5	ND	ND	ND	ND	--	--	ND
	ug/L	10/02/07	200	5.5	ND	ND	ND	ND	--	--	ND
	ug/L	04/03/08	200	5.5	ND	ND	ND	ND	--	--	ND
	ug/L	10/29/08	200	5.5	7.25	--	ND	ND	--	--	ND
	ug/L	03/24/09	0.036	5.5	ND	ND	ND	ND	--	--	0.092 J
	ug/L	09/22/09	0.110	5.5	ND	ND	ND	ND	--	--	ND
	ug/L	03/22/10	0.110	5.5	ND	ND	ND	ND	--	--	ND
	ug/L	09/23/10	0.110	5.5	ND	ND	ND	ND	--	--	ND
	ug/L	03/16/11	0.110	5.5	0.465 J	0.415 J	0.192 J	0.675 J	--	--	ND
	ug/L	09/21/11	0.110	5.5	ND	ND	ND	ND	--	--	ND
	ug/L	03/21/12	0.110	5.5	ND	ND	ND	ND	--	--	ND
	ug/L	09/20/12	0.110	5.5	ND	ND	ND	ND	--	--	ND
	ug/L	03/20/13	0.110	5.5	ND	ND	ND	ND	--	--	ND
	ug/L	09/18/13	0.110	5.5	ND	ND	ND	ND	--	--	0.142 J
	ug/L	03/27/14	0.110	5.5	ND	ND	ND	ND	--	--	ND
	ug/L	09/18/14	0.110	5.5	ND	ND	ND	ND	--	--	ND
	ug/L	03/18/15	0.110	5.5	ND	ND	ND	ND	--	--	ND
Vanadium	ug/L	12/05/94	40	25	ND	ND	ND	ND	--	--	--
No SW Standard	ug/L	02/14/95	40	25	ND	ND	--	ND	--	--	--
	ug/L	04/03/95	40	25	ND	ND	ND	ND	--	--	--
	ug/L	10/30/95	40	25	ND	ND	ND	ND	--	--	--
	ug/L	04/08/96	40	25	--	--	--	ND	--	--	--
	ug/L	10/24/96	--	25	ND	ND	ND	ND	--	--	--
	ug/L	04/15/97	--	25	ND	ND	ND	ND	--	--	--
	ug/L	10/29/97	--	25	ND	ND	ND	ND	--	--	--
	ug/L	05/14/98	--	25	ND	ND	ND	ND	--	--	--
	ug/L	11/11/98	--	25	ND	ND	ND	ND	--	--	--
	ug/L	06/04/99	--	25	ND	--	ND	ND	--	--	--
	ug/L	10/29/99	--	25	ND	--	ND	ND	--	--	--
	ug/L	04/20/00	--	25	ND	--	ND	ND	--	--	--
	ug/L	11/07/00	--	25	--	--	ND	ND	--	--	--
	ug/L	10/16/01	--	25	ND	--	ND	ND	--	--	--
	ug/L	04/24/02	--	25	ND	--	ND	ND	--	--	--
	ug/L	10/01/02	--	25	ND	--	ND	ND	--	--	--
	ug/L	04/09/03	--	25	ND	--	ND	ND	--	--	--
	ug/L	10/20/03	--	25	ND	ND	ND	ND	--	--	--
	ug/L	03/24/04	40	25	ND	ND	ND	ND	--	--	--
	ug/L	10/27/04	40	25	ND	ND	ND	ND	--	--	--
	ug/L	05/25/05	40	25	ND	ND	ND	ND	--	--	--
	ug/L	10/04/05	40	25	ND	60.5	ND	ND	--	--	--
	ug/L	04/25/06	40	25	ND	ND	ND	ND	--	--	--
	ug/L	10/04/06	40	25	ND	ND	ND	ND	--	--	ND
	ug/L	03/21/07	40	25	ND	ND	ND	ND	--	--	ND
	ug/L	10/02/07	40	25	ND	ND	ND	ND	--	--	ND
	ug/L	04/03/08	40	25	ND	4.61 J	ND	ND	--	--	ND
	ug/L	10/29/08	40	25	ND	--	2.04 J	2.59 J	--	--	ND
	ug/L	03/24/09	0.7	25	ND	ND	ND	ND	--	--	ND
	ug/L	09/22/09	1.40	25	ND	ND	ND	ND	--	--	ND
	ug/L	03/22/10	1.40	25	ND	ND	ND	ND	--	--	ND
	ug/L	09/23/10	1.40	25	ND	ND	ND	ND	--	--	ND
	ug/L	03/16/11	1.40	25	4.70 J	ND	ND	ND	--	--	ND
	ug/L	09/21/11	1.40	25	ND	8.61 J	ND	ND	--	--	ND
	ug/L	03/21/12	1.40	25	ND	ND	ND	ND	--	--	ND
	ug/L	09/20/12	1.40	25	ND	ND	ND	ND	--	--	ND
	ug/L	03/20/13	1.40	25	ND	ND	ND	ND	--	--	ND
	ug/L	09/18/13	1.40	25	ND	ND	ND	ND	--	--	0.142 J
	ug/L	03/27/14	1.40	25	ND	ND	ND	ND	--	--	ND
	ug/L	09/18/14	1.40	25	ND	ND	ND	ND	--	--	ND
	ug/L	03/18/15	1.40	25	ND	ND	ND	ND	--	--	ND

TABLE 5

Summary of Detected Constituents in Surface Water Monitoring Points
Henderson County Closed MSW Landfill, Permit No. 45-01

Detected Monitoring Constituent/Parameter	Units	Date	MDL	SWS Reporting Limit	BR-1	BR-2	BR-3	SW-1	TSW-1	TSW-2	Blanks
Zinc	ug/L	12/05/94	50	10	16	27	26	40	--	--	--
SW Standard = 50 ug/L*	ug/L	02/14/95	50	10	30	**300**	--	**71**	--	--	--
	ug/L	04/03/95	50	10	10	ND	21	**51**	--	--	--
	ug/L	10/30/95	50	10	ND	11	31	ND	--	--	--
	ug/L	04/08/96	50	10	--	--	--	40	--	--	--
	ug/L	10/24/96	--	10	28	ND	16	13	--	--	--
	ug/L	04/15/97	--	10	20	20	40	30	--	--	--
	ug/L	10/29/97	--	10	20	ND	ND	ND	--	--	--
	ug/L	05/14/98	--	10	ND	ND	ND	ND	--	--	--
	ug/L	11/11/98	--	10	ND	ND	**144**	ND	--	--	--
	ug/L	06/04/99	--	10	ND	--	**118**	ND	--	--	--
	ug/L	10/29/99	--	10	ND	--	ND	ND	--	--	--
	ug/L	04/20/00	--	10	ND	--	**394**	ND	--	--	--
	ug/L	11/07/00	--	10	--	--	ND	ND	--	--	--
	ug/L	10/16/01	--	10	ND	--	26	ND	--	--	--
	ug/L	04/24/02	--	10	ND	--	**132**	ND	--	--	--
	ug/L	10/01/02	--	10	ND	--	ND	ND	--	--	--
	ug/L	04/09/03	--	10	**82.7**	--	ND	63	--	--	--
	ug/L	10/20/03	--	10	ND	ND	ND	ND	--	--	--
	ug/L	03/24/04	--	10	ND	ND	ND	ND	--	--	--
	ug/L	10/27/04	--	10	ND	ND	ND	ND	--	--	--
	ug/L	05/25/05	--	10	ND	ND	ND	ND	--	--	--
	ug/L	10/04/05	50	10	ND	487	ND	ND	--	--	--
	ug/L	04/25/06	50	10	ND	ND	107	ND	--	--	--
	ug/L	10/04/06	50	10	ND	ND	ND	ND	--	--	ND
	ug/L	03/21/07	50	10	6.76 J	9.01 J	37	8.63 J	--	--	ND
	ug/L	10/02/07	50	10	5.22 J	15.3 J	24.4	24	--	--	ND
	ug/L	04/03/08	50	10	6.29 J	5.45 J	**52.5**	10.6	--	--	ND
	ug/L	10/29/08	50	10	9.19 J	--	37.6	29.4	--	--	ND
	ug/L	03/24/09	3.4	10	5.5 B	5.6 B	35.6	3.6 B	--	--	3.4 J
	ug/L	09/22/09	3.80	10	9.11 J	8.90 J	**71.4**	11.3	--	--	ND
	ug/L	03/22/10	3.80	10	11.4	6.16 J	24.9	9.02 J	--	--	ND
	ug/L	09/23/10	3.80	10	ND	4.03 J	46.1	18.8	--	--	ND
	ug/L	03/16/11	3.80	10	30.6	5.84 J	**53.8**	8.11 J	--	--	ND
	ug/L	09/21/11	3.80	10	6.85 J	22.1	**69.0**	ND	--	--	ND
	ug/L	03/21/12	3.80	10	ND	ND	22.7	ND	--	--	ND
	ug/L	09/20/12	3.80	10	ND	5.00 J	19.4	ND	--	--	ND
	ug/L	03/20/13	3.80	10	ND	6.72 J	35.9	ND	--	--	ND
	ug/L	09/18/13	3.80	10	9.22 J	4.03 J	12.5	ND	--	--	ND
	ug/L	03/27/14	3.80	10	ND	4.30 J	25.9	ND	--	--	ND
	ug/L	09/18/14	3.80	10	ND	5.11 J	9.98 J	ND	--	--	ND
	ug/L	03/18/15	3.80	10	ND	4.48 J	34.2	3.83 J	--	--	ND
Acetone	ug/L	12/05/94	100	100	ND	ND	ND	ND	--	--	--
SW Standard = 2000 ug/L	ug/L	02/14/95	100	100	ND	ND	ND	ND	--	--	--
	ug/L	04/03/95	100	100	ND	ND	ND	ND	--	--	--
	ug/L	10/30/95	100	100	ND	ND	ND	ND	--	--	--
	ug/L	04/08/96	100	100	--	ND	ND	ND	--	--	--
	ug/L	05/29/96	100	100	--	ND	ND	ND	--	--	--
	ug/L	06/06/96	100	100	--	ND	ND	ND	--	--	--
	ug/L	10/24/96	--	100	ND	ND	ND	ND	--	--	--
	ug/L	04/15/97	--	100	ND	ND	ND	ND	--	--	--
	ug/L	10/29/97	--	100	ND	ND	ND	ND	--	--	--
	ug/L	05/14/98	--	100	ND	ND	ND	ND	--	--	--
	ug/L	11/11/98	--	100	ND	ND	ND	ND	--	--	--
	ug/L	06/04/99	--	100	ND	ND	ND	ND	--	--	--
	ug/L	10/29/99	--	100	ND	ND	ND	ND	--	--	--
	ug/L	04/20/00	--	100	ND	ND	ND	ND	--	--	--
	ug/L	11/07/00	--	100	ND	ND	ND	ND	--	--	--
	ug/L	10/16/01	--	100	ND	--	ND	ND	--	--	--
	ug/L	04/24/02	--	100	ND	--	ND	ND	--	--	--
	ug/L	10/01/02	--	100	ND	--	ND	ND	--	--	--
	ug/L	04/09/03	100	100	ND	--	ND	ND	--	--	--
	ug/L	10/20/03	100	100	ND	ND	ND	ND	--	--	--
	ug/L	03/24/04	100	100	ND	ND	ND	ND	--	--	--
	ug/L	10/27/04	100	100	ND	ND	ND	ND	--	--	--
	ug/L	05/25/05	100	100	ND	ND	ND	ND	--	--	--
	ug/L	10/04/05	100	100	ND	ND	ND	ND	--	--	--
	ug/L	04/25/06	100	100	ND	ND	ND	ND	--	--	--
	ug/L	10/04/06	100	100	ND	ND	ND	ND	--	--	ND
	ug/L	03/21/07	100	100	ND	ND	ND	ND	--	--	ND
	ug/L	10/02/07	100	100	3.51 B	1.73 B	ND	ND	--	--	5.5 J
	ug/L	04/03/08	100	100	ND	ND	ND	ND	--	--	ND
	ug/L	10/29/08	100	100	ND	--	ND	ND	--	--	ND
	ug/L	03/24/09	1.5	100	ND	ND	ND	ND	--	--	ND
	ug/L	09/22/09	1.5	100	ND	ND	ND	ND	--	--	ND
	ug/L	03/22/10	1.5	100	2.3 J	ND	ND	2.5 J	--	--	ND
	ug/L	06/03/10	1.5	100	--	--	--	--	11 J	3.6 J	ND
	ug/L	09/23/10	1.5	100	ND	ND	ND	ND	--	--	ND
	ug/L	03/16/11	1.2	100	ND	4.2 J	3.0 J	ND	13 J	ND	ND
	ug/L	09/21/11	1.2	100	ND	7.0 J	ND	ND	5.5 J	ND	ND
	ug/L	03/21/12	1.2	100	ND	ND	ND	ND	dry	ND	ND
	ug/L	09/20/12	1.2	100	ND	7.4 B	ND	ND	dry	4.7 B	7.0 J
	ug/L	03/20/13	1.2	100	ND	ND	ND	ND	dry	ND	ND
	ug/L	09/18/13	1.2	100	ND	ND	ND	ND	dry	ND	ND
	ug/L	03/27/14	1.2	100	ND	ND	5.5 B	4.7 B	dry	ND	19 J
	ug/L	09/18/14	1.2	100	ND	ND	ND	ND	dry	ND	ND
	ug/L	03/18/15	1.2	100	ND	ND	ND	ND	dry	ND	ND

TABLE 5

Summary of Detected Constituents in Surface Water Monitoring Points
Henderson County Closed MSW Landfill, Permit No. 45-01

Detected Monitoring Constituent/Parameter	Units	Date	MDL	SWS Reporting Limit	BR-1	BR-2	BR-3	SW-1	TSW-1	TSW-2	Blanks
Benzene	ug/L	12/05/94	0.2	1	ND	ND	ND	ND	--	--	--
No SW Standard	ug/L	02/14/95	--	1	ND	ND	ND	ND	--	--	--
	ug/L	04/03/95	--	1	ND	ND	ND	ND	--	--	--
	ug/L	10/30/95	--	1	ND	ND	ND	ND	--	--	--
	ug/L	04/08/96	--	1	--	ND	ND	ND	--	--	--
	ug/L	05/29/96	--	1	--	ND	ND	ND	--	--	--
	ug/L	06/06/96	--	1	--	ND	ND	ND	--	--	--
	ug/L	10/24/96	--	1	ND	ND	ND	ND	--	--	--
	ug/L	04/15/97	--	1	ND	ND	ND	ND	--	--	--
	ug/L	10/29/97	--	1	ND	ND	ND	ND	--	--	--
	ug/L	05/14/98	--	1	ND	ND	ND	ND	--	--	--
	ug/L	11/11/98	--	1	ND	ND	ND	ND	--	--	--
	ug/L	06/04/99	--	1	ND	ND	ND	ND	--	--	--
	ug/L	10/29/99	--	1	ND	ND	ND	ND	--	--	--
	ug/L	04/20/00	--	1	ND	ND	ND	ND	--	--	--
	ug/L	11/07/00	--	1	ND	ND	ND	ND	--	--	--
	ug/L	10/16/01	--	1	ND	--	ND	ND	--	--	--
	ug/L	04/24/02	--	1	ND	--	ND	ND	--	--	--
	ug/L	10/01/02	--	1	ND	--	ND	ND	--	--	--
	ug/L	04/09/03	--	1	ND	--	ND	ND	--	--	--
	ug/L	10/20/03	--	1	ND	ND	ND	ND	--	--	--
	ug/L	03/24/04	--	1	ND	ND	ND	ND	--	--	--
	ug/L	10/27/04	--	1	ND	ND	ND	ND	--	--	--
	ug/L	05/25/05	--	1	ND	ND	ND	ND	--	--	--
	ug/L	10/04/05	--	1	ND	ND	ND	ND	--	--	--
	ug/L	04/25/06	--	1	ND	ND	ND	ND	--	--	--
	ug/L	10/04/06	--	1	ND	ND	ND	ND	--	--	ND
	ug/L	03/21/07	--	1	ND	0.86 J	ND	ND	--	--	ND
	ug/L	10/02/07	--	1	0.16 J	0.76 J	ND	ND	--	--	ND
	ug/L	04/03/08	--	1	ND	0.39 J	ND	ND	--	--	ND
	ug/L	10/29/08	--	1	0.12 J	--	ND	ND	--	--	ND
	ug/L	03/24/09	0.20	1	ND	ND	ND	ND	--	--	ND
	ug/L	09/22/09	0.20	1	ND	ND	ND	ND	--	--	ND
	ug/L	03/22/10	0.050	1	ND	ND	ND	ND	--	--	ND
	ug/L	06/03/10	0.050	1	--	--	--	--	ND	ND	ND
	ug/L	09/23/10	0.20	1	ND	ND	ND	ND	--	--	ND
	ug/L	03/16/11	0.68	1	ND	ND	ND	ND	ND	ND	ND
	ug/L	09/21/11	0.68	1	ND	ND	ND	ND	ND	ND	ND
	ug/L	03/21/12	0.15	1	ND	0.46 J	ND	ND	dry	ND	ND
	ug/L	09/20/12	0.15	1	ND	ND	ND	ND	dry	ND	ND
	ug/L	03/20/13	0.15	1	ND	ND	ND	ND	dry	ND	ND
	ug/L	09/18/13	0.15	1	ND	ND	ND	ND	dry	ND	1.75 J
	ug/L	03/27/14	0.15	1	ND	ND	ND	ND	dry	ND	ND
	ug/L	09/18/14	0.15	1	ND	ND	ND	ND	dry	ND	ND
	ug/L	03/18/15	0.15	1	ND	ND	ND	ND	dry	ND	ND
Chlorobenzene	ug/L	12/05/94	0.27	3	ND	ND	ND	ND	--	--	--
SW Standard = 140 ug/L	ug/L	02/14/95	--	3	ND	ND	ND	ND	--	--	--
	ug/L	04/03/95	--	3	ND	ND	ND	ND	--	--	--
	ug/L	10/30/95	--	3	ND	ND	ND	ND	--	--	--
	ug/L	04/08/96	--	3	--	ND	ND	ND	--	--	--
	ug/L	05/29/96	--	3	--	ND	ND	ND	--	--	--
	ug/L	06/06/96	--	3	--	ND	ND	ND	--	--	--
	ug/L	10/24/96	--	3	ND	ND	ND	ND	--	--	--
	ug/L	04/15/97	--	3	ND	ND	ND	ND	--	--	--
	ug/L	10/29/97	--	3	ND	ND	ND	ND	--	--	--
	ug/L	05/14/98	--	3	ND	ND	ND	ND	--	--	--
	ug/L	11/11/98	--	3	ND	ND	ND	ND	--	--	--
	ug/L	06/04/99	--	3	ND	ND	ND	ND	--	--	--
	ug/L	10/29/99	--	3	ND	ND	ND	ND	--	--	--
	ug/L	04/20/00	--	3	ND	ND	ND	ND	--	--	--
	ug/L	11/07/00	--	3	ND	ND	ND	ND	--	--	--
	ug/L	10/16/01	--	3	ND	--	ND	ND	--	--	--
	ug/L	04/24/02	--	3	ND	--	ND	ND	--	--	--
	ug/L	10/01/02	--	3	ND	--	ND	ND	--	--	--
	ug/L	04/09/03	--	3	ND	--	ND	ND	--	--	--
	ug/L	10/20/03	--	3	ND	ND	ND	ND	--	--	--
	ug/L	03/24/04	--	3	ND	ND	ND	ND	--	--	--
	ug/L	10/27/04	--	3	ND	ND	ND	ND	--	--	--
	ug/L	05/25/05	--	3	ND	ND	ND	ND	--	--	--
	ug/L	10/04/05	--	3	ND	ND	ND	ND	--	--	--
	ug/L	04/25/06	--	3	ND	ND	ND	ND	--	--	--
	ug/L	10/04/06	--	3	ND	ND	ND	ND	--	--	ND
	ug/L	03/21/07	--	3	ND	1.69	ND	ND	--	--	ND
	ug/L	10/02/07	--	3	0.86 J	2.2 J	ND	ND	--	--	ND
	ug/L	04/03/08	--	3	0.43 J	1.22 J	ND	ND	--	--	ND
	ug/L	10/29/08	--	3	0.86 J	--	ND	ND	--	--	ND
	ug/L	03/24/09	0.27	3	0.53 J	0.72 J	ND	ND	--	--	ND
	ug/L	09/22/09	0.27	3	ND	1.0 J	ND	ND	--	--	ND
	ug/L	03/22/10	0.069	3	ND	0.77 J	ND	ND	--	--	ND
	ug/L	06/03/10	0.069	3	--	--	--	--	ND	ND	ND
	ug/L	09/23/10	0.27	3	0.42 J	0.79 J	ND	ND	--	--	ND
	ug/L	03/16/11	0.74	3	ND	1.1 J	ND	ND	ND	ND	ND
	ug/L	09/21/11	0.74	3	ND	ND	ND	ND	ND	ND	ND
	ug/L	03/21/12	0.17	3	ND	2.2 J	ND	ND	dry	ND	ND
	ug/L	09/20/12	0.17	3	ND	ND	ND	ND	dry	ND	ND
	ug/L	03/20/13	0.17	3	ND	0.46 J	ND	ND	dry	ND	ND
	ug/L	09/18/13	0.17	3	ND	0.55 J	ND	ND	dry	ND	ND
	ug/L	03/27/14	0.17	3	ND	ND	ND	ND	dry	ND	ND
	ug/L	09/18/14	0.17	3	ND	ND	ND	ND	dry	ND	ND
	ug/L	03/18/15	0.17	3	ND	0.70 J	ND	ND	dry	ND	ND

TABLE 5

Summary of Detected Constituents in Surface Water Monitoring Points
Henderson County Closed MSW Landfill, Permit No. 45-01

Detected Monitoring Constituent/Parameter	Units	Date	MDL	SWS Reporting Limit	BR-1	BR-2	BR-3	SW-1	TSW-1	TSW-2	Blanks
Dibromochloromethane	ug/L	12/05/94	5	1	ND	ND	ND	ND	--	--	--
No SW Standard	ug/L	02/14/95	5	1	ND	ND	ND	ND	--	--	--
	ug/L	04/03/95	5	1	ND	ND	ND	ND	--	--	--
	ug/L	10/30/95	5	1	ND	ND	ND	ND	--	--	--
	ug/L	04/08/96	5	1	--	ND	ND	ND	--	--	--
	ug/L	05/29/96	5	1	--	ND	ND	ND	--	--	--
	ug/L	06/06/96	5	1	--	ND	ND	ND	--	--	--
	ug/L	10/24/96	--	1	ND	ND	ND	ND	--	--	--
	ug/L	04/15/97	--	1	ND	ND	ND	ND	--	--	--
	ug/L	10/29/97	--	1	ND	ND	ND	ND	--	--	--
	ug/L	05/14/98	--	1	ND	ND	ND	ND	--	--	--
	ug/L	11/11/98	--	1	ND	ND	ND	ND	--	--	--
	ug/L	06/04/99	--	1	ND	ND	ND	ND	--	--	--
	ug/L	10/29/99	--	1	ND	ND	ND	ND	--	--	--
	ug/L	04/20/00	--	1	ND	ND	ND	ND	--	--	--
	ug/L	11/07/00	--	1	ND	ND	ND	ND	--	--	--
	ug/L	10/16/01	--	1	ND	--	ND	ND	--	--	--
	ug/L	04/24/02	--	1	ND	--	ND	ND	--	--	--
	ug/L	10/01/02	--	1	ND	--	ND	ND	--	--	--
	ug/L	04/09/03	--	1	ND	--	ND	ND	--	--	--
	ug/L	10/20/03	--	1	ND	ND	ND	ND	--	--	--
	ug/L	03/24/04	--	1	ND	ND	ND	ND	--	--	--
	ug/L	10/27/04	--	1	ND	ND	ND	ND	--	--	--
	ug/L	05/25/05	5	1	ND	ND	ND	ND	--	--	--
	ug/L	10/04/05	5	1	ND	ND	ND	ND	--	--	--
	ug/L	04/25/06	5	1	ND	ND	ND	ND	--	--	--
	ug/L	10/04/06	5	1	ND	ND	ND	ND	--	--	ND
	ug/L	03/21/07	5	1	ND	ND	ND	ND	--	--	ND
	ug/L	10/02/07	5	1	ND	ND	ND	ND	--	--	ND
	ug/L	04/03/08	5	1	ND	ND	ND	0.14 J	--	--	ND
	ug/L	10/29/08	5	1	ND	--	ND	ND	--	--	ND
	ug/L	03/24/09	0.32	3	ND	ND	ND	ND	--	--	ND
	ug/L	09/22/09	0.32	3	ND	ND	ND	ND	--	--	ND
	ug/L	03/22/10	0.067	3	ND	ND	ND	ND	--	--	ND
	ug/L	06/03/10	0.067	3	--	--	--	--	ND	ND	ND
	ug/L	09/23/10	0.32	3	ND	ND	ND	ND	--	--	ND
	ug/L	03/16/11	0.63	3	ND	ND	ND	ND	ND	ND	ND
	ug/L	09/21/11	0.63	3	ND	ND	ND	ND	ND	ND	ND
	ug/L	03/21/12	0.17	3	ND	ND	ND	ND	dry	ND	ND
	ug/L	09/20/12	0.17	3	ND	ND	ND	ND	dry	ND	ND
	ug/L	03/20/13	0.17	3	ND	ND	ND	ND	dry	ND	ND
	ug/L	09/18/13	0.17	3	ND	ND	ND	ND	dry	ND	ND
	ug/L	03/27/14	0.17	3	ND	ND	ND	ND	dry	ND	ND
	ug/L	09/18/14	0.17	3	ND	ND	ND	ND	dry	ND	ND
	ug/L	03/18/15	0.17	3	ND	ND	ND	ND	dry	ND	ND
1,2-Dichlorobenzene	ug/L	12/05/94	0.27	5	ND	ND	ND	ND	--	--	--
SW Standard = 470 ug/L	ug/L	02/14/95	--	5	ND	ND	ND	ND	--	--	--
	ug/L	04/03/95	--	5	ND	ND	ND	ND	--	--	--
	ug/L	10/30/95	--	5	ND	ND	ND	ND	--	--	--
	ug/L	04/08/96	--	5	--	ND	ND	ND	--	--	--
	ug/L	05/29/96	--	5	--	ND	ND	ND	--	--	--
	ug/L	06/06/96	--	5	--	ND	ND	ND	--	--	--
	ug/L	10/24/96	--	5	ND	ND	ND	ND	--	--	--
	ug/L	04/15/97	--	5	ND	ND	ND	ND	--	--	--
	ug/L	10/29/97	--	5	ND	ND	ND	ND	--	--	--
	ug/L	05/14/98	--	5	ND	ND	ND	ND	--	--	--
	ug/L	11/11/98	--	5	ND	ND	ND	ND	--	--	--
	ug/L	06/04/99	--	5	ND	ND	ND	ND	--	--	--
	ug/L	10/29/99	--	5	ND	ND	ND	ND	--	--	--
	ug/L	04/20/00	--	5	ND	ND	ND	ND	--	--	--
	ug/L	11/07/00	--	5	ND	ND	ND	ND	--	--	--
	ug/L	10/16/01	--	5	ND	--	ND	ND	--	--	--
	ug/L	04/24/02	--	5	ND	--	ND	ND	--	--	--
	ug/L	10/01/02	--	5	ND	--	ND	ND	--	--	--
	ug/L	04/09/03	--	5	ND	--	ND	ND	--	--	--
	ug/L	10/20/03	--	5	ND	ND	ND	ND	--	--	--
	ug/L	03/24/04	--	5	ND	ND	ND	ND	--	--	--
	ug/L	10/27/04	--	5	ND	ND	ND	ND	--	--	--
	ug/L	05/25/05	--	5	ND	ND	ND	ND	--	--	--
	ug/L	10/04/05	--	5	ND	ND	ND	ND	--	--	--
	ug/L	04/25/06	--	5	ND	ND	ND	ND	--	--	--
	ug/L	10/04/06	--	5	ND	ND	ND	ND	--	--	ND
	ug/L	03/21/07	--	5	ND	ND	ND	ND	--	--	ND
	ug/L	10/02/07	--	5	0.27 J	0.23 J	ND	ND	--	--	ND
	ug/L	04/03/08	--	5	0.12 J	ND	ND	ND	--	--	ND
	ug/L	10/29/08	--	5	0.28 J	--	ND	ND	--	--	ND
	ug/L	03/24/09	0.27	5	ND	0.49 J	ND	ND	--	--	ND
	ug/L	09/22/09	0.27	5	ND	ND	ND	ND	--	--	ND
	ug/L	03/22/10	0.052	5	ND	ND	ND	ND	--	--	ND
	ug/L	06/03/10	0.052	5	--	--	--	--	ND	ND	ND
	ug/L	09/23/10	0.27	5	ND	ND	ND	ND	--	--	ND
	ug/L	03/16/11	0.11	5	ND	0.79 J	ND	ND	ND	ND	ND
	ug/L	09/21/11	0.11	5	ND	ND	ND	ND	ND	ND	ND
	ug/L	03/21/12	0.19	5	ND	0.51 J	ND	ND	dry	ND	ND
	ug/L	09/20/12	0.19	5	ND	0.59 J	ND	ND	dry	ND	ND
	ug/L	03/20/13	0.19	5	ND	ND	ND	ND	dry	ND	ND
	ug/L	09/18/13	0.19	5	ND	0.48 J	ND	ND	dry	ND	ND
	ug/L	03/27/14	0.19	5	ND	ND	ND	ND	dry	ND	ND
	ug/L	09/18/14	0.19	5	ND	ND	ND	ND	dry	ND	ND
	ug/L	03/18/15	0.19	5	ND	0.60 J	ND	ND	dry	ND	ND

TABLE 5

Summary of Detected Constituents in Surface Water Monitoring Points
Henderson County Closed MSW Landfill, Permit No. 45-01

Detected Monitoring Constituent/Parameter	Units	Date	MDL	SWS Reporting Limit	BR-1	BR-2	BR-3	SW-1	TSW-1	TSW-2	Blanks
1,4-Dichlorobenzene	ug/L	12/05/94	0.2	1	ND	ND	ND	--	--	--	--
SW Standard = 100 ug/L	ug/L	02/14/95	--	1	ND	ND	ND	--	--	--	--
	ug/L	04/03/95	--	1	ND	ND	ND	--	--	--	--
	ug/L	10/30/95	--	1	ND	ND	ND	ND	--	--	--
	ug/L	04/08/96	--	1	--	ND	ND	--	--	--	--
	ug/L	05/29/96	--	1	--	ND	ND	--	--	--	--
	ug/L	06/06/96	--	1	--	ND	ND	--	--	--	--
	ug/L	10/24/96	--	1	ND	ND	ND	ND	--	--	--
	ug/L	04/15/97	--	1	ND	ND	ND	ND	--	--	--
	ug/L	10/29/97	--	1	ND	ND	ND	ND	--	--	--
	ug/L	05/14/98	--	1	ND	ND	ND	ND	--	--	--
	ug/L	11/11/98	--	1	ND	ND	ND	ND	--	--	--
	ug/L	06/04/99	--	1	ND	ND	ND	ND	--	--	--
	ug/L	10/29/99	--	1	ND	ND	ND	ND	--	--	--
	ug/L	04/20/00	--	1	ND	ND	ND	ND	--	--	--
	ug/L	11/07/00	--	1	ND	ND	ND	ND	--	--	--
	ug/L	10/16/01	--	1	ND	--	ND	ND	--	--	--
	ug/L	04/24/02	--	1	ND	--	ND	ND	--	--	--
	ug/L	10/01/02	--	1	ND	--	ND	ND	--	--	--
	ug/L	04/09/03	--	1	ND	--	ND	ND	--	--	--
	ug/L	10/20/03	--	1	ND	ND	ND	ND	--	--	--
	ug/L	03/24/04	--	1	ND	ND	ND	ND	--	--	--
	ug/L	10/27/04	--	1	ND	ND	ND	ND	--	--	--
	ug/L	05/25/05	--	1	ND	ND	ND	ND	--	--	--
	ug/L	10/04/05	--	1	ND	ND	ND	ND	--	--	--
	ug/L	04/25/06	--	1	ND	ND	ND	ND	--	--	--
	ug/L	10/04/06	--	1	ND	ND	ND	ND	--	--	ND
	ug/L	03/21/07	--	1	0.19 J	2.26	0.37 J	ND	--	--	ND
	ug/L	10/02/07	--	1	0.87 J	3.57	ND	ND	--	--	ND
	ug/L	04/03/08	--	1	0.39 J	1.55 J	ND	ND	--	--	ND
	ug/L	10/29/08	--	1	1.01 J	--	ND	ND	--	--	ND
	ug/L	03/24/09	0.38	1	0.59 J	2.4	ND	ND	--	--	ND
	ug/L	09/22/09	0.38	1	ND	1.6	ND	ND	--	--	ND
	ug/L	03/22/10	0.10	1	ND	1.4	ND	ND	--	--	ND
	ug/L	06/03/10	0.10	1	--	--	--	--	ND	ND	ND
	ug/L	09/23/10	0.38	1	ND	3.0	ND	ND	--	--	ND
	ug/L	03/16/11	0.79	1	ND	2.8	ND	ND	ND	ND	ND
	ug/L	09/21/11	0.79	1	ND	ND	ND	ND	ND	ND	ND
	ug/L	03/21/12	0.19	1	ND	4.5	ND	ND	dry	ND	ND
	ug/L	09/20/12	0.19	1	0.40 J	5.9	ND	ND	dry	ND	ND
	ug/L	03/20/13	0.19	1	ND	1.4	ND	ND	dry	ND	ND
	ug/L	09/18/13	0.19	1	ND	1.7	ND	ND	dry	ND	ND
	ug/L	03/27/14	0.19	1	ND	ND	ND	ND	dry	ND	ND
	ug/L	09/18/14	0.19	1	ND	0.55 J	ND	ND	dry	ND	ND
	ug/L	03/18/15	0.19	1	ND	2.2	ND	ND	dry	ND	ND
1,1-Dichloroethane	ug/L	12/05/94	5	5	ND	ND	ND	ND	--	--	--
SW Standard = 20,000 ug/L	ug/L	02/14/95	5	5	ND	ND	ND	ND	--	--	--
	ug/L	04/03/95	5	5	ND	ND	ND	ND	--	--	--
	ug/L	10/30/95	5	5	ND	ND	ND	ND	--	--	--
	ug/L	04/08/96	5	5	--	ND	ND	ND	--	--	--
	ug/L	05/29/96	--	5	--	ND	ND	ND	--	--	--
	ug/L	06/06/96	--	5	--	ND	ND	ND	--	--	--
	ug/L	10/24/96	--	5	ND	ND	ND	ND	--	--	--
	ug/L	04/15/97	--	5	ND	ND	ND	ND	--	--	--
	ug/L	10/29/97	--	5	ND	ND	ND	ND	--	--	--
	ug/L	05/14/98	--	5	ND	ND	ND	ND	--	--	--
	ug/L	11/11/98	--	5	ND	ND	ND	ND	--	--	--
	ug/L	06/04/99	--	5	ND	ND	ND	ND	--	--	--
	ug/L	10/29/99	--	5	ND	ND	ND	ND	--	--	--
	ug/L	04/20/00	--	5	ND	ND	ND	ND	--	--	--
	ug/L	11/07/00	--	5	ND	ND	ND	ND	--	--	--
	ug/L	10/16/01	--	5	ND	--	ND	ND	--	--	--
	ug/L	04/24/02	--	5	ND	--	ND	ND	--	--	--
	ug/L	10/01/02	--	5	ND	--	ND	ND	--	--	--
	ug/L	04/09/03	--	5	ND	--	ND	ND	--	--	--
	ug/L	10/20/03	--	5	ND	ND	ND	ND	--	--	--
	ug/L	03/24/04	--	5	ND	ND	ND	ND	--	--	--
	ug/L	10/27/04	--	5	ND	ND	ND	ND	--	--	--
	ug/L	05/25/05	--	5	ND	ND	ND	ND	--	--	--
	ug/L	10/04/05	--	5	ND	ND	ND	ND	--	--	--
	ug/L	04/25/06	--	5	ND	ND	ND	ND	--	--	--
	ug/L	10/04/06	5	5	ND	ND	ND	ND	--	--	ND
	ug/L	03/21/07	5	5	ND	0.23 J	ND	ND	--	--	ND
	ug/L	10/02/07	5	5	0.21 J	0.41 J	ND	ND	--	--	ND
	ug/L	04/03/08	5	5	0.09 J	0.14 J	ND	ND	--	--	ND
	ug/L	10/29/08	5	5	0.18 J	--	ND	ND	--	--	ND
	ug/L	03/24/09	0.33	5	ND	ND	ND	ND	--	--	ND
	ug/L	09/22/09	0.33	5	ND	ND	ND	ND	--	--	ND
	ug/L	03/22/10	0.050	5	ND	ND	ND	ND	--	--	ND
	ug/L	06/03/10	0.050	5	--	--	--	--	ND	ND	ND
	ug/L	09/23/10	0.33	5	ND	ND	ND	ND	--	--	ND
	ug/L	03/16/11	0.080	5	ND	ND	ND	ND	ND	ND	ND
	ug/L	09/21/11	0.080	5	ND	ND	ND	ND	ND	ND	ND
	ug/L	03/21/12	0.13	5	ND	ND	ND	ND	dry	ND	ND
	ug/L	09/20/12	0.13	5	ND	ND	ND	ND	dry	ND	ND
	ug/L	03/20/13	0.13	5	ND	ND	ND	ND	dry	ND	ND
	ug/L	09/18/13	0.13	5	ND	ND	ND	ND	dry	ND	ND
	ug/L	03/27/14	0.13	5	ND	ND	ND	ND	dry	ND	ND
	ug/L	09/18/14	0.13	5	ND	ND	ND	ND	dry	ND	ND
	ug/L	03/18/15	0.13	5	ND	ND	ND	ND	dry	ND	ND

TABLE 5

Summary of Detected Constituents in Surface Water Monitoring Points
Henderson County Closed MSW Landfill, Permit No. 45-01

Detected Monitoring Constituent/Parameter	Units	Date	MDL	SWS Reporting Limit	BR-1	BR-2	BR-3	SW-1	TSW-1	TSW-2	Blanks
cis-1,2-Dichloroethene	ug/L	12/05/94	0.3	5	ND	ND	ND	ND	--	--	--
No SW Standard	ug/L	02/14/95	--	5	ND	ND	ND	ND	--	--	--
	ug/L	04/03/95	--	5	ND	ND	ND	ND	--	--	--
	ug/L	10/30/95	--	5	ND	ND	ND	ND	--	--	--
	ug/L	04/08/96	--	5	--	ND	ND	ND	--	--	--
	ug/L	05/29/96	--	5	--	ND	ND	--	--	--	--
	ug/L	06/06/96	--	5	--	ND	ND	--	--	--	--
	ug/L	10/24/96	--	5	ND	ND	ND	ND	--	--	--
	ug/L	04/15/97	--	5	ND	ND	ND	ND	--	--	--
	ug/L	10/29/97	--	5	ND	ND	ND	ND	--	--	--
	ug/L	05/14/98	--	5	ND	ND	ND	ND	--	--	--
	ug/L	11/11/98	--	5	ND	ND	ND	ND	--	--	--
	ug/L	06/04/99	--	5	ND	ND	ND	ND	--	--	--
	ug/L	10/29/99	--	5	ND	ND	ND	ND	--	--	--
	ug/L	04/20/00	--	5	ND	ND	ND	ND	--	--	--
	ug/L	11/07/00	--	5	ND	ND	ND	ND	--	--	--
	ug/L	10/16/01	--	5	ND	--	ND	ND	--	--	--
	ug/L	04/24/02	--	5	ND	--	ND	ND	--	--	--
	ug/L	10/01/02	--	5	ND	--	ND	ND	--	--	--
	ug/L	04/09/03	--	5	ND	--	ND	ND	--	--	--
	ug/L	10/20/03	--	5	ND	ND	ND	ND	--	--	--
	ug/L	03/24/04	--	5	ND	ND	ND	ND	--	--	--
	ug/L	10/27/04	--	5	ND	ND	ND	ND	--	--	--
	ug/L	05/25/05	--	5	ND	ND	ND	ND	--	--	--
	ug/L	10/04/05	--	5	ND	ND	ND	ND	--	--	--
	ug/L	04/25/06	--	5	ND	ND	ND	ND	--	--	--
	ug/L	10/04/06	--	5	ND	ND	ND	ND	--	--	ND
	ug/L	03/21/07	--	5	0.64 J	ND	ND	ND	--	--	ND
	ug/L	10/02/07	--	5	0.09 J	0.97 J	ND	ND	--	--	ND
	ug/L	04/03/08	--	5	ND	0.71 J	ND	ND	--	--	ND
	ug/L	10/29/08	--	5	ND	--	ND	ND	--	--	ND
	ug/L	03/24/09	0.36	5	ND	ND	ND	ND	--	--	ND
	ug/L	09/22/09	0.36	5	ND	ND	ND	ND	--	--	ND
	ug/L	03/22/10	0.075	5	ND	ND	ND	ND	--	--	ND
	ug/L	06/03/10	0.075	5	--	--	--	--	ND	ND	ND
	ug/L	09/23/10	0.36	5	ND	ND	ND	ND	--	--	ND
	ug/L	03/16/11	0.72	5	ND	ND	ND	ND	ND	ND	ND
	ug/L	09/21/11	0.72	5	ND	ND	ND	ND	ND	ND	ND
	ug/L	03/21/12	0.15	5	ND	ND	ND	ND	dry	ND	ND
	ug/L	09/20/12	0.15	5	ND	ND	ND	ND	dry	ND	ND
	ug/L	03/20/13	0.15	5	ND	ND	ND	ND	dry	ND	ND
	ug/L	09/18/13	0.15	5	ND	ND	ND	ND	dry	ND	ND
	ug/L	03/27/14	0.15	5	ND	ND	ND	ND	dry	ND	ND
	ug/L	09/18/14	0.15	5	ND	ND	ND	ND	dry	ND	ND
	ug/L	03/18/15	0.15	5	ND	ND	ND	ND	dry	ND	ND
Chloromethane	ug/L	12/05/94	--	1	ND	ND	ND	ND	--	--	--
No SW Standard	ug/L	02/14/95	--	1	ND	ND	ND	ND	--	--	--
	ug/L	04/03/95	--	1	ND	ND	ND	ND	--	--	--
	ug/L	10/30/95	--	1	ND	ND	ND	ND	--	--	--
	ug/L	04/08/96	--	1	--	ND	ND	ND	--	--	--
	ug/L	05/29/96	--	1	--	ND	ND	--	--	--	--
	ug/L	06/06/96	--	1	--	ND	ND	--	--	--	--
	ug/L	10/24/96	--	1	ND	ND	ND	ND	--	--	--
	ug/L	04/15/97	--	1	ND	ND	ND	ND	--	--	--
	ug/L	10/29/97	--	1	ND	ND	ND	ND	--	--	--
	ug/L	05/14/98	--	1	ND	ND	ND	ND	--	--	--
	ug/L	11/11/98	--	1	ND	ND	ND	ND	--	--	--
	ug/L	06/04/99	--	1	ND	ND	ND	ND	--	--	--
	ug/L	10/29/99	--	1	ND	ND	ND	ND	--	--	--
	ug/L	04/20/00	--	1	ND	ND	ND	ND	--	--	--
	ug/L	11/07/00	--	1	ND	ND	ND	ND	--	--	--
	ug/L	10/16/01	--	1	ND	--	ND	ND	--	--	--
	ug/L	04/24/02	--	1	ND	--	ND	ND	--	--	--
	ug/L	10/01/02	--	1	ND	--	ND	ND	--	--	--
	ug/L	04/09/03	--	1	ND	--	ND	ND	--	--	--
	ug/L	10/20/03	--	1	ND	ND	ND	ND	--	--	--
	ug/L	03/24/04	--	1	ND	ND	ND	ND	--	--	--
	ug/L	10/27/04	--	1	ND	ND	ND	ND	--	--	--
	ug/L	05/25/05	--	1	ND	ND	ND	ND	--	--	--
	ug/L	10/04/05	--	1	ND	ND	ND	ND	--	--	--
	ug/L	04/25/06	--	1	ND	ND	ND	ND	--	--	--
	ug/L	10/04/06	--	1	ND	ND	ND	ND	--	--	ND
	ug/L	03/21/07	--	1	ND	ND	ND	ND	--	--	ND
	ug/L	10/02/07	--	1	ND	ND	ND	ND	--	--	ND
	ug/L	04/03/08	--	1	ND	ND	ND	ND	--	--	ND
	ug/L	10/29/08	--	1	ND	--	ND	ND	--	--	ND
	ug/L	03/24/09	0.34	1	ND	ND	ND	ND	--	--	ND
	ug/L	09/22/09	0.34	1	ND	ND	ND	ND	--	--	ND
	ug/L	03/22/10	0.050	1	ND	ND	ND	ND	--	--	ND
	ug/L	06/03/10	0.050	1	--	--	--	--	ND	ND	ND
	ug/L	09/23/10	0.34	1	ND	0.43 J	ND	0.41 J	--	--	ND
	ug/L	03/16/11	0.55	1	ND	ND	ND	ND	ND	ND	ND
	ug/L	09/21/11	0.55	1	ND	ND	ND	ND	ND	ND	ND
	ug/L	03/21/12	0.13	1	ND	ND	ND	ND	dry	ND	ND
	ug/L	09/20/12	0.13	1	ND	ND	ND	ND	dry	ND	ND
	ug/L	03/20/13	0.13	1	ND	ND	ND	ND	dry	ND	ND
	ug/L	09/18/13	0.13	1	ND	ND	ND	ND	dry	ND	ND
	ug/L	03/27/14	0.13	1	ND	ND	ND	ND	dry	ND	ND
	ug/L	09/18/14	0.13	1	ND	ND	ND	ND	dry	ND	ND
	ug/L	03/18/15	0.13	1	ND	ND	ND	ND	dry	ND	ND

TABLE 5

Summary of Detected Constituents in Surface Water Monitoring Points
Henderson County Closed MSW Landfill, Permit No. 45-01

Detected Monitoring Constituent/Parameter	Units	Date	MDL	SWS Reporting Limit	BR-1	BR-2	BR-3	SW-1	TSW-1	TSW-2	Blanks
Methylene chloride	ug/L	12/05/94	0.24	1	ND	ND	ND	ND	--	--	--
No SW Standard	ug/L	02/14/95	--	1	ND	ND	ND	ND	--	--	--
	ug/L	04/03/95	--	1	ND	ND	ND	ND	--	--	--
	ug/L	10/30/95	--	1	ND	ND	ND	ND	--	--	--
	ug/L	04/08/96	--	1	--	ND	ND	ND	--	--	--
	ug/L	05/29/96	--	1	--	ND	ND	ND	--	--	--
	ug/L	06/06/96	--	1	--	ND	ND	ND	--	--	--
	ug/L	10/24/96	--	1	ND	ND	ND	ND	--	--	--
	ug/L	04/15/97	--	1	ND	ND	ND	ND	--	--	--
	ug/L	10/29/97	--	1	ND	ND	ND	ND	--	--	--
	ug/L	05/14/98	--	1	ND	ND	ND	ND	--	--	--
	ug/L	11/11/98	--	1	ND	ND	ND	ND	--	--	--
	ug/L	06/04/99	--	1	ND	ND	ND	ND	--	--	--
	ug/L	10/29/99	--	1	ND	ND	ND	ND	--	--	--
	ug/L	04/20/00	--	1	ND	ND	ND	ND	--	--	--
	ug/L	11/07/00	--	1	ND	ND	ND	ND	--	--	--
	ug/L	10/16/01	--	1	ND	--	ND	ND	--	--	--
	ug/L	04/24/02	--	1	ND	--	ND	ND	--	--	--
	ug/L	10/01/02	--	1	ND	--	ND	ND	--	--	--
	ug/L	04/09/03	--	1	ND	--	ND	ND	--	--	--
	ug/L	10/20/03	--	1	ND	ND	ND	ND	--	--	--
	ug/L	03/24/04	--	1	ND	ND	ND	ND	--	--	--
	ug/L	10/27/04	--	1	ND	ND	ND	ND	--	--	--
	ug/L	05/25/05	--	1	ND	ND	ND	ND	--	--	--
	ug/L	10/04/05	--	1	ND	ND	ND	ND	--	--	--
	ug/L	04/25/06	--	1	ND	ND	ND	ND	--	--	--
	ug/L	10/04/06	--	1	ND	ND	ND	ND	--	--	ND
	ug/L	03/21/07	--	1	ND	ND	ND	ND	--	--	ND
	ug/L	10/02/07	--	1	ND	ND	ND	ND	--	--	0.41 J
	ug/L	04/03/08	--	1	ND	ND	ND	ND	--	--	0.42 J
	ug/L	10/29/08	0.44	1	ND	--	ND	0.19 J	--	--	ND
	ug/L	03/24/09	0.53	1	ND	ND	ND	ND	--	--	ND
	ug/L	09/22/09	0.53	1	ND	ND	ND	ND	--	--	ND
	ug/L	03/22/10	0.070	1	ND	ND	ND	ND	--	--	ND
	ug/L	06/03/10	0.070	1	--	--	--	--	ND	ND	ND
	ug/L	09/23/10	0.53	1	ND	ND	ND	ND	--	--	ND
	ug/L	03/16/11	0.14	1	ND	ND	ND	ND	ND	ND	ND
	ug/L	09/21/11	0.14	1	ND	ND	ND	ND	ND	ND	ND
	ug/L	03/21/12	0.23	1	ND	ND	ND	ND	dry	ND	ND
	ug/L	09/20/12	0.23	1	ND	ND	ND	ND	dry	ND	ND
	ug/L	03/20/13	0.23	1	ND	ND	ND	ND	dry	ND	ND
	ug/L	09/18/13	0.23	1	ND	ND	ND	ND	dry	ND	ND
	ug/L	03/27/14	0.23	1	ND	ND	ND	ND	dry	ND	ND
	ug/L	09/18/14	0.23	1	ND	ND	ND	ND	dry	ND	ND
	ug/L	03/18/15	0.23	1	ND	ND	ND	ND	dry	ND	ND
Tetrachloroethene	ug/L	12/05/94	0.36	1	ND	ND	ND	ND	--	--	--
No SW Standard	ug/L	02/14/95	--	1	ND	ND	ND	ND	--	--	--
	ug/L	04/03/95	--	1	ND	ND	ND	ND	--	--	--
	ug/L	10/30/95	--	1	ND	ND	ND	ND	--	--	--
	ug/L	04/08/96	--	1	--	ND	ND	ND	--	--	--
	ug/L	05/29/96	--	1	--	ND	ND	ND	--	--	--
	ug/L	06/06/96	--	1	--	ND	ND	ND	--	--	--
	ug/L	10/24/96	--	1	ND	ND	ND	ND	--	--	--
	ug/L	04/15/97	--	1	ND	ND	ND	ND	--	--	--
	ug/L	10/29/97	--	1	ND	ND	ND	ND	--	--	--
	ug/L	05/14/98	--	1	ND	ND	ND	ND	--	--	--
	ug/L	11/11/98	--	1	ND	ND	ND	ND	--	--	--
	ug/L	06/04/99	--	1	ND	ND	ND	ND	--	--	--
	ug/L	10/29/99	--	1	ND	ND	ND	ND	--	--	--
	ug/L	04/20/00	--	1	ND	ND	ND	ND	--	--	--
	ug/L	11/07/00	--	1	ND	ND	ND	ND	--	--	--
	ug/L	10/16/01	--	1	ND	--	ND	ND	--	--	--
	ug/L	04/24/02	--	1	ND	--	ND	ND	--	--	--
	ug/L	10/01/02	--	1	ND	--	ND	ND	--	--	--
	ug/L	04/09/03	--	1	ND	--	ND	ND	--	--	--
	ug/L	10/20/03	--	1	ND	ND	ND	ND	--	--	--
	ug/L	03/24/04	--	1	ND	ND	ND	ND	--	--	--
	ug/L	10/27/04	--	1	ND	ND	ND	ND	--	--	--
	ug/L	05/25/05	--	1	ND	ND	ND	ND	--	--	--
	ug/L	10/04/05	--	1	ND	ND	ND	ND	--	--	--
	ug/L	04/25/06	--	1	ND	ND	ND	ND	--	--	--
	ug/L	10/04/06	--	1	ND	ND	ND	ND	--	--	ND
	ug/L	03/21/07	--	1	ND	ND	ND	ND	--	--	ND
	ug/L	10/02/07	--	1	ND	0.24 J	ND	ND	--	--	ND
	ug/L	04/03/08	--	1	ND	1.12	ND	ND	--	--	ND
	ug/L	10/29/08	--	1	ND	--	ND	ND	--	--	ND
	ug/L	03/24/09	0.36	1	ND	ND	ND	ND	--	--	ND
	ug/L	09/22/09	0.36	1	ND	0.42 J	ND	ND	--	--	ND
	ug/L	03/22/10	0.099	1	ND	0.62 J	ND	ND	--	--	ND
	ug/L	06/03/10	0.099	1	--	--	--	--	ND	ND	ND
	ug/L	09/23/10	0.36	1	ND	ND	ND	ND	--	--	ND
	ug/L	03/16/11	0.73	1	ND	ND	ND	ND	ND	ND	ND
	ug/L	09/21/11	0.73	1	ND	ND	ND	ND	ND	ND	ND
	ug/L	03/21/12	0.17	1	ND	ND	ND	ND	dry	ND	ND
	ug/L	09/20/12	0.17	1	ND	ND	ND	ND	dry	ND	ND
	ug/L	03/20/13	0.17	1	ND	ND	ND	ND	dry	ND	ND
	ug/L	09/18/13	0.17	1	ND	ND	ND	ND	dry	ND	ND
	ug/L	03/27/14	0.17	1	ND	ND	ND	ND	dry	ND	ND
	ug/L	09/18/14	0.17	1	ND	ND	ND	ND	dry	ND	ND
	ug/L	03/18/15	0.17	1	ND	ND	ND	ND	dry	ND	ND

TABLE 5

Summary of Detected Constituents in Surface Water Monitoring Points
Henderson County Closed MSW Landfill, Permit No. 45-01

Detected Monitoring Constituent/Parameter	Units	Date	MDL	SWS Reporting Limit	BR-1	BR-2	BR-3	SW-1	TSW-1	TSW-2	Blanks
Toluene	ug/L	12/05/94	0.2	1	ND	ND	ND	ND	--	--	--
SW Standard = 11 ug/L	ug/L	02/14/95	--	1	ND	ND	ND	ND	--	--	--
	ug/L	04/03/95	--	1	ND	ND	ND	ND	--	--	--
	ug/L	10/30/95	--	1	ND	ND	ND	ND	--	--	--
	ug/L	04/08/96	--	1	--	ND	ND	ND	--	--	--
	ug/L	05/29/96	--	1	--	ND	ND	ND	--	--	--
	ug/L	06/06/96	--	1	--	ND	ND	ND	--	--	--
	ug/L	10/24/96	--	1	ND	ND	ND	ND	--	--	--
	ug/L	04/15/97	--	1	ND	ND	ND	ND	--	--	--
	ug/L	10/29/97	--	1	ND	ND	ND	ND	--	--	--
	ug/L	05/14/98	--	1	ND	ND	ND	ND	--	--	--
	ug/L	11/11/98	--	1	ND	ND	ND	ND	--	--	--
	ug/L	06/04/99	--	1	ND	ND	ND	ND	--	--	--
	ug/L	10/29/99	--	1	ND	ND	ND	ND	--	--	--
	ug/L	04/20/00	--	1	ND	ND	ND	ND	--	--	--
	ug/L	11/07/00	--	1	ND	ND	ND	ND	--	--	--
	ug/L	10/16/01	--	1	ND	--	ND	ND	--	--	--
	ug/L	04/24/02	--	1	ND	--	ND	ND	--	--	--
	ug/L	10/01/02	--	1	ND	--	ND	ND	--	--	--
	ug/L	04/09/03	--	1	ND	--	ND	ND	--	--	--
	ug/L	10/20/03	--	1	ND	ND	ND	ND	--	--	--
	ug/L	03/24/04	--	1	ND	ND	ND	ND	--	--	--
	ug/L	10/27/04	--	1	ND	ND	ND	ND	--	--	--
	ug/L	05/25/05	--	1	ND	ND	ND	ND	--	--	--
	ug/L	10/04/05	--	1	ND	ND	ND	ND	--	--	--
	ug/L	04/25/06	--	1	ND	ND	ND	ND	--	--	--
	ug/L	10/04/06	--	1	ND	ND	ND	ND	--	--	ND
	ug/L	03/21/07	--	1	ND	0.29 J	ND	ND	--	--	ND
	ug/L	10/02/07	--	1	ND	ND	ND	ND	--	--	ND
	ug/L	04/03/08	--	1	ND	ND	ND	ND	--	--	0.6 J
	ug/L	10/29/08	--	1	ND	--	ND	ND	--	--	ND
	ug/L	03/24/09	0.27	1	ND	ND	ND	ND	--	--	ND
	ug/L	09/22/09	0.27	1	ND	ND	ND	ND	--	--	ND
	ug/L	03/22/10	0.053	1	ND	ND	ND	ND	--	--	ND
	ug/L	06/03/10	0.053	1	--	--	--	--	ND	ND	ND
	ug/L	09/23/10	0.27	1	ND	ND	ND	ND	--	--	ND
	ug/L	03/16/11	0.85	1	ND	ND	ND	ND	3.6	ND	ND
	ug/L	09/21/11	0.85	1	ND	ND	ND	ND	ND	ND	ND
	ug/L	03/21/12	0.14	1	ND	ND	ND	ND	dry	ND	ND
	ug/L	09/20/12	0.14	1	ND	ND	ND	ND	dry	ND	ND
	ug/L	03/20/13	0.14	1	ND	ND	ND	ND	dry	ND	ND
	ug/L	09/18/13	0.14	1	ND	ND	ND	ND	dry	ND	ND
	ug/L	03/27/14	0.14	1	ND	ND	ND	ND	dry	ND	ND
	ug/L	09/18/14	0.14	1	ND	ND	ND	ND	dry	ND	ND
	ug/L	03/18/15	0.14	1	ND	ND	ND	ND	dry	ND	ND
Trichloroethene	ug/L	12/05/94	0.25	1	ND	ND	ND	ND	--	--	--
No SW Standard	ug/L	02/14/95	--	1	ND	ND	ND	ND	--	--	--
	ug/L	04/03/95	--	1	ND	ND	ND	ND	--	--	--
	ug/L	10/30/95	--	1	ND	ND	ND	ND	--	--	--
	ug/L	04/08/96	--	1	--	ND	ND	ND	--	--	--
	ug/L	05/29/96	--	1	--	ND	ND	ND	--	--	--
	ug/L	06/06/96	--	1	--	ND	ND	ND	--	--	--
	ug/L	10/24/96	--	1	ND	ND	ND	ND	--	--	--
	ug/L	04/15/97	--	1	ND	ND	ND	ND	--	--	--
	ug/L	10/29/97	--	1	ND	ND	ND	ND	--	--	--
	ug/L	05/14/98	--	1	ND	ND	ND	ND	--	--	--
	ug/L	11/11/98	--	1	ND	ND	ND	ND	--	--	--
	ug/L	06/04/99	--	1	ND	ND	ND	ND	--	--	--
	ug/L	10/29/99	--	1	ND	ND	ND	ND	--	--	--
	ug/L	04/20/00	--	1	ND	ND	ND	ND	--	--	--
	ug/L	11/07/00	--	1	ND	ND	ND	ND	--	--	--
	ug/L	10/16/01	--	1	ND	--	ND	ND	--	--	--
	ug/L	04/24/02	--	1	ND	--	ND	ND	--	--	--
	ug/L	10/01/02	--	1	ND	--	ND	ND	--	--	--
	ug/L	04/09/03	--	1	ND	--	ND	ND	--	--	--
	ug/L	10/20/03	--	1	ND	ND	ND	ND	--	--	--
	ug/L	03/24/04	--	1	ND	ND	ND	ND	--	--	--
	ug/L	10/27/04	--	1	ND	ND	ND	ND	--	--	--
	ug/L	05/25/05	--	1	ND	ND	ND	ND	--	--	--
	ug/L	10/04/05	--	1	ND	ND	ND	ND	--	--	--
	ug/L	04/25/06	--	1	ND	ND	ND	ND	--	--	--
	ug/L	10/04/06	--	1	ND	ND	ND	ND	--	--	ND
	ug/L	03/21/07	--	1	ND	ND	ND	ND	--	--	ND
	ug/L	10/02/07	--	1	ND	1 J	ND	ND	--	--	ND
	ug/L	04/03/08	--	1	ND	1.23 J	ND	ND	--	--	ND
	ug/L	10/29/08	--	1	ND	--	ND	ND	--	--	ND
	ug/L	03/24/09	0.38	1	ND	ND	ND	ND	--	--	ND
	ug/L	09/22/09	0.38	1	ND	ND	ND	ND	--	--	ND
	ug/L	03/22/10	0.13	1	ND	ND	ND	ND	--	--	ND
	ug/L	06/03/10	0.13	1	--	--	--	--	ND	ND	ND
	ug/L	09/23/10	0.38	1	ND	ND	ND	ND	--	--	ND
	ug/L	03/16/11	0.72	1	ND	ND	ND	ND	ND	ND	ND
	ug/L	09/21/11	0.72	1	ND	ND	ND	ND	ND	ND	ND
	ug/L	03/21/12	0.15	1	ND	ND	ND	ND	dry	ND	ND
	ug/L	09/20/12	0.15	1	ND	ND	ND	ND	dry	ND	ND
	ug/L	03/20/13	0.15	1	ND	ND	ND	ND	dry	ND	ND
	ug/L	09/18/13	0.15	1	ND	ND	ND	ND	dry	ND	ND
	ug/L	03/27/14	0.15	1	ND	ND	ND	ND	dry	ND	ND
	ug/L	09/18/14	0.15	1	ND	ND	ND	ND	dry	ND	ND
	ug/L	03/18/15	0.15	1	ND	ND	ND	ND	dry	ND	ND

TABLE 5

Summary of Detected Constituents in Surface Water Monitoring Points
Henderson County Closed MSW Landfill, Permit No. 45-01

Detected Monitoring Constituent/Parameter	Units	Date	MDL	SWS Reporting Limit	BR-1	BR-2	BR-3	SW-1	TSW-1	TSW-2	Blanks
Vinyl chloride	ug/L	12/05/94	0.3	1	ND	ND	ND	ND	--	--	--
No SW Standard	ug/L	02/14/95	--	1	ND	ND	ND	ND	--	--	--
	ug/L	04/03/95	--	1	ND	ND	ND	ND	--	--	--
	ug/L	10/30/95	--	1	ND	ND	ND	ND	--	--	--
	ug/L	04/08/96	--	1	--	ND	ND	ND	--	--	--
	ug/L	05/29/96	--	1	--	ND	ND	ND	--	--	--
	ug/L	06/06/96	--	1	--	ND	ND	ND	--	--	--
	ug/L	10/24/96	--	1	ND	ND	ND	ND	--	--	--
	ug/L	04/15/97	--	1	ND	ND	ND	ND	--	--	--
	ug/L	10/29/97	--	1	ND	ND	ND	ND	--	--	--
	ug/L	05/14/98	--	1	ND	ND	ND	ND	--	--	--
	ug/L	11/11/98	--	1	ND	ND	ND	ND	--	--	--
	ug/L	06/04/99	--	1	ND	ND	ND	ND	--	--	--
	ug/L	10/29/99	--	1	ND	ND	ND	ND	--	--	--
	ug/L	04/20/00	--	1	ND	ND	ND	ND	--	--	--
	ug/L	11/07/00	--	1	ND	ND	ND	ND	--	--	--
	ug/L	10/16/01	--	1	ND	--	ND	ND	--	--	--
	ug/L	04/24/02	--	1	ND	--	ND	ND	--	--	--
	ug/L	10/01/02	--	1	ND	--	ND	ND	--	--	--
	ug/L	04/09/03	--	1	ND	--	ND	ND	--	--	--
	ug/L	10/20/03	--	1	ND	ND	ND	ND	--	--	--
	ug/L	03/24/04	--	1	ND	ND	ND	ND	--	--	--
	ug/L	10/27/04	--	1	ND	ND	ND	ND	--	--	--
	ug/L	05/25/05	--	1	ND	ND	ND	ND	--	--	--
	ug/L	10/04/05	--	1	ND	ND	ND	ND	--	--	--
	ug/L	04/25/06	--	1	ND	ND	ND	ND	--	--	--
	ug/L	10/04/06	--	1	ND	ND	ND	ND	--	--	ND
	ug/L	03/21/07	--	1	0.52 J	ND	ND	ND	--	--	ND
	ug/L	10/02/07	--	1	ND	0.47 J	ND	ND	--	--	ND
	ug/L	04/03/08	--	1	ND	ND	ND	ND	--	--	ND
	ug/L	10/29/08	--	1	ND	--	ND	ND	--	--	ND
	ug/L	03/24/09	0.30	1	ND	ND	ND	ND	--	--	ND
	ug/L	09/22/09	0.30	1	ND	ND	ND	ND	--	--	ND
	ug/L	03/22/10	0.083	1	ND	ND	ND	ND	--	--	ND
	ug/L	06/03/10	0.083	1	--	--	--	--	ND	ND	ND
	ug/L	09/23/10	0.30	1	ND	ND	ND	ND	--	--	ND
	ug/L	03/16/11	0.60	1	ND	ND	ND	ND	ND	ND	ND
	ug/L	09/21/11	0.60	1	ND	ND	ND	ND	ND	ND	ND
	ug/L	03/21/12	0.32	1	ND	ND	ND	ND	dry	ND	ND
	ug/L	09/20/12	0.32	1	ND	ND	ND	ND	dry	ND	ND
	ug/L	03/20/13	0.32	1	ND	ND	ND	ND	dry	ND	ND
	ug/L	09/18/13	0.32	1	ND	ND	ND	ND	dry	ND	ND
	ug/L	03/27/14	0.32	1	ND	ND	ND	ND	dry	ND	ND
	ug/L	09/18/14	0.32	1	ND	ND	ND	ND	dry	ND	ND
	ug/L	03/18/15	0.32	1	ND	ND	ND	ND	dry	ND	ND
Xylenes (Total)	ug/L	12/05/94	0.4	5	ND	ND	ND	0.04	--	--	--
SW Standard = 670 ug/L	ug/L	02/14/95	--	5	ND	ND	ND	0.071	--	--	--
	ug/L	04/03/95	--	5	ND	ND	ND	0.051	--	--	--
	ug/L	10/30/95	--	5	ND	ND	ND	ND	--	--	--
	ug/L	04/08/96	--	5	--	ND	ND	0.04	--	--	--
	ug/L	05/29/96	--	5	--	ND	ND	--	--	--	--
	ug/L	06/06/96	--	5	--	ND	ND	--	--	--	--
	ug/L	10/24/96	--	5	ND	ND	ND	0.013	--	--	--
	ug/L	04/15/97	--	5	ND	ND	ND	0.03	--	--	--
	ug/L	10/29/97	--	5	ND	ND	ND	ND	--	--	--
	ug/L	05/14/98	--	5	ND	ND	ND	ND	--	--	--
	ug/L	11/11/98	--	5	ND	ND	ND	ND	--	--	--
	ug/L	06/04/99	--	5	ND	ND	ND	ND	--	--	--
	ug/L	10/29/99	--	5	ND	ND	ND	ND	--	--	--
	ug/L	04/20/00	--	5	ND	ND	ND	ND	--	--	--
	ug/L	11/07/00	--	5	ND	ND	ND	ND	--	--	--
	ug/L	10/16/01	--	5	ND	--	ND	ND	--	--	--
	ug/L	04/24/02	--	5	ND	--	ND	ND	--	--	--
	ug/L	10/01/02	--	5	ND	--	ND	ND	--	--	--
	ug/L	04/09/03	--	5	ND	--	ND	0.063	--	--	--
	ug/L	10/20/03	--	5	ND	ND	ND	ND	--	--	--
	ug/L	03/24/04	--	5	ND	ND	ND	ND	--	--	--
	ug/L	10/27/04	--	5	ND	ND	ND	ND	--	--	--
	ug/L	05/25/05	--	5	ND	ND	ND	ND	--	--	--
	ug/L	10/04/05	--	5	ND	ND	ND	ND	--	--	--
	ug/L	04/25/06	--	5	ND	ND	ND	ND	--	--	--
	ug/L	10/04/06	--	5	ND	ND	ND	ND	--	--	ND
	ug/L	03/21/07	--	5	ND	ND	ND	ND	--	--	ND
	ug/L	10/02/07	--	5	ND	0.17 J	ND	ND	--	--	ND
	ug/L	04/03/08	--	5	ND	ND	ND	ND	--	--	ND
	ug/L	10/29/08	--	5	ND	--	ND	ND	--	--	ND
	ug/L	03/24/09	0.40	5	ND	ND	ND	ND	--	--	ND
	ug/L	09/22/09	0.40	5	ND	ND	ND	ND	--	--	ND
	ug/L	03/22/10	0.22	5	ND	ND	ND	ND	--	--	ND
	ug/L	06/03/10	0.22	5	--	--	--	--	ND	ND	ND
	ug/L	09/23/10	0.40	5	ND	ND	ND	ND	--	--	ND
	ug/L	03/16/11	2.1	5	ND	ND	ND	ND	ND	ND	ND
	ug/L	09/21/11	2.1	5	ND	ND	ND	ND	ND	ND	ND
	ug/L	03/21/12	0.45	5	ND	ND	ND	ND	dry	ND	ND
	ug/L	09/20/12	0.45	5	ND	ND	ND	ND	dry	ND	ND
	ug/L	03/20/13	0.45	5	ND	ND	ND	ND	dry	ND	ND
	ug/L	09/18/13	0.45	5	ND	ND	ND	ND	dry	ND	ND
	ug/L	03/27/14	0.45	5	ND	ND	ND	ND	dry	ND	ND
	ug/L	09/18/14	0.45	5	ND	ND	ND	ND	dry	ND	ND
	ug/L	03/18/15	0.45	5	ND	ND	ND	ND	dry	ND	ND

TABLE 5

Summary of Detected Constituents in Surface Water Monitoring Points
Henderson County Closed MSW Landfill, Permit No. 45-01

Notes:

mg/L = milligrams per liter
ug/L = micrograms per liter
ND = Not detected at the stated reporting limit
uS/cm = microsiemens per centimeter
J = Estimated concentration
B = Blank-qualified result
-- = no data available
dry = there was no discernible flow and a sample was not collected.
SW Standard = Surface Water Standard based on Freshwater Aquatic Life Classification
1) Surface Water Standards based on Fresh Water Aquatic Life Classification
MDL = laboratory method detection limit
Blanks = field, trip and method blanks
Bold = concentrations above the SW Standards have been bolded
SWS Reporting Limit = NCPQL or lab-specific reporting limit prior to October 2007 and NCSWSL starting in October 2007
= EPA Action Level
* = EPA Secondary MCL
1) Historical data prior to March 2009 provided by Henderson County and CDM.
2) TSW-1 and TSW-2 were added as temporary monitoring points during the March 2011 event.

TABLE 6

Summary of Field Parameters for Surface Water Monitoring Points
Henderson County Closed MSW Landfill, Permit No. 45-01

Detected Monitoring Constituent/Parameter	Units	Date	BR-1	BR-2	BR-3	SW-1	TSW-1	TSW-2
pH (field)	S.U.	10/05/06	5.90	6.62	6.74	6.80	--	--
	S.U.	10/02/07	6.35	6.37	6.25	7.20	--	--
	S.U.	04/01/08	6.61	6.41	6.35	7.32	--	--
	S.U.	03/24/09	7.48	7.83	7.50	7.84	--	--
	S.U.	09/22/09	6.94	6.81	7.06	7.01	--	--
	S.U.	03/22/10	6.29	6.32	6.34	6.75	--	--
	S.U.	06/03/10	--	--	--	--	7.21	6.33
	S.U.	09/23/10	7.27	7.17	6.55	7.44	--	--
	S.U.	03/16/11	7.16	6.42	6.48	6.65	7.47	6.85
	S.U.	09/21/11	6.95	7.51	6.65	7.41	7.12	7.02
	S.U.	03/21/12	6.62	6.67	6.32	6.93	dry	6.46
	S.U.	09/20/12	7.18	5.24	7.69	7.75	dry	6.96
	S.U.	03/20/13	6.61	7.06	6.45	6.89	dry	6.53
	S.U.	09/18/13	7.23	7.17	6.83	7.18	dry	6.82
	S.U.	03/26/14	6.84	7.17	6.58	7.32	dry	7.07
	S.U.	09/18/14	7.57	6.54	6.85	6.31	dry	6.24
	S.U.	03/18/15	6.86	7.16	6.88	7.52	dry	6.69
Conductivity (field)	uS/cm	10/05/06	530	765	1512	184	--	--
	uS/cm	10/02/07	498	1029	3037	321	--	--
	uS/cm	04/01/08	400	932	2355	400	--	--
	uS/cm	03/24/09	620	810	3230	360	--	--
	uS/cm	09/22/09	388	845	1328	338	--	--
	uS/cm	03/22/10	343	783	403	317	--	--
	uS/cm	06/03/10	--	--	--	--	779	599
	uS/cm	09/23/10	506	1217	2605	343	--	--
	uS/cm	03/16/11	357	715	2341	354	284	1713
	uS/cm	09/21/11	484	863	2149	326	574	3175
	uS/cm	03/21/12	347	1025	2466	250	dry	2951
	uS/cm	09/20/12	418	1017	3162	269	dry	430
	uS/cm	03/20/13	171	456	1567	177	dry	1919
	uS/cm	09/18/13	356	738	1782	307	dry	3190
	uS/cm	03/26/14	339	685	2688	342	dry	2784
	uS/cm	09/18/14	401	691	2212	345	dry	3039
	uS/cm	03/18/15	323	366	2766	297	dry	2516
Temperature (field)	Celsius	10/05/06	15.7	16.0	15.9	17.0	--	--
	Celsius	10/02/07	13.6	14.9	15.3	14.9	--	--
	Celsius	04/01/08	15.9	10.7	10.7	15.9	--	--
	Celsius	03/24/09	13.4	14.8	8.2	14.4	--	--
	Celsius	09/22/09	20.54	18.56	19.52	19.20	--	--
	Celsius	03/22/10	6.79	8.12	7.74	7.76	--	--
	Celsius	06/03/10	--	--	--	--	29.51	17.45
	Celsius	09/23/10	20.05	18.13	19.60	19.38	--	--
	Celsius	03/16/11	8.13	11.22	11.32	7.06	17.76	11.62
	Celsius	09/21/11	16.71	20.10	18.13	16.55	19.50	15.48
	Celsius	03/21/12	13.40	16.98	17.67	14.38	dry	17.50
	Celsius	09/20/12	15.70	17.80	16.07	16.27	dry	15.94
	Celsius	03/20/13	2.39	10.28	7.76	7.72	dry	5.53
	Celsius	09/18/13	16.0	17.7	17.3	16.9	dry	15.7
	Celsius	03/26/14	10.6	6.9	10.7	3.9	dry	9.4
	Celsius	09/18/14	17.8	17.3	17.9	16.6	dry	17.1
	Celsius	03/15/15	12.7	13.0	14.0	8.97	dry	9.55
Turbidity (field)	NTU	03/24/09	34.2	12.7	3.02	6.58	--	--
	NTU	09/22/09	69.3	29.7	24.9	9.06	--	--
	NTU	03/22/10	29.6	12.6	10	23	--	--
	NTU	06/03/10	--	--	--	--	260	17.1
	NTU	09/23/10	54.2	6.72	11.3	3.51	--	--
	NTU	03/16/11	74.6	8.59	23.6	20.7	50.8	6.27
	NTU	09/21/11	66.4	215	42.8	35.9	19.5	23.6
	NTU	03/21/12	27.7	97.4	17.0	11.4	dry	10.7
	NTU	09/20/12	67.0	30.2	12.5	67.0	dry	56.9
	NTU	03/20/13	40.7	19.1	10.1	9.60	dry	4.31
	NTU	09/18/13	23.4	24.9	14.3	16.9	dry	15.0
	NTU	03/26/14	24.9	6.90	14.7	9.87	dry	6.35
	NTU	09/18/14	2.32	4.95	1.46	2.84	dry	3.27
	NTU	03/18/15	10.4	6.35	3.19	11.1	dry	7.45
Oxidation Reduction Potential (field)	mV	09/22/09	-27.9	-51.1	-35.1	26.6	--	--
	mV	03/22/10	-9.7	-45.7	47.1	-29.0	--	--
	mV	06/03/10	--	--	--	--	-73.7	3.0
	mV	09/23/10	-27.2	-134.9	-2.0	30.2	--	--
	mV	03/16/11	15.1	31.4	1.3	-1.6	106.2	-6.5
	mV	09/21/11	-34.1	-25.4	-18.9	-41.0	9.3	-24.9
	mV	03/21/12	15.4	-51.4	11.0	7.71	dry	70.0
	mV	09/20/12	-180.3	1.0	-136.6	-129.5	dry	-124.9
	mV	03/20/13	1.5	-42.3	9.7	-1.7	dry	30.1
	mV	09/18/13	14.2	-31.0	60.7	90.6	dry	41.7
	mV	03/26/14	-105.6	-120.6	-80.5	-75.0	dry	-86.1
	mV	09/18/14	86.8	66.5	45.0	179.9	dry	26.7
	mV	03/18/15	26.8	-40.9	7.0	76.0	dry	53.4
Dissolved Oxygen (field)	mg/L	09/22/09	4.00	4.20	4.33	5.02	--	--
	mg/L	03/22/10	10.99	9.49	9.03	10.47	--	--
	mg/L	06/03/10	--	--	--	--	--	--
	mg/L	09/23/10	6.87	24.0	6.36	6.28	--	--
	mg/L	03/16/11	14.68	13.44	8.76	10.47	18.12	8.29
	mg/L	09/21/11	7.42	6.32	6.90	8.74	6.61	7.64
	mg/L	03/21/12	8.37	6.04	7.23	13.9	dry	7.05
	mg/L	09/20/12	5.53	12.35	6.67	7.13	dry	6.47
	mg/L	03/20/13	--	--	--	--	dry	--
	mg/L	09/18/13	8.19	5.36	6.09	5.86	dry	5.06
	mg/L	03/26/14	10.75	8.64	9.54	9.33	dry	8.07
	mg/L	09/18/14	6.17	5.45	6.38	6.12	dry	6.66
	mg/L	03/18/15	11.15	9.01	8.17	10.03	dry	8.71

Notes:

mg/L = milligrams per liter
S.U. = Standard Units
NTU = Nephelometric Turbidity Units
uS/cm = microsiemens per centimeter
mV = Millivolts
-- = no data available
dry = there was no discernible flow and a sample was not collected.
1) Historical data prior to March 2009 provided by Henderson County and CDM.
2) TSW-1 and TSW-2 were added as temporary monitoring points during the March 2011 event.

TABLE 7

Summary of Detected Constituents in MSW Monitoring Wells
Henderson County Closed MSW Landfill, Permit No. 45-01

Detected Monitoring Constituent/Parameter	Units	Date	MDL	SWS Reporting Limit	Upgradient Compliance Well	Downgradient Compliance Wells			Assessment Wells				Non-Compliance Wells				TVA Well	Blanks
					MW-5	MW-6	MW-7	MW-8	AMW-1S	AMW-1D	AMW-2S	AMW-2D	Old MW-1	MW-1	Old MW-2	MW-2	MW-9	
Antimony	ug/L	12/05/94	--	6	ND	ND	ND	ND	--	--	--	--	--	--	--	--	ND	--
SWS GPS = 1 ug/L	ug/L	02/14/95	--	6	ND	ND	ND	ND	--	--	--	--	--	--	--	--	ND	--
EPA MCL = 6 ug/L	ug/L	04/03/95	--	6	ND	ND	ND	ND	--	--	--	--	--	--	--	--	ND	--
	ug/L	10/30/95	--	6	ND	ND	ND	ND	--	--	--	--	--	--	--	--	ND	--
	ug/L	04/08/96	--	6	ND	ND	ND	ND	--	--	--	--	--	--	--	--	ND	--
	ug/L	10/24/96	--	6	ND	--	ND	ND	--	--	--	--	--	--	--	--	ND	--
	ug/L	04/15/97	--	6	ND	--	ND	ND	--	--	--	--	--	--	--	--	ND	--
	ug/L	10/29/97	--	6	ND	ND	**3**	ND	--	--	--	--	--	--	--	--	ND	--
	ug/L	05/14/98	--	6	ND	ND	ND	ND	--	--	--	--	--	--	--	--	ND	--
	ug/L	10/11/98	--	6	ND	ND	ND	ND	--	--	--	--	--	--	--	--	ND	--
	ug/L	06/04/99	--	6	ND	ND	ND	ND	--	--	--	--	--	--	--	--	ND	--
	ug/L	10/29/99	--	6	ND	ND	ND	ND	--	--	--	--	--	--	--	--	ND	--
	ug/L	04/20/00	--	6	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	ND	--
	ug/L	11/07/00	--	6	ND	ND	ND	ND	--	--	--	--	--	--	--	--	ND	--
	ug/L	02/27/01	--	6	--	--	--	--	--	--	--	--	ND	ND	ND	ND	--	--
	ug/L	05/15/01	--	6	ND	ND	ND	ND	--	--	--	--	--	--	--	--	ND	--
	ug/L	10/16/01	--	6	ND	ND	ND	ND	--	ND	--	--	--	--	--	--	ND	--
	ug/L	04/24/02	--	6	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	ND	--
	ug/L	10/01/02	--	6	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	ND	--
	ug/L	04/09/03	--	6	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	ND	--
	ug/L	10/20/03	--	6	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	ND	--
	ug/L	03/24/04	--	6	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	ND	--
	ug/L	10/27/04	--	6	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	ND	--
	ug/L	05/25/05	--	6	ND	ND	ND	--	ND	ND	--	--	--	--	--	--	ND	--
	ug/L	10/04/05	--	6	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	ND	--
	ug/L	04/25/06	--	6	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	ND	--
	ug/L	10/04/06	--	6	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	ND	ND
	ug/L	03/21/07	--	6	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	0.91 J	ND
	ug/L	10/02/07	--	6	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	ND	ND
	ug/L	04/03/08	--	6	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	ug/L	10/29/08	--	6	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	ND	ND
	ug/L	03/24/09	0.68	6	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	ND	ND
	ug/L	09/22/09	0.0730	6	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.167 J	--	--	ND
	ug/L	03/22/10	0.220	6	ND	Dry	ND	0.441 J	ND	ND	ND	ND	--	--	--	ND	--	ND
	ug/L	09/23/10	0.220	6	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	--	ND
	ug/L	03/16/11	0.220	6	0.226 J	ND	0.286 J	ND	0.460 J	0.382 J	ND	0.365 J	--	--	--	--	--	ND
	ug/L	09/21/11	0.220	6	ND	0.478 J	0.408 J	0.287 J	ND	ND	ND	ND	--	--	--	--	--	ND
	ug/L	03/21/12	0.220	6	0.320 J	ND	ND	0.906 J	ND	0.236 J	ND	ND	--	--	--	--	ND	ND
	ug/L	09/20/12	0.220	6	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	--	ND
	ug/L	03/20/13	0.220	6	ND	ND	ND	0.621 J	ND	ND	ND	ND	--	--	--	--	ND	ND
	ug/L	09/18/13	0.220	6	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	--	ND
	ug/L	03/27/14	0.220	6	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	ND	ND
	ug/L	09/18/14	0.220	6	0.319 J	0.275 J	0.874 J	ND	ND	ND	ND	ND	--	--	--	--	--	ND
	ug/L	03/18/15	0.220	6	ND	ND	ND	0.661 J	ND	ND	ND	ND	--	--	--	--	ND	ND
Arsenic	ug/L	12/05/94	--	10	ND	ND	ND	ND	--	--	--	--	--	--	--	--	ND	--
NC 2L = 10 ug/L	ug/L	02/14/95	--	10	ND	ND	ND	ND	--	--	--	--	--	--	--	--	ND	--
EPA MCL = 10 ug/L	ug/L	04/03/95	--	10	ND	ND	ND	ND	--	--	--	--	--	--	--	--	ND	--
	ug/L	10/30/95	--	10	ND	ND	ND	ND	--	--	--	--	--	--	--	--	ND	--
	ug/L	04/08/96	--	10	ND	ND	ND	ND	--	--	--	--	--	--	--	--	ND	--
	ug/L	10/24/96	--	10	ND	--	ND	ND	--	--	--	--	--	--	--	--	ND	--
	ug/L	04/15/97	--	10	ND	--	ND	ND	--	--	--	--	--	--	--	--	ND	--
	ug/L	10/29/97	--	10	ND	ND	ND	ND	--	--	--	--	--	--	--	--	ND	--
	ug/L	05/14/98	--	10	ND	ND	ND	ND	--	--	--	--	--	--	--	--	ND	--
	ug/L	10/11/98	--	10	ND	ND	ND	ND	--	--	--	--	--	--	--	--	ND	--
	ug/L	06/04/99	--	10	ND	ND	ND	ND	--	--	--	--	--	--	--	--	ND	--
	ug/L	10/29/99	--	10	ND	ND	ND	ND	--	--	--	--	--	--	--	--	ND	--
	ug/L	04/20/00	--	10	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	ND	--
	ug/L	11/07/00	--	10	ND	ND	ND	ND	--	--	--	--	--	--	--	--	ND	--
	ug/L	02/27/01	--	10	--	--	--	--	--	--	--	--	ND	ND	ND	ND	--	--
	ug/L	05/15/01	--	10	ND	ND	ND	ND	--	--	--	--	--	--	--	--	ND	--
	ug/L	10/16/01	--	10	ND	ND	ND	ND	--	ND	--	--	--	--	--	--	ND	--
	ug/L	04/24/02	--	10	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	ND	--
	ug/L	10/01/02	--	10	ND	ND	ND	ND	**10.1**	ND	--	--	--	--	--	--	ND	--
	ug/L	04/09/03	--	10	ND	ND	ND	ND	ND	**11.1**	--	--	--	--	--	--	ND	--
	ug/L	10/20/03	--	10	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	ND	--
	ug/L	03/24/04	--	10	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	ND	--
	ug/L	10/27/04	--	10	ND	**14.7**	ND	**21.3**	ND	ND	--	--	--	--	--	--	ND	--
	ug/L	05/25/05	--	10	ND	ND	ND	--	ND	ND	--	--	--	--	--	--	ND	--
	ug/L	10/04/05	--	10	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	ND	--
	ug/L	04/25/06	--	10	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	ND	--
	ug/L	10/04/06	--	10	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	ND	ND
	ug/L	03/21/07	--	10	ND	0.84 J	0.94 J	0.46 J	1.13 J	ND	--	--	--	--	--	--	ND	ND
	ug/L	10/02/07	--	10	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	ND	ND
	ug/L	04/03/08	--	10	2.07 J	2.45 J	3.04 J	5.07 J	ND	ND	3.64 J	**10.5**	1.89 J	3.29 J	ND	--	ND	ND
	ug/L	10/29/08	--	10	ND	**13.9**	7.18 J	ND	ND	5.98 J	5.38 J	2.96 J	--	--	--	--	ND	ND
	ug/L	03/24/09	2.8	10	ND	ND	ND	3.1 J	ND	ND	ND	ND	--	--	--	--	ND	ND
	ug/L	09/22/09	2.80	10	ND	5.40 B	7.18 B	ND	ND	ND	ND	ND	6.13 B	6.66 B	6.02 B	--	--	2.90 J
	ug/L	03/22/10	2.80	10	ND	Dry	ND	ND	ND	ND	ND	ND	--	--	--	ND	--	ND
	ug/L	09/23/10	2.80	10	ND	5.27 J	ND	4.58 J	ND	ND	ND	ND	--	--	--	--	--	ND
	ug/L	03/16/11	2.80	10	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	--	ND
	ug/L	09/21/11	2.80	10	ND	ND	5.48 J	6.93 J	ND	ND	4.29 J	3.03 J	--	--	--	--	--	ND
	ug/L	03/21/12	2.80	10	3.80 J	ND	ND	ND	ND	ND	ND	4.00 J	--	--	--	--	ND	ND
	ug/L	09/20/12	2.80	10	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	--	3.27 J
	ug/L	03/20/13	2.80	10	ND	ND	ND	ND	ND	ND	ND	3.04 J	--	--	--	--	ND	ND
	ug/L	09/18/13	5.40	10	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	--	ND
	ug/L	03/27/14	5.40	10	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	ND	ND
	ug/L	09/18/14	5.40	10	ND	ND	ND	ND	5.51 J	ND	ND	ND	--	--	--	--	--	ND
	ug/L	03/18/15	5.40	10	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	ND	ND
Barium	ug/L	12/05/94	--	100	134	237	378	528	--	--	--	--	--	--	--	--	207	--
NC 2L = 700 ug/L	ug/L	02/14/95	--	100	ND	416	439	601	--	--	--	--	--	--	--	--	205	--
EPA MCL = 2000 ug/L	ug/L	04/03/95	--	100	174	493	350	**786**	--	--	--	--	--	--	--	--	197	--
	ug/L	10/30/95	--	100	348	539	230	**835**	--	--	--	--	--	--	--	--	358	--
	ug/L	04/08/96	--	100	199	332	264	**790**	--	--	--	--	--	--	--	--	140	--
	ug/L	10/24/96	--	100	300	--	338	**925**	--	--	--	--	--	--	--	--	285	--
	ug/L	04/15/97	--	100	180	--	300	**810**	--	--	--	--	--	--	--	--	360	--
	ug/L	10/29/97	--	100	200	700	500	700	--	--	--	--	--	--	--	--	100	--
	ug/L	05/14/98	--	100	ND	ND	ND	628	--	--	--	--	--	--	--	--	ND	--
	ug/L	10/11/98	--	100	ND	ND	ND	ND	--	--	--	--	--	--	--	--	ND	--
	ug/L	06/04/99	--	100	ND	ND	ND	552	--	--	--	--	--	--	--	--	ND	--
	ug/L	10/29/99	--	100	ND	ND	ND	ND	--	--	--	--	--	--	--	--	ND	--
	ug/L	04/20/00	--	100	ND	ND	ND	ND	258	--	--	--	--	--	--	--	ND	--
	ug/L	11/07/00	--	100	ND	ND	ND	ND	--	--	--	--	--	--	--	--	ND	--
	ug/L	02/27/01	--	100	--	--	--	--	--	--	--	--	ND	ND	ND	ND	--	--
	ug/L	05/15/01	--	100	ND	ND	ND	604	--	--	--	--	--	--	--	--	ND	--
	ug/L	10/16/01	--	100	ND	178	116	298	--	ND	--	--	--	--	--	--	ND	--
	ug/L	04/24/02	--	100	ND	ND	ND	642	ND	ND	--	--	--	--	--	--	ND	--
	ug/L	10/01/02	--	100	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	ND	--
	ug/L	04/09/03	--	100	ND	ND	ND	522	ND	ND	--	--	--	--	--	--	ND	--
	ug/L	10/20/03	--	100	ND	ND	ND	**720**	ND	ND	--	--	--	--	--	--	ND	--
	ug/L	03/24/04	--	100	ND	ND	ND	**829**	ND	ND	--	--	--	--	--	--	ND	--
	ug/L	10/27/04	--	100	ND	530	ND	**866**	ND	ND	--	--	--	--	--	--	ND	--
	ug/L	05/25/05	--	100	ND	ND	ND	--	ND	ND	--	--	--	--	--	--	ND	--
	ug/L	10/04/05	--	100	ND	ND	ND	**982**	ND	ND	--	--	--	--	--	--	ND	--
	ug/L	04/25/06	--	100	ND	687	ND	**822**	ND	ND	--	--	--	--	--	--	ND	--
	ug/L	10/04/06	--	100	ND	562	ND	**920**	ND	ND	--	--	--	--	--	--	ND	ND
	ug/L	03/21/07	--	100	47.5 J	136	294	**992**	306	27.2 J	--	--	--	--	--	--	49.9 J	ND
	ug/L	10/02/07	--	100	135	904	198	695	563	37.4 B	--	--	--	--	--	--	54.3 B	16.1 J
	ug/L	04/03/08	--	100	87.8 J	86.8 J	144	**714**	476	20.3 B	44.3 B	39.4 B	91.2 J	16.5 B	74.8 J	--	65.9 J	10.1 J
	ug/L	10/29/08	--	100	69.9 J	**795**	227	429	**930**	28.2	24.9 J	19.4 J	--	--	--	--	62.1 J	ND
	ug/L	03/24/09	4.20	100	26.2 J	54.5 J	203	517	221	19.0 J	15.4 J	ND	--	--	--	--	56.7 J	ND
	ug/L	09/22/09	1.00	100	31.5 J	48.9 J	259	**916**	323	11.7 J	19.1 J	5.46 J	81.8 J	15.8 J	70.7 J	--	--	ND
	ug/L	03/22/10	1.00	100	28.2 J	Dry	268	693	79.9 J	23.1 J	9.57 J	4.16 B	--	--	--	46.3 J	--	1.54 J
	ug/L	09/23/10	1.00	100	34.3 J	335	302	**1130**	86.5 J	13.1 J	7.69 J	1.79 J	--	--	--	--	--	ND
	ug/L	03/16/11	1.00	100	71.3 J	39.4 J	417	414	216	8.14 J	85.4 J	2.71 J	--	--	--	--	--	ND
	ug/L	09/21/11	1.00	100	40.2 J	482	453	**1370**	214	12.2 J	14.0 J	2.07 J	--	--	--	--	--	ND
	ug/L	03/21/12	1.00	100	60.8 J	315	481	**1070**	412	14.5 J	7.28 J	1.64 J	--	--	--	--	180	ND
	ug/L	09/20/12	1.00	100	28.9 J	58.9 J	464	454	390	12.2 J	12.9 J	2.15 J	--	--	--	--	--	ND
	ug/L	03/20/13	1.00	100	51.9 J	33.4 J	518	**957**	342	10.4 J	8.94 J	1.74 B	--	--	--	--	192	1.34 J
	ug/L	09/18/13	1.00	100	57.7 J	218	590	**787**	400	11.3 J	26.6 J	2.75 B	--	--	--	--	--	1.08 J
	ug/L	03/27/14	1.00	100	42.5 J	43.3 J	514	**988**	239	21.5 J	10.4 J	2.58 J	--	--	--	--	217	ND
	ug/L	09/18/14	1.00	100	31.2 J	482	453	**1050**	306	16.5 J	5.60 B	2.15 B	--	--	--	--	--	1.96 J
	ug/L	03/18/15	1.00	100	42.3 J	27.4 J	535	**710**	538	11.0 J	11.7 J	2.26 J	--	--	--	--	226	ND
Beryllium	ug/L	12/05/94	--	1	ND	ND	3	**7**	--	--	--	--	--	--	--	--	ND	--
SWS GPS = 4 ug/L	ug/L	02/14/95	--	1	ND	ND	4	**5**	--	--	--	--	--	--	--	--	ND	--
EPA MCL = 4 ug/L	ug/L	04/03/95	--	1	ND	2	3	**9**	--	--	--	--	--	--	--	--	ND	--
	ug/L	10/30/95	--	1	ND	ND	ND	**5**	--	--	--	--	--	--	--	--	ND	--
	ug/L	04/08/96	--	1	ND	ND	ND	4	--	--	--	--	--	--	--	--	ND	--
	ug/L	10/24/96	--	1	ND	--	ND	4	--	--	--	--	--	--	--	--	ND	--
	ug/L	04/15/97	--	1	ND	--	ND	**8**	--	--	--	--	--	--	--	--	ND	--
	ug/L	10/29/97	--	1	ND	3	3	**14**	--	--	--	--	--	--	--	--	1	--
	ug/L	05/14/98	--	1	ND	ND	ND	ND	--	--	--	--	--	--	--	--	ND	--
	ug/L	10/11/98	--	1	ND	ND	ND	ND	--	--	--	--	--	--	--	--	ND	--
	ug/L	06/04/99	--	1	ND	ND	ND	2.4	--	--	--	--	--	--	--	--	ND	--
	ug/L	10/29/99	--	1	ND	ND	ND	ND	--	--	--	--	--	--	--	--	ND	--
	ug/L	04/20/00	--	1	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	ND	--
	ug/L	11/07/00	--	1	ND	ND	ND	ND	--	--	--	--	--	--	--	--	ND	--
	ug/L	02/27/01	--	1	--	--	--	--	--	--	--	--	ND	ND	ND	ND	--	--
	ug/L	05/15/01	--	1	ND	ND	ND	ND	--	--	--	--	--	--	--	--	ND	--
	ug/L	10/16/01	--	1	ND	ND	ND	ND	--	ND	--	--	--	--	--	--	ND	--
	ug/L	04/24/02	--	1	**4.2**	ND	ND	ND	ND	ND	--	--	--	--	--	--	ND	--
	ug/L	10/01/02	--	1	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	ND	--
	ug/L	04/09/03	--	1	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	ND	--
	ug/L	10/20/03	--	1	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	ND	--
	ug/L	03/24/04	--	1	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	ND	--
	ug/L	10/27/04	--	1	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	ND	--
	ug/L	05/25/05	--	1	ND	ND	ND	--	ND	ND	--	--	--	--	--	--	ND	--
	ug/L	10/04/05	--	1	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	ND	--
	ug/L	04/25/06	--	1	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	ND	--
	ug/L	10/04/06	--	1	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	ND	ND
	ug/L	03/21/07	--	1	ND	ND	ND	1.06 J	**5.1 J**	ND	--	--	--	--	--	--	ND	ND
	ug/L	10/02/07	--	1	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	22.8 B	6.01
	ug/L	04/03/08	--	1	1.07	2.8	**6.28**	ND	**5.41**	3.2	ND	2.33	1.46 B	8.02 B	1.07 B	--	1.54	ND
	ug/L	10/29/08	--	1	**4.60**	**5.96**	2.23	**10.2**	**10.7**	**5.45**	**10.7**	2.23	--	--	--	--	**11.2**	ND
	ug/L	03/24/09	0.08	1	0.35 J	0.20 J	0.82 J	3.02	1.30	ND	0.18 J	ND	--	--	--	--	0.35 J	ND
	ug/L	09/22/09	0.100	1	0.438 J	0.299 J	0.771 J	1.26	0.438 J	ND	0.470 J	ND	ND	0.163 J	0.466 J	--	--	ND
	ug/L	03/22/10	0.100	1	ND	Dry	0.635 J	ND	0.631 J	ND	ND	0.247 J	--	--	--	0.214 J	--	ND
	ug/L	09/23/10	0.100	1	0.198 J	ND	0.570 J	ND	0.492 J	ND	ND	ND	--	--	--	--	--	ND
	ug/L	03/16/11	0.100	1	0.208 J	ND	0.422 J	ND	1.06	ND	1.80	ND	--	--	--	--	--	ND
	ug/L	09/21/11	0.100	1	ND	0.183 J	0.707 J	1.13	1.37	ND	0.138 J	ND	--	--	--	--	--	ND
	ug/L	03/21/12	0.100	1	0.222 J	ND	0.260 J	0.189 J	1.96	ND	ND	ND	--	--	--	--	1.37	ND
	ug/L	09/20/12	0.100	1	ND	ND	0.298 J	0.443 J	1.68	ND	ND	ND	--	--	--	--	--	ND
	ug/L	03/20/13	0.100	1	ND	ND	0.258 J	0.327 J	0.420 J	ND	ND	ND	--	--	--	--	1.68	ND
	ug/L	09/18/13	0.100	1	ND	ND	0.105 J	ND	0.484 J	ND	0.331 J	ND	--	--	--	--	--	ND
	ug/L	03/27/14	0.100	1	ND	ND	0.199 J	ND	0.556 J	ND	ND	ND	--	--	--	--	2.19	ND
	ug/L	09/18/14	0.100	1	0.106 J	ND	0.295 J	ND	1.07	ND	ND	ND	--	--	--	--	--	ND
	ug/L	03/18/15	0.100	1	0.125 J	ND	0.514 J	0.344 J	0.992 J	ND	ND	ND	--	--	--	--	1.54	ND

TABLE 7

Summary of Detected Constituents in MSW Monitoring Wells
Henderson County Closed MSW Landfill, Permit No. 45-01

Detected Monitoring Constituent/Parameter	Units	Date	MDL	SWS Reporting Limit	Upgradient Compliance Well	Downgradient Compliance Wells			Assessment Wells				Non-Compliance Wells				TVA Well	Blanks
					MW-5	MW-6	MW-7	MW-8	AMW-1S	AMW-1D	AMW-2S	AMW-2D	Old MW-1	MW-1	Old MW-2	MW-2	MW-9	
Cadmium	ug/L	12/05/94	--	1	ND	ND	22	ND	--	--	--	--	--	--	--	--	ND	--
NC 2L = 2 ug/L	ug/L	02/14/95	--	1	ND	ND	3	ND	--	--	--	--	--	--	--	--	ND	--
EPA MCL = 5 ug/L	ug/L	04/03/95	--	1	ND	ND	1	ND	--	--	--	--	--	--	--	--	ND	--
	ug/L	10/30/95	--	1	ND	ND	ND	ND	--	--	--	--	--	--	--	--	ND	--
	ug/L	04/08/96	--	1	ND	ND	ND	ND	--	--	--	--	--	--	--	--	ND	--
	ug/L	10/24/96	--	1	ND	--	ND	ND	--	--	--	--	--	--	--	--	ND	--
	ug/L	04/15/97	--	1	ND	--	ND	ND	--	--	--	--	--	--	--	--	ND	--
	ug/L	10/29/97	--	1	ND	9	ND	ND	--	--	--	--	--	--	--	--	ND	--
	ug/L	05/14/98	--	1	ND	ND	ND	ND	--	--	--	--	--	--	--	--	ND	--
	ug/L	10/11/98	--	1	ND	ND	ND	ND	--	--	--	--	--	--	--	--	ND	--
	ug/L	06/04/99	--	1	ND	5.6	ND	ND	--	--	--	--	--	--	--	--	ND	--
	ug/L	10/29/99	--	1	ND	1.2	ND	ND	--	--	--	--	--	--	--	--	ND	--
	ug/L	04/20/00	--	1	ND	2.3	1.7	ND	ND	--	--	--	--	--	--	--	ND	--
	ug/L	11/07/00	--	1	ND	15	ND	ND	--	--	--	--	--	--	--	--	ND	--
	ug/L	02/27/01	--	1	--	--	--	--	--	--	--	--	ND	ND	ND	ND	--	--
	ug/L	05/15/01	--	1	ND	3.2	ND	ND	--	--	--	--	--	--	--	--	ND	--
	ug/L	10/16/01	--	1	ND	2	--	ND	--	ND	--	--	--	--	--	--	ND	--
	ug/L	04/24/02	--	1	ND	2	ND	ND	ND	ND	--	--	--	--	--	--	ND	--
	ug/L	10/01/02	--	1	ND	2	ND	ND	ND	ND	--	--	--	--	--	--	ND	--
	ug/L	04/09/03	--	1	ND	1.35	ND	ND	ND	ND	--	--	--	--	--	--	ND	--
	ug/L	10/20/03	--	1	ND	3.34	ND	ND	ND	ND	--	--	--	--	--	--	ND	--
	ug/L	03/24/04	--	1	ND	11.6	ND	ND	ND	ND	--	--	--	--	--	--	ND	--
	ug/L	10/27/04	--	1	ND	1.31	1.28	1.08	1	ND	--	--	--	--	--	--	ND	--
	ug/L	05/25/05	--	1	ND	1.9	1.02	--	ND	ND	--	--	--	--	--	--	ND	--
	ug/L	10/04/05	--	1	ND	ND	1.39	ND	2.57	ND	--	--	--	--	--	--	ND	--
	ug/L	04/25/06	--	1	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	ND	--
	ug/L	10/04/06	--	1	ND	1.73 J	1.27	ND	ND	ND	--	--	--	--	--	--	ND	ND
	ug/L	03/21/07	--	1	1.57 J	0.65 J	2.35 J	2.08 J	2.5 J	1.38 J	--	--	--	--	--	--	1.4 J	ND
	ug/L	10/02/07	--	1	ND	ND	1.63	0.4 J	ND	ND	--	--	--	--	--	--	ND	ND
	ug/L	04/03/08	--	1	ND	0.2 J	0.9 J	0.47 J	0.29 J	ND	ND	ND	ND	ND	0.18 J	--	ND	ND
	ug/L	10/29/08	--	1	ND	3.09	0.43 J	0.2 J	ND	ND	ND	ND	--	--	--	--	ND	ND
	ug/L	03/24/09	0.09	1	ND	0.22 J	0.18 J	1.06	0.61 J	ND	ND	ND	--	--	--	--	ND	ND
	ug/L	09/22/09	0.360	1	0.667 J	ND	0.659 J	0.627 J	ND	ND	1.24	ND	ND	ND	ND	--	--	ND
	ug/L	03/22/10	0.360	1	ND	Dry	ND	ND	ND	ND	ND	ND	--	--	--	ND	--	ND
	ug/L	09/23/10	0.360	1	ND	ND	0.493 J	0.618 J	0.416 J	ND	ND	ND	--	--	--	--	--	ND
	ug/L	03/16/11	0.360	1	ND	0.517 J	ND	ND	1.07	ND	ND	ND	--	--	--	--	--	ND
	ug/L	09/21/11	0.360	1	ND	ND	0.666 J	0.441 J	0.841 J	ND	ND	ND	--	--	--	--	--	ND
	ug/L	03/21/12	0.360	1	ND	ND	0.673 J	ND	2.13	ND	ND	ND	--	--	--	--	ND	ND
	ug/L	09/20/12	0.360	1	ND	ND	0.655 J	ND	2.87	ND	ND	ND	--	--	--	--	--	ND
	ug/L	03/20/13	0.360	1	ND	ND	3.30	ND	1.20	ND	ND	ND	--	--	--	--	ND	ND
	ug/L	09/18/13	0.360	1	ND	ND	0.785 J	ND	0.669 J	ND	ND	ND	--	--	--	--	--	ND
	ug/L	03/27/14	0.360	1	ND	ND	0.455 J	ND	1.24	ND	ND	ND	--	--	--	--	0.453 J	ND
	ug/L	09/18/14	0.360	1	ND	ND	0.858 J	ND	2.41	ND	ND	ND	--	--	--	--	--	ND
	ug/L	03/18/15	0.360	1	ND	ND	2.18	ND	1.63	ND	ND	ND	--	--	--	--	ND	ND
Chromium	ug/L	12/05/94	--	10	ND	ND	56	ND	--	--	--	--	--	--	--	--	ND	--
NC 2L = 10 ug/L	ug/L	02/14/95	--	10	ND	ND	ND	ND	--	--	--	--	--	--	--	--	ND	--
EPA MCL = 100 ug/L	ug/L	04/03/95	--	10	ND	ND	ND	ND	--	--	--	--	--	--	--	--	ND	--
	ug/L	10/30/95	--	10	11	ND	ND	ND	--	--	--	--	--	--	--	--	ND	--
	ug/L	04/08/96	--	10	5	ND	ND	ND	--	--	--	--	--	--	--	--	ND	--
	ug/L	10/24/96	--	10	ND	--	ND	ND	--	--	--	--	--	--	--	--	ND	--
	ug/L	04/15/97	--	10	3	--	ND	2	--	--	--	--	--	--	--	--	2	--
	ug/L	10/29/97	--	10	3	8	2	2	--	--	--	--	--	--	--	--	1	--
	ug/L	05/14/98	--	10	ND	ND	ND	ND	--	--	--	--	--	--	--	--	ND	--
	ug/L	10/11/98	--	10	ND	ND	ND	ND	--	--	--	--	--	--	--	--	ND	--
	ug/L	06/04/99	--	10	ND	ND	ND	ND	--	--	--	--	--	--	--	--	ND	--
	ug/L	10/29/99	--	10	ND	ND	ND	ND	--	--	--	--	--	--	--	--	ND	--
	ug/L	04/20/00	--	10	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	ND	--
	ug/L	11/07/00	--	10	ND	ND	ND	ND	--	--	--	--	--	--	--	--	ND	--
	ug/L	02/27/01	--	10	--	--	--	--	--	--	--	--	ND	ND	ND	ND	--	--
	ug/L	05/15/01	--	10	ND	ND	ND	ND	--	--	--	--	--	--	--	--	ND	--
	ug/L	10/16/01	--	10	ND	ND	ND	ND	--	ND	--	--	--	--	--	--	ND	--
	ug/L	04/24/02	--	10	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	ND	--
	ug/L	10/01/02	--	10	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	ND	--
	ug/L	04/09/03	--	10	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	ND	--
	ug/L	10/20/03	--	10	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	ND	--
	ug/L	03/24/04	--	10	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	ND	--
	ug/L	10/27/04	--	10	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	ND	--
	ug/L	05/25/05	--	10	ND	20.1	ND	--	ND	ND	--	--	--	--	--	--	ND	--
	ug/L	10/04/05	--	10	ND	14.9	ND	ND	ND	ND	--	--	--	--	--	--	ND	--
	ug/L	04/25/06	--	10	ND	11.4	ND	ND	ND	ND	--	--	--	--	--	--	ND	--
	ug/L	10/04/06	--	10	ND	11.3	ND	ND	ND	ND	--	--	--	--	--	--	ND	ND
	ug/L	03/21/07	--	10	3.33 J	3.81 J	6.01 J	4.12 J	2.7 J	1.29 J	--	--	--	--	--	--	1.44 J	ND
	ug/L	10/02/07	--	10	9.55 B	9.44 B	7.31 B	4.47 B	5.99 B	12.3 B	--	--	--	--	--	--	3.67 B	3.67 J
	ug/L	04/03/08	--	10	6.54 B	4.93 B	4.18 B	4.42 B	4.18 B	3.31 B	4.18 B	130	10.9 B	4.18 B	4.56 B	--	2.45 B	2.94 J
	ug/L	10/29/08	--	10	7.45 J	35.5	8.07 J	6.10 J	8.55	11.3	5.24 J	13.7	--	--	--	--	4.63 J	ND
	ug/L	03/24/09	0.7	10	ND	1.0 J	1.6 J	4.0 J	1.2 J	ND	ND	1.5 J	--	--	--	--	ND	ND
	ug/L	09/22/09	1.00	10	1.36 J	ND	1.99 J	3.28 J	1.14 J	ND	1.61 J	1.51 J	1.23 J	ND	1.33 J	--	--	ND
	ug/L	03/22/10	1.00	10	ND	Dry	ND	ND	ND	ND	ND	ND	--	--	--	ND	--	ND
	ug/L	09/23/10	1.00	10	ND	ND	1.50 J	4.38 J	ND	ND	ND	ND	--	--	--	--	--	ND
	ug/L	03/16/11	1.00	10	2.55 J	1.32 J	2.90 J	3.29 J	1.60 J	ND	3.34 J	ND	--	--	--	--	--	ND
	ug/L	09/21/11	1.00	10	ND	6.75 J	5.20 J	12.4	ND	ND	ND	ND	--	--	--	--	--	ND
	ug/L	03/21/12	1.00	10	2.15 J	3.60 J	2.25 J	4.57 J	3.36 J	ND	ND	ND	--	--	--	--	ND	ND
	ug/L	09/20/12	1.00	10	ND	ND	1.31 J	2.42 J	2.29 J	ND	ND	ND	--	--	--	--	--	ND
	ug/L	03/20/13	1.40	10	2.48 J	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	ND	ND
	ug/L	09/18/13	1.40	10	ND	4.80 J	5.25 J	3.23 J	ND	ND	ND	ND	--	--	--	--	--	ND
	ug/L	03/27/14	1.40	10	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	ND	ND
	ug/L	09/18/14	1.40	10	ND	5.15 J	1.95 J	2.65 J	1.68 J	ND	ND	ND	--	--	--	--	--	ND
	ug/L	03/18/15	1.40	10	ND	ND	7.41 J	2.76 J	2.45 J	ND	ND	ND	--	--	--	--	ND	ND
Cobalt	ug/L	12/05/94	--	10	ND	41	ND	ND	--	--	--	--	--	--	--	--	ND	--
SWS GPS = 1 ug/L	ug/L	02/14/95	--	10	ND	48	ND	ND	--	--	--	--	--	--	--	--	ND	--
EPA MCL = No Standard	ug/L	04/03/95	--	10	ND	38	ND	ND	--	--	--	--	--	--	--	--	ND	--
	ug/L	10/30/95	--	10	ND	34	ND	ND	--	--	--	--	--	--	--	--	ND	--
	ug/L	04/08/96	--	10	ND	32	ND	ND	--	--	--	--	--	--	--	--	ND	--
	ug/L	10/24/96	--	10	ND	--	ND	ND	--	--	--	--	--	--	--	--	ND	--
	ug/L	04/15/97	--	10	2	--	19	2	--	--	--	--	--	--	--	--	3	--
	ug/L	10/29/97	--	10	ND	19	7	ND	--	--	--	--	--	--	--	--	ND	--
	ug/L	05/14/98	--	10	ND	53.4	17.3	ND	--	--	--	--	--	--	--	--	ND	--
	ug/L	10/11/98	--	10	ND	ND	ND	ND	--	--	--	--	--	--	--	--	ND	--
	ug/L	06/04/99	--	10	ND	52.3	11.5	ND	--	--	--	--	--	--	--	--	ND	--
	ug/L	10/29/99	--	10	ND	ND	ND	ND	--	--	--	--	--	--	--	--	ND	--
	ug/L	04/20/00	--	10	ND	ND	12.5	ND	14.3	--	--	--	--	--	--	--	ND	--
	ug/L	11/07/00	--	10	ND	ND	ND	ND	--	--	--	--	--	--	--	--	ND	--
	ug/L	02/27/01	--	10	--	--	--	--	--	--	--	--	ND	ND	ND	ND	--	--
	ug/L	05/15/01	--	10	ND	14	ND	ND	--	--	--	--	--	--	--	--	ND	--
	ug/L	10/16/01	--	10	ND	ND	ND	ND	--	ND	--	--	--	--	--	--	ND	--
	ug/L	04/24/02	--	10	ND	17.9	ND	ND	16.1	ND	--	--	--	--	--	--	ND	--
	ug/L	10/01/02	--	10	ND	11.4	ND	ND	11.7	ND	--	--	--	--	--	--	ND	--
	ug/L	04/09/03	--	10	ND	13.1	ND	ND	ND	ND	--	--	--	--	--	--	ND	--
	ug/L	10/20/03	--	10	ND	32.1	ND	ND	ND	ND	--	--	--	--	--	--	ND	--
	ug/L	03/24/04	--	10	ND	94.9	16	ND	ND	ND	--	--	--	--	--	--	ND	--
	ug/L	10/27/04	--	10	ND	120	18.5	ND	ND	ND	--	--	--	--	--	--	ND	--
	ug/L	05/25/05	--	10	ND	35.5	16.8	--	13.4	ND	--	--	--	--	--	--	ND	--
	ug/L	10/04/05	--	10	ND	23.5	16.2	ND	16.1	ND	--	--	--	--	--	--	ND	--
	ug/L	04/25/06	--	10	ND	18.8	13.9	ND	16.1	ND	--	--	--	--	--	--	ND	--
	ug/L	10/04/06	--	10	ND	15.4	13.4	ND	18.9	ND	--	--	--	--	--	--	ND	ND
	ug/L	03/21/07	--	10	1.13 J	11.3	12.6	1.5 J	16.2	ND	--	--	--	--	--	--	ND	ND
	ug/L	10/02/07	--	10	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	ND	ND
	ug/L	04/03/08	--	10	ND	12.4	ND	ND	15.1	ND	12.5	ND	ND	ND	ND	--	ND	ND
	ug/L	10/29/08	--	10	3.55 J	35.9	5.16 J	3.74 J	24.8	ND	3.91 J	ND	--	--	--	--	ND	ND
	ug/L	03/24/09	0.6	10	0.6 J	3.1 J	ND	5.8 J	10.7	ND	4.0 J	ND	--	--	--	--	ND	ND
	ug/L	09/22/09	1.10	10	ND	4.81 J	ND	2.50 J	10.8	ND	ND	ND	ND	ND	ND	--	--	ND
	ug/L	03/22/10	1.10	10	ND	Dry	ND	6.33 J	3.47 J	ND	ND	ND	--	--	--	2.57 J	--	ND
	ug/L	09/23/10	1.10	10	ND	2.13 J	ND	9.21 J	3.42 J	ND	ND	ND	--	--	--	--	--	ND
	ug/L	03/16/11	1.10	10	ND	ND	ND	2.87 J	8.51 J	ND	1.26 J	ND	--	--	--	--	--	ND
	ug/L	09/21/11	1.10	10	ND	3.73 J	ND	7.48 J	9.15 J	ND	ND	ND	--	--	--	--	--	ND
	ug/L	03/21/12	1.10	10	ND	3.48 J	ND	3.74 J	18.4	ND	ND	ND	--	--	--	--	ND	ND
	ug/L	09/20/12	1.10	10	ND	ND	ND	3.20 J	16.0	ND	1.33 J	ND	--	--	--	--	--	ND
	ug/L	03/20/13	1.10	10	1.32 J	ND	ND	3.67 J	5.62 J	ND	ND	ND	--	--	--	--	ND	ND
	ug/L	09/18/13	1.10	10	ND	43.8	18.7	2.44 J	4.83 J	ND	2.33 J	ND	--	--	--	--	--	ND
	ug/L	03/27/14	1.10	10	ND	1.91 J	ND	3.03 J	5.44 J	ND	2.24 J	ND	--	--	--	--	1.81 J	ND
	ug/L	09/18/14	1.10	10	ND	5.56 J	ND	5.11 J	9.65 J	ND	1.23 J	ND	--	--	--	--	--	ND
	ug/L	03/18/15	1.10	10	ND	ND	2.67 J	5.00 J	7.67 J	ND	1.78 J	ND	--	--	--	--	1.67 J	ND
Copper	ug/L	12/05/94	--	10	ND	ND	19	ND	--	--	--	--	--	--	--	--	ND	--
NC 2L = 1000 ug/L	ug/L	02/14/95	--	10	10	ND	ND	ND	--	--	--	--	--	--	--	--	16	--
EPA MCL = 1300 ug/L#	ug/L	04/03/95	--	10	ND	ND	13	12	--	--	--	--	--	--	--	--	14	--
	ug/L	10/30/95	--	10	ND	ND	ND	ND	--	--	--	--	--	--	--	--	ND	--
	ug/L	04/08/96	--	10	ND	ND	ND	ND	--	--	--	--	--	--	--	--	ND	--
	ug/L	10/24/96	--	10	13	--	ND	ND	--	--	--	--	--	--	--	--	10	--
	ug/L	04/15/97	--	10	20	--	ND	ND	--	--	--	--	--	--	--	--	ND	--
	ug/L	10/29/97	--	10	20	ND	ND	ND	--	--	--	--	--	--	--	--	ND	--
	ug/L	05/14/98	--	10	ND	ND	ND	ND	--	--	--	--	--	--	--	--	ND	--
	ug/L	10/11/98	--	10	ND	ND	ND	ND	--	--	--	--	--	--	--	--	ND	--
	ug/L	06/04/99	--	10	ND	ND	ND	ND	--	--	--	--	--	--	--	--	ND	--
	ug/L	10/29/99	--	10	ND	ND	ND	ND	--	--	--	--	--	--	--	--	ND	--
	ug/L	04/20/00	--	10	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	ND	--
	ug/L	11/07/00	--	10	ND	ND	ND	ND	--	--	--	--	--	--	--	--	ND	--
	ug/L	02/27/01	--	10	--	--	--	--	--	--	--	--	ND	ND	ND	ND	--	--
	ug/L	05/15/01	--	10	ND	ND	ND	ND	--	--	--	--	--	--	--	--	ND	--
	ug/L	10/16/01	--	10	ND	ND	ND	ND	--	ND	--	--	--	--	--	--	ND	--
	ug/L	04/24/02	--	10	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	ND	--
	ug/L	10/01/02	--	10	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	ND	--
	ug/L	04/09/03	--	10	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	ND	--
	ug/L	10/20/03	--	10	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	ND	--
	ug/L	03/24/04	--	10	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	ND	--
	ug/L	10/27/04	--	10	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	ND	--
	ug/L	05/25/05	--	10	ND	ND	ND	--	ND	ND	--	--	--	--	--	--	ND	--
	ug/L	10/04/05	--	10	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	ND	--
	ug/L	04/25/06	--	10	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	ND	--
	ug/L	10/04/06	--	10	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	ND	ND
	ug/L	03/21/07	--	10	12.4	12.8	4.23 J	5.28 J	5.41 J	5.15 J	--	--	--	--	--	--	9.92 J	ND
	ug/L	10/02/07	--	10	33.9	16.7 B	6.61 B	7.24 B	9.14 B	6.91 B	--	--	--	--	--	--	5.94 B	6.41 J
	ug/L	04/03/08	--	10	23.4	23.9	4.54 B	6.53 B	5.54 B	5.75 B	5.89 B	10.6 B	10.6 B	6.43 B	9.07 B	--	4.58 B	4.46 J
	ug/L	10/29/08	--	10	16.5	145	7.91 J	8.17 J	8.61	9.49	6.93 J	7.82 J	--	--	--	--	6.28 J	ND
	ug/L	03/24/09	0.81	10	2.32 J	4.96 J	ND	ND	ND	ND	ND	ND	--	--	--	--	ND	ND
	ug/L	09/22/09	1.60	10	5.15 J	6.17 J	ND	ND	ND	ND	ND	ND	ND	ND	3.65 J	--	--	ND
	ug/L	03/22/10	1.60	10	1.84 J	Dry	ND	ND	ND	ND	ND	ND	--	--	--	ND	--	ND
	ug/L	09/23/10	1.60	10	1.77 J	ND	ND	9.93 J	ND	ND	ND	ND	--	--	--	--	--	ND
	ug/L	03/16/11	1.60	10	9.85 J	6.75 J	ND	2.99 J	1.73 J	1.66 J	4.98 J	ND	--	--	--	--	--	ND
	ug/L	09/21/11	1.60	10	4.10 J	12.8	ND	14.2	ND	ND	ND	ND	--	--	--	--	--	ND
	ug/L	03/21/12	1.60	10	8.77 J	ND	ND	2.96 J	ND	ND	ND	ND	--	--	--	--	ND	ND
	ug/L	09/20/12	1.60	10	1.77 J	3.29 J	ND	2.54 J	ND	ND	ND	ND	--	--	--	--	--	ND
	ug/L	03/20/13	1.60	10	9.21 J	5.01 J	1.84 J	2.57 J	ND	1.99 J	ND	ND	--	--	--	--	ND	ND
	ug/L	09/18/13	1.60	10	5.69 J	9.55 J	ND	ND	ND	ND	1.99 J	ND	--	--	--	--	--	ND
	ug/L	03/27/14	1.60	10	ND	2.51 J	ND	2.75 J	ND	ND	ND	ND	--	--	--	--	ND	ND
	ug/L	09/18/14	1.60	10	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	--	ND
	ug/L	03/18/15	1.60	10	2.54 B	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	2.90 B	1.74 J

TABLE 7

Summary of Detected Constituents in MSW Monitoring Wells
Henderson County Closed MSW Landfill, Permit No. 45-01

Detected Monitoring Constituent/Parameter	Units	Date	MDL	SWS Reporting Limit	Upgradient Compliance Well	Downgradient Compliance Wells			Assessment Wells				Non-Compliance Wells				TVA Well	Blanks
					MW-5	MW-6	MW-7	MW-8	AMW-1S	AMW-1D	AMW-2S	AMW-2D	Old MW-1	MW-1	Old MW-2	MW-2	MW-9	
Lead	uq/L	12/05/94	--	10	ND	7	**27**	7	--	--	--	--	--	--	--	--	ND	--
NC 2L = 15 uq/L	uq/L	02/14/95	--	10	ND	10	5	ND	--	--	--	--	--	--	--	--	ND	--
EPA MCL = 15 ug/L#	ug/L	04/03/95	--	10	ND	12	ND	ND	--	--	--	--	--	--	--	--	ND	--
	ug/L	10/30/95	--	10	7	**19**	ND	ND	--	--	--	--	--	--	--	--	ND	--
	uq/L	04/08/96	--	10	ND	6	ND	ND	--	--	--	--	--	--	--	--	ND	--
	uq/L	10/24/96	--	10	8	--	7	ND	--	--	--	--	--	--	--	--	13	--
	uq/L	04/15/97	--	10	13	--	ND	12	--	--	--	--	--	--	--	--	12	--
	uq/L	10/29/97	--	10	9	**36**	5	11	--	--	--	--	--	--	--	--	ND	--
	ug/L	05/14/98	--	10	ND	14.4	ND	ND	--	--	--	--	--	--	--	--	ND	--
	ug/L	10/11/98	--	10	ND	ND	ND	ND	--	--	--	--	--	--	--	--	ND	--
	ug/L	06/04/99	--	10	ND	11.9	ND	ND	--	--	--	--	--	--	--	--	ND	--
	ug/L	10/29/99	--	10	ND	ND	ND	ND	--	--	--	--	--	--	--	--	ND	--
	uq/L	04/20/00	--	10	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	ND	--
	uq/L	11/07/00	--	10	ND	ND	ND	ND	--	--	--	--	--	--	--	--	ND	--
	uq/L	02/27/01	--	10	--	--	--	--	--	--	--	--	ND	ND	ND	ND	--	--
	uq/L	05/15/01	--	10	ND	ND	ND	ND	--	--	--	--	--	--	--	--	ND	--
	uq/L	10/16/01	--	10	ND	ND	ND	ND	--	ND	--	--	--	--	--	--	ND	--
	ug/L	04/24/02	--	10	**24**	ND	ND	ND	ND	ND	--	--	--	--	--	--	ND	--
	ug/L	10/01/02	--	10	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	ND	--
	ug/L	04/09/03	--	10	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	ND	--
	uq/L	10/20/03	--	10	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	ND	--
	uq/L	03/24/04	--	10	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	ND	--
	uq/L	10/27/04	--	10	ND	**61.3**	ND	**17.4**	ND	ND	--	--	--	--	--	--	ND	--
	uq/L	05/25/05	--	10	ND	11.9	ND	--	ND	ND	--	--	--	--	--	--	ND	--
	uq/L	10/04/05	--	10	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	ND	--
	uq/L	04/25/06	--	10	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	ND	--
	uq/L	10/04/06	--	10	ND	12.7	ND	ND	ND	ND	--	--	--	--	--	--	ND	ND
	uq/L	03/21/07	--	10	ND	6.56 J	3.69 J	ND	3.14 J	ND	--	--	--	--	--	--	1.9 J	ND
	uq/L	10/02/07	--	10	**69.2 J**	7.18 J	1.39 B	0.9 B	0.80 B	0.56 B	--	--	--	--	--	--	0.57 B	0.49 J
	uq/L	04/03/08	--	10	**75.8 J**	**16.4**	ND	8 J	6.43 J	3.78 J	6.16 J	12.5	**18.5**	4.68 J	6.18 J	--	6.23 J	ND
	uq/L	10/29/08	--	10	**75.9 J**	**84.7**	7.72 J	6.83 J	9.41	9.08	8.50 J	6.93 J	--	--	--	--	4.54 J	ND
	uq/L	03/24/09	1.6	10	3.3 J	5.6 J	1.6 J	6.2 J	2.5 J	1.6 J	3.1 J	ND	--	--	--	--	ND	ND
	uq/L	09/22/09	1.90	10	3.52 J	2.55 J	ND	3.17 J	2.50 J	ND	3.96 J	1.95 J	ND	ND	ND	--	--	ND
	uq/L	03/22/10	1.90	10	ND	Dry	ND	2.20 J	ND	ND	ND	ND	--	--	--	2.57 J	--	ND
	uq/L	09/23/10	1.90	10	ND	ND	ND	12.2	ND	ND	ND	ND	--	--	--	--	--	ND
	uq/L	03/16/11	1.90	10	4.92 J	ND	ND	3.40 J	ND	ND	**25.6**	2.69 J	--	--	--	--	--	ND
	uq/L	09/21/11	1.90	10	ND	**15.5**	3.27 J	**18.5**	2.57 J	ND	ND	ND	--	--	--	--	--	ND
	uq/L	03/21/12	1.90	10	4.38 J	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	ND	ND
	uq/L	09/20/12	1.90	10	2.53 B	3.10 B	4.18 B	5.91 B	4.90 B	4.40 B	4.82 B	3.00 B	--	--	--	--	--	2.70 J
	uq/L	03/20/13	1.90	10	ND	ND	3.46 J	ND	ND	ND	ND	ND	--	--	--	--	ND	ND
	uq/L	09/18/13	2.10	10	ND	**17.4**	ND	ND	ND	ND	6.58 J	ND	--	--	--	--	--	ND
	uq/L	03/27/14	2.10	10	ND	2.26 J	ND	2.33 J	ND	ND	ND	ND	--	--	--	--	ND	ND
	uq/L	09/18/14	2.10	10	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	--	ND
	uq/L	03/18/15	2.10	10	ND	ND	3.32 J	ND	ND	ND	ND	ND	--	--	--	--	ND	ND
Mercury	uq/L	12/05/94	--	0.2	--	--	--	--	--	--	--	--	--	--	--	--	--	--
NC 2L = 1 uq/L	uq/L	02/14/95	--	0.2	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EPA MCL = 2 uq/L	uq/L	04/03/95	--	0.2	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	uq/L	10/30/95	--	0.2	0.5	ND	0.9	0.9	--	--	--	--	--	--	--	--	0.8	--
	uq/L	04/08/96	--	0.2	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	uq/L	10/24/96	--	0.2	0.7	--	ND	ND	--	--	--	--	--	--	--	--	ND	--
	uq/L	04/15/97	--	0.2	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	uq/L	10/29/97	--	0.2	ND	ND	**1.9**	0.8	--	--	--	--	--	--	--	--	ND	--
	uq/L	05/14/98	--	0.2	ND	ND	**2**	0.2	--	--	--	--	--	--	--	--	ND	--
	uq/L	10/11/98	--	0.2	ND	ND	ND	0.2	--	--	--	--	--	--	--	--	ND	--
	uq/L	06/04/99	--	0.2	ND	ND	0.5	ND	--	--	--	--	--	--	--	--	ND	--
	uq/L	10/29/99	--	0.2	ND	ND	0.4	ND	--	--	--	--	--	--	--	--	ND	--
	uq/L	04/20/00	--	0.2	ND	ND	1.0	ND	ND	--	--	--	--	--	--	--	ND	--
	uq/L	11/07/00	--	0.2	ND	ND	ND	ND	--	--	--	--	--	--	--	--	ND	--
	uq/L	02/27/01	--	0.2	--	--	--	--	--	--	--	--	ND	ND	ND	ND	--	--
	uq/L	05/15/01	--	0.2	ND	ND	0.4	ND	--	--	--	--	--	--	--	--	ND	--
	uq/L	10/16/01	--	0.2	ND	ND	0.3	0.3	--	ND	--	--	--	--	--	--	0.3	--
	ug/L	04/24/02	--	0.2	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	ND	--
	uq/L	10/01/02	--	0.2	ND	ND	0.3	ND	ND	ND	--	--	--	--	--	--	ND	--
	uq/L	04/09/03	--	0.2	ND	ND	0.3	ND	ND	ND	--	--	--	--	--	--	0.3	--
	uq/L	10/20/03	--	0.2	ND	ND	0.45	ND	ND	ND	--	--	--	--	--	--	ND	--
	uq/L	03/24/04	--	0.2	ND	ND	0.73	0.258	ND	ND	--	--	--	--	--	--	ND	--
	uq/L	10/27/04	--	0.2	ND	ND	0.91	ND	ND	ND	--	--	--	--	--	--	ND	--
	uq/L	05/25/05	--	0.2	ND	ND	0.72	--	ND	ND	--	--	--	--	--	--	ND	--
	uq/L	10/04/05	--	0.2	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	ND	--
	uq/L	04/25/06	--	0.2	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	ND	--
	uq/L	10/04/06	--	0.2	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	ND	ND
	uq/L	03/21/07	--	0.2	ND	ND	0.134 J	0.242 J	ND	ND	--	--	--	--	--	--	ND	ND
	uq/L	10/02/07	--	0.2	ND	ND	ND	0.709	ND	ND	--	--	--	--	--	--	ND	ND
	uq/L	04/03/08	--	0.2	ND	ND	ND	0.489	ND	ND	ND	ND	**1.05**	ND	**3.06**	--	ND	ND
	uq/L	10/29/08	--	0.2	ND	0.145 J	ND	0.503	ND	ND	ND	ND	--	--	--	--	ND	ND
	ug/L	03/24/09	0.11	0.2	ND	ND	ND	**1.33**	ND	ND	ND	ND	--	--	--	--	0.14 J	ND
	ug/L	09/22/09	0.0540	0.2	ND	ND	0.0926 J	0.419	--	--	--	--	--	--	--	--	--	ND
	ug/L	03/22/10	0.0540	0.2	ND	Dry	ND	ND	ND	ND	ND	ND	--	--	--	--	--	ND
	ug/L	09/23/10	0.170	0.2	ND	ND	ND	0.371	ND	ND	ND	ND	--	--	--	--	--	ND
(dissolved)	uq/L	09/23/10	0.170	0.2	--	--	--	ND	--	--	--	--	--	--	--	--	--	--
	uq/L	03/16/11	0.170	0.2	ND	ND	ND	ND	ND	ND	0.178 J	ND	--	--	--	--	--	ND
	uq/L	09/21/11	0.170	0.2	ND	ND	ND	0.683	ND	ND	0.225	ND	--	--	--	--	--	ND
	uq/L	03/21/12	0.170	0.2	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	--	ND
	uq/L	09/20/12	0.170	0.2	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	--	ND
	uq/L	03/20/13	0.170	0.2	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	--	ND
	uq/L	09/18/13	0.170	0.2	ND	ND	ND	ND	ND	ND	0.302	ND	--	--	--	--	--	ND
	uq/L	03/27/14	0.170	0.2	ND	ND	ND	ND	ND	ND	0.308	ND	--	--	--	--	--	ND
	uq/L	09/18/14	0.170	0.2	ND	ND	ND	ND	ND	ND	**1.53**	ND	--	--	--	--	--	ND
	uq/L	03/18/15	0.170	0.2	ND	ND	ND	ND	ND	ND	**1.49**	ND	--	--	--	--	-	ND
Nickel	uq/L	12/05/94	--	50	ND	ND	ND	ND	--	--	--	--	--	--	--	--	ND	--
NC 2L = 100 uq/L	uq/L	02/14/95	--	50	ND	ND	ND	ND	--	--	--	--	--	--	--	--	ND	--
EPA MCL = No Standard	uq/L	04/03/95	--	50	ND	ND	ND	ND	--	--	--	--	--	--	--	--	ND	--
	ug/L	10/30/95	--	50	ND	ND	ND	ND	--	--	--	--	--	--	--	--	ND	--
	uq/L	04/08/96	--	50	ND	ND	ND	ND	--	--	--	--	--	--	--	--	ND	--
	uq/L	10/24/96	--	50	ND	--	ND	ND	--	--	--	--	--	--	--	--	ND	--
	uq/L	04/15/97	--	50	ND	--	ND	ND	--	--	--	--	--	--	--	--	ND	--
	uq/L	10/29/97	--	50	ND	ND	ND	ND	--	--	--	--	--	--	--	--	ND	--
	uq/L	05/14/98	--	50	ND	ND	ND	ND	--	--	--	--	--	--	--	--	ND	--
	uq/L	10/11/98	--	50	ND	ND	ND	ND	--	--	--	--	--	--	--	--	ND	--
	uq/L	06/04/99	--	50	ND	ND	ND	ND	--	--	--	--	--	--	--	--	ND	--
	uq/L	10/29/99	--	50	ND	ND	ND	ND	--	--	--	--	--	--	--	--	ND	--
	uq/L	04/20/00	--	50	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	ND	--
	uq/L	11/07/00	--	50	ND	ND	ND	ND	--	--	--	--	--	--	--	--	ND	--
	uq/L	02/27/01	--	50	--	--	--	--	--	--	--	--	ND	ND	ND	ND	--	--
	uq/L	05/15/01	--	50	ND	ND	ND	ND	--	--	--	--	--	--	--	--	ND	--
	uq/L	10/16/01	--	50	ND	ND	ND	ND	--	ND	--	--	--	--	--	--	ND	--
	uq/L	04/24/02	--	50	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	ND	--
	uq/L	10/01/02	--	50	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	ND	--
	uq/L	04/09/03	--	50	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	ND	--
	uq/L	10/20/03	--	50	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	ND	--
	uq/L	03/24/04	--	50	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	ND	--
	uq/L	10/27/04	--	50	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	ND	--
	uq/L	05/25/05	--	50	ND	ND	ND	--	ND	ND	--	--	--	--	--	--	ND	--
	uq/L	10/04/05	--	50	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	ND	--
	uq/L	04/25/06	--	50	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	ND	--
	uq/L	10/04/06	--	50	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	ND	ND
	uq/L	03/21/07	--	50	ND	1.61 J	ND	ND	ND	ND	--	--	--	--	--	--	ND	ND
	uq/L	10/02/07	--	50	2.75 B	9.04 J	0.67 B	0.9 B	4.65 J	8.72 J	--	--	--	--	--	--	0.24 B	0.8 J
	uq/L	04/03/08	--	50	ND	ND	ND	ND	ND	ND	5.89 J	7.09 J	ND	ND	5.50 J	--	ND	ND
	uq/L	10/29/08	--	50	ND	47.3 J	ND	ND	8.13 J	7.57 J	6.40 J	4.99 J	--	--	--	--	ND	ND
	uq/L	03/24/09	0.6	50	ND	3.9 J	ND	2.8 J	2.5 J	0.9 J	2.2 J	ND	--	--	--	--	ND	ND
	uq/L	09/22/09	1.80	50	ND	3.77 J	ND	ND	2.54 J	2.04 J	ND	ND	ND	ND	5.64 J	--	--	ND
	uq/L	03/22/10	1.80	50	ND	Dry	ND	ND	ND	ND	ND	ND	--	--	--	ND	--	ND
	uq/L	09/23/10	1.80	50	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	--	ND
	uq/L	03/16/11	1.80	50	ND	2.28 J	ND	ND	ND	ND	ND	ND	--	--	--	--	--	ND
	uq/L	09/21/11	1.80	50	ND	4.59 J	ND	ND	2.04 J	ND	ND	ND	--	--	--	--	--	ND
	uq/L	03/21/12	1.80	50	ND	3.62 J	ND	ND	3.14 J	ND	ND	ND	--	--	--	--	ND	ND
	uq/L	09/20/12	1.80	50	ND	ND	ND	ND	2.62 J	ND	ND	ND	--	--	--	--	--	ND
	uq/L	03/20/13	1.80	50	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	ND	ND
	uq/L	09/18/13	1.80	50	ND	8.99 J	4.74 J	ND	ND	ND	ND	ND	--	--	--	--	--	ND
	uq/L	03/27/14	1.80	50	ND	1.80 J	ND	ND	ND	ND	ND	ND	--	--	--	--	ND	ND
	uq/L	09/18/14	1.80	50	ND	6.47 J	ND	ND	ND	ND	ND	ND	--	--	--	--	--	ND
	uq/L	03/18/15	1.80	50	ND	ND	2.55 J	ND	2.22 J	ND	ND	ND	--	--	--	--	ND	ND
Selenium	uq/L	12/05/94	--	10	ND	ND	ND	ND	--	--	--	--	--	--	--	--	ND	--
NC 2L = 20 ug/L	uq/L	02/14/95	--	10	ND	ND	ND	ND	--	--	--	--	--	--	--	--	ND	--
EPA MCL = 50 ug/L	uq/L	04/03/95	--	10	ND	ND	ND	ND	--	--	--	--	--	--	--	--	ND	--
	uq/L	10/30/95	--	10	ND	ND	ND	ND	--	--	--	--	--	--	--	--	ND	--
	uq/L	04/08/96	--	10	ND	ND	ND	ND	--	--	--	--	--	--	--	--	ND	--
	uq/L	10/24/96	--	10	ND	--	ND	ND	--	--	--	--	--	--	--	--	ND	--
	uq/L	04/15/97	--	10	ND	--	ND	ND	--	--	--	--	--	--	--	--	ND	--
	uq/L	10/29/97	--	10	ND	ND	ND	ND	--	--	--	--	--	--	--	--	ND	--
	uq/L	05/14/98	--	10	ND	ND	ND	ND	--	--	--	--	--	--	--	--	ND	--
	uq/L	10/11/98	--	10	ND	ND	ND	ND	--	--	--	--	--	--	--	--	ND	--
	uq/L	06/04/99	--	10	ND	**61.1**	ND	ND	--	--	--	--	--	--	--	--	ND	--
	uq/L	10/29/99	--	10	ND	ND	ND	ND	--	--	--	--	--	--	--	--	ND	--
	uq/L	04/20/00	--	10	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	ND	--
	uq/L	11/07/00	--	10	ND	ND	ND	ND	--	--	--	--	--	--	--	--	ND	--
	uq/L	02/27/01	--	10	--	--	--	--	--	--	--	--	ND	ND	ND	ND	--	--
	uq/L	05/15/01	--	10	ND	**24.7**	ND	ND	--	--	--	--	--	--	--	--	ND	--
	uq/L	10/16/01	--	10	ND	ND	ND	ND	--	**20.6**	--	--	--	--	--	--	ND	--
	ug/L	04/24/02	--	10	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	ND	--
	uq/L	10/01/02	--	10	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	ND	--
	uq/L	04/09/03	--	10	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	ND	--
	uq/L	10/20/03	--	10	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	ND	--
	uq/L	03/24/04	--	10	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	ND	--
	uq/L	10/27/04	--	10	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	ND	--
	uq/L	05/25/05	--	10	ND	**25.3**	ND	--	ND	ND	--	--	--	--	--	--	ND	--
	uq/L	10/04/05	--	10	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	ND	--
	uq/L	04/25/06	--	10	ND	**26.6**	ND	ND	ND	ND	--	--	--	--	--	--	ND	--
	uq/L	10/04/06	--	10	ND	**23.4**	ND	ND	ND	ND	--	--	--	--	--	--	ND	ND
	uq/L	03/21/07	--	10	9.46 J	**23.4**	10.7 J	ND	ND	ND	--	--	--	--	--	--	ND	ND
	uq/L	10/02/07	--	10	ND	7.49 J	ND	11.1	ND	ND	--	--	--	--	--	--	8.68 J	ND
	uq/L	04/03/08	--	10	ND	10.7	ND	ND	10.9	ND	9.54 J	7.51 J	ND	ND	ND	--	ND	ND
	uq/L	10/29/08	--	10	ND	**37.5**	ND	ND	1.94	ND	ND	ND	--	--	--	--	ND	ND
	uq/L	03/24/09	3.4	10	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	ND	ND
	uq/L	09/22/09	2.70	10	6.68 B	ND	8.38 B	4.55 B	ND	7.33 B	4.11 B	5.98 B	9.81 B	7.52 B	5.27 B	--	--	6.41 J
	uq/L	03/22/10	0.830	10	ND	Dry	ND	ND	0.962 J	ND	ND	ND	--	--	--	ND	--	ND
	uq/L	09/23/10	5.20	10	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	--	ND
	uq/L	03/16/11	2.70	10	ND	ND	ND	ND	5.08 B	ND	ND	ND	--	--	--	--	--	3.32 J
	uq/L	09/21/11	2.70	10	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	--	ND
	uq/L	03/21/12	2.70	10	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	ND	ND
	uq/L	09/20/12	2.70	10	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	--	ND
	uq/L	03/20/13	4.50	10	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	ND	ND
	uq/L	09/18/13	5.00	10	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	--	ND
	uq/L	03/27/14	5.00	10	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	5.67 (ND) J	ND
	ug/L	09/18/14	5.00	10	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	--	ND
	ug/L	03/18/15	5.00	10	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	ND	ND

TABLE 7

Summary of Detected Constituents in MSW Monitoring Wells
Henderson County Closed MSW Landfill, Permit No. 45-01

Detected Monitoring Constituent/Parameter	Units	Date	MDL	SWS Reporting Limit	Upgradient Compliance Well	Downgradient Compliance Wells			Assessment Wells				Non-Compliance Wells				TVA Well	Blanks
					MW-5	MW-6	MW-7	MW-8	AMW-1S	AMW-1D	AMW-2S	AMW-2D	Old MW-1	MW-1	Old MW-2	MW-2	MW-9	
Silver	ug/L	12/05/94	--	10	ND	ND	ND	ND	--	--	--	--	--	--	--	--	ND	--
NC 2L = 20 ug/L	ug/L	02/14/95	--	10	ND	ND	ND	ND	--	--	--	--	--	--	--	--	11	--
EPA MCL = 100 ug/L	ug/L	04/03/95	--	10	ND	ND	ND	ND	--	--	--	--	--	--	--	--	ND	--
	ug/L	10/30/95	--	10	ND	ND	ND	ND	--	--	--	--	--	--	--	--	ND	--
	ug/L	04/08/96	--	10	ND	ND	ND	ND	--	--	--	--	--	--	--	--	ND	--
	ug/L	10/24/96	--	10	ND	--	ND	ND	--	--	--	--	--	--	--	--	ND	--
	ug/L	04/15/97	--	10	0.9	--	0.9	0.7	--	--	--	--	--	--	--	--	0.3	--
	ug/L	10/29/97	--	10	ND	ND	ND	ND	--	--	--	--	--	--	--	--	ND	--
	ug/L	05/14/98	--	10	ND	ND	ND	ND	--	--	--	--	--	--	--	--	ND	--
	ug/L	10/11/98	--	10	ND	ND	ND	ND	--	--	--	--	--	--	--	--	ND	--
	ug/L	06/04/99	--	10	ND	ND	ND	ND	--	--	--	--	--	--	--	--	ND	--
	ug/L	10/29/99	--	10	ND	ND	ND	ND	--	--	--	--	--	--	--	--	ND	--
	ug/L	04/20/00	--	10	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	ND	--
	ug/L	11/07/00	--	10	ND	ND	ND	ND	--	--	--	--	--	--	--	--	ND	--
	ug/L	02/27/01	--	10	--	--	--	--	--	--	--	--	ND	ND	ND	ND	--	--
	ug/L	05/15/01	--	10	ND	11.3	ND	ND	--	--	--	--	--	--	--	--	ND	--
	ug/L	10/16/01	--	10	ND	ND	ND	ND	--	ND	--	--	--	--	--	--	ND	--
	ug/L	04/24/02	--	10	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	ND	--
	ug/L	10/01/02	--	10	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	ND	--
	ug/L	04/09/03	--	10	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	ND	--
	ug/L	10/20/03	--	10	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	ND	--
	ug/L	03/24/04	--	10	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	ND	--
	ug/L	10/27/04	--	10	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	ND	--
	ug/L	05/25/05	--	10	ND	ND	ND	--	ND	ND	--	--	--	--	--	--	ND	--
	ug/L	10/04/05	--	10	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	ND	--
	ug/L	04/25/06	--	10	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	ND	--
	ug/L	10/04/06	--	10	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	ND	ND
	ug/L	03/21/07	--	10	ND	0.64 J	3.42 J	0.5 J	1.14 J	0.46 J	--	--	--	--	--	--	3.18 J	ND
	ug/L	10/02/07	--	10	ND	1.82 J	0.91 J	ND	0.86 J	ND	--	--	--	--	--	--	ND	ND
	ug/L	04/03/08	--	10	ND	0.97 J	2.04 J	ND	0.94 J	ND	1.48 J	ND	ND	1.04 B	1.18 B	--	ND	ND
	ug/L	10/29/08	--	10	4.74 J	6.91 J	5.23 J	5.00 J	6.32 J	5.19 J	4.91 J	4.33 J	--	--	--	--	5.24 J	ND
	ug/L	03/24/09	1.0	10	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	ND	ND
	ug/L	09/22/09	1.90	10	ND	ND	ND	ND	2.24 J	ND	ND	ND	ND	ND	ND	--	--	ND
	ug/L	03/22/10	1.90	10	ND	Dry	ND	3.34 J	ND	ND	ND	ND	--	--	--	ND	--	ND
	ug/L	09/23/10	1.90	10	ND	2.52 J	ND	3.05 J	ND	ND	ND	ND	--	--	--	--	--	ND
	ug/L	03/16/11	1.90	10	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	--	ND
	ug/L	09/21/11	1.90	10	ND	3.73 J	ND	2.33 J	ND	ND	ND	ND	--	--	--	--	--	ND
	ug/L	03/21/12	1.90	10	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	ND	ND
	ug/L	09/20/12	1.90	10	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	--	ND
	ug/L	03/20/13	1.90	10	ND	ND	7.00 B	3.58 B	3.31 B	ND	2.17 B	ND	--	--	--	--	ND	2.11 J
	ug/L	09/18/13	1.90	10	ND	2.92 J	4.35 J	2.07 J	ND	ND	ND	ND	--	--	--	--	--	ND
	ug/L	03/27/14	1.90	10	ND	ND	1.98 J	ND	ND	ND	ND	ND	--	--	--	--	ND	ND
	ug/L	09/18/14	1.90	10	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	--	ND
	ug/L	03/18/15	1.90	10	ND	ND	4.00 J	ND	2.05 J	ND	ND	ND	--	--	--	--	ND	ND
Thallium	ug/L	12/05/94	--	5.5	ND	ND	ND	ND	--	--	--	--	--	--	--	--	ND	--
NC 2L = 0.28 ug/L	ug/L	02/14/95	--	5.5	ND	ND	ND	ND	--	--	--	--	--	--	--	--	ND	--
EPA MCL = 2 ug/L	ug/L	04/03/95	--	5.5	ND	ND	ND	ND	--	--	--	--	--	--	--	--	ND	--
	ug/L	10/30/95	--	5.5	ND	ND	ND	ND	--	--	--	--	--	--	--	--	ND	--
	ug/L	04/08/96	--	5.5	ND	ND	ND	ND	--	--	--	--	--	--	--	--	ND	--
	ug/L	10/24/96	--	5.5	ND	--	ND	ND	--	--	--	--	--	--	--	--	ND	--
	ug/L	04/15/97	--	5.5	ND	--	ND	ND	--	--	--	--	--	--	--	--	ND	--
	ug/L	10/29/97	--	5.5	**1**	**1**	**1**	**1**	--	--	--	--	--	--	--	--	**2**	--
	ug/L	05/14/98	--	5.5	ND	ND	ND	ND	--	--	--	--	--	--	--	--	ND	--
	ug/L	10/11/98	--	5.5	ND	ND	ND	ND	--	--	--	--	--	--	--	--	ND	--
	ug/L	06/04/99	--	5.5	ND	ND	ND	ND	--	--	--	--	--	--	--	--	ND	--
	ug/L	10/29/99	--	5.5	ND	ND	ND	ND	--	--	--	--	--	--	--	--	ND	--
	ug/L	04/20/00	--	5.5	**13.7**	ND	ND	ND	ND	--	--	--	--	--	--	--	ND	--
	ug/L	11/07/00	--	5.5	ND	ND	ND	ND	--	--	--	--	--	--	--	--	ND	--
	ug/L	02/27/01	--	5.5	--	--	--	--	--	--	--	--	ND	ND	ND	ND	--	--
	ug/L	06/21/01	--	5.5	ND	--	ND	ND	--	--	--	--	--	--	--	--	ND	--
	ug/L	10/16/01	--	5.5	ND	ND	ND	ND	--	ND	--	--	--	--	--	--	ND	--
	ug/L	04/24/02	--	5.5	ND	**22.4**	ND	ND	ND	ND	--	--	--	--	--	--	ND	--
	ug/L	10/01/02	--	5.5	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	ND	--
	ug/L	04/09/03	--	5.5	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	ND	--
	ug/L	10/20/03	--	5.5	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	ND	--
	ug/L	03/24/04	--	5.5	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	ND	--
	ug/L	10/27/04	--	5.5	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	ND	--
	ug/L	05/25/05	--	5.5	ND	**77.1**	**22**	--	ND	ND	--	--	--	--	--	--	ND	--
	ug/L	10/04/05	--	5.5	ND	**58.5**	**54.6**	**17.8**	ND	ND	--	--	--	--	--	--	ND	--
	ug/L	04/25/06	--	5.5	ND	**81.3**	**24.2**	ND	ND	ND	--	--	--	--	--	--	ND	--
	ug/L	10/04/06	--	5.5	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	ND	ND
	ug/L	03/21/07	--	5.5	ND	ND	**24**	ND	ND	ND	--	--	--	--	--	--	ND	ND
	ug/L	10/02/07	--	5.5	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	ND	ND
	ug/L	04/03/08	--	5.5	ND	ND	ND	ND	ND	ND	--	--	ND	ND	ND	--	ND	ND
	ug/L	10/29/08	--	5.5	ND	**8.90**	ND	**6.97**	**9.61**	ND	--	--	--	--	--	--	ND	ND
	ug/L	03/24/09	0.036	5.5	0.051 B	0.090 B	0.080 B	0.242 B	0.280 B	ND	ND	ND	--	--	--	--	ND	0.092 J
	ug/L	09/22/09	0.110	5.5	ND	ND	ND	**0.404 J**	0.212 J	ND	ND	ND	ND	ND	ND	--	--	ND
	ug/L	03/22/10	0.110	5.5	ND	Dry	0.118 J	**0.620 J**	0.169 J	ND	ND	ND	--	--	--	ND	--	ND
	ug/L	09/23/10	0.110	5.5	ND	ND	0.124 J	**1.18 J**	ND	ND	ND	ND	--	--	--	--	--	ND
	ug/L	03/16/11	0.110	5.5	ND	ND	**0.516 J**	**1.12 J**	0.274 J	**0.491 J**	**0.514 J**	ND	--	--	--	--	--	ND
	ug/L	09/21/11	0.110	5.5	ND	ND	ND	**1.53 J**	ND	ND	ND	ND	--	--	--	--	--	ND
	ug/L	03/21/12	0.110	5.5	ND	ND	0.119 J	**1.31 J**	**0.418 J**	ND	ND	ND	--	--	--	--	ND	ND
	ug/L	09/20/12	0.110	5.5	ND	0.144 J	0.155 J	**1.09 J**	**0.512 J**	ND	ND	ND	--	--	--	--	--	ND
	ug/L	03/20/13	0.110	5.5	0.117 J	ND	**0.413 J**	**0.659 J**	**0.487 J**	ND	ND	ND	--	--	--	--	ND	ND
	ug/L	09/18/13	0.110	5.5	ND	0.127 B	0.604 B	0.609 B	0.459 B	ND	ND	ND	--	--	--	--	--	0.142 J
	ug/L	03/27/14	0.110	5.5	ND	0.131 J	0.171 J	**0.637 J**	**0.340 J**	ND	ND	ND	--	--	--	--	ND	ND
	ug/L	09/18/14	0.110	5.5	ND	ND	0.145 J	**0.815 J**	**0.663 J**	ND	ND	ND	--	--	--	--	--	ND
	ug/L	03/18/15	0.110	5.5	ND	ND	**0.281 J**	**0.605 J**	**0.514 J**	ND	ND	ND	--	--	--	--	ND	ND
Tin	ug/L	12/05/94	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SWS GPS = 2000 ug/L	ug/L	02/14/95	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EPA MCL = No Standard	ug/L	04/03/95	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	ug/L	10/30/95	--	--	ND	ND	ND	ND	--	--	--	--	--	--	--	--	ND	--
	ug/L	04/08/96	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	ug/L	10/24/96	--	--	ND	--	ND	ND	--	--	--	--	--	--	--	--	ND	--
	ug/L	04/15/97	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	ug/L	10/29/97	--	--	ND	--	ND	ND	--	--	--	--	--	--	--	--	ND	--
	ug/L	05/14/98	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	ug/L	10/11/98	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	ug/L	06/04/99	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	ug/L	10/29/99	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	ug/L	04/20/00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	ug/L	11/07/00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	ug/L	02/27/01	--	--	--	--	--	--	--	--	--	--	ND	ND	ND	ND	--	--
	ug/L	05/15/01	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	ug/L	10/16/01	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	ug/L	04/24/02	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	ug/L	10/01/02	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	ug/L	04/09/03	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	ug/L	10/20/03	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	ug/L	03/24/04	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	ug/L	10/27/04	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	ug/L	05/25/05	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	ug/L	10/04/05	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	ug/L	04/25/06	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	ug/L	10/04/06	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	ND
	ug/L	03/21/07	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	ND
	ug/L	10/02/07	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	ND
	ug/L	04/03/08	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	ND
	ug/L	10/29/08	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	ND
	ug/L	03/24/09	1.1	100	ND	ND	1.4 J	5.4 J	1.3 J	2.0 J	1.5 J	ND	--	--	--	--	ND	ND
	ug/L	09/22/09	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	ug/L	03/22/10	2.10	100	ND	Dry	ND	2.38 J	--	--	--	--	--	--	--	--	--	ND
	ug/L	09/23/10	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	ug/L	03/16/11	2.10	100	2.50 J	3.17 J	5.65 J	7.24 J	--	--	--	--	--	--	--	--	--	ND
	ug/L	09/21/11	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	ug/L	03/21/12	2.10	100	ND	3.86 J	3.42 J	4.51 J	--	--	--	--	--	--	--	--	--	ND
	ug/L	09/20/12	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	ug/L	03/20/13	2.10	100	ND	3.86 J	3.79 J	6.88 J	--	--	--	--	--	--	--	--	--	ND
	ug/L	09/18/13	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	ug/L	03/27/14	2.10	100	ND	ND	ND	ND	--	--	--	--	--	--	--	--	--	ND
	ug/L	09/18/14	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	ug/L	03/18/15	2.10	100	ND	ND	ND	ND	--	--	--	--	--	--	--	--	--	ND
Vanadium	ug/L	12/05/94	--	25	ND	ND	ND	ND	--	--	--	--	--	--	--	--	ND	--
SWS GPS = 0.3 ug/L	ug/L	02/14/95	--	25	ND	ND	ND	ND	--	--	--	--	--	--	--	--	ND	--
EPA MCL = No Standard	ug/L	04/03/95	--	25	ND	ND	ND	ND	--	--	--	--	--	--	--	--	ND	--
	ug/L	10/30/95	--	25	ND	ND	ND	ND	--	--	--	--	--	--	--	--	ND	--
	ug/L	04/08/96	--	25	ND	ND	ND	ND	--	--	--	--	--	--	--	--	ND	--
	ug/L	10/24/96	--	25	ND	--	ND	ND	--	--	--	--	--	--	--	--	ND	--
	ug/L	04/15/97	--	25	**13**	--	ND	**5**	--	--	--	--	--	--	--	--	**6**	--
	ug/L	10/29/97	--	25	ND	ND	ND	ND	--	--	--	--	--	--	--	--	ND	--
	ug/L	05/14/98	--	25	ND	ND	ND	ND	--	--	--	--	--	--	--	--	ND	--
	ug/L	10/11/98	--	25	ND	ND	ND	ND	--	--	--	--	--	--	--	--	ND	--
	ug/L	06/04/99	--	25	ND	ND	ND	ND	--	--	--	--	--	--	--	--	ND	--
	ug/L	10/29/99	--	25	ND	ND	ND	ND	--	--	--	--	--	--	--	--	ND	--
	ug/L	04/20/00	--	25	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	ND	--
	ug/L	11/07/00	--	25	ND	ND	ND	ND	--	--	--	--	--	--	--	--	ND	--
	ug/L	02/27/01	--	25	--	--	--	--	--	--	--	--	ND	ND	ND	ND	--	--
	ug/L	05/15/01	--	25	ND	ND	ND	ND	--	--	--	--	--	--	--	--	ND	--
	ug/L	10/16/01	--	25	ND	ND	ND	ND	--	ND	--	--	--	--	--	--	ND	--
	ug/L	04/24/02	--	25	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	ND	--
	ug/L	10/01/02	--	25	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	ND	--
	ug/L	04/09/03	--	25	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	ND	--
	ug/L	10/20/03	--	25	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	ND	--
	ug/L	03/24/04	--	25	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	ND	--
	ug/L	10/27/04	--	25	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	ND	--
	ug/L	05/25/05	--	25	ND	ND	ND	--	ND	ND	--	--	--	--	--	--	ND	--
	ug/L	10/04/05	--	25	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	ND	--
	ug/L	04/25/06	--	25	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	ND	--
	ug/L	10/04/06	--	25	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	ND	ND
	ug/L	03/21/07	--	25	**3.81 J**	**4.21 J**	ND	**1.31 J**	ND	ND	--	--	--	--	--	--	ND	ND
	ug/L	10/02/07	--	25	**17.1 J**	**12.9 J**	**5.6 J**	ND	ND	ND	--	--	--	--	--	--	ND	ND
	ug/L	04/03/08	--	25	**9.73 J**	**10.7 J**	ND	ND	ND	ND	ND	**5.13 J**	**6.75 J**	ND	ND	--	ND	ND
	ug/L	10/29/08	--	25	**4.88 J**	**88.9**	**10.3 J**	**0.52 J**	**1.37 J**	**3.74 J**	**0.86 J**	ND	--	--	--	--	ND	ND
	ug/L	03/24/09	0.7	25	**2.2 J**	**3.2 J**	**1.7 J**	**9.0 J**	ND	ND	**3.0 J**	**0.9 J**	--	--	--	--	**0.7 J**	ND
	ug/L	09/22/09	1.40	25	**3.31 J**	**1.97 J**	ND	**5.45 J**	ND	ND	**6.35 J**	**1.52 J**	ND	**1.90 J**	ND	--	--	ND
	ug/L	03/22/10	1.40	25	**1.75 J**	Dry	ND	**1.76 J**	ND	ND	**1.78 J**	**1.42 J**	--	--	--	**2.70 J**	--	ND
	ug/L	09/23/10	1.40	25	ND	ND	ND	**14.7 J**	ND	ND	**4.79 J**	ND	--	--	--	--	--	ND
	ug/L	03/16/11	1.40	25	**4.98 J**	**2.77 J**	ND	ND	ND	ND	**15.3 J**	ND	--	--	--	--	--	ND
	ug/L	09/21/11	1.40	25	**2.21 J**	**8.14 J**	**2.88 J**	**17.3 J**	ND	ND	**11.1 J**	ND	--	--	--	--	--	ND
	ug/L	03/21/12	1.40	25	**4.72 J**	ND	ND	ND	ND	ND	**1.70 J**	ND	--	--	--	--	ND	ND
	ug/L	09/20/12	1.40	25	**1.79 J**	**1.77 J**	ND	**4.28 J**	ND	ND	**3.65 J**	ND	--	--	--	--	--	ND
	ug/L	03/20/13	1.40	25	**5.60 J**	**2.36 J**	ND	**2.47 J**	ND	ND	ND	ND	--	--	--	--	ND	ND
	ug/L	09/18/13	1.40	25	**2.71 J**	**12.4 J**	ND	ND	ND	ND	**9.96 J**	ND	--	--	--	--	--	ND
	ug/L	03/27/14	1.40	25	ND	**1.93 J**	ND	ND	ND	ND	**5.88 J**	ND	--	--	--	--	ND	ND
	ug/L	09/18/14	1.40	25	ND	ND	ND	ND	ND	ND	**4.57 J**	ND	--	--	--	--	--	ND
	ug/L	03/18/15	1.40	25	ND	ND	ND	ND	ND	ND	**7.02 J**	ND	--	--	--	--	**1.53 J**	ND

TABLE 7

Summary of Detected Constituents in MSW Monitoring Wells
Henderson County Closed MSW Landfill, Permit No. 45-01

Detected Monitoring Constituent/Parameter	Units	Date	MDL	SWS Reporting Limit	Upgradient Compliance Well	Downgradient Compliance Wells			Assessment Wells				Non-Compliance Wells				TVA Well	Blanks
					MW-5	MW-6	MW-7	MW-8	AMW-1S	AMW-1D	AMW-2S	AMW-2D	Old MW-1	MW-1	Old MW-2	MW-2	MW-9	
Zinc	ug/L	12/05/94	--	10	21	ND	33	20	--	--	--	--	--	--	--	--	82	--
NC 2L = 1000 ug/L	ug/L	02/14/95	--	10	33	44	29	69	--	--	--	--	--	--	--	--	113	--
EPA MCL = 5000 ug/L*	ug/L	04/03/95	--	10	29	48	26	29	--	--	--	--	--	--	--	--	20	--
	ug/L	10/30/95	--	10	25	30	ND	ND	--	--	--	--	--	--	--	--	23	--
	ug/L	04/08/96	--	10	44	63	22	67	--	--	--	--	--	--	--	--	36	--
	ug/L	10/24/96	--	10	37	--	22	18	--	--	--	--	--	--	--	--	39	--
	ug/L	04/15/97	--	10	50	--	50	30	--	--	--	--	--	--	--	--	40	--
	ug/L	10/29/97	--	10	ND	340	ND	ND	--	--	--	--	--	--	--	--	ND	--
	ug/L	05/14/98	--	10	ND	ND	ND	ND	--	--	--	--	--	--	--	--	ND	--
	ug/L	10/11/98	--	10	ND	ND	ND	ND	--	--	--	--	--	--	--	--	ND	--
	ug/L	06/04/99	--	10	ND	ND	ND	ND	--	--	--	--	--	--	--	--	ND	--
	ug/L	10/29/99	--	10	ND	ND	ND	ND	--	--	--	--	--	--	--	--	ND	--
	ug/L	04/20/00	--	10	ND	ND	ND	ND	20.6	--	--	--	--	--	--	--	ND	--
	ug/L	11/07/00	--	10	ND	ND	ND	ND	--	--	--	--	--	--	--	--	ND	--
	ug/L	02/27/01	--	10	--	--	--	--	--	--	--	--	ND	ND	ND	ND	--	--
	ug/L	05/15/01	--	10	ND	ND	ND	ND	--	--	--	--	--	--	--	--	ND	--
	ug/L	10/16/01	--	10	ND	ND	ND	ND	--	ND	--	--	--	--	--	--	ND	--
	ug/L	04/24/02	--	10	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	ND	--
	ug/L	10/01/02	--	10	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	ND	--
	ug/L	04/09/03	--	10	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	ND	--
	ug/L	10/20/03	--	10	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	ND	--
	ug/L	03/24/04	--	10	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	ND	--
	ug/L	10/27/04	--	10	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	ND	--
	ug/L	05/25/05	--	10	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	ND	--
	ug/L	10/04/05	--	10	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	ND	--
	ug/L	04/25/06	--	10	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	ND	--
	ug/L	10/04/06	--	10	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	ND	ND
	ug/L	03/21/07	--	10	15.6 J	124	6.92 J	10.1 J	12.1 J	3.82 J	--	--	--	--	--	--	7.14 J	ND
	ug/L	10/02/07	--	10	44	49.1	12.6 J	5.43 J	6.23 J	ND	--	--	--	--	--	--	4.53 J	ND
	ug/L	04/03/08	--	10	31.9	46	5.82 J	10.4	4.83 J	4.06 J	14.1	27.7	12.5	16.2	46.7	--	5.53 J	ND
	ug/L	10/29/08	--	10	20.1	380	29.0	6.90 J	5.37 J	ND	5.37 J	ND	--	--	--	--	6.63 J	ND
	ug/L	03/24/09	3.4	10	10.7 B	56.3	9.3 B	38.3	4.1 B	3.4 B	7.7 B	ND	--	--	--	--	4.1 B	3.4 J
	ug/L	09/22/09	3.80	10	13.8	12.3	4.56 J	12.8	7.02 J	5.92 J	18.0	8.77 J	5.43 J	5.88 J	37.8	--	--	ND
	ug/L	03/22/10	3.80	10	9.18 J	Dry	8.52 J	36.7	15.6	7.21 J	11.2	7.25 J	--	--	--	20.1	--	ND
	ug/L	09/23/10	3.80	10	ND	ND	5.37 J	168	4.30 J	5.86 J	ND	ND	--	--	--	--	--	ND
	ug/L	03/16/11	3.80	10	17.6	36.7	7.03 J	611	4.64 J	17.5	44.8	4.77 J	--	--	--	--	--	ND
	ug/L	09/21/11	3.80	10	9.32 J	44.1	9.85 J	430	4.44 J	11.7	14.2	4.57 J	--	--	--	--	--	ND
	ug/L	03/21/12	3.80	10	14.9	28.8	ND	48.3	ND	6.06 J	ND	ND	--	--	--	--	ND	ND
	ug/L	09/20/12	3.80	10	5.18 J	6.60 J	ND	173	6.69 J	5.19 J	4.68 J	3.87 J	--	--	--	--	--	ND
	ug/L	03/20/13	3.80	10	21.3	12.5	6.76 J	60.1	9.19 J	6.32 J	ND	5.00 J	--	--	--	--	12.0	ND
	ug/L	09/18/13	3.80	10	12.0	45.7	5.04 J	40.5	4.40 J	ND	27.3	ND	--	--	--	--	--	ND
	ug/L	03/27/14	3.80	10	ND	11.3	ND	79.6	4.19 J	4.92 J	8.80 J	ND	--	--	--	--	ND	ND
	ug/L	09/18/14	3.80	10	ND	8.37 J	ND	16.8	ND	22.7	ND	ND	--	--	--	--	--	ND
	ug/L	03/18/15	3.80	10	5.35 J	7.19 J	9.75 J	21.7	4.58 J	6.15 J	6.87 J	ND	--	--	--	--	12.2	ND
Acetone	ug/L	12/05/94	100	100	ND	ND	ND	ND	--	--	--	--	--	--	--	--	ND	--
NC 2L = 6000 ug/L	ug/L	02/14/95	100	100	ND	ND	ND	ND	--	--	--	--	--	--	--	--	ND	--
EPA MCL = No Standard	ug/L	04/03/95	100	100	ND	ND	ND	ND	--	--	--	--	--	--	--	--	ND	--
	ug/L	10/30/95	100	100	ND	50	ND	ND	--	--	--	--	--	--	--	--	ND	--
	ug/L	04/08/96	100	100	ND	98	ND	ND	--	--	--	--	--	--	--	--	ND	--
	ug/L	10/24/96	--	100	ND	--	ND	ND	--	--	--	--	--	--	--	--	ND	--
	ug/L	04/15/97	--	100	ND	--	ND	ND	--	--	--	--	--	--	--	--	ND	--
	ug/L	10/29/97	--	100	ND	95	ND	ND	--	--	--	--	--	--	--	--	ND	--
	ug/L	05/14/98	--	100	ND	330	ND	ND	--	--	--	--	--	--	--	--	ND	--
	ug/L	11/11/98	--	100	ND	ND	ND	ND	--	--	--	--	--	--	--	--	ND	--
	ug/L	06/04/99	--	100	ND	780	ND	ND	--	--	--	--	--	--	--	--	ND	--
	ug/L	10/29/99	--	100	ND	ND	ND	ND	--	--	--	--	--	--	--	--	ND	--
	ug/L	04/20/00	--	100	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	ND	--
	ug/L	11/07/00	--	100	ND	190	ND	ND	--	--	--	--	--	--	--	--	ND	--
	ug/L	02/27/01	--	100	--	--	--	--	--	--	--	--	ND	ND	ND	ND	--	--
	ug/L	05/15/01	--	100	ND	ND	ND	ND	--	--	--	--	--	--	--	--	ND	--
	ug/L	10/16/01	100	100	ND	ND	ND	ND	--	ND	--	--	--	--	--	--	ND	--
	ug/L	04/25/02	100	100	ND	190	ND	ND	ND	ND	--	--	--	--	--	--	ND	--
	ug/L	10/01/02	100	100	ND	280	ND	ND	ND	ND	--	--	--	--	--	--	ND	--
	ug/L	04/09/03	100	100	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	ND	--
	ug/L	10/21/03	100	100	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	ND	--
	ug/L	03/25/04	100	100	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	ND	--
	ug/L	10/27/04	100	100	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	ND	--
	ug/L	05/25/05	100	100	ND	ND	ND	--	ND	ND	--	--	--	--	--	--	ND	--
	ug/L	10/06/05	100	100	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	ND	--
	ug/L	04/26/06	100	100	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	ND	--
	ug/L	10/04/06	100	100	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	ND	ND
	ug/L	03/22/07	100	100	ND	ND	4.34 J	ND	ND	ND	--	--	--	--	--	--	ND	ND
	ug/L	10/02/07	100	100	ND	9.81 B	ND	ND	1.76 B	ND	--	--	--	--	--	--	ND	5.5 J
	ug/L	04/03/08	100	100	ND	10.1 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	ND	ND
	ug/L	10/30/08	100	100	ND	13.8 J	ND	ND	7.95 J	ND	ND	ND	--	--	--	--	ND	ND
	ug/L	03/24/09	1.5	100	ND	280	ND	ND	ND	ND	ND	ND	--	--	--	--	ND	ND
	ug/L	09/22/09	1.5	100	ND	9.0 J	13 J	ND	ND	ND	ND	ND	ND	ND	ND	--	--	ND
	ug/L	03/22/10	1.5	100	ND	Dry	55 J	ND	ND	ND	ND	ND	--	--	--	9.5 J	--	ND
	ug/L	09/23/10	1.5	100	ND	8.7 J	ND	ND	ND	ND	ND	ND	--	--	--	--	--	ND
	ug/L	03/16/11	1.2	100	ND	16 J	ND	ND	ND	ND	ND	ND	--	--	--	--	--	ND
	ug/L	09/21/11	1.2	100	ND	310	ND	ND	ND	ND	ND	ND	--	--	--	--	--	ND
	ug/L	03/21/12	1.2	100	ND	2700	3.6 J	13 J	ND	ND	ND	ND	--	--	--	--	ND	ND
	ug/L	09/20/12	1.2	100	ND	ND	ND	5.4 B	ND	ND	ND	ND	--	--	--	--	--	7.0 J
	ug/L	03/20/13	1.2	100	ND	21 J	ND	ND	ND	ND	ND	ND	--	--	--	--	ND	ND
	ug/L	09/18/13	1.2	100	ND	34 J	ND	ND	ND	ND	ND	ND	--	--	--	--	--	ND
	ug/L	03/27/14	1.2	100	ND	77 B	ND	6.2 B	ND	ND	ND	ND	--	--	--	--	ND	19 J
	ug/L	09/18/14	1.2	100	ND	24 J	ND	ND	ND	ND	ND	ND	--	--	--	--	--	ND
	ug/L	03/18/15	1.2	100	ND	29 J	ND	ND	ND	ND	ND	ND	--	--	--	--	ND	ND
Acrylonitrile	ug/L	12/05/94	1	200	ND	ND	ND	ND	--	--	--	--	--	--	--	--	ND	--
SWS GPS / NC 2L = No Standard	ug/L	02/14/95	100	200	ND	ND	ND	ND	--	--	--	--	--	--	--	--	ND	--
EPA MCL = No Standard	ug/L	04/03/95	100	200	ND	ND	ND	ND	--	--	--	--	--	--	--	--	ND	--
	ug/L	10/30/95	100	200	ND	ND	ND	ND	--	--	--	--	--	--	--	--	ND	--
	ug/L	04/08/96	100	200	ND	ND	ND	ND	--	--	--	--	--	--	--	--	ND	--
	ug/L	10/24/96	--	200	ND	--	ND	ND	--	--	--	--	--	--	--	--	ND	--
	ug/L	04/15/97	--	200	ND	--	ND	ND	--	--	--	--	--	--	--	--	ND	--
	ug/L	10/29/97	--	200	ND	ND	ND	ND	--	--	--	--	--	--	--	--	ND	--
	ug/L	05/14/98	--	200	ND	ND	ND	ND	--	--	--	--	--	--	--	--	ND	--
	ug/L	10/11/98	--	200	ND	ND	ND	ND	--	--	--	--	--	--	--	--	ND	--
	ug/L	06/04/99	--	200	ND	ND	ND	ND	--	--	--	--	--	--	--	--	ND	--
	ug/L	10/29/99	--	200	ND	ND	ND	ND	--	--	--	--	--	--	--	--	ND	--
	ug/L	04/20/00	--	200	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	ND	--
	ug/L	11/07/00	--	200	ND	ND	ND	ND	--	--	--	--	--	--	--	--	ND	--
	ug/L	02/27/01	--	200	--	--	--	--	--	--	--	--	ND	ND	ND	ND	--	--
	ug/L	05/15/01	--	200	ND	ND	ND	ND	--	--	--	--	--	--	--	--	ND	--
	ug/L	10/16/01	--	200	ND	ND	ND	ND	--	ND	--	--	--	--	--	--	ND	--
	ug/L	04/24/02	--	200	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	ND	--
	ug/L	10/01/02	100	200	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	ND	--
	ug/L	04/09/03	100	200	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	ND	--
	ug/L	10/20/03	100	200	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	ND	--
	ug/L	03/24/04	100	200	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	ND	--
	ug/L	10/27/04	100	200	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	ND	--
	ug/L	05/25/05	100	200	ND	ND	ND	--	ND	ND	--	--	--	--	--	--	ND	--
	ug/L	10/04/05	100	200	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	ND	--
	ug/L	04/25/06	100	200	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	ND	--
	ug/L	10/04/06	100	200	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	ND	ND
	ug/L	03/21/07	100	200	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	ND	ND
	ug/L	10/02/07	100	200	ND	ND	ND	17.9 J	ND	ND	--	--	--	--	--	--	ND	ND
	ug/L	04/03/08	100	200	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	ND	ND
	ug/L	10/29/08	100	200	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	ND	ND
	ug/L	03/24/09	2.1	200	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	ND	ND
	ug/L	09/22/09	2.1	200	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	--	ND
	ug/L	03/22/10	2.1	200	ND	Dry	ND	ND	ND	ND	ND	ND	--	--	--	ND	--	ND
	ug/L	09/23/10	2.1	200	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	--	ND
	ug/L	03/16/11	3.5	200	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	--	ND
	ug/L	09/21/11	3.5	200	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	--	ND
	ug/L	03/21/12	3.5	200	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	ND	ND
	ug/L	09/20/12	3.5	200	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	--	ND
	ug/L	03/20/13	3.5	200	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	ND	ND
	ug/L	09/18/13	3.5	200	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	--	ND
	ug/L	03/27/14	3.5	200	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	ND	ND
	ug/L	09/18/14	3.5	200	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	--	ND
	ug/L	03/18/15	3.5	200	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	ND	ND
Benzene	ug/L	12/05/94	5	5	ND	**11**	ND	ND	--	--	--	--	--	--	--	--	ND	--
NC 2L = 1 ug/L	ug/L	02/14/95	5	5	ND	**11**	ND	ND	--	--	--	--	--	--	--	--	ND	--
EPA MCL = 5 ug/L	ug/L	04/03/95	5	5	ND	**8**	ND	ND	--	--	--	--	--	--	--	--	ND	--
	ug/L	10/30/95	5	5	ND	ND	ND	ND	--	--	--	--	--	--	--	--	ND	--
	ug/L	04/08/96	5	5	ND	**9**	**3.9**	ND	--	--	--	--	--	--	--	--	ND	--
	ug/L	10/24/96	5	5	ND	--	**5**	ND	--	--	--	--	--	--	--	--	ND	--
	ug/L	04/15/97	5	5	ND	--	**6.9**	ND	--	--	--	--	--	--	--	--	ND	--
	ug/L	10/29/97	--	5	ND	**5**	**6**	ND	--	--	--	--	--	--	--	--	ND	--
	ug/L	05/14/98	--	5	ND	**8**	**6**	ND	--	--	--	--	--	--	--	--	ND	--
	ug/L	10/11/98	--	5	ND	ND	**7**	ND	--	--	--	--	--	--	--	--	ND	--
	ug/L	06/04/99	--	5	ND	**8**	**6**	ND	--	--	--	--	--	--	--	--	ND	--
	ug/L	10/29/99	--	5	ND	ND	ND	ND	--	--	--	--	--	--	--	--	ND	--
	ug/L	04/20/00	--	5	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	ND	--
	ug/L	11/07/00	--	5	ND	ND	ND	ND	--	--	--	--	--	--	--	--	ND	--
	ug/L	02/27/01	--	5	--	--	--	--	--	--	--	--	ND	ND	ND	ND	--	--
	ug/L	05/15/01	--	5	ND	ND	ND	ND	--	--	--	--	--	--	--	--	ND	--
	ug/L	10/16/01	--	5	ND	ND	ND	ND	--	ND	--	--	--	--	--	--	ND	--
	ug/L	04/24/02	--	5	ND	**6**	ND	ND	ND	ND	--	--	--	--	--	--	ND	--
	ug/L	10/01/02	--	5	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	ND	--
	ug/L	04/09/03	--	5	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	ND	--
	ug/L	10/20/03	--	5	ND	**7**	ND	ND	ND	ND	--	--	--	--	--	--	ND	--
	ug/L	03/24/04	5	5	ND	**6**	ND	ND	ND	ND	--	--	--	--	--	--	ND	--
	ug/L	10/27/04	5	5	ND	**7.19**	ND	ND	ND	ND	--	--	--	--	--	--	ND	--
	ug/L	05/25/05	5	5	ND	ND	ND	--	ND	ND	--	--	--	--	--	--	ND	--
	ug/L	10/04/05	5	5	ND	**7.61**	ND	ND	ND	ND	--	--	--	--	--	--	ND	--
	ug/L	04/25/06	5	5	ND	**6.23**	ND	ND	ND	ND	--	--	--	--	--	--	ND	--
	ug/L	10/04/06	5	5	ND	**6.8**	ND	ND	ND	ND	--	--	--	--	--	--	ND	ND
	ug/L	03/21/07	5	5	ND	**1.36**	**2.48**	**3.55**	0.44 J	**1.52**	--	--	--	--	--	--	ND	ND
	ug/L	10/02/07	5	5	ND	**5.47**	**1.70**	**4.99**	**1.68**	**1.55**	--	--	--	--	--	--	ND	ND
	ug/L	04/03/08	5	5	ND	0.37 J	**1.57**	**5.82**	0.98 J	**1.48**	**1.28**	ND	0.460 J	ND	0.880 J	--	ND	ND
	ug/L	10/29/08	5	5	ND	**3.08**	**1.51**	**6.23**	**2.13**	**1.49**	**1.25**	ND	--	--	--	--	ND	ND
	ug/L	03/24/09	0.20	1	ND	ND	ND	0.64 J	ND	ND	ND	ND	--	--	--	--	ND	ND
	ug/L	09/22/09	0.20	1	ND	ND	**1.4**	**4.2**	0.44 J	**1.3**	**1.2**	ND	0.41 J	ND	ND	--	--	ND
	ug/L	03/22/10	0.050	1	ND	Dry	**1.4**	ND	ND	**1.1**	0.75 J	ND	--	--	--	0.91 J	--	ND
	ug/L	09/23/10	0.20	1	ND	0.98 J	ND	ND	ND	ND	ND	ND	--	--	--	--	--	ND
	ug/L	03/16/11	0.68	1	ND	ND	**1.6**	ND	ND	**1.2**	0.96 J	ND	--	--	--	--	--	ND
	ug/L	09/21/11	0.68	1	ND	**4.6**	**1.4**	0.85 J	ND	**1.2**	0.82 J	ND	--	--	--	--	--	ND
	ug/L	03/21/12	0.15	1	ND	ND	**1.1**	0.65 J	0.73 J	0.95 J	0.82 J	ND	--	--	--	--	ND	ND
	ug/L	09/20/12	0.15	1	ND	ND	0.94 J	ND	ND	ND	ND	ND	--	--	--	--	--	ND
	ug/L	03/20/13	0.15	1	ND	ND	**1.5**	**3.0**	ND	**1.2**	**1.2**	ND	--	--	--	--	ND	ND
	ug/L	09/18/13	0.15	1	ND	**2.9**	**1.7**	0.89 J	0.56 J	**1.1**	0.86 J	ND	--	--	--	--	--	ND
	ug/L	03/27/14	0.15	1	ND	ND	**1.6**	ND	ND	ND	ND	ND	--	--	--	--	ND	ND
	ug/L	09/18/14	0.15	1	ND	**4.6**	**1.1**	ND	ND	**1.1**	0.58 J	ND	--	--	--	--	--	ND
	ug/L	03/18/15	0.15	1	ND	ND	**1.3**	ND	ND	**1.2**	0.60 J	ND	--	--	--	--	ND	ND

TABLE 7

Summary of Detected Constituents in MSW Monitoring Wells
Henderson County Closed MSW Landfill, Permit No. 45-01

Detected Monitoring Constituent/Parameter	Units	Date	MDL	SWS Reporting Limit	Upgradient Compliance Well	Downgradient Compliance Wells			Assessment Wells				Non-Compliance Wells				TVA Well	Blanks
					MW-5	MW-6	MW-7	MW-8	AMW-1S	AMW-1D	AMW-2S	AMW-2D	Old MW-1	MW-1	Old MW-2	MW-2	MW-9	
Carbon disulfide	ug/L	02/14/95	5	100	ND	ND	ND	ND	--	--	--	--	--	--	--	--	ND	--
NC 2L = 700 ug/L	ug/L	04/03/95	5	100	ND	ND	ND	ND	--	--	--	--	--	--	--	--	ND	--
EPA MCL = No Standard	ug/L	10/30/95	5	100	ND	ND	ND	ND	--	--	--	--	--	--	--	--	ND	--
	ug/L	12/05/95	0.4	100	ND	ND	ND	ND	--	--	--	--	--	--	--	--	ND	--
	ug/L	04/08/96	5	100	ND	ND	ND	ND	--	--	--	--	--	--	--	--	ND	--
	ug/L	10/24/96	5	100	ND	--	ND	ND	--	--	--	--	--	--	--	--	ND	--
	ug/L	04/15/97	5	100	ND	--	ND	ND	--	--	--	--	--	--	--	--	ND	--
	ug/L	10/29/97	--	100	ND	15	ND	ND	--	--	--	--	--	--	--	--	ND	--
	ug/L	05/14/98	--	100	ND	ND	ND	ND	--	--	--	--	--	--	--	--	ND	--
	ug/L	10/11/98	--	100	ND	ND	ND	ND	--	--	--	--	--	--	--	--	ND	--
	ug/L	06/04/99	--	100	ND	ND	ND	ND	--	--	--	--	--	--	--	--	ND	--
	ug/L	10/29/99	--	100	ND	ND	ND	ND	--	--	--	--	--	--	--	--	ND	--
	ug/L	04/20/00	--	100	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	ND	--
	ug/L	11/07/00	--	100	ND	ND	ND	ND	--	--	--	--	--	--	--	--	ND	--
	ug/L	02/27/01	--	100	--	--	--	--	--	--	--	--	ND	ND	ND	ND	--	--
	ug/L	05/15/01	--	100	ND	ND	ND	ND	--	--	--	--	--	--	--	--	ND	--
	ug/L	10/16/01	--	100	ND	ND	ND	ND	--	ND	--	--	--	--	--	--	ND	--
	ug/L	04/24/02	--	100	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	ND	--
	ug/L	10/01/02	--	100	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	ND	--
	ug/L	04/09/03	--	100	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	ND	--
	ug/L	10/20/03	--	100	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	ND	--
	ug/L	03/24/04	5	100	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	ND	--
	ug/L	10/27/04	5	100	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	ND	--
	ug/L	05/25/05	5	100	ND	ND	ND	--	ND	ND	--	--	--	--	--	--	ND	--
	ug/L	10/04/05	5	100	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	ND	--
	ug/L	04/25/06	5	100	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	ND	--
	ug/L	10/04/06	5	100	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	ND	ND
	ug/L	03/21/07	5	100	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	ND	ND
	ug/L	10/02/07	5	100	ND	ND	ND	0.14 J	ND	ND	--	--	--	--	--	--	ND	ND
	ug/L	04/03/08	5	100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	ND	ND
	ug/L	10/29/08	5	100	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	ND	ND
	ug/L	03/24/09	0.54	100	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	ND	ND
	ug/L	09/22/09	0.54	100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	--	ND
	ug/L	03/22/10	0.54	100	ND	Dry	ND	ND	ND	ND	ND	ND	--	--	--	ND	--	ND
	ug/L	09/23/10	0.54	100	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	--	ND
	ug/L	03/16/11	1.5	100	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	--	ND
	ug/L	09/21/11	1.5	100	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	--	ND
	ug/L	03/21/12	1.5	100	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	ND	ND
	ug/L	09/20/12	1.5	100	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	--	ND
	ug/L	03/20/13	1.5	100	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	ND	ND
	ug/L	09/18/13	1.5	100	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	--	ND
	ug/L	03/27/14	1.5	100	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	ND	ND
	ug/L	09/18/14	1.5	100	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	--	ND
	ug/L	03/18/15	1.5	100	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	ND	ND
Carbon tetrachloride	ug/L	02/14/95	5	1	ND	ND	ND	ND	--	--	--	--	--	--	--	--	ND	--
NC 2L = 0.3 ug/L	ug/L	04/03/95	5	1	ND	ND	ND	ND	--	--	--	--	--	--	--	--	ND	--
EPA MCL = 5 ug/L	ug/L	10/30/95	5	1	ND	ND	ND	ND	--	--	--	--	--	--	--	--	ND	--
	ug/L	12/05/95	0.35	1	ND	ND	ND	ND	--	--	--	--	--	--	--	--	ND	--
	ug/L	04/08/96	5	1	ND	ND	ND	**2**	--	--	--	--	--	--	--	--	ND	--
	ug/L	10/24/96	5	1	ND	--	ND	ND	--	--	--	--	--	--	--	--	ND	--
	ug/L	04/15/97	5	1	ND	--	ND	ND	--	--	--	--	--	--	--	--	ND	--
	ug/L	10/29/97	--	1	ND	ND	ND	ND	--	--	--	--	--	--	--	--	ND	--
	ug/L	05/14/98	--	1	ND	ND	ND	ND	--	--	--	--	--	--	--	--	ND	--
	ug/L	10/11/98	--	1	ND	ND	ND	ND	--	--	--	--	--	--	--	--	ND	--
	ug/L	06/04/99	--	1	ND	ND	ND	ND	--	--	--	--	--	--	--	--	ND	--
	ug/L	10/29/99	--	1	ND	ND	ND	ND	--	--	--	--	--	--	--	--	ND	--
	ug/L	04/20/00	--	1	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	ND	--
	ug/L	11/07/00	--	1	ND	ND	ND	ND	--	--	--	--	--	--	--	--	ND	--
	ug/L	02/27/01	--	1	--	--	--	--	--	--	--	--	ND	ND	ND	ND	--	--
	ug/L	05/15/01	--	1	ND	ND	ND	ND	--	--	--	--	--	--	--	--	ND	--
	ug/L	10/16/01	--	1	ND	ND	ND	ND	--	ND	--	--	--	--	--	--	ND	--
	ug/L	04/24/02	--	1	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	ND	--
	ug/L	10/01/02	--	1	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	ND	--
	ug/L	04/09/03	--	1	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	ND	--
	ug/L	10/20/03	--	1	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	ND	--
	ug/L	03/24/04	5	1	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	ND	--
	ug/L	10/27/04	5	1	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	ND	--
	ug/L	05/25/05	5	1	ND	ND	ND	--	ND	ND	--	--	--	--	--	--	ND	--
	ug/L	10/04/05	5	1	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	ND	--
	ug/L	04/25/06	5	1	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	ND	--
	ug/L	10/04/06	5	1	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	ND	ND
	ug/L	03/21/07	5	1	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	ND	ND
	ug/L	10/02/07	5	1	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	ND	ND
	ug/L	04/03/08	5	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	ND	ND
	ug/L	10/29/08	--	1	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	ND	ND
	ug/L	03/24/09	0.38	1	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	ND	ND
	ug/L	09/22/09	0.38	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	--	ND
	ug/L	03/22/10	0.082	1	ND	Dry	ND	ND	ND	ND	ND	ND	--	--	--	ND	--	ND
	ug/L	09/23/10	0.38	1	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	--	ND
	ug/L	03/16/11	0.69	1	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	--	ND
	ug/L	09/21/11	0.69	1	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	--	ND
	ug/L	03/21/12	0.17	1	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	ND	ND
	ug/L	09/20/12	0.17	1	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	--	ND
	ug/L	03/20/13	0.17	1	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	ND	ND
	ug/L	09/18/13	0.17	1	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	--	ND
	ug/L	03/27/14	0.17	1	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	ND	ND
	ug/L	09/18/14	0.17	1	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	--	ND
	ug/L	03/18/15	0.17	1	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	ND	ND
Chlorobenzene	ug/L	12/05/94	5	5	ND	ND	ND	ND	--	--	--	--	--	--	--	--	ND	--
NC 2L = 50 ug/L	ug/L	02/14/95	5	5	ND	ND	ND	ND	--	--	--	--	--	--	--	--	ND	--
EPA MCL = 100 ug/L	ug/L	04/03/95	5	5	ND	ND	ND	ND	--	--	--	--	--	--	--	--	ND	--
	ug/L	10/30/95	5	5	ND	ND	ND	ND	--	--	--	--	--	--	--	--	ND	--
	ug/L	04/08/96	5	5	ND	ND	ND	ND	--	--	--	--	--	--	--	--	ND	--
	ug/L	10/24/96	--	5	ND	--	ND	ND	--	--	--	--	--	--	--	--	ND	--
	ug/L	04/15/97	--	5	ND	--	ND	ND	--	--	--	--	--	--	--	--	ND	--
	ug/L	10/29/97	--	5	ND	7	3	ND	--	--	--	--	--	--	--	--	ND	--
	ug/L	05/14/98	--	5	ND	ND	ND	ND	--	--	--	--	--	--	--	--	ND	--
	ug/L	10/11/98	--	5	ND	8	ND	ND	--	--	--	--	--	--	--	--	ND	--
	ug/L	06/04/99	--	5	ND	7	ND	ND	--	--	--	--	--	--	--	--	ND	--
	ug/L	10/29/99	--	5	ND	ND	ND	ND	--	--	--	--	--	--	--	--	ND	--
	ug/L	04/20/00	--	5	ND	ND	ND	ND	8	--	--	--	--	--	--	--	ND	--
	ug/L	11/07/00	--	5	ND	7	ND	ND	--	--	--	--	--	--	--	--	ND	--
	ug/L	02/27/01	--	5	--	--	--	--	--	--	--	--	ND	ND	ND	ND	--	--
	ug/L	05/15/01	--	5	ND	6	ND	ND	--	--	--	--	--	--	--	--	ND	--
	ug/L	10/16/01	--	5	ND	7	ND	ND	--	ND	--	--	--	--	--	--	ND	--
	ug/L	04/24/02	--	5	ND	6	ND	ND	7	ND	--	--	--	--	--	--	ND	--
	ug/L	10/01/02	--	5	ND	8	ND	ND	ND	ND	--	--	--	--	--	--	ND	--
	ug/L	04/09/03	--	5	ND	ND	ND	ND	6	ND	--	--	--	--	--	--	ND	--
	ug/L	10/20/03	5	5	ND	10	ND	ND	ND	ND	--	--	--	--	--	--	ND	--
	ug/L	03/24/04	5	5	ND	11	ND	ND	ND	ND	--	--	--	--	--	--	ND	--
	ug/L	10/27/04	5	5	ND	13	5	ND	ND	ND	--	--	--	--	--	--	ND	--
	ug/L	05/25/05	5	5	ND	ND	6	--	6.12	ND	--	--	--	--	--	--	ND	--
	ug/L	10/04/05	5	5	ND	13.4	6	ND	ND	ND	--	--	--	--	--	--	ND	--
	ug/L	04/25/06	5	5	ND	10.8	6.02	ND	9.62	ND	--	--	--	--	--	--	ND	--
	ug/L	10/04/06	5	5	ND	9	6	ND	16.2	ND	--	--	--	--	--	--	ND	ND
	ug/L	03/21/07	5	5	ND	1.34	5.89	0.59 J	2.83	4.62	--	--	--	--	--	--	ND	ND
	ug/L	10/02/07	5	5	ND	6.16	5.95	0.83 J	ND	5.13	--	--	--	--	--	--	ND	ND
	ug/L	04/03/08	5	5	ND	0.30 J	5.72	1.14 J	11.3	5.01	4.50	ND	3.44	ND	1.42 J	--	ND	ND
	ug/L	10/29/08	5	5	ND	8.02	5.41	1.11 J	23.8	5.09	1.86 J	ND	--	--	--	--	ND	ND
	ug/L	03/24/09	0.27	3	ND	ND	4.6	ND	0.46 J	3.8	2.0 J	ND	--	--	--	--	ND	ND
	ug/L	09/22/09	0.27	3	ND	ND	5.7	0.75 J	4.9	4.9	1.0 J	ND	5.1	ND	ND	--	--	ND
	ug/L	03/22/10	0.069	3	ND	Dry	6.4	ND	ND	4.6	0.97 J	ND	--	--	--	0.82 J	--	ND
	ug/L	09/23/10	0.27	3	ND	7.5	6.3	ND	ND	4.2	0.55 J	ND	--	--	--	--	--	ND
	ug/L	03/16/11	0.74	3	ND	ND	7.3	ND	ND	4.5	1.2 J	ND	--	--	--	--	--	ND
	ug/L	09/21/11	0.74	3	ND	8.1	8.4	ND	1.4 J	4.6	1.2 J	ND	--	--	--	--	--	ND
	ug/L	03/21/12	0.17	3	ND	ND	8.5	ND	5.5	3.6	1.7 J	ND	--	--	--	--	ND	ND
	ug/L	09/20/12	0.17	3	ND	ND	7.8	ND	1.7 J	1.8 J	ND	ND	--	--	--	--	--	ND
	ug/L	03/20/13	0.17	3	ND	ND	10	1.0 J	1.2 J	5.2	2.4 J	ND	--	--	--	--	ND	ND
	ug/L	09/18/13	0.17	3	ND	4.8	8.0	0.43 J	4.1	5.2	1.8 J	ND	--	--	--	--	--	ND
	ug/L	03/27/14	0.17	3	ND	ND	10	ND	ND	4.9	1.2 J	ND	--	--	--	--	ND	ND
	ug/L	09/18/14	0.17	3	ND	8.0	10	ND	ND	5.6	0.88 J	ND	--	--	--	--	--	ND
	ug/L	03/18/15	0.17	3	ND	ND	10	ND	1.4 J	6.4	2.2 J	ND	--	--	--	--	ND	ND
Chloroethane	ug/L	12/05/94	10	10	ND	ND	ND	ND	--	--	--	--	--	--	--	--	ND	--
SWS GPS = 3000 ug/L	ug/L	02/14/95	10	10	ND	ND	ND	ND	--	--	--	--	--	--	--	--	ND	--
EPA MCL = No Standard	ug/L	04/03/95	10	10	ND	ND	ND	ND	--	--	--	--	--	--	--	--	ND	--
	ug/L	10/30/95	10	10	ND	ND	ND	ND	--	--	--	--	--	--	--	--	ND	--
	ug/L	04/08/96	10	10	ND	ND	ND	ND	--	--	--	--	--	--	--	--	ND	--
	ug/L	10/24/96	--	10	ND	--	ND	ND	--	--	--	--	--	--	--	--	ND	--
	ug/L	04/15/97	--	10	ND	--	ND	ND	--	--	--	--	--	--	--	--	ND	--
	ug/L	10/29/97	--	10	ND	2	ND	ND	--	--	--	--	--	--	--	--	ND	--
	ug/L	05/14/98	--	10	ND	ND	ND	ND	--	--	--	--	--	--	--	--	ND	--
	ug/L	10/11/98	--	10	ND	ND	ND	ND	--	--	--	--	--	--	--	--	ND	--
	ug/L	06/04/99	--	10	ND	ND	ND	ND	--	--	--	--	--	--	--	--	ND	--
	ug/L	10/29/99	--	10	ND	ND	ND	ND	--	--	--	--	--	--	--	--	ND	--
	ug/L	04/20/00	--	10	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	ND	--
	ug/L	11/07/00	--	10	ND	ND	ND	ND	--	--	--	--	--	--	--	--	ND	--
	ug/L	02/27/01	--	10	--	--	--	--	--	--	--	--	ND	ND	ND	ND	--	--
	ug/L	05/15/01	--	10	ND	ND	ND	ND	--	--	--	--	--	--	--	--	ND	--
	ug/L	10/16/01	--	10	ND	ND	ND	ND	--	ND	--	--	--	--	--	--	ND	--
	ug/L	04/24/02	--	10	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	ND	--
	ug/L	10/01/02	--	10	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	ND	--
	ug/L	04/09/03	10	10	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	ND	--
	ug/L	10/20/03	10	10	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	ND	--
	ug/L	03/24/04	10	10	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	ND	--
	ug/L	10/27/04	10	10	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	ND	--
	ug/L	05/25/05	10	10	ND	ND	ND	--	ND	ND	--	--	--	--	--	--	ND	--
	ug/L	10/04/05	10	10	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	ND	--
	ug/L	04/25/06	10	10	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	ND	--
	ug/L	10/04/06	10	10	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	ND	ND
	ug/L	03/21/07	10	10	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	ND	ND
	ug/L	10/02/07	10	10	ND	0.85 J	ND	0.69 J	11.1	ND	--	--	--	--	--	--	ND	ND
	ug/L	04/03/08	10	10	ND	ND	ND	0.87 J	ND	ND	ND	ND	ND	ND	ND	--	ND	ND
	ug/L	10/29/08	10	10	ND	ND	ND	0.68 J	ND	ND	ND	ND	--	--	--	--	ND	ND
	ug/L	03/24/09	0.30	10	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	ND	ND
	ug/L	09/22/09	0.30	10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	--	ND
	ug/L	03/22/10	0.18	10	ND	Dry	ND	ND	ND	ND	ND	ND	--	--	--	ND	--	ND
	ug/L	09/23/10	0.30	10	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	--	ND
	ug/L	03/16/11	0.75	10	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	--	ND
	ug/L	09/21/11	0.75	10	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	--	ND
	ug/L	03/21/12	0.23	10	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	ND	ND
	ug/L	09/20/12	0.23	10	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	--	ND
	ug/L	03/20/13	0.23	10	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	ND	ND
	ug/L	09/18/13	0.23	10	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	--	ND
	ug/L	03/27/14	0.23	10	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	ND	ND
	ug/L	09/18/14	0.23	10	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	--	ND
	ug/L	03/18/15	0.23	10	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	ND	ND

TABLE 7

Summary of Detected Constituents in MSW Monitoring Wells
Henderson County Closed MSW Landfill, Permit No. 45-01

Detected Monitoring Constituent/Parameter	Units	Date	MDL	SWS Reporting Limit	Upgradient Compliance Well	Downgradient Compliance Wells			Assessment Wells				Non-Compliance Wells				TVA Well	Blanks
					MW-5	MW-6	MW-7	MW-8	AMW-1S	AMW-1D	AMW-2S	AMW-2D	Old MW-1	MW-1	Old MW-2	MW-2	MW-9	
1,2-Dichlorobenzene	ug/L	12/05/94	0.27	5	ND	ND	ND	ND	--	--	--	--	--	--	--	--	ND	--
NC 2L = 20 ug/L	ug/L	02/14/95	5	5	ND	ND	ND	ND	--	--	--	--	--	--	--	--	ND	--
EPA MCL = 600 ug/L	ug/L	04/03/95	5	5	ND	ND	ND	ND	--	--	--	--	--	--	--	--	ND	--
	ug/L	10/30/95	5	5	ND	ND	ND	ND	--	--	--	--	--	--	--	--	ND	--
	ug/L	04/08/96	5	5	ND	ND	ND	ND	--	--	--	--	--	--	--	--	ND	--
	ug/L	10/24/96	5	5	ND	--	ND	ND	--	--	--	--	--	--	--	--	ND	--
	ug/L	04/15/97	5	5	ND	--	ND	ND	--	--	--	--	--	--	--	--	ND	--
	ug/L	10/29/97	--	5	ND	1	ND	ND	--	--	--	--	--	--	--	--	ND	--
	ug/L	05/14/98	--	5	ND	ND	14	ND	--	--	--	--	--	--	--	--	ND	--
	ug/L	10/11/98	--	5	ND	ND	ND	ND	--	--	--	--	--	--	--	--	ND	--
	ug/L	06/04/99	--	5	ND	ND	ND	ND	--	--	--	--	--	--	--	--	ND	--
	ug/L	10/29/99	--	5	ND	ND	ND	ND	--	--	--	--	--	--	--	--	ND	--
	ug/L	04/20/00	--	5	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	ND	--
	ug/L	11/07/00	--	5	ND	ND	ND	ND	--	--	--	--	--	--	--	--	ND	--
	ug/L	02/27/01	--	5	--	--	--	--	--	--	--	--	ND	ND	ND	ND	--	--
	ug/L	05/15/01	--	5	ND	ND	ND	ND	--	--	--	--	--	--	--	--	ND	--
	ug/L	10/16/01	--	5	ND	ND	ND	ND	--	ND	--	--	--	--	--	--	ND	--
	ug/L	04/24/02	--	5	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	ND	--
	ug/L	10/01/02	--	5	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	ND	--
	ug/L	04/09/03	--	5	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	ND	--
	ug/L	10/20/03	--	5	ND	7	ND	6	ND	ND	--	--	--	--	--	--	ND	--
	ug/L	03/24/04	--	5	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	ND	--
	ug/L	10/27/04	5	5	ND	6	ND	ND	ND	ND	--	--	--	--	--	--	ND	--
	ug/L	05/25/05	5	5	ND	ND	ND	--	ND	ND	--	--	--	--	--	--	ND	--
	ug/L	10/04/05	5	5	ND	12	ND	ND	ND	ND	--	--	--	--	--	--	ND	--
	ug/L	04/25/06	5	5	ND	10	ND	ND	ND	ND	--	--	--	--	--	--	ND	--
	ug/L	10/04/06	5	5	ND	10	ND	ND	ND	ND	--	--	--	--	--	--	ND	ND
	ug/L	03/21/07	5	5	ND	0.39 J	ND	0.97 J	ND	0.62 J	--	--	--	--	--	--	ND	ND
	ug/L	10/02/07	5	5	ND	2.52 J	0.56 J	0.94 J	0.44 J	0.67 J	--	--	--	--	--	--	ND	ND
	ug/L	04/03/08	5	5	ND	ND	0.46 J	1.35 J	0.23 J	0.65 J	0.27 J	ND	0.680 J	ND	0.390 J	--	ND	ND
	ug/L	10/29/08	5	5	ND	1.98 J	0.45 J	1.12 J	0.52 J	0.63 J	0.29 J	ND	--	--	--	--	ND	ND
	ug/L	03/24/09	0.27	5	ND	ND	ND	0.44 J	ND	0.53 J	ND	ND	--	--	--	--	ND	ND
	ug/L	09/22/09	0.27	5	ND	ND	ND	0.66 J	ND	0.46 J	ND	ND	1.1 J	ND	ND	--	--	ND
	ug/L	03/22/10	0.052	5	ND	Dry	0.49 J	ND	ND	0.64 J	ND	ND	--	--	--	ND	--	ND
	ug/L	09/23/10	0.27	5	ND	3.6 J	0.52 J	ND	ND	0.64 J	ND	ND	--	--	--	--	--	ND
	ug/L	03/16/11	0.11	5	ND	ND	ND	ND	ND	0.71 J	ND	ND	--	--	--	--	--	ND
	ug/L	09/21/11	0.11	5	ND	5.8	0.58 J	ND	ND	0.65 J	ND	ND	--	--	--	--	--	ND
	ug/L	03/21/12	0.19	5	ND	ND	0.56 J	ND	ND	0.62 J	ND	ND	--	--	--	--	ND	ND
	ug/L	09/20/12	0.19	5	ND	ND	0.50 J	0.52 J	ND	0.51 J	ND	ND	--	--	--	--	--	ND
	ug/L	03/20/13	0.19	5	ND	ND	0.76 J	1.3 J	ND	0.90 J	ND	ND	--	--	--	--	ND	ND
	ug/L	09/18/13	0.19	5	ND	1.3 J	0.83 J	ND	ND	0.65 J	ND	ND	--	--	--	--	--	ND
	ug/L	03/27/14	0.19	5	ND	ND	0.76 J	ND	ND	0.55 J	ND	ND	--	--	--	--	ND	ND
	ug/L	09/18/14	0.19	5	ND	2.9 J	0.81 J	ND	ND	0.69 J	ND	ND	--	--	--	--	--	ND
	ug/L	03/18/15	0.19	5	ND	ND	0.77 J	ND	ND	0.71 J	ND	ND	--	--	--	--	ND	ND
1,4-Dichlorobenzene	ug/L	12/05/94	5	5	ND	ND	ND	ND	--	--	--	--	--	--	--	--	ND	--
NC 2L = 6 ug/L	ug/L	02/14/95	5	5	ND	--	ND	ND	--	--	--	--	--	--	--	--	ND	--
EPA MCL = 75 ug/L	ug/L	04/03/95	5	5	ND	**11**	ND	ND	--	--	--	--	--	--	--	--	ND	--
	ug/L	10/30/95	5	5	ND	**10**	5	ND	--	--	--	--	--	--	--	--	ND	--
	ug/L	04/08/96	--	5	ND	--	**9**	ND	--	--	--	--	--	--	--	--	ND	--
	ug/L	10/24/96	--	5	ND	--	**8**	ND	--	--	--	--	--	--	--	--	ND	--
	ug/L	04/15/97	--	5	ND	--	**24**	ND	--	--	--	--	--	--	--	--	ND	--
	ug/L	10/29/97	--	5	ND	**9**	**10**	ND	--	--	--	--	--	--	--	--	ND	--
	ug/L	05/14/98	--	5	ND	**18**	**22**	ND	--	--	--	--	--	--	--	--	ND	--
	ug/L	10/11/98	--	5	ND	**18**	ND	ND	--	--	--	--	--	--	--	--	ND	--
	ug/L	06/04/99	--	5	ND	**18**	**10**	ND	--	--	--	--	--	--	--	--	ND	--
	ug/L	10/29/99	--	5	ND	ND	**7**	ND	--	--	--	--	--	--	--	--	ND	--
	ug/L	04/20/00	--	5	ND	**5**	**18**	ND	ND	--	--	--	--	--	--	--	ND	--
	ug/L	11/07/00	--	5	ND	ND	**8**	ND	--	--	--	--	--	--	--	--	ND	--
	ug/L	02/27/01	--	5	--	--	--	--	--	--	--	--	ND	ND	ND	ND	--	--
	ug/L	05/15/01	--	5	ND	**14**	6	ND	--	--	--	--	--	--	--	--	ND	--
	ug/L	10/16/01	--	5	ND	**12**	**7**	ND	--	ND	--	--	--	--	--	--	ND	--
	ug/L	04/24/02	--	5	ND	**18**	**8**	ND	ND	ND	--	--	--	--	--	--	ND	--
	ug/L	10/01/02	--	5	ND	**14**	**9**	ND	ND	ND	--	--	--	--	--	--	ND	--
	ug/L	04/09/03	5	5	ND	ND	**12**	ND	ND	ND	--	--	--	--	--	--	ND	--
	ug/L	10/20/03	5	5	ND	**23**	**13**	ND	ND	ND	--	--	--	--	--	--	ND	--
	ug/L	03/24/04	5	5	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	ND	--
	ug/L	10/27/04	5	5	ND	**20**	**19**	ND	ND	ND	--	--	--	--	--	--	ND	--
	ug/L	05/25/05	5	5	ND	ND	**17.8**	--	ND	ND	--	--	--	--	--	--	ND	--
	ug/L	10/04/05	5	5	ND	**25.4**	**17**	ND	ND	ND	--	--	--	--	--	--	ND	--
	ug/L	04/25/06	5	5	ND	**24.3**	**16.4**	ND	ND	ND	--	--	--	--	--	--	ND	--
	ug/L	10/04/06	5	5	ND	**18.5**	**14.6**	ND	ND	ND	--	--	--	--	--	--	ND	ND
	ug/L	03/21/07	5	5	ND	1.67 J	**17.1**	2.79 J	1.37	2.86 J	--	--	--	--	--	--	ND	ND
	ug/L	10/02/07	5	5	ND	**18.7**	**12.0**	3.64 J	3.24 J	2.99 J	--	--	--	--	--	--	ND	ND
	ug/L	04/03/08	5	5	ND	0.38 J	**8.37**	4.50 J	1.57 J	2.77 J	2.11 J	ND	1.52 J	ND	1.04 J	--	ND	ND
	ug/L	10/29/08	5	5	ND	**23.9**	**7.81**	4.44 J	4.11 J	2.96 J	1.66 J	ND	--	--	--	--	ND	ND
	ug/L	03/24/09	0.38	1	ND	ND	**6.4**	1.3	0.57 J	2.6	1.4	ND	--	--	--	--	ND	ND
	ug/L	09/22/09	0.38	1	ND	ND	**6.8**	2.4	1.4	2.1	1.0	ND	2.0	ND	ND	--	--	ND
	ug/L	03/22/10	0.10	1	ND	Dry	**9.8**	ND	ND	3.2	1.2	ND	--	--	--	2.0	--	ND
	ug/L	09/23/10	0.38	1	ND	**15**	**8.8**	ND	ND	3.4	0.91 J	ND	--	--	--	--	--	ND
	ug/L	03/16/11	0.79	1	ND	ND	**10**	ND	ND	3.2	1.3	ND	--	--	--	--	--	ND
	ug/L	09/21/11	0.79	1	ND	**14**	**12**	ND	0.93 J	4.2	1.2	ND	--	--	--	--	--	ND
	ug/L	03/21/12	0.19	1	ND	5.4 J	**12**	0.49 J	2.9	3.7	1.4	ND	--	--	--	--	ND	ND
	ug/L	09/20/12	0.19	1	ND	0.77 J	**11**	1.0	2.0	3.8	1.2	ND	--	--	--	--	--	ND
	ug/L	03/20/13	0.19	1	ND	ND	**14**	3.8	ND	5.0	2.2	ND	--	--	--	--	ND	ND
	ug/L	09/18/13	0.19	1	ND	6.0	**13**	1.2	0.73 J	4.1	1.4	ND	--	--	--	--	--	ND
	ug/L	03/27/14	0.19	1	ND	ND	**18**	ND	ND	3.1	0.73 J	ND	--	--	--	--	ND	ND
	ug/L	09/18/14	0.19	1	ND	**13**	**15**	ND	ND	4.3	0.86 J	ND	--	--	--	--	--	ND
	ug/L	03/18/15	0.19	1	ND	ND	**14**	ND	0.46 J	4.0	1.4	ND	--	--	--	--	ND	ND
Dichlorodifluoromethane	ug/L	12/05/94	5	5	ND	ND	ND	ND	--	--	--	--	--	--	--	--	ND	--
NC 2L = 1000 ug/L	ug/L	02/14/95	5	5	ND	ND	ND	ND	--	--	--	--	--	--	--	--	ND	--
EPA MCL = No Standard	ug/L	04/03/95	5	5	ND	ND	ND	ND	--	--	--	--	--	--	--	--	ND	--
	ug/L	10/30/95	5	5	ND	ND	ND	ND	--	--	--	--	--	--	--	--	ND	--
	ug/L	04/08/96	5	5	ND	ND	ND	ND	--	--	--	--	--	--	--	--	ND	--
	ug/L	10/24/96	5	5	ND	--	ND	ND	--	--	--	--	--	--	--	--	ND	--
	ug/L	04/15/97	5	5	ND	--	ND	ND	--	--	--	--	--	--	--	--	ND	--
	ug/L	10/29/97	5	5	ND	ND	ND	ND	--	--	--	--	--	--	--	--	ND	--
	ug/L	05/14/98	5	5	ND	ND	ND	ND	--	--	--	--	--	--	--	--	ND	--
	ug/L	10/11/98	5	5	ND	ND	ND	ND	--	--	--	--	--	--	--	--	ND	--
	ug/L	06/04/99	5	5	ND	ND	ND	ND	--	--	--	--	--	--	--	--	ND	--
	ug/L	10/29/99	5	5	ND	ND	ND	ND	--	--	--	--	--	--	--	--	ND	--
	ug/L	04/20/00	5	5	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	ND	--
	ug/L	11/07/00	5	5	ND	ND	ND	ND	--	--	--	--	--	--	--	--	ND	--
	ug/L	02/27/01	--	--	--	--	--	--	--	--	--	--	ND	ND	ND	ND	--	--
	ug/L	05/15/01	5	5	ND	ND	ND	ND	--	--	--	--	--	--	--	--	ND	--
	ug/L	10/16/01	5	5	ND	ND	ND	ND	--	ND	--	--	--	--	--	--	ND	--
	ug/L	04/24/02	5	5	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	ND	--
	ug/L	10/01/02	5	5	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	ND	--
	ug/L	04/09/03	5	5	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	ND	--
	ug/L	10/20/03	5	5	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	ND	--
	ug/L	03/24/04	5	5	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	ND	--
	ug/L	10/27/04	5	5	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	ND	--
	ug/L	05/25/05	5	5	ND	ND	ND	--	ND	ND	--	--	--	--	--	--	--	--
	ug/L	10/04/05	5	5	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	ND	--
	ug/L	04/25/06	5	5	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	ND	--
	ug/L	10/04/06	5	5	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	ND	ND
	ug/L	03/21/07	5	5	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	ND	ND
	ug/L	10/02/07	5	5	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	ND	ND
	ug/L	04/03/08	5	5	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	ND	ND
	ug/L	10/29/08	0.16	5	ND	ND	ND	0.65 J	ND	ND	ND	ND	--	--	--	--	0.45 J	ND
	ug/L	03/24/09	0.38	5	ND	ND	ND	ND	ND	0.55 J	0.86 J	ND	--	--	--	--	ND	ND
	ug/L	09/22/09	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	ug/L	03/22/10	0.091	5	ND	Dry	ND	ND	--	--	--	--	--	--	--	--	--	ND
	ug/L	09/23/10	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	ug/L	03/16/11	0.56	5	ND	ND	ND	ND	--	--	--	--	--	--	--	--	--	ND
	ug/L	09/21/11	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	ug/L	03/21/12	0.20	5	ND	ND	ND	ND	--	--	--	--	--	--	--	--	--	ND
	ug/L	09/20/12	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	ug/L	03/20/13	0.20	5	ND	ND	ND	ND	--	--	--	--	--	--	--	--	--	ND
	ug/L	09/18/13	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	ug/L	09/18/14	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	ug/L	03/18/15	0.20	5	ND	ND	ND	ND	--	--	--	--	--	--	--	--	--	ND
1,1-Dichloroethane	ug/L	12/05/94	5	5	ND	ND	ND	ND	--	--	--	--	--	--	--	--	ND	--
NC 2L = 6 ug/L	ug/L	02/14/95	5	5	ND	ND	**9**	ND	--	--	--	--	--	--	--	--	ND	--
EPA MCL = No Standard	ug/L	04/03/95	5	5	ND	--	**7**	ND	--	--	--	--	--	--	--	--	--	--
	ug/L	10/30/95	5	5	ND	ND	**10**	ND	--	--	--	--	--	--	--	--	ND	--
	ug/L	04/08/96	--	5	ND	ND	6	ND	--	--	--	--	--	--	--	--	ND	--
	ug/L	10/24/96	--	5	ND	--	**8**	ND	--	--	--	--	--	--	--	--	ND	--
	ug/L	04/15/97	--	5	ND	--	ND	ND	--	--	--	--	--	--	--	--	ND	--
	ug/L	10/29/97	--	5	ND	1	**7**	ND	--	--	--	--	--	--	--	--	1	--
	ug/L	05/14/98	--	5	ND	ND	ND	ND	--	--	--	--	--	--	--	--	ND	--
	ug/L	10/11/98	--	5	ND	ND	6	ND	--	--	--	--	--	--	--	--	ND	--
	ug/L	06/04/99	--	5	ND	ND	5	6	--	--	--	--	--	--	--	--	ND	--
	ug/L	10/29/99	--	5	ND	ND	ND	ND	--	--	--	--	--	--	--	--	ND	--
	ug/L	04/20/00	--	5	ND	ND	ND	5	ND	--	--	--	--	--	--	--	ND	--
	ug/L	11/07/00	--	5	ND	ND	ND	6	--	--	--	--	--	--	--	--	ND	--
	ug/L	02/27/01	--	5	--	--	--	--	--	--	--	--	ND	ND	ND	7	--	--
	ug/L	05/15/01	--	5	ND	ND	ND	**14**	--	--	--	--	--	--	--	--	ND	--
	ug/L	10/16/01	--	5	ND	ND	ND	**11**	--	ND	--	--	--	--	--	--	ND	--
	ug/L	04/24/02	--	5	ND	ND	ND	**25**	ND	ND	--	--	--	--	--	--	ND	--
	ug/L	10/01/02	--	5	ND	ND	ND	**17**	ND	ND	--	--	--	--	--	--	ND	--
	ug/L	04/09/03	--	5	ND	ND	ND	**24**	ND	ND	--	--	--	--	--	--	ND	--
	ug/L	10/20/03	5	5	ND	ND	ND	**18**	ND	ND	--	--	--	--	--	--	ND	--
	ug/L	03/24/04	5	5	ND	ND	ND	**10**	ND	ND	--	--	--	--	--	--	ND	--
	ug/L	10/27/04	5	5	ND	ND	ND	**13**	ND	ND	--	--	--	--	--	--	ND	--
	ug/L	05/25/05	5	5	ND	ND	ND	--	ND	ND	--	--	--	--	--	--	ND	--
	ug/L	10/04/05	5	5	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	ND	--
	ug/L	04/25/06	5	5	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	ND	--
	ug/L	10/04/06	5	5	ND	ND	ND	6	ND	ND	--	--	--	--	--	--	ND	ND
	ug/L	03/21/07	5	5	ND	ND	1.69	**7.8**	ND	1.31	--	--	--	--	--	--	ND	ND
	ug/L	10/02/07	5	5	ND	0.45 J	1.66 J	**9.7**	0.1 J	1.27 J	--	--	--	--	--	--	ND	ND
	ug/L	04/03/08	5	5	ND	ND	1.72 J	**13.1**	ND	1.36 J	0.98 J	ND	1.29 J	ND	3.87 J	--	ND	ND
	ug/L	10/29/08	5	5	ND	0.40 J	1.32 J	**13.5**	ND	1.36 J	1.33 J	ND	--	--	--	--	0.11 J	ND
	ug/L	03/24/09	0.33	5	ND	ND	0.83 J	3.6 J	ND	1.2 J	1.1 J	ND	--	--	--	--	ND	ND
	ug/L	09/22/09	0.33	5	ND	ND	0.75 J	**8.9**	ND	1.0 J	1.3 J	ND	0.87 J	1.2 J	ND	--	--	ND
	ug/L	03/22/10	0.050	5	ND	Dry	0.64 J	ND	ND	0.76 J	0.90 J	ND	--	--	--	3.9 J	--	ND
	ug/L	09/23/10	0.33	5	ND	ND	0.64 J	ND	ND	0.87 J	0.84 J	ND	--	--	--	--	--	ND
	ug/L	03/16/11	0.080	5	ND	ND	0.56 J	ND	ND	0.91 J	1.0 J	ND	--	--	--	--	--	ND
	ug/L	09/21/11	0.080	5	ND	ND	0.74 J	1.7 J	ND	1.1 J	1.4 J	ND	--	--	--	--	--	ND
	ug/L	03/21/12	0.13	5	ND	ND	0.63 J	0.94 J	ND	0.74 J	1.1 J	ND	--	--	--	--	ND	ND
	ug/L	09/20/12	0.13	5	ND	ND	0.49 J	2.5 J	ND	1.0 J	1.3 J	ND	--	--	--	--	--	ND
	ug/L	03/20/13	0.13	5	ND	ND	0.71 J	**6.9**	ND	1.2 J	1.6 J	ND	--	--	--	--	ND	ND
	ug/L	09/18/13	0.13	5	ND	ND	ND	1.7 J	ND	0.71 J	1.0 J	ND	--	--	--	--	--	ND
	ug/L	03/27/14	0.13	5	ND	ND	ND	ND	ND	0.72 J	0.92 J	ND	--	--	--	--	ND	ND
	ug/L	09/18/14	0.13	5	ND	ND	0.43 J	ND	ND	0.54 J	0.96 J	ND	--	--	--	--	--	ND
	ug/L	03/18/15	0.13	5	ND	ND	0.47 J	ND	ND	0.76 J	0.77 J	ND	--	--	--	--	ND	ND

TABLE 7

Summary of Detected Constituents in MSW Monitoring Wells
Henderson County Closed MSW Landfill, Permit No. 45-01

Detected Monitoring Constituent/Parameter	Units	Date	MDL	SWS Reporting Limit	Upgradient Compliance Well	Downgradient Compliance Wells			Assessment Wells				Non-Compliance Wells				TVA Well	Blanks
					MW-5	MW-6	MW-7	MW-8	AMW-1S	AMW-1D	AMW-2S	AMW-2D	Old MW-1	MW-1	Old MW-2	MW-2	MW-9	
1,2-Dichloroethane	ug/L	12/05/94	5	5	ND	ND	ND	ND	--	--	--	--	--	--	--	--	ND	--
NC 2L = 0.4 ug/L	ug/L	02/14/95	5	5	ND	ND	ND	ND	--	--	--	--	--	--	--	--	ND	--
EPA MCL = 5 ug/L	ug/L	04/03/95	5	5	ND	ND	ND	ND	--	--	--	--	--	--	--	--	ND	--
	ug/L	10/30/95	5	5	ND	ND	ND	ND	--	--	--	--	--	--	--	--	ND	--
	ug/L	04/08/96	5	5	ND	ND	ND	ND	--	--	--	--	--	--	--	--	ND	--
	ug/L	10/24/96	5	5	ND	--	ND	ND	--	--	--	--	--	--	--	--	ND	--
	ug/L	04/15/97	5	5	ND	--	ND	ND	--	--	--	--	--	--	--	--	ND	--
	ug/L	10/29/97	5	5	ND	ND	ND	ND	--	--	--	--	--	--	--	--	ND	--
	ug/L	05/14/98	5	5	ND	ND	ND	ND	--	--	--	--	--	--	--	--	ND	--
	ug/L	10/11/98	5	5	ND	ND	ND	ND	--	--	--	--	--	--	--	--	ND	--
	ug/L	06/04/99	5	5	ND	ND	ND	ND	--	--	--	--	--	--	--	--	ND	--
	ug/L	10/29/99	5	5	ND	ND	ND	ND	--	--	--	--	--	--	--	--	ND	--
	ug/L	04/20/00	5	5	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	ND	--
	ug/L	11/07/00	5	5	ND	ND	ND	ND	--	--	--	--	--	--	--	--	ND	--
	ug/L	02/27/01	--	--	--	--	--	--	--	--	--	--	ND	ND	ND	ND	--	--
	ug/L	05/15/01	5	5	ND	ND	ND	ND	--	--	--	--	--	--	--	--	ND	--
	ug/L	10/16/01	5	5	ND	ND	ND	ND	--	ND	--	--	--	--	--	--	ND	--
	ug/L	04/24/02	5	5	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	ND	--
	ug/L	10/01/02	5	5	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	ND	--
	ug/L	04/09/03	5	5	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	ND	--
	ug/L	10/20/03	5	5	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	ND	--
	ug/L	03/24/04	5	5	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	ND	--
	ug/L	10/27/04	5	5	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	ND	--
	ug/L	05/25/05	5	5	ND	ND	ND	--	ND	ND	--	--	--	--	--	--	ND	--
	ug/L	10/04/05	5	5	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	ND	--
	ug/L	04/25/06	5	5	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	ND	--
	ug/L	10/04/06	5	5	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	ND	ND
	ug/L	03/21/07	5	5	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	ND	ND
	ug/L	10/02/07	3	3	ND	**0.45** J	ND	ND	ND	ND	--	--	--	--	--	--	ND	ND
	ug/L	04/03/08	0.12	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	ND	ND
	ug/L	10/29/08	0.46	1	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	ND	ND
	ug/L	03/24/09	0.65	1	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	ND	ND
	ug/L	09/22/09	0.65	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	--	ND
	ug/L	03/22/10	0.082	1	ND	Dry	ND	ND	ND	ND	ND	ND	--	--	--	ND	--	ND
	ug/L	09/23/10	0.65	1	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	--	ND
	ug/L	03/16/11	0.47	1	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	--	ND
	ug/L	09/21/11	0.47	1	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	--	ND
	ug/L	03/21/12	0.21	1	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	ND	ND
	ug/L	09/20/12	0.21	1	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	--	ND
	ug/L	03/20/13	0.21	1	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	ND	ND
	ug/L	09/18/13	0.21	1	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	--	ND
	ug/L	03/27/14	0.21	1	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	ND	ND
	ug/L	09/18/14	0.21	1	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	--	ND
	ug/L	03/18/15	0.21	1	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	ND	ND
1,1-Dichloroethene	ug/L	12/05/94	5	5	ND	ND	ND	ND	--	--	--	--	--	--	--	--	ND	--
NC 2L = 7 ug/L	ug/L	02/14/95	5	5	ND	ND	ND	ND	--	--	--	--	--	--	--	--	ND	--
EPA MCL = 7 ug/L	ug/L	04/03/95	5	5	ND	ND	ND	ND	--	--	--	--	--	--	--	--	ND	--
	ug/L	10/30/95	5	5	ND	ND	ND	ND	--	--	--	--	--	--	--	--	ND	--
	ug/L	04/08/96	5	5	ND	ND	ND	ND	--	--	--	--	--	--	--	--	ND	--
	ug/L	10/24/96	5	5	ND	--	ND	ND	--	--	--	--	--	--	--	--	ND	--
	ug/L	04/15/97	5	5	ND	--	ND	ND	--	--	--	--	--	--	--	--	ND	--
	ug/L	10/29/97	5	5	ND	ND	ND	ND	--	--	--	--	--	--	--	--	ND	--
	ug/L	05/14/98	5	5	ND	ND	ND	ND	--	--	--	--	--	--	--	--	ND	--
	ug/L	10/11/98	5	5	ND	ND	ND	ND	--	--	--	--	--	--	--	--	ND	--
	ug/L	06/04/99	5	5	ND	ND	ND	ND	--	--	--	--	--	--	--	--	ND	--
	ug/L	10/29/99	5	5	ND	ND	ND	ND	--	--	--	--	--	--	--	--	ND	--
	ug/L	04/20/00	5	5	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	ND	--
	ug/L	11/07/00	5	5	ND	ND	ND	ND	--	--	--	--	--	--	--	--	ND	--
	ug/L	02/27/01	--	--	--	--	--	--	--	--	--	--	ND	ND	ND	ND	--	--
	ug/L	05/15/01	5	5	ND	ND	ND	ND	--	--	--	--	--	--	--	--	ND	--
	ug/L	10/16/01	5	5	ND	ND	ND	ND	--	ND	--	--	--	--	--	--	ND	--
	ug/L	04/24/02	5	5	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	ND	--
	ug/L	10/01/02	5	5	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	ND	--
	ug/L	04/09/03	5	5	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	ND	--
	ug/L	10/20/03	5	5	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	ND	--
	ug/L	03/24/04	5	5	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	ND	--
	ug/L	10/27/04	5	5	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	ND	--
	ug/L	05/25/05	5	5	ND	ND	ND	--	ND	ND	--	--	--	--	--	--	ND	--
	ug/L	10/04/05	5	5	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	ND	--
	ug/L	04/25/06	5	5	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	ND	--
	ug/L	10/04/06	5	5	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	ND	ND
	ug/L	03/21/07	5	5	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	ND	ND
	ug/L	10/02/07	0.14	5	ND	ND	ND	0.33 J	ND	ND	--	--	--	--	--	--	ND	ND
	ug/L	04/03/08	0.2	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	ND	ND
	ug/L	10/29/08	0.2	5	ND	ND	ND	0.15 J	ND	ND	ND	ND	--	--	--	--	ND	ND
	ug/L	03/24/09	0.24	5	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	ND	ND
	ug/L	09/22/09	0.24	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	--	ND
	ug/L	03/22/10	0.15	5	ND	Dry	ND	ND	ND	ND	ND	ND	--	--	--	ND	--	ND
	ug/L	09/23/10	0.24	5	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	--	ND
	ug/L	03/16/11	0.60	5	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	--	ND
	ug/L	09/21/11	0.60	5	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	--	ND
	ug/L	03/21/12	0.21	5	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	ND	ND
	ug/L	09/20/12	0.21	5	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	--	ND
	ug/L	03/20/13	0.21	5	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	ND	ND
	ug/L	09/18/13	0.21	5	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	--	ND
	ug/L	03/27/14	0.21	5	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	ND	ND
	ug/L	09/18/14	0.21	5	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	--	ND
	ug/L	03/18/15	0.21	5	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	ND	ND
cis-1,2-Dichloroethene	ug/L	12/05/94	5	5	ND	--	24	11	--	--	--	--	--	--	--	--	ND	--
NC 2L = 70 ug/L	ug/L	02/14/95	5	5	ND	9	ND	8	--	--	--	--	--	--	--	--	ND	--
EPA MCL = 70 ug/L	ug/L	04/03/95	5	5	ND	7	17	ND	--	--	--	--	--	--	--	--	ND	--
	ug/L	10/30/95	5	5	ND	10	25	10	--	--	--	--	--	--	--	--	ND	--
	ug/L	04/08/96	5	5	ND	7	17	7	--	--	--	--	--	--	--	--	ND	--
	ug/L	10/24/96	--	5	ND	--	21	ND	--	--	--	--	--	--	--	--	ND	--
	ug/L	04/15/97	--	5	ND	--	14	15	--	--	--	--	--	--	--	--	ND	--
	ug/L	10/29/97	--	5	ND	4	20	3	--	--	--	--	--	--	--	--	6	--
	ug/L	05/14/98	--	5	ND	ND	14	ND	--	--	--	--	--	--	--	--	ND	--
	ug/L	10/11/98	--	5	ND	ND	21	ND	--	--	--	--	--	--	--	--	ND	--
	ug/L	06/04/99	--	5	ND	6	17	ND	--	--	--	--	--	--	--	--	12	--
	ug/L	10/29/99	--	5	ND	ND	17	ND	--	--	--	--	--	--	--	--	26	--
	ug/L	04/20/00	--	5	ND	ND	13	ND	ND	--	--	--	--	--	--	--	16	--
	ug/L	11/07/00	--	5	ND	ND	15	ND	--	--	--	--	--	--	--	--	12	--
	ug/L	02/27/01	--	5	--	--	--	--	--	--	--	--	ND	ND	ND	9	--	--
	ug/L	05/15/01	--	5	ND	ND	14	7	--	--	--	--	--	--	--	--	8	--
	ug/L	10/16/01	--	5	ND	ND	13	ND	--	ND	--	--	--	--	--	--	10	--
	ug/L	04/24/02	--	5	ND	ND	15	11	ND	ND	--	--	--	--	--	--	6	--
	ug/L	10/01/02	--	5	ND	ND	12	7	ND	ND	--	--	--	--	--	--	ND	--
	ug/L	04/09/03	--	5	ND	ND	11	18	ND	ND	--	--	--	--	--	--	ND	--
	ug/L	10/20/03	--	5	ND	ND	11	22	ND	ND	--	--	--	--	--	--	ND	--
	ug/L	03/24/04	5	5	ND	ND	10	13	ND	ND	--	--	--	--	--	--	ND	--
	ug/L	10/27/04	5	5	ND	ND	10.5	26.2	ND	ND	--	--	--	--	--	--	ND	--
	ug/L	05/25/05	5	5	ND	ND	10.6	--	ND	ND	--	--	--	--	--	--	ND	--
	ug/L	10/04/05	5	5	ND	ND	12.1	12.8	ND	ND	--	--	--	--	--	--	ND	--
	ug/L	04/25/06	5	5	ND	ND	12.8	12.3	ND	ND	--	--	--	--	--	--	ND	--
	ug/L	10/04/06	5	5	ND	ND	14.2	15.7	ND	ND	--	--	--	--	--	--	ND	ND
	ug/L	03/21/07	5	5	ND	0.48 J	12.7	22.1	ND	2.3	--	--	--	--	--	--	ND	ND
	ug/L	10/02/07	5	5	ND	1.19 J	12.4 J	23.9 J	0.71 J	2.14 J	--	--	--	--	--	--	ND	ND
	ug/L	04/03/08	5	5	ND	0.05 J	12.2	30.6	0.35 J	2.25 J	1.85 J	ND	0.770 J	ND	5.43	--	ND	ND
	ug/L	10/29/08	5	5	ND	0.2 J	9.8	28.9	0.27 J	2.27 J	2.36 J	ND	--	--	--	--	0.24 J	ND
	ug/L	03/24/09	0.36	5	ND	ND	4.9 J	7.4	ND	1.7 J	1.7 J	ND	--	--	--	--	ND	ND
	ug/L	09/22/09	0.36	5	ND	ND	6.1	19	ND	2.0 J	2.5 J	ND	0.65 J	ND	4.0 J	--	--	ND
	ug/L	03/22/10	0.075	5	ND	Dry	7.0	0.66 J	ND	2.0 J	2.1 J	ND	--	--	--	9.1	--	ND
	ug/L	09/23/10	0.36	5	ND	ND	5.2	ND	ND	1.7 J	1.2 J	ND	--	--	--	--	--	ND
	ug/L	03/16/11	0.72	5	ND	ND	6.4	0.89 J	ND	2.6 J	2.0 J	ND	--	--	--	--	--	ND
	ug/L	09/21/11	0.72	5	ND	ND	5.6	2.9 J	ND	1.7 J	1.3 J	ND	--	--	--	--	--	ND
	ug/L	03/21/12	0.15	5	ND	ND	5.2	2.6 J	ND	1.5 J	1.6 J	ND	--	--	--	--	ND	ND
	ug/L	09/20/12	0.15	5	ND	ND	4.4 J	4.1 J	ND	1.4 J	1.2 J	ND	--	--	--	--	--	ND
	ug/L	03/20/13	0.15	5	ND	ND	5.6	13	ND	1.9 J	1.8 J	ND	--	--	--	--	ND	ND
	ug/L	09/18/13	0.15	5	ND	0.53 J	5.3	4.1 J	ND	1.4 J	1.5 J	ND	--	--	--	--	--	ND
	ug/L	03/27/14	0.15	5	ND	ND	4.5 J	ND	ND	1.2 J	1.2 J	ND	--	--	--	--	ND	ND
	ug/L	09/18/14	0.15	5	ND	ND	5.0	ND	ND	1.4 J	0.88 J	ND	--	--	--	--	--	ND
	ug/L	03/18/15	0.15	5	ND	ND	5.3	0.63 J	ND	1.2 J	1.2 J	ND	--	--	--	--	ND	ND
trans-1,2-Dichloroethene	ug/L	12/05/94	5	5	ND	ND	ND	ND	--	--	--	--	--	--	--	--	ND	--
NC 2L = 100 ug/L	ug/L	02/14/95	5	5	ND	ND	ND	ND	--	--	--	--	--	--	--	--	ND	--
EPA MCL = 100 ug/L	ug/L	04/03/95	5	5	ND	ND	ND	ND	--	--	--	--	--	--	--	--	ND	--
	ug/L	10/30/95	5	5	ND	ND	ND	ND	--	--	--	--	--	--	--	--	ND	--
	ug/L	04/08/96	5	5	ND	ND	ND	ND	--	--	--	--	--	--	--	--	ND	--
	ug/L	10/24/96	5	5	ND	--	ND	ND	--	--	--	--	--	--	--	--	ND	--
	ug/L	04/15/97	5	5	ND	--	ND	ND	--	--	--	--	--	--	--	--	ND	--
	ug/L	10/29/97	5	5	ND	ND	ND	ND	--	--	--	--	--	--	--	--	ND	--
	ug/L	05/14/98	5	5	ND	ND	ND	ND	--	--	--	--	--	--	--	--	ND	--
	ug/L	10/11/98	5	5	ND	ND	ND	ND	--	--	--	--	--	--	--	--	ND	--
	ug/L	06/04/99	5	5	ND	ND	ND	ND	--	--	--	--	--	--	--	--	ND	--
	ug/L	10/29/99	5	5	ND	ND	ND	ND	--	--	--	--	--	--	--	--	ND	--
	ug/L	04/20/00	5	5	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	ND	--
	ug/L	11/07/00	5	5	ND	ND	ND	ND	--	--	--	--	--	--	--	--	ND	--
	ug/L	02/27/01	--	5	--	--	--	--	--	--	--	--	ND	ND	ND	ND	--	--
	ug/L	05/15/01	5	5	ND	ND	ND	ND	--	--	--	--	--	--	--	--	ND	--
	ug/L	10/16/01	5	5	ND	ND	ND	ND	--	ND	--	--	--	--	--	--	ND	--
	ug/L	04/24/02	5	5	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	ND	--
	ug/L	10/01/02	5	5	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	ND	--
	ug/L	04/09/03	5	5	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	ND	--
	ug/L	10/20/03	5	5	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	ND	--
	ug/L	03/24/04	5	5	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	ND	--
	ug/L	10/27/04	5	5	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	ND	--
	ug/L	05/25/05	5	5	ND	ND	ND	--	ND	ND	--	--	--	--	--	--	ND	--
	ug/L	10/04/05	5	5	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	ND	--
	ug/L	04/25/06	5	5	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	ND	--
	ug/L	10/04/06	5	5	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	ND	ND
	ug/L	03/21/07	5	5	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	ND	ND
	ug/L	10/02/07	0.13	5	ND	ND	0.50 J	0.22 J	ND	ND	--	--	--	--	--	--	ND	ND
	ug/L	04/03/08	0.25	5	ND	ND	0.44 J	ND	ND	ND	ND	ND	ND	ND	ND	--	ND	ND
	ug/L	10/29/08	0.25	5	ND	ND	0.26 J	ND	ND	ND	ND	ND	--	--	--	--	ND	ND
	ug/L	03/24/09	0.34	5	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	ND	ND
	ug/L	09/22/09	0.34	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	--	ND
	ug/L	03/22/10	0.11	5	ND	Dry	ND	ND	ND	ND	ND	ND	--	--	--	ND	--	ND
	ug/L	09/23/10	0.34	5	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	--	ND
	ug/L	03/16/11	0.12	5	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	--	ND
	ug/L	09/21/11	0.12	5	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	--	ND
	ug/L	03/21/12	0.21	5	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	ND	ND
	ug/L	09/20/12	0.21	5	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	--	ND
	ug/L	03/20/13	0.21	5	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	ND	ND
	ug/L	09/18/13	0.21	5	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	--	ND
	ug/L	03/27/14	0.21	5	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	ND	ND
	ug/L	09/18/14	0.21	5	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	--	ND
	ug/L	03/18/15	0.21	5	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	ND	ND

TABLE 7

Summary of Detected Constituents in MSW Monitoring Wells
Henderson County Closed MSW Landfill, Permit No. 45-01

Detected Monitoring Constituent/Parameter	Units	Date	MDL	SWS Reporting Limit	Upgradient Compliance Well	Downgradient Compliance Wells			Assessment Wells				Non-Compliance Wells				TVA Well	Blanks
					MW-5	MW-6	MW-7	MW-8	AMW-1S	AMW-1D	AMW-2S	AMW-2D	Old MW-1	MW-1	Old MW-2	MW-2	MW-9	
1,2-Dichloropropane	ug/L	12/05/94	0.2	1	ND	ND	ND	ND	--	--	--	--	--	--	--	--	ND	--
NC 2L = 0.6 ug/L	ug/L	02/14/95	5	1	ND	ND	ND	ND	--	--	--	--	--	--	--	--	ND	--
EPA MCL = 5 ug/L	ug/L	04/03/95	5	1	ND	ND	ND	ND	--	--	--	--	--	--	--	--	ND	--
	ug/L	10/30/95	5	1	ND	ND	ND	ND	--	--	--	--	--	--	--	--	ND	--
	ug/L	04/08/96	5	1	ND	ND	ND	ND	--	--	--	--	--	--	--	--	ND	--
	ug/L	10/24/96	5	1	ND	--	ND	ND	--	--	--	--	--	--	--	--	ND	--
	ug/L	04/15/97	5	1	ND	--	ND	ND	--	--	--	--	--	--	--	--	ND	--
	ug/L	10/29/97	5	1	ND	ND	**1**	ND	--	--	--	--	--	--	--	--	ND	--
	ug/L	05/14/98	5	1	ND	ND	ND	ND	--	--	--	--	--	--	--	--	ND	--
	ug/L	10/11/98	5	1	ND	ND	ND	ND	--	--	--	--	--	--	--	--	ND	--
	ug/L	06/04/99	5	1	ND	ND	ND	ND	--	--	--	--	--	--	--	--	ND	--
	ug/L	10/29/99	5	1	ND	ND	ND	ND	--	--	--	--	--	--	--	--	ND	--
	ug/L	04/20/00	5	1	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	ND	--
	ug/L	11/07/00	5	1	ND	ND	ND	ND	--	--	--	--	--	--	--	--	ND	--
	ug/L	02/27/01	--	1	--	--	--	--	--	--	--	--	ND	ND	ND	ND	--	--
	ug/L	05/15/01	5	1	ND	ND	ND	ND	--	--	--	--	--	--	--	--	ND	--
	ug/L	10/16/01	5	1	ND	ND	ND	ND	--	ND	--	--	--	--	--	--	ND	--
	ug/L	04/24/02	5	1	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	ND	--
	ug/L	10/01/02	5	1	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	ND	--
	ug/L	04/09/03	5	1	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	ND	--
	ug/L	10/20/03	5	1	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	ND	--
	ug/L	03/24/04	5	1	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	ND	--
	ug/L	10/27/04	5	1	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	ND	--
	ug/L	05/25/05	5	1	ND	ND	ND	--	ND	ND	--	--	--	--	--	--	ND	--
	ug/L	10/04/05	5	1	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	ND	--
	ug/L	04/25/06	5	1	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	ND	--
	ug/L	10/04/06	5	1	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	ND	ND
	ug/L	03/21/07	5	1	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	ND	ND
	ug/L	10/02/07	0.13	1	ND	0.2 J	**0.65 J**	0.5 J	ND	0.17 J	--	--	--	--	--	--	ND	ND
	ug/L	04/03/08	0.25	1	ND	ND	ND	ND	ND	ND	0.12 J	ND	ND	ND	0.350 J	--	ND	ND
	ug/L	10/29/08	0.25	1	ND	ND	ND	0.5 J	ND	ND	ND	ND	--	--	--	--	ND	ND
	ug/L	03/24/09	0.20	1	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	ND	ND
	ug/L	09/22/09	0.20	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	--	ND
	ug/L	03/22/10	0.098	1	ND	Dry	ND	ND	ND	ND	ND	ND	--	--	--	0.50 J	--	ND
	ug/L	09/23/10	0.20	1	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	--	ND
	ug/L	03/16/11	0.59	1	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	--	ND
	ug/L	09/21/11	0.59	1	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	--	ND
	ug/L	03/21/12	0.10	1	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	ND	ND
	ug/L	09/20/12	0.10	1	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	--	ND
	ug/L	03/20/13	0.10	1	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	ND	ND
	ug/L	09/18/13	0.10	1	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	--	ND
	ug/L	03/27/14	0.10	1	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	ND	ND
	ug/L	09/18/14	0.10	1	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	--	ND
	ug/L	03/18/15	0.10	1	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	ND	ND
Ethylbenzene	ug/L	12/05/94	5	1	ND	11	ND	ND	--	--	--	--	--	--	--	--	ND	--
NC 2L = 600 ug/L	ug/L	02/14/95	5	1	ND	14	ND	ND	--	--	--	--	--	--	--	--	ND	--
EPA MCL = 700 ug/L	ug/L	04/03/95	5	1	ND	8	ND	ND	--	--	--	--	--	--	--	--	ND	--
	ug/L	10/30/95	5	1	ND	10	ND	ND	--	--	--	--	--	--	--	--	ND	--
	ug/L	04/08/96	5	1	ND	9	ND	ND	--	--	--	--	--	--	--	--	ND	--
	ug/L	10/24/96	5	1	ND	--	ND	ND	--	--	--	--	--	--	--	--	ND	--
	ug/L	04/15/97	5	1	ND	--	ND	ND	--	--	--	--	--	--	--	--	ND	--
	ug/L	10/29/97	5	1	ND	3	ND	2	--	--	--	--	--	--	--	--	ND	--
	ug/L	05/14/98	5	1	ND	8	ND	ND	--	--	--	--	--	--	--	--	ND	--
	ug/L	10/11/98	5	1	ND	ND	ND	ND	--	--	--	--	--	--	--	--	ND	--
	ug/L	06/04/99	5	1	ND	11	ND	ND	--	--	--	--	--	--	--	--	ND	--
	ug/L	10/29/99	5	1	ND	ND	ND	ND	--	--	--	--	--	--	--	--	ND	--
	ug/L	04/20/00	5	1	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	ND	--
	ug/L	11/07/00	5	1	ND	ND	ND	ND	--	--	--	--	--	--	--	--	ND	--
	ug/L	02/27/01	--	1	--	--	--	--	--	--	--	--	ND	ND	ND	ND	--	--
	ug/L	05/15/01	5	1	ND	ND	ND	ND	--	--	--	--	--	--	--	--	ND	--
	ug/L	10/16/01	5	1	ND	ND	ND	ND	--	ND	--	--	--	--	--	--	ND	--
	ug/L	04/24/02	5	1	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	ND	--
	ug/L	10/01/02	5	1	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	ND	--
	ug/L	04/09/03	5	1	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	ND	--
	ug/L	10/20/03	5	1	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	ND	--
	ug/L	03/24/04	5	1	ND	9	ND	ND	ND	ND	--	--	--	--	--	--	ND	--
	ug/L	10/27/04	5	1	ND	22.4	ND	ND	ND	ND	--	--	--	--	--	--	ND	--
	ug/L	05/25/05	5	1	ND	ND	ND	--	ND	ND	--	--	--	--	--	--	ND	--
	ug/L	10/04/05	5	1	ND	28	ND	ND	ND	ND	--	--	--	--	--	--	ND	--
	ug/L	04/25/06	5	1	ND	12.4	ND	ND	ND	ND	--	--	--	--	--	--	ND	--
	ug/L	10/04/06	5	1	ND	15.7	ND	ND	ND	ND	--	--	--	--	--	--	ND	ND
	ug/L	03/21/07	5	1	ND	0.96 J	ND	1.04	ND	ND	--	--	--	--	--	--	ND	ND
	ug/L	10/02/07	5	1	ND	3.46	ND	1.24 J	ND	ND	--	--	--	--	--	--	ND	ND
	ug/L	04/03/08	5	1	ND	ND	ND	1.37 J	ND	ND	ND	ND	ND	ND	ND	--	ND	ND
	ug/L	10/29/08	5	1	ND	0.22 J	ND	1.62	ND	ND	ND	ND	--	--	--	--	ND	ND
	ug/L	03/24/09	0.20	1	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	ND	ND
	ug/L	09/22/09	0.20	1	ND	ND	ND	0.95 J	ND	ND	ND	ND	ND	ND	ND	--	--	ND
	ug/L	03/22/10	0.10	1	ND	Dry	ND	ND	ND	ND	ND	ND	--	--	--	ND	--	ND
	ug/L	09/23/10	0.20	1	ND	2.1	ND	ND	ND	ND	ND	ND	--	--	--	--	--	ND
	ug/L	03/16/11	0.62	1	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	--	ND
	ug/L	09/21/11	0.62	1	ND	2.3	ND	ND	ND	ND	ND	ND	--	--	--	--	--	ND
	ug/L	03/21/12	0.13	1	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	ND	ND
	ug/L	09/20/12	0.13	1	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	--	ND
	ug/L	03/20/13	0.13	1	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	ND	ND
	ug/L	09/18/13	0.13	1	ND	0.79 J	ND	ND	ND	ND	ND	ND	--	--	--	--	--	ND
	ug/L	03/27/14	0.13	1	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	ND	ND
	ug/L	09/18/14	0.13	1	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	--	ND
	ug/L	03/18/15	0.13	1	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	ND	ND
2-Hexanone	ug/L	12/05/94	50	50	ND	ND	ND	ND	--	--	--	--	--	--	--	--	ND	--
SWS GPS = 40 ug/L	ug/L	02/14/95	50	50	ND	ND	ND	ND	--	--	--	--	--	--	--	--	ND	--
EPA MCL = No Standard	ug/L	04/03/95	50	50	ND	ND	ND	ND	--	--	--	--	--	--	--	--	ND	--
	ug/L	10/30/95	50	50	ND	ND	ND	ND	--	--	--	--	--	--	--	--	ND	--
	ug/L	04/08/96	50	50	ND	ND	ND	ND	--	--	--	--	--	--	--	--	ND	--
	ug/L	10/24/96	50	50	ND	--	ND	ND	--	--	--	--	--	--	--	--	ND	--
	ug/L	04/15/97	50	50	ND	--	ND	ND	--	--	--	--	--	--	--	--	ND	--
	ug/L	10/29/97	50	50	ND	ND	ND	ND	--	--	--	--	--	--	--	--	ND	--
	ug/L	05/14/98	50	50	ND	ND	ND	ND	--	--	--	--	--	--	--	--	ND	--
	ug/L	10/11/98	50	50	ND	ND	ND	ND	--	--	--	--	--	--	--	--	ND	--
	ug/L	06/04/99	50	50	ND	ND	ND	ND	--	--	--	--	--	--	--	--	ND	--
	ug/L	10/29/99	50	50	ND	ND	ND	ND	--	--	--	--	--	--	--	--	ND	--
	ug/L	04/20/00	50	50	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	ND	--
	ug/L	11/07/00	50	50	ND	ND	ND	ND	--	--	--	--	--	--	--	--	ND	--
	ug/L	02/27/01	--	--	--	--	--	--	--	--	--	--	ND	ND	ND	ND	--	--
	ug/L	05/15/01	50	50	ND	ND	ND	ND	--	--	--	--	--	--	--	--	ND	--
	ug/L	10/16/01	50	50	ND	ND	ND	ND	--	ND	--	--	--	--	--	--	ND	--
	ug/L	04/24/02	50	50	ND	**55**	ND	ND	ND	ND	--	--	--	--	--	--	ND	--
	ug/L	10/01/02	50	50	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	ND	--
	ug/L	04/09/03	50	50	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	ND	--
	ug/L	10/20/03	50	50	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	ND	--
	ug/L	03/24/04	50	50	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	ND	--
	ug/L	10/27/04	50	50	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	ND	--
	ug/L	05/25/05	50	50	ND	ND	ND	--	ND	ND	--	--	--	--	--	--	ND	--
	ug/L	10/04/05	50	50	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	ND	--
	ug/L	04/25/06	50	50	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	ND	--
	ug/L	10/04/06	50	50	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	ND	ND
	ug/L	03/21/07	50	50	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	ND	ND
	ug/L	10/02/07	50	50	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	ND	ND
	ug/L	04/03/08	50	50	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	ND	ND
	ug/L	10/29/08	50	50	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	ND	ND
	ug/L	03/24/09	0.69	50	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	ND	ND
	ug/L	09/22/09	0.69	50	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	--	ND
	ug/L	03/22/10	0.69	50	ND	Dry	ND	ND	ND	ND	ND	ND	--	--	--	ND	--	ND
	ug/L	09/23/10	0.69	50	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	--	ND
	ug/L	03/16/11	0.88	50	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	--	ND
	ug/L	09/21/11	0.88	50	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	--	ND
	ug/L	03/21/12	0.88	50	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	ND	ND
	ug/L	09/20/12	0.88	50	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	--	ND
	ug/L	03/20/13	0.88	50	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	ND	ND
	ug/L	09/18/13	0.88	50	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	--	ND
	ug/L	03/27/14	0.88	50	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	ND	ND
	ug/L	09/18/14	0.88	50	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	--	ND
	ug/L	03/18/15	0.88	50	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	ND	ND
Dibromomethane	ug/L	12/05/94	0.28	10	ND	ND	ND	ND	--	--	--	--	--	--	--	--	ND	--
SWS GPS = 70 ug/L	ug/L	02/14/95	5	10	ND	ND	ND	ND	--	--	--	--	--	--	--	--	ND	--
EPA MCL = No Standard	ug/L	04/03/95	5	10	ND	ND	ND	ND	--	--	--	--	--	--	--	--	ND	--
	ug/L	10/30/95	5	10	ND	ND	ND	ND	--	--	--	--	--	--	--	--	ND	--
	ug/L	04/08/96	5	10	ND	ND	ND	ND	--	--	--	--	--	--	--	--	ND	--
	ug/L	10/24/96	5	10	ND	--	ND	ND	--	--	--	--	--	--	--	--	ND	--
	ug/L	04/15/97	5	10	ND	--	ND	ND	--	--	--	--	--	--	--	--	ND	--
	ug/L	10/29/97	--	10	ND	ND	ND	ND	--	--	--	--	--	--	--	--	ND	--
	ug/L	05/14/98	--	10	ND	ND	ND	ND	--	--	--	--	--	--	--	--	ND	--
	ug/L	10/11/98	--	10	ND	ND	ND	ND	--	--	--	--	--	--	--	--	ND	--
	ug/L	06/04/99	--	10	ND	ND	ND	ND	--	--	--	--	--	--	--	--	ND	--
	ug/L	10/29/99	--	10	ND	ND	ND	ND	--	--	--	--	--	--	--	--	ND	--
	ug/L	04/20/00	--	10	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	ND	--
	ug/L	11/07/00	--	10	ND	ND	ND	ND	--	--	--	--	--	--	--	--	ND	--
	ug/L	02/27/01	--	--	--	--	--	--	--	--	--	--	ND	ND	ND	ND	--	--
	ug/L	05/15/01	--	10	ND	ND	ND	ND	--	--	--	--	--	--	--	--	ND	--
	ug/L	10/16/01	--	10	ND	ND	ND	ND	--	ND	--	--	--	--	--	--	ND	--
	ug/L	04/24/02	--	10	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	ND	--
	ug/L	10/01/02	--	10	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	ND	--
	ug/L	04/09/03	--	10	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	ND	--
	ug/L	10/20/03	--	10	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	ND	--
	ug/L	03/24/04	--	10	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	ND	--
	ug/L	10/27/04	5	10	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	ND	--
	ug/L	05/25/05	5	10	ND	ND	ND	--	ND	ND	--	--	--	--	--	--	ND	--
	ug/L	10/04/05	5	10	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	ND	--
	ug/L	04/25/06	5	10	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	ND	--
	ug/L	10/04/06	5	10	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	ND	ND
	ug/L	03/21/07	5	10	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	ND	ND
	ug/L	10/02/07	5	10	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	ND	ND
	ug/L	04/03/08	5	10	ND	ND	ND	0.26 J	ND	ND	ND	ND	ND	ND	ND	--	ND	ND
	ug/L	10/29/08	--	10	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	ND	ND
	ug/L	03/24/09	0.37	10	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	ND	ND
	ug/L	09/22/09	0.37	10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	--	ND
	ug/L	03/22/10	0.13	10	ND	Dry	ND	ND	ND	ND	ND	ND	--	--	--	ND	--	ND
	ug/L	09/23/10	0.37	10	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	--	ND
	ug/L	03/16/11	0.90	10	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	--	ND
	ug/L	09/21/11	0.90	10	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	--	ND
	ug/L	03/21/12	0.27	10	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	ND	ND
	ug/L	09/20/12	0.27	10	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	--	ND
	ug/L	03/20/13	0.27	10	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	ND	ND
	ug/L	09/18/13	0.27	10	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	--	ND
	ug/L	03/27/14	0.27	10	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	ND	ND
	ug/L	09/18/14	0.27	10	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	--	ND
	ug/L	03/18/15	0.27	10	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	ND	ND

TABLE 7

Summary of Detected Constituents in MSW Monitoring Wells
Henderson County Closed MSW Landfill, Permit No. 45-01

Detected Monitoring Constituent/Parameter	Units	Date	MDL	SWS Reporting Limit	Upgradient Compliance Well	Downgradient Compliance Wells			Assessment Wells				Non-Compliance Wells				TVA Well	Blanks
					MW-5	MW-6	MW-7	MW-8	AMW-1S	AMW-1D	AMW-2S	AMW-2D	Old MW-1	MW-1	Old MW-2	MW-2	MW-9	
Methylene chloride	ug/L	12/05/94	10	10	ND	ND	ND	**7**	--	--	--	--	--	--	--	--	ND	--
NC 2L = 5 ug/L	ug/L	02/14/95	10	10	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EPA MCL = 5 ug/L	ug/L	04/03/95	10	10	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	ug/L	10/30/95	10	10	ND	ND	**10**	ND	--	--	--	--	--	--	--	--	ND	--
	ug/L	04/08/96	--	10	ND	ND	ND	ND	--	--	--	--	--	--	--	--	ND	--
	ug/L	10/24/96	--	10	ND	--	**9**	ND	--	--	--	--	--	--	--	--	ND	--
	ug/L	04/15/97	--	10	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	ug/L	10/29/97	--	10	ND	ND	ND	ND	--	--	--	--	--	--	--	--	1	--
	ug/L	05/14/98	--	10	ND	ND	ND	ND	--	--	--	--	--	--	--	--	ND	--
	ug/L	10/11/98	--	10	ND	ND	ND	ND	--	--	--	--	--	--	--	--	ND	--
	ug/L	06/04/99	--	10	ND	ND	ND	ND	--	--	--	--	--	--	--	--	ND	--
	ug/L	10/29/99	--	10	ND	ND	ND	ND	--	--	--	--	--	--	--	--	ND	--
	ug/L	04/20/00	--	10	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	ND	--
	ug/L	11/07/00	--	10	ND	ND	ND	ND	--	--	--	--	--	--	--	--	ND	--
	ug/L	02/27/01	--	10	--	--	--	--	--	--	--	--	ND	ND	ND	ND	--	--
	ug/L	05/15/01	--	10	ND	ND	ND	**52**	--	--	--	--	--	--	--	--	ND	--
	ug/L	10/16/01	--	10	ND	ND	ND	**38**	--	ND	--	--	--	--	--	--	ND	--
	ug/L	04/24/02	--	10	ND	ND	ND	**87**	ND	ND	--	--	--	--	--	--	ND	--
	ug/L	10/01/02	--	10	ND	ND	ND	**44**	ND	ND	--	--	--	--	--	--	ND	--
	ug/L	04/09/03	10	10	ND	ND	ND	**54**	ND	ND	--	--	--	--	--	--	ND	--
	ug/L	10/20/03	10	10	ND	ND	ND	**27**	ND	ND	--	--	--	--	--	--	ND	--
	ug/L	03/24/04	10	10	ND	ND	ND	**30**	ND	ND	--	--	--	--	--	--	ND	--
	ug/L	10/27/04	10	10	ND	ND	ND	**42.1**	ND	ND	--	--	--	--	--	--	ND	--
	ug/L	05/25/05	10	10	ND	ND	ND	--	ND	ND	--	--	--	--	--	--	ND	--
	ug/L	10/04/05	10	10	ND	ND	ND	**13.4**	ND	ND	--	--	--	--	--	--	ND	--
	ug/L	04/25/06	10	10	ND	ND	ND	**13.9**	ND	ND	--	--	--	--	--	--	ND	--
	ug/L	10/04/06	10	10	ND	ND	ND	**15.1**	ND	ND	--	--	--	--	--	--	ND	ND
	ug/L	03/21/07	10	10	ND	ND	0.35 J	**23.3**	ND	0.24 J	--	--	--	--	--	--	ND	ND
	ug/L	10/02/07	10	10	ND	0.57 B	ND	**22.0**	ND	ND	--	--	--	--	--	--	ND	0.41 J
	ug/L	04/03/08	10	10	ND	ND	0.34 B	**34.2**	ND	ND	ND	3.10 J	ND	ND	ND	--	ND	0.42 J
	ug/L	10/29/08	10	10	ND	ND	0.27 J	**33.7**	ND	0.42 J	0.92 J	ND	--	--	--	--	0.75 J	ND
	ug/L	03/24/09	0.53	1	ND	ND	ND	**11**	ND	ND	ND	ND	--	--	--	--	ND	ND
	ug/L	09/22/09	0.53	1	ND	ND	ND	**21**	ND	ND	ND	ND	ND	ND	ND	--	--	ND
	ug/L	03/22/10	0.070	1	ND	Dry	ND	ND	ND	ND	ND	ND	--	--	--	ND	--	ND
	ug/L	09/23/10	0.53	1	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	--	ND
	ug/L	03/16/11	0.14	1	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	--	ND
	ug/L	09/21/11	0.14	1	ND	ND	ND	3.4	ND	ND	ND	ND	--	--	--	--	--	ND
	ug/L	03/21/12	0.23	1	ND	ND	ND	1.8	ND	ND	ND	ND	--	--	--	--	ND	ND
	ug/L	09/20/12	0.23	1	ND	ND	ND	2.4	ND	ND	ND	ND	--	--	--	--	--	ND
	ug/L	03/20/13	0.23	1	ND	ND	ND	**11**	ND	ND	ND	ND	--	--	--	--	ND	ND
	ug/L	09/18/13	0.23	1	ND	ND	ND	1.0	ND	ND	ND	ND	--	--	--	--	--	ND
	ug/L	03/27/14	0.23	1	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	ND	ND
	ug/L	09/18/14	0.23	1	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	--	ND
	ug/L	03/18/15	0.23	1	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	ND	ND
2-Butanone	ug/L	12/05/94	100	100	ND	10	ND	ND	--	--	--	--	--	--	--	--	ND	--
NC 2L = 4000 ug/L	ug/L	02/14/95	100	100	ND	ND	ND	ND	--	--	--	--	--	--	--	--	ND	--
EPA MCL = No Standard	ug/L	04/03/95	100	100	ND	ND	ND	ND	--	--	--	--	--	--	--	--	ND	--
	ug/L	10/30/95	100	100	ND	ND	ND	ND	--	--	--	--	--	--	--	--	ND	--
	ug/L	04/08/96	100	100	ND	ND	ND	ND	--	--	--	--	--	--	--	--	ND	--
	ug/L	10/24/96	100	100	ND	--	ND	ND	--	--	--	--	--	--	--	--	ND	--
	ug/L	04/15/97	100	100	ND	--	ND	ND	--	--	--	--	--	--	--	--	ND	--
	ug/L	10/29/97	100	100	ND	46	ND	ND	--	--	--	--	--	--	--	--	ND	--
	ug/L	05/14/98	100	100	ND	220	ND	ND	--	--	--	--	--	--	--	--	ND	--
	ug/L	10/11/98	100	100	ND	ND	ND	ND	--	--	--	--	--	--	--	--	ND	--
	ug/L	06/04/99	100	100	ND	670	ND	ND	--	--	--	--	--	--	--	--	ND	--
	ug/L	10/29/99	100	100	ND	ND	ND	ND	--	--	--	--	--	--	--	--	ND	--
	ug/L	04/20/00	100	100	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	ND	--
	ug/L	11/07/00	100	100	ND	ND	ND	ND	--	--	--	--	--	--	--	--	ND	--
	ug/L	02/27/01	--	--	--	--	--	--	--	--	--	--	ND	ND	ND	ND	--	--
	ug/L	05/15/01	100	100	ND	ND	ND	ND	--	--	--	--	--	--	--	--	ND	--
	ug/L	10/16/01	100	100	ND	ND	ND	ND	--	ND	--	--	--	--	--	--	ND	--
	ug/L	04/24/02	100	100	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	ND	--
	ug/L	10/01/02	100	100	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	ND	--
	ug/L	04/09/03	100	100	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	ND	--
	ug/L	10/20/03	100	100	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	ND	--
	ug/L	03/24/04	100	100	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	ND	--
	ug/L	10/27/04	100	100	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	ND	--
	ug/L	05/25/05	100	100	ND	ND	ND	--	ND	ND	--	--	--	--	--	--	ND	--
	ug/L	10/04/05	100	100	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	ND	--
	ug/L	04/25/06	100	100	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	ND	--
	ug/L	10/04/06	100	100	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	ND	ND
	ug/L	03/21/07	100	100	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	ND	ND
	ug/L	10/02/07	100	100	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	ND	ND
	ug/L	04/03/08	100	100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	ND	ND
	ug/L	10/29/08	100	100	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	ND	ND
	ug/L	03/24/09	1.1	100	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	ND	ND
	ug/L	09/22/09	1.1	100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	--	ND
	ug/L	03/22/10	1.1	100	ND	Dry	ND	ND	ND	ND	ND	ND	--	--	--	ND	--	ND
	ug/L	09/23/10	1.1	100	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	--	ND
	ug/L	03/16/11	1.1	100	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	--	ND
	ug/L	09/21/11	1.1	100	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	--	ND
	ug/L	03/21/12	1.1	100	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	ND	ND
	ug/L	09/20/12	1.1	100	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	--	ND
	ug/L	03/20/13	1.1	100	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	ND	ND
	ug/L	09/18/13	1.1	100	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	--	ND
	ug/L	03/27/14	1.1	100	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	ND	ND
	ug/L	09/18/14	1.1	100	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	--	ND
	ug/L	03/18/15	1.1	100	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	ND	ND
Naphthalene	ug/L	12/05/94	5	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
NC 2L = 6 ug/L	ug/L	02/14/95	5	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EPA MCL = No Standard	ug/L	04/03/95	5	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	ug/L	10/30/95	5	5	ND	ND	ND	ND	--	--	--	--	--	--	--	--	ND	--
	ug/L	04/08/96	5	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	ug/L	10/24/96	5	5	ND	--	ND	ND	--	--	--	--	--	--	--	--	ND	--
	ug/L	04/15/97	5	5	--	2	--	--	--	--	--	--	--	--	--	--	--	--
	ug/L	10/29/97	5	5	ND	ND	2	ND	--	--	--	--	--	--	--	--	ND	--
	ug/L	05/14/98	5	5	ND	ND	ND	ND	--	--	--	--	--	--	--	--	ND	--
	ug/L	10/11/98	5	5	ND	**9**	ND	ND	--	--	--	--	--	--	--	--	ND	--
	ug/L	06/04/99	5	5	ND	ND	ND	ND	--	--	--	--	--	--	--	--	ND	--
	ug/L	10/29/99	10	10	ND	ND	ND	ND	--	--	--	--	--	--	--	--	ND	--
	ug/L	04/20/00	10	10	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	ND	--
	ug/L	11/07/00	10	10	ND	ND	ND	ND	--	--	--	--	--	--	--	--	ND	--
	ug/L	02/27/01	--	--	--	--	--	--	--	--	--	--	ND	ND	ND	ND	--	--
	ug/L	05/15/01	10	10	ND	ND	ND	ND	--	--	--	--	--	--	--	--	ND	--
	ug/L	10/16/01	10	10	ND	ND	ND	ND	--	ND	--	--	--	--	--	--	ND	--
	ug/L	04/24/02	10	10	ND	**7**	ND	ND	ND	ND	--	--	--	--	--	--	ND	--
	ug/L	10/01/02	10	10	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	ND	--
	ug/L	04/09/03	10	10	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	ND	--
	ug/L	10/20/03	0.13	10	ND	**7**	ND	ND	ND	ND	--	--	--	--	--	--	ND	--
	ug/L	03/24/04	10	10	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	ND	--
	ug/L	10/27/04	10	10	ND	6	ND	ND	ND	ND	--	--	--	--	--	--	ND	--
	ug/L	05/25/05	10	10	ND	ND	ND	--	ND	ND	--	--	--	--	--	--	ND	--
	ug/L	10/04/05	10	10	ND	**8**	ND	ND	ND	ND	--	--	--	--	--	--	ND	--
	ug/L	04/25/06	10	10	ND	6	ND	ND	ND	ND	--	--	--	--	--	--	ND	--
	ug/L	10/04/06	10	10	ND	6	ND	ND	ND	ND	--	--	--	--	--	--	ND	ND
	ug/L	03/21/07	10	10	ND	ND	0.66 J	0.57 J	ND	ND	--	--	--	--	--	--	ND	ND
	ug/L	10/02/07	10	10	ND	3.04	1.49	0.75	ND	ND	--	--	--	--	--	--	ND	ND
	ug/L	04/03/08	10	10	ND	ND	ND	0.76 J	ND	ND	ND	ND	ND	ND	0.550 J	--	ND	ND
	ug/L	10/29/08	10	10	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	ND	ND
	ug/L	03/24/09	0.39	10	ND	ND	ND	0.55 J	ND	ND	ND	ND	--	--	--	--	ND	ND
	ug/L	09/22/09	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	ug/L	03/22/10	0.086	10	ND	Dry	ND	ND	--	--	--	--	--	--	--	--	--	ND
	ug/L	09/23/10	--	10	--	--	--	--	--	--	--	--	ND	ND	ND	ND	--	--
	ug/L	03/16/11	0.46	10	ND	ND	ND	ND	--	--	--	--	--	--	--	--	--	ND
	ug/L	09/21/11	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	ug/L	03/21/12	0.11	10	ND	ND	ND	ND	--	--	--	--	--	--	--	--	--	ND
	ug/L	09/20/12	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	ug/L	03/20/13	0.11	10	ND	ND	ND	ND	--	--	--	--	--	--	--	--	--	ND
	ug/L	09/18/13	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	ug/L	03/27/14	0.11	10	ND	ND	ND	ND	--	--	--	--	--	--	--	--	--	ND
	ug/L	03/18/15	0.11	10	ND	ND	ND	ND	--	--	--	--	--	--	--	--	--	ND

TABLE 7

Summary of Detected Constituents in MSW Monitoring Wells
Henderson County Closed MSW Landfill, Permit No. 45-01

Detected Monitoring Constituent/Parameter	Units	Date	MDL	SWS Reporting Limit	Upgradient Compliance Well	Downgradient Compliance Wells			Assessment Wells				Non-Compliance Wells				TVA Well	Blanks
					MW-5	MW-6	MW-7	MW-8	AMW-1S	AMW-1D	AMW-2S	AMW-2D	Old MW-1	MW-1	Old MW-2	MW-2	MW-9	
Tetrachloroethene (PCE)	ug/L	12/05/94	5	1	ND	ND	6.6	9	--	--	--	--	--	--	--	--	ND	--
NC 2L = 0.7 ug/L	ug/L	02/14/95	5	1	ND	ND	7	7	--	--	--	--	--	--	--	--	6	--
EPA MCL = 5 ug/L	ug/L	04/03/95	5	1	ND	ND	6.3	ND	--	--	--	--	--	--	--	--	6	--
	ug/L	10/30/95	5	1	ND	ND	ND	ND	--	--	--	--	--	--	--	--	5	--
	ug/L	04/08/96	5	1	ND	ND	ND	ND	--	--	--	--	--	--	--	--	ND	--
	ug/L	10/24/96	--	1	ND	--	ND	ND	--	--	--	--	--	--	--	--	9	--
	ug/L	04/15/97	--	1	ND	--	ND	15	--	--	--	--	--	--	--	--	16	--
	ug/L	10/29/97	--	1	ND	ND	4	4	--	--	--	--	--	--	--	--	16	--
	ug/L	05/14/98	--	1	ND	ND	ND	19	--	--	--	--	--	--	--	--	13	--
	ug/L	10/11/98	--	1	ND	ND	ND	15	--	--	--	--	--	--	--	--	15	--
	ug/L	06/04/99	--	1	ND	ND	ND	44	--	--	--	--	--	--	--	--	27	--
	ug/L	10/29/99	--	1	ND	ND	ND	27	--	--	--	--	--	--	--	--	31	--
	ug/L	04/20/00	--	1	ND	ND	ND	69	ND	--	--	--	--	--	--	--	30	--
	ug/L	11/07/00	--	1	ND	ND	ND	54	--	--	--	--	--	--	--	--	36	--
	ug/L	02/27/01	--	1	--	--	--	--	--	--	--	--	ND	ND	ND	ND	--	--
	ug/L	05/15/01	--	1	ND	ND	ND	110	--	--	--	--	--	--	--	--	24	--
	ug/L	10/16/01	--	1	ND	ND	ND	44	--	ND	--	--	--	--	--	--	11	--
	ug/L	04/24/02	--	1	ND	ND	ND	170	ND	ND	--	--	--	--	--	--	24	--
	ug/L	10/01/02	--	1	ND	ND	ND	110	ND	ND	--	--	--	--	--	--	20	--
	ug/L	04/09/03	--	1	ND	ND	ND	120	ND	ND	--	--	--	--	--	--	11	--
	ug/L	10/20/03	--	1	ND	ND	ND	61	ND	ND	--	--	--	--	--	--	8	--
	ug/L	03/24/04	--	1	ND	ND	ND	32	ND	ND	--	--	--	--	--	--	8.12	--
	ug/L	10/27/04	5	1	ND	ND	ND	52	ND	ND	--	--	--	--	--	--	6.96	--
	ug/L	05/25/05	5	1	ND	ND	ND	--	ND	ND	--	--	--	--	--	--	ND	--
	ug/L	10/04/05	5	1	ND	ND	ND	16.2	ND	ND	--	--	--	--	--	--	ND	--
	ug/L	04/25/06	5	1	ND	ND	ND	10	ND	ND	--	--	--	--	--	--	ND	--
	ug/L	10/04/06	5	1	ND	ND	ND	21	ND	ND	--	--	--	--	--	--	ND	ND
	ug/L	03/21/07	5	1	ND	ND	ND	28.8	ND	ND	--	--	--	--	--	--	2.17	ND
	ug/L	10/02/07	5	1	ND	ND	ND	42.1	ND	ND	--	--	--	--	--	--	1.79 J	ND
	ug/L	04/03/08	5	1	ND	ND	ND	47.9	ND	ND	ND	ND	ND	ND	0.650 J	--	2.32 J	ND
	ug/L	10/29/08	5	1	ND	ND	ND	48.5	ND	ND	ND	ND	--	--	--	--	1.98	ND
	ug/L	03/24/09	0.36	1	ND	ND	ND	8.7	ND	ND	ND	ND	--	--	--	--	2.7	ND
	ug/L	09/22/09	0.36	1	ND	ND	ND	25	ND	ND	ND	ND	ND	ND	ND	--	--	ND
	ug/L	03/22/10	0.099	1	ND	Dry	ND	0.80 J	ND	ND	ND	ND	--	--	--	1.4	--	ND
	ug/L	09/23/10	0.36	1	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	--	ND
	ug/L	03/16/11	0.73	1	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	--	ND
	ug/L	09/21/11	0.73	1	ND	ND	ND	2.8	ND	ND	ND	ND	--	--	--	--	--	ND
	ug/L	03/21/12	0.17	1	ND	ND	ND	1.7	ND	ND	ND	ND	--	--	--	--	ND	ND
	ug/L	09/20/12	0.17	1	ND	ND	ND	3.9	ND	ND	ND	ND	--	--	--	--	--	ND
	ug/L	03/20/13	0.17	1	ND	ND	ND	11	ND	ND	ND	ND	--	--	--	--	ND	ND
	ug/L	09/18/13	0.17	1	ND	ND	ND	2.8	ND	ND	ND	ND	--	--	--	--	--	ND
	ug/L	03/27/14	0.17	1	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	ND	ND
	ug/L	09/18/14	0.17	1	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	--	ND
	ug/L	03/18/15	0.17	1	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	ND	ND
Toluene	ug/L	12/05/94	5	1	ND	5	ND	ND	--	--	--	--	--	--	--	--	ND	--
NC 2L = 600 ug/L	ug/L	02/14/95	5	1	ND	7	ND	ND	--	--	--	--	--	--	--	--	ND	--
EPA MCL = 1000 ug/L	ug/L	04/03/95	5	1	ND	ND	ND	ND	--	--	--	--	--	--	--	--	ND	--
	ug/L	10/30/95	5	1	ND	ND	ND	ND	--	--	--	--	--	--	--	--	ND	--
	ug/L	04/08/96	5	1	ND	ND	ND	ND	--	--	--	--	--	--	--	--	ND	--
	ug/L	10/24/96	--	1	ND	--	ND	9	--	--	--	--	--	--	--	--	ND	--
	ug/L	04/15/97	--	1	ND	--	ND	ND	--	--	--	--	--	--	--	--	ND	--
	ug/L	10/29/97	--	1	ND	ND	ND	ND	--	--	--	--	--	--	--	--	ND	--
	ug/L	05/14/98	--	1	ND	ND	ND	ND	--	--	--	--	--	--	--	--	ND	--
	ug/L	10/11/98	--	1	ND	ND	ND	ND	--	--	--	--	--	--	--	--	ND	--
	ug/L	06/04/99	--	1	ND	150	ND	ND	--	--	--	--	--	--	--	--	ND	--
	ug/L	10/29/99	--	1	ND	ND	ND	ND	--	--	--	--	--	--	--	--	ND	--
	ug/L	04/20/00	--	1	ND	59	ND	ND	ND	--	--	--	--	--	--	--	ND	--
	ug/L	11/07/00	--	1	ND	ND	ND	ND	--	--	--	--	--	--	--	--	ND	--
	ug/L	02/27/01	--	1	--	--	--	--	--	--	--	--	ND	ND	ND	ND	--	--
	ug/L	05/15/01	--	1	ND	11	ND	ND	--	--	--	--	--	--	--	--	ND	--
	ug/L	10/16/01	--	1	ND	ND	ND	ND	--	ND	--	--	--	--	--	--	ND	--
	ug/L	04/24/02	--	1	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	ND	--
	ug/L	10/01/02	--	1	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	ND	--
	ug/L	04/09/03	5	1	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	ND	--
	ug/L	10/20/03	5	1	ND	5	ND	ND	ND	ND	--	--	--	--	--	--	ND	--
	ug/L	03/24/04	5	1	ND	878	ND	ND	ND	ND	--	--	--	--	--	--	ND	--
	ug/L	10/27/04	5	1	ND	1220	ND	ND	ND	ND	--	--	--	--	--	--	ND	--
	ug/L	05/25/05	5	1	ND	132	ND	--	ND	ND	--	--	--	--	--	--	ND	--
	ug/L	10/04/05	5	1	ND	16	ND	ND	ND	ND	--	--	--	--	--	--	ND	--
	ug/L	04/25/06	5	1	ND	12	ND	ND	ND	ND	--	--	--	--	--	--	ND	--
	ug/L	10/04/06	5	1	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	ND	ND
	ug/L	03/21/07	5	1	ND	0.3 J	ND	1.05	ND	ND	--	--	--	--	--	--	ND	ND
	ug/L	10/02/07	5	1	ND	1.08 J	0.11 J	1.62 J	ND	ND	--	--	--	--	--	--	ND	ND
	ug/L	04/03/08	5	1	ND	0.11 B	ND	1.30 B	ND	ND	ND	ND	ND	ND	0.280 J	--	ND	0.60 J
	ug/L	10/29/08	5	1	ND	4.33	ND	0.99 J	ND	ND	ND	ND	--	--	--	--	ND	ND
	ug/L	03/24/09	0.27	1	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	ND	ND
	ug/L	09/22/09	0.27	1	0.98 J	1.6	0.48 J	0.96 J	0.42 J	0.93 J	0.63 J	1.3	0.40 J	0.82 J	390	--	--	ND
	ug/L	03/22/10	0.053	1	ND	Dry	ND	ND	ND	ND	ND	ND	--	--	--	ND	--	ND
	ug/L	09/23/10	0.27	1	ND	3.1	ND	ND	ND	ND	ND	ND	--	--	--	--	--	ND
	ug/L	03/16/11	0.85	1	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	--	ND
	ug/L	09/21/11	0.85	1	ND	2.8	ND	ND	ND	ND	ND	ND	--	--	--	--	--	ND
	ug/L	03/21/12	0.14	1	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	ND	ND
	ug/L	09/20/12	0.14	1	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	--	ND
	ug/L	03/20/13	0.14	1	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	ND	ND
	ug/L	09/18/13	0.14	1	ND	3.8	ND	ND	ND	ND	ND	ND	--	--	--	--	--	ND
	ug/L	03/27/14	0.14	1	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	ND	ND
	ug/L	09/18/14	0.14	1	ND	75	ND	ND	ND	2.0	ND	ND	--	--	--	--	--	ND
	ug/L	03/18/15	0.14	1	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	ND	ND
1,1,1-Trichloroethane	ug/L	12/05/94	5	1	ND	ND	--	ND	--	--	--	--	--	--	--	--	--	--
NC 2L = 200 ug/L	ug/L	02/14/95	5	1	ND	ND	--	ND	--	--	--	--	--	--	--	--	--	--
EPA MCL = 200 ug/L	ug/L	04/03/95	5	1	ND	ND	--	ND	--	--	--	--	--	--	--	--	--	--
	ug/L	10/30/95	--	1	ND	ND	--	ND	--	--	--	--	--	--	--	--	--	--
	ug/L	04/08/96	--	1	ND	ND	--	ND	--	--	--	--	--	--	--	--	--	--
	ug/L	10/24/96	--	1	ND	--	--	ND	--	--	--	--	--	--	--	--	--	--
	ug/L	04/15/97	--	1	ND	--	--	ND	--	--	--	--	--	--	--	--	--	--
	ug/L	10/29/97	--	1	ND	ND	--	ND	--	--	--	--	--	--	--	--	--	--
	ug/L	05/14/98	--	1	ND	ND	--	ND	--	--	--	--	--	--	--	--	--	--
	ug/L	10/11/98	--	1	ND	ND	--	ND	--	--	--	--	--	--	--	--	--	--
	ug/L	06/04/99	--	1	ND	ND	--	ND	--	--	--	--	--	--	--	--	--	--
	ug/L	10/29/99	--	1	ND	ND	--	ND	--	--	--	--	--	--	--	--	--	--
	ug/L	04/20/00	--	1	ND	ND	--	ND	--	--	--	--	--	--	--	--	--	--
	ug/L	11/07/00	--	1	ND	ND	--	ND	--	--	--	--	--	--	--	--	--	--
	ug/L	02/27/01	--	1	--	--	--	--	--	--	--	--	ND	ND	ND	ND	--	--
	ug/L	05/15/01	--	1	ND	ND	--	6	--	--	--	--	--	--	--	--	--	--
	ug/L	10/16/01	--	1	ND	ND	--	6	--	--	--	--	--	--	--	--	--	--
	ug/L	04/24/02	--	1	ND	ND	--	9	--	--	--	--	--	--	--	--	--	--
	ug/L	10/01/02	--	1	ND	ND	--	5	--	--	--	--	--	--	--	--	--	--
	ug/L	04/09/03	--	1	ND	ND	--	ND	--	--	--	--	--	--	--	--	--	--
	ug/L	10/20/03	5	1	ND	ND	--	ND	--	--	--	--	--	--	--	--	--	--
	ug/L	03/24/04	5	1	ND	ND	--	ND	--	--	--	--	--	--	--	--	--	--
	ug/L	10/27/04	5	1	ND	ND	--	ND	--	--	--	--	--	--	--	--	--	--
	ug/L	05/25/05	5	1	ND	ND	--	--	--	--	--	--	--	--	--	--	ND	--
	ug/L	10/04/05	5	1	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	ND	--
	ug/L	04/25/06	5	1	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	ND	--
	ug/L	10/04/06	5	1	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	ND	ND
	ug/L	03/21/07	5	1	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	ND	ND
	ug/L	10/02/07	5	1	ND	ND	ND	0.18 J	ND	ND	--	--	--	--	--	--	ND	ND
	ug/L	04/03/08	5	1	ND	ND	ND	0.23 J	ND	ND	ND	ND	ND	ND	ND	--	ND	ND
	ug/L	10/29/08	5	1	ND	ND	ND	0.13 J	ND	ND	ND	ND	--	--	--	--	ND	ND
	ug/L	03/24/09	0.27	1	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	ND	ND
	ug/L	09/22/09	0.27	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	--	ND
	ug/L	03/22/10	0.15	1	ND	Dry	ND	ND	ND	ND	ND	ND	--	--	--	ND	--	ND
	ug/L	09/23/10	0.27	1	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	--	ND
	ug/L	03/16/11	0.65	1	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	--	ND
	ug/L	09/21/11	0.65	1	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	--	ND
	ug/L	03/21/12	0.12	1	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	ND	ND
	ug/L	09/20/12	0.12	1	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	--	ND
	ug/L	03/20/13	0.12	1	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	ND	ND
	ug/L	09/18/13	0.12	1	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	--	ND
	ug/L	03/27/14	0.12	1	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	ND	ND
	ug/L	09/18/14	0.12	1	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	--	ND
	ug/L	03/18/15	0.12	1	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	ND	ND
Trichloroethene	ug/L	12/05/94	5	1	ND	ND	ND	ND	--	--	--	--	--	--	--	--	ND	--
NC 2L = 3 ug/L	ug/L	02/14/95	5	1	ND	ND	ND	ND	--	--	--	--	--	--	--	--	ND	--
EPA MCL = 5 ug/L	ug/L	04/03/95	5	1	ND	ND	ND	ND	--	--	--	--	--	--	--	--	ND	--
	ug/L	10/30/95	--	1	ND	ND	ND	ND	--	--	--	--	--	--	--	--	ND	--
	ug/L	04/08/96	--	1	ND	ND	ND	ND	--	--	--	--	--	--	--	--	ND	--
	ug/L	10/24/96	--	1	ND	--	ND	ND	--	--	--	--	--	--	--	--	ND	--
	ug/L	04/15/97	--	1	ND	--	ND	ND	--	--	--	--	--	--	--	--	ND	--
	ug/L	10/29/97	--	1	ND	ND	2	ND	--	--	--	--	--	--	--	--	2	--
	ug/L	05/14/98	--	1	ND	ND	ND	ND	--	--	--	--	--	--	--	--	ND	--
	ug/L	10/11/98	--	1	ND	ND	ND	ND	--	--	--	--	--	--	--	--	ND	--
	ug/L	06/04/99	--	1	ND	ND	ND	ND	--	--	--	--	--	--	--	--	ND	--
	ug/L	10/29/99	--	1	ND	ND	ND	ND	--	--	--	--	--	--	--	--	ND	--
	ug/L	04/20/00	--	1	ND	ND	ND	6	ND	--	--	--	--	--	--	--	ND	--
	ug/L	11/07/00	--	1	ND	ND	ND	ND	--	--	--	--	--	--	--	--	ND	--
	ug/L	02/27/01	--	1	--	--	--	--	--	--	--	--	ND	ND	ND	ND	--	--
	ug/L	05/15/01	--	1	ND	ND	ND	14	--	--	--	--	--	--	--	--	ND	--
	ug/L	10/16/01	--	1	ND	ND	ND	8	--	--	--	--	--	--	--	--	ND	--
	ug/L	04/24/02	--	1	ND	ND	ND	20	ND	--	--	--	--	--	--	--	ND	--
	ug/L	10/01/02	5	1	ND	ND	ND	13	ND	--	--	--	--	--	--	--	ND	--
	ug/L	04/09/03	5	1	ND	ND	ND	27	ND	--	--	--	--	--	--	--	ND	--
	ug/L	10/20/03	5	1	ND	ND	ND	26	ND	--	--	--	--	--	--	--	ND	--
	ug/L	03/24/04	5	1	ND	ND	ND	13	ND	--	--	--	--	--	--	--	ND	--
	ug/L	10/27/04	5	1	ND	ND	ND	17.5	ND	--	--	--	--	--	--	--	ND	--
	ug/L	05/25/05	5	1	ND	ND	ND	--	ND	--	--	--	--	--	--	--	ND	--
	ug/L	10/04/05	5	1	ND	ND	ND	5	ND	ND	--	--	--	--	--	--	ND	--
	ug/L	04/25/06	5	1	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	ND	--
	ug/L	10/04/06	5	1	ND	ND	ND	7	ND	ND	--	--	--	--	--	--	ND	ND
	ug/L	03/21/07	5	1	ND	ND	0.48 J	12	ND	0.31 J	--	--	--	--	--	--	ND	ND
	ug/L	10/02/07	5	1	ND	ND	0.41 J	15.5	ND	0.3 J	--	--	--	--	--	--	ND	ND
	ug/L	04/03/08	5	1	ND	ND	0.47 J	18.1	ND	0.28 J	0.30 J	ND	ND	ND	0.850 J	--	ND	ND
	ug/L	10/29/08	5	1	ND	ND	0.32 J	18.2	ND	0.33 J	0.45 J	ND	--	--	--	--	0.16 J	ND
	ug/L	03/24/09	0.38	1	ND	ND	ND	3.1	ND	ND	ND	ND	--	--	--	--	ND	ND
	ug/L	09/22/09	0.38	1	ND	ND	ND	9.5	ND	ND	ND	ND	ND	ND	ND	--	--	ND
	ug/L	03/22/10	0.13	1	ND	Dry	ND	ND	ND	ND	0.44 J	ND	--	--	--	1.6	--	ND
	ug/L	09/23/10	0.38	1	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	--	ND
	ug/L	03/16/11	0.72	1	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	--	ND
	ug/L	09/21/11	0.72	1	ND	ND	ND	1.1	ND	ND	ND	ND	--	--	--	--	--	ND
	ug/L	03/21/12	0.15	1	ND	ND	ND	0.70 J	ND	ND	ND	ND	--	--	--	--	ND	ND
	ug/L	09/20/12	0.15	1	ND	ND	ND	1.6	ND	ND	ND	ND	--	--	--	--	--	ND
	ug/L	03/20/13	0.15	1	ND	ND	ND	3.9	ND	ND	ND	ND	--	--	--	--	ND	ND
	ug/L	09/18/13	0.15	1	ND	ND	ND	1.3	ND	ND	ND	ND	--	--	--	--	--	ND
	ug/L	03/27/14	0.15	1	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	ND	ND
	ug/L	09/18/14	0.15	1	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	--	ND
	ug/L	03/18/15	0.15	1	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	ND	ND

TABLE 7

Summary of Detected Constituents in MSW Monitoring Wells
Henderson County Closed MSW Landfill, Permit No. 45-01

Detected Monitoring Constituent/Parameter	Units	Date	MDL	SWS Reporting Limit	Upgradient Compliance Well	Downgradient Compliance Wells			Assessment Wells				Non-Compliance Wells				TVA Well	Blanks
					MW-5	MW-6	MW-7	MW-8	AMW-1S	AMW-1D	AMW-2S	AMW-2D	Old MW-1	MW-1	Old MW-2	MW-2	MW-9	
1,1,2-Trichloroethane	ug/L	12/05/94	0.2	1	ND	ND	ND	ND	--	--	--	--	--	--	--	--	ND	--
SWS GPS = 0.6 ug/L	ug/L	02/14/95	5	1	ND	ND	ND	ND	--	--	--	--	--	--	--	--	ND	--
EPA MCL = 5 ug/L	ug/L	04/03/95	5	1	ND	ND	ND	ND	--	--	--	--	--	--	--	--	ND	--
	ug/L	10/30/95	5	1	ND	ND	ND	ND	--	--	--	--	--	--	--	--	ND	--
	ug/L	04/08/96	5	1	ND	ND	ND	ND	--	--	--	--	--	--	--	--	ND	--
	ug/L	10/24/96	--	1	ND	--	ND	ND	--	--	--	--	--	--	--	--	ND	--
	ug/L	04/15/97	--	1	ND	--	ND	ND	--	--	--	--	--	--	--	--	ND	--
	ug/L	10/29/97	--	1	ND	ND	ND	ND	--	--	--	--	--	--	--	--	ND	--
	ug/L	05/14/98	--	1	ND	ND	ND	ND	--	--	--	--	--	--	--	--	ND	--
	ug/L	10/11/98	--	1	ND	ND	ND	ND	--	--	--	--	--	--	--	--	ND	--
	ug/L	06/04/99	--	1	ND	ND	ND	ND	--	--	--	--	--	--	--	--	ND	--
	ug/L	10/29/99	--	1	ND	ND	ND	ND	--	--	--	--	--	--	--	--	ND	--
	ug/L	04/20/00	--	1	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	ND	--
	ug/L	11/07/00	--	1	ND	ND	ND	ND	--	--	--	--	--	--	--	--	ND	--
	ug/L	02/27/01	--	1	--	--	--	--	--	--	--	--	ND	ND	ND	ND	--	--
	ug/L	05/15/01	--	1	ND	ND	ND	ND	--	--	--	--	--	--	--	--	ND	--
	ug/L	10/16/01	--	1	ND	ND	ND	ND	--	ND	--	--	--	--	--	--	ND	--
	ug/L	04/24/02	--	1	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	ND	--
	ug/L	10/01/02	--	1	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	ND	--
	ug/L	04/09/03	--	1	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	ND	--
	ug/L	10/20/03	--	1	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	ND	--
	ug/L	03/24/04	5	1	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	ND	--
	ug/L	10/27/04	5	1	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	ND	--
	ug/L	05/25/05	5	1	ND	ND	ND	--	ND	ND	--	--	--	--	--	--	ND	--
	ug/L	10/04/05	5	1	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	ND	--
	ug/L	04/25/06	5	1	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	ND	--
	ug/L	10/04/06	5	1	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	ND	ND
	ug/L	03/21/07	5	1	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	ND	ND
	ug/L	10/02/07	5	1	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	ND	ND
	ug/L	04/03/08	5	1	ND	ND	ND	**2.77**	ND	ND	ND	ND	ND	ND	ND	--	ND	ND
	ug/L	10/29/08	5	1	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	ND	ND
	ug/L	03/24/09	0.37	1	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	ND	ND
	ug/L	09/22/09	0.37	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	--	ND
	ug/L	03/22/10	0.068	1	ND	Dry	ND	ND	ND	ND	ND	ND	--	--	--	ND	--	ND
	ug/L	09/23/10	0.37	1	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	--	ND
	ug/L	03/16/11	0.66	1	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	--	ND
	ug/L	09/21/11	0.66	1	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	--	ND
	ug/L	03/21/12	0.14	1	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	ND	ND
	ug/L	09/20/12	0.14	1	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	--	ND
	ug/L	03/20/13	0.14	1	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	ND	ND
	ug/L	09/18/13	0.14	1	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	--	ND
	ug/L	03/27/14	0.14	1	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	ND	ND
	ug/L	09/18/14	0.14	1	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	--	ND
	ug/L	03/18/15	0.14	1	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	ND	ND
Trichlorofluoromethane	ug/L	12/05/94	5	1	ND	ND	ND	ND	--	--	--	--	--	--	--	--	ND	--
NC 2L = 2000 ug/L	ug/L	02/14/95	5	1	ND	ND	ND	ND	--	--	--	--	--	--	--	--	ND	--
EPA MCL = No Standard	ug/L	04/03/95	5	1	ND	ND	ND	ND	--	--	--	--	--	--	--	--	ND	--
	ug/L	10/30/95	5	1	ND	ND	ND	ND	--	--	--	--	--	--	--	--	ND	--
	ug/L	04/08/96	5	1	ND	ND	ND	ND	--	--	--	--	--	--	--	--	ND	--
	ug/L	10/24/96	--	1	ND	--	ND	ND	--	--	--	--	--	--	--	--	ND	--
	ug/L	04/15/97	--	1	ND	--	ND	ND	--	--	--	--	--	--	--	--	ND	--
	ug/L	10/29/97	--	1	ND	ND	ND	ND	--	--	--	--	--	--	--	--	ND	--
	ug/L	05/14/98	--	1	ND	ND	ND	ND	--	--	--	--	--	--	--	--	ND	--
	ug/L	10/11/98	--	1	ND	ND	ND	ND	--	--	--	--	--	--	--	--	ND	--
	ug/L	06/04/99	--	1	ND	ND	ND	13	--	--	--	--	--	--	--	--	ND	--
	ug/L	10/29/99	--	1	ND	ND	ND	7	--	--	--	--	--	--	--	--	ND	--
	ug/L	04/20/00	--	1	ND	ND	ND	10	ND	--	--	--	--	--	--	--	ND	--
	ug/L	11/07/00	--	1	ND	ND	ND	15	--	--	--	--	--	--	--	--	ND	--
	ug/L	02/27/01	--	1	--	--	--	--	--	--	--	--	ND	ND	ND	ND	--	--
	ug/L	05/15/01	--	1	ND	ND	ND	14	--	--	--	--	--	--	--	--	ND	--
	ug/L	10/16/01	--	1	ND	ND	ND	19	--	ND	--	--	--	--	--	--	ND	--
	ug/L	04/24/02	--	1	ND	ND	ND	13	ND	ND	--	--	--	--	--	--	ND	--
	ug/L	10/01/02	--	1	ND	ND	ND	15	ND	ND	--	--	--	--	--	--	ND	--
	ug/L	04/09/03	--	1	ND	ND	ND	8	ND	ND	--	--	--	--	--	--	ND	--
	ug/L	10/20/03	--	1	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	ND	--
	ug/L	03/24/04	5	1	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	ND	--
	ug/L	10/27/04	5	1	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	ND	--
	ug/L	05/25/05	5	1	ND	ND	ND	--	ND	ND	--	--	--	--	--	--	ND	--
	ug/L	10/04/05	5	1	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	ND	--
	ug/L	04/25/06	5	1	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	ND	--
	ug/L	10/04/06	5	1	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	ND	ND
	ug/L	03/21/07	5	1	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	ND	ND
	ug/L	10/02/07	5	1	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	2.23 J	ND
	ug/L	04/03/08	5	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	1.63 J	ND
	ug/L	10/29/08	5	1	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	4.43	ND
	ug/L	03/24/09	0.28	1	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	2.2	ND
	ug/L	09/22/09	0.28	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	--	ND
	ug/L	03/22/10	0.15	1	ND	Dry	ND	ND	ND	ND	ND	ND	--	--	--	ND	--	ND
	ug/L	09/23/10	0.28	1	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	--	ND
	ug/L	03/16/11	0.66	1	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	--	ND
	ug/L	09/21/11	0.66	1	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	--	ND
	ug/L	03/21/12	0.24	1	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	ND	ND
	ug/L	09/20/12	0.24	1	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	--	ND
	ug/L	03/20/13	0.24	1	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	ND	ND
	ug/L	09/18/13	0.24	1	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	--	ND
	ug/L	03/27/14	0.24	1	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	ND	ND
	ug/L	09/18/14	0.24	1	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	--	ND
	ug/L	03/18/15	0.24	1	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	ND	ND
Vinyl acetate	ug/L	12/05/94	--	50	ND	ND	ND	ND	--	--	--	--	--	--	--	--	ND	--
SWS GPS = 88 ug/L	ug/L	02/14/95	--	50	ND	ND	ND	ND	--	--	--	--	--	--	--	--	ND	--
EPA MCL = No Standard	ug/L	04/03/95	--	50	ND	ND	ND	ND	--	--	--	--	--	--	--	--	ND	--
	ug/L	10/30/95	--	50	ND	ND	ND	ND	--	--	--	--	--	--	--	--	ND	--
	ug/L	04/08/96	--	50	ND	ND	ND	ND	--	--	--	--	--	--	--	--	ND	--
	ug/L	10/24/96	--	50	ND	--	ND	ND	--	--	--	--	--	--	--	--	ND	--
	ug/L	04/15/97	--	50	ND	--	ND	ND	--	--	--	--	--	--	--	--	ND	--
	ug/L	10/29/97	--	50	ND	ND	ND	ND	--	--	--	--	--	--	--	--	ND	--
	ug/L	05/14/98	--	50	ND	ND	ND	ND	--	--	--	--	--	--	--	--	ND	--
	ug/L	10/11/98	--	50	ND	ND	ND	ND	--	--	--	--	--	--	--	--	ND	--
	ug/L	06/04/99	--	50	ND	ND	ND	ND	--	--	--	--	--	--	--	--	ND	--
	ug/L	10/29/99	--	50	ND	ND	ND	ND	--	--	--	--	--	--	--	--	ND	--
	ug/L	04/20/00	--	50	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	ND	--
	ug/L	11/07/00	--	50	ND	ND	ND	ND	--	--	--	--	--	--	--	--	ND	--
	ug/L	02/27/01	--	50	--	--	--	--	--	--	--	--	ND	ND	ND	ND	--	--
	ug/L	05/15/01	--	50	ND	ND	ND	ND	--	--	--	--	--	--	--	--	ND	--
	ug/L	10/16/01	--	50	ND	ND	ND	ND	--	ND	--	--	--	--	--	--	ND	--
	ug/L	04/24/02	--	50	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	ND	--
	ug/L	10/01/02	--	50	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	ND	--
	ug/L	04/09/03	--	50	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	ND	--
	ug/L	10/20/03	--	50	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	ND	--
	ug/L	03/24/04	--	50	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	ND	--
	ug/L	10/27/04	--	50	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	ND	--
	ug/L	05/25/05	--	50	ND	ND	ND	--	ND	ND	--	--	--	--	--	--	ND	--
	ug/L	10/04/05	--	50	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	ND	--
	ug/L	04/25/06	--	50	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	ND	--
	ug/L	10/04/06	--	50	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	ND	ND
	ug/L	03/21/07	--	50	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	ND	ND
	ug/L	10/02/07	--	50	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	ND	ND
	ug/L	04/03/08	--	50	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	ND	ND
	ug/L	10/29/08	--	50	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	ND	ND
	ug/L	03/24/09	0.98	50	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	ND	ND
	ug/L	09/22/09	0.98	50	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	--	ND
	ug/L	03/22/10	0.98	50	ND	Dry	ND	ND	ND	ND	ND	ND	--	--	--	ND	--	ND
	ug/L	09/23/10	0.98	50	ND	ND	ND	ND	ND	ND	ND	ND					--	ND
	ug/L	03/16/11	0.95	50	ND	ND	ND	ND	ND	ND	ND	ND					--	ND
	ug/L	09/21/11	0.95	50	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	--	ND
	ug/L	03/21/12	0.95	50	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	ND	ND
	ug/L	09/20/12	0.95	50	ND	ND	ND	3.2 J	ND	ND	ND	ND	--	--	--	--	--	ND
	ug/L	03/20/13	0.95	50	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	ND	ND
	ug/L	09/18/13	0.95	50	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	--	ND
	ug/L	03/27/14	0.95	50	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	ND	ND
	ug/L	09/18/14	0.95	50	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	--	ND
	ug/L	03/18/15	0.95	50	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	ND	ND
Vinyl chloride	ug/L	12/05/94	10	1	ND	ND	ND	ND	--	--	--	--	--	--	--	--	ND	--
NC 2L = 0.03 ug/L	ug/L	02/14/95	10	1	ND	ND	ND	ND	--	--	--	--	--	--	--	--	ND	--
EPA MCL = 2 ug/L	ug/L	04/03/95	10	1	ND	ND	ND	ND	--	--	--	--	--	--	--	--	ND	--
	ug/L	10/30/95	--	1	ND	ND	ND	ND	--	--	--	--	--	--	--	--	ND	--
	ug/L	04/08/96	--	1	ND	ND	ND	ND	--	--	--	--	--	--	--	--	ND	--
	ug/L	10/24/96	--	1	ND	--	ND	ND	--	--	--	--	--	--	--	--	ND	--
	ug/L	04/15/97	--	1	ND	--	ND	ND	--	--	--	--	--	--	--	--	ND	--
	ug/L	10/29/97	--	1	ND	**2**	**5**	**2**	--	--	--	--	--	--	--	--	**1**	--
	ug/L	05/14/98	--	1	ND	ND	ND	ND	--	--	--	--	--	--	--	--	ND	--
	ug/L	10/11/98	--	1	ND	ND	ND	ND	--	--	--	--	--	--	--	--	ND	--
	ug/L	06/04/99	--	1	ND	ND	ND	ND	--	--	--	--	--	--	--	--	ND	--
	ug/L	10/29/99	--	1	ND	ND	ND	ND	--	--	--	--	--	--	--	--	ND	--
	ug/L	04/20/00	--	1	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	ND	--
	ug/L	11/07/00	--	1	ND	ND	ND	ND	--	--	--	--	--	--	--	--	ND	--
	ug/L	02/27/01	--	1	--	--	--	--	--	--	--	--	ND	ND	ND	ND	--	--
	ug/L	05/15/01	--	1	ND	ND	ND	ND	--	--	--	--	--	--	--	--	ND	--
	ug/L	10/16/01	--	1	ND	ND	ND	ND	--	ND	--	--	--	--	--	--	ND	--
	ug/L	04/24/02	--	1	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	ND	--
	ug/L	10/01/02	--	1	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	ND	--
	ug/L	04/09/03	--	1	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	ND	--
	ug/L	10/20/03	--	1	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	ND	--
	ug/L	03/24/04	10	1	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	ND	--
	ug/L	10/27/04	10	1	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	ND	--
	ug/L	05/25/05	10	1	ND	ND	ND	--	ND	ND	--	--	--	--	--	--	ND	--
	ug/L	10/04/05	10	1	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	ND	--
	ug/L	04/25/06	10	1	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	ND	--
	ug/L	10/04/06	10	1	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	ND	ND
	ug/L	03/21/07	10	1	ND	**0.43 J**	**2.35**	ND	ND	**0.94 J**	--	--	--	--	--	--	ND	ND
	ug/L	10/02/07	10	1	ND	**1.03 J**	**2.68 J**	**0.31 J**	ND	**0.89 J**	--	--	--	--	--	--	ND	ND
	ug/L	04/03/08	10	1	ND	ND	**2.94 J**	ND	ND	**0.98 J**	**0.59 J**	ND	ND	ND	**0.640 J**	--	ND	ND
	ug/L	10/29/08	10	1	ND	**0.25 J**	**2.36**	**0.49 J**	ND	**0.82 J**	**0.57 J**	ND	--	--	--	--	ND	ND
	ug/L	03/24/09	0.30	1	ND	ND	**1.5**	ND	ND	**0.60 J**	**0.53 J**	ND	--	--	--	--	ND	ND
	ug/L	09/22/09	0.30	1	ND	ND	**1.4**	ND	ND	**0.67 J**	ND	ND	ND	ND	ND	--	--	ND
	ug/L	03/22/10	0.083	1	ND	Dry	**1.2**	ND	ND	**0.60 J**	ND	ND	--	--	--	**0.74 J**	--	ND
	ug/L	09/23/10	0.30	1	ND	ND	**1.2**	ND	ND	ND	ND	ND	--	--	--	--	--	ND
	ug/L	03/16/11	0.60	1	ND	ND	**1.3**	ND	ND	ND	ND	ND	--	--	--	--	--	ND
	ug/L	09/21/11	0.60	1	ND	ND	**1.5**	ND	ND	**0.76 J**	ND	ND	--	--	--	--	--	ND
	ug/L	03/21/12	0.32	1	ND	ND	**0.88 J**	ND	ND	ND	**0.55 J**	ND	--	--	--	--	ND	ND
	ug/L	09/20/12	0.32	1	ND	ND	ND	ND	ND	**0.57 J**	**0.61 J**	ND	--	--	--	--	--	ND
	ug/L	03/20/13	0.32	1	ND	ND	**1.0**	**0.77 J**	ND	**0.50 J**	**0.49 J**	ND	--	--	--	--	ND	ND
	ug/L	09/18/13	0.32	1	ND	ND	**0.81 J**	ND	ND	**0.48 J**	**0.48 J**	ND	--	--	--	--	--	ND
	ug/L	03/27/14	0.32	1	ND	ND	**1.1**	ND	ND	**0.64 J**	ND	ND	--	--	--	--	ND	ND
	ug/L	09/18/14	0.32	1	ND	ND	**1.1**	ND	ND	**0.54 J**	ND	ND	--	--	--	--	--	ND
	ug/L	03/18/15	0.32	1	ND	ND	**0.88 J**	ND	ND	**0.46 J**	ND	ND	--	--	--	--	ND	ND

TABLE 7

Summary of Detected Constituents in MSW Monitoring Wells
Henderson County Closed MSW Landfill, Permit No. 45-01

Detected Monitoring Constituent/Parameter	Units	Date	MDL	SWS Reporting Limit	Upgradient Compliance Well	Downgradient Compliance Wells			Assessment Wells				Non-Compliance Wells				TVA Well	Blanks
					MW-5	MW-6	MW-7	MW-8	AMW-1S	AMW-1D	AMW-2S	AMW-2D	Old MW-1	MW-1	Old MW-2	MW-2	MW-9	
Xylenes (Total)	ug/L	12/05/94	5	5	ND	70	ND	130		--	--	--	--	--	--	--	ND	--
NC 2L = 500 ug/L	ug/L	02/14/95	5	5	ND	68	ND	ND	--	--	--	--	--	--	--	--	ND	--
EPA MCL = 10000 ug/L	ug/L	04/03/95	5	5	ND	45	ND	47	--	--	--	--	--	--	--	--	ND	--
	ug/L	10/30/95	5	5	ND	40	ND	40	--	--	--	--	--	--	--	--	ND	--
	ug/L	04/08/96	5	5	ND	46	ND	35	--	--	--	--	--	--	--	--	ND	--
	ug/L	10/24/96	--	5	ND	--	ND	19	--	--	--	--	--	--	--	--	ND	--
	ug/L	04/15/97	--	5	ND	--	ND	44	--	--	--	--	--	--	--	--	ND	--
	ug/L	10/29/97	--	5	ND	12	1	3	--	--	--	--	--	--	--	--	ND	--
	ug/L	05/14/98	--	5	ND	65	ND	17	--	--	--	--	--	--	--	--	ND	--
	ug/L	10/11/98	--	5	ND	ND	ND	5	--	--	--	--	--	--	--	--	ND	--
	ug/L	06/04/99	--	5	ND	55	ND	9	--	--	--	--	--	--	--	--	ND	--
	ug/L	10/29/99	--	5	ND	8	ND	6	--	--	--	--	--	--	--	--	ND	--
	ug/L	04/20/00	--	5	ND	10	ND	ND	ND	--	--	--	--	--	--	--	ND	--
	ug/L	11/07/00	--	5	ND	ND	ND	ND	--	--	--	--	--	--	--	--	ND	--
	ug/L	02/27/01	--	5	--	--	--	--	--	--	--	--	ND	ND	ND	ND	--	--
	ug/L	05/15/01	--	5	ND	27	ND	ND	--	--	--	--	--	--	--	--	ND	--
	ug/L	10/16/01	--	5	ND	17	ND	ND	--	ND	--	--	--	--	--	--	ND	--
	ug/L	04/24/02	--	5	ND	40	ND	14	ND	ND	--	--	--	--	--	--	ND	--
	ug/L	10/01/02	--	5	ND	8	ND	9	ND	ND	--	--	--	--	--	--	ND	--
	ug/L	04/09/03	--	5	ND	ND	ND	15	ND	ND	--	--	--	--	--	--	ND	--
	ug/L	10/20/03	--	5	ND	27	ND	14	ND	ND	--	--	--	--	--	--	ND	--
	ug/L	03/24/04	--	5	ND	48	ND	10	ND	ND	--	--	--	--	--	--	ND	--
	ug/L	10/27/04	5	5	ND	70	ND	18	ND	ND	--	--	--	--	--	--	ND	--
	ug/L	05/25/05	5	5	ND	55	ND	--	ND	ND	--	--	--	--	--	--	ND	--
	ug/L	10/04/05	5	5	ND	81	ND	12	ND	ND	--	--	--	--	--	--	ND	--
	ug/L	04/25/06	5	5	ND	48	ND	12	ND	ND	--	--	--	--	--	--	ND	--
	ug/L	10/04/06	5	5	ND	59	ND	14	ND	ND	--	--	--	--	--	--	ND	ND
	ug/L	03/21/07	5	5	ND	2.74	ND	29.5	ND	ND	--	--	--	--	--	--	ND	ND
	ug/L	10/02/07	5	5	ND	4.54	ND	34	ND	ND	--	--	--	--	--	--	ND	ND
	ug/L	04/03/08	5	5	ND	ND	ND	40.6	ND	ND	ND	ND	ND	ND	0.710 J	--	ND	ND
	ug/L	10/29/08	5	5	ND	0.86 J	ND	39.8	ND	ND	ND	ND	--	--	--	--	ND	ND
	ug/L	03/24/09	0.40	5	ND	ND	ND	8.3	ND	ND	ND	ND	--	--	--	--	ND	ND
	ug/L	09/22/09	0.40	5	ND	ND	ND	19	ND	ND	ND	ND	ND	ND	ND	--	--	ND
	ug/L	03/22/10	0.22	5	ND	Dry	ND	ND	ND	ND	ND	ND	--	--	--	ND	--	ND
	ug/L	09/23/10	0.40	5	ND	5.4	ND	ND	ND	ND	ND	ND	--	--	--	--	--	ND
	ug/L	03/16/11	2.1	5	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	--	ND
	ug/L	09/21/11	2.1	5	ND	3.6 J	ND	2.5 J	ND	ND	ND	ND	--	--	--	--	--	ND
	ug/L	03/21/12	0.45	5	ND	ND	ND	0.98 J	ND	ND	ND	ND	--	--	--	--	ND	ND
	ug/L	09/20/12	0.45	5	ND	ND	ND	2.2 J	ND	ND	ND	ND	--	--	--	--	--	ND
	ug/L	03/20/13	0.45	5	ND	ND	ND	6.3	ND	ND	ND	ND	--	--	--	--	ND	ND
	ug/L	09/18/13	0.45	5	ND	0.81 J	ND	1.8 J	ND	ND	ND	ND	--	--	--	--	--	ND
	ug/L	03/27/14	0.45	5	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	ND	ND
	ug/L	09/18/14	0.45	5	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	--	ND
	ug/L	03/18/15	0.45	5	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	ND	ND
2-Methylphenol	ug/L	12/05/94	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SWS GPS = 400 ug/L	ug/L	02/14/95	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EPA MCL = No Standard	ug/L	04/03/95	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	ug/L	10/30/95	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	ug/L	04/08/96	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	ug/L	05/29/96	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	ug/L	06/06/96	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	ug/L	10/24/96	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	ug/L	04/15/97	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	ug/L	10/29/97	--	--	ND	120	ND	ND	--	--	--	--	--	--	--	--	ND	--
	ug/L	05/14/98	--	--	ND	170	ND	ND	--	--	--	--	--	--	--	--	ND	--
	ug/L	10/11/98	--	--	ND	ND	ND	ND	--	--	--	--	--	--	--	--	ND	--
	ug/L	06/04/99	--	--	ND	200	ND	ND	--	--	--	--	--	--	--	--	ND	--
	ug/L	10/29/99	--	--	ND	ND	ND	ND	--	--	--	--	--	--	--	--	ND	--
	ug/L	04/20/00	--	--	ND	52	ND	ND	ND	--	--	--	--	--	--	--	ND	--
	ug/L	11/07/00	--	--	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	ND	--
	ug/L	02/27/01	--	--	--	--	--	--	--	--	--	--	ND	ND	ND	ND	--	--
	ug/L	05/15/01	--	--	ND	14	ND	ND	ND	--	--	--	--	--	--	--	ND	--
	ug/L	10/16/01	--	--	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	ND	--
	ug/L	04/24/02	--	--	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	ND	--
	ug/L	10/01/02	--	--	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	ND	--
	ug/L	04/09/03	--	--	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	ND	--
	ug/L	10/20/03	--	--	ND	38	ND	ND	ND	ND	--	--	--	--	--	--	ND	--
	ug/L	03/24/04	--	--	ND	**2440**	ND	ND	ND	ND	--	--	--	--	--	--	ND	--
	ug/L	10/27/04	5	--	ND	**2240**	ND	ND	ND	ND	--	--	--	--	--	--	ND	--
	ug/L	05/25/05	5	--	ND	278	ND	ND	ND	ND	--	--	--	--	--	--	ND	--
	ug/L	10/04/05	5	--	ND	28.6	ND	ND	ND	ND	--	--	--	--	--	--	ND	--
	ug/L	04/25/06	5	--	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	ND	--
	ug/L	10/04/06	5	--	ND	82.8	ND	ND	ND	ND	--	--	--	--	--	--	ND	--
	ug/L	03/21/07	5	--	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	ND	--
	ug/L	10/02/07	5	--	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	ND	--
	ug/L	04/03/08	5	--	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	ND	--
	ug/L	10/30/08	5	--	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	03/24/09	2.0	10	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	ND	ND
	ug/L	09/22/09	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	ug/L	03/22/10	2.0	10	ND	Dry	ND	ND	--	--	--	--	--	--	--	--	--	ND
	ug/L	09/23/10	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	ug/L	03/16/11	1.4	10	ND	ND	ND	ND	--	--	--	--	--	--	--	--	--	ND
	ug/L	09/21/11	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	ug/L	03/21/12	1.4	10	ND	ND	ND	ND	--	--	--	--	--	--	--	--	--	ND
	ug/L	09/20/12	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	ug/L	03/20/13	1.4	10	ND	ND	ND	ND	--	--	--	--	--	--	--	--	--	ND
	ug/L	09/18/13	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	ug/L	03/27/14	1.4	10	ND	ND	ND	ND	--	--	--	--	--	--	--	--	--	ND
	ug/L	09/18/14	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	ug/L	03/18/15	1.4	10	ND	ND	ND	ND	--	--	--	--	--	--	--	--	--	ND
Diethylphthalate	ug/L	12/05/94	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
NC 2L = 6000 ug/L	ug/L	02/14/95	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EPA MCL = No Standard	ug/L	04/03/95	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	ug/L	10/30/95	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	ug/L	06/06/96	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	ug/L	10/24/96	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	ug/L	04/15/97	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	ug/L	10/29/97	--	--	ND	ND	ND	ND	--	--	--	--	--	--	--	--	ND	--
	ug/L	05/14/98	--	--	ND	ND	ND	ND	--	--	--	--	--	--	--	--	ND	--
	ug/L	10/11/98	--	--	ND	ND	ND	ND	--	--	--	--	--	--	--	--	ND	--
	ug/L	06/04/99	--	--	ND	ND	ND	ND	--	--	--	--	--	--	--	--	ND	--
	ug/L	10/29/99	--	--	ND	ND	ND	ND	--	--	--	--	--	--	--	--	ND	--
	ug/L	04/20/00	--	--	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	ND	--
	ug/L	11/07/00	--	--	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	ND	--
	ug/L	02/27/01	--	--	--	--	--	--	--	--	--	--	ND	ND	ND	ND	--	--
	ug/L	05/15/01	--	--	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	ND	--
	ug/L	10/16/01	--	--	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	ND	--
	ug/L	04/24/02	--	--	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	ND	--
	ug/L	10/01/02	--	--	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	ND	--
	ug/L	04/09/03	--	--	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	ND	--
	ug/L	10/20/03	--	--	ND	19	ND	ND	ND	ND	--	--	--	--	--	--	ND	--
	ug/L	03/24/04	--	--	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	ND	--
	ug/L	10/27/04	5	--	ND	35.9	ND	ND	ND	ND	--	--	--	--	--	--	ND	--
	ug/L	05/25/05	5	--	ND	140	ND	ND	ND	ND	--	--	--	--	--	--	ND	--
	ug/L	10/04/05	5	--	ND	548	ND	ND	ND	ND	--	--	--	--	--	--	ND	--
	ug/L	04/25/06	5	--	ND	101	ND	ND	ND	ND	--	--	--	--	--	--	ND	--
	ug/L	10/04/06	5	--	ND	86.6	ND	ND	ND	ND	--	--	--	--	--	--	ND	--
	ug/L	03/21/07	5	--	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	ND	--
	ug/L	10/02/07	5	--	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	ND	--
	ug/L	04/03/08	5	--	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	ND	--
	ug/L	10/30/08	--	--	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	03/24/09	1.3	10	ND	ND	ND	ND	ND	ND	1.5 J	ND	--	--	--	--	ND	ND
	ug/L	09/22/09	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	ug/L	03/22/10	0.61	10	ND	Dry	ND	ND	--	--	--	--	--	--	--	--	--	ND
	ug/L	09/23/10	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	ug/L	03/16/11	2.1	6000	ND	ND	ND	ND	--	--	--	--	--	--	--	--	--	ND
	ug/L	09/21/11	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	ug/L	03/21/12	2.1	6000	ND	3.1 B	ND	ND	--	--	--	--	--	--	--	--	--	ND
	ug/L	09/20/12	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	ug/L	03/20/13	2.1	10	ND	ND	ND	ND	--	--	--	--	--	--	--	--	--	ND
	ug/L	09/18/13	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	ug/L	03/27/14	2.1	10	ND	ND	ND	ND	--	--	--	--	--	--	--	--	--	ND
	ug/L	09/18/14	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	ug/L	03/18/15	2.1	10	ND	ND	ND	ND	--	--	--	--	--	--	--	--	--	ND
2,4-dimethylphenol	ug/L	12/05/94	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
NC 2L = 100 ug/L	ug/L	02/14/95	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EPA MCL = No Standard	ug/L	04/03/95	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	ug/L	10/30/95	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	ug/L	06/06/96	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	ug/L	10/24/96	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	ug/L	04/15/97	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	ug/L	10/29/97	--	--	ND	ND	ND	ND	--	--	--	--	--	--	--	--	ND	--
	ug/L	05/14/98	--	--	ND	ND	ND	ND	--	--	--	--	--	--	--	--	ND	--
	ug/L	10/11/98	--	--	ND	ND	ND	ND	--	--	--	--	--	--	--	--	ND	--
	ug/L	06/04/99	--	--	ND	ND	ND	ND	--	--	--	--	--	--	--	--	ND	--
	ug/L	10/29/99	--	--	ND	ND	ND	ND	--	--	--	--	--	--	--	--	ND	--
	ug/L	04/20/00	--	--	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	ND	--
	ug/L	11/07/00	--	--	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	ND	--
	ug/L	02/27/01	--	--	--	--	--	--	--	--	--	--	ND	ND	ND	ND	--	--
	ug/L	05/15/01	--	--	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	ND	--
	ug/L	10/16/01	--	--	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	ND	--
	ug/L	04/24/02	--	--	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	ND	--
	ug/L	10/01/02	--	--	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	ND	--
	ug/L	04/09/03	--	--	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	ND	--
	ug/L	10/20/03	--	--	ND	19	ND	ND	ND	ND	--	--	--	--	--	--	ND	--
	ug/L	03/24/04	--	--	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	ND	--
	ug/L	10/27/04	5	--	ND	35.9	ND	ND	ND	ND	--	--	--	--	--	--	ND	--
	ug/L	05/25/05	5	--	ND	**140**	ND	ND	ND	ND	--	--	--	--	--	--	ND	--
	ug/L	10/04/05	5	--	ND	**548**	ND	ND	ND	ND	--	--	--	--	--	--	ND	--
	ug/L	04/25/06	5	--	ND	**101**	ND	ND	ND	ND	--	--	--	--	--	--	ND	--
	ug/L	10/04/06	5	--	ND	86.6	ND	ND	ND	ND	--	--	--	--	--	--	ND	--
	ug/L	03/21/07	5	--	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	ND	--
	ug/L	10/02/07	5	--	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	ND	--
	ug/L	04/03/08	5	--	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	ND	--
	ug/L	10/30/08	5	--	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	03/24/09	3.0	10	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	ND	ND
	ug/L	09/22/09	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	ug/L	03/22/10	2.6	10	ND	Dry	ND	ND	--	--	--	--	--	--	--	--	--	ND
	ug/L	09/23/10	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	ug/L	03/16/11	1.3	10	ND	ND	ND	ND	--	--	--	--	--	--	--	--	--	ND
	ug/L	09/21/11	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	ug/L	03/21/12	1.3	10	ND	4.0 J	ND	ND	--	--	--	--	--	--	--	--	--	ND
	ug/L	09/20/12	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	ug/L	03/20/13	1.3	10	ND	ND	ND	ND	--	--	--	--	--	--	--	--	--	ND
	ug/L	09/18/13	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	ug/L	03/27/14	1.3	10	ND	ND	ND	ND	--	--	--	--	--	--	--	--	--	ND
	ug/L	09/18/14	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	ug/L	03/18/15	1.3	10	ND	ND	ND	ND	--	--	--	--	--	--	--	--	--	ND

TABLE 7

Summary of Detected Constituents in MSW Monitoring Wells
Henderson County Closed MSW Landfill, Permit No. 45-01

Detected Monitoring Constituent/Parameter	Units	Date	MDL	SWS Reporting Limit	Upgradient Compliance Well	Downgradient Compliance Wells			Assessment Wells				Non-Compliance Wells				TVA Well	Blanks
					MW-5	MW-6	MW-7	MW-8	AMW-1S	AMW-1D	AMW-2S	AMW-2D	Old MW-1	MW-1	Old MW-2	MW-2	MW-9	
Bis(2-ethylhexyl)phthalate	ug/L	12/05/94	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
NC 2L = 3 ug/L	ug/L	02/14/95	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EPA MCL = 6 ug/L	ug/L	04/03/95	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	ug/L	10/30/95	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	ug/L	06/06/96	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	ug/L	10/24/96	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	ug/L	04/15/97	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	ug/L	10/29/97	--	--	ND	ND	ND	ND	--	--	--	--	--	--	--	--	ND	--
	ug/L	05/14/98	--	--	ND	ND	ND	ND	--	--	--	--	--	--	--	--	ND	--
	ug/L	10/11/98	--	--	ND	ND	ND	ND	--	--	--	--	--	--	--	--	ND	--
	ug/L	06/04/99	--	--	ND	ND	ND	ND	--	--	--	--	--	--	--	--	ND	--
	ug/L	10/29/99	--	--	ND	ND	ND	ND	--	--	--	--	--	--	--	--	ND	--
	ug/L	04/20/00	--	--	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	ND	--
	ug/L	11/07/00	--	--	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	ND	--
	ug/L	02/27/01	--	--	--	--	--	--	--	--	--	--	ND	ND	ND	ND	--	--
	ug/L	05/15/01	--	--	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	ND	--
	ug/L	10/16/01	--	--	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	ND	--
	ug/L	04/24/02	--	--	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	ND	--
	ug/L	10/01/02	--	--	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	ND	--
	ug/L	04/09/03	--	--	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	ND	--
	ug/L	10/20/03	--	--	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	ND	--
	ug/L	03/24/04	--	--	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	ND	--
	ug/L	10/27/04	5	--	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	ND	--
	ug/L	05/25/05	5	--	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	ND	--
	ug/L	10/04/05	5	--	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	ND	--
	ug/L	04/25/06	5	--	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	ND	--
	ug/L	10/04/06	5	--	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	ND	--
	ug/L	03/21/07	5	--	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	ND	--
	ug/L	10/02/07	5	--	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	ND	--
	ug/L	04/03/08	5	--	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	ND	--
	ug/L	10/30/08	5	--	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	03/24/09	1.9	15	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	ND	ND
	ug/L	03/22/10	2.6	15	ND	Dry	ND	ND	--	--	--	--	--	--	--	--	--	ND
	ug/L	03/16/11	1.7	15	ND	ND	ND	ND	--	--	--	--	--	--	--	--	--	ND
	ug/L	09/21/11	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	ND
	ug/L	03/21/12	1.7	15	1.8 B	7.0 B	ND	ND	--	--	--	--	--	--	--	--	--	ND
	ug/L	09/20/12	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	ug/L	03/20/13	1.7	15	ND	ND	ND	ND	--	--	--	--	--	--	--	--	--	ND
	ug/L	09/18/13	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	ug/L	03/27/14	1.7	15	ND	**3.3** J	ND	ND	--	--	--	--	--	--	--	--	--	ND
	ug/L	09/18/14	1.7	15	ND	ND	ND	ND	--	--	--	--	--	--	--	--	--	ND
	ug/L	03/18/15	1.7	15	ND	ND	ND	ND	--	--	--	--	--	--	--	--	--	ND
Di-n-octylphthalate	ug/L	12/05/94	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
NC 2L = 100 ug/L	ug/L	02/14/95	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EPA MCL = No Standard	ug/L	04/03/95	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	ug/L	10/30/95	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	ug/L	06/06/96	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	ug/L	10/24/96	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	ug/L	04/15/97	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	ug/L	10/29/97	--	--	ND	ND	ND	ND	--	--	--	--	--	--	--	--	ND	--
	ug/L	05/14/98	--	--	ND	ND	ND	ND	--	--	--	--	--	--	--	--	ND	--
	ug/L	10/11/98	--	--	ND	ND	ND	ND	--	--	--	--	--	--	--	--	ND	--
	ug/L	06/04/99	--	--	ND	ND	ND	ND	--	--	--	--	--	--	--	--	ND	--
	ug/L	10/29/99	--	--	ND	ND	ND	ND	--	--	--	--	--	--	--	--	ND	--
	ug/L	04/20/00	--	--	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	ND	--
	ug/L	11/07/00	--	--	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	ND	--
	ug/L	02/27/01	--	--	--	--	--	--	--	--	--	--	ND	ND	ND	ND	--	--
	ug/L	05/15/01	--	--	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	ND	--
	ug/L	10/16/01	--	--	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	ND	--
	ug/L	04/24/02	--	--	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	ND	--
	ug/L	10/01/02	--	--	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	ND	--
	ug/L	04/09/03	--	--	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	ND	--
	ug/L	10/20/03	--	--	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	ND	--
	ug/L	03/24/04	--	--	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	ND	--
	ug/L	10/27/04	5	--	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	ND	--
	ug/L	05/25/05	5	--	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	ND	--
	ug/L	10/04/05	5	--	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	ND	--
	ug/L	04/25/06	5	--	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	ND	--
	ug/L	10/04/06	5	--	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	ND	--
	ug/L	03/21/07	5	--	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	ND	--
	ug/L	10/02/07	5	--	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	ND	--
	ug/L	04/03/08	5	--	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	ND	--
	ug/L	10/30/08	5	--	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	03/24/09	2.0	10	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	ND	ND
	ug/L	03/22/10	1.4	10	ND	Dry	ND	ND	--	--	--	--	--	--	--	--	--	ND
	ug/L	03/16/11	3.1	10	ND	ND	ND	ND	--	--	--	--	--	--	--	--	--	ND
	ug/L	09/21/11	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	ND
	ug/L	03/21/12	3.1	10	ND	6.6 J	ND	ND	--	--	--	--	--	--	--	--	--	ND
	ug/L	09/20/12	--	--	--	--	--	--	-	--	--	--	--	--	--	--	--	--
	ug/L	03/20/13	3.1	10	ND	ND	ND	ND	--	--	--	--	--	--	--	--	--	ND
	ug/L	09/18/13	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	ug/L	03/27/14	3.1	10	ND	ND	ND	ND	--	--	--	--	--	--	--	--	--	ND
	ug/L	09/18/14	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	ug/L	03/18/15	3.1	10	ND	ND	ND	ND	--	--	--	--	--	--	--	--	--	ND
Phenol	ug/L	12/05/94	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
NC 2L = 30 ug/L	ug/L	02/14/95	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EPA MCL = No Standard	ug/L	04/03/95	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	ug/L	10/30/95	5	--	ND	ND	ND	ND	--	--	--	--	--	--	--	--	ND	--
	ug/L	04/08/96	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	ug/L	05/29/96	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	ug/L	06/06/96	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	ug/L	10/24/96	--	--	ND	--	ND	ND	--	--	--	--	--	--	--	--	ND	--
	ug/L	04/15/97	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	ug/L	10/29/97	--	--	ND	**240**	ND	ND	--	--	--	--	--	--	--	--	ND	--
	ug/L	05/14/98	--	--	ND	**1400**	ND	ND	--	--	--	--	--	--	--	--	ND	--
	ug/L	10/11/98	--	--	ND	ND	ND	ND	--	--	--	--	--	--	--	--	ND	--
	ug/L	06/04/99	--	--	ND	**3100**	ND	ND	--	--	--	--	--	--	--	--	ND	--
	ug/L	10/29/99	--	--	ND	ND	ND	ND	--	--	--	--	--	--	--	--	ND	--
	ug/L	04/20/00	--	--	ND	**190**	ND	ND	15	--	--	--	--	--	--	--	ND	--
	ug/L	11/07/00	--	--	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	ND	--
	ug/L	02/27/01	--	--	--	--	--	--	--	--	--	--	ND	ND	ND	ND	--	--
	ug/L	05/15/01	--	--	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	ND	--
	ug/L	10/16/01	--	--	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	ND	--
	ug/L	04/24/02	--	--	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	ND	--
	ug/L	10/01/02	--	--	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	ND	--
	ug/L	04/09/03	--	--	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	ND	--
	ug/L	10/20/03	--	--	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	ND	--
	ug/L	03/24/04	--	--	ND	**13200**	ND	ND	ND	ND	--	--	--	--	--	--	ND	--
	ug/L	10/27/04	5	--	ND	**16400**	ND	ND	ND	ND	--	--	--	--	--	--	ND	--
	ug/L	05/25/05	5	--	ND	**105**	ND	ND	ND	ND	--	--	--	--	--	--	ND	--
	ug/L	10/04/05	5	--	ND	26.8	ND	ND	ND	ND	--	--	--	--	--	--	ND	--
	ug/L	04/25/06	5	--	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	ND	--
	ug/L	10/04/06	5	--	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	ND	--
	ug/L	03/21/07	5	--	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	ND	--
	ug/L	10/02/07	5	--	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	ND	--
	ug/L	04/03/08	5	--	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	ND	--
	ug/L	10/30/08	5	--	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	03/24/09	1.5	10	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	ND	ND
	ug/L	09/22/09	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	ug/L	03/22/10	1.2	10	ND	Dry	ND	ND	--	--	--	--	--	--	--	--	--	ND
	ug/L	09/23/10	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	ug/L	03/16/11	1.4	10	ND	ND	ND	ND	--	--	--	--	--	--	--	--	--	ND
	ug/L	09/21/11	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	ug/L	03/21/12	1.4	10	ND	ND	ND	ND	--	--	--	--	--	--	--	--	--	ND
	ug/L	09/20/12	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	ug/L	03/20/13	1.4	10	ND	ND	ND	ND	--	--	--	--	--	--	--	--	--	ND
	ug/L	09/18/13	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	ug/L	03/27/14	1.4	10	ND	ND	ND	ND	--	--	--	--	--	--	--	--	--	ND
	ug/L	09/18/14	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	ug/L	03/18/15	1.4	10	ND	ND	ND	ND	--	--	--	--	--	--	--	--	--	ND
3 &4-methylphenol	ug/L	12/05/94	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
NC 2L Standard = 400/40 ug/L	ug/L	02/14/95	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EPA MCL = No Standard	ug/L	04/03/95	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	ug/L	10/30/95	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	ug/L	04/08/96	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	ug/L	05/29/96	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	ug/L	06/06/96	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	ug/L	10/24/96	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	ug/L	04/15/97	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	ug/L	10/29/97	--	--	ND	**140**	ND	ND	--	--	--	--	--	--	--	--	ND	--
	ug/L	05/14/98	--	--	ND	**160**	ND	ND	--	--	--	--	--	--	--	--	ND	--
	ug/L	10/11/98	--	--	ND	ND	ND	ND	--	--	--	--	--	--	--	--	ND	--
	ug/L	06/04/99	--	--	ND	**260**	ND	ND	--	--	--	--	--	--	--	--	ND	--
	ug/L	10/29/99	--	--	ND	ND	ND	ND	--	--	--	--	--	--	--	--	ND	--
	ug/L	04/20/00	--	--	ND	**57**	ND	ND	ND	--	--	--	--	--	--	--	ND	--
	ug/L	11/07/00	--	--	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	ND	--
	ug/L	02/27/01	--	--	--	--	--	--	--	--	--	--	ND	ND	ND	ND	--	--
	ug/L	05/15/01	--	--	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	ND	--
	ug/L	10/16/01	--	--	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	ND	--
	ug/L	04/24/02	--	--	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	ND	--
	ug/L	10/01/02	--	--	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	ND	--
	ug/L	04/09/03	--	--	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	ND	--
	ug/L	10/20/03	--	--	ND	27	ND	ND	ND	ND	--	--	--	--	--	--	ND	--
	ug/L	03/24/04	--	--	ND	**1930**	ND	ND	ND	ND	--	--	--	--	--	--	ND	--
	ug/L	10/27/04	5	--	ND	**2880**	ND	ND	ND	ND	--	--	--	--	--	--	ND	--
	ug/L	05/25/05	5	--	ND	**398**	ND	ND	ND	ND	--	--	--	--	--	--	ND	--
	ug/L	10/04/05	5	--	ND	**109**	ND	ND	ND	ND	--	--	--	--	--	--	ND	--
	ug/L	04/25/06	5	--	ND	25.4	ND	ND	ND	ND	--	--	--	--	--	--	ND	--
	ug/L	10/04/06	5	--	ND	16.4	ND	ND	ND	ND	--	--	--	--	--	--	ND	--
	ug/L	03/21/07	5	--	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	ND	--
	ug/L	10/02/07	5	--	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	ND	--
	ug/L	04/03/08	5	--	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	ND	--
	ug/L	10/30/08	5	--	ND	4.26 J	ND	ND	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	03/24/09	1.9	10	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	ND	ND
	ug/L	09/22/09	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	ug/L	03/22/10	1.8	10	ND	Dry	ND	ND	--	--	--	--	--	--	--	--	--	ND
	ug/L	09/23/10	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	ug/L	03/16/11	1.6	10	ND	ND	ND	ND	--	--	--	--	--	--	--	--	--	ND
	ug/L	09/21/11	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	ug/L	03/21/12	1.6	10	ND	ND	ND	ND	--	--	--	--	--	--	--	--	--	ND
	ug/L	09/20/12	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	ug/L	03/20/13	1.6	10	ND	ND	ND	ND	--	--	--	--	--	--	--	--	--	ND
	ug/L	09/18/13	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	ug/L	03/27/14	1.6	10	ND	ND	ND	ND	--	--	--	--	--	--	--	--	--	ND
	ug/L	09/18/14	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	ug/L	03/18/15	1.6	10	ND	ND	ND	ND	--	--	--	--	--	--	--	--	--	ND

TABLE 7

Summary of Detected Constituents in MSW Monitoring Wells
Henderson County Closed MSW Landfill, Permit No. 45-01

Detected Monitoring Constituent/Parameter	Units	Date	MDL	SWS Reporting Limit	Upgradient Compliance Well	Downgradient Compliance Wells			Assessment Wells				Non-Compliance Wells				TVA Well	Blanks
					MW-5	MW-6	MW-7	MW-8	AMW-1S	AMW-1D	AMW-2S	AMW-2D	Old MW-1	MW-1	Old MW-2	MW-2	MW-9	
2,4-D	ug/L	12/05/94	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
NC 2L = 70 ug/L	ug/L	02/14/95	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EPA MCL = 70 ug/L	ug/L	04/03/95	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	ug/L	10/30/95	--	--	ND	ND	ND	ND	--	--	--	--	--	--	--	--	ND	--
	ug/L	04/08/96	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	ug/L	05/29/96	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	ug/L	06/06/96	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	ug/L	10/24/96	--	--	ND	--	ND	ND	--	--	--	--	--	--	--	--	ND	--
	ug/L	04/15/97	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	ug/L	10/29/97	--	--	ND	ND	ND	ND	--	--	--	--	--	--	--	--	ND	--
	ug/L	05/14/98	--	--	ND	ND	ND	ND	--	--	--	--	--	--	--	--	ND	--
	ug/L	10/11/98	--	--	ND	ND	ND	ND	--	--	--	--	--	--	--	--	ND	--
	ug/L	06/04/99	--	--	ND	ND	ND	ND	--	--	--	--	--	--	--	--	ND	--
	ug/L	10/29/99	--	--	ND	ND	ND	ND	--	--	--	--	--	--	--	--	ND	--
	ug/L	04/20/00	--	--	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	ND	--
	ug/L	11/07/00	--	--	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	ND	--
	ug/L	02/27/01	--	--	--	--	--	--	--	--	--	--	ND	ND	ND	ND	--	--
	ug/L	05/15/01	--	--	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	ND	--
	ug/L	10/16/01	--	--	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	ND	--
	ug/L	04/24/02	--	--	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	ND	--
	ug/L	10/01/02	--	--	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	ND	--
	ug/L	04/09/03	--	--	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	ND	--
	ug/L	10/20/03	--	--	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	ND	--
	ug/L	03/24/04	--	--	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	ND	--
	ug/L	10/27/04	--	--	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	ND	--
	ug/L	05/25/05	--	--	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	ND	--
	ug/L	10/04/05	--	--	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	ND	--
	ug/L	04/25/06	--	--	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	ND	--
	ug/L	10/04/06	--	--	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	ND	--
	ug/L	03/21/07	--	--	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	ND	--
	ug/L	10/02/07	--	--	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	ND	--
	ug/L	04/03/08	--	--	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	ND	--
	ug/L	10/30/08	--	--	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	03/24/09	0.091	2	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	ND	ND
	ug/L	03/22/10	0.091	2	ND	Dry	ND	ND	--	--	--	--	--	--	--	--	--	ND
	ug/L	03/16/11	0.15	2	ND	ND	ND	ND	--	--	--	--	--	--	--	--	--	ND
	ug/L	09/21/11	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	ND
	ug/L	03/21/12	0.16	2	ND	ND	ND	ND	--	--	--	--	--	--	--	--	--	ND
	ug/L	09/20/12	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	ND
	ug/L	03/20/13	0.16	2	ND	ND	0.75 J	ND	--	--	--	--	--	--	--	--	--	ND
	ug/L	09/18/13	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	ug/L	03/27/14	0.27	2	ND	ND	ND	ND	--	--	--	--	--	--	--	--	--	ND
	ug/L	09/18/14	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	ND
	ug/L	03/18/15	0.27	2	ND	ND	ND	ND	--	--	--	--	--	--	--	--	--	ND

Notes:
ug/L = micrograms per liter
mg/L = milligrams per liter
ND = Not detected at the stated reporting limit
J = estimated concentration
B = Blank-qualified result
-- = no data available
MDL = laboratory method detection limit
Blanks = field, trip and method blanks
Bold = concentrations above the NC 2L Groundwater Standards or Solid Waste Section Groundwater Protection Standards (SWS GPS) have been bolded
Shaded = concentrations above the EPA Maximum Contaminant Level (MCL) has been shaded
SWS Reporting Limit = NCPQL or lab-specific reporting limit prior to October 2007 and NCSWSL starting in October 2007
1) Historical data prior to March 2009 provided by Henderson County and CDM.

TABLE 8

Summary of Field Parameters for MSW Monitoring Wells
Henderson County Closed MSW Landfill, Permit No. 45-01

Detected Monitoring Parameter	Units	Date	Upgradient Compliance Well	Downgradient Compliance Wells			Assessment Wells				Non-Compliance Wells				TVA Well
			MW-5	MW-6	MW-7	MW-8	AMW-1S	AMW-1D	AMW-2S	AMW-2D	Old MW-1	MW-1	Old MW-2	MW-2	MW-9
pH (field)	S.U.	02/27/01	--	--	--	--	--	--	--	--	6.85	7.01	6.58	6.64	--
	S.U.	10/04/06	5.81	6.06	5.54	5.90	6.17	6.15	--	--	--	--	--	--	5.35
	S.U.	03/21/07	--	--	--	--	--	--	--	--	--	--	--	--	--
	S.U.	10/02/07	5.60	5.88	5.28	5.23	5.81	5.90	--	--	--	--	--	--	5.37
	S.U.	04/03/08	5.76	6.05	5.30	5.63	6.00	5.95	6.24	7.35	11.25	6.27	5.91	--	4.93
	S.U.	10/29/08	--	--	--	--	--	--	--	--	--	--	--	--	--
	S.U.	03/24/09	6.94	6.43	6.42	6.64	6.21	6.82	7.11	7.56	--	--	--	--	6.31
	S.U.	09/22/09	5.58	5.32	5.60	5.72	5.87	5.91	5.92	6.27	5.72	6.15	5.93	--	--
	S.U.	03/22/10	5.58	Dry	5.44	6.01	6.07	5.62	5.98	6.40	--	--	--	5.87	--
	S.U.	09/23/10	5.48	6.00	5.67	6.04	5.27	5.79	5.85	6.26	--	--	--	--	--
	S.U.	03/16/11	5.53	5.91	5.74	6.15	5.29	5.93	6.08	6.42	--	--	--	--	--
	S.U.	09/21/11	5.65	6.01	5.92	5.88	5.11	5.88	6.38	6.44	--	--	--	--	--
	S.U.	03/21/12	5.92	5.67	5.79	5.61	4.76	5.79	6.01	6.26	--	--	--	--	4.86
	S.U.	09/20/12	5.94	6.81	7.20	5.39	6.20	6.62	7.38	7.69	--	--	--	--	--
	S.U.	03/20/13	5.60	6.11	6.02	6.21	5.84	6.06	5.95	6.31	--	--	--	--	4.85
	S.U.	09/18/13	5.79	6.02	6.19	6.25	6.30	6.16	6.17	6.56	--	--	--	--	--
	S.U.	03/27/14	5.29	6.24	5.46	5.94	6.33	6.31	5.87	7.35	--	--	--	--	4.42
	S.U.	09/18/14	6.49	6.63	6.50	6.14	6.15	6.49	7.40	6.77	--	--	--	--	--
	S.U.	03/18/15	5.71	6.25	5.93	6.17	6.36	6.20	6.21	6.23	--	--	--	--	4.97
Conductivity (field)	uS/cm	02/27/01	--	--	--	--	--	--	--	--	92	85	81	101	--
	uS/cm	10/04/06	90	953	319	530	531	395	--	--	--	--	--	--	56
	uS/cm	03/21/07	--	--	--	--	--	--	--	--	--	--	--	--	--
	uS/cm	10/02/07	115	451	189	319	715	597	--	--	--	--	--	--	85
	uS/cm	04/03/08	98	250	197	552	597	585	243	140	270	209	153	--	59
	uS/cm	10/29/08	--	--	--	--	--	--	--	--	--	--	--	--	--
	uS/cm	03/24/09	110	150	330	730	200	650	610	130	--	--	--	--	120
	uS/cm	09/22/09	101	125	340	661	441	675	277	111	317	254	374	--	--
	uS/cm	03/22/10	148	Dry	339	884	89	560	248	109	--	--	--	289	--
	uS/cm	09/23/10	181	1262	451	999	93	603	219	124	--	--	--	--	--
	uS/cm	03/16/11	166	92	431	529	140	589	259	119	--	--	--	--	--
	uS/cm	09/21/11	146	1228	494	989	94	563	282	114	--	--	--	--	--
	uS/cm	03/21/12	124	992	455	845	188	504	251	93	--	--	--	--	127
	uS/cm	09/20/12	116	257	468	488	209	513	251	111	--	--	--	--	--
	uS/cm	03/20/13	90	147	510	863	211	479	238	82	--	--	--	--	113
	uS/cm	09/18/13	171	965	995	1022	598	646	314	136	--	--	--	--	--
	uS/cm	03/27/14	171	391	770	1047	254	694	290	176	--	--	--	--	195
	uS/cm	09/18/14	180	1797	649	605	200	749	347	114	--	--	--	--	--
	uS/cm	03/18/15	191	157	716	805	548	700	310	143	--	--	--	--	160
Temperature (field)	Celsius	02/27/01	--	--	--	--	--	--	--	--	15.5	14.8	13.7	13.2	--
	Celsius	10/04/06	13.8	16.6	18.0	15.7	15.4	14.7	--	--	--	--	--	--	13.7
	Celsius	03/21/07	--	--	--	--	--	--	--	--	--	--	--	--	--
	Celsius	10/02/07	14.1	17.4	17.9	16.0	15.1	14.8	--	--	--	--	--	--	13.6
	Celsius	04/03/08	13.2	12.1	16.5	15.5	13.0	12.4	13.01	15.30	5.86	14.01	14.28	--	13.1
	Celsius	10/29/08	--	--	--	--	--	--	--	--	--	--	--	--	--
	Celsius	03/24/09	12.6	14.9	18.5	17.3	17.6	16.8	13.6	11.9	--	--	--	--	13.7
	Celsius	09/22/09	16.7	19.95	19.91	22.78	17.31	16.68	17.22	17.47	18.04	15.99	21.06	--	--
	Celsius	03/22/10	13.17	Dry	14.97	11.76	10.08	10.97	9.33	7.41	--	--	--	15.63	--
	Celsius	09/23/10	14.92	19.69	18.65	18.77	16.25	15.78	17.11	18.35	--	--	--	--	--
	Celsius	03/16/11	12.61	9.68	15.64	15.08	11.96	11.95	10.02	9.24	--	--	--	--	--
	Celsius	09/21/11	14.32	17.37	17.38	16.06	16.29	15.85	17.06	17.34	--	--	--	--	--
	Celsius	03/21/12	15.20	14.46	16.53	17.08	15.47	15.45	13.25	12.95	--	--	--	--	14.46
	Celsius	09/20/12	14.11	17.35	17.30	15.92	16.86	17.05	16.76	18.16	--	--	--	--	--
	Celsius	03/20/13	12.82	13.84	16.78	16.17	12.68	13.26	10.12	9.10	--	--	--	--	11.54
	Celsius	09/18/13	14.3	16.7	16.6	16.2	15.9	14.6	14.6	14.0	--	--	--	--	--
	Celsius	03/27/14	12.7	13.4	15.4	15.3	13.4	13.4	11.0	10.9	--	--	--	--	11.3
	Celsius	09/18/14	14.5	18.6	17.7	16.8	17.2	17.4	18.6	19.2	--	--	--	--	--
	Celsius	03/18/15	14.2	12.7	16.2	16.5	14.8	14.7	10.9	13.8	--	--	--	--	13.5
Turbidity (field)	NTU	03/24/09	59.0	60.5	29.1	83.9	18.8	4.37	41.1	17.2	--	--	--	--	9.04
	NTU	09/22/09	39.1	11.6	23.7	97.6	20.2	6.68	91.0	46.0	9.02	16.2	75.8	--	--
	NTU	03/22/10	73.8	Dry	17.0	33.8	19.0	9.68	24.8	18.4	--	--	--	43.2	--
	NTU	09/23/10	48.4	11.0	24.3	51.1	12.8	4.35	34.2	6.63	--	--	--	--	--
	NTU	03/16/11	51.7	38.9	5.93	30.8	12.4	0.77	14.2	5.17	--	--	--	--	--
	NTU	09/21/11	40.1	140	64.9	280	10.3	2.18	64.9	3.41	--	--	--	--	--
	NTU	03/21/12	88.2	54.9	8.27	15.5	6.71	4.33	6.57	4.51	--	--	--	--	24.9
	NTU	09/20/12	257	30.2	82.8	90.0	85.1	16.7	163	6.46	--	--	--	--	--
	NTU	03/20/13	107	93.6	71.4	89.5	5.15	1.74	5.25	1.08	--	--	--	--	4.20
	NTU	09/18/13	66.1	>1000	27.2	60.7	72.4	19.3	192	25.3	--	--	--	--	--
	NTU	03/27/14	2.18	47.4	1.67	99.4	1.66	1.48	36.5	2.02	--	--	--	--	2.83
	NTU	09/18/14	0.75	65.4	0.58	1.80	1.41	0.55	4.41	0.63	--	--	--	--	--
	NTU	03/18/15	71.3	28.5	61.2	23.1	31.8	2.43	43.2	3.15	--	--	--	--	12.1

Notes:

NTU = Nephelometric Turbidity Units
uS/cm = microsiemens per centimeter
S.U. = Standard Units
-- = no data available
1) Historical data prior to March 2009 provided by Henderson County and CDM.

TABLE 9

Summary of Corrective Measures Screening Results
Henderson County Closed MSW Landfill, Permit No. 45-01

Remedial Technology	Feasibility and Effectiveness											Implementability					Cost					Comment
	Achieve Target Contaminant Levels	Protective of Human Health & Environment (HHE)	Long Term Effectiveness	Addresses (Toxicity, Mobility, or Volume	Safety Impacts	Cross-Media Impacts	Residuals Produced – (Solid, Liquid, Vapor)	Rating for VOCs	Exposure to Residual Contamination	Ease to Implement	Environmental Conditions	System Reliability and Maintainability	Regulatory/Permitting Acceptability	Community Acceptability	Capital Costs	O&M Costs	Time to Implement	Time to Complete Cleanup	SCORE	
Ranking system:	Yes=3; Unkwn=2; No=1	Yes=3; Unkwn=2; No=1	Yes=3; Unkwn=2; No=1	1 Pt. Each	Best=3; Avg.=2; Worse=1	Best=3; Avg.=2; Worse=1	-1 Pt. Each	Best=3; Avg.=2; Worse=1	Best=3; Avg.=2; Worse=1	Best=3; Avg.=2; Worse=1	Best=3; Unkwn/Avg.=2; Worse=1	Best=3; Unkwn/Avg.=2; Worse=1	Best=3; Unkwn/Avg.=2; Worse=1	Best=3; Unkwn/Avg.=2; Worse=1	Best=3; Unkwn/Avg.=2; Worse=1	Best=3; Unkwn/Avg.=2; Worse=1	Best=3; Unkwn/Avg.=2; Worse=1	Best=3; Unkwn/Avg.=2; Worse=1		
Non-Intrusive Controls																						
Site Access Restrictions and Presumptive Remedies	2	3	2	0	---	3	3	0	---	1	3	3	3	3	2	1	3	3	3	1	39	Not to be considered as a primary alternative. Can be used in conjunction with a primary alternative.
Monitored Natural Attenuation	3	2	3	3	V	3	3	0	---	3	3	3	3	3	2	2	3	3	3	1	46	Analytical results demonstrate possible conditions for natural attenuation.
GroundWater Containment																						
Vertical Barrier Walls	1	1	3	1	M	3	3	-1	S	1	2	1	1	3	2	3	1	3	2	1	31	Site conditions would require a laterally extensive barrier system, resulting in high costs.
Groundwater Extraction System	3	3	3	3	T,M,V	2	1	-1	L	1	1	1	3	3	3	3	1	1	3	1	35	Highly visible remedial alternative. Performance is moderate to low since process will be diffusion controlled.
Hydraulic Gradient Controls (Injection)	1	2	2	1	M	3	3	0	---	1	3	1	3	1	1	2	1	1	2	1	29	While hydraulic gradients may be easily created at the site, it may result in undesirable redirection of contaminated groundwater or leachate, and/or discharge to surface waters.
In-Situ -Groundwater Biological/Chemical Treatment																						
Enhanced Bioremediation (EOS)	3	3	3	2	T,V	2	3	0	---	3	3	3	3	2	3	2	3	2	3	2	45	May be highly effective depending on site conditions. If the landfill continues to leak, costs will rise as additional electron-donor substance injection is required.
Zero Valent Nano-Iron Remediation	3	3	2	2	T,V	3	3	0	---	3	3	3	3	2	2	2	2	3	3	2	44	May be highly effective depending on site conditions. Does not target the source, additional nZVI injections would be necessary if landfill contineus to leak.
Enhanced Remediation (O_2 Enhancement with H_2O_2, $KMnO_4$, O_3)	3	3	2	2	T,V	1	2	0	---	3	3	3	3	2	2	2	1	3	3	2	40	May be highly effective depending on site conditions. If the landfill continues to leak, costs will rise as additional oxidant injection is required.
Phytoremediation	1	1	1	0		3	3	0	---	2	2	1	1	1	2	2	3	3	1	1	28	Depth to water table aquifer precludes economic use.
In-Situ -Groundwater Abiotic Treatment																						
Passive Treatment Walls	3	3	2	2	T,V	3	3	-1	S	3	2	1	1	2	3	2	1	3	1	1	35	Full scale success not documented. Biofouling, loss of reactive capacity, may require replacement.
Air Sparging	3	3	3	2	T,V	2	1	-1	L	3	1	2	2	3	3	2	2	2	2	3	38	Limited by contaminant plume area; treatment will be limited to area of sparging.
Fenton's Reagent	3	3	3	1	T	2	2	-1	L	2	2	2	2	1	2	2	1	1	2	2	32	Limited effectiveness on halogenated volatiles.
Dual Phase Extraction	3	3	3	2	T,M	2	1	-2	L,V	3	1	2	2	3	3	2	2	1	2	2	35	Dual phase extraction requires both groundwater and vapor treatment. Vapor is not a substantial concern at this facility. Significant O & M costs.
Vacuum Vapor Extraction	3	3	3	1	T	2	1	-2	L,V	3	1	2	2	3	3	2	2	2	2	1	34	No full scale success has been achieved; fouling of system may occur by oxidized constituents in groundwater.
Ex Situ Groundwater Treatment																						
Filtration / Sedimentation	3	3	3	3	T,M,V	2	1	-1	S	1	1	2	2	2	2	2	2	1	1	2	32	Used as pre-treatment or post-treatment process to remove suspended solids or precipitated metals.
Ion Exchange Filtration	3	3	3	3	T,M,V	2	1	-1	S	1	1	1	2	2	2	2	2	1	1	2	31	
Bioreactors	3	3	3	3	T,M,V	2	3	-1	S	3	1	1	2	2	2	2	2	2	2	2	37	Treatability study recommended; residuals from sludge processes require treatment or disposal; air pollution controls may need to be considered.
Constructed Wetlands	3	3	2	2	T,M	3	3	-1	L	2	1	1	1	3	1	2	1	3	2	1	33	Depth to water table aquifer precludes as viable use.
Air Stripping w/NPDES Disposal	3	3	3	2	M,V	2	1	-1	L	3	1	2	2	3	3	2	3	2	3	3	40	Biofouling of the equipment may require pre-treatment of groundwater or periodic column cleaning; off-gases may require treatment.
Carbon Adsorption (liquid phase)	3	3	3	3	T,M,V	2	2	-1	S	2	2	2	2	3	3	2	1	1	3	2	38	Water soluble compounds and small molecules are not adsorbed well.
Publicly Owned Treatment Work	3	3	3	3	T,M,V	3	2	-2	S,L	2	2	2	2	3	3	2	2	1	2	3	39	Pretreatment would likely be required prior to acceptance of wastewater. Volume-based fees could be exorbitant.
UV Oxidation	3	3	3	3	T,M,V	2	3	-1	L	3	2	1	2	2	2	2	1	1	2	2	36	Handling and storage of oxidizers requires special safety precautions; pre-treatment may be required to minimize cleaning and maintenance of UV reactor .

Notes:

Achieve Target Contaminant Levels	the remedial alternative will effectively reduce the concentration of contaminants identified in the Nature and Extent Study to levels equal to or less than the levels established for each constituent that are protective of human health and the environment.
Protective of Human Health and the Environment	implementation and/or operation of remedial alternative will not increase risk to human health or environment.
Long-Term Effectiveness	the effects of the remedial alternative are long-term as opposed to temporary.
Address Toxicity, Mobility, or Volume	the remedial alternative reduces the toxicity of the contaminant, the mobility of the contaminant, or the volume of contaminated media.
Safety Impacts	the alternative has short term impacts on the physical safety of humans.
Cross Media Impacts	the remedial alternative affects contaminant levels in media other than the media being treated.
Residuals Produced (Solid, Liquid, Vapor)	by-products produced by implementing or operating the remedial alternative.
Exposure to Residual Contamination	whether or not humans could come in contact with any residuals produced by the remedial alternative.
Ease to Implement	the degree to which implementing the remedial alternative can be accomplished.
Environmental Conditions	the effects of environmental conditions (e.g., structure of subsurface soils, presence of naturally occurring inorganics/organics in subsurface soil, microbial population) on the effectiveness of the remedial alternative.
System Reliability/Maintainability	the degree of system reliability and ease of maintenance when using the technology.
Regulatory/Permitting Acceptability	the acceptance by the regulatory agency of the remedial alternative as a viable means by which to mitigate any or this site, and the the ease in which a permit can be obtained.
Community Acceptability	the degree to which use of the technology is acceptable to the public.
Capital Cost	cost for design, construction, and initial implementation of the remedial system
O&M Cost	cost for operation and maintenance of the remedial system, following implementation and throughout the entire corrective action process
Time to Implement	the relative amount of time required to implement the alternative, including the time spent obtaining all required permits.
Time to Cleanup	the relative amount of time before remedial endpoints will be met.

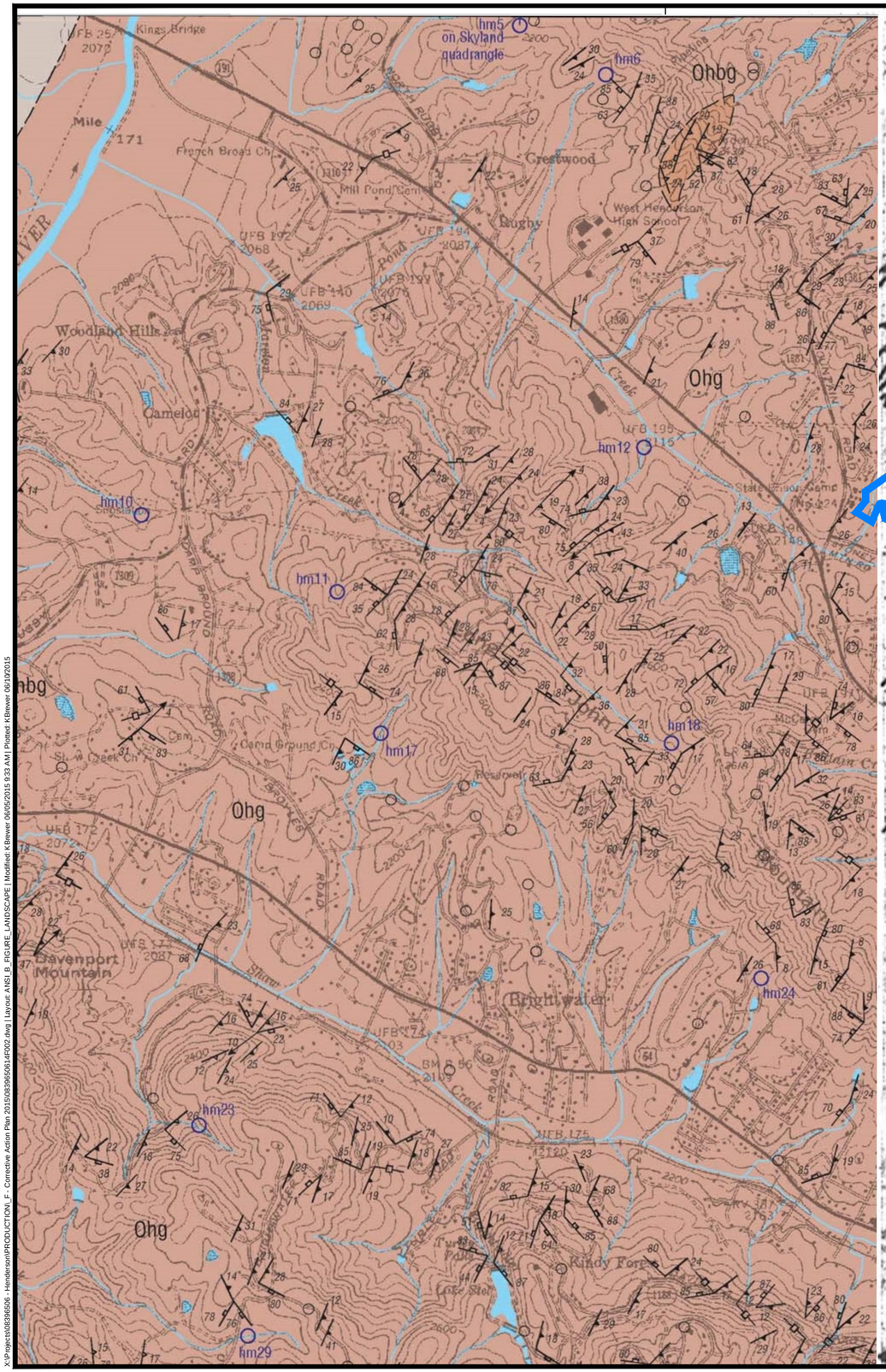
TABLE 10

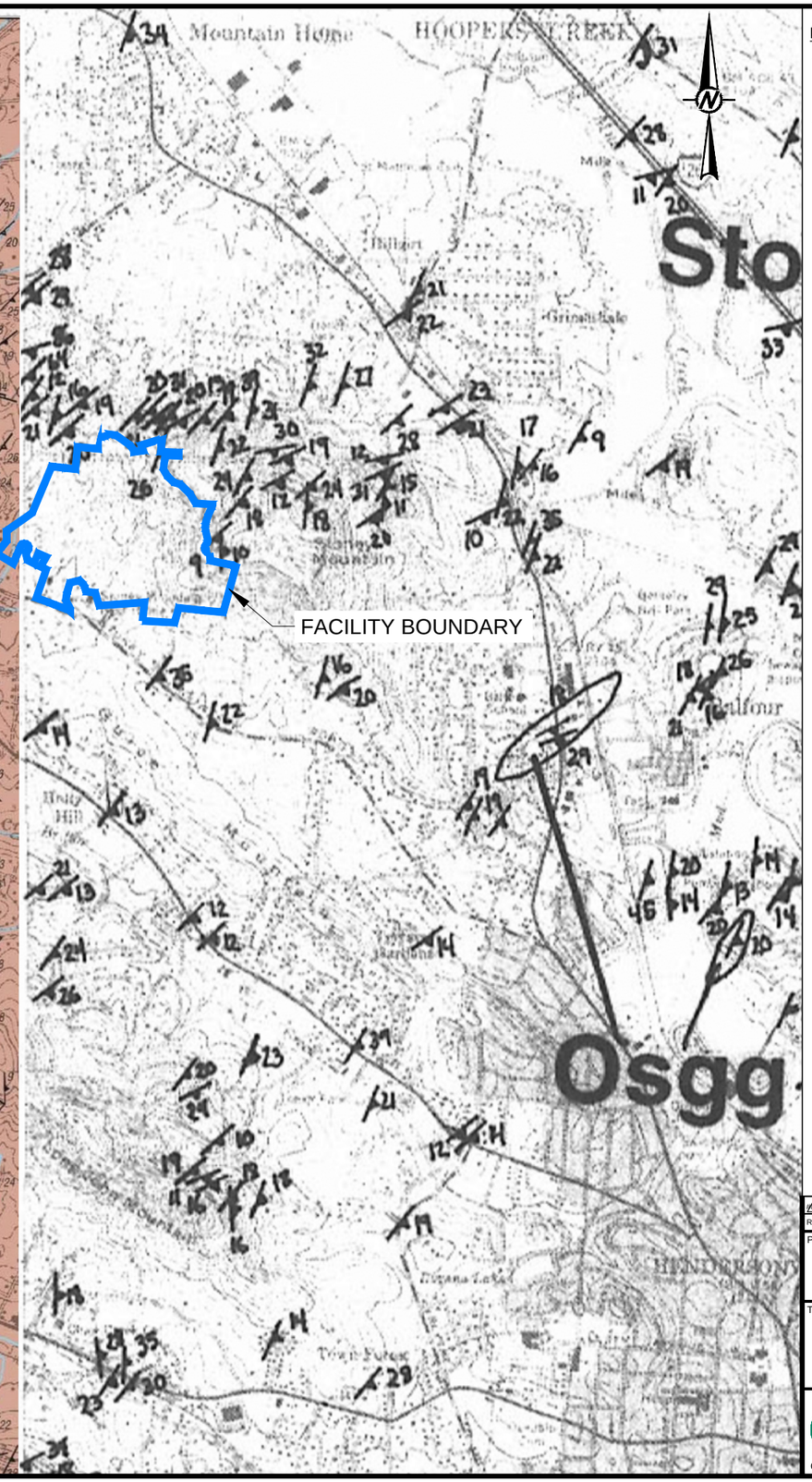
Summary of Site Conditions Relevant to Corrective Action
Henderson County Closed MSW Landfill, Permit No. 45-01

COC	COC Chemical Class	Conditions for Enhanced Biodegradation	2L Standard (ug/L)	Near-Source Impacted Monitoring Well**	Impacted Aquifer	Maximum COC Concentration (ug/L; Last 3 Years*)	Factor Above 2L Standard	Most Recent Concentration (ug/L)	Off-site Impacts <2L Standard Interpreted in NES?
Western Plume Originating Near MW-6									
Benzene	Aromatic HC	Aerobic	1.0	MW-6	Saprolite	4.6	4.6	ND	No
1,4-Dichlorobenzene	Chlorinated Aromatic HC		6.0			14	2.3	ND	No
Vinyl Chloride	Chlorinated Aliphatic HC		0.03	AMW-1D	PWR / Fractured Bedrock	0.64	21.3	0.64	Yes
Central Plume Originating Near MW-7									
Vinyl Chloride	Chlorinated Aliphatic HC	Aerobic, but either condition is acceptable	0.03	MW-7	Saprolite	1.5	50	1.1	Yes
1,4-Dichlorobenzene	Chlorinated Aromatic HC	Aerobic	6.0			18	3.0	18	No
Benzene	Aromatic HC		1.0			1.7	1.7	1.6	No
Eastern Plume Originating Near MW-8									
Tetrachloroethene	Chlorinated Aliphatic HC	Anaerobic	0.7	MW-8	Saprolite	11	16	ND	Yes
Trichloroethene			3			3.9	1.3	ND	Yes
Vinyl Chloride			0.03			0.77	25.7	ND	No
Methylene Chloride			5			11	2.2	ND	No
1,1-Dichloroethane			6			6.9	1.2	ND	Yes
Benzene	Aromatic HC	Aerobic	1.0			3	3	ND	Yes

Notes:
*If not sampled in the last 3 years, the most recent sample is evaluated
COC = Constituent of Concern
ug/L = micrograms per liter
CVOC = chlorinated volatile organic compound
HC = hydrocarbon
ND = not detected
CA = Corrective Action
NA = natural attenuation
**Or downgradient well, if the COC is not detected near the source
PWR = Partially Weathered Rock

FIGURES





LEGEND

OSgg	GRANTIC GNEISS (438 Ma;ODOM AND RUSSELL, 1975*)
Ohgmy	MYLONITIC HENDERSON GNEISS
Ohbg	BIOTITE GRANODIORITIC GNEISS
Ohg	HENDERSON GNEISS

FACILITY BOUNDARY

STRIKE AND DIP OF FOLIATION

STRIKE AND DIP OF VERTICAL JOINT

STRIKE AND DIP OF JOINT

0 1000 2000 3000
SCALE FEET

REV	DATE	REVISION DESCRIPTION	DES	CADD	CHK	RVW
	####	####	####	####	####	####

PROJECT
HENDERSON COUNTY CLOSED MSW AND C&D LANDFILL
PERMIT # 45-01

TITLE
GEOLOGIC MAP

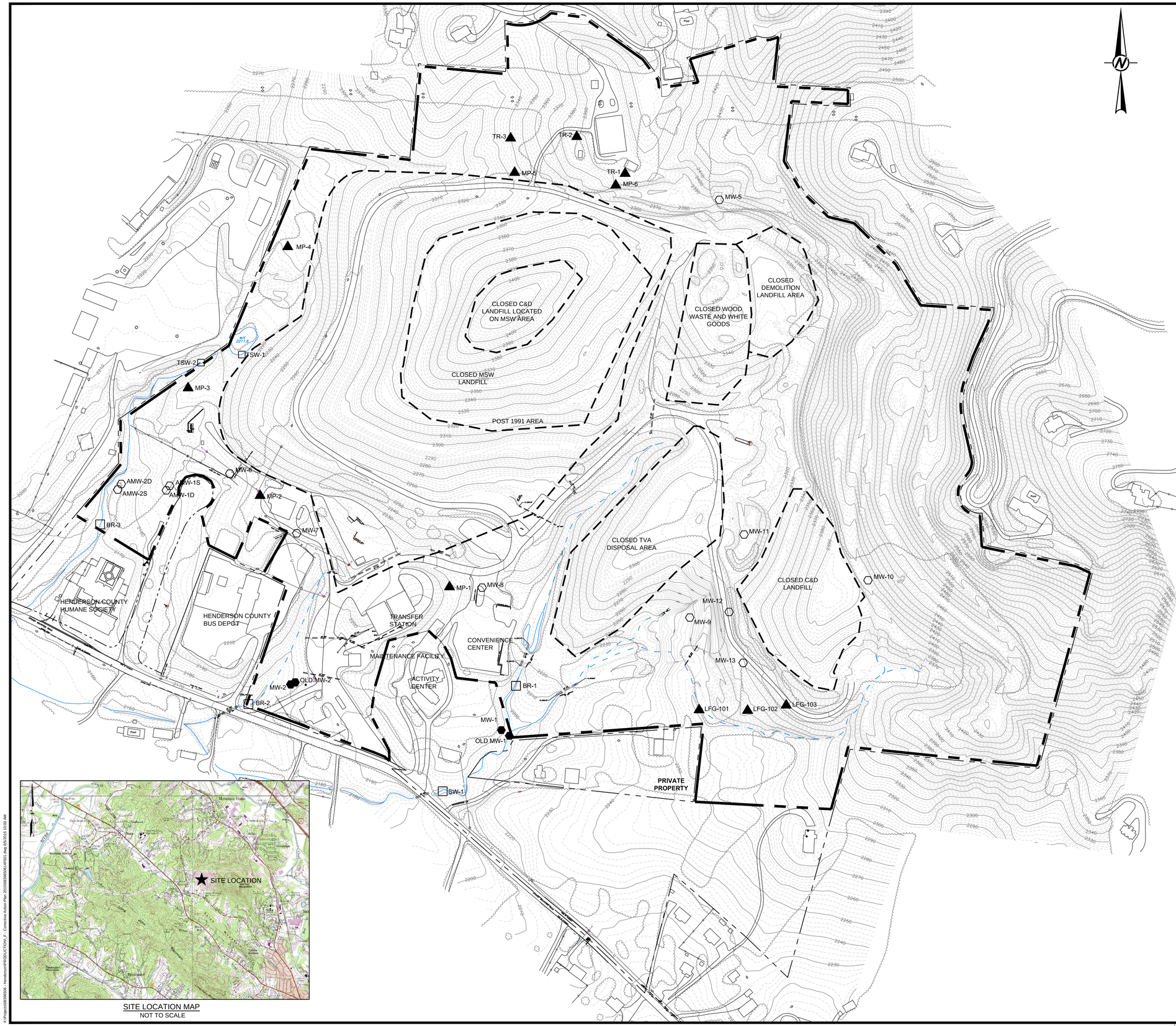
PG C-399

Golder Associates
GOLDER ASSOCIATES NC, INC.

PROJECT No.		083-9650614	FILE No.	0839650614F002
DESIGN	LKB	07/2014	SCALE	AS SHOWN
CADD	LKB	07/2014	TITLE	
CHECK	JF	07/2014	**FIGURE 1**	
REVIEW	JF	07/2014		

X:\Projects\083965 06 - Henderson\PRODUCTION_F - Corrective Action Plan 2015\0839650614F002.dwg | Layout: ANSI_B_FIGURE_LANDSCAPE | Modified: KBrewer 06/05/2015 9:33 AM | Plotted: KBrewer 06/10/2015

DRAWINGS



SITE LOCATION MAP
NOT TO SCALE

LEGEND

	EXISTING 10 FT. CONTOUR
	EXISTING 2 FT. CONTOUR
	PROPERTY LINE
	LIMITS OF WASTE
	STREAM
	BUFFER
	TREELINE
	EXISTING ROAD
	FENCE
MW-8	COMPLIANCE MONITORING WELL AND IDENTIFICATION
MW-1	NON COMPLIANCE MONITORING WELL AND IDENTIFICATION
MP-6	METHANE MONITORING PROBE AND IDENTIFICATION
BR-1	SURFACE WATER MONITORING POINT AND IDENTIFICATION

NOTES

1. TOPOGRAPHIC CONTOUR INTERVAL = 2 FEET
2. COORDINATE SYSTEM IS N.C. STATE PLANE GRID.
3. TOPOGRAPHIC DIVIDING LINE DIVIDES THE BASE MAP TOPOGRAPHIC CONTOURS FROM LANDSAT TOPOGRAPHIC CONTOURS. LANDSAT TOPOGRAPHIC CONTOURS HAVE A 5-CONTOUR INTERVAL.

REFERENCES

1. BASE MAP PROVIDED BY CAMP DRESSER & McKEE FROM PREVIOUS WATER QUALITY MONITORING REPORTS.

0 150 300
1" = 150' FEET

REV	DATE	DES	REVISION DESCRIPTION	CADD	CHK	RVW
2	09/24/13	BF	SEPTEMBER 2013 GW CONTOURS	LKB		
1	04/12/13	DAC	REVISED GW CONTOURS	LKB	DYR	RPK

PROJECT
HENDERSON COUNTY CLOSED MSW AND C&D LANDFILL
PERMIT # 45-01

TITLE
SITE LOCATION MAP AND SITE MAP

PG C-399

Golder Associates
GOLDER ASSOCIATES NC, INC.

PROJECT No.	083-9650614		FILE No. 0839650614F001	
DESIGN	JAD	04/28/09	SCALE AS SHOWN	REV. –
CADD	LKB	04/28/09		
CHECK	DYR	06/30/09	DRAWING 1	
REVIEW	RPK	06/30/09		

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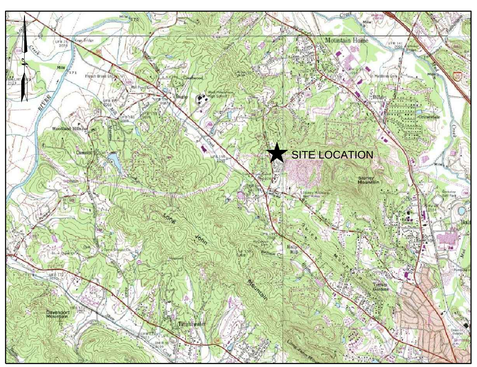

SITE LOCATION MAP
NOT TO SCALE

LEGEND

- EXISTING 10 FT. CONTOUR
- EXISTING 2 FT. CONTOUR
- PROPERTY LINE
- LIMITS OF WASTE
- STREAM
- BUFFER
- TREELINE
- EXISTING ROAD
- FENCE
- GROUNDWATER SURFACE CONTOURS
- APPROXIMATE GROUNDWATER FLOW DIRECTION
- MW-8 2210.90 — COMPLIANCE MONITORING WELL AND IDENTIFICATION
- MW-1 — NON COMPLIANCE MONITORING WELL AND IDENTIFICATION
- MP-6 — METHANE MONITORING PROBE AND IDENTIFICATION
- BR-1 — SURFACE WATER MONITORING POINT AND IDENTIFICATION

NOTES

1. TOPOGRAPHIC CONTOUR INTERVAL = 2 FEET
2. GROUNDWATER SURFACE CONTOUR INTERVAL = 20 FEET
3. GROUNDWATER ELEVATIONS MEASURED ON MARCH 17, 2015.
4. GROUNDWATER CONTOURS BASED ON LINEAR INTERPOLATION BETWEEN AND EXTRAPOLATION FROM KNOWN DATA, TOPOGRAPHIC CONTOURS, AND KNOWN FIELD CONDITIONS. THEREFORE GROUNDWATER CONTOURS MAY NOT REFLECT ACTUAL CONDITIONS.
5. GROUNDWATER CONTOUR LINES SHOW THE WATER TABLE SHAPE AND ELEVATION. THESE CONTOURS ARE INFERRED LINES FOLLOWING THE GROUNDWATER SURFACE AT A CONSTANT ELEVATION ABOVE SEA LEVEL
6. COORDINATE SYSTEM IS N.C. STATE PLANE GRID.
7. TOPOGRAPHIC DIVIDING LINE DIVIDES THE BASE MAP TOPOGRAPHIC CONTOURS FROM LANDSAT TOPOGRAPHIC CONTOURS. LANDSAT TOPOGRAPHIC CONTOURS HAVE A 5-CONTOUR INTERVAL.

REFERENCES

1. BASE MAP PROVIDED BY CAMP DRESSER & McKEE FROM PREVIOUS WATER QUALITY MONITORING REPORTS.

0 200 400
1" = 200' FEET

REV	DATE	DES	REVISION DESCRIPTION	CADD	CHK	RVW
–	–	–	– –	–	–	–

PROJECT
HENDERSON COUNTY CLOSED MSW AND C&D LANDFILL
PERMIT # 45-01

TITLE
POTENTIOMETRIC SURFACE CONTOUR MAP - MARCH 17, 2015

PG C-399

Golder Associates
GOLDER ASSOCIATES NC, INC.

PROJECT No.	083-9650614		FILE No.	083965061.4F003	
DESIGN	JAD	04/28/09	SCALE	AS SHOWN	REV. –
CADD	LKB	04/28/09			
CHECK	DYR	06/30/09	DRAWING 2		
REVIEW	RPK	06/30/09			

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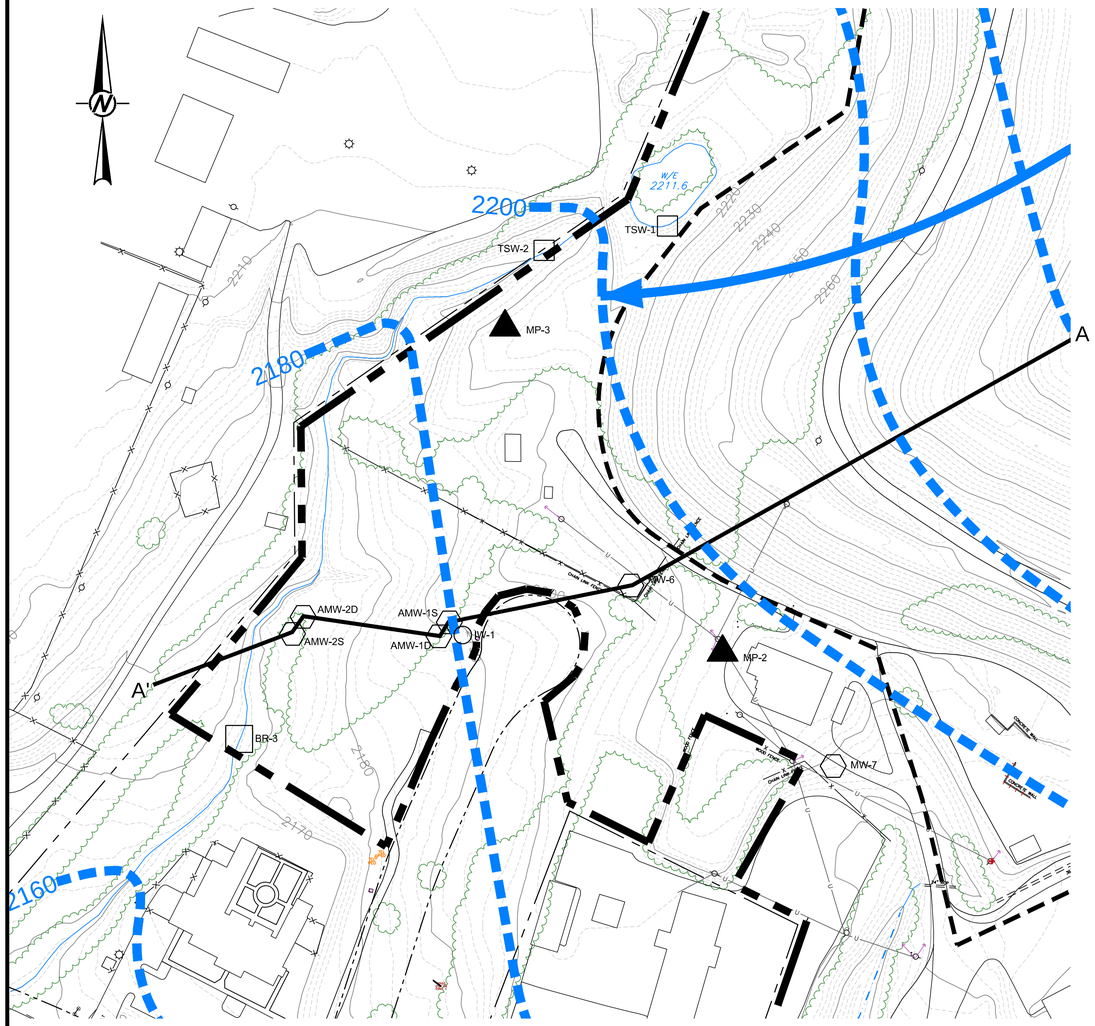
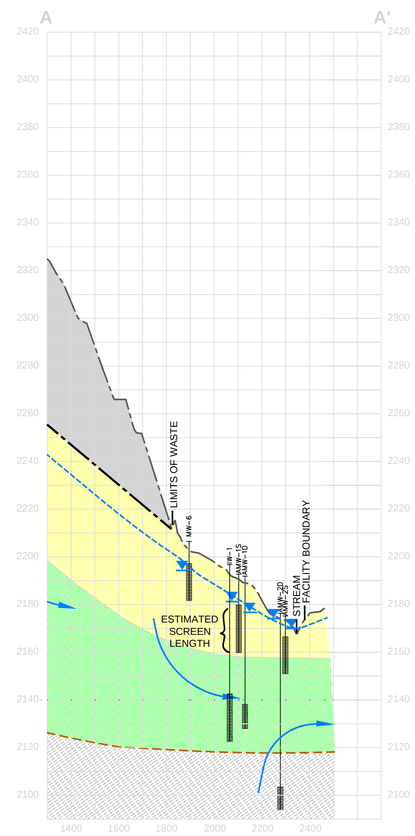




LEGEND

	EXISTING GRADE
	BASE GRADE
	POTENTIOMETRIC SURFACE CONTOUR
	BEDROCK SURFACE
MW-7	COMPLIANCE MONITORING WELL
MP-2	METHANE MONITORING PROBE AND IDENTIFICATION
BR-1	SURFACE WATER MONITORING POINT AND IDENTIFICATION
	INTERPRETED DIRECTION OF GROUNDWATER FLOW
	MONITORING WELL WITH SCREENED INTERVAL
	MEASURED GROUNDWATER ELEVATION
	SAPROLITE
	PARTIALLY WEATHERED ROCK
	BEDROCK
	WASTE

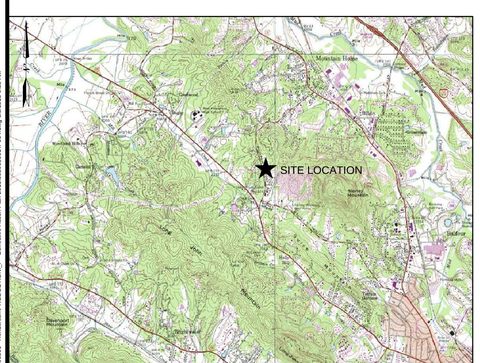
NOTES

1. DIFFERENCES BETWEEN SURFACE TOPOGRAPHY AND WELL ELEVATIONS EXIST DUE TO SOFTWARE INTERPOLATION OF SURFACE ELEVATIONS ALONG LINES OF SECTION.
2. GROUNDWATER ELEVATIONS MEASURED ON SEPTEMBER 21-24, 2009, AND THE GROUNDWATER CONTOURS WERE TAKEN FROM DRAWING 1.
3. ISOPLETHS ON MAP REPRESENT TOTAL VOCs AND WERE TAKEN FROM DRAWING 3.

REFERENCES

1. BASE MAP PROVIDED BY CAMP DRESSER & McKEE FROM PREVIOUS WATER QUALITY MONITORING REPORTS.

0 300 600
1" = 300' FEET



SITE LOCATION MAP
NOT TO SCALE

REV	DATE	DES	REVISION DESCRIPTION	CADD	CHK	RVW
–	–	–	--	–	–	–

PROJECT
HENDERSON COUNTY CLOSED MSW AND C&D LANDFILL
PERMIT # 45-01

TITLE
PILOT SCALE CORRECTIVE ACTION LOCATION MAP

PG C-399

Golder Associates
GOLDER ASSOCIATES NC, INC.

PROJECT No.	083-9650614	
DESIGN	JAD	04/28/09
CADD	LKB	04/28/09
CHECK	DYR	06/30/09
REVIEW	RPK	06/30/09

FILE No. 083965061.dr004
SCALE AS SHOWN REV. –

DRAWING 3

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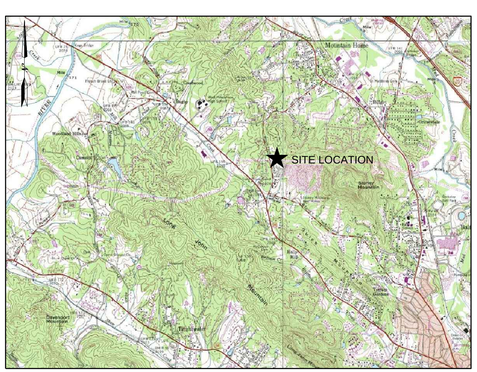

SITE LOCATION MAP
NOT TO SCALE

0 200 400
1" = 200' FEET

LEGEND

- EXISTING 10 FT. CONTOUR
- EXISTING 2 FT. CONTOUR
- PROPERTY LINE
- LIMITS OF WASTE
- STREAM
- BUFFER
- TREELINE
- EXISTING ROAD
- FENCE
- GROUNDWATER SURFACE CONTOURS
- APPROXIMATE GROUNDWATER FLOW DIRECTION
- MW-8 2210.90 — COMPLIANCE MONITORING WELL AND IDENTIFICATION
- MW-2 2172.62 — CORRECTIVE ACTION MONITORING POINTS (IN COLOR)
- MW-1 — NON COMPLIANCE MONITORING WELL AND IDENTIFICATION
- MP-6 — METHANE MONITORING PROBE AND IDENTIFICATION
- BR-1 — SURFACE WATER MONITORING POINT AND IDENTIFICATION
- IW-1 — INJECTION WELL

NOTES

1. TOPOGRAPHIC CONTOUR INTERVAL = 2 FEET
2. GROUNDWATER SURFACE CONTOUR INTERVAL = 20 FEET
3. GROUNDWATER ELEVATIONS MEASURED ON MARCH 17, 2015.
4. GROUNDWATER CONTOURS BASED ON LINEAR INTERPOLATION BETWEEN AND EXTRAPOLATION FROM KNOWN DATA, TOPOGRAPHIC CONTOURS, AND KNOWN FIELD CONDITIONS. THEREFORE GROUNDWATER CONTOURS MAY NOT REFLECT ACTUAL CONDITIONS.
5. GROUNDWATER CONTOUR LINES SHOW THE WATER TABLE SHAPE AND ELEVATION. THESE CONTOURS ARE INFERRED LINES FOLLOWING THE GROUNDWATER SURFACE AT A CONSTANT ELEVATION ABOVE SEA LEVEL
6. COORDINATE SYSTEM IS N.C. STATE PLANE GRID.
7. TOPOGRAPHIC DIVIDING LINE DIVIDES THE BASE MAP TOPOGRAPHIC CONTOURS FROM LANDSAT TOPOGRAPHIC CONTOURS. LANDSAT TOPOGRAPHIC CONTOURS HAVE A 5-CONTOUR INTERVAL.

REFERENCES

1. BASE MAP PROVIDED BY CAMP DRESSER & McKEE FROM PREVIOUS WATER QUALITY MONITORING REPORTS.

REV	DATE	DES	REVISION DESCRIPTION	CADD	CHK	RVW
–	–	–	– –	–	–	–

PROJECT
HENDERSON COUNTY CLOSED MSW AND C&D LANDFILL
PERMIT # 45-01

TITLE
CORRECTIVE ACTION PERFORMANCE MONITORING POINTS

PG C–399

Golder Associates
GOLDER ASSOCIATES NC, INC.

PROJECT No.	083–9650614	
DESIGN	JAD	04/28/09
CADD	LKB	04/28/09
CHECK	DYR	06/30/09
REVIEW	RPK	06/30/09

FILE No. 083965061.4F005
SCALE AS SHOWN REV. –

DRAWING 4

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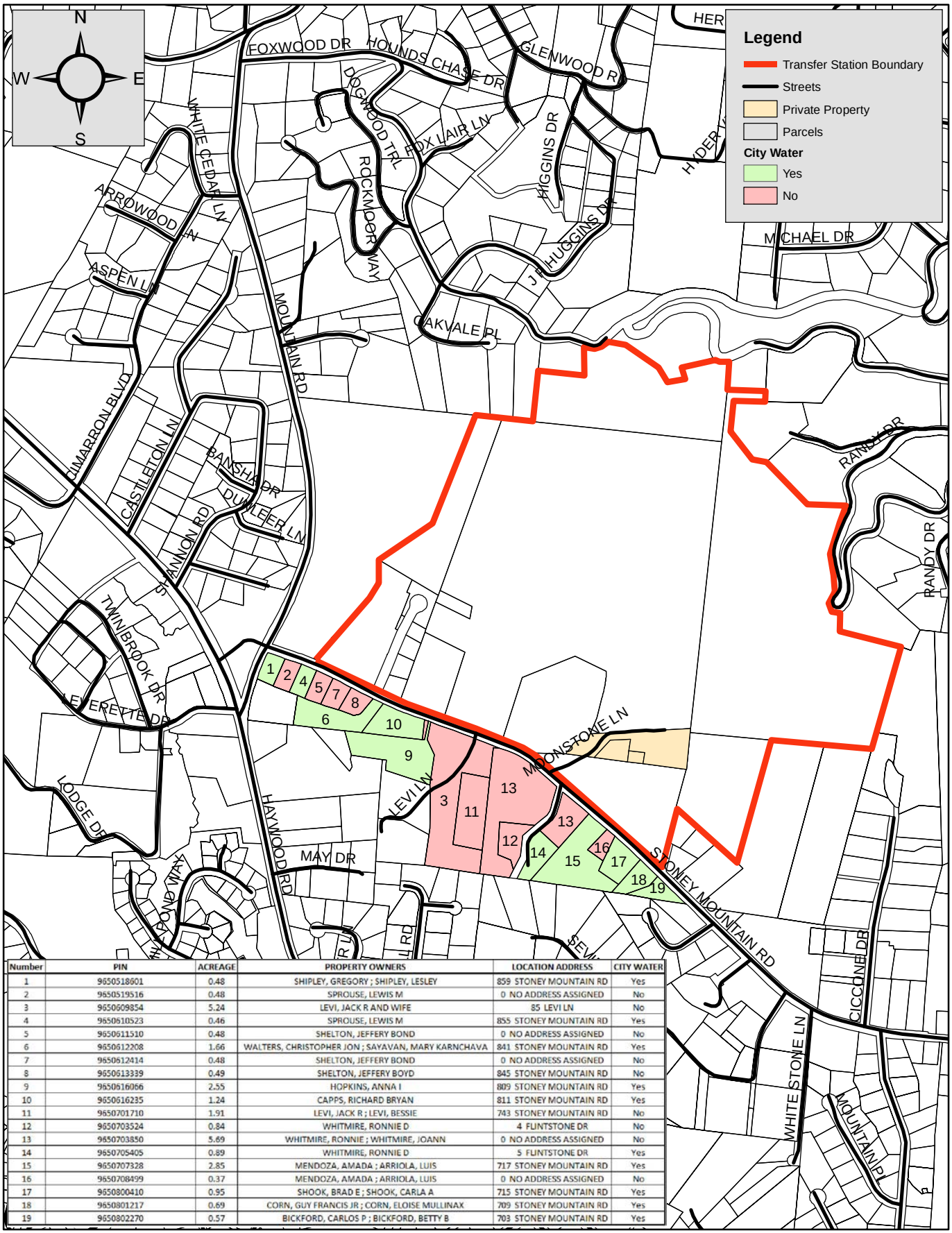
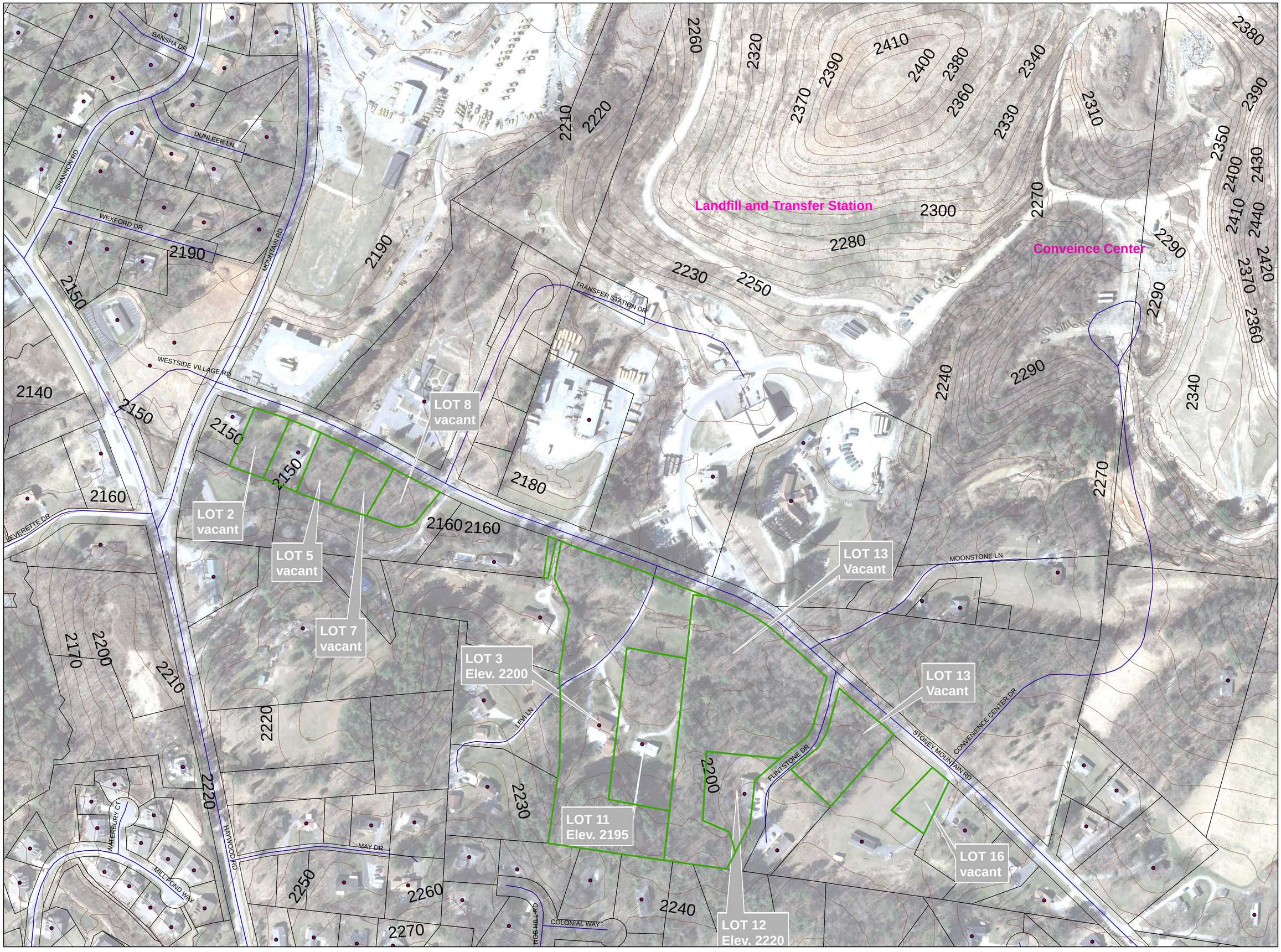
APPENDIX A

PRIVATE WATER SUPPLY WELL MAP



Number	PIN	ACREAGE	PROPERTY OWNERS	LOCATION ADDRESS	CITY WATER
1	9650518601	0.48	SHIPLEY, GREGORY ; SHIPLEY, LESLEY	859 STONEY MOUNTAIN RD	Yes
2	9650519516	0.48	SPROUSE, LEWIS M	0 NO ADDRESS ASSIGNED	No
3	9650609854	5.24	LEVI, JACK R AND WIFE	85 LEVI LN	No
4	9650610523	0.46	SPROUSE, LEWIS M	855 STONEY MOUNTAIN RD	Yes
5	9650611510	0.48	SHELTON, JEFFERY BOND	0 NO ADDRESS ASSIGNED	No
6	9650612208	1.66	WALTERS, CHRISTOPHER JON ; SAYAVAN, MARY KARNCHAVA	841 STONEY MOUNTAIN RD	Yes
7	9650612414	0.48	SHELTON, JEFFERY BOND	0 NO ADDRESS ASSIGNED	No
8	9650613339	0.49	SHELTON, JEFFERY BOYD	845 STONEY MOUNTAIN RD	No
9	9650616066	2.55	HOPKINS, ANNA I	809 STONEY MOUNTAIN RD	Yes
10	9650616235	1.24	CAPPS, RICHARD BRYAN	811 STONEY MOUNTAIN RD	Yes
11	9650701710	1.91	LEVI, JACK R ; LEVI, BESSIE	743 STONEY MOUNTAIN RD	No
12	9650703524	0.84	WHITMIRE, RONNIE D	4 FLINTSTONE DR	No
13	9650703850	5.69	WHITMIRE, RONNIE ; WHITMIRE, JOANN	0 NO ADDRESS ASSIGNED	No
14	9650705405	0.89	WHITMIRE, RONNIE D	5 FLINTSTONE DR	Yes
15	9650707328	2.85	MENDOZA, AMADA ; ARRIOLA, LUIS	717 STONEY MOUNTAIN RD	Yes
16	9650708499	0.37	MENDOZA, AMADA ; ARRIOLA, LUIS	0 NO ADDRESS ASSIGNED	No
17	9650800410	0.95	SHOOK, BRAD E ; SHOOK, CARLA A	715 STONEY MOUNTAIN RD	Yes
18	9650801217	0.69	CORN, GUY FRANCIS JR ; CORN, ELOISE MULLINAX	709 STONEY MOUNTAIN RD	Yes
19	9650802270	0.57	BICKFORD, CARLOS P ; BICKFORD, BETTY B	703 STONEY MOUNTAIN RD	Yes

Property Owners with City Water


BANSHA DR
DUNLEER LN
SHANNON RD
WEXFORD DR
MOUNTAIN RD
WESTSIDE VILLAGE RD
TRANSFER STATION DR
Landfill and Transfer Station
Conveince Center
LOT 8
vacant
LOT 2
vacant
LOT 5
vacant
LOT 7
vacant
LOT 3
Elev. 2200
LOT 11
Elev. 2195
LOT 12
Elev. 2220
LOT 13
Vacant
LOT 13
Vacant
LOT 16
vacant
MOONSTONE LN
STONEY MOUNTAIN RD
CONVENIENCE CENTER DR
FLINTSTONE DR
LEVI LN
MAY DR
HAYWOOD RD
WATERBURY CT
MILL POND WAY
COLONIAL WAY
OLD TITUS HILL RD
EVERETTE DR
2140
2150
2160
2170
2180
2190
2200
2210
2220
2230
2240
2250
2260
2270
2280
2290
2300
2310
2320
2330
2340
2350
2360
2370
2380
2390
2400
2410
2420
2430
2440

APPENDIX B

SELECTED BORING AND MONITORING WELL CONSTRUCTION LOGS

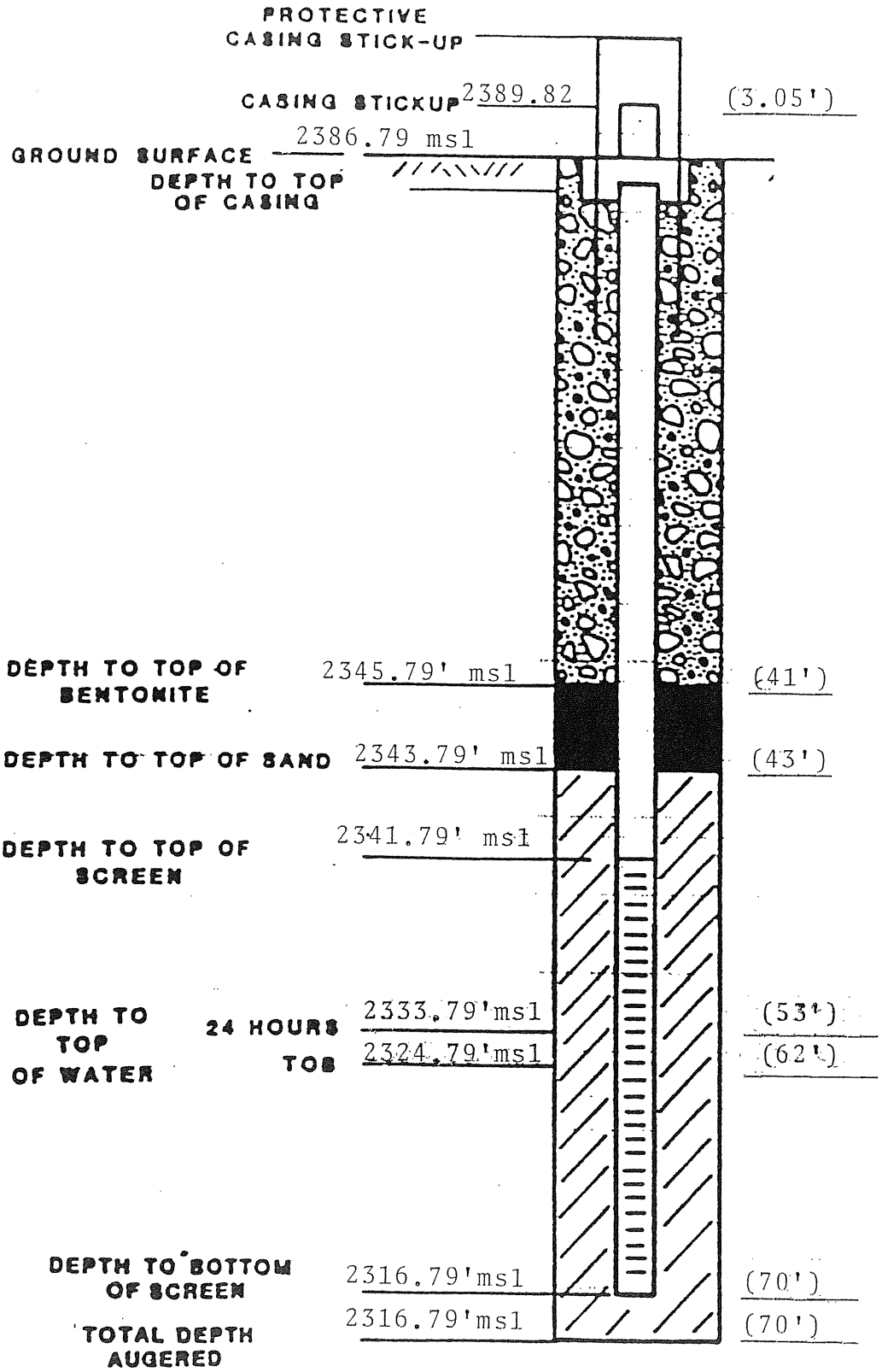
JOB NAME Stoney Mtn. Road Landfill

WELL NO. MW-5

O.D. OF CASING 2 IN.

LENGTH OF SCREEN 25 FT.

SCREEN OPENING SIZE Slotted .01 IN.



JOB NO: V70-663

DATE: Date Drilled: 10/21/94

SINCE

FROEHLING & ROBERTSON, INC.

FULL SERVICE LABORATORIES • ENGINEERS & CHEMISTS

"OVER ONE HUNDRED YEARS OF SERVICE"

SINCE 1881

FROEHLING & ROBERTSON, INC.
FULL SERVICE LABORATORIES • ENGINEERS & CHEMISTS
"OVER ONE HUNDRED YEARS OF SERVICE"

TEST BORING FIELD LOG

PROJECT: Stoney Mtn. Landfill PROJECT NO.: V-70-663 BORING: MW-5

DATE STARTED: 10-21-94 DATE COMPLETED: 10-22-94 DRILLER: Ricky A. SURFACE ELEV.: 2386.79'

STRATA DEPTH From	STRATA DEPTH To	SOIL STRATA / SOIL DESCRIPTION AND REMARKS	SAMPLE TYPE	NO.	DEPTH From	DEPTH To	FIRST 6"	2ND 6"	3RD 6"
0		Stiff, light brown and gray SILT,	ss	1	3.5	5.0	1	2	4
	5	slight to some fine sand.							
5		Dense to very dense, medium to dark	ss	2	8.5	10.0	10	14	50/5"
		gray with tan, white, and trace							
		black fine SAND, some to much silt	ss	3	13.5	15.0	16	16	18
			ss	4	18.5	20.0	30	22	50/4"
			ss	5	23.5	25.0	13	18	24
			ss	6	28.5	30.0	40	50/4"	
			ss	7	38.5	40.0	50/6"		
			ss	8	48.5	50.0	50/3"		
			ss	9	58.5	60.0	35	50/5"	
	70		ss	10	68.5	70.0	50/3"		

METHOD OF DRILLING (Check One)

a. AUGER Hollow Stem SIZE 4.25" ID

b. WASH n/a WATER n/a MUD n/a

BORING SIZE _____ BIT USED _____

CASING SIZE _____ LENGTH _____

UNDISTURBED SAMPLES: NO. 1 SIZE 53'-55' (no recovery)

BAG SAMPLES: NO. _____

SPECIAL TESTS (Hrs. & Explain) _____

WEATHER Clear and warm

NON-DRILLING TIME (Hrs.) _____

BORING LAYOUT _____ MOVING _____

HAULING WATER _____ STANDBY _____

WATER LEVEL: @ 62' DATE 10/21 TIME T.O.B.

@ 53' DATE 10/22 TIME 24-hr

CAVE-IN DEPTH: @ ~~n/a~~ DATE _____ TIME _____

REMARKS: All remarks should be explained on the back of white copy.

FORM 501

NORTH CAROLINA DEPARTMENT OF ENVIRONMENT, HEALTH AND NATURAL RESOURCES
DIVISION OF ENVIRONMENTAL MANAGEMENT - GROUNDWATER SECTION
P.O. BOX 27687 - RALEIGH, NC 27611-7687
PHONE (919)733-3221

WELL CONSTRUCTION RECORD

FOR OFFICE USE ONLY
Quad. No. _____ Serial No. _____
Lat. _____ Long. _____ Pc _____
Minor Basin _____
Basin Code _____
Header Ent. _____ GW-1 Ent. _____

DRILLING CONTRACTOR Froehling & Robertson, Inc.

DRILLER REGISTRATION NUMBER 1045

MW-5
STATE WELL CONSTRUCTION PERMIT NUMBER: _____

1. WELL LOCATION: (Show sketch of the location below)
Nearest Town: Hendersonville
Stoney Mountain Road
(Road, Community, or Subdivision and Lot No.)

County: Henderson

2. OWNER Henderson County Solid Waste Dept.
ADDRESS 802 Stoney Mountain Road (Street or Route No.)
Hendersonville (City or Town) NC (State) 28739 (Zip Code)

3. DATE DRILLED 10/20/94 USE OF WELL Monitor
4. TOTAL DEPTH 70' CUTTINGS COLLECTED [X] Yes [ ] No
5. DOES WELL REPLACE EXISTING WELL? [ ] Yes [X] No
6. STATIC WATER LEVEL: 53' FT. [ ] above [X] below TOP OF CASING,
TOP OF CASING IS _____ FT. ABOVE LAND SURFACE.
7. YIELD (gpm): - METHOD OF TEST -
8. WATER ZONES (depth): _____
9. CHLORINATION: Type - Amount -
10. CASING:

	Depth From	To	Ft.	Diameter	Wall Thickness or Weight/Ft.	Material
	0	45		2"	SCH 40	PVC

11. GROUT:

	Depth From	To	Ft.	Material	Method
	0	41		Cement	Hand
	41	43		Bentonite	Hand

12. SCREEN:

	Depth From	To	Ft.	Diameter	Slot Size	Material
	45	70		2" in.	0.010 in.	PVC
				in.	in.	
				in.	in.	

13. GRAVEL PACK:

	Depth From	To	Ft.	Size	Material
	43	70		30/60	Sand

14. REMARKS: _____

Depth From	To	DRILLING LOG Formation Description
0	5	Brown sandy SILT
5	70	SAPROLITE - Grey to brown silty SAND

If additional space is needed use back of form.

LOCATION SKETCH
(Show direction and distance from at least two State Roads, or other map reference points)

I DO HEREBY CERTIFY THAT THIS WELL WAS CONSTRUCTED IN ACCORDANCE WITH 15 NCAC 2C, WELL CONSTRUCTION STANDARDS, AND THAT A COPY OF THIS RECORD HAS BEEN PROVIDED TO THE WELL OWNER.

SIGNATURE OF CONTRACTOR OR AGENT — DATE 10/20/95

GW-1 REVISED 2/90

Submit original to Division of Environmental Management and copy to well owner.

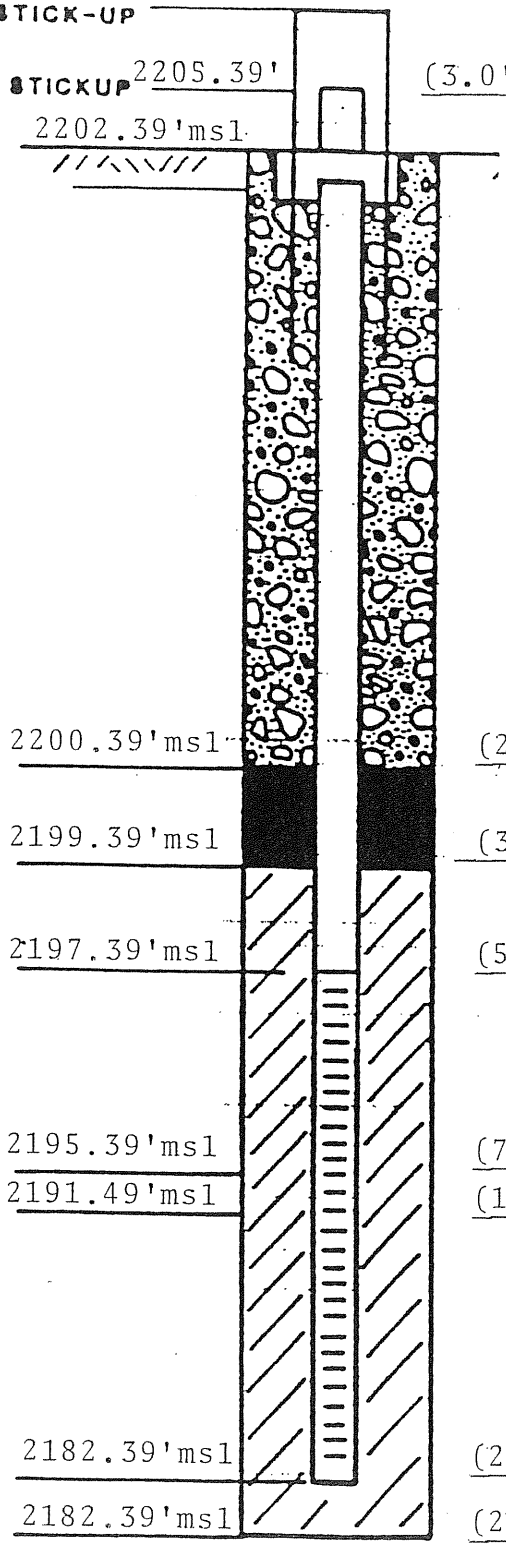
JOB NAME Stoney Mtn. Road Landfill

WELL NO. MW-6

O.D. OF CASING 2 IN.

LENGTH OF SCREEN 15.0 FT.

SCREEN OPENING SIZE slotted.01 IN.



PROTECTIVE CASING STICK-UP		
CASING STICKUP	2205.39'	(3.0')
GROUND SURFACE	2202.39'msl	
DEPTH TO TOP OF CASING		
DEPTH TO TOP OF BENTONITE	2200.39'msl	(2.0')
DEPTH TO TOP OF SAND	2199.39'msl	(3.0')
DEPTH TO TOP OF SCREEN	2197.39'msl	(5.0')
DEPTH TO TOP OF WATER — 24 HOURS	2195.39'msl	(7.0')
DEPTH TO TOP OF WATER — TOB	2191.49'msl	(10.9')
DEPTH TO BOTTOM OF SCREEN	2182.39'msl	(20')
TOTAL DEPTH AUGERED	2182.39'msl	(20')

JOB NO: V70-663

DATE: Date Drilled: 10/19/94

SINCE

FROEHLING & ROBERTSON, INC.

FULL SERVICE LABORATORIES • ENGINEERS & CHEMISTS

"OVER ONE HUNDRED YEARS OF SERVICE"

SINCE 1881

FROEHLING & ROBERTSON, INC.
FULL SERVICE LABORATORIES • ENGINEERS & CHEMISTS
"OVER ONE HUNDRED YEARS OF SERVICE"

TEST BORING FIELD LOG

PROJECT: Stoney Mtn. Landfill PROJECT NO.: V70-663 BORING: MW-6

DATE STARTED: 10-19-94 DATE COMPLETED: 10-20-94 DRILLER: Ricky A. SURFACE ELEV.: 2202.39'

STRATA DEPTH From	STRATA DEPTH To	SOIL STRATA / SOIL DESCRIPTION AND REMARKS	SAMPLE TYPE	NO.	DEPTH From	DEPTH To	FIRST 6"	2ND 6"	3RD 6"
0		Firm to stiff, light brown and tan	ss	1	3.5	5.0	4	6	9
		w/gray SILT, some to much fine							
		sand, trace to some fine mica.	ss	2	8.5	10.0	3	3	4
			ss	3	13.5	15.0	4	6	9
	20.0		ss	4	18.5	20.0	10	13	15

METHOD OF DRILLING (Check One)

a. AUGER Hollow Stem SIZE 4.25" ID

b. WASH n/a WATER n/a MUD n/a

BORING SIZE _____ BIT USED _____

CASING SIZE _____ LENGTH _____

UNDISTURBED SAMPLES: NO. 1 SIZE 3" Shelby 6'-8'

BAG SAMPLES: NO. _____

SPECIAL TESTS (Hrs. & Explain) _____

WEATHER Cloudy w/slight rain, warm

NON-DRILLING TIME (Hrs.) _____

BORING LAYOUT _____ MOVING _____

HAULING WATER _____ STANDBY _____

WATER LEVEL: @ 10.9' DATE 10/19 TIME T.O.B.

@ 7.0' DATE 10/20 TIME 24-hr

CAVE-IN DEPTH: @ n/a DATE _____ TIME _____

REMARKS: All remarks should be explained on the back of white copy.

NORTH CAROLINA DEPARTMENT OF ENVIRONMENT, HEALTH AND NATURAL RESOURCES
DIVISION OF ENVIRONMENTAL MANAGEMENT - GROUNDWATER SECTION
P.O. BOX 27687 - RALEIGH, NC 27611-7687
PHONE (919)733-3221

FOR OFFICE USE ONLY
Quad. No. _____ Serial No. _____
Lat. _____ Long. _____ Pc _____
Minor Basin _____
Basin Code _____
Header Ent. _____ GW-1 Ent. _____

WELL CONSTRUCTION RECORD

DRILLING CONTRACTOR Froehling & Robertson, Inc.

DRILLER REGISTRATION NUMBER 1045

MW-6
STATE WELL CONSTRUCTION PERMIT NUMBER: _____

1. WELL LOCATION: (Show sketch of the location below)

Nearest Town: Hendersonville County: Henderson

Stoney Mountain Road
(Road, Community, or Subdivision and Lot No.)

2. OWNER Henderson Co. Solid Waste Dept.

ADDRESS 802 Stoney Mountain Road (Street or Route No.)
Hendersonville NC 28739
City or Town State Zip Code

3. DATE DRILLED 10/19/94 USE OF WELL Monitor

4. TOTAL DEPTH 20' CUTTINGS COLLECTED [X] Yes [ ] No

5. DOES WELL REPLACE EXISTING WELL? [ ] Yes [X] No

6. STATIC WATER LEVEL: 7 FT. [ ] above [X] below TOP OF CASING,
TOP OF CASING IS _____ FT. ABOVE LAND SURFACE.

7. YIELD (gpm): - METHOD OF TEST -

8. WATER ZONES (depth): -
-

9. CHLORINATION: Type - Amount -

10. CASING:

	Depth From	To	Ft.	Diameter	Wall Thickness or Weight/Ft.	Material
From	0	5	Ft.	2"	SCH 40	PVC
From			Ft.			
From			Ft.			

11. GROUT:

	Depth From	To	Ft.	Material	Method
From	0	2	Ft.	Cement	Hand
From	2	3	Ft.	Bentonite	Hand

12. SCREEN:

	Depth From	To	Ft.	Diameter	Slot Size	Material
From	5	20	Ft.	2" in.	0.010 in.	PVC
From			Ft.	in.	in.	
From			Ft.	in.	in.	

13. GRAVEL PACK:

	Depth From	To	Ft	Size	Material
From	3	20	Ft	30/60	Sand
From			Ft.		

14. REMARKS: _____

DRILLING LOG

Depth From	To	Formation Description
0	20	Light brown sandy SILT

If additional space is needed use back of form.

LOCATION SKETCH
(Show direction and distance from at least two State Roads, or other map reference points)

I DO HEREBY CERTIFY THAT THIS WELL WAS CONSTRUCTED IN ACCORDANCE WITH 15 NCAC 2C, WELL CONSTRUCTION STANDARDS, AND THAT A COPY OF THIS RECORD HAS BEEN PROVIDED TO THE WELL OWNER.

[signature] 10/25/95
SIGNATURE OF CONTRACTOR OR AGENT DATE

GW-1 REVISED 2/90

Submit original to Division of Environmental Management and copy to well owner.

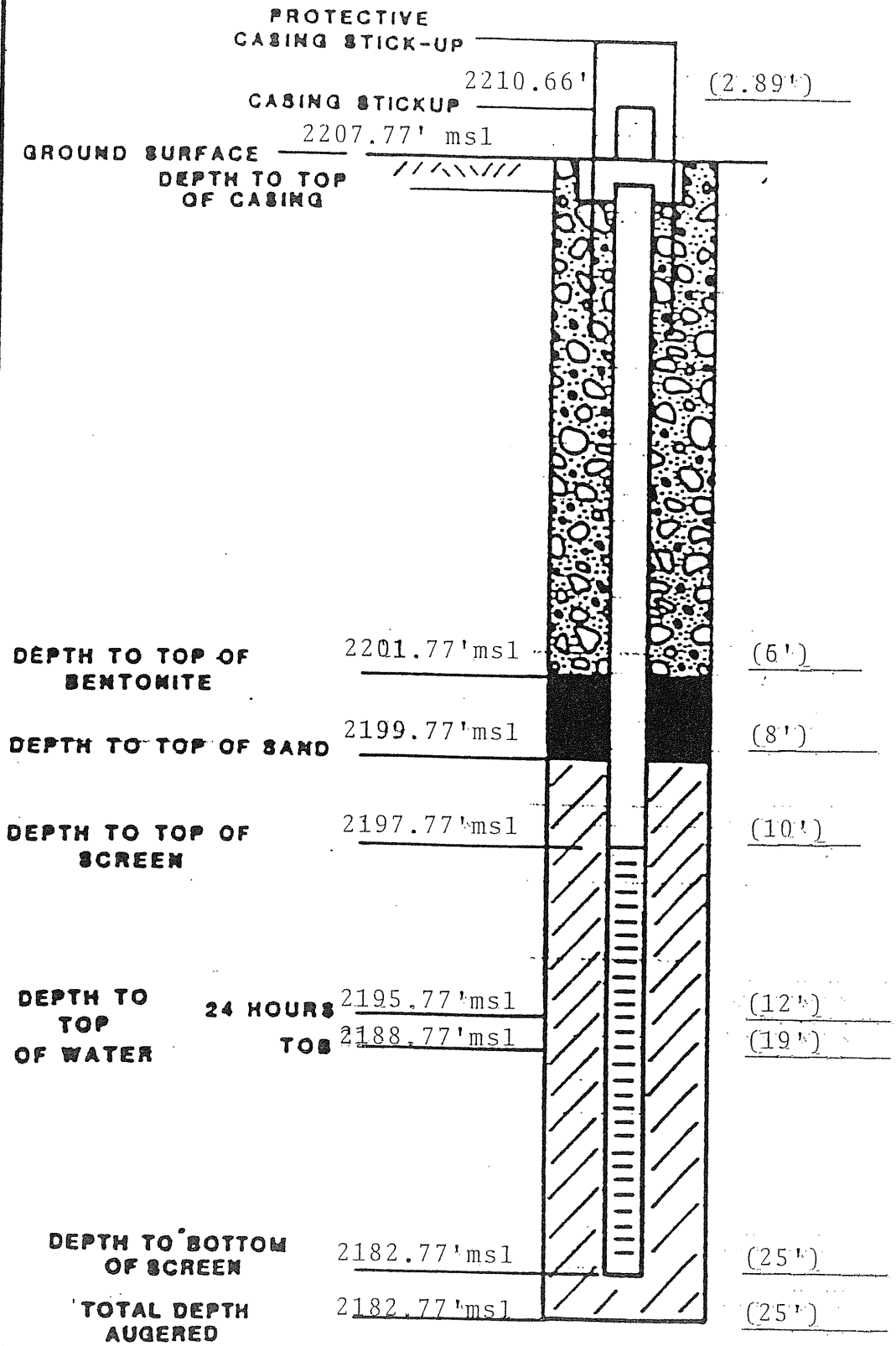
JOB NAME Stoney Mtn. Road Landfill

WELL NO. MW-7

O.D. OF CASING 2 IN.

LENGTH OF SCREEN 15.0 FT.

SCREEN OPENING SIZE slotted.01 IN.



JOB NO: V70-663

DATE: Date Drilled: 10/17/94

SINCE

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FULL SERVICE LABORATORIES • ENGINEERS & CHEMISTS
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TEST BORING FIELD LOG

PROJECT: Stoney Mtn. Landfill PROJECT NO.: V-70-663 BORING: MW-7

DATE STARTED: 10-17-94 DATE COMPLETED: 10-18-94 DRILLER: Ricky A. SURFACE ELEV.: 2207.77'

STRATA DEPTH From	STRATA DEPTH To	SOIL STRATA / SOIL DESCRIPTION AND REMARKS	SAMPLE TYPE	NO.	DEPTH From	DEPTH To	FIRST 6"	2ND 6"	3RD 6"
0		Firm to stiff, medium gray and tan	ss	1	3.5	5.0	4	4	6
		w/white SILT, some to much fine							
	7.0	sand, some fine mica.	ss	2	8.5	10.0	4	2	4
7.0		Medium dense, light gray with tan							
		and white fine SAND, much silt,	ss	3	13.5	15.0	4	4	3
		trace to some fine mica.							
			ss	4	18.5	20.0	4	4	4
	25.0		ss	5	23.5	25.0	3	3	4

METHOD OF DRILLING (Check One)

a. AUGER Hollow Stem SIZE 4.25" ID

b. WASH n/a WATER n/a MUD n/a

BORING SIZE _____ BIT USED _____

CASING SIZE _____ LENGTH _____

UNDISTURBED SAMPLES: NO. 1 SIZE 3" OD Shelby @ 6'-8'

BAG SAMPLES: NO. _____

SPECIAL TESTS (Hrs. & Explain) _____

WEATHER Clear and warm

NON-DRILLING TIME (Hrs.) _____

BORING LAYOUT _____ MOVING _____

HAULING WATER _____ STANDBY _____

WATER LEVEL: @ 19' DATE 10/17 TIME T.O.B.

@ 12' DATE 10/18 TIME 24-hr

CAVE-IN DEPTH: @ n/a DATE _____ TIME _____

REMARKS: All remarks should be explained on the back of white copy.

NORTH CAROLINA DEPARTMENT OF ENVIRONMENT, HEALTH AND NATURAL RESOURCES
DIVISION OF ENVIRONMENTAL MANAGEMENT - GROUNDWATER SECTION
P.O. BOX 27687 - RALEIGH, NC 27611-7687
PHONE (919)733-3221

FOR OFFICE USE ONLY
Quad. No. _____ Serial No. _____
Lat. _____ Long. _____ Pc _____
Minor Basin _____
Basin Code _____
Header Ent. _____ GW-1 Ent. _____

WELL CONSTRUCTION RECORD

DRILLING CONTRACTOR Froehling & Robertson, Inc.

DRILLER REGISTRATION NUMBER 1045

MW-7
STATE WELL CONSTRUCTION PERMIT NUMBER: _____

1. WELL LOCATION: (Show sketch of the location below)

Nearest Town: Hendersonville

Stoney Mountain Road
(Road, Community, or Subdivision and Lot No.)

County: Henderson

2. OWNER Henderson Co. Solid Waste Dept.

ADDRESS 802 Stoney Mountain Raod (Street or Route No.)
Hendersonville (City or Town) NC (State) 28739 (Zip Code)

3. DATE DRILLED 10/17/94 USE OF WELL Monitor

4. TOTAL DEPTH 25' CUTTINGS COLLECTED [X] Yes [ ] No

5. DOES WELL REPLACE EXISTING WELL? [X] Yes [ ] No

6. STATIC WATER LEVEL: 12 FT. [ ] above [X] below TOP OF CASING,
TOP OF CASING IS _____ FT. ABOVE LAND SURFACE.

7. YIELD (gpm): - METHOD OF TEST -

8. WATER ZONES (depth): -
-

9. CHLORINATION: Type - Amount -

10. CASING:

	Depth From	To	Diameter	Wall Thickness or Weight/Ft.	Material
	0	10	2"	SCH 40	PVC

11. GROUT:

	Depth From	To	Material	Method
	0	6	Cement	Hand
	6	8	Bentonite	Hand

12. SCREEN:

	Depth From	To	Diameter	Slot Size	Material
	10	25	2"	0.010	PVC

13. GRAVEL PACK:

	Depth From	To	Size	Material
	8	25	30/60	Sand

DRILLING LOG

Depth From	To	Formation Description
0	7	Grey tan sandy SILT with trace of clay
7	25	Grey-white-tan silty SAND

If additional space is needed use back of form.

LOCATION SKETCH
(Show direction and distance from at least two State Roads, or other map reference points)

14. REMARKS: _____

I DO HEREBY CERTIFY THAT THIS WELL WAS CONSTRUCTED IN ACCORDANCE WITH 15 NCAC 2C, WELL CONSTRUCTION STANDARDS, AND THAT A COPY OF THIS RECORD HAS BEEN PROVIDED TO THE WELL OWNER.

[signature] 10/25/95
SIGNATURE OF CONTRACTOR OR AGENT DATE

Submit original to Division of Environmental Management and copy to well owner.

GW-1 REVISED 2/90

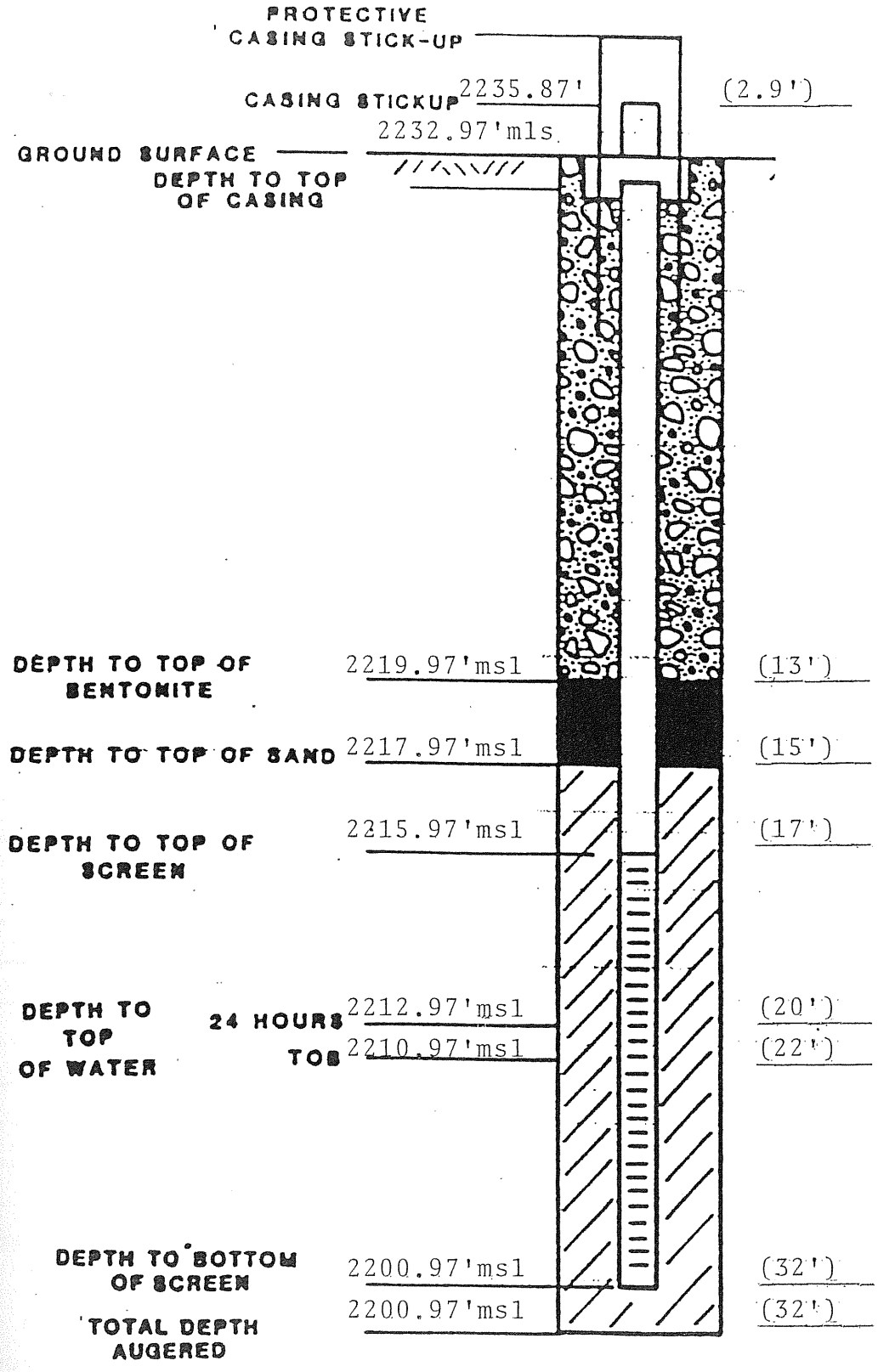
JOB NAME Stoney Mtn. Road Landfill

WELL NO. MW-8

O.D. OF CASING 2 IN.

LENGTH OF SCREEN 15.0 FT.

SCREEN OPENING SIZE slotted.010 IN.



JOB NO: V70-663

DATE: Date Drilled: 10/18/94

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TEST BORING FIELD LOG

PROJECT: Stoney Mtn. Landfill PROJECT NO.: V-70-663 BORING: MW-8

DATE STARTED: 10-18-94 DATE COMPLETED: 10-19-94 DRILLER: Ricky A. SURFACE ELEV.: 2232.97'

STRATA DEPTH From	STRATA DEPTH To	SOIL STRATA / SOIL DESCRIPTION AND REMARKS	SAMPLE TYPE	NO.	DEPTH From	DEPTH To	FIRST 6"	2ND 6"	3RD 6"
0		Firm to stiff, tan and orange, w/	ss	1	3.5	5.0	3	4	4
		trace gray and brown SILT, some to							
		much fine sand, trace to some fine	ss	2	8.5	10.0	5	5	5
		mica.							
			ss	3	13.5	15.0	4	4	6
	22.0		ss	4	18.5	20.0	3	3	5
22.0		Firm, brown and tan with orange							
		and gray SILT, much fine sand,	ss	5	23.5	25.0	3	4	6
		trace fine mica.							
	30.0		ss	6	28.5	30.0	4	7	8

METHOD OF DRILLING (Check One)

a. AUGER Hollow Stem SIZE 4.25" ID

b. WASH n/a WATER n/a MUD n/a

BORING SIZE _____ BIT USED _____

CASING SIZE _____ LENGTH _____

UNDISTURBED SAMPLES: NO. 1 SIZE 3"OD Shelby @ 11'-13'

BAG SAMPLES: NO. _____

SPECIAL TESTS (Hrs. & Explain) _____

WEATHER Cloudy and cool

NON-DRILLING TIME (Hrs.) _____

BORING LAYOUT _____ MOVING _____

HAULING WATER _____ STANDBY _____

WATER LEVEL: @ 22' DATE 10/18 TIME T.O.B.

@ 20' DATE 10/19 TIME 24-hr

CAVE-IN DEPTH: @ n/a DATE _____ TIME _____

REMARKS: All remarks should be explained on the back of white copy.

NORTH CAROLINA DEPARTMENT OF ENVIRONMENT, HEALTH AND NATURAL RESOURCES
DIVISION OF ENVIRONMENTAL MANAGEMENT - GROUNDWATER SECTION
P.O. BOX 27687 - RALEIGH, NC 27611-7687
PHONE (919)733-3221

FOR OFFICE USE ONLY
Quad. No. _____ Serial No. _____
Lat. _____ Long. _____ Pc _____
Minor Basin _____
Basin Code _____
Header Ent. _____ GW-1 Ent. _____

WELL CONSTRUCTION RECORD

MW-8

DRILLING CONTRACTOR Froehling & Robertson, Inc.

DRILLER REGISTRATION NUMBER 1045

STATE WELL CONSTRUCTION PERMIT NUMBER: _____

1. WELL LOCATION: (Show sketch of the location below)

Nearest Town: Hendersonville

County: Henderson

Stoney Mountain Road
(Road, Community, or Subdivision and Lot No.)

2. OWNER Henderson Co. Solid Waste Dept.

ADDRESS 802 Stoney Mountain Road
(Street or Route No.)

Hendersonville (City or Town) NC (State) 28739 (Zip Code)

3. DATE DRILLED 10/18/94 USE OF WELL Monitor

4. TOTAL DEPTH 32' CUTTINGS COLLECTED ☒ Yes ☐ No

5. DOES WELL REPLACE EXISTING WELL? ☐ Yes ☒ No

6. STATIC WATER LEVEL: 20' FT. ☐ above ☒ below TOP OF CASING,
TOP OF CASING IS _____ FT. ABOVE LAND SURFACE.

7. YIELD (gpm): - METHOD OF TEST -

8. WATER ZONES (depth): --

9. CHLORINATION: Type -- Amount --

10. CASING:

	Depth From	To	Diameter	Wall Thickness or Weight/Ft.	Material
	0	17 Ft.	2"	SCH 40	PVC
		Ft.			
		Ft.			

11. GROUT:

	Depth From	To	Material	Method
	0	13 Ft.	Cement	Hand
	13	15 Ft.	Bentonite	Hand

12. SCREEN:

	Depth From	To	Diameter	Slot Size	Material
	17	32 Ft.	2" in.	0.010 in.	PVC
		Ft.	in.	in.	
		Ft.	in.	in.	

13. GRAVEL PACK:

	Depth From	To	Size	Material
	15	32 Ft.	30/60	Sand
		Ft.		

14. REMARKS:

DRILLING LOG

Depth From	To	Formation Description
0	22	Tan-orange-brown sandy SILT
22	32	Brown-tan-orange sandy SILT

If additional space is needed use back of form.

LOCATION SKETCH
(Show direction and distance from at least two State Roads, or other map reference points)

I DO HEREBY CERTIFY THAT THIS WELL WAS CONSTRUCTED IN ACCORDANCE WITH 15 NCAC 2C, WELL CONSTRUCTION STANDARDS, AND THAT A COPY OF THIS RECORD HAS BEEN PROVIDED TO THE WELL OWNER.

SIGNATURE OF CONTRACTOR OR AGENT _____ DATE 10/25/95

GW-1 REVISED 2/90

Submit original to Division of Environmental Management and copy to well owner.

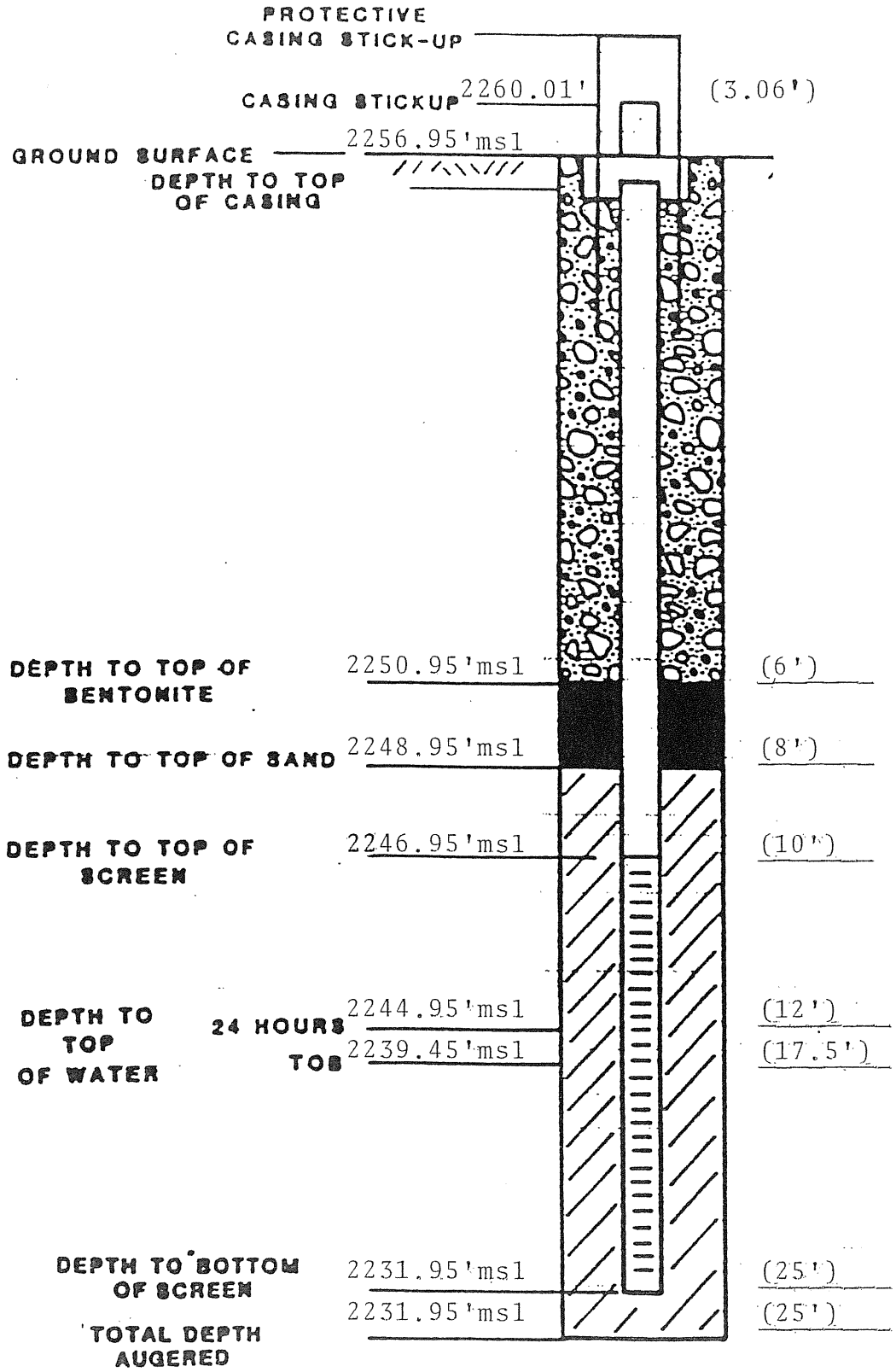
JOB NAME Stoney Mtn. Road Landfill

WELL NO. MW-9

O.D. OF CASING 2 IN.

LENGTH OF SCREEN 15.0 FT.

SCREEN OPENING SIZE slotted.010 IN.



JOB NO: V70-663

DATE: Date Drilled: 10/20/94

SINCE

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SINCE 1881

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"OVER ONE HUNDRED YEARS OF SERVICE"

TEST BORING FIELD LOG

PROJECT: Stoney Mtn. Landfill PROJECT NO.: V-70-663 BORING: MW-9

DATE STARTED: 10-18-94 DATE COMPLETED: 10-19-94 DRILLER: Ricky A. SURFACE ELEV.: 2256.95'

STRATA DEPTH From	STRATA DEPTH To	SOIL STRATA / SOIL DESCRIPTION AND REMARKS	SAMPLE TYPE	NO.	DEPTH From	DEPTH To	FIRST 6"	2ND 6"	3RD 6"
0		Medium stiff, reddish brown and tan	ss	1	3.5	5.0	3	3	5
	2	SILT, some fine sand, trace organics							
2		Medium stiff to stiff, grayish	ss	2	8.5	10.0	4	4	4
		brown and olive SILT, some to much							
		fine sand, variable mica content.	ss	3	13.5	15.0	3	3	4
		Incidental orange tones throughout.							
			ss	4	18.5	20.0	5	5	5
	25.0		ss	5	23.5	25.0	7	10	11

METHOD OF DRILLING (Check One)

a. AUGER Hollow Stem SIZE 4.25" ID

b. WASH n/a WATER n/a MUD n/a

BORING SIZE _____ BIT USED _____

CASING SIZE _____ LENGTH _____

UNDISTURBED SAMPLES: NO. 1 SIZE 3" OD Shelby @ 11'-13'

BAG SAMPLES: NO. _____

SPECIAL TESTS (Hrs. & Explain) _____

WEATHER Cloudy and warm

NON-DRILLING TIME (Hrs.) _____

BORING LAYOUT _____ MOVING _____

HAULING WATER _____ STANDBY _____

WATER LEVEL: @ 17.5' DATE 10/18 TIME T.O.B.

@ 12' DATE 10/19 TIME 24-hr

CAVE-IN DEPTH: @ n/a DATE _____ TIME _____

REMARKS: All remarks should be explained on the back of white copy.

NORTH CAROLINA DEPARTMENT OF ENVIRONMENT, HEALTH AND NATURAL RESOURCES
DIVISION OF ENVIRONMENTAL MANAGEMENT - GROUNDWATER SECTION
P.O. BOX 27687 - RALEIGH, NC 27611-7687
PHONE (919)733-3221

WELL CONSTRUCTION RECORD

FOR OFFICE USE ONLY
Quad. No. _____ Serial No. _____
Lat. _____ Long. _____ Pc _____
Minor Basin _____
Basin Code _____
Header Ent. _____ GW-1 Ent. _____

DRILLING CONTRACTOR Froehling & Robertson, Inc.

DRILLER REGISTRATION NUMBER 1045

MW-9
STATE WELL CONSTRUCTION PERMIT NUMBER: _____

1. WELL LOCATION: (Show sketch of the location below)

Nearest Town: Hendersonville

Stoney Mountain Road
(Road, Community, or Subdivision and Lot No.)

County: Henderson

2. OWNER Henderson County Solid Waste Dept.

ADDRESS 802 Stoney Mountain Road
(Street or Route No.)

Hendersonville, NC 28739
City or Town State Zip Code

3. DATE DRILLED 10/20/94 USE OF WELL Monitor

4. TOTAL DEPTH 25' CUTTINGS COLLECTED [XX] Yes [ ] No

5. DOES WELL REPLACE EXISTING WELL? [ ] Yes [X] No

6. STATIC WATER LEVEL: 12' FT. [ ] above [X] below TOP OF CASING,
TOP OF CASING IS _____ FT. ABOVE LAND SURFACE.

7. YIELD (gpm): - METHOD OF TEST -

8. WATER ZONES (depth): -

9. CHLORINATION: Type - Amount -

10. CASING:

	Depth From	To	Diameter	Wall Thickness or Weight/Ft.	Material
	0	10	2	SCH 40	PVC

11. GROUT:

	Depth From	To	Material	Method
	0	6'	Cement	Hand
	6'	8'	Bentonite	Hand

12. SCREEN:

	Depth From	To	Diameter	Slot Size	Material
	10'	25'	2"	0.010	PVC

13. GRAVEL PACK:

	Depth From	To	Size	Material
	8	25	30/60	Sand

14. REMARKS:

Depth From	To	DRILLING LOG Formation Description
		Grey to olive
0	2	Brown sandy SILT
2	25	Olive brown sandy SILT

If additional space is needed use back of form.

LOCATION SKETCH
(Show direction and distance from at least two State Roads, or other map reference points)

I DO HEREBY CERTIFY THAT THIS WELL WAS CONSTRUCTED IN ACCORDANCE WITH 15 NCAC 2C, WELL CONSTRUCTION STANDARDS, AND THAT A COPY OF THIS RECORD HAS BEEN PROVIDED TO THE WELL OWNER.

SIGNATURE OF CONTRACTOR OR AGENT 10/25/95 DATE

GW-1 REVISED 2/90

Submit original to Division of Environmental Management and copy to well owner.

CDM Camp Dresser & McKee

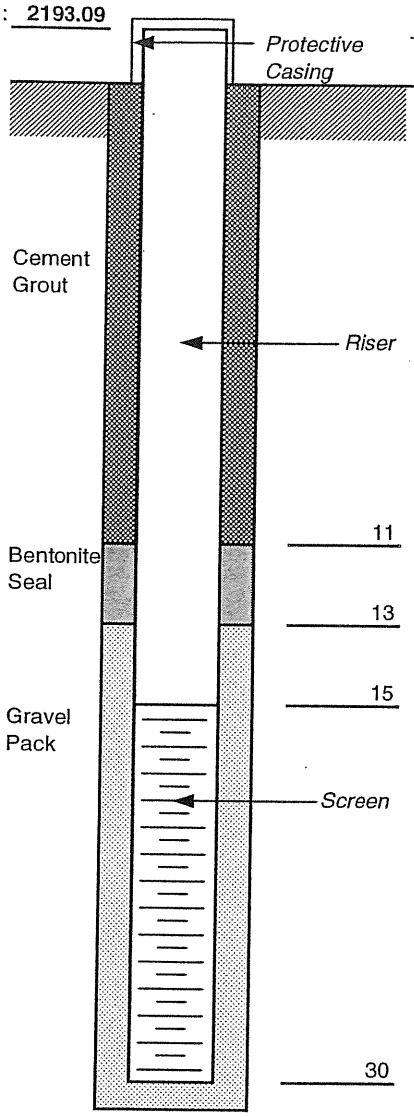
environmental engineers, scientists,
planners & management consultants

WELL CONSTRUCTION SUMMARY

Project: Stoney Mtn. Road GW Assessment Location: Hendersonville, North Carolina

Well No.: AMW-1s
Permit No.: 0

TOC elev.: 2193.09



Type: *Stick-up*

DRILLING SUMMARY

Drilling Company: SAEDACCO
Driller: Steve Poloniewicz
Drill Rig/Model: Gus Pach 1300 AXR
Borehole Diameters: 6-inch
Bits/Depths: 6" Air Hammer (0'-30' bls)
Total Depth: 30 ft.
Depth To Water: 15.52 ft. btoc
Supervisor Geologist: Phil Nicholson

WELL DESIGN

Casing Material:	Schedule 40 PVC	Diameter:	2-in.
Screen Size:	15 ft.	Diameter:	2-in.
Slot Size:	0.010-in.	Setting:	15 to 30 ft. bls
Filter Material:	#2 Filter Sand	Setting:	13 to 30 ft. bls
Seals Material:	3/8 in. bentonite pellet	Setting:	11 to 13 ft. bls
Grout:	type I portland cement	Setting:	0 to 11 ft. bls
Surface Casing Material:	Above Grade Steel		

TIME LOG

	Started	Completed
Drilling:	10/15/01	10/15/01
Installation:	10/15/01	10/15/01
Development:	10/16/01	10/16/01

CDM Camp Dresser & McKee

environmental engineers, scientists,
planners & management consultants

LOG OF BORING

BORING AMW-1s
Page 1 of 1
Permit #:
Job #: 10002-34072

Project Stoney Mtn. Road GW Assessmei Location Hendersonville, North Carolina
Date Drilled 15-Oct-01 Drilling Co.: SAEDACCO
Total Depth 30 ft. bls Method Used: 6-inch Air Rotary
Inspector Phil Nocholson Organic Vapor Inst: NA Water elev: 13.5 ft. bls

Depth (feet)	Sample No.	Blows/6" 140 lbs.	Sample Inter.	Adv/Rec (feet)	Org. Vap (ppm)	Sample Description	Strata Change	Remarks (time)
5		cuttings				-Moist, gray/brown silty SAND		
10								
15						-SAA (wet at 14' +/-)		
20								
25						-SAA, becoming denser		
30						***Boring Terminated at 30' bls***		
35								
40								
45								

WELL CONSTRUCTION RECORD

DRILLING CONTRACTOR: SAIBDACCO
DRILLER REGISTRATION #: 2284
STATE WELL CONSTRUCTION PERMIT#:

1. WELL USE (Check Applicable Box): Residential ☐ Municipal ☐ Industrial ☐ Agricultural ☐ Monitoring ☐ Recovery ☑ Heat Pump Water Injection ☐ Other ☐ If Other, List Use:

2. WELL LOCATION: (Show sketch of the location below)
Nearest Town: HENDERSON COUNTY LANDFILL County:
STONY MOUNTAIN ROAD
(Road, Community, or Subdivision and Lot No.)

3. OWNER HENDERSON COUNTY LANDFILL
ADDRESS STONY MOUNTAIN ROAD
(Street or Route No.)
HENDERSONVILLE NC
City or Town State Zip Code

4. DATE DRILLED 10-15-01
5. TOTAL DEPTH 30'
6. CUTTINGS COLLECTED YES ☐ NO ☑
7. DOES WELL REPLACE EXISTING WELL? YES ☐ NO ☐
8. STATIC WATER LEVEL Below Top of Casing: _____ FT.
(Use "+" if Above Top of Casing)
9. TOP OF CASING IS 2.5' FT. Above Land Surface*
* Casing Terminated at/or below land surface is illegal unless a variance is issued in accordance with 15A NCAC 2C .0118
10. YIELD (gpm): _____ METHOD OF TEST _____
11. WATER ZONES (depth): _____
12. CHLORINATION: Type _____ Amount _____
13. CASING:

	Depth From	To	Diameter	Wall Thickness or Weight/Ft.	Material
	0.0		2'	SCH 40	PVC

14. GROUT:

	Depth From	To	Material	Method
	0.0		POTLAND	DUMMIE

15. SCREEN:

	Depth From	To	Diameter	Slot Size	Material
			2' in.	.010 in.	PVC
			in.	in.	
			in.	in.	

16. SAND/GRAVEL PACK:

	Depth From	To	Size	Material
			20/30	SILICA SAND

17. REMARKS:

DEPTH

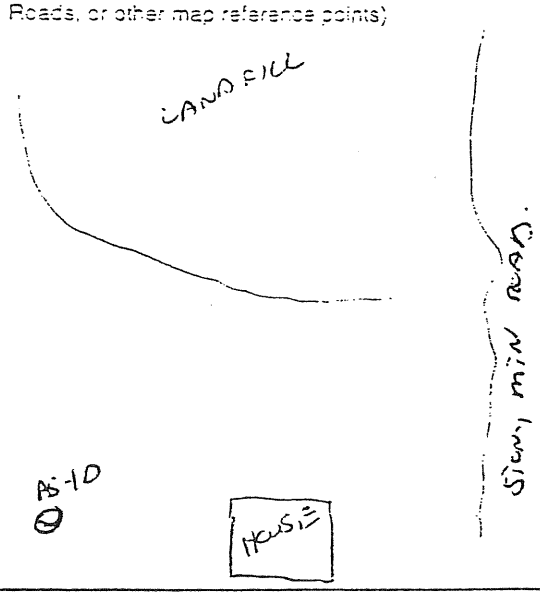
From	To
0	30

DRILLING LOG

Formation Description
RED SILTY CLAY

If additional space is needed use back of form

LOCATION SKETCH
(Show direction and distance from at least two State Roads, or other map reference points)



I DO HEREBY CERTIFY THAT THIS WELL WAS CONSTRUCTED IN ACCORDANCE WITH 15A NCAC 2C, WELL CONSTRUCTION STANDARDS, AND THAT A COPY OF THIS RECORD HAS BEEN PROVIDED TO THE WELL OWNER.

10-17-01

SIGNATURE OF CONTRACTOR OR AGENT DATE

Submit original to Division of Water Quality and copy to well owner.

GW-1 REV. 8/99

CDM Camp Dresser & McKee

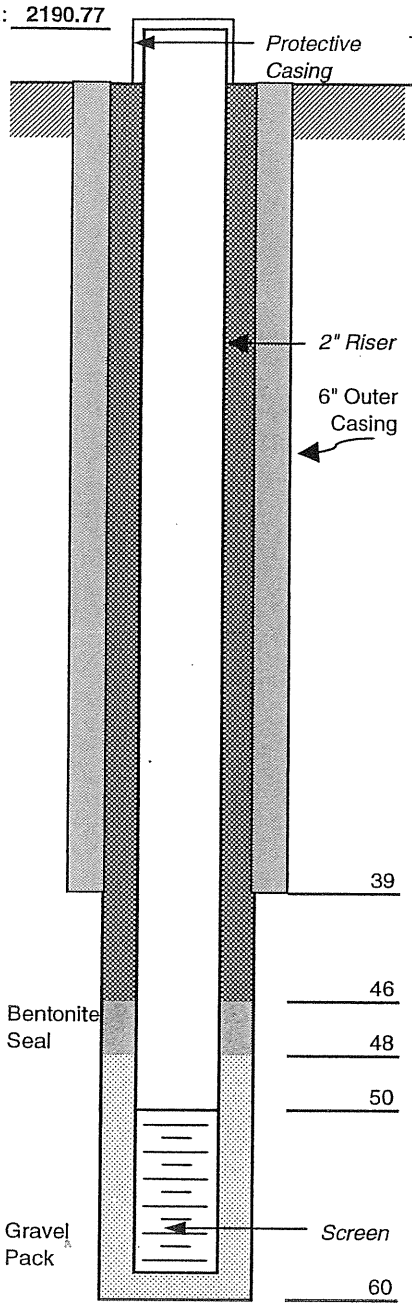
environmental engineers, scientists,
planners & management consultants

WELL CONSTRUCTION SUMMARY

Project: Stoney Mtn. Road GW Assessment Location: Hendersonville, North Carolina

Well No.: AMW-1d
Permit No.: 0

TOC elev.: 2190.77



Type: *III Monitoring Well*

DRILLING SUMMARY

Drilling Company: SAEDACCO
Driller: Steve Poloniewicz
Drill Rig/Model: Gus Pach 1300 AXR
Borehole Diameters: 8.25 in / 6 in
Bits/Depths: 6" Air Hammer 0'-60' bls)
Total Depth: 60 ft.
Depth To Water: 16.00 ft. btoc
Supervisor Geologist: Phil Nicholson

WELL DESIGN

Outer Casing:	Schedule 40 PVC	Diameter:	6-in. (0'-39' bls)
Casing Material:	Schedule 40 PVC	Diameter:	2-in.
Screen Size:	10 ft.	Diameter:	2-in.
Slot Size:	0.010-in.	Setting:	50 to 60 ft. bls
Filter Material:	#2 Filter Sand	Setting:	48 to 60 ft. bls
Seals Material:	3/8 in. bentonite pellet	Setting:	46 to 48 ft. bls
Grout:	type I portland cement	Setting:	1 to 46 ft. bls
Surface Protection:	Above Grade Steel		

TIME LOG

	Started	Completed
Drilling:	10/15/01	10/16/01
Installation:	10/16/01	10/16/01
Development:	10/16/01	10/16/01

CDM Camp Dresser & McKee

environmental engineers, scientists,
planners & management consultants

LOG OF BORING

BORING AMW-1d
Page 1 of 1
Permit #:
Job #: 10002-34072

Project Stoney Mtn. Road GW Assessment Location Hendersonville, North Carolina
Date Drilled 15-Oct-01 Drilling Co.: SAEDACCO
Total Depth 60 ft. bls Method Used: 6-inch Air Rotary
Inspector Phil Nicholson Organic Vapor Inst: Water elev: 14 ft. bls

Depth (feet)	Sample No.	Blows/6" 140 lbs.	Sample Inter.	Adv/Rec (feet)	Org. Vap (ppm)	Sample Description	Strata Change	Remarks (time)
						-Moist, gray/brown, SILT and SAND		
5		cuttings						
10								
15						-Wet, gray/brown, SILT and SAND		
20								
25								
30								
35								
40						Competent Bedrock @ 36' bls -Set 6" outer casing and continue drilling with air rotary		
45								
50								
55						Water producing fracture set from 54 to 58 ft. below land surface.		
60						Boring Terminated at 60' bls		
65								

1636 Mail Service Center - Raleigh,N.C. 27699-1636-Phone (919) 733-3221

WELL CONSTRUCTION RECORD

DRILLING CONTRACTOR: SAIDACCO
DRILLER REGISTRATION #: 2254
STATE WELL CONSTRUCTION PERMIT#:

1. WELL USE (Check Applicable Box): Residential ☐ Municipal ☐ Industrial ☐ Agricultural ☐ Monitoring ☑
Recovery ☑ Heat Pump Water Injection ☐ Other ☐ If Other, List Use:

2. WELL LOCATION: (Show sketch of the location below)
Nearest Town: HENDERSON COUNTY LANDFILL County:
STONY MOUNTAIN ROAD
(Road, Community, or Subdivision and Lot No.)

3. OWNER HENDERSON COUNTY LANDFILL
ADDRESS STONY MOUNTAIN ROAD
(Street or Route No.)
HENDERSONVILLE NC
City or Town State Zip Code

4. DATE DRILLED 10-15-01
5. TOTAL DEPTH 60'
6. CUTTINGS COLLECTED YES ☐ NO ☑
7. DOES WELL REPLACE EXISTING WELL? YES ☐ NO ☐
8. STATIC WATER LEVEL Below Top of Casing: _____ FT.
(Use "+" if Above Top of Casing)
9. TOP OF CASING IS 2.5' FT. Above Land Surface*
* Casing Terminated at/or below land surface is illegal unless a variance is issued in accordance with 15A NCAC 2C .0118
10. YIELD (gpm): _____ METHOD OF TEST _____
11. WATER ZONES (depth): _____
12. CHLORINATION: Type _____ Amount _____
13. CASING:

	Depth		Diameter	Wall Thickness or Weight/Ft.	Material
From 0.0	To 50'	Ft.	2"	SCH 40	PVC
From	To	Ft.			
From	To	Ft.			

14. GROUT:

	Depth		Material	Method
From 0.0	To 46'	Ft.	PORTLAND	TRIMMIE
From	To	Ft.		

15. SCREEN:

	Depth		Diameter	Slot Size	Material
From 50'	To 60'	Ft	2" in.	.010 in.	PVC
From	To	Ft.	in.	in.	
From	To	Ft.	in.	in.	

16. SAND/GRAVEL PACK:

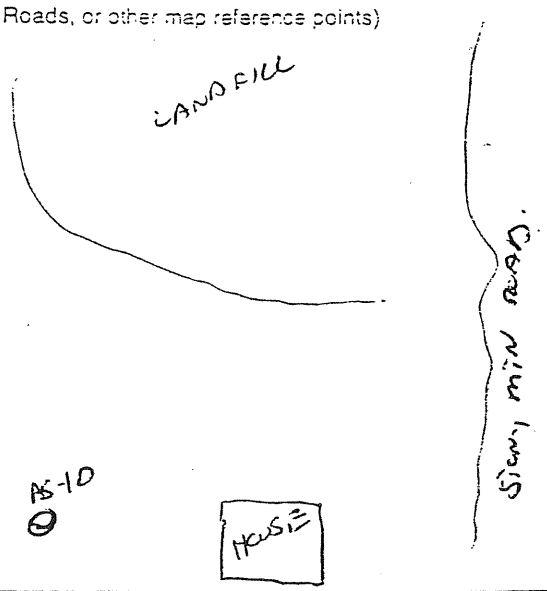
	Depth		Size	Material
From 48'	To 60'	Ft.	20/30	SILICA SAND
From	To	Ft.		

17. REMARKS:

DEPTH From	DEPTH To	DRILLING LOG Formation Description
0	30	RED SILTY CLAY
30	60	BEDROCK

If additional space is needed use back of form

LOCATION SKETCH
(Show direction and distance from at least two State Roads, or other map reference points)



I DO HEREBY CERTIFY THAT THIS WELL WAS CONSTRUCTED IN ACCORDANCE WITH 15A NCAC 2C, WELL CONSTRUCTION STANDARDS, AND THAT A COPY OF THIS RECORD HAS BEEN PROVIDED TO THE WELL OWNER.

10-17-01

SIGNATURE OF CONTRACTOR OR AGENT DATE

Submit original to Division of Water Quality and copy to well owner.

GW-1 REV. 8/99

FIELD BOREHOLE LOG

BOREHOLE NO.: **AMW-2s**

TOTAL DEPTH: **22 ft**

PROJECT INFORMATION	DRILLING INFORMATION
PROJECT: **Henderson County Additional Assessment**	DRILLING CO.: **SAEDACCO**
SITE LOCATION: **Closed Sanitary Landfill**	DRILLER: **Steve Poloniewicz**
JOB NO.: **10002-64124**	RIG TYPE: **Gus Pech 1100E**
GEOLOGIST: **Dan Forbes**	METHOD OF DRILLING: **Hollow-Stem Auger**
PROJECT MANAGER: **Mat Colone**	SAMPLING METHODS: **Standard Split Spoon**
DATE DRILLED: **April 2, 2008**	HAMMER WT./DROP **140 lbs./30-inch drop**

Depth	Soil Symbol	Soil Description	PID	Blows/6" (recovery)	Boring Completion	Well Description
0		TOPSOIL				3 ft Stick-up w/ steel protective riser
		SILTY SAND: Moist to wet, dark gray. Some gravel and fine sand streaks.				2' x 2' Concrete Pad
						Cement grout
						Bentonite
5			0 ppm	4-4-3-6 (14")		
		SILTY SAND: Wet, gray to dark gray. Laminated gray and orange, micaceous.				2-inch Schedule 40 PVC riser and screen
-10			0 ppm	4-6-7-19 (20")		#2 Silica sand filter pack
		SILTY SAND: Wet, brown, micaceous.				
-15			0 ppm	42-50/3 (10")		Screen from 7' to 22' bls
-20			0 ppm	50-4 (4")		

Notes:

FIELD BOREHOLE LOG

BOREHOLE NO.: **AMW-2d**

TOTAL DEPTH: **80 ft**

PROJECT INFORMATION	DRILLING INFORMATION
PROJECT: **Henderson County Additional Assessment**	DRILLING CO.: **SAEDACCO**
SITE LOCATION: **Closed Sanitary Landfill**	DRILLER: **Steve Poloniewicz**
JOB NO.: **10002-64124**	RIG TYPE: **Gus Pech 1100E**
GEOLOGIST: **Dan Forbes**	METHOD OF DRILLING: **Hollow-Stem Auger/Air Rotary**
PROJECT MANAGER: **Mat Colone**	SAMPLING METHODS: **Standard Split Spoon**
DATE DRILLED: **April 2, 2008**	HAMMER WT./DROP **140 lbs./30-inch drop**

Depth	Soil Symbol	Soil Description	PID	Blows/6" (recovery)	Boring Completion	Well Description
						3 ft Stick-up w/ steel protective riser
0		TOPSOIL SILTY SAND: Moist to wet, dark gray. Some gravel and fine sand streaks.				2' x 2' Concrete Pad Cement grout
-5			0 ppm	4-4-3-6 (14")		
		SILTY SAND: Wet, gray to dark gray. Laminated gray and orange, micaceous.				
-10			0 ppm	4-6-7-19 (20")		2-inch Schedule 40 PVC riser and screen
		SILTY SAND: Wet, brown, micaceous.				
-15			0 ppm	42-50/3 (10")		
-20			0 ppm	50/4 (4")		
		SANDY SILT: Wet, brown, micaceous. Some weathered rock frags.				
-25			0 ppm	50/3 (4")		6-inch Schedule 40 PVC Outer Casing
-30			0 ppm	50/3 (0)		
-35		SAND AND SILT: Wet, fine to very fine sand, orange to brown. Some gravel and weathered rock cobbles.	0 ppm	50/3 (0)		
-40			0 ppm	50/3 (0)		

Notes:

FIELD BOREHOLE LOG

BOREHOLE NO.: **AMW-2d**

TOTAL DEPTH: **80 ft**

PROJECT INFORMATION	DRILLING INFORMATION
PROJECT: **Henderson County Additional Assessment**	DRILLING CO.: **SAEDACCO**
SITE LOCATION: **Closed Sanitary Landfill**	DRILLER: **Steve Poloniewicz**
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PROJECT MANAGER: **Mat Colone**	SAMPLING METHODS: **Standard Split Spoon**
DATE DRILLED: **April 2, 2008**	HAMMER WT./DROP **140 lbs./30-inch drop**

Depth	Soil Symbol	Soil Description	PID	Blows/6" (recovery)	Boring Completion	Well Description
-45			0 ppm	50/3 (2")		
-50			0 ppm	50/3 (0)		
-55		BEDROCK: Henderson Augen Gneiss. Very fractured from 70 to 78 feet.	0 ppm	50/2 (0)		
-60						
-65						Bentonite
-70						
-75						#2 Silica sand filter pack Screen from 70' to 80' bls
-80						

Notes:

Established in 1960, Golder Associates is a global, employee-owned organization that helps clients find sustainable solutions to the challenges of finite resources, energy and water supply and management, waste management, urbanization, and climate change. We provide a wide range of independent consulting, design, and construction services in our specialist areas of earth, environment, and energy. By building strong relationships and meeting the needs of clients, our people have created one of the most trusted professional services organizations in the world.

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Golder Associates

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