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September 10, 2014
File No. 02214708.00

Ms. Jackie Drummond, Hydrogeologist
North Carolina Department of Environment and Natural Resources
Division of Waste Management, Solid Waste Section
217 West Jones Street
Raleigh, North Carolina 27603

Subject: **Construction and Demolition Debris Landfill, Pitt County, NC**
Facility Permit Number 74-07
Water Quality Monitoring Report
May 2014 Semiannual Sampling Event

Dear Ms. Drummond:

On behalf of C&D Landfill, Inc., SCS Engineers, PC is submitting the attached Water Quality Monitoring Report documenting May 2014 Semiannual Sampling Event for Construction and Demolition Debris Landfill (C&D Landfill), Facility Permit Number 74-07. The May 2014 monitoring event is the 1st of the requested semiannual groundwater monitoring events for year 2014. In addition to the report, the signed Environmental Monitoring Reporting Form and the electronic data deliverable are being submitted. This groundwater and surface water sampling event was conducted on May 15, 2014. The report provides details pertaining to the sampling event including field activities, laboratory analysis, water quality findings and conclusions. Historical groundwater and surface water results are also included in the report.

In summary, the results of the surface water monitoring event indicate conditions consistent with historic field and analytical data. The results of the groundwater monitoring event indicate ongoing groundwater impact at the assessment monitoring wells MW-3S and MW-8. Assessment monitoring at these wells was triggered by the detection of benzene, and benzene continues to be present. There is no indication of any risk to the public at this time. The next water quality monitoring event at the C&D Landfill is scheduled for November 2014.

If you have any questions or need additional information, please do not hesitate to contact David Garrett at 919-418-4375 (dgarrett@scsengineers.com).

Sincerely,

David Garrett, P.G., P.E.
Project Manager
SCS ENGINEERS, PC

NORTH CAROLINA LICENSED SEAL 983 GEOLOGIST DAVID GARRETT

Marta A. VanDussen
Project Professional
SCS ENGINEERS, PC

cc: C&D Landfill, Inc.

Enclosures: Water Quality Monitoring Report May 2014 Semiannual Sampling Event
Environmental Monitoring Reporting Form (EMR Form)
Electronic Data Deliverable (EDD)

SCS ENGINEERS

WATER QUALITY MONITORING REPORT
MAY 2014
SEMIANNUAL SAMPLING EVENT
CONSTRUCTION AND DEMOLITION DEBRIS LANDFILL, PITT COUNTY
FACILITY PERMIT NO. 74-07

Prepared for:

C&D Landfill, Inc.
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Greenville, North Carolina 27834
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Prepared by:

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Date: September 10, 2014
File No.: 02214708.00 Task 1

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WATER QUALITY MONITORING REPORT
MAY 2014
SEMIANNUAL SAMPLING EVENT
CONSTRUCTION AND DEMOLITION DEBRIS LANDFILL, PITT COUNTY
FACILITY PERMIT NO. 74-07

Presented To:

C&D Landfill, Inc.
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(252) 757-0023

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Attachment 1 – Laboratory Analytical Results
Attachment 2 – Environmental Monitoring Reporting Form and
Electronic Data Deliverable (EDD; Electronic File Only)

SCS Engineers, PC (SCS) is submitting this Water Quality Monitoring Report for the Construction and Demolition Debris Landfill, located in Pitt County, North Carolina on behalf of the C&D Landfill, Inc. This report provides background information, description of field activities, data, summary and analysis of the laboratory analytical results from the groundwater and surface water monitoring sampling event conducted in May 2014.

1 INTRODUCTION

C&D Landfill, Inc. operates the Construction and Demolition Debris Landfill (C&D Landfill) Phase 1 and Phase 2 located at 802 Recycling Lane, Greenville, Pitt County, North Carolina. The location of the landfill is shown on **Figure 1.** This C&D Landfill Phase 1 became operational in 2001 and Phase 2 became operational in 2009. The baseline monitoring was conducted in August 2009 at the Phase 2 of C&D Landfill. Based on review of previously prepared documentation, groundwater monitoring has been performed at the permitted landfill since May 2001 for Phase 1 and since August 2009 for Phase 2.

State and federal regulations applicable to landfills are enforced by the North Carolina Department of Environment and Natural Resources (NCDENR), Division of Waste Management (DWM), Solid Waste Section (SWS). The C&D Landfill (Phase 1 and Phase 2) is permitted by the DENR DWM under Permit No. 74-07, which requires semiannual monitoring of groundwater and surface water quality. This monitoring event is the first (1st) semiannual monitoring event for year 2014. This report provides an evaluation of surface water and groundwater quality for the C&D Landfill Phase 1 and Phase 2.

Currently, the monitoring program network at the landfill consists of nine (9) groundwater monitoring wells within Phase 1, six (6) groundwater monitoring wells within Phase 2, and four (4) on-site surface water sampling locations.

Within Phase 1 area there is one (1) up gradient, background well designated as MW-1S, and eight (8) down gradient compliance wells being designated as MW-2S, MW-3S, MW-4, MW-5, MW-6, MW-7, MW-3A, and MW-8. Within Phase 2 area there is one (1) up gradient, background well designated as MW-9A, and five (5) down gradient compliance wells being designated as MW-10, MW-11, MW-12S, MW-13, and MW-14S.

There are two monitoring programs on-going at the site, the assessment monitoring program related to monitoring wells MW-3S, MW-3A, MW-8, and MW-12S, and detection monitoring related to the remainder of the monitoring wells.

The surface water sample locations are designated as SW-1, SW-2, SW-3, and SW-4. SW-1 is a background surface water location.

The locations of the monitoring wells and surface water points are showed on **Figure 1**.

2 FIELD ACTIVITIES

On May 15, 2014, Environment 1, Incorporated personnel collected groundwater samples from fifteen (15) groundwater monitoring wells and three (3) surface water sampling locations at the C&D Landfill for laboratory analysis of constituents listed in Appendix I of the 40 Code of Federal Regulations (CFR) Part 258 (Constituents for Detection Monitoring), Appendix II of the CFR Part 258 (Constituents for Assessment Monitoring), tetrahydrofuran, cyanide, and sulfide. The groundwater and surface water samples were collected and handled in accordance with the sampling protocols included in the *Sampling and Analysis Plan* dated May 2008 and *Groundwater Assessment Work Plan* dated June 2009, both prepared for the site by David Garret & Associates, as well as the SWS Guidelines for Groundwater, Soil, and Surface Water Sampling.

Groundwater was purged and samples were collected from the monitoring wells using low flow sampling procedures. Total well depth, condition of the casing, and the groundwater recharge rate were used to determine the purging and sample collection method employed at each monitoring well. Prior to groundwater sampling, each monitoring well was purged of a minimum of three well volumes of water. During purging, measurements were taken in the field of conductivity, pH, temperature, water levels, and turbidity. Measured field parameters and additional observations pertaining to the C&D Landfill sampling locations are provided in the laboratory analytical report, which is included in **Attachment 1**. All groundwater samples were placed into laboratory-supplied sample bottles by a technician wearing a new pair of nitrile gloves.

Surface water samples were collected into sample containers by direct submersion in the creek and/or tributary. One round of surface water field parameters consisting of conductivity, pH, temperature, and turbidity, was measured and recorded at each sampling location prior to collecting the sample. Surface water samples were placed into laboratory-supplied sample containers by a technician wearing a new pair of nitrile gloves. All reusable sampling equipment was properly decontaminated between sampling locations. Disposable sampling equipment and material was discarded after each use.

Following collection, each groundwater and surface water sample was immediately placed on ice in a sample cooler for delivery to Environment 1, a North Carolina certified laboratory located in Greenville, North Carolina. Proper chain-of-custody documentation practices were followed during collection and transportation of each sample; the documentation is included in **Attachment 1** of this report. Chain-of-custody provides details of the laboratory analyses requested and performed on the samples. The laboratory analytical report is provided in the **Attachment 1** also.

3 GROUNDWATER LEVELS AND FLOW

Groundwater levels were gauged in the monitoring wells on April 28, 2014. Depths to groundwater were measured using an electronic water level meter that was thoroughly decontaminated between wells. Depth-to-water measurements were taken after the wells were opened for a sufficient period of time to allow water levels to equilibrate with atmospheric pressure. Water level data and groundwater elevation data are summarized on **Table 1**. The depth to groundwater across the site measured relative to the top of the polyvinyl chloride (PVC) casing ranged from 3.67 feet (MW-11; Phase 2) to 11.47 feet (MW-3S; Phase 1), consistent with site surface topography.

Based on the water level data collected during this monitoring event, a Groundwater Surface Contour Map was prepared and is presented as **Figure 1**. Groundwater levels during this monitoring event were slightly higher than the May 2013 levels, due to the wetter weather conditions. The pattern of the water-table contours indicates that the horizontal component of shallow groundwater flow at the site is generally to the south and southwest, which is consistent with the site surface topography and drainage features. In general, the groundwater flow direction is primarily towards the southwestern property boundary and continues to flow in the direction of areas where there are no identified groundwater users, and rather flat gradients extending through agricultural and wooded marshy land leading to the Tar River. Much of the downgradient area is beneath the 100-year flood level and is not anticipated to undergo development or groundwater use in the near future.

The calculated groundwater flow velocity and estimated values for hydraulic conductivity and porosity are included in **Table 1**. The hydraulic gradient of the water table, based on data from **Figure 1**, varies from approximately 0.002 to 0.02 feet per foot at the site. Please note that for all the monitoring wells, the estimated value for hydraulic conductivity comes from individual well aquifer tests performed by EFM, Inc. and effective porosity in the shallow aquifer are values approximated based on the grain-size data from lab testing of site soils for Phase 2 *Design Hydrogeologic Report*.

4 WATER QUALITY FINDINGS

Concentrations of detected constituents in groundwater samples were compared to analyte-specific Solid Waste Section Limits (SWSLs) established by the SWS and NCDENR rule 15A NCAC 02L .0202 Groundwater Quality Standards (2L). Concentrations of detected constituents in surface water samples were compared to analyte-specific SWSLs and the 15A NCAC 2B.0211 surface water quality standards (2B) established for class C waters. If the reported concentration is less than the SWSL, the analytical result is qualified by the laboratory and SCS as estimated per DENR requirement, and is flagged with a "J" qualifier.

Table 2 presents summary of detected constituents only, in groundwater. **Table 3** presents summary of detected constituents only, in surface water. In both tables, constituent analytical results that exceed their associated SWSL, 2L or 2B compliance limit, where applicable, are shaded. **Table 4** presents summary of historically detected constituents only, in the groundwater and/ or surface water samples collected at the C&D Landfill.

A hard copy of the laboratory report from Environment 1, Incorporated with a copy of the chain-of-custody form is included in **Attachment 1**. All laboratory analytical results and field parameter data for groundwater and surface water are included in an electronic data deliverable (EDD) spreadsheet format file specified by the SWS (available as electronic file only).

4.1 GROUNDWATER ANALYTICAL RESULTS

The summary of constituents detected in the groundwater during the May 2014 semiannual water quality monitoring event is provided in the sections below.

4.1.1 VOLATILE ORGANIC COMPOUNDS (VOCS)

Benzene and tetrahydrofuran were detected in one or more of the monitoring wells associated with Phase 1 during this monitoring event. Benzene was detected at concentrations above its applicable SWSL and 2L limit in two assessment wells MW-3S and MW-8.

Benzene, cis-1,2-Dichloroethene, tetrahydrofuran, and vinyl chloride were detected in one or more of the monitoring wells associated with Phase 2 during this monitoring event. All detected VOCs were found at concentrations below applicable compliance limits, except for vinyl chloride in the assessment well MW-12S. The concentration of vinyl chloride exceeded SWSL and 2L standard in the sample collected from this monitoring well.

No other VOCs were reported above their compliance limits in the groundwater samples collected from Phase 1 and Phase 2 monitoring wells. All detections are summarized on **Table 2**.

4.1.2 SEMIVOLATILE ORGANIC COMPOUNDS (SVOCS) AND HERBICIDES

Appendix II SVOCs (per 40 CFR 258) were not detected in the groundwater samples collected from Phase 1 and Phase 2 monitoring wells. One herbicide, 2,4,5-TP (Silvex), was detected at MW-3S (Phase 1 assessment well) at concentration below its SWSL and 2L compliance limit (**Table 2**). No other herbicides were detected in the collected groundwater samples.

4.1.3 METALS

Fifteen (15) metals were detected in one or more of the monitoring wells associated with Phase 1 during May 2014 monitoring event. Out of the fifteen detected metals, barium and cobalt were found at concentrations above the applicable SWSLs in one or more of the collected groundwater samples. Cobalt was detected above its respective 2L compliance limit in MW-2S, MW-3S, MW-7, and MW-8. Vanadium was also present at concentrations in excess of established 2L standard for this metal in majority of the Phase 1 monitoring wells.

Fourteen (14) metals were detected in one or more of the monitoring wells associated with Phase 2 during this monitoring event. Out of fourteen detected metals, arsenic, barium, and cadmium were found equal to or in excess of the applicable SWSLs. Arsenic was found at concentration above 2L standard in MW-12S (Phase 2 assessment well). Cadmium was found at concentration equal to its 2L standard in MW-14S (Phase 2 well). Vanadium is another metal that was present in MW-10, MW-12S, MW-13, and MW-14S at concentrations above 2L compliance limit.

No other metals were reported above their compliance limits in the groundwater samples collected from Phase 1 and Phase 2 monitoring wells. All detections are summarized on **Table 2**.

4.1.4 INORGANIC PARAMETERS

Sulfide was detected in the groundwater samples collected from two monitoring wells MW-3S (Phase 1 assessment well) and MW-12S (Phase 2 assessment well) at concentrations below its SWSL. 2L standard is not established for sulfide. All detections are summarized in **Table 2**.

4.1.5 FIELD PARAMETERS

The pH readings measured in Phase 1 monitoring wells ranged between 6.2 Standard Units (SU) to 6.7 SU and for most of the wells were outside the 2L standard pH range of 6.5 to 8.5 SU specified in the 15A NCAC 02L .0202[c] (**Table 2**). The pH readings measured in Phase 2 monitoring wells ranged between 5.6 Standard Units (SU) to 7.3 SU and for most of the wells were outside the 2L standard pH range. In overall, values of pH appear to be within a normal range at all locations.

Turbidity values at the time of sampling the monitoring wells ranged from 1.76 (MW-3A; Phase 1) to 36.5 (MW-4; Phase 1) nephelometric turbidity units (NTUs). Specific conductivity values

ranged between 253 (MW-13; Phase 2) and 3,380 (MW-8; Phase 1) microsiemens per centimeter (µS/cm).

4.2 SURFACE WATER ANALYTICAL RESULTS

The summary of constituents detected in the surface water during the May 2014 semiannual water quality monitoring event is provided in the sections below.

4.2.1 VOCS

Toluene was the only VOC detected in two surface water locations (SW-1 and SW-2) above its SWSL, however below its applicable 2B standard. No other VOCs were detected in the surface water samples collected at three sampling locations. Further details are presented on **Table 3**.

4.2.2 METALS

Twelve (12) metals were detected in one or more surface water sampling locations. None of detected metals were present at concentrations above the applicable SWSLs and/ or 2B surface water quality standard for these constituents (**Table 3**).

4.2.3 FIELD PARAMETERS

The pH readings measured in all surface water samples ranged between 6.1 to 6.7 SU and were within the 2B surface water quality standard pH range of 6.0 to 9.0 SU specified in the 15A NCAC 2B (**Table 3**).

Turbidity values at the time of sampling the surface water samples ranged from 10.7 (SW-2) to 54.3 (SW-1) NTUs. Specific conductivity values ranged between 86 and 333 (SW-2) µS/cm.

5 SUMMARY

The results of the May 2014 groundwater and surface water quality monitoring event performed at the C&D Landfill indicate that the overall water quality is steady and consistent with the results reported during previous semiannual sampling events. The results are summarized in more detail in the sections below.

5.1 VOCS DETECTION SUMMARY

During the May 2014 monitoring event benzene, cis-1,2-dichloroethene, tetrahydrofuran, and vinyl chloride were detected in one or more of the monitoring wells.

Benzene was found in two assessment wells, MW-3S and MW-8, at concentrations in excess of the 2L compliance limit established for benzene. The presence of benzene is consistent with historical benzene detections for these two wells. Also, benzene was detected above the 2L compliance limit in Phase 2 assessment well MW-12S in the past, however during this sampling event detected benzene concentration was below 2L standard.

Cis-1,2-dichloroethene has been consistently found in the groundwater samples collected from the assessment well MW-12S since May 2011 monitoring event, however the reported results have been below its respective 2L compliance limit.

Vinyl chloride has been consistently present above 2L standard in MW-12S since May 2012 monitoring event. The detected concentration appears the lowest since November 2012 monitoring event.

Tetrahydrofuran was detected in the groundwater samples collected from six (6) monitoring wells, MW-2S, MW-3S, MW-7, MW-8, MW-12S, and MW-14S, as it had been the case in the past. There is no regulatory standard established for tetrahydrofuran, therefore the implications of these results have yet to be determined.

Neither constituent shows a trend and has not been tied to the landfill operations.

One VOC, toluene, was present in two surface water samples, SW-1 (background location) and SW-2, during the May 2014 monitoring event. Toluene was detected in the past in surface water, three times in SW-1, twice in SW-2 and twice in SW-3 (last detection in November 2011). In general, detection of VOCs is spotty within surface water samples and no trends could be discerned from the surface water data.

The historical analytical data for previously detected VOCs for both groundwater and surface water are presented in **Table 4.**

5.2 HERBICIDES DETECTION SUMMARY

2,4,5-TP (Silvex) was detected in the assessment well MW-3S at trace concentration during the May 2014 monitoring event. Last detection of this constituent was reported in May 2010. Data from May 2012 and May 2013 monitoring events indicate trace values of common herbicides

that might have been used during the former agricultural activities at the site. The impact might originate from a drainage ditch between Phase 1 and Phase 2, but the full history of this portion of the site is unknown.

5.3 METALS DETECTION SUMMARY

Arsenic, cadmium, cobalt, thallium, and vanadium, were found in the groundwater at concentrations that equal or exceed their respective 2L compliance limits during this monitoring event in one or more Phase 1 and Phase 2 monitoring wells.

Arsenic was detected above its 2L compliance limit in MW-12S, as it had been found in the groundwater from this well above its limit for the last five monitoring events (since November 2011). Although, detected concentrations show decrease overtime, further observation is necessary. Arsenic was not reported in both background wells, MW-1 and MW-9A during May 2014 monitoring event. Historically arsenic has been consistently present in the groundwater across the site, including the background wells groundwater, however the detected concentrations stay below the compliance limit.

Cadmium was present at concentration equal to its 2L compliance limit in MW-14S (Phase 2 detection well). This is the first instance where cadmium concentration is found at 2L standard for this well. Cadmium was reported in both background wells, MW-1 and MW-9A during May 2014 monitoring event, however detected concentrations were below established 2L standard. In well MW-1 cadmium was detected only once at concentration in excess of 2L standard during May 2009 monitoring event. Historically cadmium has been consistently present in the groundwater across the site, however the detected concentrations stay below the compliance limit.

Cobalt was found in excess of its 2L standard in MW-2S, MW-7, and MW-3S and MW-8 (assessment wells). Historically, cobalt has been present in the groundwater samples collected from all abovementioned wells, however no data trends can be discerned.

Since May 2012, thallium has been detected in MW-7 in excess of its 2L compliance limit. Detected concentrations appear steady between monitoring events.

Vanadium was detected in majority of the sampled monitoring wells, as it had been in the past, and detected concentrations appear slightly decreased overtime.

It has to be noted that turbidity was measured below 37 NTUs at nearly all monitoring wells.

Detected metals in surface water samples were found below their respective 2B standards established for analyzed constituents. No trends can be discerned from the surface water data.

Metal concentrations in groundwater are often dependent on the turbidity or suspended particulates (from the aquifer formation) retrieved with the groundwater sample and also metals naturally occurring in the in-situ soil. The turbidity is a function of the sampling method, well construction, well development, depth to groundwater, and grain size/consolidation of the water-bearing zone. Since unfiltered samples are acidified in the field at the time of sample collection, metals contained within the particulates are dissolved into the water sample. Thus, the presence

of turbidity in groundwater samples often results in elevated (false positive) analytical concentrations for metals. Therefore, the presence of elevated metal concentrations does not necessarily indicate a groundwater impact. Additionally, certain metals are considered naturally occurring within the in-situ soils and not caused by a release from a landfill.

The historical analytical data for metals detected in the past in the groundwater and surface water are presented in **Table 4.**

5.4 INORGANIC AND FIELD PARAMETERS

Sulfide was reported in the groundwater samples collected from two assessment wells, MW-3S and MW-12S, during May 2014 monitoring event. The reported concentrations of sulfide in MW-3S appear consistent with historical data for this parameter. Sulfide analysis for MW-12S was not performed during previous monitoring events, therefore no data trend can be noted.

The results of the field-measured groundwater quality parameters indicate that the values measured in the collected samples were generally within the applicable stabilization criteria with the exception for turbidity, which was elevated, especially in the monitoring well MW-5. The pH readings measured in all monitoring wells were outside the 2L standard pH range specified in the 15A NCAC 02L .0202[c] and indicate slightly acidic groundwater. In general, values of pH appear within a normal range at all locations.

The results of the field-measured surface water quality parameters indicate that the values measured in the collected samples were generally consistent with historic data. Turbidity measurement was the highest in the SW-1, background sample.

5.5 CONCLUSIONS

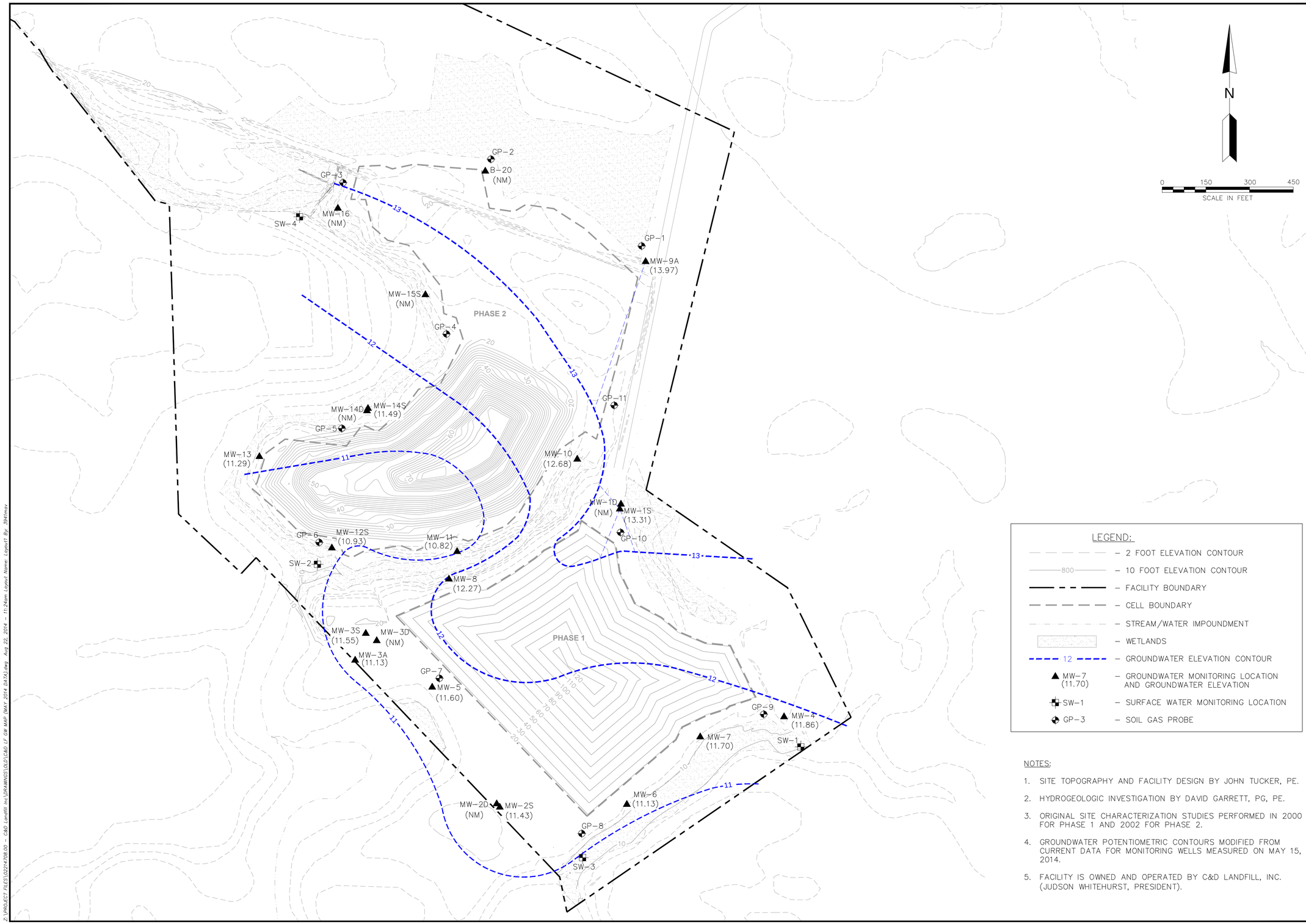
The results of the groundwater monitoring event indicate ongoing groundwater impact at the assessment monitoring wells MW-3S and MW-8. Assessment monitoring at these wells was triggered by the detection of benzene, and benzene continues to be present. The groundwater quality impact does not appear severe and may not be attributable to landfill activities. There is no indication of any risk to the public at this time.

Monitoring well MW-12S is added to the assessment sampling program and will continue to be included in this program, in order to determine if detections at this well are associated with the ones found at nearby assessment well MW-8.

The results of the surface water monitoring event indicate conditions consistent with historic field and analytical data and do not demonstrate an impact on surface water quality due to landfill activities.

The next water quality monitoring event at the C&D Landfill is scheduled for November 2014.

FIGURES



NOTES:

1. SITE TOPOGRAPHY AND FACILITY DESIGN BY JOHN TUCKER, PE.
2. HYDROGEOLOGIC INVESTIGATION BY DAVID GARRETT, PG, PE.
3. ORIGINAL SITE CHARACTERIZATION STUDIES PERFORMED IN 2000 FOR PHASE 1 AND 2002 FOR PHASE 2.
4. GROUNDWATER POTENTIOMETRIC CONTOURS MODIFIED FROM CURRENT DATA FOR MONITORING WELLS MEASURED ON MAY 15, 2014.
5. FACILITY IS OWNED AND OPERATED BY C&D LANDFILL, INC. (JUDSON WHITEHURST, PRESIDENT).

NC CORP. LICENSE NO. C-1837

NO.	REVISION	DATE

SHEET TITLE
MAY 2014
GROUNDWATER CONTOUR MAP

PROJECT TITLE
C&D LANDFILL PHASES 1 & 2
WATER QUALITY REPORT

CLIENT
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PROJ. NO. 02214704.00
DSN. BY: GDG
DWN. BY: TAS
CHK. BY: DMC
QA/RVW BY: MV
APP. BY: GDG

DATE: AUGUST 2014
SCALE: AS SHOWN
DRAWING NO. 1 of 1

Z:\PROJECT FILES\02214708.00 - C&D Landfill Inc\DRAWINGS\OLD\C&D LF GW MAP (MAY 2014 DATA).dwg Aug 22, 2014 - 11:24am Layout Name: Layout1 By: 3941mcv

TABLES

Table 1
Groundwater Level and Flow Data
Construction and Demolition Debris (C&D) Landfill, Pitt County, North Carolina
May 2014

Well ID	TOC Elevation	Well Depth	Screened Interval	Depth To Water	Water Level Elevation
	(feet MSL)				
Well #1 (MW-1S)	20.91	17.21	3 - 13	7.60	13.31
Well #2 (MW-2S)	21.44	16.57	3 - 13	10.01	11.43
Well #3 (MW-3S)	23.02	22.24	8 - 18	11.47	11.55
MW-3A	21.93	23.44	5 -15	10.80	11.13
MW-4	18.42	15.98	3 - 13	6.56	11.86
MW-5	17.90	21.06	3 - 18	6.30	11.60
MW-6	20.03	16.65	3 - 13	8.90	11.13
MW-7	19.40	16.33	3 - 13	7.70	11.70
MW-8	21.21	20.36	3 - 18	8.94	12.27
MW-9A	20.58	20.0	5 - 20	6.61	13.97
MW-10	16.61	20.0	5 - 20	3.93	12.68
MW-11	14.49	20.0	5 - 20	3.67	10.82
MW-12S	16.18	20.0	5 - 20	5.25	10.93
MW-13	20.69	20.0	5 - 20	9.40	11.29
MW-14S	16.60	20.0	15 - 20	5.11	11.49

Well ID	Water Level Elevation	Reference Elevation	Vertical Change	Horizontal Change	K	n	I	v
	(feet)				(feet/day)		(ft/ft)	(ft/day)
MW-3A	11.13	12	0.87	300	0.805	0.08	0.003	0.029
MW-10	12.68	13	0.32	100	0.116	0.05	0.003	0.007
MW-11	10.82	12	1.18	70	0.009	0.04	0.017	0.004
MW-12S	10.93	11	0.07	40	0.322	0.06	0.002	0.009

NOTES:

TOC = top of casing. TOC elevation in feet MSL (mean sea level).

Well Depth and **Screened Interval** in feet below GS.

Depth To Water in feet from TOC.

Phase I monitoring wells (MW-3A through MW-8) were surveyed (July 2001 and November 2002) by Burgess Land Surveying from Greenville, South Carolina.

Phase II monitoring wells (MW-9A through MW-14S) construction data obtained from records furnished by David Garrett, PG, PE.

K - hydraulic conductivity. Values obtained from slug testing performed by EFM, Inc.

ft = feet.

n - effective porosity. Values approximated based on the grain-size data from lab testing of site soils for Phase II Design Hydrogeologic Report.

I - hydraulic gradient. Values obtained by dividing water level elevation difference by horizontal distance between closest two contour lines to each well location.

v - flow rate; GW flow rate calculated based on the modified Darcy equation: $v = (K*I)/n$.

Table 2
Summary of Groundwater Quality Data - Detected Constituents Only
Construction and Demolition Debris (C&D) Landfill, Pitt County, North Carolina
May 2014

Parameter		MDL	MRL	Compliance Limit		Phase I Monitoring Well ID and Analytical Results (µg/L)			
				SWSL	2L Standard	Well #1 (MW-1S)	Well #2 (MW-2S)	Well #3 (MW-3S)	MW-3A
Metals (µg/L)	Antimony	0.02	3.0	6	1	**0.19 J**	ND<0.02 U	ND<0.02 U	**0.03 J**
	Arsenic	0.05	5.0	10	10	ND<0.05 U	**0.12 J**	**3.8 J**	ND<0.05 U
	Barium	0.06	100	100	700	**20.3 J**	**33.0 J**	**343**	**28.6 J**
	Beryllium	0.03	1.0	1	4	ND<0.03 U	**0.06 J**	**0.03 J**	ND<0.03 U
	Cadmium	0.05	1	1	2	**0.11 J**	**0.14 J**	**0.19 J**	**0.15 J**
	Chromium	0.04	5	10	10	**0.45 J**	**0.81 J**	**1.8 J**	**0.29 J**
	Cobalt	0.02	10	10	1	**0.13 J**	**1.0 J**	**5.9 J**	**0.28 J**
	Copper	0.06	10	10	1,000	**1.0 J**	**0.80 J**	**1.1 J**	**0.54 J**
	Lead	0.02	5	10	15	**0.11 J**	**0.19 J**	**0.16 J**	**0.06 J**
	Nickel	0.45	10	50	100	**1.3 J**	**1.6 J**	**3.1 J**	**1.5 J**
	Selenium	0.06	10	10	20	ND<0.06 U	**0.38 J**	**2.9 J**	ND<0.06 U
	Thallium	0.02	1	5.5	0.2	ND<0.02 U	**0.07 J**	ND<0.02 U	**0.06 J**
	Tin	0.06	100	100	2,000	ND<0.06 U	NA	ND<0.06 U	**0.06 J**
	Vanadium	0.07	10	25	0.3	**0.16 J**	ND<0.07 U	**1.3 J**	ND<0.07 U
	Zinc	0.47	10	10	1,000	**0.88 J**	**1.1 J**	**2.6 J**	**1.4 J**
Herbicides (µg/L)	2,4,5-TP (Silvex)	0.42	2	2	50	ND<0.42 U	NA	**0.429 J**	ND<0.42 U
VOCs (µg/L)	Benzene	0.24	1	1	1	ND<0.24 U	ND<0.24 U	**1.10**	ND<0.24 U
	Cis-1,2-Dichloroethene	0.25	5	5	70	ND<0.25 U	ND<0.25 U	ND<0.25 U	ND<0.25 U
	Tetrahydrofuran	0.39	1	NE	NE	ND<0.39 U	**1.00**	**6.50**	ND<0.39 U
	Vinyl Chloride	0.63	1	1	0.03	ND<0.63 U	ND<0.63 U	ND<0.63 U	ND<0.63 U
Inorganics (µg/L)	Sulfide	100	1,000	1,000	NE	ND<100 U	NA	**467 J**	ND<100 U
Field Parameters	pH (S.U.)	NA	NA	NE	6.5 - 8.5	**6.1**	**6.4**	**6.4**	**6.3**
	Conductivity at 25 °C (µS/cm)	1.0	NA	NE	NE	**377**	**1,060**	**1,424**	**258**
	Turbidity (NTU)	1.0	NA	NE	NE	**2.56**	**3.03**	**4.58**	**1.76**

NOTES:

Table 2 lists all detected compounds in the groundwater. Please refer to Environment 1, Incorporated laboratory analysis report for further details.

Groundwater samples were collected on May 15, 2014.

MDL = Method Detection Limit.

MRL = Method Reporting Limit.

Compliance Limit = SWSL or 2L Standard.

SWSL = Solid Waste Section Limit (June 13, 2011).

2L Standard = NCAC Title 15A Subchapter 2L Classifications and Water Quality Standards Applicable to the GWs of North Carolina (April 1, 2013).

J indicates the detected result is below the SWSL.

U indicates concentration below MDL and MRL; non-detect.

µg/L = micrograms per liter.

ND = Not Detected. NE = Not Established. NA = Not Applicable.

Bold font indicates analyte detection above MDL.

Shaded field denotes result that was at or above the Compliance Limit.

S.U. = Standard Units.

µS/cm = microsiemens per centimeter.

NTU = Nephelometric Turbidity Units.

Table 2
Summary of Groundwater Quality Data - Detected Constituents Only
Construction and Demolition Debris (C&D) Landfill, Pitt County, North Carolina
May 2014

Parameter		MDL	MRL	Compliance Limit		Phase I Monitoring Well ID and Analytical Results (µg/L)				
				SWSL	2L Standard	MW-4	MW-5	MW-6	MW-7	MW-8
Metals (µg/L)	Antimony	0.02	3.0	6	1	ND<0.02 U	**0.34 J**	ND<0.02 U	**0.12 J**	**0.07 J**
	Arsenic	0.05	5.0	10	10	ND<0.05 U	**0.28 J**	ND<0.05 U	**2.1 J**	**5.8 J**
	Barium	0.06	100	100	700	**80.2 J**	**67.9 J**	**110**	**291**	**157**
	Beryllium	0.03	1.0	1	4	**0.23 J**	ND<0.03 U	**0.05 J**	**0.04 J**	**0.12 J**
	Cadmium	0.05	1	1	2	**0.08 J**	**0.05 J**	**0.31 J**	**0.29 J**	**0.39 J**
	Chromium	0.04	5	10	10	**1.9 J**	**3.1 J**	**0.38 J**	**6.1 J**	**3.8 J**
	Cobalt	0.02	10	10	1	**0.30 J**	**0.34 J**	**0.22 J**	**5.2 J**	**22**
	Copper	0.06	10	10	1,000	**0.31 J**	**4.0 J**	**0.52 J**	**1.7 J**	**2.0 J**
	Lead	0.02	5	10	15	**0.74 J**	**0.51 J**	**0.04 J**	**0.14 J**	**0.19 J**
	Nickel	0.45	10	50	100	**0.87 J**	**2.2 J**	**0.71 J**	**3.5 J**	**7.8 J**
	Selenium	0.06	10	10	20	ND<0.06 U	ND<0.06 U	ND<0.06 U	**3.4 J**	**4.9 J**
	Thallium	0.02	1	5.5	0.2	ND<0.02 U	**0.02 J**	ND<0.02 U	**0.26 J**	**0.03 J**
	Tin	0.06	100	100	2,000	NA	NA	NA	NA	ND<0.06 U
	Vanadium	0.07	10	25	0.3	**3.2 J**	**1.1 J**	**0.34 J**	**1.3 J**	**1.0 J**
	Zinc	0.47	10	10	1,000	**1.8 J**	**2.0 J**	**0.84 J**	**1.9 J**	**3.4 J**
Herbicides (µg/L)	2,4,5-TP (Silvex)	0.42	2	2	50	NA	NA	NA	NA	ND<0.42 U
VOCs (µg/L)	Benzene	0.24	1	1	1	ND<0.24 U	ND<0.24 U	ND<0.24 U	**0.3 J**	**1.90**
	Cis-1,2-Dichloroethene	0.25	5	5	70	ND<0.25 U	ND<0.25 U	ND<0.25 U	ND<0.25 U	ND<0.25 U
	Tetrahydrofuran	0.39	1	NE	NE	ND<0.39 U	ND<0.39 U	ND<0.39 U	**10.8**	**10.2**
	Vinyl Chloride	0.63	1	1	0.03	ND<0.63 U	ND<0.63 U	ND<0.63 U	ND<0.63 U	ND<0.63 U
Inorganics (µg/L)	Sulfide	100	1,000	1,000	NE	NA	NA	NA	NA	ND<100 U
Field Parameters	pH (S.U.)	NA	NA	NE	6.5 - 8.5	**6.3**	**6.7**	**6.0**	**6.5**	**6.2**
	Conductivity at 25 °C (µS/cm)	1.0	NA	NE	NE	**389**	**573**	**275**	**2,530**	**3,380**
	Turbidity (NTU)	1.0	NA	NE	NE	**36.5**	**117**	**1.92**	**6.61**	**21.1**

NOTES:
Table 2 lists all detected compounds in the groundwater. Please refer to Environment 1, Incorporated laboratory analysis re
Groundwater samples were collected on May 15, 2014.
MDL = Method Detection Limit.
MRL = Method Reporting Limit.
Compliance Limit = SWSL or 2L Standard.
SWSL = Solid Waste Section Limit (June 13, 2011).
2L Standard = NCAC Title 15A Subchapter 2L Classifications and Water Quality Standards Applicable to the GWs of Nor
J indicates the detected result is below the SWSL.
U indicates concentration below MDL and MRL; non-detect.
µg/L = micrograms per liter.
ND = Not Detected. NE = Not Established. NA = Not Applicable.
Bold font indicates analyte detection above MDL.
Shaded field denotes result that was at or above the Compliance Limit.
S.U. = Standard Units.
µS/cm = microsiemens per centimeter.
NTU = Nephelometric Turbidity Units.

Table 2
Summary of Groundwater Quality Data - Detected Constituents Only
Construction and Demolition Debris (C&D) Landfill, Pitt County, North Carolina
May 2014

Parameter		MDL	MRL	Compliance Limit		Phase II Monitoring Well ID and Analytical Results (µg/L)					
				SWSL	2L Standard	MW-9A	MW-10	MW-11	MW-12S	MW-13	MW-14S
Metals (µg/L)	Antimony	0.02	3.0	6	1	ND<0.02 U	ND<0.02 U	ND<0.02 U	**0.10 J**	ND<0.02 U	**0.17 J**
	Arsenic	0.05	5.0	10	10	ND<0.05 U	ND<0.05 U	ND<0.05 U	**11.0**	ND<0.05 U	**0.30 J**
	Barium	0.06	100	100	700	**29.3 J**	**58.9 J**	**18.3 J**	**368**	**52.4 J**	**90.9 J**
	Beryllium	0.03	1.0	1	4	ND<0.03 U	**0.04 J**	**0.03 J**	**0.03 J**	**0.04 J**	**0.03 J**
	Cadmium	0.05	1	1	2	**1.0**	**0.17 J**	**0.25 J**	**0.09 J**	**1.0**	**2.0**
	Chromium	0.04	5	10	10	ND<0.04 U	**0.83 J**	**0.20 J**	**9.0 J**	**0.46 J**	**2.1 J**
	Cobalt	0.02	10	10	1	**0.05 J**	**0.44 J**	**0.19 J**	**0.82 J**	**0.32 J**	**0.24 J**
	Copper	0.06	10	10	1,000	**0.67 J**	**0.38 J**	**0.37 J**	**0.63 J**	**1.0 J**	**1.8 J**
	Lead	0.02	5	10	15	**0.07 J**	**0.10 J**	**0.04 J**	ND<0.02 U	**0.40 J**	**0.42 J**
	Nickel	0.45	10	50	100	**1.3 J**	**1.0 J**	**2.7 J**	**5.9 J**	**1.2 J**	**1.6 J**
	Selenium	0.06	10	10	20	ND<0.06 U	ND<0.06 U	ND<0.06 U	**1.3 J**	ND<0.06 U	ND<0.06 U
	Thallium	0.02	1	5.5	0.2	ND<0.02 U	ND<0.02 U	ND<0.02 U	ND<0.02 U	ND<0.02 U	**0.13 J**
	Tin	0.06	100	100	2,000	NA	NA	NA	ND<0.06 U	NA	NA
	Vanadium	0.07	10	25	0.3	ND<0.07 U	**2.9 J**	ND<0.07 U	**4.1 J**	**1.4 J**	**1.4 J**
	Zinc	0.47	10	10	1,000	**3.4 J**	**1.3 J**	**1.3 J**	**2.0 J**	**2.4 J**	**2.6 J**
Herbicides (µg/L)	2,4,5-TP (Silvex)	0.42	2	2	50	NA	NA	NA	ND<0.42 U	NA	NA
VOCs (µg/L)	Benzene	0.24	1	1	1	ND<0.24 U	ND<0.24 U	ND<0.24 U	**0.40 J**	ND<0.24 U	ND<0.24 U
	Cis-1,2-Dichloroethene	0.25	5	5	70	ND<0.25 U	ND<0.25 U	ND<0.25 U	**0.70 J**	ND<0.25 U	**0.30 J**
	Tetrahydrofuran	0.39	1	NE	NE	ND<0.39 U	ND<0.39 U	ND<0.39 U	**5.50**	ND<0.39 U	**0.80 J**
	Vinyl Chloride	0.63	1	1	0.03	ND<0.63 U	ND<0.63 U	ND<0.63 U	**1.10**	ND<0.63 U	ND<0.63 U
Inorganics (µg/L)	Sulfide	100	1,000	1,000	NE	NA	NA	NA	**230 J**	NA	NA
Field Parameters	pH (S.U.)	NA	NA	NE	6.5 - 8.5	**7.3**	**5.6**	**7.3**	**6.3**	**5.8**	**5.9**
	Conductivity at 25 °C (µS/cm)	1.0	NA	NE	NE	**349**	**434**	**826**	**1,694**	**253**	**562**
	Turbidity (NTU)	1.0	NA	NE	NE	**30.3**	**19.8**	**1.95**	**3.39**	**13.0**	**3.03**

NOTES:
Table 2 lists all detected compounds in the groundwater. Please refer to Environment 1, Incorporated laboratory analysis re
Groundwater samples were collected on May 15, 2014.
MDL = Method Detection Limit.
MRL = Method Reporting Limit.
Compliance Limit = SWSL or 2L Standard.
SWSL = Solid Waste Section Limit (June 13, 2011).
2L Standard = NCAC Title 15A Subchapter 2L Classifications and Water Quality Standards Applicable to the GWs of Nor
J indicates the detected result is below the SWSL.
U indicates concentration below MDL and MRL; non-detect.
µg/L = micrograms per liter.
ND = Not Detected. NE = Not Established. NA = Not Applicable.
Bold font indicates analyte detection above MDL.
Shaded field denotes result that was at or above the Compliance Limit.
S.U. = Standard Units.
µS/cm = microsiemens per centimeter.
NTU = Nephelometric Turbidity Units.

Table 3
Summary of Surface Water Quality Data - Detected Constituents Only
Construction and Demolition Debris (C&D) Landfill, Pitt County, North Carolina
May 2014

Parameter		MDL	MRL	Compliance Limit		Sample Locations and Analytical Results (µg/L)			
				SWSL	2B Standard	SW-1	SW-2	SW-3	SW-4
Metals (µg/L)	Arsenic	0.05	5	10	10	**0.67 J**	**1.4 J**	**0.26 J**	Not Collected
	Barium	0.06	100	100	200,000	**94.3 J**	**72.9 J**	**37.9 J**	Dry
	Beryllium	0.03	1.0	1	6.5	**0.16 J**	**0.04 J**	**0.04 J**	
	Cadmium	0.05	1	1	2	**0.22 J**	ND<0.05 U	ND<0.05 U	
	Chromium	0.04	5	10	50	**1.9 J**	**0.95 J**	**0.51 J**	
	Cobalt	0.02	10	10	4	**0.38 J**	**0.88 J**	**0.31 J**	
	Copper	0.06	10	10	7 (AL)	**2.4 J**	**0.46 J**	**0.40 J**	
	Lead	0.02	5	10	25	**5.2 J**	**0.39 J**	**1.2 J**	
	Nickel	0.45	10	50	88	**0.98 J**	**0.89 J**	ND<0.45 U	
	Thallium	0.02	1	5.5	0.47	**0.02 J**	ND<0.02 U	ND<0.02 U	
	Vanadium	0.07	10	25	NE	**6.0 J**	**0.48 J**	**1.2 J**	
	Zinc	0.47	10	10	50	**9.9 J**	**2.3 J**	**2.7 J**	
VOCs (µg/L)	Toluene	0.23	1	1	11	**3.3**	**3**	ND<0.23 U	
Field Parameters	pH (S.U.)	NA	NA	NE	6.0 - 9.0	**6.1**	**6.7**	**6.1**	
	Conductivity at 25 °C (µS/cm)	NA	NA	NE	NE	**86**	**333**	**86**	
	Turbidity (NTU)	NA	NA	NE	50	**54.3**	**10.7**	**31.9**	

NOTES:
Table 3 lists all detected compounds in the surface water. Please refer to Environment 1, Incorporated laboratory analysis report for further details.
Surface water samples were collected on May 15, 2014.
MDL = Method Detection Limit.
MRL = Method Reporting Limit.
Compliance Limit = SWSL or 2B Standard.
SWSL = Solid Waste Section Limit (June 13, 2011).
2B Standard = Standards, criteria, or toxic concentrations either adopted per 15A NCAC 2B or National Criteria per EPA (Current as of 5/15/2013).
(AL) = Action Level Standard (See 2B .0211 for additional information).
J indicates the detected result is below the SWSL.
U indicates concentration below MDL and MRL; non-detect.
µg/L = micrograms per liter.
ND = Not Detected. NE = Not Established. NA = Not Applicable.
Bold font indicates analyte detection above MDL.
Shaded field denotes result that was at or above the Compliance Limit.
S.U. = Standard Units.
µS/cm = microsiemens per centimeter.
NTU = Nephelometric Turbidity Units.

Table 4

Historical Groundwater and Surface Water Quality Data
Construction and Demolition Debris (C&D) Landfill, Pitt County, North Carolina

Parameter : Antimony CAS No. 7440-36-0

Sample	Compliance Limit (µg/L)			MDL	Analytical Results (µg/L)																		
Date	SWSL	2L Standard	2B Standard		*MW-1S*	*MW-2S*	*MW-3S*	*MW-3A*	*MW-4*	*MW-5*	*MW-6*	*MW-7*	*MW-8*	*MW-9A*	*MW-10*	*MW-11*	*MW-12S*	*MW-13*	*MW-14S*	*SW-1*	*SW-2*	*SW-3*	*SW-4*
Nov-2007	6	1	640		ND	0.4 J	0.1 J		ND	ND	0.2 J	ND	ND							NS	ND	ND	
May-2008				0.08	ND	ND	ND		0.1 J	0.5 J	0.2 J	0.2 J	0.1 J							0.2 J	ND	ND	
Nov-2008					0.1 J	0.1 J	0.1 J		0.1 J	0.1 J	0.2 J	0.1 J	ND							ND	0.6 J	0.1 J	
May-2009				0.06	0.1 J	0.1 J	ND		0.7 J	0.2 J	0.1 J	ND	ND							0.1 J	ND	ND	
Jan-2010				0.06	ND	0.1 J	ND	ND	ND	0.5	ND	ND	ND	0.4 J	ND	ND	ND	ND	0.2 J	0.1 J	0.1 J	0.6 J	0.2 J
May-2010				0.22	ND	0.7 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.7 J	ND	ND	ND	ND	ND	ND	ND
Nov-2010				0.22	ND	ND	ND	ND	ND	0.6 J	ND	ND	ND	ND	ND	ND	0.8 J	ND	ND	ND	ND	ND	ND
May-2011				0.14	0.19 J	ND	ND	ND	ND	0.4 J	ND	ND	ND	ND	ND	ND	0.47 J	ND	ND	ND	0.2 J	ND	0.29 J
Nov-2011				0.14	ND	ND	ND	ND	ND	0.55 J	ND	ND	ND	ND	ND	ND	0.51 J	ND	ND	ND	ND	ND	ND
May-2012				0.02	0.12 J	0.12 J	0.27 J	0.10 J	0.15 J	0.36 J	0.17J	0.16 J	0.13 J	0.03 J	0.04 J	0.06 J	0.24 J	0.10 J	0.34 J	0.13 J	0.09 J	0.05 J	0.04 J
Nov-2012				0.02	0.14 J	0.28 J	0.16 J	0.50 J	0.14 J	0.5 J	0.07 J	0.15 J	0.16 J	0.06 J	0.09 J	0.08 J	0.3 J	0.10 J	0.14 J	ND	0.10 J	ND	ND
May-2013				0.02	0.07 J	0.09 J	ND	0.07 J	ND	0.34 J	0.07 J	0.31 J	0.14 J	0.04 J	0.04 J	0.05 J	0.18 J	0.03 J	0.15 J	0.14 J	0.04 J	0.03 J	DRY
May-2014				0.02	0.19 J	ND<0.02 U	ND<0.02 U	0.03 J	ND<0.02 U	0.34 J	ND<0.02 U	0.12 J	0.07 J	ND<0.02 U	ND<0.02 U	ND<0.02 U	0.10 J	ND<0.02 U	0.17 J	ND<0.02 U	ND<0.02 U	ND<0.02 U	DRY

Parameter : Arsenic CAS No. 7440-38-2

Sample	Compliance Limit (µg/L)			MDL	Analytical Results (µg/L)																		
Date	SWSL	2L Standard	2B Standard		*MW-1S*	*MW-2S*	*MW-3S*	*MW-3A*	*MW-4*	*MW-5*	*MW-6*	*MW-7*	*MW-8*	*MW-9A*	*MW-10*	*MW-11*	*MW-12S*	*MW-13*	*MW-14S*	*SW-1*	*SW-2*	*SW-3*	*SW-4*
Nov-2007	10	10	10		ND	4.2 J	6.7 J		1.3 J	5.3 J	16	6.4 J	ND							NS	2.0 J	0.5 J	
May-2008				0.07	0.5 J	1.3 J	0.4 J		1.0 J	5.0 J	5.3 J	3.6 J	4.5 J							11	1.1 J	0.1 J	
Nov-2008					1.1 J	5.6 J	8.4 J		0.3 J	2.1 J	11	3.3 J	2.7 J							ND	5.3 J	0.9 J	
May-2009				0.17	1.8 J	2.2 J	7.0 J		2.8 J	1.3 J	2.9 J	1.0 J	1.6 J							6.3 J	1.4 J	0.8 J	
Jan-2010				0.17	2.1 J	0.8 J	6.8 J	2.6 J	2.8 J	5.8 J	6.4 J	0.5 J	4.0 J	1.3 J	0.5 J	ND	ND	2.4 J	1.3 J	3.9 J	0.3 J	ND	0.2 J
May-2010				0.04	0.7 J	1.7 J	9.2 J	1.0 J	2.6 J	3.9 J	6.1 J	4.5 J	7.5 J	0.3 J	0.5 J	ND	0.4 J	1.4 J	ND	0.9 J	1.3 J	0.4 J	0.6 J
Nov-2010				0.04	1.9 J	5.6 J	ND	5.4 J	2.3 J	ND	4.8 J	0.9 J	4.0 J	0.6 J	1.1 J	0.6 J	5.3 J	1.8 J	1.6 J	2 J	1.1 J	0.6 J	0.5 J
May-2011				0.10	0.36 J	3.1 J	3.8 J	0.93 J	1.6 J	6.4 J	2.2 J	1.5 J	3.2 J	0.60 J	0.52 J	ND	5.9 J	0.29 J	1.5 J	3.1 J	0.82 J	1.1 J	1.3 J
Nov-2011				0.10	1.1 J	0.9 J	4.9 J	2.2 J	1.9 J	3.3 J	2.4 J	0.81 J	2.7 J	0.50 J	2.5 J	0.23 J	11	0.52 J	1.7 J	2.0 J	2.5 J	0.99 J	0.51 J
May-2012				0.13	0.88 J	6.1 J	4.2 J	2.8 J	2.9 J	6.8 J	2.2 J	2.3 J	5.8 J	0.50 J	1.1 J	0.41 J	24	0.62 J	4.0 J	4.7 J	2.0 J	1.0 J	0.92 J
Nov-2012				0.13	0.74 J	9 J	5.7 J	5.5 J	0.9 J	1.9 J	2.4 J	0.72 J	8.0 J	0.17 J	1.5 J	0.82 J	15	0.76 J	3.7 J	0.93 J	0.68 J	0.50 J	0.82 J
May-2013				0.05	0.02 J	5.3 J	3.7 J	2.4 J	0.83 J	2.4 J	2.4 J	5.0 J	6.2 J	0.15 J	0.74 J	0.58 J	19	0.34 J	5.0 J	1.2 J	0.81 J	0.35 J	DRY
May-2014				0.05	ND<0.05 U	0.12 J	3.8 J	ND<0.05 U	ND<0.05 U	0.28 J	ND<0.05 U	2.1 J	5.8 J	ND<0.05 U	ND<0.05 U	ND<0.05 U	11	ND<0.05 U	0.30 J	0.67 J	1.4 J	0.26 J	DRY

Parameter : Barium CAS No. 7440-39-3

Sample	Compliance Limit (µg/L)			MDL	Analytical Results (µg/L)																		
Date	SWSL	2L Standard	2B Standard		*MW-1S*	*MW-2S*	*MW-3S*	*MW-3A*	*MW-4*	*MW-5*	*MW-6*	*MW-7*	*MW-8*	*MW-9A*	*MW-10*	*MW-11*	*MW-12S*	*MW-13*	*MW-14S*	*SW-1*	*SW-2*	*SW-3*	*SW-4*
Nov-2007	100	700	200,000		62.4 J	96.9 J	357		207	115	233	136	214							NS	126	571	
May-2008				0.11	27.5 J	51.8 J	4 J		203	101	65 J	31 J	127							174	71.2 J	63 J	
Nov-2008					62.5 J	165	447		196	48.3 J	161	103	121							ND	268	75.1 J	
May-2009				0.04	26 J	6.9 J	460		266	117	56.1	31 J	113							181	61.6 J	78.7 J	
Jan-2010				0.04	77.4 J	15.4 J	492	84.2 J	165	83.8 J	137	29.1 J	169	55.4 J	113	23.4 J	98.5 J	82.8 J	100	89.2 J	71.3 J	76.1 J	70.9 J
May-2010				0.03	23.5 J	47.5 J	527	42.7 J	202	92.1 J	215	266	140	29.4 J	129	14.2 J	39.2 J	86.7 J	107	33.3 J	79.4 J	69.2 J	82.1 J
Nov-2010				0.03	56.6 J	149	254	100	141	129	155	34.3 J	164	32.9 J	63.2 J	31.4 J	177.0	106.0	177	49.8 J	59.1 J	75.5 J	94.2 J
May-2011				0.02	36 J	101	242	36 J	174	80.5 J	124	174	124	50.7 J	89.2 J	19.2 J	346.0	92.3 J	127	70.8 J	71.6 J	77.8 J	137
Nov-2011				0.02	58.7 J	34.3 J	484	70.7 J	183	150	157	67.4 J	184	43.6 J	43.6 J	17.3 J	467.0	67.8 J	223	48.7 J	69.4 J	73.3 J	81.2 J
May-2012				0.07	68.3 J	166	342	86.6 J	278	122	128	294	142	48.9 J	87.5 J	23.9 J	291.0	74.2 J	105	78.8 J	84.8 J	60.8 J	74.3 J
Nov-2012				0.07	37.1 J	152	425	120	151	117	53.4 J	100	133	36.5 J	132	19.3 J	504.0	76.6 J	74.7 J	38.0 J	49.1 J	74.1 J	70.6 J
May-2013				0.06	73.9 J	80.2 J	288	62.5 J	108	115	209	560	144	39.5 J	169	19.8 J	342.0	69.7 J	69.4 J	50.2 J	64.6 J	30.3 J	DRY
May-2014				0.06	20.3 J	33.0 J	343	28.6 J	80.2 J	67.9 J	110	291	157	29.3 J	58.9 J	18.3 J	368.0	52.4 J	90.9 J	94.3 J	72.9 J	37.9 J	DRY

Table 4
Historical Groundwater and Surface Water Quality Data
Construction and Demolition Debris (C&D) Landfill, Pitt County, North Carolina

Parameter : Beryllium CAS No. 7440-41-7

Sample	Compliance Limit (µg/L)			MDL	Analytical Results (µg/L)																		
Date	SWSL	2L Standard	2B Standard		*MW-1S*	*MW-2S*	*MW-3S*	*MW-3A*	*MW-4*	*MW-5*	*MW-6*	*MW-7*	*MW-8*	*MW-9A*	*MW-10*	*MW-11*	*MW-12S*	*MW-13*	*MW-14S*	*SW-1*	*SW-2*	*SW-3*	*SW-4*
Nov-2007	1	4	6.5		0.6 J	ND	ND		0.8 J	0.1 J	0.9 J	0.1 J	0.1 J							NS	ND	0.1 J	
May-2008				0.06	1.0	0.1 J	ND		0.4 J	0.1 J	0.1 J	0.1 J	0.1 J							0.7 J	0.1	0.1 J	
Nov-2008					0.7 J	ND	ND		0.2 J	0.1 J	0.1 J	0.1 J	ND							ND	0.4	0.1 J	
May-2009				0.06	2.6	ND	ND		0.9 J	0.5 J	0.1 J	0.1 J	ND							0.6 J	ND	0.1 J	
Jan-2010				0.06	0.2 J	0.9 J	ND	0.1 J	1.0	1.0	0.1 J	ND	0.1 J	0.2 J	0.2 J	0.3 J	ND	0.3 J	0.6 J	0.2 J	ND	0.2 J	0.1 J
May-2010				0.02	0.5 J	0.1 J	ND	ND	0.8 J	0.5 J	0.1 J	0.1 J	0.4 J	ND	0.1 J	0.1 J	0.1 J	0.3 J	0.1 J	0.1 J	0.1 J	0.1 J	0.1 J
Nov-2010				0.02	0.3 J	0.1 J	0.1 J	0.1 J	0.7 J	1.0	0.1 J	0.1 J	0.2 J	ND	0.1 J	0.2 J	0.1 J	0.3 J	0.2 J	0.1 J	0.1 J	0.1 J	0.1 J
May-2011				0.02	0.16 J	0.1 J	ND	ND	0.57 J	0.92 J	ND	ND	0.06 J	ND	0.29 J	0.31 J	ND	0.12 J	0.2 J	0.12 J	0.06 J	ND	0.57 J
Nov-2011				0.02	0.26 J	0.07 J	ND	ND	0.65 J	0.24 J	0.06 J	0.06 J	0.24 J	ND	0.16 J	0.10 J	ND	0.14 J	0.29 J	ND	0.06 J	0.09 J	0.10 J
May-2012				0.07	0.19 J	0.17 J	ND	ND	0.50 J	0.50 J	ND	ND	0.13 J	ND	0.09 J	0.08 J	ND	0.12 J	2.0	0.19 J	ND	ND	0.15 J
Nov-2012				0.07	0.18 J	0.09 J	ND	ND	0.47 J	0.13 J	0.09 J	ND	0.09 J	ND	0.08 J	0.29 J	ND	0.13 J	0.39 J	ND	ND	ND	0.12 J
May-2013				0.03	0.04 J	0.10 J	0.09 J	ND	ND	0.23 J	0.16 J	ND	ND	ND	0.08 J	1.0	0.03 J	0.12 J	0.48 J	0.12 J	0.07 J	0.11 J	DRY
May-2014				0.03	ND<0.03 U	0.06 J	0.03 J	ND<0.03 U	0.23 J	ND<0.03 U	0.05 J	0.04 J	0.12 J	ND<0.03 U	0.04 J	0.03 J	0.03 J	0.04 J	0.03 J	0.16 J	0.04 J	0.04 J	DRY

Parameter : Cadmium CAS No. 7440-43-9

Sample	Compliance Limit (µg/L)			MDL	Analytical Results (µg/L)																		
Date	SWSL	2L Standard	2B Standard		*MW-1S*	*MW-2S*	*MW-3S*	*MW-3A*	*MW-4*	*MW-5*	*MW-6*	*MW-7*	*MW-8*	*MW-9A*	*MW-10*	*MW-11*	*MW-12S*	*MW-13*	*MW-14S*	*SW-1*	*SW-2*	*SW-3*	*SW-4*
Nov-2007	1	2	2		0.7 J	0.3 J	0.7 J		0.5 J	0.6 J	0.6 J	0.4 J	0.3 J							NS	0.1 J	0.2 J	
May-2008				0.04	0.6 J	0.1 J	1		0.2 J	0.1 J	0.4 J	0.4 J	0.1 J							0.4 J	0.1 J	0.1 J	
Nov-2008					0.3 J	0.1 J	ND		0.3 J	ND	0.4 J	0.4 J	0.1 J							ND	0.3 J	ND	
May-2009				0.04	2.3	0.4 J	0.1 J		0.9 J	0.3 J	0.9 J	0.8 J	0.2 J							0.7 J	ND	ND	
Jan-2010				0.04	0.2 J	0.4 J	ND	0.2 J	0.3 J	0.6 J	0.3 J	0.2 J	0.2 J	0.1 J	ND	0.2 J	0.2 J	0.2 J	0.2 J	1.9	1.2	0.3 J	0.1 J
May-2010				0.02	0.2 J	0.8 J	0.3 J	0.1 J	1.2	0.3 J	2.2	2.0	0.2 J	0.2 J	1.0	0.1 J	0.2 J	0.4 J	0.1 J	0.2 J	0.1 J	0.1 J	0.1 J
Nov-2010				0.02	0.2 J	0.6 J	0.1 J	0.1 J	0.5 J	2.0	0.6 J	0.4 J	0.3 J	0.1 J	0.1 J	0.2 J	0.1 J	0.2 J	0.3 J	0.1 J	0.1 J	0.1 J	0.2 J
May-2011				0.02	0.11 J	0.29 J	0.07 J	0.1 J	0.35 J	0.64 J	0.43 J	0.4 J	0.06 J	0.05 J	0.8 J	0.17 J	0.1 J	0.16 J	0.12 J	0.22 J	0.11 J	0.29 J	0.14 J
Nov-2011				0.02	0.37 J	0.17 J	0.12 J	0.36 J	0.43 J	0.69 J	0.29 J	0.38 J	0.13 J	0.08 J	0.08 J	0.13 J	0.06 J	0.13 J	0.29 J	ND	ND	0.14 J	0.05 J
May-2012				0.03	ND	0.25 J	0.04 J	0.08 J	0.16 J	0.22 J	0.27 J	0.12 J	0.06 J	0.14 J	0.05 J	0.22 J	0.05 J	0.18 J	0.18 J	0.17 J	ND	ND	ND
Nov-2012				0.03	0.16 J	0.18 J	0.05 J	0.34 J	0.22 J	0.12 J	0.12 J	0.16 J	0.04 J	0.04 J	0.08 J	0.64 J	0.13 J	0.12 J	0.36 J	0.07 J	0.03 J	0.04 J	0.07 J
May-2013				0.05	0.15 J	0.29 J	0.11 J	0.07 J	0.09 J	0.20 J	0.31 J	0.14 J	0.13 J	0.64 J	0.06 J	0.97 J	0.68 J	0.21 J	0.18 J	0.08 J	0.05 J	0.08 J	DRY
May-2014				0.05	0.11 J	0.14 J	0.19 J	0.15 J	0.08 J	0.05 J	0.31 J	0.29 J	0.39 J	1.0	0.17 J	0.25 J	0.09 J	1.0	2.0	0.22 J	ND<0.05 U	ND<0.05 U	DRY

Parameter : Chromium CAS No. 7440-47-3

Sample	Compliance Limit (µg/L)			MDL	Analytical Results (µg/L)																		
Date	SWSL	2L Standard	2B Standard		*MW-1S*	*MW-2S*	*MW-3S*	*MW-3A*	*MW-4*	*MW-5*	*MW-6*	*MW-7*	*MW-8*	*MW-9A*	*MW-10*	*MW-11*	*MW-12S*	*MW-13*	*MW-14S*	*SW-1*	*SW-2*	*SW-3*	*SW-4*
Nov-2007	10	10	50		0.3 J	0.5 J	1.2 J		2.7 J	0.4 J	13	1.3 J	1.0 J							NS	1.5 J	ND	
May-2008				0.11	0.2 J	0.6 J	0.2 J		1.2 J	1.2 J	3.1 J	1.1 J	1.1 J							8.0 J	1.1 J	0.4 J	
Nov-2008					0.5 J	1.7 J	1.4 J		1.0 J	1.1 J	4.7 J	1.1 J	0.4 J							ND	5.0 J	0.3 J	
May-2009				0.10	ND	0.7 J	1.6 J		2.1 J	0.7 J	2.5 J	0.5 J	0.1 J							5.1 J	0.5 J	0.5 J	
Jan-2010				0.10	ND	ND	1 J	ND	2.8 J	2.7 J	0.8 J	ND	ND	2.7 J	0.9 J	ND	ND	0.7 J	2.6 J	2.1 J	0.7 J	0.4 J	0.3 J
May-2010				0.03	0.5 J	0.7 J	2 J	0.1 J	2.1 J	2.3 J	4.2 J	2.5 J	0.8 J	0.3 J	0.6 J	0.3 J	0.6 J	0.8 J	0.5 J	0.4 J	0.9 J	0.4 J	0.9 J
Nov-2010				0.03	0.5 J	0.6 J	1.7 J	0.3 J	3.1 J	11	2 J	0.4 J	0.8 J	ND	0.1 J	0.1 J	1.7 J	0.9 J	0.5 J	0.5 J	0.5 J	0.2 J	0.3 J
May-2011				0.04	0.44 J	0.62 J	0.76 J	0.3 J	3 J	6.2 J	2.4 J	1.2 J	0.84 J	0.17 J	0.83 J	0.23 J	2.6 J	0.51 J	0.48 J	1.8 J	0.58 J	0.99 J	3.1 J
Nov-2011				0.04	0.66 J	0.29 J	1.7 J	0.67 J	3.7 J	9.5 J	2.7 J	0.92 J	2.1 J	0.23 J	0.86 J	ND	14.0	0.57 J	1.3 J	0.74 J	1.2 J	0.63 J	0.46 J
May-2012				0.18	0.91 J	1.7 J	1.0 J	1.5 J	5.7 J	6.1 J	2.5 J	2.0 J	1.7 J	ND	0.50 J	ND	6.5 J	0.61 J	2.0 J	2.6 J	1.4 J	0.38 J	1.00 J
Nov-2012				0.18	0.45 J	1.9 J	1.5 J	2.3 J	3.6 J	5.2 J	1.8 J	1.5 J	3.0 J	ND	0.80 J	0.25 J	16.0	0.68 J	1.2 J	0.54 J	0.545 J	0.18 J	1.1 J
May-2013				0.04	0.50 J	0.57 J	0.50 J	1.0 J	2.2 J	4.8 J	3.2 J	7.4 J	2.2 J	0.13 J	1.1 J	0.78 J	19.0	0.59 J	5.8 J	2.4 J	1.6 J	1.6 J	DRY
May-2014				0.04	0.45 J	0.81 J	1.8 J	0.29 J	1.9 J	3.1 J	0.38 J	6.1 J	3.8 J	ND<0.04 U	0.83 J	0.20 J	9.0 J	0.46 J	2.1 J	1.9 J	0.95 J	0.51 J	DRY

Table 4
Historical Groundwater and Surface Water Quality Data
Construction and Demolition Debris (C&D) Landfill, Pitt County, North Carolina

Parameter : Cobalt CAS No. 7440-48-4

Sample	Compliance Limit (µg/L)			MDL	Analytical Results (µg/L)																		
Date	SWSL	2L Standard	2B Standard		*MW-1S*	*MW-2S*	*MW-3S*	*MW-3A*	*MW-4*	*MW-5*	*MW-6*	*MW-7*	*MW-8*	*MW-9A*	*MW-10*	*MW-11*	*MW-12S*	*MW-13*	*MW-14S*	*SW-1*	*SW-2*	*SW-3*	*SW-4*
Nov-2007	10	1	4		1.5 J	9.3 J	9.4 J		1.0 J	2.3 J	6.3 J	17	ND							NS	0.8 J	0.7 J	
May-2008				0.03	0.8 J	1.3 J	0.1 J		1.0 J	1.7 J	1.7 J	2.6 J	19							1.2 J	0.8 J	1.0 J	
Nov-2008					0.9 J	10	17		0.4 J	0.5 J	4.4 J	2.8 J	12							ND	1.9 J	5.1 J	
May-2009				0.02	1.2 J	5.8 J	12.6		1.3 J	1.2 J	1.1 J	2.3 J	8.4 J							1.0 J	0.4 J	1.3 J	
Jan-2010				0.02	2.5 J	0.4 J	5.7 J	15	0.9 J	1.6 J	0.6 J	1.1 J	10	0.7 J	0.3 J	0.5 J	0.2 J	1.3 J	0.4 J	0.6 J	0.3 J	1.2 J	0.2 J
May-2010				0.10	0.7 J	1.1 J	18	3.8 J	0.9 J	2.8 J	5.4 J	9.0 J	21	0.2 J	0.2 J	0.3 J	0.2 J	0.9 J	0.2 J	0.3 J	0.6 J	0.6 J	0.5 J
Nov-2010				0.10	0.8 J	3.3 J	37	17	1.1 J	7.8 J	0.7 J	0.8 J	24	0.2 J	0.3 J	0.3 J	0.8 J	1.0 J	0.3 J	0.4 J	0.5 J	1.0 J	0.7 J
May-2011				0.03	0.41 J	3.7 J	14	7.7 J	0.58 J	1.5 J	1.4 J	4.2 J	31	0.09 J	2.2 J	0.26 J	1.5 J	1.2 J	0.18 J	0.84 J	1.5 J	0.42 J	1.6 J
Nov-2011				0.03	0.48 J	1.1 J	6.8 J	15	0.76 J	1.6 J	1.1 J	1.2 J	17	0.11 J	0.26 J	0.20 J	0.84 J	0.60 J	0.42 J	0.50 J	0.75 J	1.3 J	0.86 J
May-2012				0.02	0.38 J	7.0 J	2.6 J	25	0.63 J	1.7 J	1.3 J	3.6 J	31	0.06 J	0.45 J	0.22 J	0.72 J	1.5 J	3.4 J	0.89 J	0.79 J	0.76 J	0.72 J
Nov-2012				0.02	0.31 J	8.6 J	15	28	0.38 J	1.1 J	0.55 J	1.3 J	27	0.08 J	0.86 J	0.53 J	1.1 J	0.46 J	1.6 J	0.42 J	0.31 J	0.89 J	1.7 J
May-2013				0.02	0.20 J	2.0 J	2.2 J	18	0.35 J	1.6 J	3.0 J	9.2 J	24	0.04 J	0.33 J	0.73 J	0.88 J	0.47 J	2.4 J	0.73 J	0.52 J	0.48 J	DRY
May-2014				0.02	0.13 J	1.0 J	5.9 J	0.28 J	0.30 J	0.34 J	0.22 J	5.2 J	22	0.05 J	0.44 J	0.19 J	0.82 J	0.32 J	0.24 J	0.38 J	0.88 J	0.31 J	DRY

Parameter : Copper CAS No. 7440-50-8

Sample	Compliance Limit (µg/L)			MDL	Analytical Results (µg/L)																		
Date	SWSL	2L Standard	2B Standard		*MW-1S*	*MW-2S*	*MW-3S*	*MW-3A*	*MW-4*	*MW-5*	*MW-6*	*MW-7*	*MW-8*	*MW-9A*	*MW-10*	*MW-11*	*MW-12S*	*MW-13*	*MW-14S*	*SW-1*	*SW-2*	*SW-3*	*SW-4*
Nov-2007	10	1,000	7		ND	NA	1.8 J		2.3 J	1.6 J	6.7 J	2.7 J	1.6 J							NS	1.9 J	0.6 J	
May-2008				0.05	1.5 J	1 J	0.8 J		0.7 J	0.9 J	2.1 J	2.0 J	0.9 J							5.5 J	0.8 J	0.6 J	
Nov-2008					1.3 J	1.2 J	1.3 J		0.9 J	3.3 J	2.8 J	3.0 J	0.8 J							ND	5.6 J	1.1 J	
May-2009				0.04	0.7 J	1.9 J	1.4 J		1.8 J	2.6 J	2.3 J	1.6 J	0.6 J							4.9 J	1.5 J	0.4 J	
Jan-2010				0.04	0.9 J	1.2 J	1.9 J	1.3 J	1.8 J	1.6 J	1.1 J	2.4 J	0.7 J	1.3 J	1.0 J	0.8 J	0.7 J	1.2 J	2.4 J	2.7 J	0.8 J	0.8 J	0.7 J
May-2010				0.03	0.7 J	0.9 J	1.1 J	4.0 J	1.4 J	1.1 J	2.4 J	2.9 J	1.1 J	0.1 J	0.6 J	0.2 J	0.3 J	0.5 J	0.1 J	0.4 J	0.4 J	0.3 J	0.5 J
Nov-2010				0.03	0.5 J	1.1 J	1.1 J	0.5 J	1.3 J	3.9 J	1.5 J	0.8 J	0.8 J	ND	ND	ND	1.1 J	0.8 J	0.1 J	0.3 J	0.1 J	0.1 J	0.3 J
May-2011				0.02	1.1 J	1.5 J	1.3 J	1.1 J	1.9 J	4.4 J	1.6 J	1.5 J	1.3 J	0.29 J	1.7 J	0.67 J	1.5 J	2.1 J	0.81 J	1.7 J	0.94 J	1.1 J	1.5 J
Nov-2011				0.02	0.89 J	0.49 J	1.5 J	0.88 J	1.1 J	7.1 J	1.7 J	0.93 J	0.69 J	0.05 J	0.18 J	0.09 J	0.53 J	0.82 J	0.59 J	0.17 J	0.46 J	0.30 J	ND
May-2012				0.06	0.87 J	1.3 J	0.91 J	0.85 J	1.8 J	3.4 J	2.2 J	1.9 J	1.1 J	0.11 J	0.37 J	0.50 J	0.87 J	0.77 J	1.9 J	2.3 J	1.2 J	0.34 J	0.42 J
Nov-2012				0.06	1.0 J	1.3 J	1.6 J	1.4 J	0.88 J	4.2 J	1.2 J	1.9 J	1.4 J	0.50 J	0.64 J	0.70 J	0.91 J	1.0 J	0.57 J	2.1 J	0.36 J	0.58 J	1.2 J
May-2013				0.06	0.96 J	1.6 J	0.77 J	1.0 J	0.61 J	4.8 J	1.8 J	1.9 J	1.3 J	0.35 J	0.68 J	1.4 J	1.5 J	0.63 J	1.8 J	1.3 J	1.4 J	1.1 J	DRY
May-2014				0.06	1.0 J	0.80 J	1.1 J	0.54 J	0.31 J	4.0 J	0.52 J	1.7 J	2.0 J	0.67 J	0.38 J	0.37 J	0.63 J	1.0 J	1.8 J	2.4 J	0.46 J	0.40 J	DRY

Parameter : Lead CAS No. 7439-92-1

Sample	Compliance Limit (µg/L)			MDL	Analytical Results (µg/L)																		
Date	SWSL	2L Standard	2B Standard		*MW-1S*	*MW-2S*	*MW-3S*	*MW-3A*	*MW-4*	*MW-5*	*MW-6*	*MW-7*	*MW-8*	*MW-9A*	*MW-10*	*MW-11*	*MW-12S*	*MW-13*	*MW-14S*	*SW-1*	*SW-2*	*SW-3*	*SW-4*
Nov-2007	10	15	25		1.3 J	ND	0.1 J		7.2 J	0.4 J	5.9 J	0.3 J	0.3 J							NS	1.6 J	0.2 J	
May-2008				0.32	1.6 J	0.5 J	ND		4.8 J	0.4 J	0.5 J	0.7 J	0.2 J							25	0.7 J	0.3 J	
Nov-2008					2.8 J	0.4 J	0.1 J		3.4 J	0.6 J	0.4 J	0.3 J	0.2 J							ND	14 J	0.9 J	
May-2009				0.04	3.7 J	0.5 J	ND		11.0	0.2 J	0.3 J	0.1 J	0.1 J							23	0.5 J	0.2 J	
Jan-2010				0.04	0.8 J	3.9 J	0.1 J	0.2 J	14.0	1.5 J	0.5 J	0.1 J	0.4 J	1.8 J	1.4 J	0.2 J	0.4 J	3.2 J	21	8.0 J	0.3 J	0.6 J	0.3 J
May-2010				0.01	3.0 J	1.1 J	0.1 J	ND	6.3 J	0.7 J	0.2 J	0.1 J	0.4 J	0.1 J	2.0 J	0.2 J	1.1 J	1.8 J	1.5 J	0.9 J	0.5 J	0.6 J	1.6 J
Nov-2010				0.01	2.0 J	0.5 J	0.1 J	0.2 J	6.4 J	3.9 J	0.3 J	0.2 J	0.4 J	ND	1.1 J	0.2 J	1.9 J	3.1 J	2.2 J	1 J	0.1 J	0.5 J	0.2 J
May-2011				0.02	0.6 J	0.92 J	0.16 J	0.15 J	4.8 J	3.0 J	0.18 J	0.12 J	0.13 J	0.16 J	1.2 J	0.1 J	0.83 J	0.8 J	4.4 J	4.3 J	0.5 J	0.28 J	5.7 J
Nov-2011				0.02	1.7 J	0.68 J	0.42 J	0.17 J	7.3 J	2.1 J	0.24 J	0.29 J	1.2 J	0.16 J	1.9 J	0.12 J	0.64 J	0.93 J	3.2 J	0.95 J	0.79 J	1.1 J	0.29 J
May-2012				0.08	1.1 J	1.3 J	0.22 J	0.25 J	7.6 J	3.5 J	0.39 J	0.33 J	0.20 J	ND	0.74 J	0.09 J	0.90 J	1.0 J	11.0	7.0 J	2.1 J	0.46 J	1.3 J
Nov-2012				0.08	1.1 J	0.64 J	0.31 J	0.35 J	3.1 J	1.4 J	0.55 J	0.20 J	0.19 J	0.12 J	0.43 J	0.49 J	0.65 J	1.5 J	7.9 J	0.45 J	0.43 J	0.11 J	1.3 J
May-2013				0.02	0.14 J	0.55 J	0.03 J	0.04 J	0.29 J	1.5 J	0.05 J	0.08 J	0.06 J	0.12 J	0.23 J	0.53 J	0.07 J	0.93 J	0.75 J	1.6 J	1.2 J	3.0 J	DRY
May-2014				0.02	0.11 J	0.19 J	0.16 J	0.06 J	0.74 J	0.51 J	0.04 J	0.14 J	0.19 J	0.07 J	0.10 J	0.04 J	ND<0.02 U	0.40 J	0.42 J	5.2 J	0.39 J	1.2 J	DRY

Table 4
Historical Groundwater and Surface Water Quality Data
Construction and Demolition Debris (C&D) Landfill, Pitt County, North Carolina

Parameter : Nickel CAS No. 7440-02-0

Sample	Compliance Limit (µg/L)			MDL	Analytical Results (µg/L)																	
Date	SWSL	2L Standard	2B Standard		*MW-1S*	*MW-2S*	*MW-3S*	*MW-3A*	*MW-4*	*MW-5*	*MW-6*	*MW-7*	*MW-8*	*MW-9A*	*MW-10*	*MW-11*	*MW-12S*	*MW-13*	*MW-14S*	*SW-1*	*SW-2*	*SW-3*	*SW-4*
Nov-2007	50	100	88		3.3 J	3.6 J	5.9 J		2.7 J	9.1 J	9.1 J	7.5 J	5.3 J							NS	2.9 J	0.7 J	
May-2008				0.06	5.2 J	2.1 J	0.5 J		2.3 J	4.3 J	3.2 J	2.0 J	7.8 J							3.5 J	1.4 J	0.8 J	
Nov-2008					4 J	6 J	7.1 J		1.7 J	3.4 J	6.1 J	4.6 J	4.7 J							ND	4.2 J	1.3 J	
May-2009				0.04	2.1 J	1.8 J	5.4 J		1.2 J	2.5 J	1.0 J	0.9 J	3.3 J							1.9 J	0.2 J	0.4 J	
Jan-2010				0.04	1.7 J	3.1 J	5.8 J	2.6 J	2.1 J	4.8 J	1.1 J	0.6 J	5.1 J	2.5 J	0.8 J	2.2 J	0.9 J	1.6 J	1.0 J	1.3 J	0.9 J	0.8 J	0.6 J
May-2010				0.05	3.2 J	1.7 J	10.8 J	1.5 J	2.0 J	7.1 J	7.5 J	10.4 J	9.2 J	2.0 J	1.5 J	1.8 J	0.9 J	1.7 J	1.1 J	0.4 J	1.2 J	0.8 J	0.8 J
Nov-2010				0.05	3.9 J	6.2 J	12.1 J	6.4 J	2.1 J	16.8 J	5.7 J	1.7 J	9.1 J	1.8 J	4.1 J	1.6 J	4.1 J	2.2 J	1.9 J	0.7 J	1.6 J	0.8 J	0.8 J
May-2011				0.04	1.2 J	3.1 J	3.3 J	1.6 J	1.4 J	5.5 J	2 J	2.3 J	5.2 J	0.77 J	1.1 J	1.2 J	6.8 J	2.1 J	0.86 J	1.3 J	1.8 J	1.1 J	1.5 J
Nov-2011				0.04	1.4 J	1.2 J	4.3 J	3.6 J	1.8 J	6.9 J	2.7 J	1.5 J	5.4 J	0.78 J	1.3 J	1.2 J	7.6 J	1.3 J	2 J	0.88 J	0.99 J	0.76 J	0.55 J
May-2012				0.06	2.6 J	4.4 J	3.6 J	4.8 J	1.7 J	4.7 J	2.9 J	4.3 J	7.2 J	0.23 J	2.3 J	3.4 J	5.6 J	3.4 J	5.2 J	3.8 J	2.9 J	5.0 J	6.1 J
Nov-2012				0.06	2.6 J	6.6 J	5.8 J	8.8 J	1.8 J	5.4 J	1.4 J	2.5 J	8.6 J	1.3 J	1.6 J	2.3 J	7.3 J	1.7 J	1.9 J	0.46 J	0.46 J	0.78 J	1.1 J
May-2013				0.45	1.8 J	4.6 J	3.5 J	5.0 J	1.8 J	5.6 J	4.3 J	5.5 J	9.3 J	0.98 J	1.5 J	2.4 J	4.8 J	0.84 J	4.4 J	0.97 J	0.65 J	0.47 J	DRY
May-2014				0.45	1.3 J	1.6 J	3.1 J	1.5 J	0.87 J	2.2 J	0.71 J	3.5 J	7.8 J	1.3 J	1.0 J	2.7 J	5.9 J	1.2 J	1.6 J	0.98 J	0.89 J	ND<0.45 U	DRY

Parameter : Selenium CAS No. 7782-49-2

Sample	Compliance Limit (µg/L)			MDL	Analytical Results (µg/L)																	
Date	SWSL	2L Standard	2B Standard		*MW-1S*	*MW-2S*	*MW-3S*	*MW-3A*	*MW-4*	*MW-5*	*MW-6*	*MW-7*	*MW-8*	*MW-9A*	*MW-10*	*MW-11*	*MW-12S*	*MW-13*	*MW-14S*	*SW-1*	*SW-2*	*SW-3*	*SW-4*
Nov-2007	10	20	5		1.9 J	2.3 J	5.6 J		ND	2.3 J	7.9 J	6.0 J	4.7 J							NS	2.2 J	ND	
May-2008				0.51	1.9 J	1.2 J	0.3 J		0.9 J	2.5 J	1.7 J	1.7 J	5.9 J							1.3 J	0.9 J	0.2 J	
Nov-2008					1.6 J	4.8 J	9.8 J		ND	1.2 J	5.3 J	5.9 J	3.5 J							ND	3.0 J	0.3 J	
May-2009				0.12	5.2 J	2.5 J	8.2 J		0.5 J	1.5 J	0.5 J	0.8 J	2.2 J							0.8 J	ND	ND	
Jan-2010				0.12	5.2 J	1.9 J	ND	2.7 J	0.2 J	5.0 J	2.0 J	0.2 J	3.0 J	ND	0.2 J	ND	0.2 J	0.5 J	0.4 J	ND	ND	ND	ND
May-2010				0.32	1.0 J	3.5 J	11	1.0 J	1.1 J	7.3 J	7.5 J	9.8 J	4.4 J	ND	0.6 J	ND	ND	ND	ND	ND	0.7 J	ND	ND
Nov-2010				0.32	1.8 J	ND	ND	8.8 J	0.7 J	ND	7.2 J	1.1 J	4.7 J	ND	ND	ND	1.3 J	0.8 J	ND	ND	0.6 J	ND	ND
May-2011				0.20	0.46 J	ND	3.5 J	1.1 J	0.73 J	4.9 J	1.3 J	3 J	3.0 J	ND	1.1 J	ND	1.7 J	0.38 J	0.44 J	0.3 J	0.22 J	0.64 J	0.33 J
Nov-2011				0.20	1.2 J	1.3 J	6.6 J	2.3 J	0.61 J	5.9 J	1.6 J	1.1 J	1.9 J	ND	0.62 J	ND	2.5 J	0.78 J	0.33 J	0.20 J	0.29 J	0.21 J	ND
May-2012				0.17	1.7 J	13	3.8 J	4.3 J	1.6 J	5.0 J	1.5 J	4.3 J	4.5 J	ND	0.93 J	0.72 J	3.7 J	0.64 J	1.4 J	0.41 J	0.57 J	ND	ND
Nov-2012				0.17	1.2 J	15	0.3 J	11.0	1.2 J	4.3 J	0.64 J	1.9 J	6.9 J	0.21 J	2.1 J	1.1 J	4.1 J	1.0 J	0.94 J	0.17 J	0.30 J	0.26 J	ND
May-2013				0.06	1.6 J	14	5.4 J	4.9 J	1.1 J	4.4 J	2.7 J	9.9 J	6.8 J	0.08 J	1.7 J	1.1 J	5.7 J	0.83 J	5.5 J	0.39 J	0.38 J	0 19 J	DRY
May-2014				0.06	ND<0.06 U	0.38 J	2.9 J	ND<0.06 U	ND<0.06 U	ND<0.06 U	ND<0.06 U	3.4 J	4.9 J	ND<0.06 U	ND<0.06 U	ND<0.06 U	1.3 J	ND<0.06 U	ND<0.06 U	ND<0.06 U	ND<0.06 U	ND<0.06 U	DRY

Parameter : Silver CAS No. 7440-22-4

Sample	Compliance Limit (µg/L)			MDL	Analytical Results (µg/L)																	
Date	SWSL	2L Standard	2B Standard		*MW-1S*	*MW-2S*	*MW-3S*	*MW-3A*	*MW-4*	*MW-5*	*MW-6*	*MW-7*	*MW-8*	*MW-9A*	*MW-10*	*MW-11*	*MW-12S*	*MW-13*	*MW-14S*	*SW-1*	*SW-2*	*SW-3*	*SW-4*
Nov-2007	10	20	0.06		ND	ND	ND		ND	ND	ND	ND	ND							NS	ND	ND	
May-2008				0.04	0.2 J	0.1 J	ND		0.1 J	0.1 J	0.1 J	ND	ND							0.1 J	ND	0.1 J	
Nov-2008					ND	ND	0.1 J		ND	0.1 J	ND	0.1 J	ND							0.1 J	0.1 J	ND	
May-2009				0.04	ND	ND	ND		0.1 J	ND	ND	ND	ND							0.1 J	0.1 J	ND	
Jan-2010				0.04	0.1 J	0.2 J	0.2 J	0.1 J	0.1 J	0.1 J	0.1 J	0.3 J	0.3 J	0.1 J	0.1 J	ND	0.1 J	0.1 J	0.1 J	0.2 J	0.1 J	0.2 J	0.1 J
May-2010				0.03	0.1 J	ND	0.1 J	ND	0.1 J	0.1 J	ND	ND	0.1 J	ND	ND	0.1 J	ND	ND	ND	ND	0.1 J	ND	ND
Nov-2010				0.03	ND	ND	ND	ND	ND	0.1 J	0.1 J	0.1 J	0.1 J	ND	ND	ND	0.1 J	ND	ND	ND	ND	ND	ND
May-2011				0.02	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.04 J	ND
Nov-2011				0.02	ND	ND	0.04 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
May-2012				0.10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Nov-2012				0.10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
May-2013				0.03	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.03 J	ND	ND	ND	ND	ND	ND	DRY
May-2014				0.03	ND<0.03 U	ND<0.03 U	ND<0.03 U	ND<0.03 U	ND<0.03 U	ND<0.03 U	ND<0.03 U	ND<0.03 U	ND<0.03 U	ND<0.03 U	ND<0.03 U	ND<0.03 U	ND<0.03 U	ND<0.03 U	ND<0.03 U	ND<0.03 U	ND<0.03 U	ND<0.03 U	ND<0.03 U	DRY

Table 4
Historical Groundwater and Surface Water Quality Data
Construction and Demolition Debris (C&D) Landfill, Pitt County, North Carolina

Parameter : Thallium CAS No. 7440-28-0

Sample	Compliance Limit (µg/L)			MDL	Analytical Results (µg/L)																		
Date	SWSL	2L Standard	2B Standard		*MW-1S*	*MW-2S*	*MW-3S*	*MW-3A*	*MW-4*	*MW-5*	*MW-6*	*MW-7*	*MW-8*	*MW-9A*	*MW-10*	*MW-11*	*MW-12S*	*MW-13*	*MW-14S*	*SW-1*	*SW-2*	*SW-3*	*SW-4*
Nov-2007	5.5	0.2	0.47		ND	**0.2 J**	ND		ND	ND	**0.2 J**	ND	ND							NS	ND	ND	
May-2008				0.63	**0.1 J**	**0.1 J**	ND		**0.1 J**	**0.1 J**	**0.2 J**	**0.1 J**	ND							**0.2 J**	ND	ND	
Nov-2008					ND	**0.1 J**	ND		ND	ND	**0.1 J**	**0.1 J**	ND							ND	**0.1 J**	ND	
May-2009				0.03	ND	ND	ND		ND	ND	ND	ND	ND							ND	ND	ND	
Jan-2010				0.03	**0.1 J**	ND	ND	**0.1 J**	**0.1 J**	**0.1 J**	ND	ND	ND	ND	ND	ND	ND	ND	ND	**0.1 J**	**0.1 J**	**0.1 J**	ND
May-2010				0.05	ND	ND	ND	ND	**0.1 J**	ND	ND	**0.5 J**	**0.1 J**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Nov-2010				0.05	ND	**0.1 J**	ND	ND	**0.1 J**	**0.5 J**	**0.1 J**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
May-2011				0.02	ND	**0.1 J**	ND	ND	**0.03 J**	**0.07 J**	**0.9 J**	**0.24 J**	ND	ND	**0.05 J**	ND	**0.08 J**	**0.04 J**	**0.04 J**	**0.05 J**	ND	ND	**0.09 J**
Nov-2011				0.02	ND	**0.07 J**	**0.24 J**	**0.14 J**	**0.05 J**	**0.16 J**	**0.08 J**	**0.08 J**	ND	**0.08 J**	**0.05 J**	**0.12 J**	**0.04 J**	**0.07 J**	**0.05 J**	ND	ND	**0.12 J**	**0.09 J**
May-2012				0.07	**0.35 J**	**0.22 J**	ND	**0.10 J**	ND	ND	**0.10 J**	**0.26 J**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Nov-2012				0.07	ND	**0.10 J**	ND	**0.13 J**	ND	ND	ND	**0.29 J**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
May-2013				0.02	**0.04 J**	**0.07 J**	ND	**0.08 J**	ND	**0.07 J**	**0.10 J**	**0.20 J**	**0.06 J**	ND	ND	**0.14 J**	ND	ND	**0.30 J**	**0.05 J**	ND	**0.06 J**	DRY
May-2014				0.02	ND<0.02 U	**0.07 J**	ND<0.02 U	**0.06 J**	ND<0.02 U	**0.02 J**	ND<0.02 U	**0.26 J**	**0.03 J**	ND<0.02 U	ND<0.02 U	ND<0.02 U	ND<0.02 U	ND<0.02 U	**0.13 J**	**0.02 J**	ND<0.02 U	ND<0.02 U	DRY

Parameter : Tin CAS No. 7440-31-5

Sample	Compliance Limit (µg/L)			MDL	Analytical Results (µg/L)																		
Date	SWSL	2L Standard	2B Standard		*MW-1S*	*MW-2S*	*MW-3S*	*MW-3A*	*MW-4*	*MW-5*	*MW-6*	*MW-7*	*MW-8*	*MW-9A*	*MW-10*	*MW-11*	*MW-12S*	*MW-13*	*MW-14S*	*SW-1*	*SW-2*	*SW-3*	*SW-4*
Jan-2010	100	2,000	800	0.08	NA	NA	ND	ND	NA	NA	NA	NA	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
May-2010				0.11	NA	NA	**1.5 J**	**3.9 J**	NA	NA	NA	NA	**0.4 J**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nov-2010				0.11	NA	NA	**0.5 J**	**0.6 J**	NA	NA	NA	NA	**0.5 J**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
May-2011				0.16	NA	NA	**0.23 J**	**0.32 J**	NA	NA	NA	NA	**0.95 J**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nov-2011				0.16	NA	NA	**0.26 J**	**0.47 J**	NA	NA	NA	NA	**0.24 J**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
May-2012				0.10	NA	NA	**0.15 J**	**0.24 J**	NA	NA	NA	NA	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nov-2012				0.10	ND	NA	**0.13 J**	**0.28 J**	NA	NA	NA	NA	**0.92 J**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
May-2013				0.06	ND	NA	**0.24 J**	**0.20 J**	NA	NA	NA	NA	**0.08 J**	NA	NA	NA	NA	NA	NA	NA	NA	NA	DRY
May-2014				0.06	ND<0.06 U	NA	ND<0.06 U	**0.06 J**	NA	NA	NA	NA	ND<0.06 U	NA	NA	NA	ND<0.06 U	NA	NA	NA	NA	NA	DRY

Parameter : Vanadium CAS No. 7440-62-2

Sample	Compliance Limit (µg/L)			MDL	Analytical Results (µg/L)																		
Date	SWSL	2L Standard	2B Standard		*MW-1S*	*MW-2S*	*MW-3S*	*MW-3A*	*MW-4*	*MW-5*	*MW-6*	*MW-7*	*MW-8*	*MW-9A*	*MW-10*	*MW-11*	*MW-12S*	*MW-13*	*MW-14S*	*SW-1*	*SW-2*	*SW-3*	*SW-4*
Nov-2007	25	0.3	NE		**1.5 J**	**0.9 J**	**1.7 J**		**6.9 J**	**1.6 J**	**17 J**	**2.5 J**	**1.4 J**							NS	**2.0 J**	**0.7 J**	
May-2008				0.07	**0.8 J**	ND	ND		**3.4 J**	**1.2 J**	**4.6 J**	**3.1 J**	**1.0 J**							**40**	**1.4 J**	**0.8 J**	
Nov-2008					**2.6 J**	**1.3 J**	**1.5 J**		**3.1 J**	**1.8 J**	**4.2 J**	**1.3 J**	**0.8 J**							ND	**9.2 J**	**1.2 J**	
May-2009				0.28	**3.5 J**	**1.8 J**	**2.7 J**		**10.0 J**	**1.6 J**	**7.5 J**	**1.8 J**	**1.3 J**							**30**	**2.3 J**	**1.9 J**	
Jan-2010				0.28	**1 J**	**3.5 J**	**2.3 J**	**2.1 J**	**11.4 J**	**5.1 J**	**11.6 J**	**0.8 J**	**0.9 J**	**4.9 J**	**4.5 J**	**1.3 J**	**2.4 J**	**4.9 J**	**35**	**18.9 J**	**0.8 J**	**0.9 J**	**0.6 J**
May-2010				0.03	**3.8 J**	**2.1 J**	**2 J**	**0.8 J**	**8.3 J**	**2.3 J**	**5.8 J**	**1.3 J**	**1.6 J**	**0.6 J**	**3.2 J**	**1.0 J**	**3.7 J**	**2.4 J**	**3.3 J**	**2.0 J**	**1.5 J**	**1.4 J**	**3.0 J**
Nov-2010				0.03	**3.3 J**	**0.6 J**	**2.6 J**	**1.6 J**	**9.4 J**	**3.2 J**	**4.4 J**	**1.1 J**	**1.9 J**	**0.9 J**	**1.9 J**	**0.6 J**	**4.4 J**	**3.6 J**	**8.5 J**	**3.1 J**	**1.1 J**	**0.9 J**	**0.9 J**
May-2011				0.14	**1.2 J**	**0.94 J**	**1.4 J**	**0.69 J**	**7.5 J**	**4.3 J**	**3.9 J**	**0.75 J**	**0.76 J**	**1.2 J**	**3.1 J**	**0.54 J**	**2.9 J**	**1.0 J**	**11.8 J**	**6.8 J**	**0.86 J**	**0.93 J**	**7.2 J**
Nov-2011				0.14	**2.5 J**	**0.75 J**	**3 J**	**0.88 J**	**8.5 J**	**2.4 J**	**3.3 J**	**1.2 J**	**4.1 J**	**1.3 J**	**9.2 J**	**0.55 J**	**4.8 J**	**1.4 J**	**8.4 J**	**2.2 J**	**3.4 J**	**1.1 J**	**0.88 J**
May-2012				0.10	**1.7 J**	**2.0 J**	**1.4 J**	**2.0 J**	**7.2 J**	**5.6 J**	**3.0 J**	**1.3 J**	**1.3 J**	**0.96 J**	**5.9 J**	**0.78 J**	**6.9 J**	**2.2 J**	**31.0**	**9.5 J**	**2.5 J**	**1.0 J**	**3.0 J**
Nov-2012				0.10	**1.2 J**	**1.7 J**	**1.8 J**	**1.6 J**	**5.8 J**	**2.0 J**	**4.7 J**	**0.52 J**	**1.2 J**	**0.25 J**	**4.1 J**	**0.44 J**	**6.4 J**	**3.0 J**	**22.7 J**	**1.5 J**	**0.83 J**	**0.67 J**	**2.3 J**
May-2013				0.07	**1.0 J**	**0.62 J**	**1.9 J**	**0.39 J**	**3.3 J**	**3.5 J**	**1.5 J**	**1.3 J**	**1.3 J**	**0.07 J**	**4.6 J**	**0.35 J**	**7.8 J**	**2.0 J**	**8.2 J**	**3.1 J**	**1.5 J**	**3.4 J**	DRY
May-2014				0.07	**0.16 J**	ND<0.07 U	**1.3 J**	ND<0.07 U	**3.2 J**	**1.1 J**	**0.34 J**	**1.3 J**	**1.0 J**	ND<0.07 U	**2.9 J**	ND<0.07 U	**4.1 J**	**1.4 J**	**1.4 J**	**6.0 J**	**0.48 J**	**1.2 J**	DRY

Table 4
Historical Groundwater and Surface Water Quality Data
Construction and Demolition Debris (C&D) Landfill, Pitt County, North Carolina

Parameter : Zinc CAS No. 7440-66-6

Sample	Compliance Limit (µg/L)			MDL	Analytical Results (µg/L)																		
Date	SWSL	2L Standard	2B Standard		*MW-1S*	*MW-2S*	*MW-3S*	*MW-3A*	*MW-4*	*MW-5*	*MW-6*	*MW-7*	*MW-8*	*MW-9A*	*MW-10*	*MW-11*	*MW-12S*	*MW-13*	*MW-14S*	*SW-1*	*SW-2*	*SW-3*	*SW-4*
Nov-2007	10	1,000	50		**7.9 J**	**3.3 J**	**8 J**		**16**	**5.9 J**	**20**	**3.4 J**	**5.1 J**							NS	**24**	**71**	
May-2008				0.04	**4.5 J**	**1.9 J**	**1.6 J**		**7.8 J**	**4.1 J**	**3.0 J**	**3.4 J**	**2.7 J**							**43**	**7.8 J**	**19**	
Nov-2008					**5.1 J**	**2.4 J**	**3.3 J**		**5.3 J**	**3.9 J**	**3.6 J**	**3.0 J**	**1.7 J**							ND	**96**	**36**	
May-2009				0.14	**9.4 J**	**5 J**	**5.9 J**		**12**	**3.3 J**	**2.5 J**	**2.8 J**	**3.2 J**							**21**	**4.8 J**	**18**	
Jan-2010				0.14	**2.2 J**	**3 J**	**1.3 J**	**3.1 J**	**16**	**4.8 J**	**3.9 J**	**1.5 J**	**3.1 J**	**7.5 J**	**2.6 J**	**2.9 J**	**2.8 J**	**8.5 J**	**4.7 J**	**15**	**8.1 J**	**14**	**8.8 J**
May-2010				0.08	**2.2 J**	**5.8 J**	**2.3 J**	**2.9 J**	**8.5 J**	**4.3 J**	**3.3 J**	**3.8 J**	**6.3 J**	**1.5 J**	**4.0 J**	**2.0 J**	**1.1 J**	**7.5 J**	**1.2 J**	**2.3 J**	**5.3 J**	**11**	**3.0 J**
Nov-2010				0.08	**5.6 J**	**3.5 J**	**3.4 J**	**4.1 J**	**8.1 J**	**14**	**4.5 J**	**4.3 J**	**5.4 J**	**2.6 J**	**2.1 J**	**3.2 J**	**3.1 J**	**8.5 J**	**2.6 J**	**5.6 J**	**6.8 J**	**17**	**3.9 J**
May-2011				0.24	**2.6 J**	**3.1 J**	**3.6 J**	**3.2 J**	**6.1 J**	**7.4 J**	**1.8 J**	**2.4 J**	**5.4 J**	**3.2 J**	**3.5 J**	**2.1 J**	**3.5 J**	**32.0**	**2.6 J**	**9.6 J**	**12**	**5.8 J**	**9.4 J**
Nov-2011				0.24	**3.2 J**	**2.0 J**	**2.7 J**	**4.7 J**	**9.4 J**	**7.7 J**	**3.3 J**	**1.8 J**	**5.3 J**	**2.3 J**	**1.7 J**	**1.9 J**	**1.8 J**	**3.2 J**	**4.7 J**	**1.9 J**	**8.2 J**	**16**	**2.4 J**
May-2012				0.48	**1.4 J**	**2.0 J**	**0.72 J**	**5.7 J**	**4.7 J**	**6.6 J**	**0.91 J**	**0.66 J**	**3.2 J**	**0.66 J**	ND	**1.7 J**	ND	**8.1 J**	**6.2 J**	**6.4 J**	**18**	**6.0 J**	**0.70 J**
Nov-2012				0.48	**4.7 J**	**4.6 J**	**7.6 J**	**8.4 J**	**6.7 J**	**5.8 J**	**4.9 J**	**4.6 J**	**5.5 J**	**4.4 J**	**3.1 J**	**6.4 J**	**4.1 J**	**3.3 J**	**4.6 J**	**4.8 J**	**6.5 J**	**8.2 J**	**11.0**
May-2013				0.47	**0.76 J**	**2.4 J**	**1.2 J**	**3.8 J**	**1.6 J**	**6.1 J**	**0.91 J**	**1.0 J**	**2.9 J**	**3.7 J**	**2.1 J**	**3.8 J**	**1.9 J**	**3.5 J**	**5.6 J**	**4.1 J**	**5.2 J**	**6.8 J**	DRY
May-2014				0.47	**0.88 J**	**1.1 J**	**2.6 J**	**1.4 J**	**1.8 J**	**2.0 J**	**0.84 J**	**1.9 J**	**3.4 J**	**3.4 J**	**1.3 J**	**1.3 J**	**2.0 J**	**2.4 J**	**2.6 J**	**9.9 J**	**2.3 J**	**2.7 J**	DRY

Table 4
Historical Groundwater and Surface Water Quality Data
Construction and Demolition Debris (C&D) Landfill, Pitt County, North Carolina

Parameter : Acetone CAS No. 67-64-1

Sample	Compliance Limit (µg/L)			MDL	Analytical Results (µg/L)																	
Date	SWSL	2L Standard	2B Standard		*MW-1S*	*MW-2S*	*MW-3S*	*MW-3A*	*MW-4*	*MW-5*	*MW-6*	*MW-7*	*MW-8*	*MW-9A*	*MW-10*	*MW-11*	*MW-12S*	*MW-13*	*MW-14S*	*SW-1*	*SW-2*	*SW-3*	*SW-4*
Nov-2007	100	6,000	2,000		ND	**2.2 J**	**3.3 J**		ND	ND	**2.7 J**	**1.7 J**	**2.3 J**							NS	**2.3 J**	**2.2 J**	
May-2008				1.21	**3.3 J**	**2.7 J**	**5.6 J**		**3.10 J**	**4.10 J**	**4.50 J**	**3.40 J**	**4.50 J**							**4.50 J**	**5.50 J**	**3.80 J**	
Nov-2008					**1.7 J**	**3.4 J**	**4.5 J**		**1.3 J**	**1.5 J**	**2.7 J**	**2.4 J**	**2.8 J**							ND	**3.7 J**	**5.3 J**	
May-2009				1.21	**3 J**	ND	**2.1 J**		ND	ND	ND	ND	ND							ND	**1.3 J**	ND	
Jan-2010				9.06	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
May-2010				9.06	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Nov-2010				9.06	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**29 J**	ND	ND	ND	ND	ND	ND
May-2011				9.06	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Nov-2011				9.06	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**10.10 J**	ND	ND	ND	ND	ND	ND
May-2012				9.06	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Nov-2012				9.06	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
May-2013				9.06	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	DRY
May-2014				9.06	ND<9.06 U	ND<9.06 U	ND<9.06 U	ND<9.06 U	ND<9.06 U	ND<9.06 U	ND<9.06 U	ND<9.06 U	ND<9.06 U	ND<9.06 U	ND<9.06 U	ND<9.06 U	ND<9.06 U	ND<9.06 U	ND<9.06 U	ND<9.06 U	ND<9.06 U	ND<9.06 U	DRY

Parameter : Benzene CAS No. 71-43-2

Sample	Compliance Limit (µg/L)			MDL	Analytical Results (µg/L)																	
Date	SWSL	2L Standard	2B Standard		*MW-1S*	*MW-2S*	*MW-3S*	*MW-3A*	*MW-4*	*MW-5*	*MW-6*	*MW-7*	*MW-8*	*MW-9A*	*MW-10*	*MW-11*	*MW-12S*	*MW-13*	*MW-14S*	*SW-1*	*SW-2*	*SW-3*	*SW-4*
Nov-2007	1	1	51		ND	NA	**1.0**		ND	ND	**0.2 J**	**0.3 J**	**0.7 J**							NS	ND	ND	
May-2008				0.16	ND	ND	**1.1**		ND	ND	ND	ND	**0.50 J**							ND	ND	ND	
Nov-2008					ND	ND	**2.1**		ND	ND	ND	ND	**0.5 J**							ND	ND	ND	
May-2009				0.16	ND	ND	**1.5**		ND	ND	ND	ND	**0.3 J**							ND	ND	ND	
Jan-2010				0.24	ND	ND	**1.3**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
May-2010				0.24	ND	ND	**3.1**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Nov-2010				0.24	**0.6 J**	ND	**2.1**	**0.90 J**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
May-2011				0.24	**0.3 J**	ND	**1.0**	ND	ND	ND	ND	ND	**0.40 J**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Nov-2011				0.24	ND	ND	**1.1**	**0.60 J**	ND	ND	ND	ND	**0.40 J**	ND	ND	ND	**0.30 J**	ND	ND	ND	ND	ND	ND
May-2012				0.24	ND	ND	**1.0**	**0.60 J**	ND	ND	ND	ND	**1.10**	ND	ND	ND	**1.20**	ND	ND	ND	ND	ND	ND
Nov-2012				0.24	ND	**0.6 J**	**1.2**	**0.70 J**	ND	ND	ND	ND	**1.60**	ND	ND	ND	**0.7 J**	ND	ND	ND	ND	ND	ND
May-2013				0.24	ND	ND	ND	**0.30 J**	ND	ND	ND	ND	ND	ND	ND	ND	**1.10**	ND	**0.40 J**	ND	ND	ND	DRY
May-2014				0.24	ND<0.24 U	ND<0.24 U	**1.10**	ND<0.24 U	ND<0.24 U	ND<0.24 U	ND<0.24 U	**0.3 J**	**1.90**	ND<0.24 U	ND<0.24 U	ND<0.24 U	**0.40 J**	ND<0.24 U	ND<0.24 U	ND<0.24 U	ND<0.24 U	ND<0.24 U	DRY

Parameter : Cis-1,2-Dichloroethene CAS No. 156-59-2

Sample	Compliance Limit (µg/L)			MDL	Analytical Results (µg/L)																	
Date	SWSL	2L Standard	2B Standard		*MW-1S*	*MW-2S*	*MW-3S*	*MW-3A*	*MW-4*	*MW-5*	*MW-6*	*MW-7*	*MW-8*	*MW-9A*	*MW-10*	*MW-11*	*MW-12S*	*MW-13*	*MW-14S*	*SW-1*	*SW-2*	*SW-3*	*SW-4*
Nov-2007	5	70	720		ND	ND	**0.2 J**		ND	ND	ND	ND	**0.20 J**							NS	ND	ND	
May-2008				0.14	ND	ND	**0.2 J**		ND	ND	ND	ND	**0.20 J**							ND	ND	ND	
Nov-2008					**1.0 J**	**1.4 J**	**1.3 J**		ND	ND	ND	ND	**0.20 J**							ND	ND	**1.6 J**	
May-2009				0.14	ND	ND	**0.2 J**		ND	ND	ND	ND	ND							ND	ND	ND	
Jan-2010				0.25	ND	ND	**0.3 J**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
May-2010				0.25	ND	ND	**0.5 J**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Nov-2010				0.25	ND	ND	**0.3 J**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
May-2011				0.25	ND	ND	**0.3 J**	ND	ND	ND	ND	ND	**0.40 J**	ND	ND	ND	**0.60 J**	ND	ND	ND	ND	ND	ND
Nov-2011				0.25	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**1.20 J**	ND	ND	ND	ND	ND	ND
May-2012				0.25	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**8.50**	ND	ND	ND	ND	ND	ND
Nov-2012				0.25	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**4.10 J**	ND	ND	ND	ND	ND	ND
May-2013				0.25	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**5.90**	ND	**1.40 J**	ND	ND	ND	DRY
May-2014				0.25	ND<0.25 U	ND<0.25 U	ND<0.25 U	ND<0.25 U	ND<0.25 U	ND<0.25 U	ND<0.25 U	ND<0.25 U	ND<0.25 U	ND<0.25 U	ND<0.25 U	ND<0.25 U	**0.70 J**	ND<0.25 U	**0.30 J**	ND<0.25 U	ND<0.25 U	ND<0.25 U	DRY

Table 4
Historical Groundwater and Surface Water Quality Data
Construction and Demolition Debris (C&D) Landfill, Pitt County, North Carolina

Parameter : Methylene Chloride CAS No. 75-09-2

Sample	Compliance Limit (µg/L)			MDL	Analytical Results (µg/L)																	
Date	SWSL	2L Standard	2B Standard		*MW-1S*	*MW-2S*	*MW-3S*	*MW-3A*	*MW-4*	*MW-5*	*MW-6*	*MW-7*	*MW-8*	*MW-9A*	*MW-10*	*MW-11*	*MW-12S*	*MW-13*	*MW-14S*	*SW-1*	*SW-2*	*SW-3*	*SW-4*
Nov-2007	1	5	590		ND	ND	**0.30 J**		ND	ND	ND	ND	**0.20 J**							NS	ND	ND	
May-2008				0.14	ND	**0.20 J**	**0.20 J**		**0.20 J**	**0.20 J**	**0.20 J**	**0.20 J**	**0.30 J**							**0.20 J**	**0.20 J**	**0.20 J**	
Nov-2008					ND	ND	ND		ND	ND	ND	ND	**0.20 J**							ND	ND	ND	
May-2009				0.14	ND	ND	**0.20 J**		ND	ND	ND	ND	**0.20 J**							ND	ND	ND	
Jan-2010				0.64	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
May-2010				0.64	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Nov-2010				0.64	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**11.2**	ND	ND	ND	ND	ND	ND
May-2011				0.64	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**0.9 J**	ND	ND	ND	ND	ND	ND
Nov-2011				0.64	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
May-2012				0.64	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Nov-2012				0.64	ND	ND	**0.80 J**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
May-2013				0.64	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	DRY
May-2014				0.64	ND<0.64 U	ND<0.64 U	ND<0.64 U	ND<0.64 U	ND<0.64 U	ND<0.64 U	ND<0.64 U	ND<0.64 U	ND<0.64 U	ND<0.64 U	ND<0.64 U	ND<0.64 U	ND<0.64 U	ND<0.64 U	ND<0.64 U	ND<0.64 U	ND<0.64 U	ND<0.64 U	DRY

Parameter : Tetrachloroethene CAS No. 127-18-4

Sample	Compliance Limit (µg/L)			MDL	Analytical Results (µg/L)																	
Date	SWSL	2L Standard	2B Standard		*MW-1S*	*MW-2S*	*MW-3S*	*MW-3A*	*MW-4*	*MW-5*	*MW-6*	*MW-7*	*MW-8*	*MW-9A*	*MW-10*	*MW-11*	*MW-12S*	*MW-13*	*MW-14S*	*SW-1*	*SW-2*	*SW-3*	*SW-4*
Nov-2007	1	0.7	3.3		ND	NA	ND		ND	ND	ND	ND	ND							ND	ND	ND	
May-2008				0.16	ND	ND	ND		ND	ND	ND	ND	ND							ND	ND	ND	
Nov-2008					ND	ND	ND		ND	ND	ND	ND	ND							ND	ND	ND	
May-2009				0.16	ND	ND	ND		ND	ND	ND	ND	ND							ND	ND	ND	
Jan-2010				0.17	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
May-2010				0.17	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Nov-2010				0.17	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**0.2 J**	ND	ND	ND	ND	ND	ND
May-2011				0.17	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**0.2 J**	ND	ND	ND	ND	ND	ND
Nov-2011				0.17	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
May-2012				0.17	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Nov-2012				0.17	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
May-2013				0.17	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	DRY
May-2014				0.17	ND<0.17 U	ND<0.17 U	ND<0.17 U	ND<0.17 U	ND<0.17 U	ND<0.17 U	ND<0.17 U	ND<0.17 U	ND<0.17 U	ND<0.17 U	ND<0.17 U	ND<0.17 U	ND<0.17 U	ND<0.17 U	ND<0.17 U	ND<0.17 U	ND<0.17 U	ND<0.17 U	DRY

Parameter: Tetrahydrofuran CAS No. 109-99-9

Sample	Compliance Limit (µg/L)			MDL	Analytical Results (µg/L)																	
Date	SWSL	2L Standard	2B Standard		*MW-1S*	*MW-2S*	*MW-3S*	*MW-3A*	*MW-4*	*MW-5*	*MW-6*	*MW-7*	*MW-8*	*MW-9A*	*MW-10*	*MW-11*	*MW-12S*	*MW-13*	*MW-14S*	*SW-1*	*SW-2*	*SW-3*	*SW-4*
May-2011	NE	NE	NE	0.39	ND	**0.7 J**	**2.5**	ND	ND	**0.9 J**	**2.30**	**4.50**	ND	ND	ND	ND	ND	ND	ND	ND	ND	**0.6 J**	ND
Nov-2011				0.39	ND	ND	**6.7**	**3.30**	ND	ND	**1.90**	ND	**3.90**	ND	ND	ND	**4.20**	ND	**0.9 J**	ND	ND	ND	ND
May-2012				0.39	**1.80**	**2.40**	**4.4**	**5.10**	**1.40**	**1.70**	**2.70**	**6.40**	**5.20**	ND	ND	**18.40**	**2.50**	ND	**14.00**	ND	ND	ND	ND
Nov-2012				0.39	ND	**8.50**	**4.6**	**3.80**	ND	ND	ND	**1.20**	**5.50**	ND	ND	**6.20**	**10.90**	ND	**0.70 J**	ND	ND	ND	ND
May-2013				0.39	ND	ND	**5.6**	**2.40**	ND	ND	**4.40**	**20.90**	**5.40**	ND	ND	ND	**3.30**	ND	**7.40**	ND	ND	ND	DRY
May-2014				0.39	ND<0.39 U	**1.0**	**6.5**	ND<0.39 U	ND<0.39 U	ND<0.39 U	ND<0.39 U	**10.8**	**10.2**	ND<0.39 U	ND<0.39 U	ND<0.39 U	**5.50**	ND<0.39 U	**0.80 J**	ND<0.39 U	ND<0.39 U	ND<0.39 U	DRY

Table 4
Historical Groundwater and Surface Water Quality Data
Construction and Demolition Debris (C&D) Landfill, Pitt County, North Carolina

Parameter: Trichloroethene CAS No. 79-01-6

Sample	Compliance Limit (µg/L)			MDL	Analytical Results (µg/L)																		
Date	SWSL	2L Standard	2B Standard		*MW-1S*	*MW-2S*	*MW-3S*	*MW-3A*	*MW-4*	*MW-5*	*MW-6*	*MW-7*	*MW-8*	*MW-9A*	*MW-10*	*MW-11*	*MW-12S*	*MW-13*	*MW-14S*	*SW-1*	*SW-2*	*SW-3*	*SW-4*
Nov-2007	1	3	30		ND	NA	ND		ND	ND	ND	ND	ND							NS	ND	ND	
May-2008				0.13	ND	ND	ND		ND	ND	ND	ND	ND							ND	ND	ND	
Nov-2008					ND	ND	ND		ND	ND	ND	ND	ND							ND	ND	ND	
May-2009				0.13	ND	ND	ND		ND	ND	ND	ND	ND							ND	ND	ND	
Jan-2010				0.23	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
May-2010				0.23	ND	ND	**0.30 J**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Nov-2010				0.23	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
May-2011				0.23	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**0.70 J**	ND	ND	ND	ND	ND	ND
Nov-2011				0.23	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
May-2012				0.23	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**0.40 J**	ND	ND	ND	ND	ND	ND
Nov-2012				0.23	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
May-2013				0.23	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	DRY
May-2014				0.23	ND<0.23 U	ND<0.23 U	ND<0.23 U	ND<0.23 U	ND<0.23 U	ND<0.23 U	ND<0.23 U	ND<0.23 U	ND<0.23 U	ND<0.23 U	ND<0.23 U	ND<0.23 U	ND<0.23 U	ND<0.23 U	ND<0.23 U	ND<0.23 U	ND<0.23 U	ND<0.23 U	ND<0.23 U	DRY

Parameter: Toluene CAS No. 108-88-3

Sample	Compliance Limit (µg/L)			MDL	Analytical Results (µg/L)																		
Date	SWSL	2L Standard	2B Standard		*MW-1S*	*MW-2S*	*MW-3S*	*MW-3A*	*MW-4*	*MW-5*	*MW-6*	*MW-7*	*MW-8*	*MW-9A*	*MW-10*	*MW-11*	*MW-12S*	*MW-13*	*MW-14S*	*SW-1*	*SW-2*	*SW-3*	*SW-4*
Nov-2007	1	600	11		ND	NA	**0.20 J**		ND	ND	ND	ND	ND							NS	ND	ND	
May-2008				0.13	ND	ND	**0.30 J**		ND	ND	ND	ND	ND							ND	ND	ND	
Nov-2008					ND	ND	**0.40 J**		ND	ND	ND	ND	ND							ND	ND	**0.20 J**	
May-2009				0.13	ND	ND	**0.20 J**		ND	ND	ND	ND	ND							ND	ND	ND	
Jan-2010				0.23	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
May-2010				0.23	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Nov-2010				0.23	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**0.30 J**	ND	ND	ND
May-2011				0.23	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**0.40 J**
Nov-2011				0.23	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**0.40 J**	**0.40 J**	**0.40 J**
May-2012				0.23	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**0.60 J**	ND	ND	**0.50 J**	ND	ND	ND
Nov-2012				0.23	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
May-2013				0.23	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**0.30 J**	**0.30 J**	**1.30**	ND	DRY
May-2014				0.23	ND<0.23 U	ND<0.23 U	ND<0.23 U	ND<0.23 U	ND<0.23 U	ND<0.23 U	ND<0.23 U	ND<0.23 U	ND<0.23 U	ND<0.23 U	ND<0.23 U	ND<0.23 U	ND<0.23 U	ND<0.23 U	ND<0.23 U	**3.3**	**3.0**	ND<0.23 U	DRY

Parameter: Vinyl Chloride CAS No. 75-01-4

Sample	Compliance Limit (µg/L)			MDL	Analytical Results (µg/L)																		
Date	SWSL	2L Standard	2B Standard		*MW-1S*	*MW-2S*	*MW-3S*	*MW-3A*	*MW-4*	*MW-5*	*MW-6*	*MW-7*	*MW-8*	*MW-9A*	*MW-10*	*MW-11*	*MW-12S*	*MW-13*	*MW-14S*	*SW-1*	*SW-2*	*SW-3*	*SW-4*
Nov-2007	1	0.03	2.4		ND	NA	**0.4 J**		ND	ND	ND	ND	ND							NS	ND	ND	
May-2008				0.34	ND	ND	ND		ND	ND	ND	ND	ND							ND	ND	ND	
Nov-2008					ND	ND	**0.5 J**		ND	ND	ND	ND	ND							ND	ND	ND	
May-2009				0.34	ND	ND	ND		ND	ND	ND	ND	ND							ND	ND	ND	
Jan-2010				0.63	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
May-2010				0.63	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Nov-2010				0.63	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
May-2011				0.63	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Nov-2011				0.63	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
May-2012				0.63	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**0.80 J**	ND	ND	ND	ND	ND	ND
Nov-2012				0.63	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**1.90**	ND	ND	ND	ND	ND	ND
May-2013				0.63	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**3.0**	ND	ND	ND	ND	ND	DRY
May-2014				0.63	ND<0.63 U	ND<0.63 U	ND<0.63 U	ND<0.63 U	ND<0.63 U	ND<0.63 U	ND<0.63 U	ND<0.63 U	ND<0.63 U	ND<0.63 U	ND<0.63 U	ND<0.63 U	**1.10**	ND<0.63 U	ND<0.63 U	ND<0.63 U	ND<0.63 U	ND<0.63 U	DRY

Table 4
Historical Groundwater and Surface Water Quality Data
Construction and Demolition Debris (C&D) Landfill, Pitt County, North Carolina

Parameter : Sulfide CAS No. 18496-25-8

Sample	Compliance Limit (µg/L)			MDL	Analytical Results (µg/L)																		
Date	SWSL	2L Standard	2B Standard		*MW-1S*	*MW-2S*	*MW-3S*	*MW-3A*	*MW-4*	*MW-5*	*MW-6*	*MW-7*	*MW-8*	*MW-9A*	*MW-10*	*MW-11*	*MW-12S*	*MW-13*	*MW-14S*	*SW-1*	*SW-2*	*SW-3*	*SW-4*
Jan-2010	1,000	NE	0.21	100	NA	NA	ND	ND	NA	NA	NA	NA	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
May-2010				100	NA	NA	ND	ND	NA	NA	NA	NA	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nov-2010				100	NA	NA	**1,380**	ND	NA	NA	NA	NA	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
May-2011				100	NA	NA	**544 J**	ND	NA	NA	NA	NA	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nov-2011				100	NA	NA	**2,795**	ND	NA	NA	NA	NA	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
May-2012				100	NA	NA	**137 J**	ND	NA	NA	NA	NA	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nov-2012				100	NA	NA	**644 J**	ND	NA	NA	NA	NA	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
May-2013				100	ND	NA	**272 J**	ND	NA	NA	NA	NA	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	DRY
May-2014				100	ND<100 U	NA	**467 J**	ND<100 U	NA	NA	NA	NA	ND<100 U	NA	NA	NA	**230 J**	NA	NA	NA	NA	NA	DRY

Table 4
Historical Groundwater and Surface Water Quality Data
Construction and Demolition Debris (C&D) Landfill, Pitt County, North Carolina

Parameter : pH (field)

Sample	Compliance Limit (S.U.)			Results (S.U. = Standard Units)																		
Date	SWSL	2L Standard	2B Standard	*MW-1S*	*MW-2S*	*MW-3S*	*MW-3A*	*MW-4*	*MW-5*	*MW-6*	*MW-7*	*MW-8*	*MW-9A*	*MW-10*	*MW-11*	*MW-12S*	*MW-13*	*MW-14S*	*SW-1*	*SW-2*	*SW-3*	*SW-4*
Nov-2007	NE	6.5 - 8.5	6.0 - 9.0	6.4	6.5	6.7		6.0	6.5	7.1	6.8	6.5							NM	7.1	7.0	
May-2008				6.1	6.3	6.6		5.9	6.9	6.8	6.5	6.4							6.0	6.9	6.2	
Nov-2008				6.6	6.6	6.6																
May-2009				6.2	6.3	6.6		6.3	6.9	6.8	6.6	6.5							5.6	6.9	6.1	
Jan-2010				5.8	5.8	6.4	6.5	6.0	6.2	5.7	5.7	6.2	7.1	5.8	6.4	5.7	5.1	5.7	5.5	6.7	6.0	5.6
May-2010				6.7	5.8	6.5	6.9	6.2	6.7	6.6	6.5	6.3	7.4	7.2	7.3	7.0	5.3	7.2	6.0	6.8	6.8	6.7
Nov-2010				6.1	5.9	6.5	6.6	6.1	6.0	6.8	6.8	6.5	7.2	7.1	7.3	6.3	5.6	6.6	6.1	6.4	7.3	6.5
May-2011				6.1	5.9	6.5	6.6	6.0	6.6	6.7	6.3	6.4	7.3	6.7	7.2	6.4	5.9	5.7	6.0	6.7	6.8	6.5
Nov-2011				6.1	5.8	6.4	6.5	6.1	6.5	6.6	6.5	6.4	7.4	6.9	7.2	7.5	5.7	6.1	6.0	6.8	6.5	6.5
May-2012				6.2	5.9	6.4	6.4	6.0	6.7	6.6	6.3	6.3	7.2	6.5	6.7	6.2	5.8	6.1	5.9	6.6	6.6	6.3
Nov-2012				6.3	6.4	6.5	6.4	6.1	6.9	6.5	6.6	6.5	7.4	6.7	6.6	6.5	5.9	5.5	6.2	6.9	7.0	6.3
May-2013				6.0	5.9	6.5	6.5	6.0	7.0	6.6	6.7	7.0	7.4	6.5	6.9	6.4	5.6	5.2	6.2	6.7	6.1	DRY
May-2014				6.1	6.4	6.4	6.3	6.3	6.7	6.0	6.5	6.2	7.3	5.6	7.3	6.3	5.8	5.9	6.1	6.7	6.1	DRY

Parameter : Conductivity (field)

Sample	Compliance Limit (µS/cm)			Results (µS/cm = microsiemens per centimeter)																		
Date	SWSL	2L Standard	2B Standard	*MW-1S*	*MW-2S*	*MW-3S*	*MW-3A*	*MW-4*	*MW-5*	*MW-6*	*MW-7*	*MW-8*	*MW-9A*	*MW-10*	*MW-11*	*MW-12S*	*MW-13*	*MW-14S*	*SW-1*	*SW-2*	*SW-3*	*SW-4*
Nov-2007	NE	NE	NE	821	912	1,399		332	905	1,711	1,395	1,602							168	879	123	
May-2008				1,116	426	1,553		398	873	553	502	1,333							189	245	147	
Nov-2008				992	1,441	1,802		433	824	1,601	1,263	1,330							NM	746	166	
May-2009				1,495	626	1,829		435	828	466	506	1,267							144	214	181	
Jan-2010				956	463	1,647	656	246	951	356	222	1,065	398	127	632	296	262	109	126	234	166	162
May-2010				916	380	3,105	475	515	1,587	1,802	2,129	1,619	411	356	577	421	171	408	114	285	188	171
Nov-2010				763	1,069	1,401	1135	477	1626	951	337	1125	523	479	498	799	356	490	112	312	152	117
May-2011				674	1,494	1,954	567	607	2,290	1,159	1,247	1,816	411	889	600	1,522	422	369	129	183	412	149
Nov-2011				782	1,880	402	1,677	551	3,004	1,166	681	1,603	794	794	474	1,867	267	721	114	219	199	136
May-2012				918	1,990	1,553	1,746	930	1,569	1,111	1,471	1,546	397	943	844	1,861	385	1,157	123	348	160	107
Nov-2012				7,007	1,853	1,676	2,061	508	1,215	295	911	2,070	363	877	706	1,678	361	324	108	328	295	152
May-2013				501	1,404	1,223	1,330	480	1,294	1,198	2,520	3,090	356	1,140	864	1,612	271	1,519	124	237	71	DRY
May-2014				377	1,060	1,424	258	389	573	275	2,530	3,380	349	434	826	1,694	253	562	86	333	86	DRY

Parameter : Turbidity (field)

Sample	Compliance Limit (NTU)			Results (NTU = Nephelometric Turbidity Units)																		
Date	SWSL	2L Standard	2B Standard	*MW-1S*	*MW-2S*	*MW-3S*	*MW-3A*	*MW-4*	*MW-5*	*MW-6*	*MW-7*	*MW-8*	*MW-9A*	*MW-10*	*MW-11*	*MW-12S*	*MW-13*	*MW-14S*	*SW-1*	*SW-2*	*SW-3*	*SW-4*
Nov-2007	NE	NE	50	36	28			370	190	280	360	170										
May-2008				70	9.6	<1		100	200	25	230	220							NM	NM	NM	
Nov-2008				80	60	300													NM	NM	NM	
May-2009				280	34	230		120	17	20	65	55							NM	NM	NM	
Jan-2010				150	47	<1	55	300	110	17	35	135	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
May-2010				80	35	330	18	130	40	35	65	140	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Nov-2010				38	19	190	45	170	25	15	25	60	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
May-2011				18	24	270	95	110	200	14	34	330	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Nov-2011				31	17	170	140	150	20	16	25	320	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
May-2012				14	75	280	80	33	190	11	35	450	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Nov-2012				18	150	400	360	70	23	23	7.5	400	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
May-2013				8	7	2	6	17	6	6	5	4	NM	NM	NM	NM	NM	NM	NM	NM	NM	DRY
May-2014				2.56	3.03	4.58	1.76	36.5	117	1.92	6.61	21.1	30.3	19.8	1.95	3.39	13.0	3.03	54.3	10.7	31.9	DRY

Table 4
Historical Groundwater and Surface Water Quality Data
Construction and Demolition Debris (C&D) Landfill, Pitt County, North Carolina

Parameter : Groundwater Elevation

Sample	Compliance Limit			Elevation (feet)														
Date	SWSL	2L Standard	2B Standard	*MW-1S*	*MW-2S*	*MW-3S*	*MW-3A*	*MW-4*	*MW-5*	*MW-6*	*MW-7*	*MW-8*	*MW-9A*	*MW-10*	*MW-11*	*MW-12S*	*MW-13*	*MW-14S*
Nov-2007	Not Applicable			**11.03**	**9.56**	**10.28**		**10.74**	**10.47**	**9.65**	**9.98**	**10.63**						
May-2008				**11.05**	**10.93**	**11.02**		**11.84**	**11.30**	**10.58**	**11.00**	**11.35**						
Nov-2008				**10.31**	**9.14**	**9.77**		**10.03**	**10.14**	**9.35**	**9.51**	**10.07**						
May-2009				**11.77**	**10.32**	**10.56**		**11.62**	**10.90**	**10.19**	**10.72**	**10.76**						
Jan-2010				**13.74**	**11.65**	**11.42**	**11.12**	**12.19**	**12.04**	**11.07**	**11.60**	**11.70**	**14.94**	**13.61**	**11.52**	**11.71**	**12.45**	**12.51**
May-2010				**11.87**	**10.83**	**10.70**	**10.36**	**11.62**	**11.33**	**10.64**	**11.06**	**12.74**	**13.76**	**12.50**	**11.02**	**12.03**	**11.22**	**11.41**
Nov-2010				**12.71**	**11.43**	**11.14**	**10.61**	**11.61**	**11.70**	**10.88**	**11.24**	**11.62**	**14.50**	**12.78**	**8.35**	**11.25**	**12.44**	**12.59**
May-2011				**11.97**	**10.56**	**10.71**	**10.39**	**11.49**	**11.19**	**10.40**	**10.85**	**11.25**	**13.57**	**12.33**	**10.26**	**11.00**	**12.01**	**12.03**
Nov-2011				**12.71**	**11.88**	**11.29**	**10.83**	**11.92**	**11.64**	**10.61**	**11.14**	**11.76**	**14.46**	**12.69**	**11.24**	**11.51**	**12.10**	**12.03**
May-2012				**12.04**	**10.43**	**10.53**	**10.31**	**11.49**	**11.10**	**10.30**	**10.79**	**11.36**	**13.67**	**12.21**	**10.33**	**11.06**	**11.86**	**11.99**
Nov-2012				**12.71**	**10.50**	**10.68**	**10.50**	**11.80**	**11.32**	**10.49**	**10.79**	**11.49**	**14.60**	**12.68**	**10.94**	**10.70**	**11.51**	**11.49**
May-2013				**12.55**	**10.71**	**10.90**	**10.42**	**11.85**	**11.45**	**10.44**	**11.08**	**11.58**	**13.99**	**12.28**	**10.32**	**10.50**	**10.77**	**11.00**
May-2014				**13.31**	**11.43**	**11.55**	**11.13**	**11.86**	**11.60**	**11.13**	**11.70**	**12.27**	**13.97**	**12.68**	**10.82**	**10.93**	**11.29**	**11.49**

NOTES:

1. This table shows historically detected constituents only, in either groundwater or surface water samples.
   Historical data is taken from July 2013 Water Quality Monitoring Report for May 2013 prepared by David Garrett & Associates Engineering and Geology.
2. MW-1S through MW-14S indicate Phase 1 and Phase 2 monitoring groundwater wells. SW-1 through SW-4 indicate surface water sampling locations.
3. Phase 1 monitoring wells are as follows: MW-1S, MW-2S, MW-4, MW-5, MW-6, MW-7 (detection monitoring program) and MW-3S, MW-3A and MW-8 (detection and assessment monitoring program).
4. Phase 2 monitoring wells are as follows: MW-9A (background well), MW-10, MW-11, MW-12S, MW-13, and MW-14S (detection monitoring program).
5. Compliance Limit = SWSL or 2L or 2B Standard.
6. SWSL = Solid Waste Section Limit (June 13, 2011).
7. µg/L = micrograms per liter. mg/L = milligrams per liter.
8. 2L Standard = NCAC Title 15A Subchapter 2L Classifications and Water Quality Standards Applicable to the GWs of North Carolina (April 1, 2013).
9. 2B Standard = Standards, criteria, or toxic concentrations either adopted per 15A NCAC 2B or National Criteria per EPA (Current as of 5/15/2013).
10. MDL = Method Detection Limit.
11. ND or ND< U = not detected above the method detection limit
12. J indicates the detected result is above MDL and below the SWSL. U indicates concentration below MDL and MRL; non-detec
13. NA = Not Analyzed or Not Applicable. NE = Not Established. NS = Not Sampled
14. **Bold font** indicates analyte detection above MDL
15. **Shaded field** denotes result that was at or above the Compliance Limit
16. Blank cells indicate that there is no relevant information available

ATTACHMENT 1

Laboratory Analytical Results

Environment 1, Incorporated

Environment 1, Incorporated

Drinking Water ID: 37715
Wastewater ID: 10

P.O. BOX 7085, 114 OAKMONT DRIVE
GREENVILLE, N.C. 27835-7085

PHONE (252) 756-6208
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ID#: 6003 A

JUDSON WHITEHURST (C&D LANDFILL)
C/O MR DAVID GARRETT
5105 HARBOUR TOWNE DRIVE
RALEIGH ,NC 27604

DATE COLLECTED: 05/15/14
DATE REPORTED : 06/10/14

REVIEWED BY:

PARAMETERS	MDL	SWSL	MW-3A	MW-4	MW-5	MW-6	MW-7	Analysis Date	Analyst	Method Code
PH (field measurement), Units			6.3	6.3	6.7	6.0	6.5	05/15/14	BF	4500HB-00
Cyanide, ug/l	5.0	10.0	--- U					05/28/14	SEJ	4500CNE-99
Antimony, ug/l	0.02	6.0	0.03 J	--- U	0.34 J	--- U	0.12 J	05/23/14	LFJ	EPA200.8
Arsenic, ug/l	0.05	10.0	--- U	--- U	0.28 J	--- U	2.1 J	05/23/14	LFJ	EPA200.8
Barium, ug/l	0.06	100.0	28.6 J	80.2 J	67.9 J	110	291	05/23/14	LFJ	EPA200.8
Beryllium, ug/l	0.03	1.0	--- U	0.23 J	--- U	0.05 J	0.04 J	05/23/14	LFJ	EPA200.8
Cadmium, ug/l	0.05	1.0	0.15 J	0.08 J	0.05 J	0.31 J	0.29 J	05/23/14	LFJ	EPA200.8
Cobalt, ug/l	0.02	10.0	0.28 J	0.30 J	0.34 J	0.22 J	5.2 J	05/23/14	LFJ	EPA200.8
Copper, ug/l	0.06	10.0	0.54 J	0.31 J	4.0 J	0.52 J	1.7 J	05/23/14	LFJ	EPA200.8
Total Chromium, ug/l	0.04	10.0	0.29 J	1.9 J	3.1 J	0.38 J	6.1 J	05/23/14	LFHJ	EPA200.8
Lead, ug/l	0.02	10.0	0.06 J	0.74 J	0.51 J	0.04 J	0.14 J	05/23/14	LFJ	EPA200.8
Mercury, ug/l	0.01	0.20	--- U					05/30/14	MTM	245.1 R3-94
Nickel, ug/l	0.45	50.0	1.5 J	0.87 J	2.2 J	0.71 J	3.5 J	05/23/14	LFJ	EPA200.8
Selenium, ug/l	0.06	10.0	--- U	--- U	--- U	--- U	3.4 J	05/23/14	LFJ	EPA200.8
Silver, ug/l	0.03	10.0	--- U	--- U	--- U	--- U	--- U	05/23/14	LFJ	EPA200.8
Thallium, ug/l	0.02	5.5	0.06 J	--- U	0.02 J	--- U	0.26 J	05/23/14	LFJ	EPA200.8
Tin, ug/l	0.06	100.0	0.06 J					05/23/14	LFJ	EPA200.8
Vanadium, ug/l	0.07	25.0	--- U	3.2 J	1.1 J	0.34 J	1.3 J	05/23/14	LFJ	EPA200.8
Zinc, ug/l	0.47	10.0	1.4 J	1.8 J	2.0 J	0.84 J	1.9 J	05/23/14	LFJ	EPA200.8
Sulfide, ug/l	100	1000	--- U					05/21/14	LFJ	4500S2D-00
Conductivity (at 25c), uMhos/cm	1.0	1.0	258	389	573	275	2530	05/15/14	BF	2510B-97
Temperature, °C			18	18	21	19	19	05/15/14	BF	2550B-00
Static Water Level, feet			10.80	6.56	6.30	8.90	7.70	05/15/14	BF	
Well Depth, feet			23.44	15.98	21.06	16.65	16.33	05/15/14	BF	
Turbidity (Field), NTU	1.0	1.0	1.76	36.5	117	1.92	6.61	05/15/14	BF	2130B-01

J = Between MDL and SWSL, U = Below ALL Quantitation Limits.

Environment 1, Incorporated

Drinking Water ID: 37715
Wastewater ID: 10

P.O. BOX 7085, 114 OAKMONT DRIVE
GREENVILLE, N.C. 27835-7085

PHONE (252) 756-6208
FAX (252) 756-0633

ID#: 6003 A

JUDSON WHITEHURST (C&D LANDFILL)
C/O MR DAVID GARRETT
5105 HARBOUR TOWNE DRIVE
RALEIGH ,NC 27604

DATE COLLECTED: 05/15/14
DATE REPORTED : 06/10/14

REVIEWED BY:

PARAMETERS	MDL	SWSL	MW-8	Well #1 Shallow	Well #2 Shallow	Well #3 Shallow	Analysis Date	Analyst	Method Code
PH (field measurement), Units			6.2	6.1	6.4	6.4	05/15/14	BF	4500HB-00
Cyanide, ug/l	5.0	10.0	--- U	--- U		--- U	05/28/14	SEJ	4500CNE-99
Antimony, ug/l	0.02	6.0	0.07 J	0.19 J	--- U	--- U	05/23/14	LFJ	EPA200.8
Arsenic, ug/l	0.05	10.0	5.8 J	--- U	0.12 J	3.8 J	05/23/14	LFJ	EPA200.8
Barium, ug/l	0.06	100.0	157	20.3 J	33.0 J	343	05/23/14	LFJ	EPA200.8
Beryllium, ug/l	0.03	1.0	0.12 J	--- U	0.06 J	0.03 J	05/23/14	LFJ	EPA200.8
Cadmium, ug/l	0.05	1.0	0.39 J	0.11 J	0.14 J	0.19 J	05/23/14	LFJ	EPA200.8
Cobalt, ug/l	0.02	10.0	22	0.13 J	1.0 J	5.9 J	05/23/14	LFJ	EPA200.8
Copper, ug/l	0.06	10.0	2.0 J	1.0 J	0.80 J	1.1 J	05/23/14	LFJ	EPA200.8
Total Chromium, ug/l	0.04	10.0	3.8 J	0.45 J	0.81 J	1.8 J	05/23/14	LFHJ	EPA200.8
Lead, ug/l	0.02	10.0	0.19 J	0.11 J	0.19 J	0.16 J	05/23/14	LFJ	EPA200.8
Mercury, ug/l	0.01	0.20	--- U	--- U		--- U	05/30/14	MTM	245.1 R3-94
Nickel, ug/l	0.45	50.0	7.8 J	1.3 J	1.6 J	3.1 J	05/23/14	LFJ	EPA200.8
Selenium, ug/l	0.06	10.0	4.9 J	--- U	0.38 J	2.9 J	05/23/14	LFJ	EPA200.8
Silver, ug/l	0.03	10.0	--- U	--- U	--- U	--- U	05/23/14	LFJ	EPA200.8
Thallium, ug/l	0.02	5.5	0.03 J	--- U	0.07 J	--- U	05/23/14	LFJ	EPA200.8
Tin, ug/l	0.06	100.0	--- U	--- U		--- U	05/23/14	LFJ	EPA200.8
Vanadium, ug/l	0.07	25.0	1.0 J	0.16 J	--- U	1.3 J	05/23/14	LFJ	EPA200.8
Zinc, ug/l	0.47	10.0	3.4 J	0.88 J	1.1 J	2.6 J	05/23/14	LFJ	EPA200.8
Sulfide, ug/l	100	1000	--- U	--- U		467 J	05/21/14	LFJ	4500S2D-00
Conductivity (at 25c), uMhos/cm	1.0	1.0	3380	377	1060	1424	05/15/14	BF	2510B-97
Temperature, °C			19	19	19	20	05/15/14	BF	2550B-00
Static Water Level, feet			8.94	7.60	10.01	11.47	05/15/14	BF	
Well Depth, feet			20.36	17.21	16.57	22.24	05/15/14	BF	
Turbidity (Field), NTU	1.0	1.0	21.1	2.56	3.03	4.58	05/15/14	BF	2130B-01

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Environment 1, Incorporated

Drinking Water ID: 37715
Wastewater ID: 10

P.O. BOX 7085, 114 OAKMONT DRIVE
GREENVILLE, N.C. 27835-7085

PHONE (252) 756-6208
FAX (252) 756-0633

CLIENT: JUDSON WHITEHURST (C&D LANDFILL)
C/O MR DAVID GARRETT
5105 HARBOUR TOWNE DRIVE
RALEIGH, NC 27604

CLIENT ID: 6003 A

ANALYST: CHS
DATE COLLECTED: 05/15/14
DATE EXTRACTED: 05/21/14
DATE ANALYZED: 05/29/14
DATE REPORTED: 06/10/14

REVIEWED BY:

LANDFILL APPENDIX II
EPA METHOD 8151A R1(96)

PARAMETERS, ug/l	MDL	SWSL	MW-3A	MW-8	Well #1 Shallow	Well #3 Shallow
1. 2,4-D	0.36	2.0	--- U	--- U	--- U	--- U
2. Dinoseb	0.54	1.0	--- U	--- U	--- U	--- U
3. 2,4,5-TP	0.42	2.0	--- U	--- U	--- U	0.429 J
4. 2,4,5-T	0.47	2.0	--- U	--- U	--- U	--- U

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C/O MR DAVID GARRETT
5105 HARBOUR TOWNE DRIVE
RALEIGH, NC 27604

CLIENT ID: 6003 A

ANALYST: MAO
DATE COLLECTED: 05/15/14
DATE REPORTED: 06/10/14

REVIEWED BY:

VOLATILE ORGANICS
EPA METHOD 8260B R1(96)

PARAMETERS, ug/l	MDL	SWSL	05/17/14 MW-3A	05/17/14 MW-4	05/17/14 MW-5	05/17/14 MW-6	05/17/14 MW-7
Date Analyzed:			05/17/14	05/17/14	05/17/14	05/17/14	05/17/14
1. Chloromethane	0.77	1.0	--- U	--- U	--- U	--- U	--- U
2. Vinyl Chloride	0.63	1.0	--- U	--- U	--- U	--- U	--- U
3. Bromomethane	0.67	10.0	--- U	--- U	--- U	--- U	--- U
4. Chloroethane	0.48	10.0	--- U	--- U	--- U	--- U	--- U
5. Trichlorofluoromethane	0.24	1.0	--- U	--- U	--- U	--- U	--- U
6. 1,1-Dichloroethene	0.17	5.0	--- U	--- U	--- U	--- U	--- U
7. Acetone	9.06	100.0	--- U	--- U	--- U	--- U	--- U
8. Iodomethane	0.26	10.0	--- U	--- U	--- U	--- U	--- U
9. Carbon Disulfide	0.23	100.0	--- U	--- U	--- U	--- U	--- U
10. Methylene Chloride	0.64	1.0	--- U	--- U	--- U	--- U	--- U
11. trans-1,2-Dichloroethene	0.23	5.0	--- U	--- U	--- U	--- U	--- U
12. 1,1-Dichloroethane	0.20	5.0	--- U	--- U	--- U	--- U	--- U
13. Vinyl Acetate	0.20	50.0	--- U	--- U	--- U	--- U	--- U
14. Cis-1,2-Dichloroethene	0.25	5.0	--- U	--- U	--- U	--- U	--- U
15. 2-Butanone	2.21	100.0	--- U	--- U	--- U	--- U	--- U
16. Bromochloromethane	0.27	3.0	--- U	--- U	--- U	--- U	--- U
17. Chloroform	0.25	5.0	--- U	--- U	--- U	--- U	--- U
18. 1,1,1-Trichloroethane	0.19	1.0	--- U	--- U	--- U	--- U	--- U
19. Carbon Tetrachloride	0.22	1.0	--- U	--- U	--- U	--- U	--- U
20. Benzene	0.24	1.0	--- U	--- U	--- U	--- U	0.30 J
21. 1,2-Dichloroethane	0.27	1.0	--- U	--- U	--- U	--- U	--- U
22. Trichloroethene	0.23	1.0	--- U	--- U	--- U	--- U	--- U
23. 1,2-Dichloropropane	0.21	1.0	--- U	--- U	--- U	--- U	--- U
24. Bromodichloromethane	0.21	1.0	--- U	--- U	--- U	--- U	--- U
25. Cis-1,3-Dichloropropene	0.24	1.0	--- U	--- U	--- U	--- U	--- U
26. 4-Methyl-2-Pentanone	1.19	100.0	--- U	--- U	--- U	--- U	--- U
27. Toluene	0.23	1.0	--- U	--- U	--- U	--- U	--- U
28. trans-1,3-Dichloropropene	0.28	1.0	--- U	--- U	--- U	--- U	--- U
29. 1,1,2-Trichloroethane	0.25	1.0	--- U	--- U	--- U	--- U	--- U
30. Tetrachloroethene	0.17	1.0	--- U	--- U	--- U	--- U	--- U
31. 2-Hexanone	1.57	50.0	--- U	--- U	--- U	--- U	--- U
32. Dibromochloromethane	0.24	3.0	--- U	--- U	--- U	--- U	--- U
33. 1,2-Dibromoethane	0.26	1.0	--- U	--- U	--- U	--- U	--- U
34. Chlorobenzene	0.30	3.0	--- U	--- U	--- U	--- U	--- U
35. 1,1,1,2-Tetrachloroethane	0.22	5.0	--- U	--- U	--- U	--- U	--- U
36. Ethylbenzene	0.21	1.0	--- U	--- U	--- U	--- U	--- U
37. Xylenes	0.68	5.0	--- U	--- U	--- U	--- U	--- U
38. Dibromomethane	0.28	10.0	--- U	--- U	--- U	--- U	--- U
39. Styrene	0.19	1.0	--- U	--- U	--- U	--- U	--- U
40. Bromoform	0.20	3.0	--- U	--- U	--- U	--- U	--- U
41. 1,1,2,2-Tetrachloroethane	0.26	3.0	--- U	--- U	--- U	--- U	--- U
42. 1,2,3-Trichloropropane	0.43	1.0	--- U	--- U	--- U	--- U	--- U
43. 1,4-Dichlorobenzene	0.39	1.0	--- U	--- U	--- U	--- U	--- U
44. 1,2-Dichlorobenzene	0.32	5.0	--- U	--- U	--- U	--- U	--- U
45. 1,2-Dibromo-3-Chloropropane	0.34	13.0	--- U	--- U	--- U	--- U	--- U
46. Acrylonitrile	2.72	200.0	--- U	--- U	--- U	--- U	--- U
47. trans-1,4-Dichloro-2-Butene	0.42	100.0	--- U	--- U	--- U	--- U	--- U

J = Between MDL and SWSL, U = Below ALL Quantitation Limits.

Environment 1, Incorporated

Drinking Water ID: 37715
Wastewater ID: 10

P.O. BOX 7085, 114 OAKMONT DRIVE
GREENVILLE, N.C. 27835-7085

PHONE (252) 756-6208
FAX (252) 756-0633

CLIENT: JUDSON WHITEHURST (C&D LANDFILL)
C/O MR DAVID GARRETT
5105 HARBOUR TOWNE DRIVE
RALEIGH, NC 27604

CLIENT ID: 6003 A

ANALYST: MAO
DATE COLLECTED: 05/15/14
DATE REPORTED: 06/10/14

REVIEWED BY:

VOLATILE ORGANICS
EPA METHOD 8260B R1(96)

PARAMETERS, ug/l	MDL	SWSL	05/17/14 MW-3A	05/17/14 MW-4	05/17/14 MW-5	05/17/14 MW-6	05/17/14 MW-7
Date Analyzed:							
48. Tetrahydrofuran	0.39	1.0	--- U	--- U	--- U	--- U	10.80

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VOLATILE ORGANICS
EPA METHOD 8260B R1(96)

PARAMETERS, ug/l	Date Analyzed: MDL	SWSL	05/23/14 MW-8	05/23/14 Well #1 Shallow	05/23/14 Well #2 Shallow	05/23/14 Well #3 Shallow
1. Chloromethane	0.77	1.0	--- U	--- U	--- U	--- U
2. Vinyl Chloride	0.63	1.0	--- U	--- U	--- U	--- U
3. Bromomethane	0.67	10.0	--- U	--- U	--- U	--- U
4. Chloroethane	0.48	10.0	--- U	--- U	--- U	--- U
5. Trichlorofluoromethane	0.24	1.0	--- U	--- U	--- U	--- U
6. 1,1-Dichloroethene	0.17	5.0	--- U	--- U	--- U	--- U
7. Acetone	9.06	100.0	--- U	--- U	--- U	--- U
8. Iodomethane	0.26	10.0	--- U	--- U	--- U	--- U
9. Carbon Disulfide	0.23	100.0	--- U	--- U	--- U	--- U
10. Methylene Chloride	0.64	1.0	--- U	--- U	--- U	--- U
11. trans-1,2-Dichloroethene	0.23	5.0	--- U	--- U	--- U	--- U
12. 1,1-Dichloroethane	0.20	5.0	--- U	--- U	--- U	--- U
13. Vinyl Acetate	0.20	50.0	--- U	--- U	--- U	--- U
14. Cis-1,2-Dichloroethene	0.25	5.0	--- U	--- U	--- U	--- U
15. 2-Butanone	2.21	100.0	--- U	--- U	--- U	--- U
16. Bromochloromethane	0.27	3.0	--- U	--- U	--- U	--- U
17. Chloroform	0.25	5.0	--- U	--- U	--- U	--- U
18. 1,1,1-Trichloroethane	0.19	1.0	--- U	--- U	--- U	--- U
19. Carbon Tetrachloride	0.22	1.0	--- U	--- U	--- U	--- U
20. Benzene	0.24	1.0	1.90	--- U	--- U	1.10
21. 1,2-Dichloroethane	0.27	1.0	--- U	--- U	--- U	--- U
22. Trichloroethene	0.23	1.0	--- U	--- U	--- U	--- U
23. 1,2-Dichloropropane	0.21	1.0	--- U	--- U	--- U	--- U
24. Bromodichloromethane	0.21	1.0	--- U	--- U	--- U	--- U
25. Cis-1,3-Dichloropropene	0.24	1.0	--- U	--- U	--- U	--- U
26. 4-Methyl-2-Pentanone	1.19	100.0	--- U	--- U	--- U	--- U
27. Toluene	0.23	1.0	--- U	--- U	--- U	--- U
28. trans-1,3-Dichloropropene	0.28	1.0	--- U	--- U	--- U	--- U
29. 1,1,2-Trichloroethane	0.25	1.0	--- U	--- U	--- U	--- U
30. Tetrachloroethene	0.17	1.0	--- U	--- U	--- U	--- U
31. 2-Hexanone	1.57	50.0	--- U	--- U	--- U	--- U
32. Dibromochloromethane	0.24	3.0	--- U	--- U	--- U	--- U
33. 1,2-Dibromoethane	0.26	1.0	--- U	--- U	--- U	--- U
34. Chlorobenzene	0.30	3.0	--- U	--- U	--- U	--- U
35. 1,1,1,2-Tetrachloroethane	0.22	5.0	--- U	--- U	--- U	--- U
36. Ethylbenzene	0.21	1.0	--- U	--- U	--- U	--- U
37. Xylenes	0.68	5.0	--- U	--- U	--- U	--- U
38. Dibromomethane	0.28	10.0	--- U	--- U	--- U	--- U
39. Styrene	0.19	1.0	--- U	--- U	--- U	--- U
40. Bromoform	0.20	3.0	--- U	--- U	--- U	--- U
41. 1,1,2,2-Tetrachloroethane	0.26	3.0	--- U	--- U	--- U	--- U
42. 1,2,3-Trichloropropane	0.43	1.0	--- U	--- U	--- U	--- U
43. 1,4-Dichlorobenzene	0.39	1.0	--- U	--- U	--- U	--- U
44. 1,2-Dichlorobenzene	0.32	5.0	--- U	--- U	--- U	--- U
45. 1,2-Dibromo-3-Chloropropane	0.34	13.0	--- U	--- U	--- U	--- U
46. Acrylonitrile	2.72	200.0	--- U	--- U	--- U	--- U
47. trans-1,4-Dichloro-2-Butene	0.42	100.0	--- U	--- U	--- U	--- U

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Wastewater ID: 10

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CLIENT: JUDSON WHITEHURST (C&D LANDFILL)
C/O MR DAVID GARRETT
5105 HARBOUR TOWNE DRIVE
RALEIGH, NC 27604

CLIENT ID: 6003 A

ANALYST: MAO
DATE COLLECTED: 05/15/14
DATE REPORTED: 06/10/14

REVIEWED BY:

VOLATILE ORGANICS
EPA METHOD 8260B R1(96)

PARAMETERS, ug/l	MDL	SWSL	05/23/14 MW-8	05/23/14 Well #1 Shallow	05/23/14 Well #2 Shallow	05/23/14 Well #3 Shallow
48. Tetrahydrofuran	0.39	1.0	10.20	--- U	1.00	6.50

J = Between MDL and SWSL, U = Below ALL Quantitation Limits.

Environment 1, Incorporated

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C/O MR DAVID GARRETT
5105 HARBOUR TOWNE DRIVE
RALEIGH, NC 27604

CLIENT ID: 6003 A

ANALYST: CHS
DATE COLLECTED: 05/15/14
DATE EXTRACTED: 05/20/14
DATE ANALYZED: 05/30/14
DATE REPORTED: 06/10/14

REVIEWED BY:

SEMI-VOLATILE ORGANICS
EPA METHOD 8270D R4(07)

PARAMETERS, ug/l	MDL	SWSL	MW-3A	MW-8	Well #1 Shallow	Well #3 Shallow
1. Acenaphthene	2.66	10.0	--- U	--- U	--- U	--- U
2. Acenaphthylene	2.60	10.0	--- U	--- U	--- U	--- U
3. Anthracene	2.97	10.0	--- U	--- U	--- U	--- U
4. Benzo[a]antrhacene	4.16	10.0	--- U	--- U	--- U	--- U
5. Benzo[b]fluoranthene	3.32	10.0	--- U	--- U	--- U	--- U
6. Benzo[k]fluoranthene	4.23	10.0	--- U	--- U	--- U	--- U
7. Benzo[g,h,i]perylene	2.61	10.0	--- U	--- U	--- U	--- U
8. Benzo[a]pyrene	3.27	10.0	--- U	--- U	--- U	--- U
9. 4-Bromophenyl Phenyl Ether	2.63	10.0	--- U	--- U	--- U	--- U
10. Butyl Benzyl Phthalate	5.78	10.0	--- U	--- U	--- U	--- U
11. Bis-(2-Chloroethoxy) Methane	3.14	10.0	--- U	--- U	--- U	--- U
12. Bis-(2-Chloroethyl) Ether	2.58	10.0	--- U	--- U	--- U	--- U
13. Bis-(2-Chloroisopropyl) Ether	2.58	10.0	--- U	--- U	--- U	--- U
14. 2-Chloronaphthalene	2.17	10.0	--- U	--- U	--- U	--- U
15. 4-Chlorophenyl Phenyl Ether	2.42	10.0	--- U	--- U	--- U	--- U
16. Chrysene	4.04	10.0	--- U	--- U	--- U	--- U
17. Dibenzo[a,h]anthracene	2.78	10.0	--- U	--- U	--- U	--- U
18. Di-N-Butyl Phthalate	3.09	10.0	--- U	--- U	--- U	--- U
19. Dimethyl Phthalate	3.78	10.0	--- U	--- U	--- U	--- U
20. Diethyl Phthalate	3.92	10.0	--- U	--- U	--- U	--- U
21. 2,4-Dinitrotoluene	3.95	10.0	--- U	--- U	--- U	--- U
22. 2,6-Dinitrotoluene	3.88	10.0	--- U	--- U	--- U	--- U
23. Di-N-Octyl Phthalate	2.81	10.0	--- U	--- U	--- U	--- U
24. Bis-(2-Ethylhexyl) Phthalate	9.97	15.0	--- U	--- U	--- U	--- U
25. Fluoranthene	3.92	10.0	--- U	--- U	--- U	--- U
26. Fluorene	2.95	10.0	--- U	--- U	--- U	--- U
27. Hexachlorobenzene	2.61	10.0	--- U	--- U	--- U	--- U
28. Hexachlorocyclopentadiene	4.16	10.0	--- U	--- U	--- U	--- U
29. Indeno[1,2,3-Cd]pyrene	2.91	10.0	--- U	--- U	--- U	--- U
30. Isophorone	3.74	10.0	--- U	--- U	--- U	--- U
31. Nitrobenzene	2.85	10.0	--- U	--- U	--- U	--- U
32. N-Nitrosodimethylamine	4.25	10.0	--- U	--- U	--- U	--- U
33. N-Nitrosodiphenylamine	3.95	10.0	--- U	--- U	--- U	--- U
34. N-Nitrosodi-N-Propylamine	4.06	10.0	--- U	--- U	--- U	--- U
35. Phenanthrene	3.24	10.0	--- U	--- U	--- U	--- U
36. Pyrene	3.63	10.0	--- U	--- U	--- U	--- U
37. 4-Chloro-3-Methylphenol	3.79	20.0	--- U	--- U	--- U	--- U
38. 2-Chlorophenol	2.75	10.0	--- U	--- U	--- U	--- U
39. O-Cresol	3.68	10.0	--- U	--- U	--- U	--- U
40. P-Cresol	4.12	10.0	--- U	--- U	--- U	--- U
41. 2,4-Dichlorophenol	5.19	10.0	--- U	--- U	--- U	--- U
42. 2,6-Dichlorophenol	4.89	10.0	--- U	--- U	--- U	--- U
43. 2,4-Dimethylphenol	3.21	10.0	--- U	--- U	--- U	--- U
44. 4,6-Dinitro-2-Methylphenol	4.77	50.0	--- U	--- U	--- U	--- U
45. 2,4-Dinitrophenol	4.37	50.0	--- U	--- U	--- U	--- U
46. Ethyl Methanesulfonate	5.26	20.0	--- U	--- U	--- U	--- U
47. Methyl Methanesulfonate	4.92	10.0	--- U	--- U	--- U	--- U
48. 2-Nitrophenol	3.64	10.0	--- U	--- U	--- U	--- U

J = Between MDL and SWSL, U = Below ALL Quantitation Limits.

Environment 1, Incorporated

Drinking Water ID: 37715
Wastewater ID: 10

P.O. BOX 7085, 114 OAKMONT DRIVE
GREENVILLE, N.C. 27835-7085

PHONE (252) 756-6208
FAX (252) 756-0633

CLIENT: JUDSON WHITEHURST (C&D LANDFILL)
C/O MR DAVID GARRETT
5105 HARBOUR TOWNE DRIVE
RALEIGH, NC 27604

CLIENT ID: 6003 A

ANALYST: CHS
DATE COLLECTED: 05/15/14
DATE EXTRACTED: 05/20/14
DATE ANALYZED: 05/30/14
DATE REPORTED: 06/10/14

REVIEWED BY:

SEMI-VOLATILE ORGANICS
EPA METHOD 8270D R4(07)

PARAMETERS, ug/l	MDL	SWSL	MW-3A	MW-8	Well #1 Shallow	Well #3 Shallow
49. 4-Nitrophenol	3.17	50.0	--- U	--- U	--- U	--- U
50. Pentachlorophenol	5.33	25.0	--- U	--- U	--- U	--- U
51. Phenol	1.86	10.0	--- U	--- U	--- U	--- U
52. 2,3,4,6-Tetrachlorophenol	3.12	10.0	--- U	--- U	--- U	--- U
53. 2,4,5-Trichlorophenol	4.17	10.0	--- U	--- U	--- U	--- U
54. 2,4,6-Trichlorophenol	3.84	10.0	--- U	--- U	--- U	--- U
55. Acetophenone	2.89	10.0	--- U	--- U	--- U	--- U
56. 2-Acetylaminofluorene	3.98	20.0	--- U	--- U	--- U	--- U
57. 4-Aminobiphenyl	4.12	20.0	--- U	--- U	--- U	--- U
58. Benzyl Alcohol	4.47	20.0	--- U	--- U	--- U	--- U
59. 4-Chloroaniline	3.36	20.0	--- U	--- U	--- U	--- U
60. Chlorobenzilate	5.12	10.0	--- U	--- U	--- U	--- U
61. Diallate	2.98	10.0	--- U	--- U	--- U	--- U
62. Dibenzofuran	4.28	10.0	--- U	--- U	--- U	--- U
63. 3,3-Dichlorobenzidine	4.22	20.0	--- U	--- U	--- U	--- U
64. Dimethoate	3.98	20.0	--- U	--- U	--- U	--- U
65. P-Dimethylaminoazobenzene	2.89	10.0	--- U	--- U	--- U	--- U
66. 7,12-Dimethylbenz[a]anthracene	5.26	10.0	--- U	--- U	--- U	--- U
67. 3,3-Dimethylbenzadine	3.21	10.0	--- U	--- U	--- U	--- U
68. 1,3-Dinitrobenzene	2.89	20.0	--- U	--- U	--- U	--- U
69. Diphenylamine	5.10	10.0	--- U	--- U	--- U	--- U
70. Disulfoton	4.28	10.0	--- U	--- U	--- U	--- U
71. Famphur	3.98	20.0	--- U	--- U	--- U	--- U
72. Hexachloropropene	4.31	10.0	--- U	--- U	--- U	--- U
73. Isosafrole	2.88	10.0	--- U	--- U	--- U	--- U
74. Kepone	2.78	20.0	--- U	--- U	--- U	--- U
75. Methapyrilene	3.54	100.0	--- U	--- U	--- U	--- U
76. 3-Methylchloroanthrene	4.21	10.0	--- U	--- U	--- U	--- U
77. 2-Methylnaphthalene	3.79	10.0	--- U	--- U	--- U	--- U
78. Methyl Parathion	4.32	10.0	--- U	--- U	--- U	--- U
79. m-Cresol	3.81	10.0	--- U	--- U	--- U	--- U
80. 1,4-Naphthoquinone	4.00	10.0	--- U	--- U	--- U	--- U
81. 1-Naphthylamine	5.61	10.0	--- U	--- U	--- U	--- U
82. 2-Naphthylamine	4.62	10.0	--- U	--- U	--- U	--- U
83. 2-Nitroaniline	3.61	50.0	--- U	--- U	--- U	--- U
84. 3-Nitroaniline	4.81	50.0	--- U	--- U	--- U	--- U
85. 4-Nitroaniline	4.22	20.0	--- U	--- U	--- U	--- U
86. 5-Nitro-O-Toluidine	4.01	10.0	--- U	--- U	--- U	--- U
87. N-Nitrosodi-n-butylamine	3.63	10.0	--- U	--- U	--- U	--- U
88. N-Nitrosodiethylamine	3.83	20.0	--- U	--- U	--- U	--- U
89. N-Nitrosomethylethylamine	3.83	10.0	--- U	--- U	--- U	--- U
90. N-Nitrosopiperidine	5.19	20.0	--- U	--- U	--- U	--- U
91. N-Nitrosopyrrolidine	2.89	10.0	--- U	--- U	--- U	--- U
92. Parathion	3.12	10.0	--- U	--- U	--- U	--- U
93. Pentachlorobenzene	3.92	10.0	--- U	--- U	--- U	--- U
94. Pentachloronitrobenzene	3.71	20.0	--- U	--- U	--- U	--- U
95. Phenacetin	4.41	20.0	--- U	--- U	--- U	--- U
96. 1,4 Benzenediamine	2.99	10.0	--- U	--- U	--- U	--- U

J = Between MDL and SWSL, U = Below ALL Quantitation Limits.

Environment 1, Incorporated

Drinking Water ID: 37715
Wastewater ID: 10

P.O. BOX 7085, 114 OAKMONT DRIVE
GREENVILLE, N.C. 27835-7085

PHONE (252) 756-6208
FAX (252) 756-0633

CLIENT: JUDSON WHITEHURST (C&D LANDFILL)
C/O MR DAVID GARRETT
5105 HARBOUR TOWNE DRIVE
RALEIGH, NC 27604

CLIENT ID: 6003 A

ANALYST: CHS
DATE COLLECTED: 05/15/14
DATE EXTRACTED: 05/20/14
DATE ANALYZED: 05/30/14
DATE REPORTED: 06/10/14

REVIEWED BY:

SEMI-VOLATILE ORGANICS
EPA METHOD 8270D R4(07)

PARAMETERS, ug/l	MDL	SWSL	MW-3A	MW-8	Well #1 Shallow	Well #3 Shallow
97. Phorate	3.86	10.0	--- U	--- U	--- U	--- U
98. Pronamide	3.69	10.0	--- U	--- U	--- U	--- U
99. Safrole	4.12	10.0	--- U	--- U	--- U	--- U
100. 1,2,4,5-Tetrachlorobenzene	5.01	10.0	--- U	--- U	--- U	--- U
101. Thionazin	4.62	20.0	--- U	--- U	--- U	--- U
102. O-Toluidine	4.11	10.0	--- U	--- U	--- U	--- U
103. 1,3,5-Trinitrobenzene	3.98	10.0	--- U	--- U	--- U	--- U
104. 0,0,0-Triethyl Phosphorothioate	3.61	10.0	--- U	--- U	--- U	--- U
105. Hexachloroethane	1.49	10.0	--- U	--- U	--- U	--- U
106. Isodrin	3.11	20.0	--- U	--- U	--- U	--- U

J = Between MDL and SWSL, U = Below ALL Quantitation Limits.

Environment 1, Inc.
P.O. Box 7085, 114 Oakmont Dr.
Greenville, NC 27858

Phone (252) 756-6208 • Fax (252) 756-0633

CHAIN OF CUSTODY RECORD

CLIENT: 6003 A **Week:** 21

JUDSON WHITEHURST (C&D LANDFILL)
C/O MR DAVID GARRETT
5105 HARBOUR TOWNE DRIVE
RALEIGH NC 27604

(919) 231-1818

DISINFECTION: ☐ CHLORINE ☐ UV ☐ NONE ☐ _____

																				CHLORINE NEUTRALIZED AT COLLECTION
																				pH CHECK (LAB)
			P	P	P	P	P	P		G	G	G	G	G	G	P				CONTAINER TYPE, P/G
			A	D	A	F	A	A		E	E	A	A	A	A	A				CHEMICAL PRESERVATION
SAMPLE LOCATION	COLLECTION DATE	COLLECTION TIME	TOTAL CHLORINE, mg/l OR ug/l AT COLLECTION	TEMPERATURE, °C AT COLLECTION	# OF CONTAINERS	Field pH	Cyanide	Metals	Sulfide	Conductivity	Temperature	Field Parameter	EPA 8260B	8260 Dup. 1	EPA 8270D	8270D Dup. 1	8151A Landfill	8151A Duplicate	Field Parmeter	PARAMETERS
MW-3A	5-15-14	0840		18	10	G	G	G	G	G	G	G	G	G	G	G	G	G	G	
MW-4	5-15-14	1055		18	4	G		G		G	G	G	G	G					G	
MW-5	5-15-14	0925		21	4	G		G		G	G	G	G	G					G	
MW-6	5-15-14	1015		19	4	G		G		G	G	G	G	G					G	
MW-7	5-15-14	1035		19	4	G		G		G	G	G	G	G					G	
MW-8	5-15-14	0810		19	10	G	G	G	G	G	G	G	G	G	G	G	G	G	G	
Well #1 Shallow	5-15-14	1105		23 ~~19~~	6.5 10	G	G	G	G	G	G	G	G	G	G	G	G	G	G	
Well #2 Shallow	5-15-14	0940		23	4	G		G		G	G	G	G	G					G	
Well #3 Shallow	5-15-14	1245		23	10	G	G	G	G	G	G	G	G	G	G	G	G	G	G	

A - NONE D - NAOH
B - HNO_3 E - HCL
C - H_2SO_4 F - ZINC ACETATE/NAOH
G - NA THIOSULFATE

CLASSIFICATION:
☐ WASTEWATER (NPDES)
☐ DRINKING WATER
☐ DWQ/GW
☒ SOLID WASTE SECTION

CHAIN OF CUSTODY MAINTAINED DURING SHIPMENT/DELIVERY: (Y) N

SAMPLES COLLECTED BY: (Please Print) Bobby/Tom

SAMPLES RECEIVED IN LAB AT 1.0 °C

RELINQUISHED BY (SIG.) (SAMPLER)	DATE/TIME	RECEIVED BY (SIG.)	DATE/TIME
Bobby Tom	5-15-14 1417	[signature]	5/15/14 2:17
RELINQUISHED BY (SIG.)	DATE/TIME	RECEIVED BY (SIG.)	DATE/TIME
RELINQUISHED BY (SIG.)	DATE/TIME	RECEIVED BY (SIG.)	DATE/TIME

COMMENTS: MW-5 Damage only able to go 9' to sample 21' well Wayne was inform.

PLEASE READ Instructions for completing this form on the reverse side.

Sampler must place a "C" for composite sample or a "G" for Grab sample in the blocks above for each parameter requested.

FORM #5

No 275309

Environment 1, Incorporated

Drinking Water ID: 37715
Wastewater ID: 10

P.O. BOX 7085, 114 OAKMONT DRIVE
GREENVILLE, N.C. 27835-7085

PHONE (252) 756-6208
FAX (252) 756-0633

ID#: 6003 C

JUDSON WHITEHURST (C&D LANDFILL)
C/O MR DAVID GARRETT
5105 HARBOUR TOWNE DRIVE
RALEIGH ,NC 27604

DATE COLLECTED: 05/15/14
DATE REPORTED : 06/10/14

REVIEWED BY:

PARAMETERS	MDL	SWSL	SW-1	SW-2	SW-3	SW-4	Analysis Date	Analyst	Method Code
PH (field measurement), Units			6.1	6.7	6.1	Missing	05/15/14	BF	4500HB-00
Antimony, ug/l	0.02	6.0	--- U	--- U	--- U	Missing	05/23/14	LFJ	EPA200.8
Arsenic, ug/l	0.05	10.0	0.67 J	1.4 J	0.26 J	Missing	05/23/14	LFJ	EPA200.8
Barium, ug/l	0.06	100.0	94.3 J	72.9 J	37.9 J	Missing	05/23/14	LFJ	EPA200.8
Beryllium, ug/l	0.03	1.0	0.16 J	0.04 J	0.04 J	Missing	05/23/14	LFJ	EPA200.8
Cadmium, ug/l	0.05	1.0	0.22 J	--- U	--- U	Missing	05/23/14	LFJ	EPA200.8
Cobalt, ug/l	0.02	10.0	0.38 J	0.88 J	0.31 J	Missing	05/23/14	LFJ	EPA200.8
Copper, ug/l	0.06	10.0	2.4 J	0.46 J	0.40 J	Missing	05/23/14	LFJ	EPA200.8
Total Chromium, ug/l	0.04	10.0	1.9 J	0.95 J	0.51 J	Missing	05/23/14	LFHJ	EPA200.8
Lead, ug/l	0.02	10.0	5.2 J	0.39 J	1.2 J	Missing	05/23/14	LFJ	EPA200.8
Nickel, ug/l	0.45	50.0	0.98 J	0.89 J	--- U	Missing	05/23/14	LFJ	EPA200.8
Selenium, ug/l	0.06	10.0	--- U	--- U	--- U	Missing	05/23/14	LFJ	EPA200.8
Silver, ug/l	0.03	10.0	--- U	--- U	--- U	Missing	05/23/14	LFJ	EPA200.8
Thallium, ug/l	0.02	5.5	0.02 J	--- U	--- U	Missing	05/23/14	LFJ	EPA200.8
Vanadium, ug/l	0.07	25.0	6.0 J	0.48 J	1.2 J	Missing	05/23/14	LFJ	EPA200.8
Zinc, ug/l	0.47	10.0	9.9 J	2.3 J	2.7 J	Missing	05/23/14	LFJ	EPA200.8
Conductivity (at 25c), uMhos/cm	1.0	1.0	86	333	86	Missing	05/15/14	BF	2510B-97
Temperature, °C			23	23	26	Missing	05/15/14	BF	2550B-00
Turbidity (Field), NTU	1.0	1.0	54.3	10.7	31.9	Missing	05/15/14	BF	2130B-01

J = Between MDL and SWSL, U = Below ALL Quantitation Limits.

Environment 1, Incorporated

Drinking Water ID: 37715
Wastewater ID: 10

P.O. BOX 7085, 114 OAKMONT DRIVE
GREENVILLE, N.C. 27835-7085

PHONE (252) 756-6208
FAX (252) 756-0633

CLIENT: JUDSON WHITEHURST (C&D LANDFILL)
C/O MR DAVID GARRETT
5105 HARBOUR TOWNE DRIVE
RALEIGH, NC 27604

CLIENT ID: 6003 C

ANALYST: MAO
DATE COLLECTED: 05/15/14
DATE ANALYZED: 05/23/14
DATE REPORTED: 06/10/14

REVIEWED BY:

VOLATILE ORGANICS
EPA METHOD 8260B R1(96)

PARAMETERS, ug/l	MDL	SWSL	SW-1	SW-2	SW-3
1. Chloromethane	0.77	1.0	--- U	--- U	--- U
2. Vinyl Chloride	0.63	1.0	--- U	--- U	--- U
3. Bromomethane	0.67	10.0	--- U	--- U	--- U
4. Chloroethane	0.48	10.0	--- U	--- U	--- U
5. Trichlorofluoromethane	0.24	1.0	--- U	--- U	--- U
6. 1,1-Dichloroethene	0.17	5.0	--- U	--- U	--- U
7. Acetone	9.06	100.0	--- U	--- U	--- U
8. Iodomethane	0.26	10.0	--- U	--- U	--- U
9. Carbon Disulfide	0.23	100.0	--- U	--- U	--- U
10. Methylene Chloride	0.64	1.0	--- U	--- U	--- U
11. trans-1,2-Dichloroethene	0.23	5.0	--- U	--- U	--- U
12. 1,1-Dichloroethane	0.20	5.0	--- U	--- U	--- U
13. Vinyl Acetate	0.20	50.0	--- U	--- U	--- U
14. Cis-1,2-Dichloroethene	0.25	5.0	--- U	--- U	--- U
15. 2-Butanone	2.21	100.0	--- U	--- U	--- U
16. Bromochloromethane	0.27	3.0	--- U	--- U	--- U
17. Chloroform	0.25	5.0	--- U	--- U	--- U
18. 1,1,1-Trichloroethane	0.19	1.0	--- U	--- U	--- U
19. Carbon Tetrachloride	0.22	1.0	--- U	--- U	--- U
20. Benzene	0.24	1.0	--- U	--- U	--- U
21. 1,2-Dichloroethane	0.27	1.0	--- U	--- U	--- U
22. Trichloroethene	0.23	1.0	--- U	--- U	--- U
23. 1,2-Dichloropropane	0.21	1.0	--- U	--- U	--- U
24. Bromodichloromethane	0.21	1.0	--- U	--- U	--- U
25. Cis-1,3-Dichloropropene	0.24	1.0	--- U	--- U	--- U
26. 4-Methyl-2-Pentanone	1.19	100.0	--- U	--- U	--- U
27. Toluene	0.23	1.0	3.30	3.00	--- U
28. trans-1,3-Dichloropropene	0.28	1.0	--- U	--- U	--- U
29. 1,1,2-Trichloroethane	0.25	1.0	--- U	--- U	--- U
30. Tetrachloroethene	0.17	1.0	--- U	--- U	--- U
31. 2-Hexanone	1.57	50.0	--- U	--- U	--- U
32. Dibromochloromethane	0.24	3.0	--- U	--- U	--- U
33. 1,2-Dibromoethane	0.26	1.0	--- U	--- U	--- U
34. Chlorobenzene	0.30	3.0	--- U	--- U	--- U
35. 1,1,1,2-Tetrachloroethane	0.22	5.0	--- U	--- U	--- U
36. Ethylbenzene	0.21	1.0	--- U	--- U	--- U
37. Xylenes	0.68	5.0	--- U	--- U	--- U
38. Dibromomethane	0.28	10.0	--- U	--- U	--- U
39. Styrene	0.19	1.0	--- U	--- U	--- U
40. Bromoform	0.20	3.0	--- U	--- U	--- U
41. 1,1,2,2-Tetrachloroethane	0.26	3.0	--- U	--- U	--- U
42. 1,2,3-Trichloropropane	0.43	1.0	--- U	--- U	--- U
43. 1,4-Dichlorobenzene	0.39	1.0	--- U	--- U	--- U
44. 1,2-Dichlorobenzene	0.32	5.0	--- U	--- U	--- U
45. 1,2-Dibromo-3-Chloropropane	0.34	13.0	--- U	--- U	--- U
46. Acrylonitrile	2.72	200.0	--- U	--- U	--- U
47. trans-1,4-Dichloro-2-Butene	0.42	100.0	--- U	--- U	--- U
48. Tetrahydrofuran	0.39	1.0	--- U	--- U	--- U

J = Between MDL and SWSL, U = Below ALL Quantitation Limits.

Environment 1, Inc.
P.O. Box 7085, 114 Oakmont Dr.
Greenville, NC 27858

Phone (252) 756-6208 • Fax (252) 756-0633

CHAIN OF CUSTODY RECORD

CLIENT: 6003 C **Week:** 21

JUDSON WHITEHURST (C&D LANDFILL)
C/O MR DAVID GARRETT
5105 HARBOUR TOWNE DRIVE
RALEIGH NC 27604

(919) 231-1818

DISINFECTION: ☐ CHLORINE ☐ UV ☐ NONE ☐ _____

SAMPLE LOCATION	COLLECTION DATE	COLLECTION TIME	TOTAL CHLORINE, mg/l OR ug/l AT COLLECTION	TEMPERATURE, °C AT COLLECTION	# OF CONTAINERS	Field pH	Metals	Conductivity	Temperature	EPA 8260B	8260 Dup. 1	Field Parmeter
CHLORINE NEUTRALIZED AT COLLECTION												
pH CHECK (LAB)							12			12	12	
CONTAINER TYPE, P/G						P	P	P	P	G	G	P
CHEMICAL PRESERVATION						A	A	A	A	E	E	A
SW-1	5-15-14	1105		23	4	G	G	G	G	G	G	G
SW-2	5-15-14	0940		23	4	G	G	G	G	G	G	G
SW-3	5-15-14	1245		26	4	G	G	G	G	G	G	G
SW-4					4	G						

PARAMETERS

A - NONE D - NAOH
B - HNO_3 E - HCL
C - H_2SO_4 F - ZINC ACETATE/NAOH
G - NA THIOSULFATE

CLASSIFICATION:
☐ WASTEWATER (NPDES)
☐ DRINKING WATER
☐ DWQ/GW
☒ SOLID WASTE SECTION

CHAIN OF CUSTODY MAINTAINED DURING SHIPMENT/DELIVERY: (Y) N

SAMPLES COLLECTED BY: (Please Print) Bobby Tom

SAMPLES RECEIVED IN LAB AT 1.0 °C

RELINQUISHED BY (SIG.) (SAMPLER)	DATE/TIME	RECEIVED BY (SIG.)	DATE/TIME
Bobby Tom	5-15-14 1417	[signature]	5/15/14 1217
RELINQUISHED BY (SIG.)	DATE/TIME	RECEIVED BY (SIG.)	DATE/TIME
RELINQUISHED BY (SIG.)	DATE/TIME	RECEIVED BY (SIG.)	DATE/TIME

COMMENTS: SW-4 DRY

PLEASE READ Instructions for completing this form on the reverse side.

Sampler must place a "C" for composite sample or a "G" for Grab sample in the blocks above for each parameter requested.

FORM #5

Nº 275308

Environment 1, Incorporated

Drinking Water ID: 37715
Wastewater ID: 10

P.O. BOX 7085, 114 OAKMONT DRIVE
GREENVILLE, N.C. 27835-7085

PHONE (252) 756-6208
FAX (252) 756-0633

ID#: 6003 E

JUDSON WHITEHURST (C&D LANDFILL)
C/O MR DAVID GARRETT
5105 HARBOUR TOWNE DRIVE
RALEIGH ,NC 27604

DATE COLLECTED: 05/15/14
DATE REPORTED : 06/10/14

REVIEWED BY:

PARAMETERS	MDL	SWSL	MW-9A	MW-10	MW-11	MW-13	MW-12s	Analysis Date	Analyst	Method Code
PH (field measurement), Units			7.3	5.6	7.3	5.8	6.3	05/15/14	BF	4500HB-00
Cyanide, ug/l	5.0	10.0					--- U	05/28/14	SEJ	4500CNE-99
Antimony, ug/l	0.02	6.0	--- U	--- U	--- U	--- U	0.10 J	05/23/14	LFJ	EPA200.8
Arsenic, ug/l	0.05	10.0	--- U	--- U	--- U	--- U	11	05/23/14	LFJ	EPA200.8
Barium, ug/l	0.06	100.0	29.3 J	58.9 J	18.3 J	52.4 J	368	05/23/14	LFJ	EPA200.8
Beryllium, ug/l	0.03	1.0	--- U	0.04 J	0.03 J	0.04 J	0.03 J	05/23/14	LFJ	EPA200.8
Cadmium, ug/l	0.05	1.0	1.00	0.17 J	0.25 J	1	0.09 J	05/23/14	LFJ	EPA200.8
Cobalt, ug/l	0.02	10.0	0.05 J	0.44 J	0.19 J	0.32 J	0.82 J	05/23/14	LFJ	EPA200.8
Copper, ug/l	0.06	10.0	0.67 J	0.38 J	0.37 J	1.0 J	0.63 J	05/23/14	LFJ	EPA200.8
Total Chromium, ug/l	0.04	10.0	--- U	0.83 J	0.20 J	0.46 J	9.0 J	05/23/14	LFHJ	EPA200.8
Lead, ug/l	0.02	10.0	0.07 J	0.10 J	0.04 J	0.40 J	--- U	05/23/14	LFJ	EPA200.8
Mercury, ug/l	0.01	0.20					--- U	05/30/14	MTM	245.1 R3-94
Nickel, ug/l	0.45	50.0	1.3 J	1.0 J	2.7 J	1.2 J	5.9 J	05/23/14	LFJ	EPA200.8
Selenium, ug/l	0.06	10.0	--- U	--- U	--- U	--- U	1.3 J	05/23/14	LFJ	EPA200.8
Silver, ug/l	0.03	10.0	--- U	--- U	--- U	--- U	--- U	05/23/14	LFJ	EPA200.8
Thallium, ug/l	0.02	5.5	--- U	--- U	--- U	--- U	--- U	05/23/14	LFJ	EPA200.8
Tin, ug/l	0.06	100.0					--- U	05/23/14	LFJ	EPA200.8
Vanadium, ug/l	0.07	25.0	--- U	2.9 J	--- U	1.4 J	4.1 J	05/23/14	LFJ	EPA200.8
Zinc, ug/l	0.47	10.0	3.4 J	1.3 J	1.3 J	2.4 J	2.0 J	05/23/14	LFJ	EPA200.8
Sulfide, ug/l	100	1000					230 J	05/21/14	LFJ	4500S2D-00
Conductivity (at 25c), uMhos/cm	1.0	1.0	349	434	826	253	1694	05/15/14	BF	2510B-97
Temperature, °C			19	21	23	20	20	05/15/14	BF	2550B-00
Turbidity (Field), NTU	1.0	1.0	30.3	19.8	1.95	13.0	3.39	05/15/14	BF	2130B-01

J = Between MDL and SWSL, U = Below ALL Quantitation Limits.

Environment 1, Incorporated

Drinking Water ID: 37715
Wastewater ID: 10

P.O. BOX 7085, 114 OAKMONT DRIVE
GREENVILLE, N.C. 27835-7085

PHONE (252) 756-6208
FAX (252) 756-0633

ID#: 6003 E

JUDSON WHITEHURST (C&D LANDFILL)
C/O MR DAVID GARRETT
5105 HARBOUR TOWNE DRIVE
RALEIGH ,NC 27604

DATE COLLECTED: 05/15/14
DATE REPORTED : 06/10/14

REVIEWED BY:

PARAMETERS	MDL	SWSL	MW-14S	Trip Blank	Analysis Date	Analyst	Method Code
PH (field measurement), Units			5.9		05/15/14	BF	4500HB-00
Antimony, ug/l	0.02	6.0	0.17 J		05/23/14	LFJ	EPA200.8
Arsenic, ug/l	0.05	10.0	0.30 J		05/23/14	LFJ	EPA200.8
Barium, ug/l	0.06	100.0	90.9 J		05/23/14	LFJ	EPA200.8
Beryllium, ug/l	0.03	1.0	0.03 J		05/23/14	LFJ	EPA200.8
Cadmium, ug/l	0.05	1.0	2		05/23/14	LFJ	EPA200.8
Cobalt, ug/l	0.02	10.0	0.24 J		05/23/14	LFJ	EPA200.8
Copper, ug/l	0.06	10.0	1.8 J		05/23/14	LFJ	EPA200.8
Total Chromium, ug/l	0.04	10.0	2.1 J		05/23/14	LFHJ	EPA200.8
Lead, ug/l	0.02	10.0	0.42 J		05/23/14	LFJ	EPA200.8
Nickel, ug/l	0.45	50.0	1.6 J		05/23/14	LFJ	EPA200.8
Selenium, ug/l	0.06	10.0	--- U		05/23/14	LFJ	EPA200.8
Silver, ug/l	0.03	10.0	--- U		05/23/14	LFJ	EPA200.8
Thallium, ug/l	0.02	5.5	0.13 J		05/23/14	LFJ	EPA200.8
Vanadium, ug/l	0.07	25.0	1.4 J		05/23/14	LFJ	EPA200.8
Zinc, ug/l	0.47	10.0	2.6 J		05/23/14	LFJ	EPA200.8
Conductivity (at 25c), uMhos/cm	1.0	1.0	562		05/15/14	BF	2510B-97
Temperature, °C			19		05/15/14	BF	2550B-00
Turbidity (Field), NTU	1.0	1.0	3.03		05/15/14	BF	2130B-01

J = Between MDL and SWSL, U = Below ALL Quantitation Limits.

Environment 1, Incorporated

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Wastewater ID: 10

P.O. BOX 7085, 114 OAKMONT DRIVE
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PHONE (252) 756-6208
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CLIENT: JUDSON WHITEHURST (C&D LANDFILL)
C/O MR DAVID GARRETT
5105 HARBOUR TOWNE DRIVE
RALEIGH, NC 27604

CLIENT ID: 6003 E

ANALYST: CHS
DATE COLLECTED: 05/15/14
DATE EXTRACTED: 05/21/14
DATE ANALYZED: 05/29/14
DATE REPORTED: 06/10/14

REVIEWED BY:

LANDFILL APPENDIX II
EPA METHOD 8151A R1(96)

PARAMETERS, ug/l	MDL	SWSL	MW-12s
1. 2,4-D	0.36	2.0	--- U
2. Dinoseb	0.54	1.0	--- U
3. 2,4,5-TP	0.42	2.0	--- U
4. 2,4,5-T	0.47	2.0	--- U

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CLIENT: JUDSON WHITEHURST (C&D LANDFILL)
C/O MR DAVID GARRETT
5105 HARBOUR TOWNE DRIVE
RALEIGH, NC 27604

CLIENT ID: 6003 E

ANALYST: MAO
DATE COLLECTED: 05/15/14
DATE REPORTED: 06/10/14

REVIEWED BY:

VOLATILE ORGANICS
EPA METHOD 8260B R1(96)

PARAMETERS, ug/l	MDL	SWSL	05/23/14 MW-9A	05/23/14 MW-10	05/23/14 MW-11	05/24/14 MW-13	05/24/14 MW-12s
Date Analyzed:							
1. Chloromethane	0.77	1.0	--- U	--- U	--- U	--- U	--- U
2. Vinyl Chloride	0.63	1.0	--- U	--- U	--- U	--- U	1.10
3. Bromomethane	0.67	10.0	--- U	--- U	--- U	--- U	--- U
4. Chloroethane	0.48	10.0	--- U	--- U	--- U	--- U	--- U
5. Trichlorofluoromethane	0.24	1.0	--- U	--- U	--- U	--- U	--- U
6. 1,1-Dichloroethene	0.17	5.0	--- U	--- U	--- U	--- U	--- U
7. Acetone	9.06	100.0	--- U	--- U	--- U	--- U	--- U
8. Iodomethane	0.26	10.0	--- U	--- U	--- U	--- U	--- U
9. Carbon Disulfide	0.23	100.0	--- U	--- U	--- U	--- U	--- U
10. Methylene Chloride	0.64	1.0	--- U	--- U	--- U	--- U	--- U
11. trans-1,2-Dichloroethene	0.23	5.0	--- U	--- U	--- U	--- U	--- U
12. 1,1-Dichloroethane	0.20	5.0	--- U	--- U	--- U	--- U	--- U
13. Vinyl Acetate	0.20	50.0	--- U	--- U	--- U	--- U	--- U
14. Cis-1,2-Dichloroethene	0.25	5.0	--- U	--- U	--- U	--- U	0.70 J
15. 2-Butanone	2.21	100.0	--- U	--- U	--- U	--- U	--- U
16. Bromochloromethane	0.27	3.0	--- U	--- U	--- U	--- U	--- U
17. Chloroform	0.25	5.0	--- U	--- U	--- U	--- U	--- U
18. 1,1,1-Trichloroethane	0.19	1.0	--- U	--- U	--- U	--- U	--- U
19. Carbon Tetrachloride	0.22	1.0	--- U	--- U	--- U	--- U	--- U
20. Benzene	0.24	1.0	--- U	--- U	--- U	--- U	0.40 J
21. 1,2-Dichloroethane	0.27	1.0	--- U	--- U	--- U	--- U	--- U
22. Trichloroethene	0.23	1.0	--- U	--- U	--- U	--- U	--- U
23. 1,2-Dichloropropane	0.21	1.0	--- U	--- U	--- U	--- U	--- U
24. Bromodichloromethane	0.21	1.0	--- U	--- U	--- U	--- U	--- U
25. Cis-1,3-Dichloropropene	0.24	1.0	--- U	--- U	--- U	--- U	--- U
26. 4-Methyl-2-Pentanone	1.19	100.0	--- U	--- U	--- U	--- U	--- U
27. Toluene	0.23	1.0	--- U	--- U	--- U	--- U	--- U
28. trans-1,3-Dichloropropene	0.28	1.0	--- U	--- U	--- U	--- U	--- U
29. 1,1,2-Trichloroethane	0.25	1.0	--- U	--- U	--- U	--- U	--- U
30. Tetrachloroethene	0.17	1.0	--- U	--- U	--- U	--- U	--- U
31. 2-Hexanone	1.57	50.0	--- U	--- U	--- U	--- U	--- U
32. Dibromochloromethane	0.24	3.0	--- U	--- U	--- U	--- U	--- U
33. 1,2-Dibromoethane	0.26	1.0	--- U	--- U	--- U	--- U	--- U
34. Chlorobenzene	0.30	3.0	--- U	--- U	--- U	--- U	--- U
35. 1,1,1,2-Tetrachloroethane	0.22	5.0	--- U	--- U	--- U	--- U	--- U
36. Ethylbenzene	0.21	1.0	--- U	--- U	--- U	--- U	--- U
37. Xylenes	0.68	5.0	--- U	--- U	--- U	--- U	--- U
38. Dibromomethane	0.28	10.0	--- U	--- U	--- U	--- U	--- U
39. Styrene	0.19	1.0	--- U	--- U	--- U	--- U	--- U
40. Bromoform	0.20	3.0	--- U	--- U	--- U	--- U	--- U
41. 1,1,2,2-Tetrachloroethane	0.26	3.0	--- U	--- U	--- U	--- U	--- U
42. 1,2,3-Trichloropropane	0.43	1.0	--- U	--- U	--- U	--- U	--- U
43. 1,4-Dichlorobenzene	0.39	1.0	--- U	--- U	--- U	--- U	--- U
44. 1,2-Dichlorobenzene	0.32	5.0	--- U	--- U	--- U	--- U	--- U
45. 1,2-Dibromo-3-Chloropropane	0.34	13.0	--- U	--- U	--- U	--- U	--- U
46. Acrylonitrile	2.72	200.0	--- U	--- U	--- U	--- U	--- U
47. trans-1,4-Dichloro-2-Butene	0.42	100.0	--- U	--- U	--- U	--- U	--- U

J = Between MDL and SWSL, U = Below ALL Quantitation Limits.

Environment 1, Incorporated

Drinking Water ID: 37715
Wastewater ID: 10

P.O. BOX 7085, 114 OAKMONT DRIVE
GREENVILLE, N.C. 27835-7085

PHONE (252) 756-6208
FAX (252) 756-0633

CLIENT: JUDSON WHITEHURST (C&D LANDFILL)
C/O MR DAVID GARRETT
5105 HARBOUR TOWNE DRIVE
RALEIGH, NC 27604

CLIENT ID: 6003 E

ANALYST: MAO
DATE COLLECTED: 05/15/14
DATE REPORTED: 06/10/14

REVIEWED BY: _____

VOLATILE ORGANICS
EPA METHOD 8260B R1(96)

PARAMETERS, ug/l	MDL	SWSL	05/23/14 MW-9A	05/23/14 MW-10	05/23/14 MW-11	05/24/14 MW-13	05/24/14 MW-12s
48. Tetrahydrofuran	0.39	1.0	--- U	--- U	--- U	--- U	5.50

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CLIENT ID: 6003 E

ANALYST: MAO
DATE COLLECTED: 05/15/14
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REVIEWED BY:

VOLATILE ORGANICS
EPA METHOD 8260B R1(96)

PARAMETERS, ug/l	Date Analyzed: MDL	SWSL	05/24/14 MW-14S	05/27/14 Trip Blank
1. Chloromethane	0.77	1.0	--- U	--- U
2. Vinyl Chloride	0.63	1.0	--- U	--- U
3. Bromomethane	0.67	10.0	--- U	--- U
4. Chloroethane	0.48	10.0	--- U	--- U
5. Trichlorofluoromethane	0.24	1.0	--- U	--- U
6. 1,1-Dichloroethene	0.17	5.0	--- U	--- U
7. Acetone	9.06	100.0	--- U	9.40 J
8. Iodomethane	0.26	10.0	--- U	--- U
9. Carbon Disulfide	0.23	100.0	--- U	--- U
10. Methylene Chloride	0.64	1.0	--- U	--- U
11. trans-1,2-Dichloroethene	0.23	5.0	--- U	--- U
12. 1,1-Dichloroethane	0.20	5.0	--- U	--- U
13. Vinyl Acetate	0.20	50.0	--- U	--- U
14. Cis-1,2-Dichloroethene	0.25	5.0	0.30 J	--- U
15. 2-Butanone	2.21	100.0	--- U	--- U
16. Bromochloromethane	0.27	3.0	--- U	--- U
17. Chloroform	0.25	5.0	--- U	--- U
18. 1,1,1-Trichloroethane	0.19	1.0	--- U	--- U
19. Carbon Tetrachloride	0.22	1.0	--- U	--- U
20. Benzene	0.24	1.0	--- U	--- U
21. 1,2-Dichloroethane	0.27	1.0	--- U	--- U
22. Trichloroethene	0.23	1.0	--- U	--- U
23. 1,2-Dichloropropane	0.21	1.0	--- U	--- U
24. Bromodichloromethane	0.21	1.0	--- U	--- U
25. Cis-1,3-Dichloropropene	0.24	1.0	--- U	--- U
26. 4-Methyl-2-Pentanone	1.19	100.0	--- U	--- U
27. Toluene	0.23	1.0	--- U	--- U
28. trans-1,3-Dichloropropene	0.28	1.0	--- U	--- U
29. 1,1,2-Trichloroethane	0.25	1.0	--- U	--- U
30. Tetrachloroethene	0.17	1.0	--- U	--- U
31. 2-Hexanone	1.57	50.0	--- U	--- U
32. Dibromochloromethane	0.24	3.0	--- U	--- U
33. 1,2-Dibromoethane	0.26	1.0	--- U	--- U
34. Chlorobenzene	0.30	3.0	--- U	--- U
35. 1,1,1,2-Tetrachloroethane	0.22	5.0	--- U	--- U
36. Ethylbenzene	0.21	1.0	--- U	--- U
37. Xylenes	0.68	5.0	--- U	--- U
38. Dibromomethane	0.28	10.0	--- U	--- U
39. Styrene	0.19	1.0	--- U	--- U
40. Bromoform	0.20	3.0	--- U	--- U
41. 1,1,2,2-Tetrachloroethane	0.26	3.0	--- U	--- U
42. 1,2,3-Trichloropropane	0.43	1.0	--- U	--- U
43. 1,4-Dichlorobenzene	0.39	1.0	--- U	--- U
44. 1,2-Dichlorobenzene	0.32	5.0	--- U	--- U
45. 1,2-Dibromo-3-Chloropropane	0.34	13.0	--- U	--- U
46. Acrylonitrile	2.72	200.0	--- U	--- U
47. trans-1,4-Dichloro-2-Butene	0.42	100.0	--- U	--- U

J = Between MDL and SWSL, U = Below ALL Quantitation Limits.

Environment 1, Incorporated

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Wastewater ID: 10

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GREENVILLE, N.C. 27835-7085

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CLIENT: JUDSON WHITEHURST (C&D LANDFILL)
C/O MR DAVID GARRETT
5105 HARBOUR TOWNE DRIVE
RALEIGH, NC 27604

CLIENT ID: 6003 E

ANALYST: MAO
DATE COLLECTED: 05/15/14
DATE REPORTED: 06/10/14

REVIEWED BY:

VOLATILE ORGANICS
EPA METHOD 8260B R1(96)

PARAMETERS, ug/l	Date Analyzed: MDL	SWSL	05/24/14 MW-14S	05/27/14 Trip Blank
48. Tetrahydrofuran	0.39	1.0	0.80 J	--- U

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5105 HARBOUR TOWNE DRIVE
RALEIGH, NC 27604

CLIENT ID: 6003 E

ANALYST: CHS
DATE COLLECTED: 05/15/14
DATE EXTRACTED: 05/20/14
DATE ANALYZED: 05/30/14
DATE REPORTED: 06/10/14

REVIEWED BY:

SEMI-VOLATILE ORGANICS
EPA METHOD 8270D R4(07)

PARAMETERS, ug/l	MDL	SWSL	MW-12s
1. Acenaphthene	2.66	10.0	--- U
2. Acenaphthylene	2.60	10.0	--- U
3. Anthracene	2.97	10.0	--- U
4. Benzo[a]antrhacene	4.16	10.0	--- U
5. Benzo[b]fluoranthene	3.32	10.0	--- U
6. Benzo[k]fluoranthene	4.23	10.0	--- U
7. Benzo[g,h,i]perylene	2.61	10.0	--- U
8. Benzo[a]pyrene	3.27	10.0	--- U
9. 4-Bromophenyl Phenyl Ether	2.63	10.0	--- U
10. Butyl Benzyl Phthalate	5.78	10.0	--- U
11. Bis-(2-Chloroethoxy) Methane	3.14	10.0	--- U
12. Bis-(2-Chloroethyl) Ether	2.58	10.0	--- U
13. Bis-(2-Chloroisopropyl) Ether	2.58	10.0	--- U
14. 2-Chloronaphthalene	2.17	10.0	--- U
15. 4-Chlorophenyl Phenyl Ether	2.42	10.0	--- U
16. Chrysene	4.04	10.0	--- U
17. Dibenzo[a,h]anthracene	2.78	10.0	--- U
18. Di-N-Butyl Phthalate	3.09	10.0	--- U
19. Dimethyl Phthalate	3.78	10.0	--- U
20. Diethyl Phthalate	3.92	10.0	--- U
21. 2,4-Dinitrotoluene	3.95	10.0	--- U
22. 2,6-Dinitrotoluene	3.88	10.0	--- U
23. Di-N-Octyl Phthalate	2.81	10.0	--- U
24. Bis-(2-Ethylhexyl) Phthalate	9.97	15.0	--- U
25. Fluoranthene	3.92	10.0	--- U
26. Fluorene	2.95	10.0	--- U
27. Hexachlorobenzene	2.61	10.0	--- U
28. Hexachlorocyclopentadiene	4.16	10.0	--- U
29. Indeno[1,2,3-Cd]pyrene	2.91	10.0	--- U
30. Isophorone	3.74	10.0	--- U
31. Nitrobenzene	2.85	10.0	--- U
32. N-Nitrosodimethylamine	4.25	10.0	--- U
33. N-Nitrosodiphenylamine	3.95	10.0	--- U
34. N-Nitrosodi-N-Propylamine	4.06	10.0	--- U
35. Phenanthrene	3.24	10.0	--- U
36. Pyrene	3.63	10.0	--- U
37. 4-Chloro-3-Methylphenol	3.79	20.0	--- U
38. 2-Chlorophenol	2.75	10.0	--- U
39. O-Cresol	3.68	10.0	--- U
40. P-Cresol	4.12	10.0	--- U
41. 2,4-Dichlorophenol	5.19	10.0	--- U
42. 2,6-Dichlorophenol	4.89	10.0	--- U
43. 2,4-Dimethylphenol	3.21	10.0	--- U
44. 4,6-Dinitro-2-Methylphenol	4.77	50.0	--- U
45. 2,4-Dinitrophenol	4.37	50.0	--- U
46. Ethyl Methanesulfonate	5.26	20.0	--- U
47. Methyl Methanesulfonate	4.92	10.0	--- U
48. 2-Nitrophenol	3.64	10.0	--- U

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C/O MR DAVID GARRETT
5105 HARBOUR TOWNE DRIVE
RALEIGH, NC 27604

CLIENT ID: 6003 E

ANALYST: CHS
DATE COLLECTED: 05/15/14
DATE EXTRACTED: 05/20/14
DATE ANALYZED: 05/30/14
DATE REPORTED: 06/10/14

REVIEWED BY:

SEMI-VOLATILE ORGANICS
EPA METHOD 8270D R4(07)

PARAMETERS, ug/l	MDL	SWSL	MW-12s
49. 4-Nitrophenol	3.17	50.0	--- U
50. Pentachlorophenol	5.33	25.0	--- U
51. Phenol	1.86	10.0	--- U
52. 2,3,4,6-Tetrachlorophenol	3.12	10.0	--- U
53. 2,4,5-Trichlorophenol	4.17	10.0	--- U
54. 2,4,6-Trichlorophenol	3.84	10.0	--- U
55. Acetophenone	2.89	10.0	--- U
56. 2-Acetylaminofluorene	3.98	20.0	--- U
57. 4-Aminobiphenyl	4.12	20.0	--- U
58. Benzyl Alcohol	4.47	20.0	--- U
59. 4-Chloroaniline	3.36	20.0	--- U
60. Chlorobenzilate	5.12	10.0	--- U
61. Diallate	2.98	10.0	--- U
62. Dibenzofuran	4.28	10.0	--- U
63. 3,3-Dichlorobenzidine	4.22	20.0	--- U
64. Dimethoate	3.98	20.0	--- U
65. P-Dimethylaminoazobenzene	2.89	10.0	--- U
66. 7,12-Dimethylbenz[a]anthracene	5.26	10.0	--- U
67. 3,3-Dimethylbenzadine	3.21	10.0	--- U
68. 1,3-Dinitrobenzene	2.89	20.0	--- U
69. Diphenylamine	5.10	10.0	--- U
70. Disulfoton	4.28	10.0	--- U
71. Famphur	3.98	20.0	--- U
72. Hexachloropropene	4.31	10.0	--- U
73. Isosafrole	2.88	10.0	--- U
74. Kepone	2.78	20.0	--- U
75. Methapyrilene	3.54	100.0	--- U
76. 3-Methylchloroanthrene	4.21	10.0	--- U
77. 2-Methylnaphthalene	3.79	10.0	--- U
78. Methyl Parathion	4.32	10.0	--- U
79. m-Cresol	3.81	10.0	--- U
80. 1,4-Naphthoquinone	4.00	10.0	--- U
81. 1-Naphthylamine	5.61	10.0	--- U
82. 2-Naphthylamine	4.62	10.0	--- U
83. 2-Nitroaniline	3.61	50.0	--- U
84. 3-Nitroaniline	4.81	50.0	--- U
85. 4-Nitroaniline	4.22	20.0	--- U
86. 5-Nitro-O-Toluidine	4.01	10.0	--- U
87. N-Nitrosodi-n-butylamine	3.63	10.0	--- U
88. N-Nitrosodiethylamine	3.83	20.0	--- U
89. N-Nitrosomethylethylamine	3.83	10.0	--- U
90. N-Nitrosopiperidine	5.19	20.0	--- U
91. N-Nitrosopyrrolidine	2.89	10.0	--- U
92. Parathion	3.12	10.0	--- U
93. Pentachlorobenzene	3.92	10.0	--- U
94. Pentachloronitrobenzene	3.71	20.0	--- U
95. Phenacetin	4.41	20.0	--- U
96. 1,4 Benzenediamine	2.99	10.0	--- U

J = Between MDL and SWSL, U = Below ALL Quantitation Limits.

Environment 1, Incorporated

Drinking Water ID: 37715
Wastewater ID: 10

P.O. BOX 7085, 114 OAKMONT DRIVE
GREENVILLE, N.C. 27835-7085

PHONE (252) 756-6208
FAX (252) 756-0633

CLIENT: JUDSON WHITEHURST (C&D LANDFILL)
C/O MR DAVID GARRETT
5105 HARBOUR TOWNE DRIVE
RALEIGH, NC 27604

CLIENT ID: 6003 E

ANALYST: CHS
DATE COLLECTED: 05/15/14
DATE EXTRACTED: 05/20/14
DATE ANALYZED: 05/30/14
DATE REPORTED: 06/10/14

REVIEWED BY:

SEMI-VOLATILE ORGANICS
EPA METHOD 8270D R4(07)

PARAMETERS, ug/l	MDL	SWSL	MW-12s
97. Phorate	3.86	10.0	--- U
98. Pronamide	3.69	10.0	--- U
99. Safrole	4.12	10.0	--- U
100. 1,2,4,5-Tetrachlorobenzene	5.01	10.0	--- U
101. Thionazin	4.62	20.0	--- U
102. O-Toluidine	4.11	10.0	--- U
103. 1,3,5-Trinitrobenzene	3.98	10.0	--- U
104. 0,0,0-Triethyl Phosphorothioate	3.61	10.0	--- U
105. Hexachloroethane	1.49	10.0	--- U
106. Isodrin	3.11	20.0	--- U

J = Between MDL and SWSL, U = Below ALL Quantitation Limits.

Environment 1, Inc.
P.O. Box 7085, 114 Oakmont Dr.
Greenville, NC 27858

Phone (252) 756-6208 • Fax (252) 756-0633

CHAIN OF CUSTODY RECORD

CLIENT: 6003 E **Week:** 21

JUDSON WHITEHURST (C&D LANDFILL)
C/O MR DAVID GARRETT
5105 HARBOUR TOWNE DRIVE
RALEIGH NC 27604

(919) 231-1818

DISINFECTION: ☐ CHLORINE ☐ UV ☐ NONE ☐

CHLORINE NEUTRALIZED AT COLLECTION																			>12		
pH CHECK (LAB)																			<2	>9	12 12 12
CONTAINER TYPE, P/G			P	P	P	P	P	P	G	G	G	G	G	G	G	P					
CHEMICAL PRESERVATION			A	D	A	F	A	A	E	E	E	A	A	A	A	A					
SAMPLE LOCATION	COLLECTION DATE	COLLECTION TIME	TOTAL CHLORINE, mg/l OR ug/l AT COLLECTION	TEMPERATURE, °C AT COLLECTION	# OF CONTAINERS	Field pH	Cyanide	Metals	Sulfide	Conductivity	Temperature	EPA 8260B	8260 Dup. 1	8260 Dup. 2	EPA 8270D	8270D Dup. 1	8151A Landfill	8151A Duplicate	Field Parmeter		
MW-9A	5-15-14	1310		19	5	G		G		G	G	G	G	G					G		
MW-10	5-15-14	1125		21	4	G		G		G	G	G	G						G		
MW-11	5-15-14	1140		23	4	G		G		G	G	G	G						G		
MW-13	5-15-14	1215		20	4	G		G		G	G	G	G						G		
MW-12s	5-15-14	1200		20	10	G	G	G	G	G	G	G	G		G	G	G	G	G		
MW-14S	5-15-14	1235		19	4	G		G		G	G	G	G						G		
Trip Blank	5-15-14				2							G	G								

PARAMETERS

A - NONE D - NAOH
B - HNO_3 E - HCL
C - H_2SO_4 F - ZINC ACETATE/NAOH
G - NA THIOSULFATE

CLASSIFICATION:
☐ WASTEWATER (NPDES)
☐ DRINKING WATER
☐ DWQ/GW
☒ SOLID WASTE SECTION

CHAIN OF CUSTODY MAINTAINED DURING SHIPMENT/DELIVERY: (Y) N

SAMPLES COLLECTED BY: (Please Print) Bobby / Tom

SAMPLES RECEIVED IN LAB AT 1.0 °C

RELINQUISHED BY (SIG.) (SAMPLER)	DATE/TIME	RECEIVED BY (SIG.)	DATE/TIME
Bobby Tom	5-15-14 1417	[signature]	5/15/14 217
RELINQUISHED BY (SIG.)	DATE/TIME	RECEIVED BY (SIG.)	DATE/TIME
RELINQUISHED BY (SIG.)	DATE/TIME	RECEIVED BY (SIG.)	DATE/TIME

COMMENTS:

PLEASE READ Instructions for completing this form on the reverse side.

Sampler must place a "C" for composite sample or a "G" for Grab sample in the blocks above for each parameter requested.

FORM #5

NO 275305

ATTACHMENT 2

Environmental Monitoring Reporting Form and

Electronic Data Deliverable (EDD; Electronic File Only)

DENR USE ONLY: ☐ Paper Report ☐ Electronic Data - Email CD (data loaded: Yes / No) Doc/Event #:

NC DENR
Division of Waste Management - Solid Waste

Environmental Monitoring Reporting Form

Notice: This form and any information attached to it are "Public Records" as defined in NC General Statute 132-1. As such, these documents are available for inspection and examination by any person upon request (NC General Statute 132-6).

Instructions:

- **Prepare one form for each individually monitored unit.**
- **Please type or print legibly.**
- Attach a notification table with values that attain or exceed NC 2L groundwater standards or NC 2B surface water standards. The notification must include a preliminary analysis of the cause and significance of each value. (e.g. naturally occurring, off-site source, pre-existing condition, etc.).
- Attach a notification table of any groundwater or surface water values that equal or exceed the reporting limits.
- Attach a notification table of any methane gas values that attain or exceed explosive gas levels. This includes any structures on or nearby the facility (NCAC 13B .1629 (4)(a)(i).
- Send the original signed and sealed form, any tables, and Electronic Data Deliverable to: Compliance Unit, NCDENR-DWM, Solid Waste Section, 1646 Mail Service Center, Raleigh, NC 27699-1646.

Solid Waste Monitoring Data Submittal Information

Name of entity submitting data (laboratory, consultant, facility owner):

SCS Engineers

Contact for questions about data formatting. Include data preparer's name, telephone number and E-mail address:

Name: Marta VanDussen Phone: 828-285-8951

E-mail: mvandussen@scsengineers.com

Facility name:	Facility Address:	Facility Permit #	NC Landfill Rule: (.0500 or .1600)	Actual sampling dates (e.g., October 20-24, 2006)
C&D Landfill Phases 1 & 2	802 Recycling Lane, Greenville, Pitt County, North Carolina	74-07	.0500	May 15, 2014

Environmental Status: (Check all that apply)

☐ Initial/Background Monitoring ☒ Detection Monitoring ☒ Assessment Monitoring ☐ Corrective Action

Type of data submitted: (Check all that apply)

☒ Groundwater monitoring data from monitoring wells
☐ Groundwater monitoring data from private water supply wells
☐ Leachate monitoring data
☒ Surface water monitoring data
☐ Methane gas monitoring data
☐ Corrective action data (specify) _____
☐ Other(specify) _____

Notification attached?

☐ No. No groundwater or surface water standards were exceeded.
☒ Yes, a notification of values exceeding a groundwater or surface water standard is attached. It includes a list of groundwater and surface water monitoring points, dates, analytical values, NC 2L groundwater standard, NC 2B surface water standard or NC Solid Waste GWPS and preliminary analysis of the cause and significance of any concentration.
☐ Yes, a notification of values exceeding an explosive methane gas limit is attached. It includes the methane monitoring points, dates, sample values and explosive methane gas limits.

Certification

To the best of my knowledge, the information reported and statements made on this data submittal and attachments are true and correct. Furthermore, I have attached complete notification of any sampling values meeting or exceeding groundwater standards or explosive gas levels, and a preliminary analysis of the cause and significance of concentrations exceeding groundwater standards. I am aware that there are significant penalties for making any false statement, representation, or certification including the possibility of a fine and imprisonment.

David Garrett P.G. 919-418-4375

Facility Representative Name (Print) Title (Area Code) Telephone Number

Digitally signed by dgarrett@scsengineers.com
DN: cn=dgarrett@scsengineers.com
Date: 2014.09.09 21:59:49 -04'00'

9/10/2014

Signature Date

Affix NC Licensed/ Professional Geologist Seal

NORTH CAROLINA LICENSED SEAL 982 GEOLOGIST DAVID GARRETT

322 Chapanoke Road, Suite 101, Raleigh, North Carolina 27603

Facility Representative Address

NC PE Firm License Number (if applicable effective May 1, 2009)

Revised 6/2009