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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).
- In accordance with NC General Statutes Chapter 89C and 89E and NC Solid Waste Management Rules 15A NCAC 13B, be sure to affix a seal to the bottom of this page, when applicable.
- 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):

Brian S. Boutin, PG

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

Name: Brian S. Boutin, PG Phone: 919-366-3663 (office); 919-995-0363 (cell)

E-mail: bboutinpg@bellsouth.net

Facility name:	Facility Address:	Facility Permit #	NC Landfill Rule: (.0500 or .1600)	Actual sampling dates (e.g., October 20-24, 2006)
C&D Landfill, Inc. Phase 1	802 Recycling Lane Greenville, NC 27834-9807	74-07	.0500	August 10-11, 2009

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.

Brian S. Boutin, PG — Facility Representative Name (Print)

Consultant for Facility — Title

919-366-3663 (office); 919-995-0363 (cell) — (Area Code) Telephone Number

Signature

November 20, 2009 — Date

Affix NC Licensed/ Professional Geologist/Engineer Seal here:

NORTH CAROLINA LICENSED SEAL 1288 GEOLOGIST BRIAN S. BOUTIN

Revised 01/2007

Explanatory Text for Notification Table
C&D Landfill, Inc., Phase 1
Greenville, Pitt County, NC
Permit # 74-07
August 10-11, 2009 Assessment Monitoring

The results of the August 2009 assessment monitoring indicate that benzene in the groundwater sample collected from monitoring well MW-3s, alpha-BHC and cobalt in the groundwater samples from MW-3A, MW-3s and MW-8, as well as beta-BHC in the groundwater sample from MW-8 were the only constituents reported in groundwater samples collected from the site at concentrations that exceed the corresponding 15A NCAC 2L groundwater quality standard or Solid Waste Section groundwater protection standard. Various other volatile organic compounds, semi-volatile organic compounds and pesticides were also reported in the groundwater samples from monitoring wells MW-3A, MW-3s and MW-8 at concentrations well below the applicable 15A NCAC 2L .0202 Class GA groundwater quality standards or Solid Waste Section groundwater protection standards.

The apparent extent of groundwater impact from constituents exceeding applicable groundwater quality standards appears to be limited to an area between monitoring well MW-8 and monitoring wells MW-3s and MW-3A. No constituents were reported at concentrations exceeding the applicable standards at wells outside of this limited area.

The pesticides reported in the groundwater samples are likely remnants from the past agricultural use of the property and not likely associated with the operation of the C&D landfill. Benzene is a constituent of refined petroleum fuels such as gasoline and diesel. The limited extent of benzene in groundwater and the location of apparent impact relative to the landfill indicate that the presence of benzene in groundwater is most likely a relic of previous activities and NOT related to waste disposed in the landfill. It is noted that a hunting stand was formerly located near monitoring well MW-3s, where the reported concentration of benzene is highest. It is possible that a small fuel spill occurred at the hunting stand in the past (e.g., fuel leaking from a vehicle parked adjacent to the stand).

Cobalt is a common constituent of certain fertilizers used for legumes, like beans, alfalfa, and clover, and some non-legume crops. It is noted that cobalt was only reported in the groundwater samples that also had reported concentrations of pesticides. Consequently, it is concluded that the source of cobalt in the limited area of apparent impact at the site is likely associated with the past agricultural use of the property. It is noted, however, that cobalt has been historically detected at low concentrations at various wells monitoring groundwater quality in Phase 1. Therefore, it is possible that some or all of the cobalt detected in groundwater at the site is naturally occurring.

As discussed above, monitoring well MW-3A was installed at the facility boundary down-gradient of the wells historically showing the highest concentrations of Appendix I constituents (MW-8 and MW-3s), in accordance with the Solid Waste regulations. Alpha-BHC and cobalt were reported in the groundwater sample collected from MW-3A in August 2009 at concentrations exceeding the applicable groundwater quality standards. As noted above, however, both of these constituents can be reasonably attributed to past agricultural use of the property prior to its use as a landfill. Moreover, the benzene and toluene detected at MW-3A can be reasonably attributed to past use of the site for agriculture or recreation, as discussed above in reference to the hunting stand near monitoring well MW-3S where the highest concentrations of these constituents were reported. None of these analytes would be expected to be constituents of materials disposed in the C&D landfill. Consequently, it is concluded that the water-quality data for MW-3A does not indicate that any dissolved-phase constituents that can be attributed to landfill operations have reached the facility boundary.

Based on these results, it is recommended that semi-annual monitoring of groundwater be continued and that the required analytical parameters be limited to Appendix I volatile organic compounds and metals. Inasmuch as the pesticides reported in groundwater at the site can be reasonably attributed to past agricultural use of the property, we propose to eliminate pesticides from the required analytical parameters for future sampling. The results of the semi-annual monitoring will be evaluated for any changes in conditions that would indicate a sustained increase in dissolved contaminant concentrations and the likelihood that the groundwater quality standards will be consistently exceeded at the compliance boundary. If such conditions arise, C&D Landfill, Inc. will propose additional assessment and/or corrective actions to address the situation.

David Garrett & Associates
Engineering and Geology

November 20, 2009

Ms. Jaclynne Drummond
North Carolina Department of Environment and Natural Resources
Division of Waste Management
Solid Waste Section
P. O. Box 27687
Raleigh, NC 27611-7687

RE: Appendix II Assessment Monitoring Report: August 2009
C & D Landfill, Inc.
Greenville, Pitt County, NC
Permit # 74-04

Dear Ms. Drummond:

This report presents the results of Release Characterization and Appendix II assessment monitoring conducted at the landfill site referenced above (**Figure 1**) in August 2009 in accordance with North Carolina Solid Waste Management Rule 15A NCAC 13B .0545 (Rule .0545). C&D Landfill, Inc. initiated a ground water assessment monitoring program as a requirement of North Carolina Solid Waste regulations. Assessment monitoring is a self-implementing sampling program triggered by one or more constituents, those normally monitored in the detection-stage monitoring program, that exceed North Carolina ground water quality standards (15A NCAC 2L). Detection of several volatile organic constituents on the US-EPA Appendix I sampling list have been consistently detected at monitoring wells MW-1s, MW-2s, MW-3s and MW-8 over the past four sampling events.

Three of these constituents (benzene, 1,2-Dichloroethane , vinyl chloride) have been reported at concentrations just slightly above the 2L standards at monitoring well MW-3s. The values that exceed the 2L standards have persisted for a couple of years, but (at present) both the number of constituents and the concentrations appear to be decreasing. A site map showing relevant site features, including groundwater monitoring wells, is presented as **Figure 2**.

The intent of the assessment monitoring program is to determine the horizontal and vertical extent of the impact (if one exists), and to determine if there is any risk to the public. The assessment monitoring program also seeks to establish a baseline data base of the Appendix II

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list of constituents, upon which trends can be established by comparing the results of future sampling events, followed by future adjustments to the long-term monitoring program and any corrective that might be appropriate. Temporal trends are important, as well, in that the data may indicate a temporary problem or chronic conditions, which would be treated in different ways.

Currently, there are twelve (12) monitoring wells in place for Phase 1 of the C&D landfill, eight (8) of which monitor the uppermost aquifer within depths of approximately 15 to 25 feet – these are sampled on a semi-annual basis in accordance with the regulations – and four (4) deeper wells that are sampled less frequently. The background wells for Phase 1 are MW-1s and MW-1d. Planned future monitoring of Phase 2 includes nine (9) additional wells with one deep well (MW-14A) and another upgradient background well (MW-9A).

For the initial stages of the assessment monitoring, one supplemental shallow monitoring well was installed at the property line (MW-3A) down-gradient of the wells historically showing the highest concentrations of Appendix I constituents (MW-8 and MW-3s), in accordance with the Solid Waste regulations. In addition, three (3) of the proposed Phase 2 shallow monitoring wells (MW-10, MW-11, and MW-12s) were installed upgradient of the area of apparent impact. The latter wells were installed per an amendment to the Sampling and Analysis Plan but were sampled as part of the assessment to assist in delineating the contaminant source.

The scope of work performed included: 1) installation of the aforementioned monitoring wells; 2) a survey of well locations and elevations; 3) rising-head permeability ("slug ") tests at newly installed monitoring wells MW-3A, MW-10, MW-11 and MW-12s; and 4) sampling and laboratory analysis of groundwater from groundwater monitoring wells MW-3A, MW-3s, MW-8, MW-10, MW-11 and MW-12s for constituents on the US-EPA Appendix II sampling list. The groundwater samples were collected in accordance with the NCDENR, Division of Waste Management (DWM), Solid Waste Section (SWS) Groundwater Monitoring Guidance Document and the facility Water Quality Monitoring Plan. The monitoring well installation methods, slug testing procedures, sampling and data collection methods, as well as the results of field and laboratory testing of the groundwater samples, are presented in the following sections.

PRIOR LAND USE

The history of the site – as well as adjacent properties – are fairly well understood, some of which could potentially lead to a contaminant being introduced to the ground water at Phase 1. These uses include former agricultural activities, dismantling of flood damaged mobile homes and approved disposal of flood debris within Phase 1 (possible unknown materials introduced with the flood damage debris), along with the MSW transfer station and material processing area located upgradient (north) of Phase 2 – albeit these off-site facilities are quite a distance away

and located across wetlands features. The landfill began as a repository for Hurricane Floyd flood-damage debris. Some of this material that was brought in under emergency management conditions may have contained components that would normally be excluded from a C&D landfill. The normal operation of the C&D landfill after the initial waste placement has been compliant with the regulatory requirements for waste acceptance.

LOCAL AND REGIONAL GEOLOGY

The site is located in the central Coastal Plain physiographic and geologic province of North Carolina. Available geologic mapping[1] places the site within the Tertiary (Miocene) age Yorktown Formation, approximately twenty miles west of the Suffolk Scarp – the dividing line between Quaternary age surficial deposits (to the east) and Tertiary age surface deposits (to the west), located at approximately 25 feet above mean sea level. The site is also located approximately twenty-four miles east of the Surry Scarp, which delineates higher ground underlain by Cretaceous (and older) units exposed south and west of Pitt County. The site is located entirely within the Tar-Pamlico River basin, draining south toward Grindle Creek, a major tributary to the Tar River.

Published literature indicates that upland areas throughout the region are underlain by relatively thin Quaternary surficial deposits (not differentiated on the state-wide map).[2] The surficial formation is characterized in the literature as stratified fluvial deposits, containing interlayered low permeability and high permeability horizons. The thickness of the aquifer ranges from 3 to 180 feet (average thickness of 35 feet near the site) – thickening eastward – with an estimated average hydraulic conductivity values ranging up to 29 feet per day. The surficial aquifer is also characterized as exhibiting less than 50 percent sand, hence lower hydraulic conductivity, west of a line that roughly coincides with the Suffolk Scarp. These observations were confirmed by the local area study and site specific reconnaissance, whereas the surficial deposits (deemed the uppermost aquifer) consist of poorly stratified sand and clay layers, which were found to exhibit an average thickness of 12 feet (varying up to 30 feet), underlain by the Yorktown Formation with a distinct fossil-marker bed of turritellas (gastropods) and a color change from tan-white (upper sands) to dark gray-green. On-site field hydraulic conductivity values were measured in the range of 0.028 ft/day to 0.667 ft/day.

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1 North Carolina Geological Map, Scale 1:62,500, NC Geological Survey, 1985.

2 Hydrogeologic Framework of the North Carolina Coastal Plain Aquifer System, U.S. Geological Survey Open File Report 87-690, USGS.

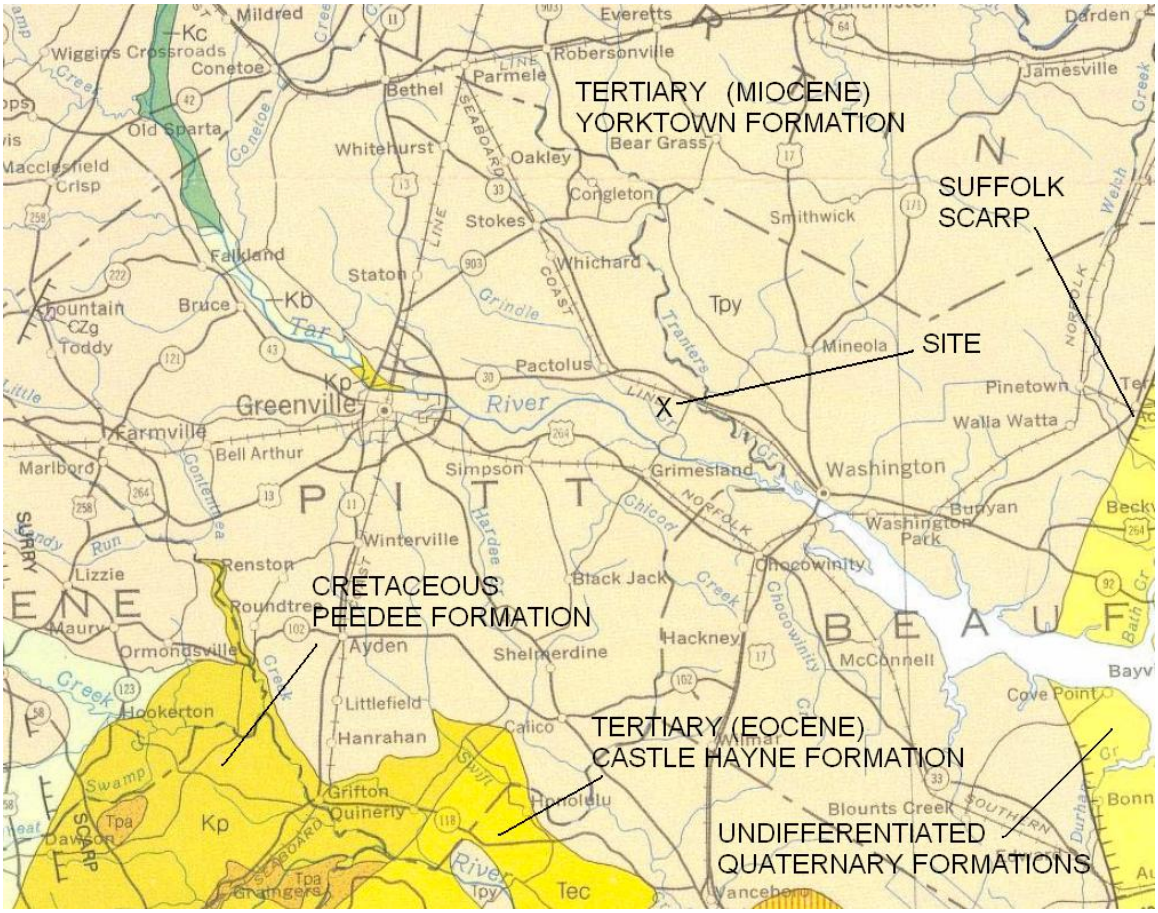

Figure 3 – North Carolina Geologic Map Excerpt

The major regional aquifers beneath the Coastal Plain, near the City of Greenville, NC, include the Yorktown Formation, the deeper Eocene-age Castle Hayne Formation (limestone) and underlying Cretaceous-age units, i.e. the Pee Dee and Black Creek Formations.[3] The Yorktown is characterized as marine sediments varying in thickness to 60 feet (thickest within Pitt County is in the northwest corner). The Castle-Hayne is localized to the southern and eastern portions of Pitt County (and further east) but is represented to be less than 30 feet in thickness everywhere in the county.

The Paleocene-age Beaufort Formation is mentioned in the literature, stratigraphically located between the Castle-Hayne and the deeper Cretaceous units, but the Beaufort does not outcrop. The Pee Dee and Black Creek Formations outcrop along the Tar River approximately eight miles

3 Brown, P.M., Geology and Ground Water Resources in the Greenville Area, North Carolina, Bulletin Number 73, prepared cooperatively by the North Carolina Department of Conservation and Development and the United States Geological Survey, 1959.

west of the site (in Greenville, NC), and the Cretaceous-age Cape Fear Formation outcrops approximately eight miles further upstream (west of the site). Based on regional data,[4] typical depths of the Cretaceous units in proximity to the site are in excess of 90 feet. All are considered to be viable aquifers with variable water quality.

Basement rocks in the region consist of pre-Mesozoic crystalline rocks of igneous and metamorphic origin, which underlie the sediments of the Coastal Plain near the site at depths in excess of 1000 feet, based on available water well data (see Footnote 4) and published data.[5] West of the Suffolk Scarp the projected surface of the crystalline basement slopes at 0.4% (2000 feet in 90 miles), east of the Suffolk Scarp the surface of the basement slopes at 1.4% (8000 feet in 110 miles), with a maximum depth of 10,000 feet at Hatteras. The basement complex likely resembles the crystalline rocks exposed in the Piedmont, complete with various contacts, jointing, and other tecto-structural features, e.g. folds and faults. Several transform faults in the basement complex have been recognized by characteristic deformation features within the overlying late-Mesozoic and early Tertiary sediments.[6]

These relicts of Triassic-age tectonism (active throughout the Mesozoic era) are strike-slip faults with vertical rotation, oriented approximately with the alignments of the Tar, Neuse and Cape Fear Rivers. The most conspicuous feature produced by these faults, visible on the North Carolina Geologic Map, is the "up-thrown block" that occurs between the Cape Fear and Neuse Rivers (well to the south of the site). Within this area, the Yorktown has been all but eroded away, exposing the older Tertiary and Cretaceous sediments much further east than observed south of the Cape Fear or north of the Neuse. These faults are not active, and the region is not within a Seismic Impact Zone[7].

Heavy ground water extraction by water supply wells in the region has been considered as a probable cause for lowered potentiometric levels within the regional aquifers (noticeable over several decades) and localized ground subsidence.[8] High capacity wells are used to supply drinking for the cities of Greenville and Washington. The Division of Water Resources data do not indicate how far the zone of influence around the wells extends with respect to subsidence,

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4 DENR Monitoring Well Database (interactive), North Carolina DENR Division of Water Resources, Ground Water Branch, viewed at web site http://www.dwr.ehnr.state.nc.us.

5 Lawrence and Hoffman, Geology of the Basement Rocks Beneath the North Carolina Coastal Plain, Bulletin 95, North Carolina Geological Survey, 1993.

6 Brown, P.M., and others, Wrench-style Deformation of Rocks of Cretaceous and Paleocene Age, North Carolina Coastal Plain, Special Publication 5, NCGS, Raleigh, NC, 1977.

7 EPA/600/R-95/051, RCRA Subtitle D (258) Seismic Design Guidance for Municipal Solid Waste Landfill Facilities, 1995, including Seismic Intensity Capable Faults Map

8 Land Subsidence Information, NC DENR Division of Water Resources - Ground Water Branch, unpublished, reviewed on-line at www.dwr.ehnr.state.nc.us

but the subsidence probably extends not more than a few miles from the respective wells. No high capacity production wells are located within two miles of the subject site, based on the findings of the local area study. It is not anticipated that the site could affect these wells, or that the ground water extraction at these locations could affect the site.

Daniels, *et al*., discusses drainage characteristics and ground water movement within the surficial deposits of the Coastal Plain.[9] By examining in numerous soil samples for the presence of iron-oxide staining (various hues of red and yellow, e.g. goethite) and gley coloration (gray, blue-gray or green-gray pigmentation resulting from reduced iron compounds contained in water-logged soils beneath the surface, often accompanied by the formation of a sticky clay layer), along with various geochemical and pedologic properties, water movement characteristics within certain near surface soil horizons can be determined. Gleyed sands and sand-clay horizons were observed in the drilling for the subject site, typically at depths of 7 to 12 feet, usually with a sharp near horizontal demarcation with the overlying iron-oxide pigmented soils.

This work suggests that the presence of gley colors relatively near the surface within the Coastal Plain (as in other areas) results from very slow to no movement of water, i.e. "stagnant" ground water conditions. Conditions that produce gleyed beds, whether sand or clay, do not often change, as would be expected with the introduction of oxygen-rich meteoric water from the surface. The implications are that surficial aquifers function independently as reservoirs of infiltrated meteoric water, with relatively shallow discharge to streams and little recharge to the deeper aquifers. As discussed in the Site Suitability Report, the subject site is isolated hydraulically and from human activities. It is not likely that the landfill will affect (or be affected by) regional activities.

Based on work conducted for the Design Hydrogeologic Study, the stratigraphy at the site has been assigned to hydrogeologic units as follows: two aquifers, upper and lower (Units 1 and 2 Aquifers) and two confining layers, upper and lower (Units 1 and 2 Confining Layers). Typical of the coastal plain, the site stratigraphy within the upper 25 feet beneath the surface is defined by a distinct boundary between recent fluvial sediments (tan-yellow and white cross-bedded sands and clays) and deeper marine sediments (dark green silty sands and clays, often with cemented zones and shell hash).

The uppermost marine sediments have been identified as the Miocene-age Yorktown formation based on the fossil assemblage, yet the presence of glauconite (a dark green-black mica, related

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9 Daniels, R.B., and E.E. Gamble, W.H. Wheeler, J.W. Gilliam, E.H. Whiser, C.W. Welby, Water Movement Surficial Coastal Plain Sediments, Inferred from Sediment Morphology, Technical Bulletin No. 243, North Carolina Agricultural Experiment Station, North Carolina State University, Raleigh, NC, December 1978.

to biotite, which forms in deep marine environments)[10] in the deeper sediments suggests other possible formations mapped in the region, e.g., Castle Hayne, Beaufort, Pee Dee, or the Black Creek. Specific studies of index fossils were not performed to distinguish these formations, but a comparative study of water well data in the region (see Footnote 4) indicates that the on-site borings likely encountered the Castle Hayne and/or the Beaufort, in addition to the Yorktown.

Unit 1 Aquifer – Soils within the upper 5 to 8 feet below the surface consist of recent to Pliocene-age fluvial sediments, likely associated with former shorelines and/or estuaries of the Tar River and/or Grindle Creek. Pockets of buff-white, well graded sand (SW), with thicknesses of 15 feet, indicate former channel migration. Correlation of test borings and hand augers to earlier studies for Phase 1 indicates a relatively shallow, tan-yellow clay layer existing at depths between 16 to 24 inches, extending to depths of 36 to 48 inches. Cross-bedding is likely; the clay layer is present at most (but not all) test locations within the eastern portion of the site (not a true confining layer). The clay exhibits a laboratory permeability of 10^{-6} cm/sec.

The silty sands and clean sands within the upper 10 to 14 feet are considered to be the uppermost aquifer. The water table typically occurs at 4 to 7 feet below the ground surface within this unit in the eastern portion of the site (typically shallower within the lower lying western portion of the site). Several piezometers were completed to a depth of 15 feet. Based on these data the hydraulic conductivity for this unit varies on the order of 10^{-3} cm/sec to 10^{-4} cm/sec.

Unit 1 Confining Layer – Below a depth of 12 to 17 feet exist sandy silt grading downward to plastic clay, which collectively vary in thickness from approximately 15 to 25 feet. The top of this layer is distinguished by a dark green-gray color, characteristic of marine sediments, and heavy shell hash, including whole turritellas (a snail-like marine mollusk). These strata represent the top of the Yorktown formation. The clay layer is present in every boring and exhibits a stiff, moist "gumbo" consistency, that is, the clay is easily molded into a thread of less than 1/8-inch diameter and maintains this level of plasticity for repeated remolding over several minutes.

Laboratory permeability testing on relatively undisturbed samples indicate hydraulic conductivity values of 1.5×10^{-7} cm/sec and 4.6×10^{-7} cm/sec, respectively. This unit has been identified as the top of the Yorktown Formation – marine clay of Miocene age – which predates the numerous sea level fluctuations associated with glacial activity

[10] Hurlbut, Jr., C.S., and C. Klein, Manual of Mineralogy (after J.D. Dana), 19th ed., J.W. Wiley & Sons, New York, 1977.

(elsewhere) during the Pleistocene. The top of the confining unit, marked by the turritella -rich fossil assemblage, appears to be sculpted by channelized water during the multiple estuarine ingresses and regresses of the para-glacial period. At some borings, there is a sandy transition layer, sometimes with the marker fossils, but the clay layer is deeper or absent to the west of the footprint and the marker bed is absent. Considering the flat potentiometric gradient and upward vertical gradient (discussed later), vertical ground water migration potential relative to the confining layer is limited.

Unit 2 Aquifer – Below depths of 35 to 45 feet exist relatively dense silty sands and clayey sands (SM and SM-ML), which locally are cemented. These soils contain variable amounts of glauconite (a type of mica found in deep marine sediments, distinguished by a green-black "speckled" color), and scattered pelecypod shell hash (including modern-type clams). The deeper sediments were often cemented, giving firm resistance to the drilling equipment. Occasional cemented shell hash concretions were encountered in the split spoon sampling, some of which resemble the distinctive pelecypod-mold structure of the Castle-Hayne formation. The concretions were not widely encountered and might represent reworked sediments derived from the older formation. A piezometer completed within this unit (MW-1d) indicates in-situ hydraulic conductivity values on the order of 10^{-6} cm/sec, while other piezometers within Phase 1 indicated conductivity values on the order of 10^{-4} to 10^{-5} cm/sec. This unit is 25 to 30 feet thick, based on the data.

Unit 2 Confining Layer – The deeper sediments (possible Castle-Hayne or Beaufort) became very clayey below depths of approximately 50 feet, but otherwise resembled the soils described in the overlying aquifer. This unit extended to a depth of 80 feet based on drilling at the site. While the actual thickness cannot be determined, piezometer "slug test" data indicate a hydraulic conductivity on the order of 10^{-4} to 10^{-5} cm/sec. An earlier slug test for a nearby piezometer in Phase 1 indicated an in-situ conductivity value on the order of 10^{-6} cm/sec. Published data indicates that confining units exist between the Yorktown and Castle Hayne formations and between the Castle Hayne and the underlying Beaufort formation. Based on the projected depth of the Castle Hayne in this region, and the observation of pelecypod-mold concretions in the split spoon samples, it is likely that the test boring encountered this confining layer. The presence of glauconite (not typically associated with the Castle Hayne) might indicate the deeper Beaufort formation.

INSTALLATION OF GROUNDWATER MONITORING WELLS

Four additional groundwater-monitoring wells were installed at the site in August 2009 for the purposes of the assessment monitoring as discussed above. The locations of the site monitoring

wells are shown in **Figure 2**. Well construction diagrams and well completion reports for the monitoring wells installed at the site are included in **Appendix A**.

The well borings were drilled with a truck-mounted drilling rig equipped with hollow-stem augers. The augers and all drilling equipment were steam cleaned prior to drilling at each location and after completion of the last boring. Soil samples were collected from the well borings to document the lithology of the subsurface materials penetrated during drilling. The samples were collected in 1.5-foot intervals at various depths within each well boring using 2-foot long, 2-inch inside diameter (ID) steel split-spoon samplers. The depths from which soil samples were collected from the well borings, as well as lithologic descriptions of the soils penetrated during drilling, are indicated on the drilling logs included in **Appendix B.**

The Type II monitoring wells were installed through the hollow stem augers to total depths of 20 feet below grade, are constructed with 5 feet of 2-inch ID Schedule 40 PVC solid well casing and 15 feet of slotted screen (0.01-inch slots), and are finished above grade within steel, stickup well protectors with hinged, locking lids set in concrete pads. Well construction details are recorded in the well construction diagrams and drilling logs included in **Appendices A and B**, respectively.

Following installation, the monitoring wells were developed to remove sediment from within the well and annular gravel pack, and to facilitate hydraulic connection between the well and surrounding aquifer material. The wells were developed using a submersible pump equipped with PVC discharge hose. Prior to initiating development at each well, the submersible pump and discharge hose were washed with alkaline soap and water and rinsed with distilled water. The submersible pump was then lowered into each well below the water table, and was periodically raised and lowered through the water column to agitate the water in the well and induce trapped sediment to be released from the sand pack into the well. This process was repeated until the discharge water appeared to be free of suspended sediments or for a maximum of one hour.

A well location and elevation survey was conducted by, Burgess Land Surveyors, Greenville, NC, a licensed North Carolina surveyor, in August 2009. The survey included measuring the casing elevations and horizontal positions of monitoring wells MW-3A, MW-10, MW-11 and MW-12s. Vertical elevations were measured to an accuracy of 0.01-feet relative to mean sea level using the NAD 83 datum. The points on the PVC well casings at which the elevations were measured were permanently marked for future reference. The horizontal positions of the monitoring wells were measured to the nearest 0.1-foot relative to the locations of previously

established control points. A minimum of two reference points were used to locate each well. Well elevation data are included in **Table 1**.

GROUNDWATER GAUGING AND SAMPLE COLLECTION

Groundwater levels were gauged in the site monitoring wells on August 10 and 11, 2009 as part of assessment monitoring. Depths to groundwater were measured using an electronic interface probe that was thoroughly decontaminated between wells with a non-phosphate soap and water wash followed in order by multiple rinses with distilled water, an isopropyl alcohol rinse, and multiple distilled water rinses. Depth to water measurements were made after the wells were opened for a sufficient periods of time to allow water levels to equilibrate with atmospheric pressure. The locations of the site monitoring wells are depicted in **Figure 2**. Groundwater elevation data collected at the monitoring wells in August 2009 are presented in **Table 1**. The depth to groundwater in the study area relative to ground surface, as measured in Type II groundwater-monitoring wells MW-3A, MW-3s, MW-8, MW-10, MW-11 and MW-12s on August 10 and 11, 2009, ranged from approximately 3 feet (MW-11) to 11 feet (MW-3A) below grade, which is consistent with the surface topography.

Groundwater samples were collected on August 10 and 11, 2009 for laboratory analysis to monitor the quality of groundwater at the site. The samples were analyzed for the following 40 CFR Part 258 Appendix II List of Hazardous Inorganic and Organic Constituents: volatile organic compounds; semi-volatile organic compounds; metals; PCBs; herbicides; pesticides; total cyanide; and total sulfide. The groundwater samples were collected and handled in accordance with the sampling protocols included in the site Water Quality Monitoring Plan as well as the SWS Groundwater Monitoring Guidance Document. All reusable sampling equipment was properly decontaminated between sampling locations with a non-phosphate soap and water wash, followed by multiple rinses with distilled water. New disposable nitrile or latex gloves were worn during all sampling activities. Disposable sampling equipment/material was discarded after each use.

Prior to groundwater sampling, the monitoring wells were purged using pre-cleaned Teflon-lined disposable polyethylene tubing connected to a peristaltic pump under low flow (≤ 500 ml/min.) conditions. During purging, measurements were made in the field of the pH, temperature, specific conductance and turbidity of the groundwater collected from the monitoring wells, in accordance with SWS requirements. The results of the field analyses of these parameters are presented in **Table 1**. Copies of Groundwater Sampling Forms containing pertinent information recorded in the field during purging and sampling at each groundwater monitoring well are presented in **Appendix C**. The results of the field-measured water-quality parameters indicate

that the values measured in groundwater collected from the site monitoring wells were within applicable stabilization criteria (see Groundwater Sampling Forms). Groundwater at the site is slightly acidic based on the pH values measured in the field (6.19 to 6.70). Specific conductance values ranged from 172 (MW-12s) to 2,744 (MW-3s) µS/cm. Turbidity values ranged from 1 (MW-3A and MW-3s) to 7 (MW-10) NTUs. After field parameters had stabilized over three consecutive recording intervals, groundwater samples were collected using the same tubing that was used to purge the well. The samples were decanted into laboratory prepared containers, which were then placed into ice-filled coolers and shipped under proper chain-of-custody to SGS Environmental Services (SGS) for analysis.

RESULTS OF RISING-HEAD PERMEABILITY TESTS

Rising-head permeability ("slug") tests were conducted at monitoring wells MW-3A, MW-10, MW-11 and MW-12s to evaluate aquifer hydraulic properties in the vicinity of each well. The slug tests were conducted by placing a combined data recorder-pressure transducer (In-Situ Mini Troll™) at the bottom of the well and rapidly removing a volume (slug) of water from the well using a centrifugal pump to lower the level of the water table below the level measured at static conditions. The data logger was used to measure the rate of influx until water level equilibrium was reestablished. The measured rate of recovery of the water level is a function of the hydraulic conductivity of the aquifer material in the vicinity of the well. The slug test data was analyzed using the HydroSOLVE, Inc. AQTESOLV for Windows™ program according to the Bouwer-Rice procedure. The test data and permeability calculations for the slug tests are presented in **Appendix D**.

Field hydraulic conductivity values measured at the Type II monitoring wells ranged from 0.01 ft/day (3.39×10^{-6} cm/sec) at MW-11 to 0.80 ft/day (2.82×10^{-4} cm/sec) at MW-3A. It should be noted that a slug test measures the hydraulic properties within a relatively limited zone of influence around a piezometer, but these data are consistent with the results of slug tests previously conducted in the other monitoring wells at the site (see below).

Groundwater flow direction, average hydraulic gradient, and average interstitial flow velocity were derived from maximum seasonal high water-level measurements established for the site for the Phase 2 Design Hydrogeologic Report and the results of the slug tests. Using the maximum seasonal high water-levels is considered a conservative approach because the resulting average hydraulic gradient and, hence, calculated average interstitial flow velocity, are higher than would be derived using lower water levels. A water-table elevation contour map derived from the maximum seasonal high water-level data is presented as **Figure 3**. The water-table elevation contours in **Figure 3** indicate that the direction of shallow groundwater flow is generally to the

south and west toward unnamed on-site streams with an average hydraulic gradient of approximately 0.01 ft/ft. This is consistent with the general flow direction observed during previous monitoring events.

The hydraulic gradient in the vicinity of each well was derived by dividing the elevation difference between proximal water-table elevation contour lines by the perpendicular horizontal distance between those contours (**Figure 3** and **Table 2**). Results of in-situ slug testing at monitoring wells MW-3A, MW-10, MW-11 and MW-12s indicate hydraulic conductivity values in the shallow surficial aquifer ranging from 3.39×10^{-6} cm/sec to 2.82×10^{-4} cm/sec (approximately 0.001 ft/day to 0.101 ft/day). Using the horizontal hydraulic gradient measurements, the individual estimates of hydraulic conductivity, and assumed effective porosities for the aquifer material penetrated by each well (based on grain-size data from laboratory testing of site soils for the Phase 2 Design Hydrogeologic Report), the range of average interstitial groundwater flow velocities for the shallow surficial aquifer was calculated using the following formula:

$$v_x = (K/n_e) \cdot \frac{dh}{dl}$$

Where:

v_x = average interstitial groundwater flow velocity
K = hydraulic conductivity
n_e = effective porosity
dh/dl = horizontal hydraulic gradient

Average linear flow velocities are estimated to range between approximately 0.001 to 0.101 feet/day. **Table 2** summarizes the data used to calculate the average interstitial groundwater flow velocity in the vicinity of each Type II monitoring well.

RESULTS OF GROUNDWATER SAMPLING AND ANALYSIS

Summarized results of laboratory analyses for groundwater samples collected from the site on August 10 and 11, 2009 are presented in **Table 3**. Copies of the original laboratory reports are included in **Appendix E**. The following Appendix I and Appendix II constituents were reported in groundwater samples collected from the site at concentrations in excess of the corresponding 15A NCAC 2L groundwater quality standard or the Solid Waste Section groundwater protection standard, and are discussed further below:

Analyte	Well Location	Appendix I/II
Benzene	3S	I
Alpha BHC	3A, 3S, 8	II
Beta BHC	8	II
Cobalt	3A, 3S, 8	I

The laboratory analytical results for the August 10 and 11, 2009 sampling event indicate that benzene was reported at a concentration in excess of the 15A NCAC 2L groundwater quality standard (1 µg/L) at monitoring well MW-3s (2.29 µg/L), which is consistent with previous monitoring conducted at the site. Various other volatile organic compounds, including acetone, toluene, ethylbenzene, total xylenes and several chlorinated aliphatic hydrocarbons, were reported in groundwater samples collected from the site at concentrations well below the applicable 15A NCAC 2L groundwater quality standards. It is noted that none of the volatile organic compounds detected in the groundwater samples are Appendix II constituents.

The semi-volatile organic compounds acenapthene and dibenzofuran were reported in the groundwater sample from monitoring well MW-3s at concentrations well below the applicable 15A NCAC 2L groundwater quality standards. Likewise, di-n-octylphthalate was reported in the groundwater sample from monitoring well MW-8 at a concentration well below the 15A NCAC 2L groundwater quality standard. No other semi-volatile organic compounds were reported in any of the groundwater samples.

The pesticide alpha-BHC was reported in the groundwater samples from monitoring wells MW-3A, MW-3s and MW-8 at concentrations exceeding the Solid Waste Section groundwater protection standard. In addition, beta-BHC was reported in the ground water sample from MW-8 at a concentration in excess of the Solid Waste Section groundwater protection standard. No other pesticides were reported for any of the samples. Several other pesticides were reported in the groundwater samples from MW-3s and MW-8 at concentrations below the applicable groundwater quality standards. It is noted that no PCBs or herbicides were reported in any of the groundwater samples.

Total sulfide was reported at a concentration of 134 µg/L in the groundwater sample from monitoring well MW-3s. No 15A NCAC 2L groundwater quality standard has been established for total sulfide. Total sulfide was not reported in any of the other groundwater samples. In addition, total cyanide was not reported in any of the groundwater samples.

The results of the metals analyses of the groundwater samples indicate that barium, chromium, copper, silver, and tin were reported in all of the samples; cadmium was reported in five of the six samples; and nickel and selenium were reported in four of the six samples. Arsenic and vanadium were each reported in one of the six samples. None of the reported concentrations of these metals exceed the applicable 15A NCAC 2L groundwater quality standards or Solid Waste Section groundwater protection standard. Cobalt was reported in the groundwater samples from monitoring wells MW-3A, MW-3s and MW-8 at concentrations in excess of the Solid Waste Section groundwater protection standard.

CONCLUSIONS AND RECOMMENDATIONS

The results of the August 2009 assessment monitoring indicate that benzene in the groundwater sample collected from monitoring well MW-3s, alpha-BHC and cobalt in the groundwater samples from MW-3A, MW-3s and MW-8, as well as beta-BHC in the groundwater sample from MW-8 were the only constituents reported in groundwater samples collected from the site at concentrations that exceed the corresponding 15A NCAC 2L groundwater quality standard or Solid Waste Section groundwater protection standard. Various other volatile organic compounds, semi-volatile organic compounds and pesticides were also reported in the groundwater samples from monitoring wells MW-3A, MW-3s and MW-8 at concentrations well below the applicable 15A NCAC 2L .0202 Class GA groundwater quality standards or Solid Waste Section groundwater protection standards.

The apparent extent of groundwater impact from constituents exceeding applicable groundwater quality standards appears to be limited to an area between monitoring well MW-8 and monitoring wells MW-3s and MW-3A. No constituents were reported at concentrations exceeding the applicable standards at wells outside of this limited area.

The pesticides reported in the groundwater samples are likely remnants from the past agricultural use of the property and not likely associated with the operation of the C&D landfill. Benzene is a constituent of refined petroleum fuels such as gasoline and diesel. The limited extent of benzene in groundwater and the location of apparent impact relative to the landfill indicate that the presence of benzene in groundwater is most likely a relic of previous activities and NOT related to waste disposed in the landfill. It is noted that a hunting stand was formerly located near monitoring well MW-3s, where the reported concentration of benzene is highest. It is possible that a small fuel spill occurred at the hunting stand in the past (e.g., fuel leaking from a vehicle parked adjacent to the stand).

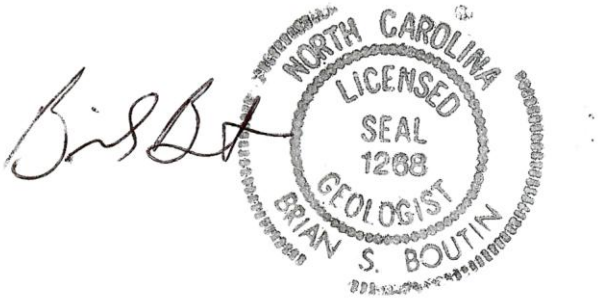
Cobalt is a common constituent of certain fertilizers used for legumes, like beans, alfalfa, and clover, and some non-legume crops. It is noted that cobalt was only reported in the groundwater samples that also had reported concentrations of pesticides. Consequently, it is concluded that the source of cobalt in the limited area of apparent impact at the site is likely associated with the past agricultural use of the property. It is noted, however, that cobalt has been historically detected at low concentrations at various wells monitoring groundwater quality in Phase 1. Therefore, it is possible that some or all of the cobalt detected in groundwater at the site is naturally occurring.

As discussed above, monitoring well MW-3A was installed at the facility boundary down-gradient of the wells historically showing the highest concentrations of Appendix I constituents (MW-8 and MW-3s), in accordance with the Solid Waste regulations. Alpha-BHC and cobalt were reported in the groundwater sample collected from MW-3A in August 2009 at concentrations exceeding the applicable groundwater quality standards. As noted above, however, both of these constituents can be reasonably attributed to past agricultural use of the property prior to its use as a landfill. Moreover, the benzene and toluene detected at MW-3A can be reasonably attributed to past use of the site for agriculture or recreation, as discussed above in reference to the hunting stand near monitoring well MW-3S where the highest concentrations of these constituents were reported. None of these analytes would be expected to be constituents of materials disposed in the C&D landfill. Consequently, it is concluded that the water-quality data for MW-3A does not indicate that any dissolved-phase constituents that can be attributed to landfill operations have reached the facility boundary.

Based on these results, it is recommended that semi-annual monitoring of groundwater be continued and that the required analytical parameters be limited to Appendix I volatile organic compounds and metals. Inasmuch as the pesticides reported in groundwater at the site can be reasonably attributed to past agricultural use of the property, we propose to eliminate pesticides from the required analytical parameters for future sampling. The results of the semi-annual monitoring will be evaluated for any changes in conditions that would indicate a sustained increase in dissolved contaminant concentrations and the likelihood that the groundwater quality standards will be consistently exceeded at the compliance boundary. If such conditions arise, C&D Landfill, Inc. will propose additional assessment and/or corrective actions to address the situation.

If you have any questions or require further assistance regarding this report, please call me at 919-995-0363.

Sincerely,



Brian S. Boutin, P.G.
Consulting Geologist

Cc: Judson Whitehurst, C&D Landfill, Inc.
David Garrett, PG, PE, David Garrett & Associates

Contour and elevation data for download was generated from Light Detection And Ranging (LIDAR) data obtained from the North Carolina Floodplain Mapping Program (www.ncfloodmaps.com). NCDOT LIDAR Data release: May 2007 – all data was generated from LIDAR in April 2007 (supersedes March 2005 data release). All data is in North Carolina State Plane NAD83 Feet.

Source data acquired on-line at http://www.ncdot.org/it/gis/DataDistribution/ContourElevationData

MEDIAN ELEV. 26

MEDIAN ELEV. 22

NC 30

QUARTER-MILE RADIUS

SR 1550

APPROX. COUNTY LINE (ALONG DRAINAGE FEATURE)

MEDIAN ELEV. 18

US 264

SR 1563

MEDIAN ELEV. 14

GRINDLE CREEK

MEDIAN ELEV. 6

MEDIAN ELEV. 6

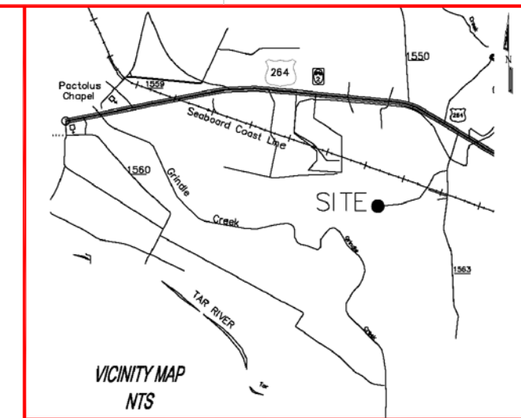
MEDIAN ELEV. 10

NC 33

MEDIAN ELEV. 26

TAR RIVER

MEDIAN ELEV. 2



VICINITY MAP
NTS

REFERENCE 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. PHASE 1 OPENED IN 2001, PHASE 2 PLANNED TO OPEN IN 2009 (PENDING APPROVAL OF PERMIT TO CONSTRUCT)
5. FACILITY IS OWNED AND OPERATED BY C&D LANDFILL, INC. (JUDSON WHITEHURST, PRESIDENT)

LEGEND

- MW-1 EXISTING MONITORING WELLS
- MW-14 PROPOSED MONITORING WELLS
- SW-1 SURFACE WATER MONITORING POINT
- FACILITY BOUNDARY

0 1200' 2400' 3600'
1" = 1200'

NO.	DATE	REVISION
0	6-18-09	ISSUED FOR REGULATORY REVIEW

David Garrett & Associates
Engineering and Geology
5105 Harbour Towne Drive, Raleigh, North Carolina 27604
Email: david_garrett_pg@mindspring.com 919-231-1816 (Office and Fax) 919-418-4375 (mobile)

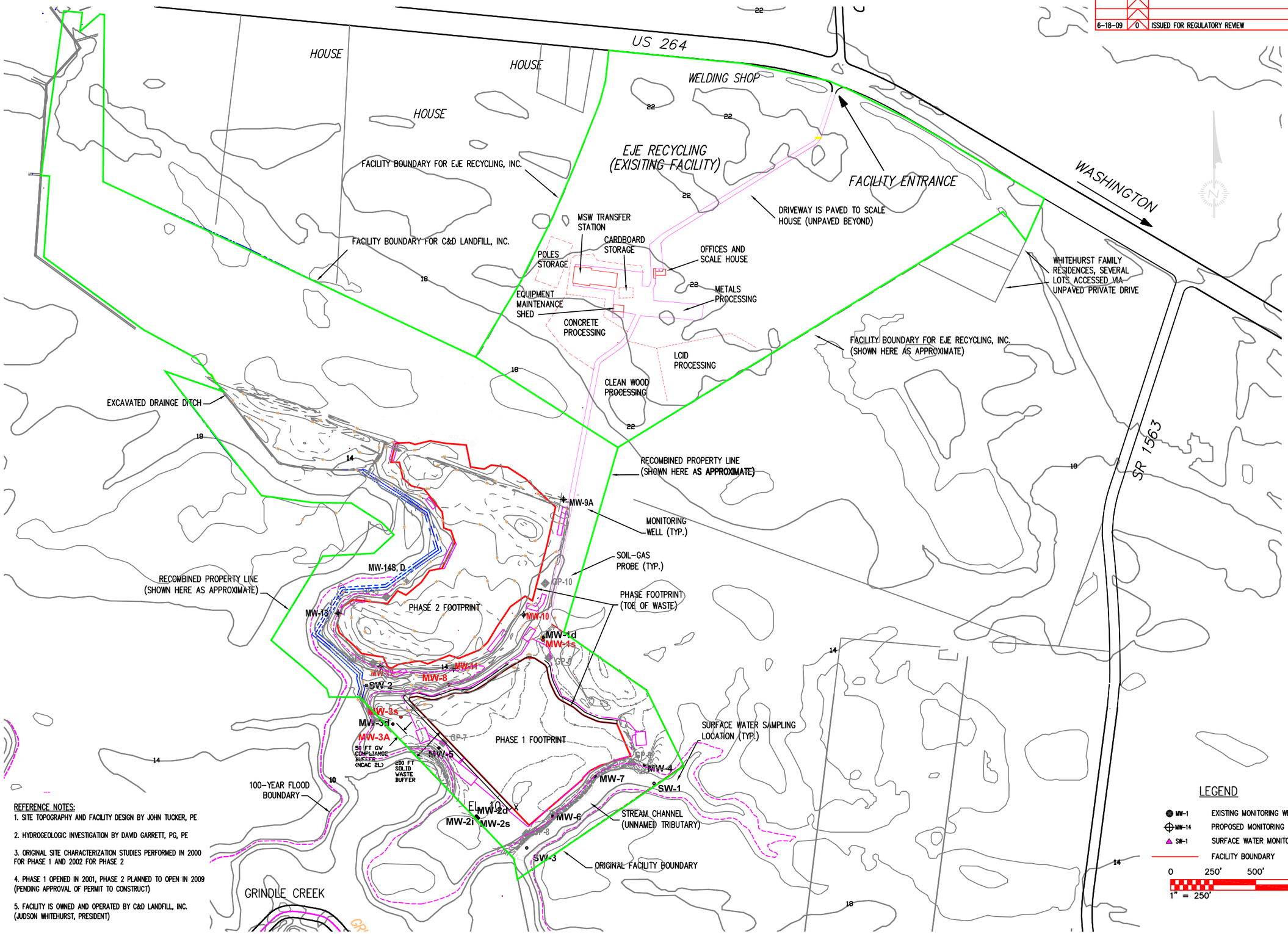
NORTH CAROLINA LICENSED PROFESSIONAL GEOLOGIST DAVID GARRETT 6-18-09

PROJECT TITLE: C&D LANDFILL, INC. GROUND WATER MONITORING PITT COUNTY, NC PERMIT #74-07

DRAWING TITLE: REGIONAL TOPOGRAPHY AND SURFACE DRAINAGE W/ QUARTER-MILE RADIUS

DESIGNED BY: G.D.G.	DRAWN BY: G.D.G.
CHECKED BY: J.A.T.	PROJECT NO.: CDLF-3
SCALE: AS SHOWN	DATE: JUNE 2009
FILE NAME: C&D LANDFILL ASSESSMENT	
SHEET NO.: 1	DRAWING NO.: S1

DATE	NO.	REVISION
6-18-09	0	ISSUED FOR REGULATORY REVIEW



REFERENCE 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. PHASE 1 OPENED IN 2001, PHASE 2 PLANNED TO OPEN IN 2009 (PENDING APPROVAL OF PERMIT TO CONSTRUCT)
5. FACILITY IS OWNED AND OPERATED BY C&D LANDFILL, INC. (JUDSON WHITEHURST, PRESIDENT)

David Garrett & Associates
Engineering and Geology
5105 Harbour Towne Drive, Raleigh, North Carolina 27604
Email: david_garrett_pg@mindspring.com 919-231-1816 (Office and Fax) 919-418-4375 (mobile)

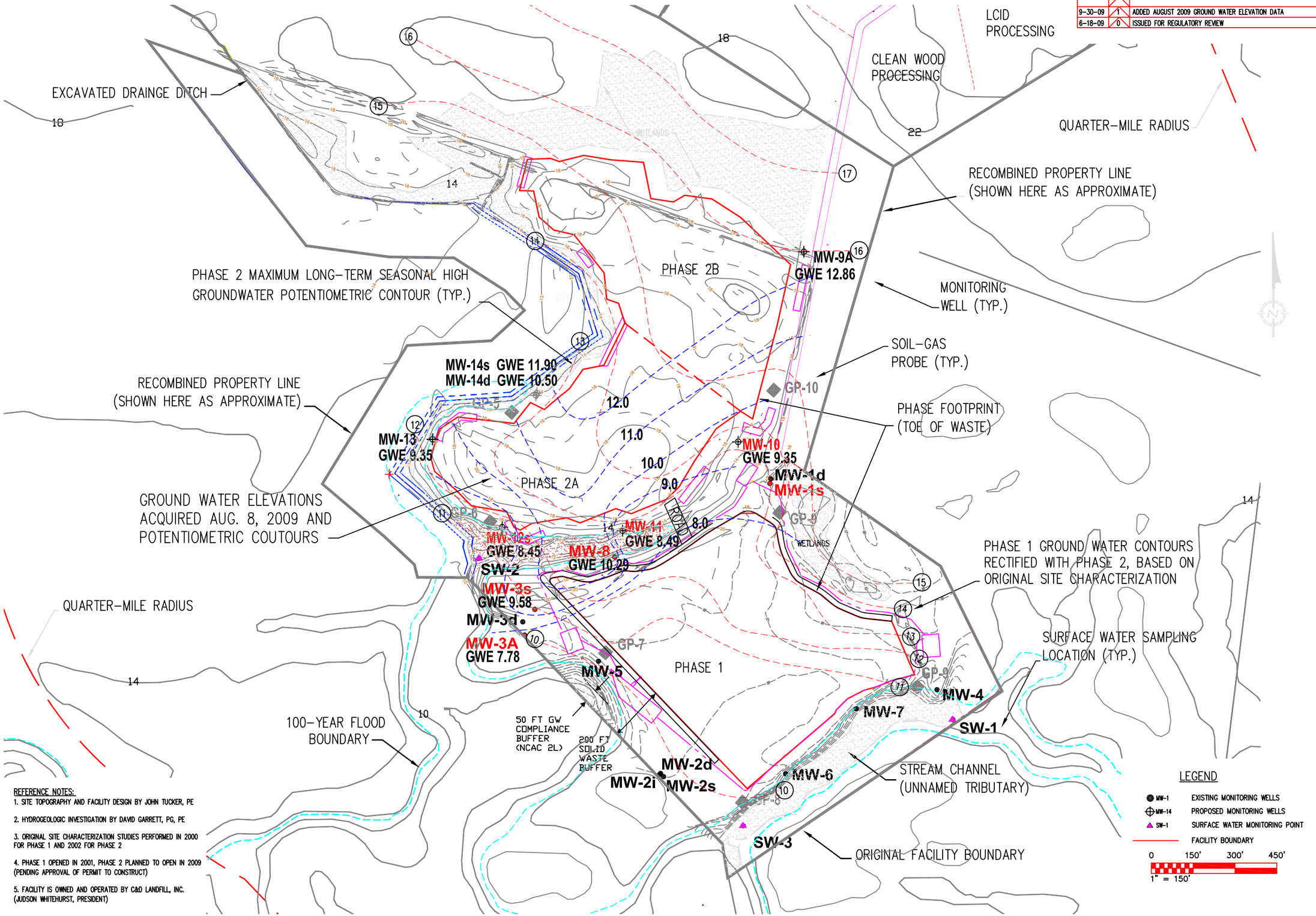
SEAL: NORTH CAROLINA LICENSED PROFESSIONAL GEOLOGIST DAVID G. GARRETT 6-18-09

PROJECT TITLE: C&D LANDFILL, INC. ASSESSMENT MONITORING PITT COUNTY, NC PERMIT #74-07

DRAWING TITLE: OVERALL FACILITY PLAN RECYCLING FACILITY AND CDLF (PHASES 1 AND 2)

DESIGNED BY: G.D.G.	DRAWN BY: G.D.G.
CHECKED BY: J.A.T.	PROJECT NO.: CDLF-3
SCALE: AS SHOWN	DATE: JUNE 2009
FILE NAME: C&D LANDFILL ASSESSMENT	
SHEET NO.: 2	DRAWING NO.: S2

DATE	NO.	REVISION
9-30-09	1	ADDED AUGUST 2009 GROUND WATER ELEVATION DATA
6-18-09	0	ISSUED FOR REGULATORY REVIEW



REFERENCE 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. PHASE 1 OPENED IN 2001, PHASE 2 PLANNED TO OPEN IN 2009 (PENDING APPROVAL OF PERMIT TO CONSTRUCT)
5. FACILITY IS OWNED AND OPERATED BY C&D LANDFILL, INC. (JUDSON WHITEHURST, PRESIDENT)

David Garrett & Associates
Engineering and Geology
5105 Harbour Towne Drive, Raleigh, North Carolina 27604
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SEAL: NORTH CAROLINA LICENSED GEOLOGIST DAVID G. GARRETT 9-30-09

PROJECT TITLE: C&D LANDFILL, INC. GROUND WATER MONITORING PITT COUNTY, NC PERMIT #74-07

DRAWING TITLE: PRE-CONSTRUCTION GROUND WATER CONTOURS AND SAMPLING EVENT DATA

DESIGNED BY: G.D.G.	DRAWN BY: G.D.G.
CHECKED BY: J.A.T.	PROJECT NO.: CDLF-3
SCALE: AS SHOWN	DATE: JUNE 2009
FILE NAME: C&D LANDFILL ASSESSMENT	
SHEET NO.: 3	DRAWING NO.: GM3

Table 1
Monitoring Well and Groundwater Data
Water Quality Assessment Monitoring
August 10 and 11, 2009
C&D Landfill, Inc.
Greenville, Pitt County, North Carolina
Permit # 74-07

Well Identity	Well Depth (Feet BGS)	Well Diameter (Inches)	Screen Interval (Feet BGS)	Depth to Groundwater (Feet BTOC)	Elevation Top of PVC Well Casing (Feet MSL)	Groundwater Elevation (Feet MSL)	Field Parameters			
							Temp. C^{o}	pH	S.C. umhos/cm	Turbidity (ntu)
MW-3A	20.0	2.0	5 - 15	14.15	21.93	7.78	19.3	6.51	932	1
MW-3s	18.0	2.0	8 - 10	13.18	22.76	9.58	21.0	6.61	2744	1
MW-8	18.0	2.0	8 - 10	10.92	21.21	10.29	21.3	6.29	1347	4
MW-10	20.0	2.0	5 - 15	7.26	16.61	9.35	21.7	6.70	273	7
MW-11	20.0	2.0	5 - 15	6.00	14.49	8.49	23.5	6.19	568	5
MW-12s	20.0	2.0	5 - 15	7.73	16.18	8.45	21.5	6.23	172	6

Notes: BGS = Below Ground Surface
MSL = Mean Sea Level
BTOC = Below Top of Casing
NM = Not Measured
S.C. = Specific Conductance
ntu = Nephelometric Turbidity Units
Monitoring well construction data for MW-1 through MW-6 taken from April-June 2006 Sampling Event Monitoring Report prepared by Withers & Ravenel.

Table 2
Groundwater Flow Data
Water-Quality Assessment Monitoring
August 24, 2009
C&D Landfill, Inc.
Greenville, Pitt County, North Carolina
Permit # 74-07

Well Identity	Water Table Elevation (ft MSL) 8/24/2009	Hydraulic Conductivity (ft/day)	Effective Porosity	Average Hydraulic Gradient (ft/ft)	Average Linear Flow Velocity (ft/day)
MW-3A	9.47	0.80	0.08	0.010	0.101
MW-10	11.79	0.12	0.05	0.007	0.016
MW-11	10.49	0.01	0.04	0.005	0.001
MW-12s	10.78	0.32	0.06	0.018	0.097

Notes:
1) ft MSL = feet above mean sea level.
2) Hydraulic Conductivity from slug testing performed by EFM, Inc.
3) Effective porosity values approximated based on grain-size data from lab testing of site soils for Phase 2 Design Hydrogeologic Report.
4) Average gradient obtained by dividing water-table elevation difference by horizontal distance between closest two contour lines to each well location based on seasonal high water-table elevations (See Figure 3).
5) Average Linear Velocity calculated by the following formula:

$V_x = (K/n_e)*(dh/dl)$

Where:

V_x = average linear flow velocity *(ft/day)*
K = hydraulic conductivity *(ft/day)*
dh/dl = average hydraulic gradient *(ft/ft)*
n_e = effective porosity *(unitless)*

Table 3
Summarized Laboratory Analytical Results for Groundwater Samples
Water Quality Assessment Monitoring
August 10 and 11, 2009
C&D Landfill, Inc.
Greenville, Pitt County, North Carolina
Permit # 74-04

VOLATILE ORGANIC CONSTITUENTS SW 846 8260 (µg/L)	MW-3A	MW-3s	MW-8	MW-10	MW-11	MW-12s	SWSL (ug/L)	NCAC 2L STD (ug/L)
Acetone	3.15 J	5.99 J	ND	ND	ND	ND	100	700
Benzene	0.350 J	**2.29**	0.190 J	ND	ND	ND	1	1
Chloroethane (Ethyl Chloride)	ND	0.170 J	ND	ND	ND	ND	5.5	2800
Chloromethane	ND	0.150 J	ND	ND	0.290 J	ND	1	2.6
cis-1,2-Dichloroethene (Cis-1,2-Dichloroethylene)	ND	0.670 J	0.0700 J	ND	ND	ND	3	70
Ethylbenzene	ND	0.480 J	ND	ND	ND	ND	3	550
Toluene	0.120 J	0.190 J	ND	ND	ND	ND	3	1000
Total Xylenes	ND	0.360 J	ND	ND	ND	ND	4	530
SEMI-VOLATILE ORGANIC CONSTITUENTS SW 846 8270 (µg/L)							**SWSL (ug/L)**	**NCAC 2L STD (ug/L)**
Acenaphthene	ND	4.65 J	ND	ND	ND	ND	10	80
Dibenzofuran	ND	1.89 J	ND	ND	ND	ND	10	28
Di-n-octylphthalate	ND	ND	1.74 J	ND	ND	ND	10	140
PESTICIDES EPA 8081 (µg/L)							**SWSL (ug/L)**	**NCAC 2L STD (ug/L)**
alpha-BHC	**0.0229 JD**	**0.0522**	**0.0246 J**	ND	ND	ND	0.05	0.006*
beta-BHC	ND	ND	**0.0221 JD**	ND	ND	ND	0.05	0.019
gamma-BHC	ND	0.0318 JD	ND	ND	ND	ND	0.05	0.2
Endosulfan I	ND	ND	0.0426 J	ND	ND	ND	0.1	NE
Endrin	ND	0.0478 JD	ND	ND	ND	ND	2	0.1
4,4"-DDT	ND	ND	0.0343 JD	ND	ND	ND	0.1	0.1
Methoxychlor	ND	ND	0.0779 JD	ND	ND	ND	1	35
MISCELLANEOUS (µg/L)							**SWSL (ug/L)**	**NCAC 2L STD (ug/L)**
Total Cyanide	ND	ND	ND	ND	ND	ND	10	70
Total Sulfide	ND	134	ND	ND	ND	ND	1000	NE
METALS (in ug/L)							**SWSL (ug/L)**	**NCAC 2L STD (ug/L)**
Antimony	ND	ND	ND	ND	ND	ND	6	1.4*
Arsenic	ND	6.4 J	ND	ND	ND	ND	10	50
Barium	125 B	701 B	127 B	76.1 JB	39.8 JB	56.6 JB	100	2000
Beryllium	ND	ND	ND	ND	ND	ND	1	4*
Cadmium	0.18 J	0.16 J	0.3 J	0.17 J	0.3 J	ND	1	1.75
Chromium	3.36 JB	6.8 JB	4.76 JB	3 JB	3.09 JB	2.48 JB	10	50
Cobalt	**19.9**	**10.60**	**12.3**	ND	ND	ND	10	2*
Copper	2.35 J	2.64 J	2.31 J	2.34 J	2.44 J	1.86 J	10	1000
Lead	ND	ND	ND	ND	ND	ND	10	15
Mercury	ND	ND	ND	ND	ND	ND	0.20	1.05
Nickel	ND	3.47 J	3.91 J	ND	2.75 J	2.43 J	50	100
Selenium	4.14 J	17.00	4.59 J	ND	4.22 J	ND	10	50
Silver	7.15 JB	8.22 JB	7.77 JB	6.95 JB	6.92 JB	6.87 JB	10	17.5
Thallium	ND	ND	ND	ND	ND	ND	5.5	0.28*
Tin	5.34 JB	12.9 JB	5.12 JB	5.36 JB	6.02 JB	4 JB	100.0	NE
Vanadium	ND	ND	ND	ND	ND	1.42	25	25*
Zinc	ND	ND	ND	ND	ND	ND	10	1050

Notes:
Values in boldface exceed the corresponding 15A NCAC 2L .0202 groundwater quality standard for Class GA groundwater.
NCAC 2L STD = North Carolina Groundwater Standard established in Title 15A of North Carolina Administrative Code Subchapter 2L
J = Estimated value above laboratory method detection limit and below SWSL or reporting limit.
B = Analyte found in associated field and/or laboratory blank. NE = Not Established
NS = Not Sampled, No sample exists for this sampling period ND = None detected above laboratory method detection limit.
SWSL = Solid Waste Section Limit
* Solid Waste Section Groundwater Protection Standard

APPENDIX A

Well Construction Diagrams and Completion Forms

MW-3a

NON RESIDENTIAL WELL CONSTRUCTION RECORD

North Carolina Department of Environment and Natural Resources- Division of Water Quality

WELL CONTRACTOR CERTIFICATION # 2494

1. WELL CONTRACTOR:

Buck DEMARest
Well Contractor (Individual) Name

BORE : CORE INC.
Well Contractor Company Name

STREET ADDRESS 2817 BRENTON PLACE

RALEIGH N.C. 27604
City or Town State Zip Code

(919) - 872. 9551
Area code- Phone number

2. WELL INFORMATION:

SITE WELL ID #(if applicable) MW-3

STATE WELL PERMIT#(if applicable)

DWQ or OTHER PERMIT #(if applicable)

WELL USE (Check Applicable Box) Monitoring ☑ Municipal/Public ☐

Industrial/Commercial ☐ Agricultural ☐ Recovery ☐ Injection ☐

Irrigation☐ Other ☐ (list use)

DATE DRILLED 8.10.09

TIME COMPLETED 11:30 AM ☑ PM ☐

3. WELL LOCATION:

CITY: Greenville N.C. COUNTY PITT

802 Recyling Lane 27834
(Street Name, Numbers, Community, Subdivision, Lot No., Parcel, Zip Code)

TOPOGRAPHIC / LAND SETTING:

☐Slope ☐Valley ☐Flat ☐Ridge ☐ Other Sli slope
(check appropriate box)

LATITUDE 3 ___ ___

LONGITUDE ___ ___ ___

May be in degrees, minutes, seconds or in a decimal format

Latitude/longitude source: ☐GPS ☐Topographic map

(location of well must be shown on a USGS topo map and attached to this form if not using GPS)

4. FACILITY- is the name of the business where the well is located.

FACILITY ID #(if applicable) EJE

NAME OF FACILITY E.J.E LANDFILL

STREET ADDRESS 802 Recyling Lane

Greenville N.C. 27834
City or Town State Zip Code

CONTACT PERSON Wayne

MAILING ADDRESS E.J.E LANDFILL 802 Recyling Ln

Greenville N.C. 27834
City or Town State Zip Code

(_____)-_____
Area code - Phone number

5. WELL DETAILS:

a. **TOTAL DEPTH:** 20.0 Ft

b. **DOES WELL REPLACE EXISTING WELL?** YES ☐ NO ☑

c. **WATER LEVEL** Below Top of ~~Casing~~ SURFACE: 5.9 FT.
(Use "+" if Above Top of Casing)

d. **TOP OF CASING IS** 3.0 FT. Above Land Surface*
*Top of casing terminated at/or below land surface may require a variance in accordance with 15A NCAC 2C .0118.

e. **YIELD (gpm):** N/A **METHOD OF TEST**

f. **DISINFECTION: Type** NO **Amount**

g. **WATER ZONES** (depth):

From 20.0 To 5.9 From To
From To From To
From To From To

6. CASING:

From	To	Depth Ft.	Diameter	Thickness/ Weight	Material
5.0	+3.0		2"	Sch 40	P.V.C.

7. GROUT:

From	To	Depth Ft.	Material	Method
4.0	Surface			

8. SCREEN:

From	To	Depth Ft.	Diameter in.	Slot Size in.	Material
20.0	5.0		2"	.010	P.V.C.

9. SAND/GRAVEL PACK:

From	To	Depth Ft.	Size	Material
20.0	4.0		#2	Prewashed

Bentonite Seal 4.0-3.0

10. DRILLING LOG

From	To	Formation Description
0.0	4"	TOP SOIL
4"	1.6	BN Med SAND
1.6	12.9	Li TAN Med SAND
12.9	20.0	BLUE GRY Med SANDY CLAY W/ HEAVY SHELLS

11. REMARKS:

* 8-12-09 INSTALLED WELL TAG AND PAINTED TOP of WELL HEAD

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

SIGNATURE OF CERTIFIED WELL CONTRACTOR — DATE 8.13.09

DEMARest
PRINTED NAME OF PERSON CONSTRUCTING THE WELL

Submit the original to the Division of Water Quality within 30 days. Attn: Information Mgt., 1617 Mail Service Center – Raleigh, NC 27699-1617 Phone No. (919) 733-7015 ext 568.

Form GW-1b
Rev. 7/05

MW.9

NON RESIDENTIAL WELL CONSTRUCTION RECORD

North Carolina Department of Environment and Natural Resources- Division of Water Quality

WELL CONTRACTOR CERTIFICATION # 2494

1. WELL CONTRACTOR:

Buck DEMAREST
Well Contractor (Individual) Name

BORE : CORE INC.
Well Contractor Company Name

STREET ADDRESS 2817 BREWTON PLACE

RALEIGH N.C. 27604
City or Town State Zip Code

(919) - 872.9551
Area code- Phone number

2. WELL INFORMATION:

SITE WELL ID #(if applicable) MW.9

STATE WELL PERMIT#(if applicable)

DWQ or OTHER PERMIT #(if applicable)

WELL USE (Check Applicable Box) Monitoring ☑ Municipal/Public ☐

Industrial/Commercial ☐ Agricultural ☐ Recovery ☐ Injection ☐

Irrigation☐ Other ☐ (list use)

DATE DRILLED 8.7.09

TIME COMPLETED N/A AM ☑ PM ☐

3. WELL LOCATION:

CITY: Greenville N.C. COUNTY PITT

802 Recyling Lane 27834
(Street Name, Numbers, Community, Subdivision, Lot No., Parcel, Zip Code)

TOPOGRAPHIC / LAND SETTING:

☑ Slope ☐ Valley ☐ Flat ☐ Ridge ☐ Other LOW AREA
(check appropriate box)

LATITUDE 3 ___ ___

LONGITUDE ___ ___ ___

May be in degrees, minutes, seconds or in a decimal format

Latitude/longitude source: ☐ GPS ☐ Topographic map

(location of well must be shown on a USGS topo map and attached to this form if not using GPS)

4. FACILITY- is the name of the business where the well is located.

FACILITY ID #(if applicable) EJE

NAME OF FACILITY E.J.E LANDFILL

STREET ADDRESS 802 RECYLING LANE

Greenville N.C. 27834
City or Town State Zip Code

CONTACT PERSON WAYNE

MAILING ADDRESS E.J.E LANDFILL 802 RECYLING LA

Greenville N.C. 27834
City or Town State Zip Code

(_____)- _____
Area code - Phone number

5. WELL DETAILS:

a. **TOTAL DEPTH:** 20.0 FT

b. **DOES WELL REPLACE EXISTING WELL?** YES ☐ NO ☑

c. **WATER LEVEL** Below Top of ~~Casing~~ SURFACE: 3.1 FT.
(Use "+" if Above Top of Casing)

d. **TOP OF CASING IS** 3.0 FT. Above Land Surface*
*Top of casing terminated at/or below land surface may require a variance in accordance with 15A NCAC 2C .0118.

e. **YIELD (gpm):** N/A **METHOD OF TEST** _____

f. **DISINFECTION: Type** NO **Amount** _____

g. **WATER ZONES** (depth):

From 20.0 To 3.1 From ___ To ___
From ___ To ___ From ___ To ___
From ___ To ___ From ___ To ___

6. CASING:

	Depth		Diameter	Thickness/ Weight	Material
From 5.0	To +3.0	Ft.	2"	SCH 40	P.V.C.
From ___	To ___	Ft.			
From ___	To ___	Ft.			

7. GROUT:

	Depth		Material	Method
From 4.0	To Surface	Ft.		
From ___	To ___	Ft.		
From ___	To ___	Ft.		

8. SCREEN:

	Depth		Diameter		Slot Size		Material
From 20.0	To 5.0	Ft.	2"	in.	.010	in.	P.V.C.
From ___	To ___	Ft.		in.		in.	
From ___	To ___	Ft.		in.		in.	

9. SAND/GRAVEL PACK:

	Depth		Size	Material
From 20.0	To 4.0	Ft.	#2	PREWASHED
From ___	To ___	Ft.		
From ___	To ___	Ft.		

Bentonite SEAL 4.0-3.0

10. DRILLING LOG

From	To	Formation Description
0.0	3.0	Fill MATERIAL with BRICK CONCRETE - MED SAND
3.0	5.9	GRAY - WET SHI SILTY MED SAND
5.9	13.7	TAN, GRAY CO, MED SAND
13.7	20.0	BLUE - GRAY PLASTIC CLAY W/ HEAVY SHELLS

11. REMARKS:

* 8.12.09 INSTALLED WELL TAG AND PAINTED TOP of WELL HEAD

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

SIGNATURE OF CERTIFIED WELL CONTRACTOR — DATE 8.13.09

DEMAREST
PRINTED NAME OF PERSON CONSTRUCTING THE WELL

Submit the original to the Division of Water Quality within 30 days. Attn: Information Mgt., 1617 Mail Service Center – Raleigh, NC 27699-1617 Phone No. (919) 733-7015 ext 568.

Form GW-1b
Rev. 7/05

MW-10

NON RESIDENTIAL WELL CONSTRUCTION RECORD

North Carolina Department of Environment and Natural Resources- Division of Water Quality

WELL CONTRACTOR CERTIFICATION # 2494

1. WELL CONTRACTOR:

Buck DEMAREST
Well Contractor (Individual) Name

BORE : CORE INC.
Well Contractor Company Name

STREET ADDRESS 2817 BREWTON PLACE

RALEIGH N.C. 27604
City or Town State Zip Code

(919)- 872-9551
Area code- Phone number

2. WELL INFORMATION:

SITE WELL ID #(if applicable) MW-10

STATE WELL PERMIT#(if applicable)

DWQ or OTHER PERMIT #(if applicable)

WELL USE (Check Applicable Box) Monitoring ☑ Municipal/Public ☐

Industrial/Commercial ☐ Agricultural ☐ Recovery ☐ Injection ☐

Irrigation☐ Other ☐ (list use)

DATE DRILLED 8-6-09

TIME COMPLETED N/A AM ☐ PM ☑

3. WELL LOCATION:

CITY: Greenville N.C. COUNTY PITT

802 Recyling Lane 27834
(Street Name, Numbers, Community, Subdivision, Lot No., Parcel, Zip Code)

TOPOGRAPHIC / LAND SETTING:

☑ Slope ☐ Valley ☐ Flat ☐ Ridge ☐ Other
(check appropriate box)

LATITUDE 3 ___ ___

LONGITUDE ___ ___ ___

May be in degrees, minutes, seconds or in a decimal format

Latitude/longitude source: ☐ GPS ☐ Topographic map

(location of well must be shown on a USGS topo map and attached to this form if not using GPS)

4. FACILITY- is the name of the business where the well is located.

FACILITY ID #(if applicable) EJE

NAME OF FACILITY E.J.E LANDFILL

STREET ADDRESS 802 RECYLING LANE

Greenville N.C. 27834
City or Town State Zip Code

CONTACT PERSON WAYNE

MAILING ADDRESS E.J.E LANDFILL 802 RECYLING LA

Greenville N.C. 27834
City or Town State Zip Code

(_____)-
Area code - Phone number

5. WELL DETAILS:

a. TOTAL DEPTH: 20.0 FT

b. DOES WELL REPLACE EXISTING WELL? YES ☐ NO ☑

c. WATER LEVEL Below Top of ~~Casing~~ SURFACE: 1.7 FT.
(Use "+" if Above Top of Casing)

d. TOP OF CASING IS 3.0 FT. Above Land Surface*
*Top of casing terminated at/or below land surface may require a variance in accordance with 15A NCAC 2C .0118.

e. YIELD (gpm): N/A METHOD OF TEST

f. DISINFECTION: Type NO Amount

g. WATER ZONES (depth):

From 20.0 To 1.7 From To
From To From To
From To From To

6. CASING:

From	To	Depth	Diameter	Thickness/ Weight	Material
5.0	+3.0	Ft.	2"	Sch 40	P.V.C.
		Ft.			
		Ft.			

7. GROUT:

From	To	Depth	Material	Method
4.0	SURFACE	Ft.		
		Ft.		
		Ft.		

8. SCREEN:

From	To	Depth	Diameter	Slot Size	Material
20.0	5.0	Ft.	2" in.	.010 in.	P.V.C.
		Ft. in.	in.	in.	
		Ft. in.	in.	in.	

9. SAND/GRAVEL PACK:

From	To	Depth	Size	Material
20.0	4.0	Ft.	#2	Prewashed
		Ft.		
		Ft.		

Bentonite Seal 4.0-3.0

10. DRILLING LOG

From	To	Formation Description
0.0	2.1	Black Med Sandy Silt w/Root Fibers
2.1	3.0	Gray - Sli silty Med Sand - Wet
3.0	7.1	Gray Med Sand
7.1	8.0	Gray - Vi loose Med Sand
8.0	20.0	Blue Gray Fi, Med Sandy Clay with shells

11. REMARKS:

* 8-12-09 - Installed Well Tag And Painted Top of Well Head

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

SIGNATURE OF CERTIFIED WELL CONTRACTOR — DATE 8-13-09

DEMAREST
PRINTED NAME OF PERSON CONSTRUCTING THE WELL

Submit the original to the Division of Water Quality within 30 days. Attn: Information Mgt., 1617 Mail Service Center – Raleigh, NC 27699-1617 Phone No. (919) 733-7015 ext 568.

Form GW-1b
Rev. 7/05

MW-11

NON RESIDENTIAL WELL CONSTRUCTION RECORD

North Carolina Department of Environment and Natural Resources- Division of Water Quality

WELL CONTRACTOR CERTIFICATION # 2494

1. WELL CONTRACTOR:

Buck DEMARest
Well Contractor (Individual) Name

BORE : CORE INC.
Well Contractor Company Name

STREET ADDRESS 2817 BREWTON PLACE

RALEIGH N.C. 27604
City or Town State Zip Code

(919)- 872-9551
Area code- Phone number

2. WELL INFORMATION:

SITE WELL ID #(if applicable) MW-11

STATE WELL PERMIT#(if applicable)

DWQ or OTHER PERMIT #(if applicable)

WELL USE (Check Applicable Box) Monitoring ☑ Municipal/Public ☐

Industrial/Commercial ☐ Agricultural ☐ Recovery ☐ Injection ☐

Irrigation ☐ Other ☐ (list use)

DATE DRILLED 8.6.09

TIME COMPLETED N/A AM ☑ PM ☐

3. WELL LOCATION:

CITY: Greenville N.C. COUNTY PITT

802 Recyling Lane 27834
(Street Name, Numbers, Community, Subdivision, Lot No., Parcel, Zip Code)

TOPOGRAPHIC / LAND SETTING:

☑ Slope ☐ Valley ☐ Flat ☐ Ridge ☐ Other
(check appropriate box)

LATITUDE 3 ___ ___

LONGITUDE ___ ___ ___

May be in degrees, minutes, seconds or in a decimal format

Latitude/longitude source: ☐ GPS ☐ Topographic map

(location of well must be shown on a USGS topo map and attached to this form if not using GPS)

4. FACILITY- is the name of the business where the well is located.

FACILITY ID #(if applicable) EJE

NAME OF FACILITY E.J.E LANDFILL

STREET ADDRESS 802 RECYLING LANE

Greenville N.C. 27834
City or Town State Zip Code

CONTACT PERSON WAYNE

MAILING ADDRESS E.J.E LANDFILL 802 RECYLING LA

Greenville N.C. 27834
City or Town State Zip Code

(_____)-_____
Area code - Phone number

5. WELL DETAILS:

a. TOTAL DEPTH: 20.0 FT

b. DOES WELL REPLACE EXISTING WELL? YES ☐ NO ☑

c. WATER LEVEL Below Top of ~~Casing~~ SURFACE: 1.1 FT.
(Use "+" if Above Top of Casing)

d. TOP OF CASING IS 3.0 FT. Above Land Surface*
*Top of casing terminated at/or below land surface may require a variance in accordance with 15A NCAC 2C .0118.

e. YIELD (gpm): N/A METHOD OF TEST

f. DISINFECTION: Type NO Amount

g. WATER ZONES (depth):

From 20.0 To 1.1 From To
From To From To
From To From To

6. CASING:

From	To	Depth Ft.	Diameter	Thickness/ Weight	Material
5.0	+3.0		2"	SCH 40	P.V.C.

7. GROUT:

From	To	Depth Ft.	Material	Method
4.0	SURFACE			

8. SCREEN:

From	To	Depth Ft.	Diameter in.	Slot Size in.	Material
20.0	5.0		2"	.010	P.V.C.

9. SAND/GRAVEL PACK:

From	To	Depth Ft.	Size	Material
20.0	4.0		#2	Pacwashed

Bentonite Seal 4.0-3.0

10. DRILLING LOG

From	To	Formation Description
0.0	1.1	DARK BLACK BN F. MED SANDY SILT
1.1	2.9	GRAY DARK BN F. SANDY CLAY with with Root Fibers
2.9	5.5	BLUE GREEN MED SANDY Clay with shells
5.5	20.0	Green - Med SANDY Clay with Heavy shells

11. REMARKS:

8.12.09 Installed Well Tag And Painted Top of Well Head

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

SIGNATURE OF CERTIFIED WELL CONTRACTOR — DATE 8.13.09

DEMARest
PRINTED NAME OF PERSON CONSTRUCTING THE WELL

Submit the original to the Division of Water Quality within 30 days. Attn: Information Mgt., 1617 Mail Service Center – Raleigh, NC 27699-1617 Phone No. (919) 733-7015 ext 568.

Form GW-1b
Rev. 7/05

MW-12-S

NON RESIDENTIAL WELL CONSTRUCTION RECORD

North Carolina Department of Environment and Natural Resources- Division of Water Quality

WELL CONTRACTOR CERTIFICATION # 2494

1. WELL CONTRACTOR:

Buck DEMAREST
Well Contractor (Individual) Name

BORE : CORE INC.
Well Contractor Company Name

STREET ADDRESS 2817 BREWTON PLACE
RALEIGH N.C. 27604
City or Town State Zip Code

(919)- 872-9551
Area code- Phone number

2. WELL INFORMATION:

SITE WELL ID #(if applicable) MW-12-S

STATE WELL PERMIT#(if applicable)

DWQ or OTHER PERMIT #(if applicable)

WELL USE (Check Applicable Box) Monitoring ☑ Municipal/Public ☐
Industrial/Commercial ☐ Agricultural ☐ Recovery ☐ Injection ☐
Irrigation ☐ Other ☐ (list use)

DATE DRILLED 8-7-09

TIME COMPLETED N/A AM ☑ PM ☐

3. WELL LOCATION:

CITY: Greenville N.C. COUNTY PITT
802 Recyling Lane 27834
(Street Name, Numbers, Community, Subdivision, Lot No., Parcel, Zip Code)

TOPOGRAPHIC / LAND SETTING:
☑ Slope ☐ Valley ☐ Flat ☐ Ridge ☐ Other
(check appropriate box)

LATITUDE 3 ___ ___
LONGITUDE ___ ___ ___

May be in degrees, minutes, seconds or in a decimal format

Latitude/longitude source: ☐ GPS ☐ Topographic map
(location of well must be shown on a USGS topo map and attached to this form if not using GPS)

4. FACILITY- is the name of the business where the well is located.

FACILITY ID #(if applicable) EJE

NAME OF FACILITY E.J.E LANDFILL

STREET ADDRESS 802 Recyling Lane
Greenville N.C. 27834
City or Town State Zip Code

CONTACT PERSON Wayne

MAILING ADDRESS E.J.E LANDFILL 802 Recyling LA
Greenville N.C. 27834
City or Town State Zip Code

(_____)-
Area code - Phone number

5. WELL DETAILS:

a. TOTAL DEPTH: 20.0 Ft

b. DOES WELL REPLACE EXISTING WELL? YES ☐ NO ☑

c. WATER LEVEL Below Top of ~~Casing~~ SURFACE: 2.1 FT.
(Use "+" if Above Top of Casing)

d. TOP OF CASING IS 3.0 FT. Above Land Surface*
*Top of casing terminated at/or below land surface may require a variance in accordance with 15A NCAC 2C .0118.

e. YIELD (gpm): N/A METHOD OF TEST

f. DISINFECTION: Type NO Amount

g. WATER ZONES (depth):
From 20' To 2.1 From To
From To From To
From To From To

6. CASING:

From	To	Ft.	Diameter	Thickness/ Weight	Material
5.0	+3.0		2"	SCH 40	P.V.C.

7. GROUT:

From	To	Ft.	Material	Method
4.0	SURFACE			

8. SCREEN:

From	To	Ft.	Diameter	Slot Size	Material
20.0	5.0		2" in.	.010 in.	P.V.C.
			in.	in.	
			in.	in.	

9. SAND/GRAVEL PACK:

From	To	Ft.	Size	Material
20.0	4.0		#2	Prewashed

10. DRILLING LOG Bentonite SEAL 4.0-3.0

From	To	Formation Description
0.0	2.0	Fill- PLACED BY DOZER
2.0	3.1	Residual- Heavy STAINED Co, Med SAND
3.1	5.5	Wet TAN, Co, Med SAND
5.5	9.5	Wet TAN Co, Med SAND with CLAY LENS
9.5	12.8	LI TAN F SAND
12.8	16.1	BLUE GRAY PLASTIC CLAY with TRACES of SHELL
16.1	20.0	BLUE GRAY PLASTIC CLAY with heavy SHELLS

11. REMARKS:

8-12-09- Installed Well Tag And Painted Top of Well HEAD

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

SIGNATURE OF CERTIFIED WELL CONTRACTOR — DATE 8-13-09

DEMAREST
PRINTED NAME OF PERSON CONSTRUCTING THE WELL

Submit the original to the Division of Water Quality within 30 days. Attn: Information Mgt., 1617 Mail Service Center – Raleigh, NC 27699-1617 Phone No. (919) 733-7015 ext 568.

Form GW-1b
Rev. 7/05

MW-13

NON RESIDENTIAL WELL CONSTRUCTION RECORD

North Carolina Department of Environment and Natural Resources- Division of Water Quality

WELL CONTRACTOR CERTIFICATION # 2494

1. WELL CONTRACTOR:

Buck DEMARest
Well Contractor (Individual) Name

BORE : CORE INC.
Well Contractor Company Name

STREET ADDRESS 2817 BRENTON PLACE

RALEIGH N.C. 27604
City or Town State Zip Code

(919)- 872-9551
Area code- Phone number

2. WELL INFORMATION:

SITE WELL ID #(if applicable) MW-13

STATE WELL PERMIT#(if applicable)

DWQ or OTHER PERMIT #(if applicable)

WELL USE (Check Applicable Box) Monitoring ☑ Municipal/Public ☐

Industrial/Commercial ☐ Agricultural ☐ Recovery ☐ Injection ☐

Irrigation☐ Other ☐ (list use)

DATE DRILLED 8-7-09

TIME COMPLETED N/A AM ☐ PM ☑

3. WELL LOCATION:

CITY: Greenville N.C. COUNTY PITT

802 Recycling Lane 27834
(Street Name, Numbers, Community, Subdivision, Lot No., Parcel, Zip Code)

TOPOGRAPHIC / LAND SETTING:

☐Slope ☐Valley ☐Flat ☑Ridge ☐ Other Sli Ridge - Fill
(check appropriate box)

LATITUDE 3 ___ ___

LONGITUDE ___ ___ ___

May be in degrees, minutes, seconds or in a decimal format

Latitude/longitude source: ☐GPS ☐Topographic map

(location of well must be shown on a USGS topo map and attached to this form if not using GPS)

4. FACILITY- is the name of the business where the well is located.

FACILITY ID #(if applicable) EJE

NAME OF FACILITY E.J.E LANDFILL

STREET ADDRESS 802 Recycling Lane

Greenville N.C. 27834
City or Town State Zip Code

CONTACT PERSON WAYNE

MAILING ADDRESS E.J.E LANDFILL 802 Recycling LA

Greenville N.C. 27834
City or Town State Zip Code

(_____)-_____
Area code - Phone number

5. WELL DETAILS:

a. TOTAL DEPTH: 20.0 Ft

b. DOES WELL REPLACE EXISTING WELL? YES ☐ NO ☑

c. WATER LEVEL Below Top of ~~Casing~~ SURFACE: 5.1 FT.
(Use "+" if Above Top of Casing)

d. TOP OF CASING IS 3.0 FT. Above Land Surface*
*Top of casing terminated at/or below land surface may require a variance in accordance with 15A NCAC 2C .0118.

e. YIELD (gpm): N/A METHOD OF TEST

f. DISINFECTION: Type NO Amount

g. WATER ZONES (depth):

From 20.0 To 5.1 From To

From To From To

From To From To

6. CASING:

From	To	Ft.	Diameter	Thickness/ Weight	Material
5.0	+3.0		2"	Sch 40	P.V.C.

7. GROUT:

From	To	Ft.	Material	Method
4.0	Surface			

8. SCREEN:

From	To	Ft.	Diameter	Slot Size	Material
20.0	5.0		2" in.	.010 in.	P.V.C.
			in.	in.	
			in.	in.	

9. SAND/GRAVEL PACK:

From	To	Ft.	Size	Material
20.0	4.0		#2	Prewashed

Bentonite Seal 4.0-3.0

10. DRILLING LOG

From	To	Formation Description
0.0	4.0	Fill- Tan, Bn Vi Clean Med Sand Hit- Concrete- Glass At 2.9-3.2
4.0	5.7	Residual- Black Fi Med sandy clay
5.7	8.1	Tan, V. clayey Med Sand with wood
8.1	12.5	Blue Gray Fi sandy clay with wood
12.5	20.0	Blue, Gray Fi sandy Plastic clay with shells

11. REMARKS:

* 8-12-09- Installed Well Tag And Painted Top of Well Head

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

SIGNATURE OF CERTIFIED WELL CONTRACTOR 8-13-09 DATE

DEMARest
PRINTED NAME OF PERSON CONSTRUCTING THE WELL

Submit the original to the Division of Water Quality within 30 days. Attn: Information Mgt., 1617 Mail Service Center – Raleigh, NC 27699-1617 Phone No. (919) 733-7015 ext 568.

Form GW-1b
Rev. 7/05

APPENDIX B

Drilling Logs

David Garrett and Associates — *Boring No. MW-3A*

Engineering and Geology — *Depths in feet, referenced b.g.s.* — *Page **1** of **1***

Client and Project	C&D Landfill, Inc. (Pitt County)			Ground Elevation	19.13
Equipment	CME 450	Drilling Method	4-1/4" HSA	Water Level, TOB	5.9
Date Started	08/10/09	Date Ended	08/10/09	Water Level, 24 Hr.	NA
Drilling Firm	Bore & Core, Inc.	Logged by	Aaron Hill	Stabilized Level	11.4
Comments	TOC Elev. 21.93	Total Depth	20.0	Observation Date	08/10/09

Elev.	SPT Depth, Value and Plot	Strata Depth and Description (USCS)	Piezometer Constuction Data

N = 0 20 40 60 80 100 BPF

Depth	N	Strata Description	USCS
1.0	3 4 5	CLAYEY SAND: Topsoil with roots	
1.6		SILTY SAND: Loose orange sli. clayey, fine - medium, trace of roots, sli. moist	SM
3.5	4 4 5		SM
6.0	7 7 7		SM
8.5	5 6 7	SAND: Medium dense, tan-buff, well graded fine to coarse, moist-wet	SW
12.9		SILTY CLAY: Stiff, gray-green, fine sandy, with heavy shell hash (turritellas) wet, medium plasticity	ML-CL
13.5	3 4 4		
18.5	2 2 3	Boring Terminated at 20.0 feet	ML-CL

Elev. 18, 16, 14, 12, 10, 8, 6, 4, 2, 0

Piezometer Construction:

- Bentonite-Cement Grout 0 - 3'
- Bentonite Seal 3 - 4'
- Sand Pack 4 - 20'
- 0.010" Slotted Screen 5 - 20'

David Garrett and Associates — *Boring No. MW-9A*

Engineering and Geology — *Depths in feet, referenced b.g.s.* —

Client and Project	C&D Landfill, Inc. (Pitt County)			Ground Elevation	17.64
Equipment	CME 450	Drilling Method	4-1/4" HSA	Water Level, TOB	3.1
Date Started	08/07/09	Date Ended	08/07/09	Water Level, 24 Hr.	NA
Drilling Firm	Bore & Core, Inc.	Logged by	Aaron Hill	Stabilized Level	4.8
Comments	TOC Elev. 20.58	Total Depth	20.0	Observation Date	08/10/09

Elev.	SPT Depth, Value and Plot		Strata Depth and Description (USCS)		Piezometer Constuction Data
	N = 0 20 40 60 80 100 BPF				
16	1.0	3 4 5	2.1 SILTY SAND: FILL with brick and concrete fragments	SM	Bentonite-Cement Grout 0 - 3'
14	3.5	10 12 13	CLAY: Med. stiff, orange-tan-gray (mottled), fine sandy, very moist	CL	Bentonite Seal 3 - 4'
12	6.0	5 5 6	5.9 SAND: Medium dense, light gray-buff, sli. silty, well graded fine to medium, wet	SW-SM	
10	8.5	4 5 5		SW-SM	
8					Sand Pack 4 - 20'
6					
4	13.5	4 4 5	13.7 SILTY CLAY: Med. stiff, gray-green, sli. fine sandy, with heavy shell hash (turritellas) wet, medium plasticity	ML-CL	
2					0.010" Slotted Screen 5 - 20'
0			Artesian water press. at 12 feet		
2	18.5	2 2 3	Boring Terminated at 20.0 feet	ML-CL	

David Garrett and Associates — *Boring No. MW-10*

Engineering and Geology — *Depths in feet, referenced b.g.s.* —

Client and Project	C&D Landfill, Inc. (Pitt County)			Ground Elevation	14.16
Equipment	CME 450	Drilling Method	4-1/4" HSA	Water Level, TOB	2.7
Date Started	08/06/09	Date Ended	08/06/09	Water Level, 24 Hr.	NA
Drilling Firm	Bore & Core, Inc.	Logged by	Aaron Hill	Stabilized Level	4.8
Comments	TOC Elev. 16.61	Total Depth	20.0	Observation Date	08/10/09

Elev.	SPT Depth, Value and Plot	Strata Depth and Description (USCS)	Piezometer Constuction Data

N = 0 20 40 60 80 100 BPF

Depth	N	Strata Description	USCS
1.0	1 1 5	SILT: Soft, dark brown, fine sandy, organic, very moist	ML
2.1		SAND: Med. dense, tan-buff, uniform fine grained, wet	SP
3.5	9 13 12		
6.0	9 12 2		
7.1		SAND: Loose, tan-buff, sli. silty	SW
8.0		SILTY CLAY: Soft, gray-green, sli. fine sandy, with heavy shell hash (turritellas) wet, distict sand and clay layers	ML-CL
8.5	3 3 2		
13.5	3 2 3		ML-CL
18.5	3 3 3	Boring Terminated at 20.0 feet	ML-CL

Elevation scale: 14, 12, 10, 8, 6, 4, 2, 0, 2, 4

Piezometer Construction Data:

- Bentonite-Cement Grout 0 - 3'
- Bentonite Seal 3 - 4'
- Sand Pack 4 - 20'
- 0.010" Slotted Screen 5 - 20'

David Garrett and Associates — *Boring No. MW-11*

Engineering and Geology — *Depths in feet, referenced b.g.s.* —

Client and Project	C&D Landfill, Inc. (Pitt County)			Ground Elevation	11.60
Equipment	CME 450	Drilling Method	4-1/4" HSA	Water Level, TOB	6.1
Date Started	08/06/09	Date Ended	08/06/09	Water Level, 24 Hr.	NA
Drilling Firm	Bore & Core, Inc.	Logged by	Aaron Hill	Stabilized Level	3.1
Comments	TOC Elev. 14.49	Total Depth	20.0	Observation Date	08/10/09

Elev.	SPT Depth, Value and Plot (N = 0 20 40 60 80 100 BPF)	Strata Depth and Description (USCS)	Piezometer Constuction Data
10	1.0: 2 2 3	SAND: Loose, dark brown, silty, fine - medium, tr. clay, moist (SM)	Bentonite-Cement Grout 0 - 3'
8	3.5: 1 1 0	CLAY: Very soft, green-gray, silty, fine sandy, w/ turritella shell hash, wet (SC-CL)	Bentonite Seal 3 - 4'
6	6.0: 2 3 2	CLAY: Soft - med. stiff, gray-green, fine sandy, very silty, with shell hash (turritellas) wet, very sandy layer w/ large shell fragments at 9.5 - 10 feet (ML-CL)	
4	8.5: 4 5 6	(SC-CL)	Sand Pack 4 - 20'
2	13.5: 5 5 8	(MH-CH)	0.010" Slotted Screen 5 - 20'
0	18.5: 5 7 7	SILTY CLAY: Med. stiff, gray-green, sli. fine sandy, wet, very plastic (MH-CH)	
2			
4			
6			
8		Boring Terminated at 20.0 feet	

Strata boundaries: 2.9, 5.5, 14.5

David Garrett and Associates — *Boring No. MW-12D*

Engineering and Geology — *Depths in feet, referenced b.g.s.* —

Client and Project	C&D Landfill, Inc. (Pitt County)			Ground Elevation	15.24
Equipment	Detrich D-10	Drilling Method	4-1/4" HSA	Water Level, TOB	5.5
Date Started	12/11/02	Date Ended	12/11/02	Water Level, 24 Hr.	5.0
Drilling Firm	Bore & Core, Inc.	Logged by	David Garrett	Stabilized Level	4.5
Comments	TOC Elev. 17.93	Total Depth	40.0	Observation Date	01/15/03

Elev.	SPT Depth, Value and Plot	Strata Depth and Description (USCS)	Piezometer Constuction Data

N = 0 20 40 60 80 100 BPF

Depth	SPT Depth	N-value	Strata Depth	Description	USCS
1.0	1.0	4 4 9	3.2	SAND: Loose, tan, fine to medium	SM
3.5	3.5	7 4 7	10.9	SAND: Medium dense, tan-orange, slightly silty	SW
6.0	6.0	4 6 7			SW
8.5	8.5	5 7 11			SW
13.5	13.5	3 4 4		SILTY CLAY: Medium stiff, gray, w/fine sand, shells	ML-CL
18.5	18.5	4 5 6			ML-CL
23.5	23.5	3 4 6			ML-CL

Piezometer Construction Data:

Converted from piezometer B-11

Bentonite-Cement Grout 0-32'

David Garrett and Associates — *Boring No. MW-12D*

Engineering and Geology — *Depths in feet, referenced b.g.s.* —

Client and Project	C&D Landfill, Inc. (Pitt County)			Ground Elevation	15.24
Equipment	Detrich D-10	Drilling Method	4-1/4" HSA	Water Level, TOB	5.5
Date Started	12/11/02	Date Ended	12/11/02	Water Level, 24 Hr.	5.0
Drilling Firm	Bore & Core, Inc.	Logged by	David Garrett	Stabilized Level	4.5
Comments	TOC Elev. 17.93	Total Depth	40.0	Observation Date	01/15/03

Elev.	SPT Depth, Value and Plot		Strata Depth and Description (USCS)		Piezometer Constuction Data
	N = 0 20 40 60 80 100 BPF				
12			27.6 SILTY CLAY: Medium stiff, gray, w/fine sand, shells		
14	28.5	50/.3	SILTY SAND: Very dense, partly cemented, green-black	CL	
16					
18	33.5	24 12 36		SM	Bentonite Seal 32-34'
20			36.2		
22			SILTY SAND: Very dense, green-gray, clayey, w/shells		Sand Pack 34-40'
24	38.5	16 25 50/.3	Boring Terminated at 40.0 feet	SM	0.010" Slotted Screen 35-40'

David Garrett and Associates — *Boring No. MW-12S*

Engineering and Geology — *Depths in feet, referenced b.g.s.* —

Client and Project	C&D Landfill, Inc. (Pitt County)			Ground Elevation	13.72
Equipment	CME 450	Drilling Method	4-1/4" HSA	Water Level, TOB	2.1
Date Started	08/07/09	Date Ended	08/07/09	Water Level, 24 Hr.	NA
Drilling Firm	Bore & Core, Inc.	Logged by	Aaron Hill	Stabilized Level	5.3
Comments	TOC Elev. 16.18	Total Depth	20.0	Observation Date	08/10/09

Elev.	SPT Depth, Value and Plot (N = 0 20 40 60 80 100 BPF)		Strata Depth and Description (USCS)		Piezometer Constuction Data
12	1.0	1 2 5	2.0 SAND: FILL, Loose, brown, silty, moist (drilling pad)	SM	Bentonite-Cement Grout 0 - 3'
10	3.5	10 12 13	SAND: Loose, tan-gray. sli. silty, fine-medium, black decayed organic debris, wet	SW-SM	Bentonite Seal 3 - 4'
8	6.0	5 9 10		SW-SM	
6	8.5	5 7 3	Loose, white, clean "sugar sand"	SP	
4			9.5 / 10.0		Sand Pack 4 - 20'
2			SILTY CLAY: Med. stiff, gray-green, sli. fine sandy, moist, w/ shells, very plastic		
0	13.5	3 4 5		MH-CH	
2					0.010" Slotted Screen 5 - 20'
4					
6	18.5	5 7 7	Boring Terminated at 20.0 feet	MH-CH	

David Garrett and Associates — *Boring No. MW-13*

Engineering and Geology — *Depths in feet, referenced b.g.s.* —

Client and Project	C&D Landfill, Inc. (Pitt County)			Ground Elevation	18.12
Equipment	CME 450	Drilling Method	4-1/4" HSA	Water Level, TOB	5.1
Date Started	08/07/09	Date Ended	08/07/09	Water Level, 24 Hr.	NA
Drilling Firm	Bore & Core, Inc.	Logged by	Aaron Hill	Stabilized Level	8.8
Comments	TOC Elev. 20.69	Total Depth	20.0	Observation Date	08/10/09

Elev.	SPT Depth, Value and Plot	Strata Depth and Description (USCS)	Piezometer Constuction Data

N = 0 20 40 60 80 100 BPF

Depth	N	Strata Description	USCS
1.0	2 3 3	SILTY SAND: Loose, brown, fine-medium, w/ clay, roots, dry (perimeter embankment fill)	SW-SM
3.5	3 5 5	CLAYEY SAND: Loose, tan, fine-medium, w/ wood, moist	SC
6.0	1 1 1	SILTY SAND: Very loose, tan-brown, w/ tr. clay, wood	SM
8.5	7 9 10	SILTY CLAY: Stiff, green-gray, sli. fine sandy, w/wood	ML-CL
13.5	5 6 6	SILTY CLAY: Stiff, gray-green, sli. fine sandy, w/ heavy shell hash (turritellas), moist, very plastic	MH-CH
18.5	4 5 5	Boring Terminated at 20.0 feet	MH-CH

Strata boundaries: 4.0, 5.7, 8.1, 12.5

Piezometer construction:
- Bentonite-Cement Grout 0 - 3'
- Bentonite Seal 3 - 4'
- Sand Pack 4 - 20'
- 0.010" Slotted Screen 5 - 20'

David Garrett and Associates — *Boring No. MW-14D*

Engineering and Geology — *Depths in feet, referenced b.g.s.* —

Client and Project	C&D Landfill, Inc. (Pitt County)			Ground Elevation	14.54
Equipment	Detrich D-10	Drilling Method	4-1/4" HSA	Water Level, TOB	2.9
Date Started	12/17/02	Date Ended	12/17/02	Water Level, 24 Hr.	3.0
Drilling Firm	Bore & Core, Inc.	Logged by	David Garrett	Stabilized Level	4.0
Comments	TOC Elev. 17.45	Total Depth	40.0	Observation Date	08/10/09

Elev.	SPT Depth, Value and Plot	Strata Depth and Description (USCS)	Piezometer Constuction Data

N = 0 20 40 60 80 100 BPF

Depth	N	Strata Description	USCS
1.0	2 5 5	SILTY SAND: Medium dense tan-brown, fine to medium	SM
3.5	6 10 9	SAND: Medium dense, tan, medium to coarse	SP
6.0	7 10 7		SW
8.5	4 3 5	CLAYEY SAND: Medium dense, dark gray	SC
13.5	4 5 6	SILTY CLAY: Stiff, dark gray, fine sand layers, shell layers, becomes sandy with shell hash below 28.4 feet	ML-CL
18.5	4 6 6		CH
23.5	4 5 6		CH

Strata boundaries: 3.1, 7.9, 12.7

Elev. scale: 14, 12, 10, 8, 6, 4, 2, 0, 2, 4, 6, 8, 10

Piezometer Construction Data: Converted from piezometer B-23d; Bentonite-Cement Grout 0-32'

David Garrett and Associates — *Boring No. MW-14D*

Engineering and Geology — *Depths in feet, referenced b.g.s.* —

Client and Project	C&D Landfill, Inc. (Pitt County)			Ground Elevation	14.54
Equipment	Detrich D-10	Drilling Method	4-1/4" HSA	Water Level, TOB	2.9
Date Started	12/17/02	Date Ended	12/17/02	Water Level, 24 Hr.	3.0
Drilling Firm	Bore & Core, Inc.	Logged by	David Garrett	Stabilized Level	4.0
Comments	TOC Elev. 17.45	Total Depth	40.0	Observation Date	08/10/09

Elev.	SPT Depth, Value and Plot		Strata Depth and Description (USCS)		Piezometer Constuction Data
	N = 0 20 40 60 80 100 BPF				
12			SILTY CLAY: Stiff, dark gray, fine sand layers, shell layers, becomes sandy with shell hash below 28.4 feet	SC-CL	
14	28.5	21 17 16			
16					Bentonite Seal 32-33'
18			32.8		
	33.5	50/.4	SAND: Very dense, dark gray, silty, glauconitic, shell hash	SM	
20					Sand Pack 33-40'
22					0.010" Slotted Screen 35-40'
24	38.5	29 50/.5	Boring Terminated at 40.0 feet	SM	

David Garrett and Associates — *Boring No. MW-14S*

Engineering and Geology — *Depths in feet, referenced b.g.s.* — *Page **1** of **1***

Client and Project	C&D Landfill, Inc. (Pitt County)			Ground Elevation	13.90
Equipment	Detrich D-10	Drilling Method	4-1/4" HSA	Water Level, TOB	3.0
Date Started	12/18/02	Date Ended	12/18/02	Water Level, 24 Hr.	2.2
Drilling Firm	Bore & Core, Inc.	Logged by	David Garrett	Stabilized Level	2.0
Comments	TOC Elev. 16.60	Total Depth	20.0	Observation Date	08/10/09

Elev.	SPT Depth, Value and Plot	Strata Depth and Description (USCS)	Piezometer Constuction Data

N = 0 20 40 60 80 100 BPF

SPT Depth	Blows	Strata Depth	Description	USCS
1.0	2 5 5	3.1	SILTY SAND: Medium dense tan-brown, fine to medium	SM
3.5	6 10 9	7.9	SAND: Medium dense, tan, medium to coarse	SP
6.0	7 10 7			SW
8.5	4 3 5	12.7	CLAYEY SAND: Medium dense, dark gray	SC
13.5	4 5 6		SILTY CLAY: Stiff, dark gray, fine sand layers, shell layers, becomes sandy with shell hash below 28.4 feet	ML-CL
18.5	4 6 6		Boring Terminated at 20.0 feet	CH

Elevation scale: 12, 10, 8, 6, 4, 2, 0, 2, 4, 6

Piezometer construction data:

- Converted from piezometer B-23s
- Bentonite-Cement Grout 0-1'
- Bentonite Seal 1-3'
- Sand Pack 3-20'
- 0.010" Slotted Screen 5-20'

APPENDIX C

Groundwater Sampling Forms

Well/Piezo ID: MW-3A

Ground Water Sample Collection Record

Client: David Garrett
Project No:
Site Location: C&D Landfill/Pitt Co.
Weather Conds: Sunny; 90°F Collector(s) AARON HILL

Date: 8/ 11 /09
Time: Start 1310 am/pm
Finish 1410 am/pm

WATER LEVEL DATA: (measured from Top of Casing) Well ☑ Piezometer ☐

a. Total Well Length 25.34 c. Casing Material pvc e. Length of Water Column NA (a-b)

b. Water Table Depth 14.15 d. Casing Diamete 2" f. Calculated Well Volume (see back) NA

WELL PURGING DATA

a. Purge Method _____ Low Flow 300 ml/min

b. Acceptance Criteria defined (from workplan)
- Minimum Required Purge Volume (@ N/A well volumes) N/A
- Maximum Allowable Turbidity N/A NTUs
- Stabilization of parameters 10 %

c. Field Testing Equipment Used:

Make	Model	Serial Number
YSI 556		
HACH	2100P	

d. Field Testing Equipment Calibration Documentation Found in Field Notebook # _____ Page # _____

Time	Volume Removed (ml)	TEMP C	pH S.U.	Spec. Cond (umhos)	TURBIDITY NTUs	D.O. mg/l	Color	Odor	DTW
1315	~~FNT~~	21.44	6.83	1,038	10	7.51	clear	None	14.16
1322	2100	19.28	6.54	949	5	2.15	↓	↓	↓
1326	3300	19.27	6.52	938	3	1.89	↓	↓	↓
1330	4500	19.26	6.52	936	1	1.84	↓	↓	↓
1335	6000	19.24	6.51	932	1	1.79	↓	↓	↓

e. Acceptance criteria pass/fail

	Yes	No	N/A
Has required volume been removed	☒	☐	☐
Has required turbidity been reached	☒	☐	☐
Have parameters stabilized	☒	☐	☐

If no or N/A - Explain below.

SAMPLE COLLECTION: Method: Pump tubing

Sample ID	Container Type	No. of Containers	Preservation	Analysis	Time
	~~various~~		~~various~~	~~APP1 Parameters~~	—
MW-3A	various		various	APP2 Parameters	1338

Comments

Signature Aaron Hill Date 8/ 11 /09

Well/Piezo ID: MW-3s

Ground Water Sample Collection Record

Client: David Garrett
Project No:
Site Location: C&D Landfill/Pitt Co.
Weather Conds: Sunny; 90's Collector(s) AARON HILL

Date: 8/11/09
Time: Start 1148 am/pm
Finish 1300 am/pm

WATER LEVEL DATA: (measured from Top of Casing) Well ☑ Piezometer ☐

a. Total Well Length _____ c. Casing Material pvc e. Length of Water Column NA (a-b)

b. Water Table Depth 13.18 d. Casing Diamete 2" f. Calculated Well Volume (see back) NA

WELL PURGING DATA

a. Purge Method _____ Low Flow 300 ml/min

b. Acceptance Criteria defined (from workplan)
- Minimum Required Purge Volume (@ N/A well volumes) N/A
- Maximum Allowable Turbidity N/A NTUs
- Stabilization of parameters 10 %

c. Field Testing Equipment Used:

Make	Model	Serial Number
YSI 556		
HACH	2100P	

d. Field Testing Equipment Calibration Documentation Found in Field Notebook # _____ Page # _____

Time	Volume Removed (ml)	TEMP C	pH S.U.	Spec. Cond (umhos)	TURBIDITY NTUs	D.O. mg/l	Color	Odor	DTW
1152	INT	21.64	6.66	2,995	12	2.70	clear	slight	13.20
1155	900	21.10	6.64	2,991	4	0.64	↓	↓	↓
1200	2400	21.07	6.63	2,750	2	0.50	↓	↓	↓
1207	4500	21.04	6.63	2747	1	0.49	↓	↓	↓
1210	5400	21.00	6.61	2,744	1	0.43	↓	↓	↓

e. Acceptance criteria pass/fail

	Yes	No	N/A
Has required volume been removed	☑	☐	☐
Has required turbidity been reached	☒	☐	☐
Have parameters stabilized	☒	☐	☐

If no or N/A - Explain below.

SAMPLE COLLECTION: Method: Pump tubing

Sample ID	Container Type	No. of Containers	Preservation	Analysis	Time
	~~various~~		~~various~~	~~ARP1 Parameters~~	—
MW-3S	various		various	ARP2 Parameters	1213

Comments

Signature Aa Hill Date 8/11/09

Well/Piezo ID: MW-8

Ground Water Sample Collection Record

Client: David Garrett
Project No:
Site Location: C&D Landfill/Pitt Co.
Weather Conds: Sunny, 100's Collector(s) AARON HILL

Date: 8/ 10 /09
Time: Start 1450 am/pm
Finish 1640 am/pm

WATER LEVEL DATA: (measured from Top of Casing) Well ☑ Piezometer ☐

a. Total Well Length 20.10 c. Casing Material pvc e. Length of Water Column NA (a-b)

b. Water Table Depth 10.92 d. Casing Diamete 2" f. Calculated Well Volume (see back) NA

WELL PURGING DATA

a. Purge Method _____ Low Flow 200 ml/min

b. Acceptance Criteria defined (from workplan)
- Minimum Required Purge Volume (@ N/A well volumes) N/A
- Maximum Allowable Turbidity N/A NTUs
- Stabilization of parameters 10 %

c. Field Testing Equipment Used:

Make	Model	Serial Number
YSI 556		
HACH	2100P	

d. Field Testing Equipment Calibration Documentation Found in Field Notebook # _____ Page # _____

Time	Volume Removed (ml)	TEMP C	pH S.U.	Spec. Cond (umhos)	TURBIDITY NTUs	D.O. mg/l	Color	Odor	DTW
1455	INT	22.44	6.51	1,338	8	6.02	clear	none	10.94
1505	2000	22.08	6.34	1,342	7	1.08	↓	↓	10.96
1512	~~3~~3400	21.44	6.31	1,344	6	0.44	↓	↓	↓
1517	4400	21.36	6.29	1,346	4	0.31	↓	↓	↓
1522	5400	21.30	6.29	1,347	4	0.30	↓	↓	↓

e. Acceptance criteria pass/fail

	Yes	No	N/A
Has required volume been removed	☒	☐	☐
Has required turbidity been reached	☒	☐	☐
Have parameters stabilized	☒	☐	☐

If no or N/A - Explain below.

SAMPLE COLLECTION: Method: Pump tubing

Sample ID	Container Type	No. of Containers	Preservation	Analysis	Time
	~~various~~		~~various~~	~~APP1 Parameters~~	
MW 8	various		various	APP2 Parameters	1525

Comments

Signature [signature] Date 8/ 10 /09

Well/Piezo ID: MW-10

Ground Water Sample Collection Record

Client: David Garrett
Project No:
Site Location: C&D Landfill/Pitt Co.
Weather Conds: Sunny, 90°F Collector(s) AARON HILL

Date: 8/10/09
Time: Start 1110 am/pm
Finish 1235 am/pm

WATER LEVEL DATA: (measured from Top of Casing) Well ☑ Piezometer ☐

a. Total Well Length 25.25 c. Casing Material pvc e. Length of Water Column NA (a-b)

b. Water Table Depth 7.26 d. Casing Diamete 2" f. Calculated Well Volume (see back) NA

WELL PURGING DATA

a. Purge Method _____ Low Flow 200 ml/min

b. Acceptance Criteria defined (from workplan)
- Minimum Required Purge Volume (@ N/A well volumes) N/A
- Maximum Allowable Turbidity N/A NTUs
- Stabilization of parameters 10 %

c. Field Testing Equipment Used:

Make	Model	Serial Number
YSI 556		
HACH	2100P	

d. Field Testing Equipment Calibration Documentation Found in Field Notebook # _____ Page # _____

Time	Volume Removed (ml)	TEMP C	pH S.U.	Spec. Cond (umhos)	TURBIDITY NTUs	D.O. mg/l	Color	Odor	DTW
1115	INT	21.47	7.41	303	34	8.86	clear	None	7.28
1125	2000	21.67	6.82	290	28	6.29	↓	↓	↓
1135	4000	21.69	6.74	278	14	5.81	↓	↓	↓
1145	6000	21.71	6.71	275	10	5.76	↓	↓	↓
1155	8000	21.72	6.70	273	7	5.64	↓	↓	↓

e. Acceptance criteria pass/fail

	Yes	No	N/A
Has required volume been removed	☑	☐	☐
Has required turbidity been reached	☒	☐	☐
Have parameters stabilized	☒	☐	☐

If no or N/A - Explain below.

SAMPLE COLLECTION: Method: Pump tubing

Sample ID	Container Type	No. of Containers	Preservation	Analysis	Time
	~~various~~		~~various~~	~~APP1 Parameters~~	~~1157~~
MW-10	various		various	APP2 Parameters	1157

Comments

Signature Aaron Hill Date 8/10/09

Well/Piezo ID: MW-11

Ground Water Sample Collection Record

Client: David Garrett
Project No:
Site Location: C&D Landfill/Pitt Co.
Weather Conds: Sunny, 100's Collector(s) AARON HILL

Date: 8/10/09
Time: Start 1325 am/pm
Finish 1440 am/pm

WATER LEVEL DATA: (measured from Top of Casing) Well ☑ Piezometer ☐

a. Total Well Length 25.26 c. Casing Material pvc e. Length of Water Column NA (a-b)

b. Water Table Depth 6.00 d. Casing Diamete 2" f. Calculated Well Volume (see back) NA

WELL PURGING DATA

a. Purge Method _____ Low Flow 200 ml/min

b. Acceptance Criteria defined (from workplan)
- Minimum Required Purge Volume (@ N/A well volumes) N/A
- Maximum Allowable Turbidity N/A NTUs
- Stabilization of parameters 10 %

c. Field Testing Equipment Used:

Make	Model	Serial Number
YSI 556		
HACH	2100P	

d. Field Testing Equipment Calibration Documentation Found in Field Notebook # _____ Page # _____

Time	Volume Removed (ml)	TEMP C	pH S.U.	Spec. Cond (umhos)	TURBIDITY NTUs	D.O. mg/l	Color	Odor	DTW
1328	FNT	21.04	6.83	553	18	12.50	clear	None	6.12
1335	1400	22.38	6.24	558	14	6.69	↓	↓	↓
1342	2800	22.79	6.20	564	12	5.49			
1347	3800	23.12	6.19	561	8	5.38			
1350	4400	23.47	6.19	568	5	5.34			

e. Acceptance criteria pass/fail

	Yes	No	N/A
Has required volume been removed	☒	☐	☐
Has required turbidity been reached	☒	☐	☐
Have parameters stabilized	☒	☐	☐

If no or N/A - Explain below

SAMPLE COLLECTION: Method: Pump tubing

Sample ID	Container Type	No. of Containers	Preservation	Analysis	Time
~~MW-11~~	~~various~~		~~various~~	~~APP1 Parameters~~	~~[illegible]~~
MW-11	various		various	APP2 Parameters	1353

Comments

Signature [signature] Date 8/10/09

Well/Piezo ID: MW-12S

Ground Water Sample Collection Record

Client: David Garrett
Project No:
Site Location: C&D Landfill/Pitt Co.
Weather Conds: Sunny, 80's Collector(s) AARON HILL

Date: 8/ 11 /09
Time: Start 0825 am/pm
Finish 0953 am/pm

WATER LEVEL DATA: (measured from Top of Casing) Well ☑ Piezometer ☐

a. Total Well Length 25.35 c. Casing Material pvc e. Length of Water Column NA (a-b)

b. Water Table Depth 7.73 d. Casing Diamete 2" f. Calculated Well Volume (see back) NA

WELL PURGING DATA

a. Purge Method _____ Low Flow 300 ml/min

b. Acceptance Criteria defined (from workplan)
- Minimum Required Purge Volume (@ N/A well volumes) N/A
- Maximum Allowable Turbidity N/A NTUs
- Stabilization of parameters 10 %

c. Field Testing Equipment Used:

Make	Model	Serial Number
YSI 556		
HACH	2100P	

d. Field Testing Equipment Calibration Documentation Found in Field Notebook # _____ Page # _____

Time	Volume Removed (ml)	TEMP C	pH S.U.	Spec. Cond (umhos)	TURBIDITY NTUs	D.O. mg/l	Color	Odor	DTW
0830	INT	21.44	6.71	223	11	4.05	clear	none	7.74
0850	6000	21.46	6.31	179	9	0.98	↓	↓	↓
0905	10500	21.46	6.24	174	6	0.95	↓	↓	↓
0910	12000	21.47	6.23	172	6	0.93	↓	↓	↓

e. Acceptance criteria pass/fail

	Yes	No	N/A
Has required volume been removed	☒	☐	☐
Has required turbidity been reached	☒	☐	☐
Have parameters stabilized	☒	☐	☐

If no or N/A - Explain below.

SAMPLE COLLECTION: Method: Pump tubing

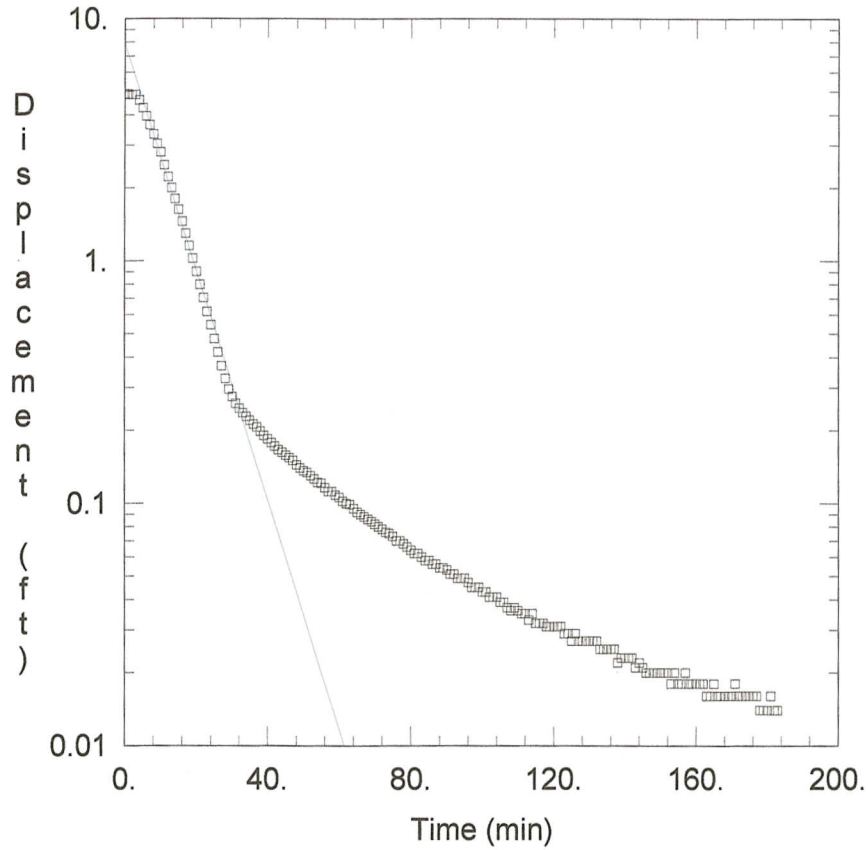
Sample ID	Container Type	No. of Containers	Preservation	Analysis	Time
	~~various~~		~~various~~	~~APP1 Parameters~~	0'
MW-12S	various		various	APP2 Parameters	0913

Comments

Signature [signature] Date 8/ 11 /09

APPENDIX D

Results of Rising-Head Permeability Tests



C&D LANDFILL

Data Set: C:\USERS\BRIAN\DOCUME~1\BRIANS\PROJECTS\DA\
Date: 09/16/09 Time: 10:05:20

PROJECT INFORMATION

Company: David Garrett & Associates
Client: EJE Recycling
Test Location: Greenville, NC
Test Well: MW-3A
Test Date: 8/24/09

SOLUTION

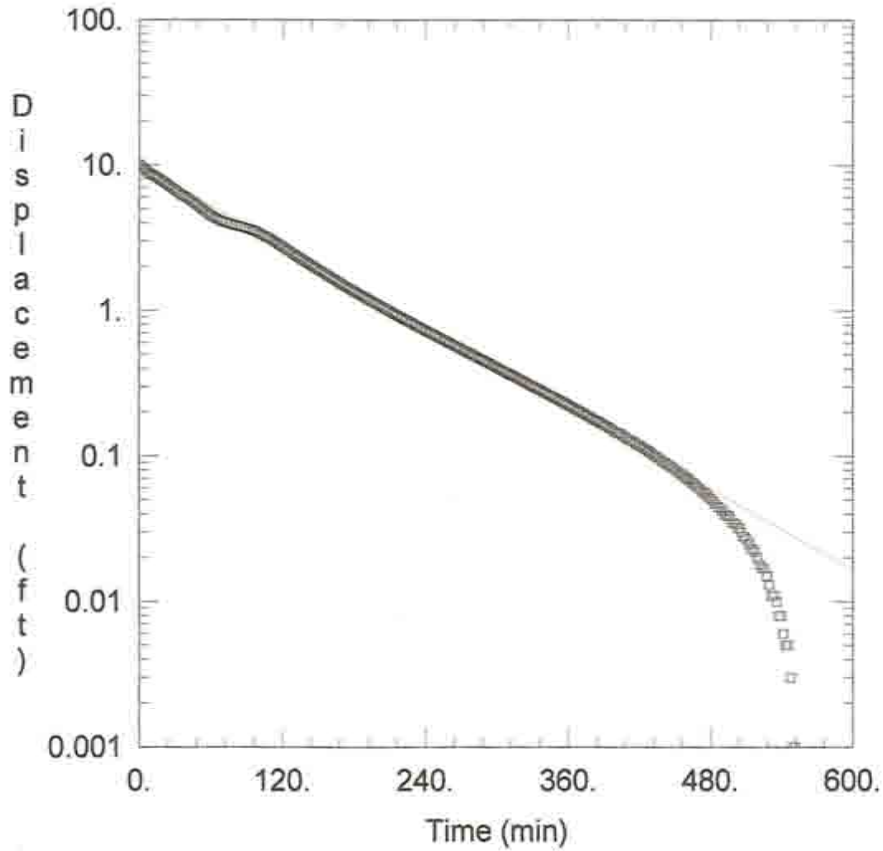
Aquifer Model: Unconfined
Solution Method: Bouwer-Rice
K = 0.0005588 ft/min
y0 = 7.874 ft

AQUIFER DATA

Saturated Thickness: 11.09 ft
Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA

Initial Displacement: 4.878 ft
Casing Radius: 0.0833 ft
Screen Length: 15. ft
Water Column Height: 11.09 ft
Wellbore Radius: 0.375 ft
Gravel Pack Porosity: 0.39



C&D LANDFILL

Data Set: C:\USERS\BRIAN\DOCUME~1\BRIANS\PROJECTS\DA\
Date: 09/16/09 Time: 10:16:41

PROJECT INFORMATION

Company: David Garrett & Associates
Client: EJE Recycling
Test Location: Greenville, NC
Test Well: MW-10
Test Date: 8/24/09

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice

K = 8.076E-05 ft/min
y0 = 9.837 ft

AQUIFER DATA

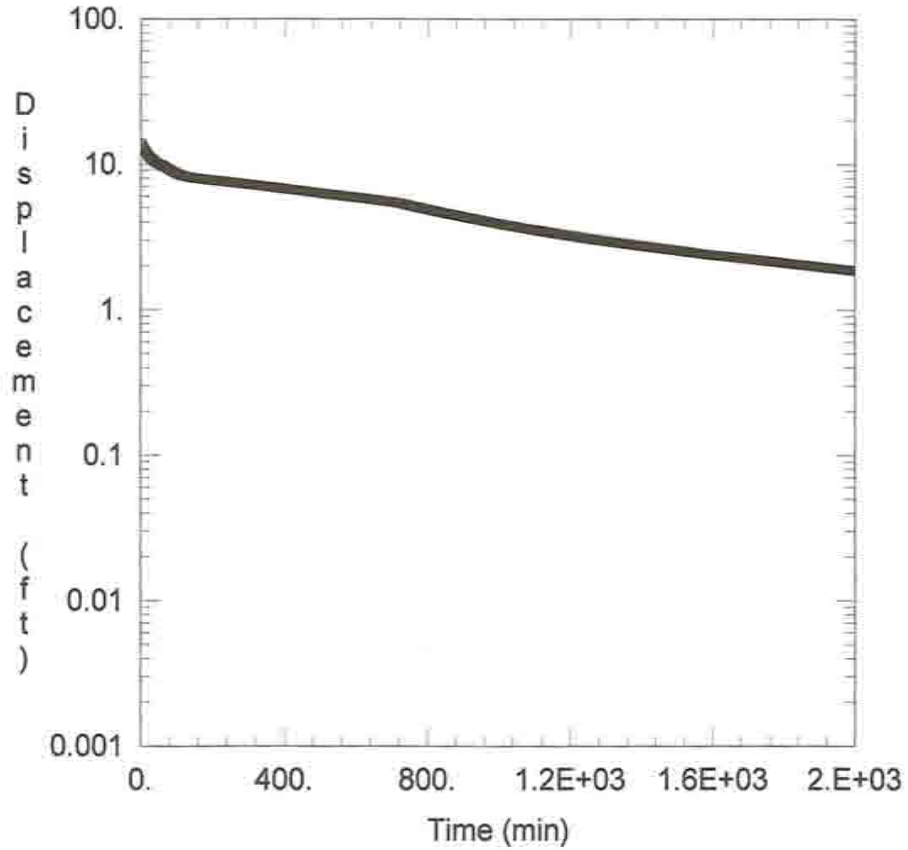
Saturated Thickness: 17.98 ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA

Initial Displacement: 10.15 ft
Casing Radius: 0.0833 ft
Screen Length: 15. ft

Water Column Height: 17.98 ft
Wellbore Radius: 0.375 ft
Gravel Pack Porosity: 0.39



C&D LANDFILL

Data Set: C:\USERS\BRIAN\DOCUME~1\BRIANS\PROJECTS\DA\
Date: 09/16/09 Time: 10:21:41

PROJECT INFORMATION

Company: David Garrett & Associates
Client: EJE Recycling
Test Location: Greenville, NC
Test Well: MW-11
Test Date: 8/24/09

SOLUTION

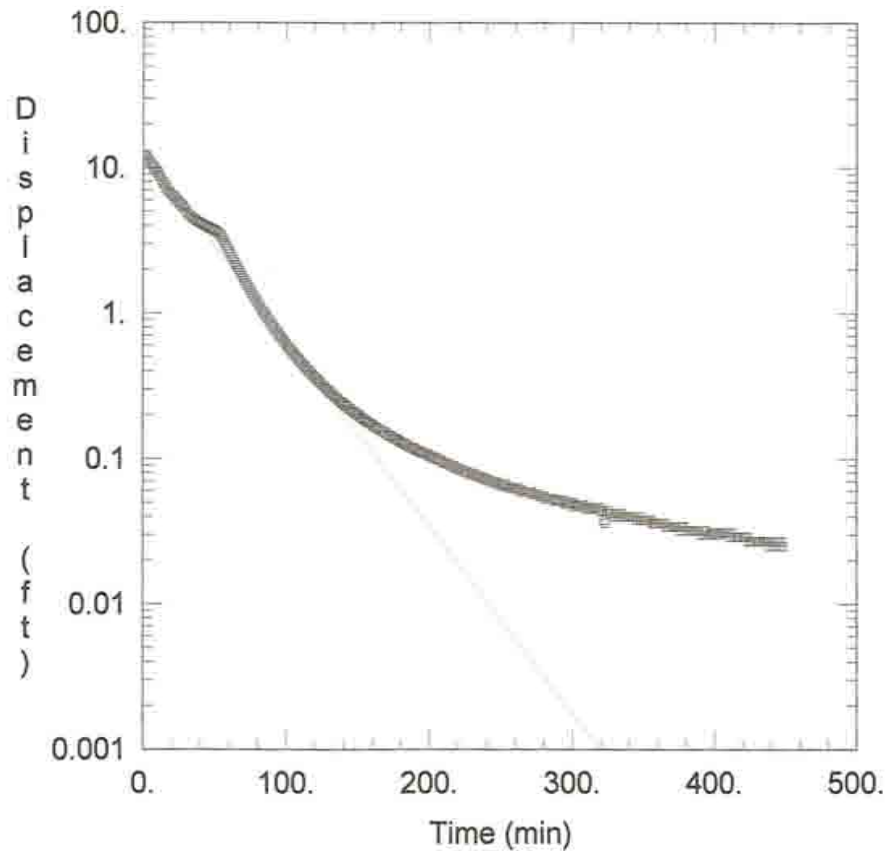
Aquifer Model: Unconfined
Solution Method: Bouwer-Rice
K = 6.262E-06 ft/min
y0 = 9.366 ft

AQUIFER DATA

Saturated Thickness: 19.88 ft
Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA

Initial Displacement: 13.92 ft
Casing Radius: 0.0833 ft
Screen Length: 15. ft
Water Column Height: 19.88 ft
Wellbore Radius: 0.375 ft
Gravel Pack Porosity: 0.39



C&D LANDFILL

Data Set: C:\USERS\BRIAN\DOCUME~1\BRIANS\PROJECTS\DA\
Date: 09/16/09 Time: 10:25:46

PROJECT INFORMATION

Company: David Garrett & Associates
Client: EJE Recycling
Test Location: Greenville, NC
Test Well: MW-12s
Test Date: 8/24/09

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice
K = 0.0002237 ft/min
y0 = 12.59 ft

AQUIFER DATA

Saturated Thickness: 17.63 ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA

Initial Displacement: 12.22 ft
Casing Radius: 0.0833 ft
Screen Length: 15. ft

Water Column Height: 17.63 ft
Wellbore Radius: 0.375 ft
Gravel Pack Porosity: 0.39

APPENDIX E

Laboratory Reports
And
Chain-of-Custody Records

SGS

Mr. David Garrett
Environmental Field Management
5105 Harbour Towne Dr.
Raleigh NC 27604

Report Number: G1081-2

Client Project: C&D Landfill, Inc.

Dear Mr. Garrett:

Enclosed are the results of the analytical services performed under the referenced project. The samples are certified to meet the requirements of the National Environmental Laboratory Accreditation Conference Standards. Copies of this report and supporting data will be retained in our files for a period of five years in the event they are required for future reference. Any samples submitted to our laboratory will will be retained for a maximum of thirty (30) days from the date of this report unless other arrangements are requested.

If there are any questions about the report or the services performed during this project, please call SGS at (910) 350-1903. We will be happy to answer any questions or concerns which you may have.

Thank you for using SGS Environmental Services for your analytical services. We look forward to working with you again on any additional analytical needs which you may have.

Sincerely,
SGS Environmental Services, Inc.

Project Manager
Lori Lockamy

26 August 2009
Date

SGS

Mr. Aaron Hill
Environmental Field Management
495 Beaumont Lane
Pittsboro NC 27312

Report Number: G1081-2

Client Project: C&D Landfill, Inc.

Dear Mr. Hill:

Enclosed are the results of the analytical services performed under the referenced project. The samples are certified to meet the requirements of the National Environmental Laboratory Accreditation Conference Standards. Copies of this report and supporting data will be retained in our files for a period of five years in the event they are required for future reference. Any samples submitted to our laboratory will will be retained for a maximum of thirty (30) days from the date of this report unless other arrangements are requested.

If there are any questions about the report or the services performed during this project, please call SGS at (910) 350-1903. We will be happy to answer any questions or concerns which you may have.

Thank you for using SGS Environmental Services for your analytical services. We look forward to working with you again on any additional analytical needs which you may have.

Sincerely,
SGS Environmental Services, Inc.

Project Manager Date
Lori Lockamy

List of Reporting Abbreviations
And Data Qualifiers

B = Compound also detected in batch blank

BQL = Below Quantification Limit (RL or MDL)

DF = Dilution Factor

Dup = Duplicate

D = Detected, but RPD is > 40% between results in dual column method.

E = Estimated concentration, exceeds calibration range.

J = Estimated concentration, below calibration range and above MDL

LCS(D) = Laboratory Control Spike (Duplicate)

MDL = Method Detection Limit

MS(D) = Matrix Spike (Duplicate)

PQL = Practical Quantitation Limit

RL/CL = Reporting Limit / Control Limit

RPD = Relative Percent Difference

UJ = Target analytes with recoveries that are 10% < %R < LCL; # of MEs are allowable and compounds are not detected in the sample.

mg/kg = milligram per kilogram, ppm, parts per million

ug/kg = micrograms per kilogram, ppb, parts per billion

mg/L = milligram per liter, ppm, parts per million

ug/L = micrograms per liter, ppb, parts per billion

% Rec = Percent Recovery

% soilds = Percent Solids

Special Notes:
1) Metals and mercury samples are digested with a hot block; see the standard operating procedure document for details.
2) Uncertainty for all reported data is less than or equal to 30 percent.

Results for Volatiles
by GCMS 8260 Appendix I

Client Sample ID: MW14s-081009
Client Project ID: C&D Landfill, Inc.
Lab Sample ID: G1081-2-1A
Lab Project ID: G1081-2

Analyzed By: DVO
Date Collected: 8/10/2009 9:00
Date Received: 8/12/2009
Matrix: Water
Sample Amount: 5 mL

Compound	Result UG/L	SWSL Limit UG/L	MDL UG/L	Dilution Factor	Date Analyzed	Flag
Acetone	BQL	100	2.18	1	8/21/2009	
Acetonitrile	BQL	55.0	2.58	1	8/21/2009	
Acrylonitrile	BQL	200	2.93	1	8/21/2009	
Benzene	BQL	1.00	0.0650	1	8/21/2009	
Bromochloromethane	BQL	3.00	0.101	1	8/21/2009	
Bromodichloromethane	BQL	1.00	0.0760	1	8/21/2009	
Bromoform	BQL	3.00	0.120	1	8/21/2009	
Bromomethane	BQL	10.0	0.133	1	8/21/2009	
2-butanone	BQL	100	0.544	1	8/21/2009	
Carbon disulfide	BQL	100	0.0690	1	8/21/2009	
Carbon tetrachloride	BQL	1.00	0.0870	1	8/21/2009	
Chlorobenzene	BQL	3.00	0.0820	1	8/21/2009	
Chloroethane	BQL	10.0	0.106	1	8/21/2009	
Chloroform	BQL	5.00	0.0790	1	8/21/2009	
Chloromethane	BQL	1.00	0.146	1	8/21/2009	
Dibromochloromethane	BQL	3.00	0.0900	1	8/21/2009	
1,2-Dibromo-3-chloropropane	BQL	13.0	1.21	1	8/21/2009	
Dibromomethane	BQL	10.0	0.113	1	8/21/2009	
1,2-Dibromoethane	BQL	1.00	0.124	1	8/21/2009	
1,2-Dichlorobenzene	BQL	5.00	0.127	1	8/21/2009	
1,3-Dichlorobenzene	BQL	5.00	0.0810	1	8/21/2009	
1,4-Dichlorobenzene	BQL	5.00	0.0790	1	8/21/2009	
t-1,4-Dichloro-2-butene	BQL	50.5	0.630	1	8/21/2009	
1,1-Dichloroethane	BQL	5.00	0.0740	1	8/21/2009	
1,1-Dichloroethene	BQL	5.00	0.0890	1	8/21/2009	
1,2-Dichloroethane	BQL	1.00	0.0790	1	8/21/2009	
cis-1,2-Dichloroethene	BQL	5.00	0.0650	1	8/21/2009	
t-1,2-dichloroethene	BQL	5.00	0.0890	1	8/21/2009	
1,2-Dichloropropane	BQL	1.00	0.0940	1	8/21/2009	
1,1-Dichloropropene	BQL	5.00	0.0720	1	8/21/2009	
cis-1,3-Dichloropropene	BQL	1.00	0.0760	1	8/21/2009	
t-1,3-Dichloropropene	BQL	1.00	0.0760	1	8/21/2009	
Ethylbenzene	BQL	1.00	0.0770	1	8/21/2009	
2-hexanone	BQL	50.0	0.720	1	8/21/2009	
Iodomethane	BQL	10.0	0.0420	1	8/21/2009	
Methylene chloride	BQL	1.00	0.0980	1	8/21/2009	
4-methyl-2-pentanone	BQL	100	0.550	1	8/21/2009	
Styrene	BQL	1.00	0.0850	1	8/21/2009	
1,1,1,2-Tetrachloroethane	BQL	5.00	0.0900	1	8/21/2009	
1,1,2,2-Tetrachloroethane	BQL	3.00	0.115	1	8/21/2009	
Tetrachloroethene	BQL	1.00	0.0690	1	8/21/2009	
Toluene	BQL	1.00	0.0760	1	8/21/2009	
Trichloroethene	BQL	1.00	0.0540	1	8/21/2009	
1,1,1-Trichloroethane	BQL	1.00	0.0540	1	8/21/2009	
1,1,2-Trichloroethane	BQL	1.00	0.182	1	8/21/2009	

Results for Volatiles
by GCMS 8260 Appendix I

Client Sample ID: MW14s-081009
Client Project ID: C&D Landfill, Inc.
Lab Sample ID: G1081-2-1A
Lab Project ID: G1081-2

Analyzed By: DVO
Date Collected: 8/10/2009 9:00
Date Received: 8/12/2009
Matrix: Water
Sample Amount: 5 mL

Compound	Result UG/L	SWSL Limit UG/L	MDL UG/L	Dilution Factor	Date Analyzed	Flag
Trichlorofluoromethane	BQL	1.00	0.111	1	8/21/2009	
1,2,3-Trichloropropane	BQL	1.00	0.120	1	8/21/2009	
Vinyl acetate	BQL	50.0	0.100	1	8/21/2009	
Vinyl chloride	BQL	1.00	0.149	1	8/21/2009	
Total Xylene	BQL	5.00	0.0650	1	8/21/2009	

	Spike Added	Spike Result	Percent Recovered
1,2-Dichloroethane-d4	10	9.72	97
Toluene-d8	10	10	100
4-Bromofluorobenzene	10	9.66	97

Comments:

Flags:
BQL = Below Quantitation Limits.

Analyst: _____

Reviewed By: _____

Results for Volatiles
by GCMS 8260 Appendix I

Client Sample ID: MW14d-081009
Client Project ID: C&D Landfill, Inc.
Lab Sample ID: G1081-2-2A
Lab Project ID: G1081-2

Analyzed By: DVO
Date Collected: 8/10/2009 10:05
Date Received: 8/12/2009
Matrix: Water
Sample Amount: 5 mL

Compound	Result UG/L	SWSL Limit UG/L	MDL UG/L	Dilution Factor	Date Analyzed	Flag
Acetone	BQL	100	2.18	1	8/21/2009	
Acetonitrile	BQL	55.0	2.58	1	8/21/2009	
Acrylonitrile	BQL	200	2.93	1	8/21/2009	
Benzene	BQL	1.00	0.0650	1	8/21/2009	
Bromochloromethane	BQL	3.00	0.101	1	8/21/2009	
Bromodichloromethane	BQL	1.00	0.0760	1	8/21/2009	
Bromoform	BQL	3.00	0.120	1	8/21/2009	
Bromomethane	BQL	10.0	0.133	1	8/21/2009	
2-butanone	BQL	100	0.544	1	8/21/2009	
Carbon disulfide	BQL	100	0.0690	1	8/21/2009	
Carbon tetrachloride	BQL	1.00	0.0870	1	8/21/2009	
Chlorobenzene	BQL	3.00	0.0820	1	8/21/2009	
Chloroethane	BQL	10.0	0.106	1	8/21/2009	
Chloroform	BQL	5.00	0.0790	1	8/21/2009	
Chloromethane	**0.210**	1.00	0.146	1	8/21/2009	J
Dibromochloromethane	BQL	3.00	0.0900	1	8/21/2009	
1,2-Dibromo-3-chloropropane	BQL	13.0	1.21	1	8/21/2009	
Dibromomethane	BQL	10.0	0.113	1	8/21/2009	
1,2-Dibromoethane	BQL	1.00	0.124	1	8/21/2009	
1,2-Dichlorobenzene	BQL	5.00	0.127	1	8/21/2009	
1,3-Dichlorobenzene	BQL	5.00	0.0810	1	8/21/2009	
1,4-Dichlorobenzene	BQL	5.00	0.0790	1	8/21/2009	
t-1,4-Dichloro-2-butene	BQL	50.5	0.630	1	8/21/2009	
1,1-Dichloroethane	BQL	5.00	0.0740	1	8/21/2009	
1,1-Dichloroethene	BQL	5.00	0.0890	1	8/21/2009	
1,2-Dichloroethane	BQL	1.00	0.0790	1	8/21/2009	
cis-1,2-Dichloroethene	BQL	5.00	0.0650	1	8/21/2009	
t-1,2-dichloroethene	BQL	5.00	0.0890	1	8/21/2009	
1,2-Dichloropropane	BQL	1.00	0.0940	1	8/21/2009	
1,1-Dichloropropene	BQL	5.00	0.0720	1	8/21/2009	
cis-1,3-Dichloropropene	BQL	1.00	0.0760	1	8/21/2009	
t-1,3-Dichloropropene	BQL	1.00	0.0760	1	8/21/2009	
Ethylbenzene	BQL	1.00	0.0770	1	8/21/2009	
2-hexanone	BQL	50.0	0.720	1	8/21/2009	
Iodomethane	BQL	10.0	0.0420	1	8/21/2009	
Methylene chloride	BQL	1.00	0.0980	1	8/21/2009	
4-methyl-2-pentanone	BQL	100	0.550	1	8/21/2009	
Styrene	BQL	1.00	0.0850	1	8/21/2009	
1,1,1,2-Tetrachloroethane	BQL	5.00	0.0900	1	8/21/2009	
1,1,2,2-Tetrachloroethane	BQL	3.00	0.115	1	8/21/2009	
Tetrachloroethene	BQL	1.00	0.0690	1	8/21/2009	
Toluene	BQL	1.00	0.0760	1	8/21/2009	
Trichloroethene	BQL	1.00	0.0540	1	8/21/2009	
1,1,1-Trichloroethane	BQL	1.00	0.0540	1	8/21/2009	
1,1,2-Trichloroethane	BQL	1.00	0.182	1	8/21/2009	

Results for Volatiles
by GCMS 8260 Appendix I

Client Sample ID: MW14d-081009
Client Project ID: C&D Landfill, Inc.
Lab Sample ID: G1081-2-2A
Lab Project ID: G1081-2

Analyzed By: DVO
Date Collected: 8/10/2009 10:05
Date Received: 8/12/2009
Matrix: Water
Sample Amount: 5 mL

Compound	Result UG/L	SWSL Limit UG/L	MDL UG/L	Dilution Factor	Date Analyzed	Flag
Trichlorofluoromethane	BQL	1.00	0.111	1	8/21/2009	
1,2,3-Trichloropropane	BQL	1.00	0.120	1	8/21/2009	
Vinyl acetate	BQL	50.0	0.100	1	8/21/2009	
Vinyl chloride	BQL	1.00	0.149	1	8/21/2009	
Total Xylene	BQL	5.00	0.0650	1	8/21/2009	

	Spike Added	Spike Result	Percent Recovered
1,2-Dichloroethane-d4	10	9.59	96
Toluene-d8	10	9.93	99
4-Bromofluorobenzene	10	9.62	96

Comments:

Flags:
BQL = Below Quantitation Limits.

Analyst: _____

Reviewed By: _____

Results for Volatiles
by GCMS 8260 Appendix I

Client Sample ID: MW13-081109
Client Project ID: C&D Landfill, Inc.
Lab Sample ID: G1081-2-3A
Lab Project ID: G1081-2

Analyzed By: CLP
Date Collected: 8/11/2009 10:28
Date Received: 8/12/2009
Matrix: Water
Sample Amount: 5 mL

Compound	Result UG/L	SWSL Limit UG/L	MDL UG/L	Dilution Factor	Date Analyzed	Flag
Acetone	BQL	100	2.18	1	8/21/2009	
Acetonitrile	BQL	55.0	2.58	1	8/21/2009	
Acrylonitrile	BQL	200	2.93	1	8/21/2009	
Benzene	BQL	1.00	0.0650	1	8/21/2009	
Bromochloromethane	BQL	3.00	0.101	1	8/21/2009	
Bromodichloromethane	BQL	1.00	0.0760	1	8/21/2009	
Bromoform	BQL	3.00	0.120	1	8/21/2009	
Bromomethane	BQL	10.0	0.133	1	8/21/2009	
2-butanone	BQL	100	0.544	1	8/21/2009	
Carbon disulfide	BQL	100	0.0690	1	8/21/2009	
Carbon tetrachloride	BQL	1.00	0.0870	1	8/21/2009	
Chlorobenzene	BQL	3.00	0.0820	1	8/21/2009	
Chloroethane	BQL	10.0	0.106	1	8/21/2009	
Chloroform	BQL	5.00	0.0790	1	8/21/2009	
Chloromethane	BQL	1.00	0.146	1	8/21/2009	
Dibromochloromethane	BQL	3.00	0.0900	1	8/21/2009	
1,2-Dibromo-3-chloropropane	BQL	13.0	1.21	1	8/21/2009	
Dibromomethane	BQL	10.0	0.113	1	8/21/2009	
1,2-Dibromoethane	BQL	1.00	0.124	1	8/21/2009	
1,2-Dichlorobenzene	BQL	5.00	0.127	1	8/21/2009	
1,3-Dichlorobenzene	BQL	5.00	0.0810	1	8/21/2009	
1,4-Dichlorobenzene	BQL	5.00	0.0790	1	8/21/2009	
t-1,4-Dichloro-2-butene	BQL	50.5	0.630	1	8/21/2009	
1,1-Dichloroethane	BQL	5.00	0.0740	1	8/21/2009	
1,1-Dichloroethene	BQL	5.00	0.0890	1	8/21/2009	
1,2-Dichloroethane	BQL	1.00	0.0790	1	8/21/2009	
cis-1,2-Dichloroethene	BQL	5.00	0.0650	1	8/21/2009	
t-1,2-dichloroethene	BQL	5.00	0.0890	1	8/21/2009	
1,2-Dichloropropane	BQL	1.00	0.0940	1	8/21/2009	
1,1-Dichloropropene	BQL	5.00	0.0720	1	8/21/2009	
cis-1,3-Dichloropropene	BQL	1.00	0.0760	1	8/21/2009	
t-1,3-Dichloropropene	BQL	1.00	0.0760	1	8/21/2009	
Ethylbenzene	BQL	1.00	0.0770	1	8/21/2009	
2-hexanone	BQL	50.0	0.720	1	8/21/2009	
Iodomethane	BQL	10.0	0.0420	1	8/21/2009	
Methylene chloride	BQL	1.00	0.0980	1	8/21/2009	
4-methyl-2-pentanone	BQL	100	0.550	1	8/21/2009	
Styrene	BQL	1.00	0.0850	1	8/21/2009	
1,1,1,2-Tetrachloroethane	BQL	5.00	0.0900	1	8/21/2009	
1,1,2,2-Tetrachloroethane	BQL	3.00	0.115	1	8/21/2009	
Tetrachloroethene	BQL	1.00	0.0690	1	8/21/2009	
Toluene	BQL	1.00	0.0760	1	8/21/2009	
Trichloroethene	BQL	1.00	0.0540	1	8/21/2009	
1,1,1-Trichloroethane	BQL	1.00	0.0540	1	8/21/2009	
1,1,2-Trichloroethane	BQL	1.00	0.182	1	8/21/2009	

Results for Volatiles
by GCMS 8260 Appendix I

Client Sample ID: MW13-081109
Client Project ID: C&D Landfill, Inc.
Lab Sample ID: G1081-2-3A
Lab Project ID: G1081-2

Analyzed By: CLP
Date Collected: 8/11/2009 10:28
Date Received: 8/12/2009
Matrix: Water
Sample Amount: 5 mL

Compound	Result UG/L	SWSL Limit UG/L	MDL UG/L	Dilution Factor	Date Analyzed	Flag
Trichlorofluoromethane	BQL	1.00	0.111	1	8/21/2009	
1,2,3-Trichloropropane	BQL	1.00	0.120	1	8/21/2009	
Vinyl acetate	BQL	50.0	0.100	1	8/21/2009	
Vinyl chloride	BQL	1.00	0.149	1	8/21/2009	
Total Xylene	BQL	5.00	0.0650	1	8/21/2009	

	Spike Added	Spike Result	Percent Recovered
1,2-Dichloroethane-d4	10	10.6	106
Toluene-d8	10	9.53	95
4-Bromofluorobenzene	10	9.38	94

Comments:

Flags:
BQL = Below Quantitation Limits.
J = Detected below the quantitation limit.

Analyst: _____

Reviewed By: _____

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Results for Volatiles
by GCMS 8260 Appendix I

Client Sample ID: MW9A-081109
Client Project ID: C&D Landfill, Inc.
Lab Sample ID: G1081-2-4A
Lab Project ID: G1081-2

Analyzed By: CLP
Date Collected: 8/11/2009 11:25
Date Received: 8/12/2009
Matrix: Water
Sample Amount: 5 mL

Compound	Result UG/L	SWSL Limit UG/L	MDL UG/L	Dilution Factor	Date Analyzed	Flag
Acetone	BQL	100	2.18	1	8/21/2009	
Acetonitrile	BQL	55.0	2.58	1	8/21/2009	
Acrylonitrile	BQL	200	2.93	1	8/21/2009	
Benzene	BQL	1.00	0.0650	1	8/21/2009	
Bromochloromethane	**0.480**	3.00	0.101	1	8/21/2009	J
Bromodichloromethane	**0.970**	1.00	0.0760	1	8/21/2009	J
Bromoform	**3.48**	3.00	0.120	1	8/21/2009	
Bromomethane	BQL	10.0	0.133	1	8/21/2009	
2-butanone	BQL	100	0.544	1	8/21/2009	
Carbon disulfide	BQL	100	0.0690	1	8/21/2009	
Carbon tetrachloride	BQL	1.00	0.0870	1	8/21/2009	
Chlorobenzene	BQL	3.00	0.0820	1	8/21/2009	
Chloroethane	BQL	10.0	0.106	1	8/21/2009	
Chloroform	**0.640**	5.00	0.0790	1	8/21/2009	J
Chloromethane	**0.330**	1.00	0.146	1	8/21/2009	J
Dibromochloromethane	**2.80**	3.00	0.0900	1	8/21/2009	J
1,2-Dibromo-3-chloropropane	BQL	13.0	1.21	1	8/21/2009	
Dibromomethane	**1.13**	10.0	0.113	1	8/21/2009	J
1,2-Dibromoethane	BQL	1.00	0.124	1	8/21/2009	
1,2-Dichlorobenzene	BQL	5.00	0.127	1	8/21/2009	
1,3-Dichlorobenzene	BQL	5.00	0.0810	1	8/21/2009	
1,4-Dichlorobenzene	BQL	5.00	0.0790	1	8/21/2009	
t-1,4-Dichloro-2-butene	BQL	50.5	0.630	1	8/21/2009	
1,1-Dichloroethane	BQL	5.00	0.0740	1	8/21/2009	
1,1-Dichloroethene	BQL	5.00	0.0890	1	8/21/2009	
1,2-Dichloroethane	BQL	1.00	0.0790	1	8/21/2009	
cis-1,2-Dichloroethene	BQL	5.00	0.0650	1	8/21/2009	
t-1,2-dichloroethene	BQL	5.00	0.0890	1	8/21/2009	
1,2-Dichloropropane	BQL	1.00	0.0940	1	8/21/2009	
1,1-Dichloropropene	BQL	5.00	0.0720	1	8/21/2009	
cis-1,3-Dichloropropene	BQL	1.00	0.0760	1	8/21/2009	
t-1,3-Dichloropropene	BQL	1.00	0.0760	1	8/21/2009	
Ethylbenzene	**0.950**	1.00	0.0770	1	8/21/2009	J
2-hexanone	BQL	50.0	0.720	1	8/21/2009	
Iodomethane	BQL	10.0	0.0420	1	8/21/2009	
Methylene chloride	BQL	1.00	0.0980	1	8/21/2009	
4-methyl-2-pentanone	BQL	100	0.550	1	8/21/2009	
Styrene	BQL	1.00	0.0850	1	8/21/2009	
1,1,1,2-Tetrachloroethane	BQL	5.00	0.0900	1	8/21/2009	
1,1,2,2-Tetrachloroethane	BQL	3.00	0.115	1	8/21/2009	
Tetrachloroethene	BQL	1.00	0.0690	1	8/21/2009	
Toluene	BQL	1.00	0.0760	1	8/21/2009	
Trichloroethene	BQL	1.00	0.0540	1	8/21/2009	
1,1,1-Trichloroethane	BQL	1.00	0.0540	1	8/21/2009	
1,1,2-Trichloroethane	BQL	1.00	0.182	1	8/21/2009	

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Results for Volatiles
by GCMS 8260 Appendix I

Client Sample ID: MW9A-081109
Client Project ID: C&D Landfill, Inc.
Lab Sample ID: G1081-2-4A
Lab Project ID: G1081-2

Analyzed By: CLP
Date Collected: 8/11/2009 11:25
Date Received: 8/12/2009
Matrix: Water
Sample Amount: 5 mL

Compound	Result UG/L	SWSL Limit UG/L	MDL UG/L	Dilution Factor	Date Analyzed	Flag
Trichlorofluoromethane	BQL	1.00	0.111	1	8/21/2009	
1,2,3-Trichloropropane	BQL	1.00	0.120	1	8/21/2009	
Vinyl acetate	BQL	50.0	0.100	1	8/21/2009	
Vinyl chloride	BQL	1.00	0.149	1	8/21/2009	
Total Xylene	**2.77**	5.00	0.0650	1	8/21/2009	J

	Spike Added	Spike Result	Percent Recovered
1,2-Dichloroethane-d4	10	10.4	104
Toluene-d8	10	9.5	95
4-Bromofluorobenzene	10	9.76	98

Comments:

Flags:
BQL = Below Quantitation Limits.
J = Detected below the quantitation limit.

Analyst: _____

Reviewed By: _____

Results for Volatiles
by GCMS 8260 Appendix II

Client Sample ID: MW10-081009
Client Project ID: C&D Landfill, Inc.
Lab Sample ID: G1081-2-5A
Lab Project ID: G1081-2

Analyzed By: DVO
Date Collected: 8/10/2009 11:57
Date Received: 8/12/2009
Matrix: Water
Sample Amount: 5 mL

Compound	Result UG/L	SWSL Limit UG/L	MDL UG/L	Dilution Factor	Date Analyzed	Flag
Acetone	BQL	100	2.18	1	8/21/2009	
Acetonitrile	BQL	55.0	2.58	1	8/21/2009	
Acrolein	BQL	53.0	2.93	1	8/21/2009	
Acrylonitrile	BQL	200	2.93	1	8/21/2009	
Allyl chloride	BQL	10.0	0.238	1	8/21/2009	
Benzene	BQL	1.00	0.0650	1	8/21/2009	
Bromochloromethane	BQL	3.00	0.101	1	8/21/2009	
Bromodichloromethane	BQL	1.00	0.0760	1	8/21/2009	
Bromoform	BQL	3.00	0.120	1	8/21/2009	
Bromomethane	BQL	10.0	0.133	1	8/21/2009	
2-Butanone	BQL	100	0.544	1	8/21/2009	
Carbon disulfide	BQL	100	0.0690	1	8/21/2009	
Carbon tetrachloride	BQL	1.00	0.0870	1	8/21/2009	
Chlorobenzene	BQL	3.00	0.0820	1	8/21/2009	
Chloroethane	BQL	10.0	0.106	1	8/21/2009	
Chloroform	BQL	5.00	0.0790	1	8/21/2009	
Chloromethane	BQL	1.00	0.146	1	8/21/2009	
Chloroprene	BQL	20.0	0.292	1	8/21/2009	
Dibromochloromethane	BQL	3.00	0.0900	1	8/21/2009	
1,2-Dibromo-3-chloropropane	BQL	13.0	1.21	1	8/21/2009	
Dibromomethane	BQL	10.0	0.113	1	8/21/2009	
1,2-Dibromoethane (EDB)	BQL	1.00	0.124	1	8/21/2009	
o-Dichlorobenzene	BQL	5.00	0.127	1	8/21/2009	
m-Dichlorobenzene	BQL	5.00	0.0810	1	8/21/2009	
p-Dichlorobenzene	BQL	1.00	0.0790	1	8/21/2009	
trans-1,4-Dichloro-2-butene	BQL	100	0.630	1	8/21/2009	
1,1-Dichloroethane	BQL	5.00	0.0740	1	8/21/2009	
1,1-Dichloroethene	BQL	5.00	0.0890	1	8/21/2009	
1,2-Dichloroethane	BQL	1.00	0.0790	1	8/21/2009	
cis-1,2-Dichloroethene	BQL	5.00	0.0650	1	8/21/2009	
trans-1,2-dichloroethene	BQL	5.00	0.0890	1	8/21/2009	
1,2-Dichloropropane	BQL	1.00	0.0940	1	8/21/2009	
1,3-Dichloropropane	BQL	1.00	0.127	1	8/21/2009	
2,2-Dichloropropane	BQL	15.0	0.0590	1	8/21/2009	
1,1-Dichloropropene	BQL	5.00	0.0720	1	8/21/2009	
cis-1,3-Dichloropropene	BQL	1.00	0.0760	1	8/21/2009	
trans-1,3-Dichloropropene	BQL	1.00	0.0760	1	8/21/2009	
Dichlorodifluoromethane	BQL	5.00	0.0940	1	8/21/2009	
Ethylbenzene	BQL	1.00	0.0770	1	8/21/2009	
Ethyl methacrylate	BQL	10.0	0.119	1	8/21/2009	
2-Hexanone	BQL	50.0	0.720	1	8/21/2009	
Isobutanol	BQL	100	17.1	1	8/21/2009	
Iodomethane	BQL	10.0	0.0420	1	8/21/2009	
Methacrylonitrile	BQL	100	4.08	1	8/21/2009	
Methylene chloride	BQL	1.00	0.0980	1	8/21/2009	

Results for Volatiles
by GCMS 8260 Appendix II

Client Sample ID: MW10-081009
Client Project ID: C&D Landfill, Inc.
Lab Sample ID: G1081-2-5A
Lab Project ID: G1081-2

Analyzed By: DVO
Date Collected: 8/10/2009 11:57
Date Received: 8/12/2009
Matrix: Water
Sample Amount: 5 mL

Compound	Result UG/L	SWSL Limit UG/L	MDL UG/L	Dilution Factor	Date Analyzed	Flag
Methyl methacrylate	BQL	30.0	0.155	1	8/21/2009	
4-Methyl-2-pentanone	BQL	100	0.550	1	8/21/2009	
Propionitrile	BQL	150	2.67	1	8/21/2009	
Styrene	BQL	1.00	0.0850	1	8/21/2009	
1,1,1,2-Tetrachloroethane	BQL	5.00	0.0900	1	8/21/2009	
1,1,2,2-Tetrachloroethane	BQL	3.00	0.115	1	8/21/2009	
Tetrachloroethene	BQL	1.00	0.0690	1	8/21/2009	
Toluene	BQL	1.00	0.0760	1	8/21/2009	
Trichloroethene	BQL	1.00	0.0540	1	8/21/2009	
1,1,1-Trichloroethane	BQL	1.00	0.0540	1	8/21/2009	
1,1,2-Trichloroethane	BQL	1.00	0.182	1	8/21/2009	
Trichlorofluoromethane	BQL	1.00	0.111	1	8/21/2009	
1,2,3-Trichloropropane	BQL	1.00	0.120	1	8/21/2009	
Vinyl acetate	BQL	50.0	0.100	1	8/21/2009	
Vinyl chloride	BQL	1.00	0.149	1	8/21/2009	
Total Xylene	BQL	5.00	0.0650	1	8/21/2009	

	Spike Added	Spike Result	Percent Recovered
1,2-Dichloroethane-d4	10	9.76	98
Toluene-d8	10	9.91	99
4-Bromofluorobenzene	10	9.73	97

Comments:

Flags:
BQL = Below Quantitation Limits.

Analyst: _____

Reviewed By: _____

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Results for Volatiles
by GCMS 8260 Appendix II

Client Sample ID: MW11-081009
Client Project ID: C&D Landfill, Inc.
Lab Sample ID: G1081-2-6A
Lab Project ID: G1081-2

Analyzed By: DVO
Date Collected: 8/10/2009 13:53
Date Received: 8/12/2009
Matrix: Water
Sample Amount: 5 mL

Compound	Result UG/L	SWSL Limit UG/L	MDL UG/L	Dilution Factor	Date Analyzed	Flag
Acetone	BQL	100	2.18	1	8/21/2009	
Acetonitrile	BQL	55.0	2.58	1	8/21/2009	
Acrolein	BQL	53.0	2.93	1	8/21/2009	
Acrylonitrile	BQL	200	2.93	1	8/21/2009	
Allyl chloride	BQL	10.0	0.238	1	8/21/2009	
Benzene	BQL	1.00	0.0650	1	8/21/2009	
Bromochloromethane	BQL	3.00	0.101	1	8/21/2009	
Bromodichloromethane	BQL	1.00	0.0760	1	8/21/2009	
Bromoform	BQL	3.00	0.120	1	8/21/2009	
Bromomethane	BQL	10.0	0.133	1	8/21/2009	
2-Butanone	BQL	100	0.544	1	8/21/2009	
Carbon disulfide	BQL	100	0.0690	1	8/21/2009	
Carbon tetrachloride	BQL	1.00	0.0870	1	8/21/2009	
Chlorobenzene	BQL	3.00	0.0820	1	8/21/2009	
Chloroethane	BQL	10.0	0.106	1	8/21/2009	
Chloroform	BQL	5.00	0.0790	1	8/21/2009	
Chloromethane	**0.290**	1.00	0.146	1	8/21/2009	J
Chloroprene	BQL	20.0	0.292	1	8/21/2009	
Dibromochloromethane	BQL	3.00	0.0900	1	8/21/2009	
1,2-Dibromo-3-chloropropane	BQL	13.0	1.21	1	8/21/2009	
Dibromomethane	BQL	10.0	0.113	1	8/21/2009	
1,2-Dibromoethane (EDB)	BQL	1.00	0.124	1	8/21/2009	
o-Dichlorobenzene	BQL	5.00	0.127	1	8/21/2009	
m-Dichlorobenzene	BQL	5.00	0.0810	1	8/21/2009	
p-Dichlorobenzene	BQL	1.00	0.0790	1	8/21/2009	
trans-1,4-Dichloro-2-butene	BQL	100	0.630	1	8/21/2009	
1,1-Dichloroethane	BQL	5.00	0.0740	1	8/21/2009	
1,1-Dichloroethene	BQL	5.00	0.0890	1	8/21/2009	
1,2-Dichloroethane	BQL	1.00	0.0790	1	8/21/2009	
cis-1,2-Dichloroethene	BQL	5.00	0.0650	1	8/21/2009	
trans-1,2-dichloroethene	BQL	5.00	0.0890	1	8/21/2009	
1,2-Dichloropropane	BQL	1.00	0.0940	1	8/21/2009	
1,3-Dichloropropane	BQL	1.00	0.127	1	8/21/2009	
2,2-Dichloropropane	BQL	15.0	0.0590	1	8/21/2009	
1,1-Dichloropropene	BQL	5.00	0.0720	1	8/21/2009	
cis-1,3-Dichloropropene	BQL	1.00	0.0760	1	8/21/2009	
trans-1,3-Dichloropropene	BQL	1.00	0.0760	1	8/21/2009	
Dichlorodifluoromethane	BQL	5.00	0.0940	1	8/21/2009	
Ethylbenzene	BQL	1.00	0.0770	1	8/21/2009	
Ethyl methacrylate	BQL	10.0	0.119	1	8/21/2009	
2-Hexanone	BQL	50.0	0.720	1	8/21/2009	
Isobutanol	BQL	100	17.1	1	8/21/2009	
Iodomethane	BQL	10.0	0.0420	1	8/21/2009	
Methacrylonitrile	BQL	100	4.08	1	8/21/2009	
Methylene chloride	BQL	1.00	0.0980	1	8/21/2009	

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Results for Volatiles
by GCMS 8260 Appendix II

Client Sample ID: MW11-081009
Client Project ID: C&D Landfill, Inc.
Lab Sample ID: G1081-2-6A
Lab Project ID: G1081-2

Analyzed By: DVO
Date Collected: 8/10/2009 13:53
Date Received: 8/12/2009
Matrix: Water
Sample Amount: 5 mL

Compound	Result UG/L	SWSL Limit UG/L	MDL UG/L	Dilution Factor	Date Analyzed	Flag
Methyl methacrylate	BQL	30.0	0.155	1	8/21/2009	
4-Methyl-2-pentanone	BQL	100	0.550	1	8/21/2009	
Propionitrile	BQL	150	2.67	1	8/21/2009	
Styrene	BQL	1.00	0.0850	1	8/21/2009	
1,1,1,2-Tetrachloroethane	BQL	5.00	0.0900	1	8/21/2009	
1,1,2,2-Tetrachloroethane	BQL	3.00	0.115	1	8/21/2009	
Tetrachloroethene	BQL	1.00	0.0690	1	8/21/2009	
Toluene	BQL	1.00	0.0760	1	8/21/2009	
Trichloroethene	BQL	1.00	0.0540	1	8/21/2009	
1,1,1-Trichloroethane	BQL	1.00	0.0540	1	8/21/2009	
1,1,2-Trichloroethane	BQL	1.00	0.182	1	8/21/2009	
Trichlorofluoromethane	BQL	1.00	0.111	1	8/21/2009	
1,2,3-Trichloropropane	BQL	1.00	0.120	1	8/21/2009	
Vinyl acetate	BQL	50.0	0.100	1	8/21/2009	
Vinyl chloride	BQL	1.00	0.149	1	8/21/2009	
Total Xylene	BQL	5.00	0.0650	1	8/21/2009	

	Spike Added	Spike Result	Percent Recovered
1,2-Dichloroethane-d4	10	9.79	98
Toluene-d8	10	9.99	100
4-Bromofluorobenzene	10	9.69	97

Comments:

Flags:
BQL = Below Quantitation Limits.

Analyst: _____

Reviewed By: _____

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Results for Volatiles
by GCMS 8260 Appendix II

Client Sample ID: MW8-081009
Client Project ID: C&D Landfill, Inc.
Lab Sample ID: G1081-2-7A
Lab Project ID: G1081-2

Analyzed By: DVO
Date Collected: 8/10/2009 15:25
Date Received: 8/12/2009
Matrix: Water
Sample Amount: 5 mL

Compound	Result UG/L	SWSL Limit UG/L	MDL UG/L	Dilution Factor	Date Analyzed	Flag
Acetone	BQL	100	2.18	1	8/21/2009	
Acetonitrile	BQL	55.0	2.58	1	8/21/2009	
Acrolein	BQL	53.0	2.93	1	8/21/2009	
Acrylonitrile	BQL	200	2.93	1	8/21/2009	
Allyl chloride	BQL	10.0	0.238	1	8/21/2009	
Benzene	**0.190**	1.00	0.0650	1	8/21/2009	J
Bromochloromethane	BQL	3.00	0.101	1	8/21/2009	
Bromodichloromethane	BQL	1.00	0.0760	1	8/21/2009	
Bromoform	BQL	3.00	0.120	1	8/21/2009	
Bromomethane	BQL	10.0	0.133	1	8/21/2009	
2-Butanone	BQL	100	0.544	1	8/21/2009	
Carbon disulfide	BQL	100	0.0690	1	8/21/2009	
Carbon tetrachloride	BQL	1.00	0.0870	1	8/21/2009	
Chlorobenzene	BQL	3.00	0.0820	1	8/21/2009	
Chloroethane	BQL	10.0	0.106	1	8/21/2009	
Chloroform	BQL	5.00	0.0790	1	8/21/2009	
Chloromethane	BQL	1.00	0.146	1	8/21/2009	
Chloroprene	BQL	20.0	0.292	1	8/21/2009	
Dibromochloromethane	BQL	3.00	0.0900	1	8/21/2009	
1,2-Dibromo-3-chloropropane	BQL	13.0	1.21	1	8/21/2009	
Dibromomethane	BQL	10.0	0.113	1	8/21/2009	
1,2-Dibromoethane (EDB)	BQL	1.00	0.124	1	8/21/2009	
o-Dichlorobenzene	BQL	5.00	0.127	1	8/21/2009	
m-Dichlorobenzene	BQL	5.00	0.0810	1	8/21/2009	
p-Dichlorobenzene	BQL	1.00	0.0790	1	8/21/2009	
trans-1,4-Dichloro-2-butene	BQL	100	0.630	1	8/21/2009	
1,1-Dichloroethane	BQL	5.00	0.0740	1	8/21/2009	
1,1-Dichloroethene	BQL	5.00	0.0890	1	8/21/2009	
1,2-Dichloroethane	BQL	1.00	0.0790	1	8/21/2009	
cis-1,2-Dichloroethene	**0.0700**	5.00	0.0650	1	8/21/2009	J
trans-1,2-dichloroethene	BQL	5.00	0.0890	1	8/21/2009	
1,2-Dichloropropane	BQL	1.00	0.0940	1	8/21/2009	
1,3-Dichloropropane	BQL	1.00	0.127	1	8/21/2009	
2,2-Dichloropropane	BQL	15.0	0.0590	1	8/21/2009	
1,1-Dichloropropene	BQL	5.00	0.0720	1	8/21/2009	
cis-1,3-Dichloropropene	BQL	1.00	0.0760	1	8/21/2009	
trans-1,3-Dichloropropene	BQL	1.00	0.0760	1	8/21/2009	
Dichlorodifluoromethane	BQL	5.00	0.0940	1	8/21/2009	
Ethylbenzene	BQL	1.00	0.0770	1	8/21/2009	
Ethyl methacrylate	BQL	10.0	0.119	1	8/21/2009	
2-Hexanone	BQL	50.0	0.720	1	8/21/2009	
Isobutanol	BQL	100	17.1	1	8/21/2009	
Iodomethane	BQL	10.0	0.0420	1	8/21/2009	
Methacrylonitrile	BQL	100	4.08	1	8/21/2009	
Methylene chloride	BQL	1.00	0.0980	1	8/21/2009	

Results for Volatiles
by GCMS 8260 Appendix II

Client Sample ID: MW8-081009
Client Project ID: C&D Landfill, Inc.
Lab Sample ID: G1081-2-7A
Lab Project ID: G1081-2

Analyzed By: DVO
Date Collected: 8/10/2009 15:25
Date Received: 8/12/2009
Matrix: Water
Sample Amount: 5 mL

Compound	Result UG/L	SWSL Limit UG/L	MDL UG/L	Dilution Factor	Date Analyzed	Flag
Methyl methacrylate	BQL	30.0	0.155	1	8/21/2009	
4-Methyl-2-pentanone	BQL	100	0.550	1	8/21/2009	
Propionitrile	BQL	150	2.67	1	8/21/2009	
Styrene	BQL	1.00	0.0850	1	8/21/2009	
1,1,1,2-Tetrachloroethane	BQL	5.00	0.0900	1	8/21/2009	
1,1,2,2-Tetrachloroethane	BQL	3.00	0.115	1	8/21/2009	
Tetrachloroethene	BQL	1.00	0.0690	1	8/21/2009	
Toluene	BQL	1.00	0.0760	1	8/21/2009	
Trichloroethene	BQL	1.00	0.0540	1	8/21/2009	
1,1,1-Trichloroethane	BQL	1.00	0.0540	1	8/21/2009	
1,1,2-Trichloroethane	BQL	1.00	0.182	1	8/21/2009	
Trichlorofluoromethane	BQL	1.00	0.111	1	8/21/2009	
1,2,3-Trichloropropane	BQL	1.00	0.120	1	8/21/2009	
Vinyl acetate	BQL	50.0	0.100	1	8/21/2009	
Vinyl chloride	BQL	1.00	0.149	1	8/21/2009	
Total Xylene	BQL	5.00	0.0650	1	8/21/2009	

	Spike Added	Spike Result	Percent Recovered
1,2-Dichloroethane-d4	10	9.8	98
Toluene-d8	10	10.1	101
4-Bromofluorobenzene	10	9.69	97

Comments:

Flags:
BQL = Below Quantitation Limits.

Analyst: _____

Reviewed By: _____

GCMS
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Results for Volatiles
by GCMS 8260 Appendix II

Client Sample ID: MW12s-081109
Client Project ID: C&D Landfill, Inc.
Lab Sample ID: G1081-2-8A
Lab Project ID: G1081-2

Analyzed By: CLP
Date Collected: 8/11/2009 9:13
Date Received: 8/12/2009
Matrix: Water
Sample Amount: 5 mL

Compound	Result UG/L	SWSL Limit UG/L	MDL UG/L	Dilution Factor	Date Analyzed	Flag
Acetone	BQL	100	2.18	1	8/21/2009	
Acetonitrile	BQL	55.0	2.58	1	8/21/2009	
Acrolein	BQL	53.0	2.93	1	8/21/2009	
Acrylonitrile	BQL	200	2.93	1	8/21/2009	
Allyl chloride	BQL	10.0	0.238	1	8/21/2009	
Benzene	BQL	1.00	0.0650	1	8/21/2009	
Bromochloromethane	BQL	3.00	0.101	1	8/21/2009	
Bromodichloromethane	BQL	1.00	0.0760	1	8/21/2009	
Bromoform	BQL	3.00	0.120	1	8/21/2009	
Bromomethane	BQL	10.0	0.133	1	8/21/2009	
2-Butanone	BQL	100	0.544	1	8/21/2009	
Carbon disulfide	BQL	100	0.0690	1	8/21/2009	
Carbon tetrachloride	BQL	1.00	0.0870	1	8/21/2009	
Chlorobenzene	BQL	3.00	0.0820	1	8/21/2009	
Chloroethane	BQL	10.0	0.106	1	8/21/2009	
Chloroform	BQL	5.00	0.0790	1	8/21/2009	
Chloromethane	BQL	1.00	0.146	1	8/21/2009	
Chloroprene	BQL	20.0	0.292	1	8/21/2009	
Dibromochloromethane	BQL	3.00	0.0900	1	8/21/2009	
1,2-Dibromo-3-chloropropane	BQL	13.0	1.21	1	8/21/2009	
Dibromomethane	BQL	10.0	0.113	1	8/21/2009	
1,2-Dibromoethane (EDB)	BQL	1.00	0.124	1	8/21/2009	
o-Dichlorobenzene	BQL	5.00	0.127	1	8/21/2009	
m-Dichlorobenzene	BQL	5.00	0.0810	1	8/21/2009	
p-Dichlorobenzene	BQL	1.00	0.0790	1	8/21/2009	
trans-1,4-Dichloro-2-butene	BQL	100	0.630	1	8/21/2009	
1,1-Dichloroethane	BQL	5.00	0.0740	1	8/21/2009	
1,1-Dichloroethene	BQL	5.00	0.0890	1	8/21/2009	
1,2-Dichloroethane	BQL	1.00	0.0790	1	8/21/2009	
cis-1,2-Dichloroethene	BQL	5.00	0.0650	1	8/21/2009	
trans-1,2-dichloroethene	BQL	5.00	0.0890	1	8/21/2009	
1,2-Dichloropropane	BQL	1.00	0.0940	1	8/21/2009	
1,3-Dichloropropane	BQL	1.00	0.127	1	8/21/2009	
2,2-Dichloropropane	BQL	15.0	0.0590	1	8/21/2009	
1,1-Dichloropropene	BQL	5.00	0.0720	1	8/21/2009	
cis-1,3-Dichloropropene	BQL	1.00	0.0760	1	8/21/2009	
trans-1,3-Dichloropropene	BQL	1.00	0.0760	1	8/21/2009	
Dichlorodifluoromethane	BQL	5.00	0.0940	1	8/21/2009	
Ethylbenzene	BQL	1.00	0.0770	1	8/21/2009	
Ethyl methacrylate	BQL	10.0	0.119	1	8/21/2009	
2-Hexanone	BQL	50.0	0.720	1	8/21/2009	
Isobutanol	BQL	100	17.1	1	8/21/2009	
Iodomethane	BQL	10.0	0.0420	1	8/21/2009	
Methacrylonitrile	BQL	100	4.08	1	8/21/2009	
Methylene chloride	BQL	1.00	0.0980	1	8/21/2009	

Results for Volatiles
by GCMS 8260 Appendix II

Client Sample ID: MW12s-081109
Client Project ID: C&D Landfill, Inc.
Lab Sample ID: G1081-2-8A
Lab Project ID: G1081-2

Analyzed By: CLP
Date Collected: 8/11/2009 9:13
Date Received: 8/12/2009
Matrix: Water
Sample Amount: 5 mL

Compound	Result UG/L	SWSL Limit UG/L	MDL UG/L	Dilution Factor	Date Analyzed	Flag
Methyl methacrylate	BQL	30.0	0.155	1	8/21/2009	
4-Methyl-2-pentanone	BQL	100	0.550	1	8/21/2009	
Propionitrile	BQL	150	2.67	1	8/21/2009	
Styrene	BQL	1.00	0.0850	1	8/21/2009	
1,1,1,2-Tetrachloroethane	BQL	5.00	0.0900	1	8/21/2009	
1,1,2,2-Tetrachloroethane	BQL	3.00	0.115	1	8/21/2009	
Tetrachloroethene	BQL	1.00	0.0690	1	8/21/2009	
Toluene	BQL	1.00	0.0760	1	8/21/2009	
Trichloroethene	BQL	1.00	0.0540	1	8/21/2009	
1,1,1-Trichloroethane	BQL	1.00	0.0540	1	8/21/2009	
1,1,2-Trichloroethane	BQL	1.00	0.182	1	8/21/2009	
Trichlorofluoromethane	BQL	1.00	0.111	1	8/21/2009	
1,2,3-Trichloropropane	BQL	1.00	0.120	1	8/21/2009	
Vinyl acetate	BQL	50.0	0.100	1	8/21/2009	
Vinyl chloride	BQL	1.00	0.149	1	8/21/2009	
Total Xylene	BQL	5.00	0.0650	1	8/21/2009	

	Spike Added	Spike Result	Percent Recovered
1,2-Dichloroethane-d4	10	10.2	102
Toluene-d8	10	9.46	95
4-Bromofluorobenzene	10	9.37	94

Comments:

Flags:
BQL = Below Quantitation Limits.
J = Detected below the quantitation limit.

Analyst: _____

Reviewed By: _____

Results for Volatiles
by GCMS 8260 Appendix II

Client Sample ID: MW3s-081109
Client Project ID: C&D Landfill, Inc.
Lab Sample ID: G1081-2-9A
Lab Project ID: G1081-2

Analyzed By: CLP
Date Collected: 8/11/2009 12:13
Date Received: 8/12/2009
Matrix: Water
Sample Amount: 5 mL

Compound	Result UG/L	SWSL Limit UG/L	MDL UG/L	Dilution Factor	Date Analyzed	Flag
Acetone	**5.99**	100	2.18	1	8/21/2009	J
Acetonitrile	BQL	55.0	2.58	1	8/21/2009	
Acrolein	BQL	53.0	2.93	1	8/21/2009	
Acrylonitrile	BQL	200	2.93	1	8/21/2009	
Allyl chloride	BQL	10.0	0.238	1	8/21/2009	
Benzene	**2.29**	1.00	0.0650	1	8/21/2009	
Bromochloromethane	BQL	3.00	0.101	1	8/21/2009	
Bromodichloromethane	BQL	1.00	0.0760	1	8/21/2009	
Bromoform	BQL	3.00	0.120	1	8/21/2009	
Bromomethane	BQL	10.0	0.133	1	8/21/2009	
2-Butanone	BQL	100	0.544	1	8/21/2009	
Carbon disulfide	BQL	100	0.0690	1	8/21/2009	
Carbon tetrachloride	BQL	1.00	0.0870	1	8/21/2009	
Chlorobenzene	BQL	3.00	0.0820	1	8/21/2009	
Chloroethane	**0.170**	10.0	0.106	1	8/21/2009	J
Chloroform	BQL	5.00	0.0790	1	8/21/2009	
Chloromethane	**0.150**	1.00	0.146	1	8/21/2009	J
Chloroprene	BQL	20.0	0.292	1	8/21/2009	
Dibromochloromethane	BQL	3.00	0.0900	1	8/21/2009	
1,2-Dibromo-3-chloropropane	BQL	13.0	1.21	1	8/21/2009	
Dibromomethane	BQL	10.0	0.113	1	8/21/2009	
1,2-Dibromoethane (EDB)	BQL	1.00	0.124	1	8/21/2009	
o-Dichlorobenzene	BQL	5.00	0.127	1	8/21/2009	
m-Dichlorobenzene	BQL	5.00	0.0810	1	8/21/2009	
p-Dichlorobenzene	BQL	1.00	0.0790	1	8/21/2009	
trans-1,4-Dichloro-2-butene	BQL	100	0.630	1	8/21/2009	
1,1-Dichloroethane	BQL	5.00	0.0740	1	8/21/2009	
1,1-Dichloroethene	BQL	5.00	0.0890	1	8/21/2009	
1,2-Dichloroethane	BQL	1.00	0.0790	1	8/21/2009	
cis-1,2-Dichloroethene	**0.670**	5.00	0.0650	1	8/21/2009	J
trans-1,2-dichloroethene	BQL	5.00	0.0890	1	8/21/2009	
1,2-Dichloropropane	BQL	1.00	0.0940	1	8/21/2009	
1,3-Dichloropropane	BQL	1.00	0.127	1	8/21/2009	
2,2-Dichloropropane	BQL	15.0	0.0590	1	8/21/2009	
1,1-Dichloropropene	BQL	5.00	0.0720	1	8/21/2009	
cis-1,3-Dichloropropene	BQL	1.00	0.0760	1	8/21/2009	
trans-1,3-Dichloropropene	BQL	1.00	0.0760	1	8/21/2009	
Dichlorodifluoromethane	BQL	5.00	0.0940	1	8/21/2009	
Ethylbenzene	**0.480**	1.00	0.0770	1	8/21/2009	J
Ethyl methacrylate	BQL	10.0	0.119	1	8/21/2009	
2-Hexanone	BQL	50.0	0.720	1	8/21/2009	
Isobutanol	BQL	100	17.1	1	8/21/2009	
Iodomethane	BQL	10.0	0.0420	1	8/21/2009	
Methacrylonitrile	BQL	100	4.08	1	8/21/2009	
Methylene chloride	BQL	1.00	0.0980	1	8/21/2009	

Results for Volatiles
by GCMS 8260 Appendix II

Client Sample ID: MW3s-081109
Client Project ID: C&D Landfill, Inc.
Lab Sample ID: G1081-2-9A
Lab Project ID: G1081-2

Analyzed By: CLP
Date Collected: 8/11/2009 12:13
Date Received: 8/12/2009
Matrix: Water
Sample Amount: 5 mL

Compound	Result UG/L	SWSL Limit UG/L	MDL UG/L	Dilution Factor	Date Analyzed	Flag
Methyl methacrylate	BQL	30.0	0.155	1	8/21/2009	
4-Methyl-2-pentanone	BQL	100	0.550	1	8/21/2009	
Propionitrile	BQL	150	2.67	1	8/21/2009	
Styrene	BQL	1.00	0.0850	1	8/21/2009	
1,1,1,2-Tetrachloroethane	BQL	5.00	0.0900	1	8/21/2009	
1,1,2,2-Tetrachloroethane	BQL	3.00	0.115	1	8/21/2009	
Tetrachloroethene	BQL	1.00	0.0690	1	8/21/2009	
Toluene	**0.190**	1.00	0.0760	1	8/21/2009	J
Trichloroethene	BQL	1.00	0.0540	1	8/21/2009	
1,1,1-Trichloroethane	BQL	1.00	0.0540	1	8/21/2009	
1,1,2-Trichloroethane	BQL	1.00	0.182	1	8/21/2009	
Trichlorofluoromethane	BQL	1.00	0.111	1	8/21/2009	
1,2,3-Trichloropropane	BQL	1.00	0.120	1	8/21/2009	
Vinyl acetate	BQL	50.0	0.100	1	8/21/2009	
Vinyl chloride	BQL	1.00	0.149	1	8/21/2009	
Total Xylene	**0.360**	5.00	0.0650	1	8/21/2009	J

	Spike Added	Spike Result	Percent Recovered
1,2-Dichloroethane-d4	10	10.5	105
Toluene-d8	10	9.28	93
4-Bromofluorobenzene	10	9.58	96

Comments:

Flags:
BQL = Below Quantitation Limits.
J = Detected below the quantitation limit.

Analyst: _____

Reviewed By: _____

Results for Volatiles
by GCMS 8260 Appendix II

Client Sample ID: MW3A-081109
Client Project ID: C&D Landfill, Inc.
Lab Sample ID: G1081-2-10A
Lab Project ID: G1081-2

Analyzed By: CLP
Date Collected: 8/11/2009 13:38
Date Received: 8/12/2009
Matrix: Water
Sample Amount: 5 mL

Compound	Result UG/L	SWSL Limit UG/L	MDL UG/L	Dilution Factor	Date Analyzed	Flag
Acetone	**3.15**	100	2.18	1	8/21/2009	J
Acetonitrile	BQL	55.0	2.58	1	8/21/2009	
Acrolein	BQL	53.0	2.93	1	8/21/2009	
Acrylonitrile	BQL	200	2.93	1	8/21/2009	
Allyl chloride	BQL	10.0	0.238	1	8/21/2009	
Benzene	**0.350**	1.00	0.0650	1	8/21/2009	J
Bromochloromethane	BQL	3.00	0.101	1	8/21/2009	
Bromodichloromethane	BQL	1.00	0.0760	1	8/21/2009	
Bromoform	BQL	3.00	0.120	1	8/21/2009	
Bromomethane	BQL	10.0	0.133	1	8/21/2009	
2-Butanone	BQL	100	0.544	1	8/21/2009	
Carbon disulfide	BQL	100	0.0690	1	8/21/2009	
Carbon tetrachloride	BQL	1.00	0.0870	1	8/21/2009	
Chlorobenzene	BQL	3.00	0.0820	1	8/21/2009	
Chloroethane	BQL	10.0	0.106	1	8/21/2009	
Chloroform	BQL	5.00	0.0790	1	8/21/2009	
Chloromethane	BQL	1.00	0.146	1	8/21/2009	
Chloroprene	BQL	20.0	0.292	1	8/21/2009	
Dibromochloromethane	BQL	3.00	0.0900	1	8/21/2009	
1,2-Dibromo-3-chloropropane	BQL	13.0	1.21	1	8/21/2009	
Dibromomethane	BQL	10.0	0.113	1	8/21/2009	
1,2-Dibromoethane (EDB)	BQL	1.00	0.124	1	8/21/2009	
o-Dichlorobenzene	BQL	5.00	0.127	1	8/21/2009	
m-Dichlorobenzene	BQL	5.00	0.0810	1	8/21/2009	
p-Dichlorobenzene	BQL	1.00	0.0790	1	8/21/2009	
trans-1,4-Dichloro-2-butene	BQL	100	0.630	1	8/21/2009	
1,1-Dichloroethane	BQL	5.00	0.0740	1	8/21/2009	
1,1-Dichloroethene	BQL	5.00	0.0890	1	8/21/2009	
1,2-Dichloroethane	BQL	1.00	0.0790	1	8/21/2009	
cis-1,2-Dichloroethene	BQL	5.00	0.0650	1	8/21/2009	
trans-1,2-dichloroethene	BQL	5.00	0.0890	1	8/21/2009	
1,2-Dichloropropane	BQL	1.00	0.0940	1	8/21/2009	
1,3-Dichloropropane	BQL	1.00	0.127	1	8/21/2009	
2,2-Dichloropropane	BQL	15.0	0.0590	1	8/21/2009	
1,1-Dichloropropene	BQL	5.00	0.0720	1	8/21/2009	
cis-1,3-Dichloropropene	BQL	1.00	0.0760	1	8/21/2009	
trans-1,3-Dichloropropene	BQL	1.00	0.0760	1	8/21/2009	
Dichlorodifluoromethane	BQL	5.00	0.0940	1	8/21/2009	
Ethylbenzene	BQL	1.00	0.0770	1	8/21/2009	
Ethyl methacrylate	BQL	10.0	0.119	1	8/21/2009	
2-Hexanone	BQL	50.0	0.720	1	8/21/2009	
Isobutanol	BQL	100	17.1	1	8/21/2009	
Iodomethane	BQL	10.0	0.0420	1	8/21/2009	
Methacrylonitrile	BQL	100	4.08	1	8/21/2009	
Methylene chloride	BQL	1.00	0.0980	1	8/21/2009	

Results for Volatiles
by GCMS 8260 Appendix II

Client Sample ID: MW3A-081109
Client Project ID: C&D Landfill, Inc.
Lab Sample ID: G1081-2-10A
Lab Project ID: G1081-2

Analyzed By: CLP
Date Collected: 8/11/2009 13:38
Date Received: 8/12/2009
Matrix: Water
Sample Amount: 5 mL

Compound	Result UG/L	SWSL Limit UG/L	MDL UG/L	Dilution Factor	Date Analyzed	Flag
Methyl methacrylate	BQL	30.0	0.155	1	8/21/2009	
4-Methyl-2-pentanone	BQL	100	0.550	1	8/21/2009	
Propionitrile	BQL	150	2.67	1	8/21/2009	
Styrene	BQL	1.00	0.0850	1	8/21/2009	
1,1,1,2-Tetrachloroethane	BQL	5.00	0.0900	1	8/21/2009	
1,1,2,2-Tetrachloroethane	BQL	3.00	0.115	1	8/21/2009	
Tetrachloroethene	BQL	1.00	0.0690	1	8/21/2009	
Toluene	**0.120**	1.00	0.0760	1	8/21/2009	J
Trichloroethene	BQL	1.00	0.0540	1	8/21/2009	
1,1,1-Trichloroethane	BQL	1.00	0.0540	1	8/21/2009	
1,1,2-Trichloroethane	BQL	1.00	0.182	1	8/21/2009	
Trichlorofluoromethane	BQL	1.00	0.111	1	8/21/2009	
1,2,3-Trichloropropane	BQL	1.00	0.120	1	8/21/2009	
Vinyl acetate	BQL	50.0	0.100	1	8/21/2009	
Vinyl chloride	BQL	1.00	0.149	1	8/21/2009	
Total Xylene	BQL	5.00	0.0650	1	8/21/2009	

	Spike Added	Spike Result	Percent Recovered
1,2-Dichloroethane-d4	10	9.41	94
Toluene-d8	10	10.2	102
4-Bromofluorobenzene	10	9.62	96

Comments:

Flags:
BQL = Below Quantitation Limits.
J = Detected below the quantitation limit.

Analyst: _____

Reviewed By: _____

GCMS
NCAP2

Results for Semivolatiles
by GCMS 8270-Appendix II

Client Sample ID: MW10-081009
Client Project ID: C&D Landfill, Inc.
Lab Sample ID: G1081-2-5R
Lab Project ID: G1081-2

Initial Volume: 905 mL

Analyzed By: EAW
Date Collected: 8/10/2009 11:57
Date Received: 8/12/2009
Date Extracted: 8/14/2009
Matrix: Water

Compound	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flag
Acenaphthene	BQL	5.52	1.23	1	8/21/2009	
Acenaphthylene	BQL	5.52	1.16	1	8/21/2009	
Acetophenone	BQL	5.52	0.564	1	8/21/2009	
2-Acetylaminofluorene	BQL	11.0	5.45	1	8/21/2009	
4-Aminobiphenyl	BQL	5.52	0.901	1	8/21/2009	
Aniline	BQL	5.52	2.50	1	8/21/2009	
Anthracene	BQL	5.52	1.33	1	8/21/2009	
Aramite	BQL	5.52	2.02	1	8/21/2009	
Benzidine	BQL	11.0	1.07	1	8/21/2009	
Benzo[a]anthracene	BQL	5.52	1.23	1	8/21/2009	
Benzo[a]pyrene	BQL	5.52	1.09	1	8/21/2009	
Benzo[b]fluoranthene	BQL	5.52	1.03	1	8/21/2009	
Benzo[g,h,i]perylene	BQL	5.52	1.24	1	8/21/2009	
Benzo[k]fluoranthene	BQL	5.52	1.52	1	8/21/2009	
Benzyl Alcohol	BQL	11.0	1.40	1	8/21/2009	
Bis(2-chloroethoxy)methane	BQL	5.52	1.27	1	8/21/2009	
Bis(2-chloroethyl)ether	BQL	5.52	1.23	1	8/21/2009	
Bis(2-chloroisopropyl)ether	BQL	5.52	1.17	1	8/21/2009	
Bis(2-ethylhexyl)phthalate	BQL	5.52	1.40	1	8/21/2009	
4-Bromophenyl phenyl ether	BQL	5.52	1.22	1	8/21/2009	
Butylbenzylphthalate	BQL	5.52	1.23	1	8/21/2009	
Chlorobenzilate	BQL	5.52	1.23	1	8/21/2009	
2-Chloronaphthalene	BQL	5.52	0.945	1	8/21/2009	
2-Chlorophenol	BQL	5.52	1.12	1	8/21/2009	
4-Chloro-3-methylphenol	BQL	5.52	1.13	1	8/21/2009	
4-Chloroaniline	BQL	5.52	1.69	1	8/21/2009	
4-Chlorophenyl phenyl ether	BQL	5.52	1.22	1	8/21/2009	
Chrysene	BQL	5.52	1.45	1	8/21/2009	
Diallate	BQL	5.52	2.46	1	8/21/2009	
Dibenz[a,j]acridine	BQL	5.52	5.52	1	8/21/2009	
Dibenzo[a,h]anthracene	BQL	5.52	1.27	1	8/21/2009	
Dibenzofuran	BQL	5.52	1.40	1	8/21/2009	
Di-n-Butylphthalate	BQL	5.52	1.56	1	8/21/2009	
1,2-Dichlorobenzene	BQL	5.52	0.691	1	8/21/2009	
1,3-Dichlorobenzene	BQL	5.52	0.575	1	8/21/2009	
1,4-Dichlorobenzene	BQL	5.52	0.591	1	8/21/2009	
3,3'-Dichlorobenzidine	BQL	11.0	1.39	1	8/21/2009	
2,4-Dichlorophenol	BQL	5.52	1.02	1	8/21/2009	
2,6-Dichlorophenol	BQL	5.52	1.33	1	8/21/2009	
Diethylphthalate	BQL	5.52	1.50	1	8/21/2009	
Dimethoate	BQL	5.52	3.15	1	8/21/2009	
3,3'-Dimethylbenzidine	BQL	27.6	6.74	1	8/21/2009	
a,a-Dimethylphenethylamine	BQL	27.6	11.0	1	8/21/2009	
Dimethylphthalate	BQL	5.52	1.33	1	8/21/2009	
p-Dimethylaminoazobenzene	BQL	5.52	0.133	1	8/21/2009	
7,12-Dimethylbenz[a]anthracene	BQL	5.52	2.73	1	8/21/2009	
2,4-Dimethylphenol	BQL	5.52	0.757	1	8/21/2009	

Results for Semivolatiles
by GCMS 8270-Appendix II

Client Sample ID: MW10-081009
Client Project ID: C&D Landfill, Inc.
Lab Sample ID: G1081-2-5R
Lab Project ID: G1081-2

Initial Volume: 905 mL

Analyzed By: EAW
Date Collected: 8/10/2009 11:57
Date Received: 8/12/2009
Date Extracted: 8/14/2009
Matrix: Water

Compound	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flag
Di-n-octylphthalate	BQL	5.52	1.18	1	8/21/2009	
4,6-Dinitro-2-methylphenol	BQL	27.6	0.608	1	8/21/2009	
m-Dinitrobenzene	BQL	5.52	0.818	1	8/21/2009	
2,4-Dinitrophenol	BQL	27.6	0.807	1	8/21/2009	
2,4-Dinitrotoluene	BQL	5.52	1.34	1	8/21/2009	
2,6-Dinitrotoluene	BQL	5.52	1.47	1	8/21/2009	
Dinoseb	BQL	27.6	4.82	1	8/21/2009	
Diphenylamine *	BQL	5.52	1.48	1	8/21/2009	
Disulfoton	BQL	5.52	0.094	1	8/21/2009	
Ethylmethanesulfonate	BQL	5.52	1.10	1	8/21/2009	
Famphur	BQL	27.6	7.82	1	8/21/2009	
Fluoranthene	BQL	5.52	1.52	1	8/21/2009	
Fluorene	BQL	5.52	1.41	1	8/21/2009	
Hexachlorobenzene	BQL	27.6	1.81	1	8/21/2009	
Hexachlorobutadiene	BQL	5.52	0.685	1	8/21/2009	
Hexachlorocyclopentadiene	BQL	11.0	11.0	1	8/21/2009	
Hexachloroethane	BQL	5.52	0.818	1	8/21/2009	
Hexachlorophene	BQL	5.52	2.51	1	8/21/2009	
Hexachloropropene	BQL	11.0	0.541	1	8/21/2009	
Indeno(1,2,3-c,d)pyrene	BQL	5.52	1.15	1	8/21/2009	
Isodrin	BQL	5.52	1.48	1	8/21/2009	
Isophorone	BQL	5.52	1.07	1	8/21/2009	
Isosafrole	BQL	5.52	1.05	1	8/21/2009	
Kepone	BQL	27.6	15.8	1	8/21/2009	
Methapyrilene	BQL	5.52	5.52	1	8/21/2009	
Methyl parathion	BQL	5.52	2.98	1	8/21/2009	
Methylmethanesulfonate	BQL	5.52	1.18	1	8/21/2009	
2-Methylnaphthalene	BQL	5.52	0.912	1	8/21/2009	
2-Methylphenol	BQL	5.52	0.851	1	8/21/2009	
3- & 4-Methylphenol	BQL	5.52	1.86	1	8/21/2009	
3-Methylcholanthrene	BQL	5.52	0.646	1	8/21/2009	
Naphthalene	BQL	5.52	0.867	1	8/21/2009	
1,4-Naphthoquinone	BQL	5.52	1.24	1	8/21/2009	
1-Naphthylamine	BQL	27.6	0.608	1	8/21/2009	
2-Naphthylamine	BQL	27.6	0.448	1	8/21/2009	
5-Nitro-o-toluidine	BQL	5.52	0.657	1	8/21/2009	
2-Nitroaniline	BQL	5.52	1.51	1	8/21/2009	
3-Nitroaniline	BQL	27.6	1.33	1	8/21/2009	
4-Nitroaniline	BQL	27.6	1.15	1	8/21/2009	
Nitrobenzene	BQL	5.52	1.10	1	8/21/2009	
2-Nitrophenol	BQL	5.52	0.989	1	8/21/2009	
4-Nitrophenol	BQL	27.6	0.989	1	8/21/2009	
4-Nitroquinoline-1-oxide	BQL	27.6	5.52	1	8/21/2009	
N-Nitroso-di-n-butylamine	BQL	5.52	0.768	1	8/21/2009	
N-Nitrosodi-n-propylamine	BQL	5.52	1.66	1	8/21/2009	
N-Nitrosodiethylamine	BQL	5.52	1.41	1	8/21/2009	
N-Nitrosodimethylamine	BQL	5.52	0.961	1	8/21/2009	

Results for Semivolatiles
by GCMS 8270-Appendix II

Client Sample ID: MW10-081009
Client Project ID: C&D Landfill, Inc.
Lab Sample ID: G1081-2-5R
Lab Project ID: G1081-2

Initial Volume: 905 mL

Analyzed By: EAW
Date Collected: 8/10/2009 11:57
Date Received: 8/12/2009
Date Extracted: 8/14/2009
Matrix: Water

Compound	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flag
N-Nitrosomethylethylamine	BQL	5.52	6.96	1	8/21/2009	
N-Nitrosomorpholine	BQL	5.52	0.685	1	8/21/2009	
N-Nitrosopiperidine	BQL	5.52	1.81	1	8/21/2009	
N-Nitrosopyrrolidine	BQL	5.52	3.88	1	8/21/2009	
Parathion	BQL	11.0	0.663	1	8/21/2009	
Pentachlorobenzene	BQL	5.52	1.24	1	8/21/2009	
Pentachloronitrobenzene	BQL	5.52	1.33	1	8/21/2009	
Pentachlorophenol	BQL	27.6	1.56	1	8/21/2009	
Phenacetin	BQL	5.52	1.28	1	8/21/2009	
Phenanthrene	BQL	5.52	1.33	1	8/21/2009	
Phenol	BQL	5.52	1.01	1	8/21/2009	
p-Phenylenediamine	BQL	11.0	2.11	1	8/21/2009	
Phorate	BQL	11.0	0.470	1	8/21/2009	
2-Piccoline	BQL	5.52	0.917	1	8/21/2009	
Pronamide	BQL	5.52	0.674	1	8/21/2009	
Pyrene	BQL	5.52	1.28	1	8/21/2009	
Pyridine	BQL	5.52	2.10	1	8/21/2009	
Safrole	BQL	5.52	1.07	1	8/21/2009	
Sulfotep	BQL	5.52	0.790	1	8/21/2009	
1,2,4,5-Tetrachlorobenzene	BQL	5.52	0.840	1	8/21/2009	
2,3,4,6-Tetrachlorophenol	BQL	5.52	0.608	1	8/21/2009	
Thionazin	BQL	11.0	2.81	1	8/21/2009	
o-Toluidine	BQL	5.52	0.906	1	8/21/2009	
1,2,4-Trichlorobenzene	BQL	5.52	0.856	1	8/21/2009	
2,4,5-Trichlorophenol	BQL	5.52	1.26	1	8/21/2009	
2,4,6-Trichlorophenol	BQL	5.52	1.02	1	8/21/2009	
O,O,O-Triethylphosphorothioate	BQL	5.52	1.37	1	8/21/2009	
1,3,5-Trinitrobenzene	BQL	27.6	1.17	1	8/21/2009	

	Spike Added	Spike Result	Percent Recovered
2-Fluorobiphenyl	10	9.6	96
2-Fluorophenol	10	8	80
Nitrobenzene-d5	10	9	90
Phenol-d6	10	8.5	85
2,4,6-Tribromophenol	10	8.4	84
4-Terphenyl-d14	10	13.5	135

Comments:

* N-Nitrosodiphenylamine is reported as the breakdown product Diphenylamine.

Flags:

BQL = Below Quantitation Limits.
J = Detected below the quantitation limit.

Reviewed By: CJD

Results for Semivolatiles
by GCMS 8270-Appendix II

Client Sample ID: MW11-081009
Client Project ID: C&D Landfill, Inc.
Lab Sample ID: G1081-2-6R
Lab Project ID: G1081-2

Initial Volume: 920 mL

Analyzed By: EAW
Date Collected: 8/10/2009 13:53
Date Received: 8/12/2009
Date Extracted: 8/14/2009
Matrix: Water

Compound	Result ug/L	RL ug/L	Dilution Factor	Date Analyzed
Acenaphthene	BQL	5.43	1	8/21/2009
Acenaphthylene	BQL	5.43	1	8/21/2009
Acetophenone	BQL	5.43	1	8/21/2009
2-Acetylaminofluorene	BQL	10.9	1	8/21/2009
4-Aminobiphenyl	BQL	5.43	1	8/21/2009
Aniline	BQL	5.43	1	8/21/2009
Anthracene	BQL	5.43	1	8/21/2009
Aramite	BQL	5.43	1	8/21/2009
Benzidine	BQL	10.9	1	8/21/2009
Benzo[a]anthracene	BQL	5.43	1	8/21/2009
Benzo[a]pyrene	BQL	5.43	1	8/21/2009
Benzo[b]fluoranthene	BQL	5.43	1	8/21/2009
Benzo[g,h,i]perylene	BQL	5.43	1	8/21/2009
Benzo[k]fluoranthene	BQL	5.43	1	8/21/2009
Benzyl Alcohol	BQL	10.9	1	8/21/2009
Bis(2-chloroethoxy)methane	BQL	5.43	1	8/21/2009
Bis(2-chloroethyl)ether	BQL	5.43	1	8/21/2009
Bis(2-chloroisopropyl)ether	BQL	5.43	1	8/21/2009
Bis(2-ethylhexyl)phthalate	BQL	5.43	1	8/21/2009
4-Bromophenyl phenyl ether	BQL	5.43	1	8/21/2009
Butylbenzylphthalate	BQL	5.43	1	8/21/2009
Chlorobenzilate	BQL	5.43	1	8/21/2009
2-Chloronaphthalene	BQL	5.43	1	8/21/2009
2-Chlorophenol	BQL	5.43	1	8/21/2009
4-Chloro-3-methylphenol	BQL	5.43	1	8/21/2009
4-Chloroaniline	BQL	5.43	1	8/21/2009
4-Chlorophenyl phenyl ether	BQL	5.43	1	8/21/2009
Chrysene	BQL	5.43	1	8/21/2009
Diallate	BQL	5.43	1	8/21/2009
Dibenz[a,j]acridine	BQL	5.43	1	8/21/2009
Dibenzo[a,h]anthracene	BQL	5.43	1	8/21/2009
Dibenzofuran	BQL	5.43	1	8/21/2009
Di-n-Butylphthalate	BQL	5.43	1	8/21/2009
1,2-Dichlorobenzene	BQL	5.43	1	8/21/2009
1,3-Dichlorobenzene	BQL	5.43	1	8/21/2009
1,4-Dichlorobenzene	BQL	5.43	1	8/21/2009
3,3'-Dichlorobenzidine	BQL	10.9	1	8/21/2009
2,4-Dichlorophenol	BQL	5.43	1	8/21/2009
2,6-Dichlorophenol	BQL	5.43	1	8/21/2009
Diethylphthalate	BQL	5.43	1	8/21/2009
Dimethoate	BQL	5.43	1	8/21/2009
3,3'-Dimethylbenzidine	BQL	27.2	1	8/21/2009
a,a-Dimethylphenethylamine	BQL	27.2	1	8/21/2009
Dimethylphthalate	BQL	5.43	1	8/21/2009
p-Dimethylaminoazobenzene	BQL	5.43	1	8/21/2009
7,12-Dimethylbenz[a]anthracene	BQL	5.43	1	8/21/2009
2,4-Dimethylphenol	BQL	5.43	1	8/21/2009

Results for Semivolatiles
by GCMS 8270-Appendix II

Client Sample ID: MW11-081009
Client Project ID: C&D Landfill, Inc.
Lab Sample ID: G1081-2-6R
Lab Project ID: G1081-2

Initial Volume: 920 mL

Analyzed By: EAW
Date Collected: 8/10/2009 13:53
Date Received: 8/12/2009
Date Extracted: 8/14/2009
Matrix: Water

Compound	Result ug/L	RL ug/L	Dilution Factor	Date Analyzed
Di-n-octylphthalate	BQL	5.43	1	8/21/2009
4,6-Dinitro-2-methylphenol	BQL	27.2	1	8/21/2009
m-Dinitrobenzene	BQL	5.43	1	8/21/2009
2,4-Dinitrophenol	BQL	27.2	1	8/21/2009
2,4-Dinitrotoluene	BQL	5.43	1	8/21/2009
2,6-Dinitrotoluene	BQL	5.43	1	8/21/2009
Dinoseb	BQL	27.2	1	8/21/2009
Diphenylamine *	BQL	5.43	1	8/21/2009
Disulfoton	BQL	5.43	1	8/21/2009
Ethylmethanesulfonate	BQL	5.43	1	8/21/2009
Famphur	BQL	27.2	1	8/21/2009
Fluoranthene	BQL	5.43	1	8/21/2009
Fluorene	BQL	5.43	1	8/21/2009
Hexachlorobenzene	BQL	27.2	1	8/21/2009
Hexachlorobutadiene	BQL	5.43	1	8/21/2009
Hexachlorocyclopentadiene	BQL	10.9	1	8/21/2009
Hexachloroethane	BQL	5.43	1	8/21/2009
Hexachlorophene	BQL	5.43	1	8/21/2009
Hexachloropropene	BQL	10.9	1	8/21/2009
Indeno(1,2,3-c,d)pyrene	BQL	5.43	1	8/21/2009
Isodrin	BQL	5.43	1	8/21/2009
Isophorone	BQL	5.43	1	8/21/2009
Isosafrole	BQL	5.43	1	8/21/2009
Kepone	BQL	27.2	1	8/21/2009
Methapyrilene	BQL	5.43	1	8/21/2009
Methyl parathion	BQL	5.43	1	8/21/2009
Methylmethanesulfonate	BQL	5.43	1	8/21/2009
2-Methylnaphthalene	BQL	5.43	1	8/21/2009
2-Methylphenol	BQL	5.43	1	8/21/2009
3- & 4-Methylphenol	BQL	5.43	1	8/21/2009
3-Methylcholanthrene	BQL	5.43	1	8/21/2009
Naphthalene	BQL	5.43	1	8/21/2009
1,4-Naphthoquinone	BQL	5.43	1	8/21/2009
1-Naphthylamine	BQL	27.2	1	8/21/2009
2-Naphthylamine	BQL	27.2	1	8/21/2009
5-Nitro-o-toluidine	BQL	5.43	1	8/21/2009
2-Nitroaniline	BQL	5.43	1	8/21/2009
3-Nitroaniline	BQL	27.2	1	8/21/2009
4-Nitroaniline	BQL	27.2	1	8/21/2009
Nitrobenzene	BQL	5.43	1	8/21/2009
2-Nitrophenol	BQL	5.43	1	8/21/2009
4-Nitrophenol	BQL	27.2	1	8/21/2009
4-Nitroquinoline-1-oxide	BQL	27.2	1	8/21/2009
N-Nitroso-di-n-butylamine	BQL	5.43	1	8/21/2009
N-Nitrosodi-n-propylamine	BQL	5.43	1	8/21/2009
N-Nitrosodiethylamine	BQL	5.43	1	8/21/2009
N-Nitrosodimethylamine	BQL	5.43	1	8/21/2009

Results for Semivolatiles
by GCMS 8270-Appendix II

Client Sample ID: MW11-081009
Client Project ID: C&D Landfill, Inc.
Lab Sample ID: G1081-2-6R
Lab Project ID: G1081-2

Initial Volume: 920 mL

Analyzed By: EAW
Date Collected: 8/10/2009 13:53
Date Received: 8/12/2009
Date Extracted: 8/14/2009
Matrix: Water

Compound	Result ug/L	RL ug/L	Dilution Factor	Date Analyzed
N-Nitrosomethylethylamine	BQL	5.43	1	8/21/2009
N-Nitrosomorpholine	BQL	5.43	1	8/21/2009
N-Nitrosopiperidine	BQL	5.43	1	8/21/2009
N-Nitrosopyrrolidine	BQL	5.43	1	8/21/2009
Parathion	BQL	10.9	1	8/21/2009
Pentachlorobenzene	BQL	5.43	1	8/21/2009
Pentachloronitrobenzene	BQL	5.43	1	8/21/2009
Pentachlorophenol	BQL	27.2	1	8/21/2009
Phenacetin	BQL	5.43	1	8/21/2009
Phenanthrene	BQL	5.43	1	8/21/2009
Phenol	BQL	5.43	1	8/21/2009
p-Phenylenediamine	BQL	10.9	1	8/21/2009
Phorate	BQL	10.9	1	8/21/2009
2-Piccoline	BQL	5.43	1	8/21/2009
Pronamide	BQL	5.43	1	8/21/2009
Pyrene	BQL	5.43	1	8/21/2009
Pyridine	BQL	5.43	1	8/21/2009
Safrole	BQL	5.43	1	8/21/2009
Sulfotep	BQL	5.43	1	8/21/2009
1,2,4,5-Tetrachlorobenzene	BQL	5.43	1	8/21/2009
2,3,4,6-Tetrachlorophenol	BQL	5.43	1	8/21/2009
Thionazin	BQL	10.9	1	8/21/2009
o-Toluidine	BQL	5.43	1	8/21/2009
1,2,4-Trichlorobenzene	BQL	5.43	1	8/21/2009
2,4,5-Trichlorophenol	BQL	5.43	1	8/21/2009
2,4,6-Trichlorophenol	BQL	5.43	1	8/21/2009
O,O,O-Triethylphosphorothioate	BQL	5.43	1	8/21/2009
1,3,5-Trinitrobenzene	BQL	27.2	1	8/21/2009

	Spike Added	Spike Result	Percent Recovered
2-Fluorobiphenyl	10	9.3	93
2-Fluorophenol	10	8.4	84
Nitrobenzene-d5	10	8.7	87
Phenol-d6	10	8.8	88
2,4,6-Tribromophenol	10	8.3	83
4-Terphenyl-d14	10	13.1	131

Comments:
* N-Nitrosodiphenylamine is reported as the breakdown product Diphenylamine.

Flags:
BQL = Below Quantitation Limits.

Reviewed By: _____

Results for Semivolatiles
by GCMS 8270-Appendix II

Client Sample ID: MW8-081009
Client Project ID: C&D Landfill, Inc.
Lab Sample ID: G1081-2-7R
Lab Project ID: G1081-2

Initial Volume: 975 mL

Analyzed By: EAW
Date Collected: 8/10/2009 15:25
Date Received: 8/12/2009
Date Extracted: 8/14/2009
Matrix: Water

Compound	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flag
Acenaphthene	BQL	5.13	1.14	1	8/21/2009	
Acenaphthylene	BQL	5.13	1.08	1	8/21/2009	
Acetophenone	BQL	5.13	0.523	1	8/21/2009	
2-Acetylaminofluorene	BQL	10.3	5.06	1	8/21/2009	
4-Aminobiphenyl	BQL	5.13	0.836	1	8/21/2009	
Aniline	BQL	5.13	2.32	1	8/21/2009	
Anthracene	BQL	5.13	1.23	1	8/21/2009	
Aramite	BQL	5.13	1.88	1	8/21/2009	
Benzidine	BQL	10.3	0.990	1	8/21/2009	
Benzo[a]anthracene	BQL	5.13	1.14	1	8/21/2009	
Benzo[a]pyrene	BQL	5.13	1.01	1	8/21/2009	
Benzo[b]fluoranthene	BQL	5.13	0.959	1	8/21/2009	
Benzo[g,h,i]perylene	BQL	5.13	1.15	1	8/21/2009	
Benzo[k]fluoranthene	BQL	5.13	1.42	1	8/21/2009	
Benzyl Alcohol	BQL	10.3	1.30	1	8/21/2009	
Bis(2-chloroethoxy)methane	BQL	5.13	1.18	1	8/21/2009	
Bis(2-chloroethyl)ether	BQL	5.13	1.14	1	8/21/2009	
Bis(2-chloroisopropyl)ether	BQL	5.13	1.09	1	8/21/2009	
Bis(2-ethylhexyl)phthalate	BQL	5.13	1.30	1	8/21/2009	
4-Bromophenyl phenyl ether	BQL	5.13	1.13	1	8/21/2009	
Butylbenzylphthalate	BQL	5.13	1.14	1	8/21/2009	
Chlorobenzilate	BQL	5.13	1.14	1	8/21/2009	
2-Chloronaphthalene	BQL	5.13	0.877	1	8/21/2009	
2-Chlorophenol	BQL	5.13	1.04	1	8/21/2009	
4-Chloro-3-methylphenol	BQL	5.13	1.05	1	8/21/2009	
4-Chloroaniline	BQL	5.13	1.57	1	8/21/2009	
4-Chlorophenyl phenyl ether	BQL	5.13	1.13	1	8/21/2009	
Chrysene	BQL	5.13	1.34	1	8/21/2009	
Diallate	BQL	5.13	2.28	1	8/21/2009	
Dibenz[a,j]acridine	BQL	5.13	5.12	1	8/21/2009	
Dibenzo[a,h]anthracene	BQL	5.13	1.18	1	8/21/2009	
Dibenzofuran	BQL	5.13	1.30	1	8/21/2009	
Di-n-Butylphthalate	BQL	5.13	1.45	1	8/21/2009	
1,2-Dichlorobenzene	BQL	5.13	0.641	1	8/21/2009	
1,3-Dichlorobenzene	BQL	5.13	0.533	1	8/21/2009	
1,4-Dichlorobenzene	BQL	5.13	0.549	1	8/21/2009	
3,3'-Dichlorobenzidine	BQL	10.3	1.29	1	8/21/2009	
2,4-Dichlorophenol	BQL	5.13	0.944	1	8/21/2009	
2,6-Dichlorophenol	BQL	5.13	1.23	1	8/21/2009	
Diethylphthalate	BQL	5.13	1.39	1	8/21/2009	
Dimethoate	BQL	5.13	2.93	1	8/21/2009	
3,3'-Dimethylbenzidine	BQL	25.6	6.26	1	8/21/2009	
a,a-Dimethylphenethylamine	BQL	25.6	10.3	1	8/21/2009	
Dimethylphthalate	BQL	5.13	1.23	1	8/21/2009	
p-Dimethylaminoazobenzene	BQL	5.13	0.123	1	8/21/2009	
7,12-Dimethylbenz[a]anthracene	BQL	5.13	2.54	1	8/21/2009	
2,4-Dimethylphenol	BQL	5.13	0.703	1	8/21/2009	

Results for Semivolatiles
by GCMS 8270-Appendix II

Client Sample ID: MW8-081009
Client Project ID: C&D Landfill, Inc.
Lab Sample ID: G1081-2-7R
Lab Project ID: G1081-2

Initial Volume: 975 mL

Analyzed By: EAW
Date Collected: 8/10/2009 15:25
Date Received: 8/12/2009
Date Extracted: 8/14/2009
Matrix: Water

Compound	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flag
Di-n-octylphthalate	**1.74**	5.13	1.10	1	8/21/2009	J
4,6-Dinitro-2-methylphenol	BQL	25.6	0.564	1	8/21/2009	
m-Dinitrobenzene	BQL	5.13	0.759	1	8/21/2009	
2,4-Dinitrophenol	BQL	25.6	0.749	1	8/21/2009	
2,4-Dinitrotoluene	BQL	5.13	1.24	1	8/21/2009	
2,6-Dinitrotoluene	BQL	5.13	1.36	1	8/21/2009	
Dinoseb	BQL	25.6	4.48	1	8/21/2009	
Diphenylamine *	BQL	5.13	1.37	1	8/21/2009	
Disulfoton	BQL	5.13	0.087	1	8/21/2009	
Ethylmethanesulfonate	BQL	5.13	1.02	1	8/21/2009	
Famphur	BQL	25.6	7.26	1	8/21/2009	
Fluoranthene	BQL	5.13	1.42	1	8/21/2009	
Fluorene	BQL	5.13	1.31	1	8/21/2009	
Hexachlorobenzene	BQL	25.6	1.68	1	8/21/2009	
Hexachlorobutadiene	BQL	5.13	0.636	1	8/21/2009	
Hexachlorocyclopentadiene	BQL	10.3	10.3	1	8/21/2009	
Hexachloroethane	BQL	5.13	0.759	1	8/21/2009	
Hexachlorophene	BQL	5.13	2.33	1	8/21/2009	
Hexachloropropene	BQL	10.3	0.503	1	8/21/2009	
Indeno(1,2,3-c,d)pyrene	BQL	5.13	1.07	1	8/21/2009	
Isodrin	BQL	5.13	1.37	1	8/21/2009	
Isophorone	BQL	5.13	0.990	1	8/21/2009	
Isosafrole	BQL	5.13	0.974	1	8/21/2009	
Kepone	BQL	25.6	14.7	1	8/21/2009	
Methapyrilene	BQL	5.13	5.13	1	8/21/2009	
Methyl parathion	BQL	5.13	2.76	1	8/21/2009	
Methylmethanesulfonate	BQL	5.13	1.10	1	8/21/2009	
2-Methylnaphthalene	BQL	5.13	0.846	1	8/21/2009	
2-Methylphenol	BQL	5.13	0.790	1	8/21/2009	
3- & 4-Methylphenol	BQL	5.13	1.72	1	8/21/2009	
3-Methylcholanthrene	BQL	5.13	0.600	1	8/21/2009	
Naphthalene	BQL	5.13	0.805	1	8/21/2009	
1,4-Naphthoquinone	BQL	5.13	1.15	1	8/21/2009	
1-Naphthylamine	BQL	25.6	0.564	1	8/21/2009	
2-Naphthylamine	BQL	25.6	0.415	1	8/21/2009	
5-Nitro-o-toluidine	BQL	5.13	0.610	1	8/21/2009	
2-Nitroaniline	BQL	5.13	1.41	1	8/21/2009	
3-Nitroaniline	BQL	25.6	1.23	1	8/21/2009	
4-Nitroaniline	BQL	25.6	1.07	1	8/21/2009	
Nitrobenzene	BQL	5.13	1.03	1	8/21/2009	
2-Nitrophenol	BQL	5.13	0.918	1	8/21/2009	
4-Nitrophenol	BQL	25.6	0.918	1	8/21/2009	
4-Nitroquinoline-1-oxide	BQL	25.6	5.13	1	8/21/2009	
N-Nitroso-di-n-butylamine	BQL	5.13	0.713	1	8/21/2009	
N-Nitrosodi-n-propylamine	BQL	5.13	1.54	1	8/21/2009	
N-Nitrosodiethylamine	BQL	5.13	1.31	1	8/21/2009	
N-Nitrosodimethylamine	BQL	5.13	0.892	1	8/21/2009	

Results for Semivolatiles
by GCMS 8270-Appendix II

Client Sample ID: MW8-081009
Client Project ID: C&D Landfill, Inc.
Lab Sample ID: G1081-2-7R
Lab Project ID: G1081-2

Initial Volume: 975 mL

Analyzed By: EAW
Date Collected: 8/10/2009 15:25
Date Received: 8/12/2009
Date Extracted: 8/14/2009
Matrix: Water

Compound	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flag
N-Nitrosomethylethylamine	BQL	5.13	6.46	1	8/21/2009	
N-Nitrosomorpholine	BQL	5.13	0.636	1	8/21/2009	
N-Nitrosopiperidine	BQL	5.13	1.68	1	8/21/2009	
N-Nitrosopyrrolidine	BQL	5.13	3.60	1	8/21/2009	
Parathion	BQL	10.3	0.615	1	8/21/2009	
Pentachlorobenzene	BQL	5.13	1.15	1	8/21/2009	
Pentachloronitrobenzene	BQL	5.13	1.23	1	8/21/2009	
Pentachlorophenol	BQL	25.6	1.45	1	8/21/2009	
Phenacetin	BQL	5.13	1.19	1	8/21/2009	
Phenanthrene	BQL	5.13	1.23	1	8/21/2009	
Phenol	BQL	5.13	0.933	1	8/21/2009	
p-Phenylenediamine	BQL	10.3	1.96	1	8/21/2009	
Phorate	BQL	10.3	0.436	1	8/21/2009	
2-Piccoline	BQL	5.13	0.851	1	8/21/2009	
Pronamide	BQL	5.13	0.626	1	8/21/2009	
Pyrene	BQL	5.13	1.19	1	8/21/2009	
Pyridine	BQL	5.13	1.95	1	8/21/2009	
Safrole	BQL	5.13	0.995	1	8/21/2009	
Sulfotep	BQL	5.13	0.733	1	8/21/2009	
1,2,4,5-Tetrachlorobenzene	BQL	5.13	0.779	1	8/21/2009	
2,3,4,6-Tetrachlorophenol	BQL	5.13	0.564	1	8/21/2009	
Thionazin	BQL	10.3	2.61	1	8/21/2009	
o-Toluidine	BQL	5.13	0.841	1	8/21/2009	
1,2,4-Trichlorobenzene	BQL	5.13	0.795	1	8/21/2009	
2,4,5-Trichlorophenol	BQL	5.13	1.17	1	8/21/2009	
2,4,6-Trichlorophenol	BQL	5.13	0.949	1	8/21/2009	
O,O,O-Triethylphosphorothioate	BQL	5.13	1.27	1	8/21/2009	
1,3,5-Trinitrobenzene	BQL	25.6	1.09	1	8/21/2009	

	Spike Added	Spike Result	Percent Recovered
2-Fluorobiphenyl	10	8.8	88
2-Fluorophenol	10	7.9	79
Nitrobenzene-d5	10	8.7	87
Phenol-d6	10	8.7	87
2,4,6-Tribromophenol	10	9.6	96
4-Terphenyl-d14	10	8.3	83

Comments:

* N-Nitrosodiphenylamine is reported as the breakdown product Diphenylamine.

Flags:

BQL = Below Quantitation Limits.
J = Detected below the quantitation limit.

Reviewed By: _____

Results for Semivolatiles
by GCMS 8270-Appendix II

Client Sample ID: MW12s-081109
Client Project ID: C&D Landfill, Inc.
Lab Sample ID: G1081-2-8R
Lab Project ID: G1081-2

Initial Volume: 934 mL

Analyzed By: EAW
Date Collected: 8/11/2009 9:13
Date Received: 8/12/2009
Date Extracted: 8/14/2009
Matrix: Water

Compound	Result ug/L	RL ug/L	Dilution Factor	Date Analyzed
Acenaphthene	BQL	5.35	1	8/21/2009
Acenaphthylene	BQL	5.35	1	8/21/2009
Acetophenone	BQL	5.35	1	8/21/2009
2-Acetylaminofluorene	BQL	10.7	1	8/21/2009
4-Aminobiphenyl	BQL	5.35	1	8/21/2009
Aniline	BQL	5.35	1	8/21/2009
Anthracene	BQL	5.35	1	8/21/2009
Aramite	BQL	5.35	1	8/21/2009
Benzidine	BQL	10.7	1	8/21/2009
Benzo[a]anthracene	BQL	5.35	1	8/21/2009
Benzo[a]pyrene	BQL	5.35	1	8/21/2009
Benzo[b]fluoranthene	BQL	5.35	1	8/21/2009
Benzo[g,h,i]perylene	BQL	5.35	1	8/21/2009
Benzo[k]fluoranthene	BQL	5.35	1	8/21/2009
Benzyl Alcohol	BQL	10.7	1	8/21/2009
Bis(2-chloroethoxy)methane	BQL	5.35	1	8/21/2009
Bis(2-chloroethyl)ether	BQL	5.35	1	8/21/2009
Bis(2-chloroisopropyl)ether	BQL	5.35	1	8/21/2009
Bis(2-ethylhexyl)phthalate	BQL	5.35	1	8/21/2009
4-Bromophenyl phenyl ether	BQL	5.35	1	8/21/2009
Butylbenzylphthalate	BQL	5.35	1	8/21/2009
Chlorobenzilate	BQL	5.35	1	8/21/2009
2-Chloronaphthalene	BQL	5.35	1	8/21/2009
2-Chlorophenol	BQL	5.35	1	8/21/2009
4-Chloro-3-methylphenol	BQL	5.35	1	8/21/2009
4-Chloroaniline	BQL	5.35	1	8/21/2009
4-Chlorophenyl phenyl ether	BQL	5.35	1	8/21/2009
Chrysene	BQL	5.35	1	8/21/2009
Diallate	BQL	5.35	1	8/21/2009
Dibenz[a,j]acridine	BQL	5.35	1	8/21/2009
Dibenzo[a,h]anthracene	BQL	5.35	1	8/21/2009
Dibenzofuran	BQL	5.35	1	8/21/2009
Di-n-Butylphthalate	BQL	5.35	1	8/21/2009
1,2-Dichlorobenzene	BQL	5.35	1	8/21/2009
1,3-Dichlorobenzene	BQL	5.35	1	8/21/2009
1,4-Dichlorobenzene	BQL	5.35	1	8/21/2009
3,3'-Dichlorobenzidine	BQL	10.7	1	8/21/2009
2,4-Dichlorophenol	BQL	5.35	1	8/21/2009
2,6-Dichlorophenol	BQL	5.35	1	8/21/2009
Diethylphthalate	BQL	5.35	1	8/21/2009
Dimethoate	BQL	5.35	1	8/21/2009
3,3'-Dimethylbenzidine	BQL	26.8	1	8/21/2009
a,a-Dimethylphenethylamine	BQL	26.8	1	8/21/2009
Dimethylphthalate	BQL	5.35	1	8/21/2009
p-Dimethylaminoazobenzene	BQL	5.35	1	8/21/2009
7,12-Dimethylbenz[a]anthracene	BQL	5.35	1	8/21/2009
2,4-Dimethylphenol	BQL	5.35	1	8/21/2009

Results for Semivolatiles
by GCMS 8270-Appendix II

Client Sample ID: MW12s-081109
Client Project ID: C&D Landfill, Inc.
Lab Sample ID: G1081-2-8R
Lab Project ID: G1081-2

Initial Volume: 934 mL

Analyzed By: EAW
Date Collected: 8/11/2009 9:13
Date Received: 8/12/2009
Date Extracted: 8/14/2009
Matrix: Water

Compound	Result ug/L	RL ug/L	Dilution Factor	Date Analyzed
Di-n-octylphthalate	BQL	5.35	1	8/21/2009
4,6-Dinitro-2-methylphenol	BQL	26.8	1	8/21/2009
m-Dinitrobenzene	BQL	5.35	1	8/21/2009
2,4-Dinitrophenol	BQL	26.8	1	8/21/2009
2,4-Dinitrotoluene	BQL	5.35	1	8/21/2009
2,6-Dinitrotoluene	BQL	5.35	1	8/21/2009
Dinoseb	BQL	26.8	1	8/21/2009
Diphenylamine *	BQL	5.35	1	8/21/2009
Disulfoton	BQL	5.35	1	8/21/2009
Ethylmethanesulfonate	BQL	5.35	1	8/21/2009
Famphur	BQL	26.8	1	8/21/2009
Fluoranthene	BQL	5.35	1	8/21/2009
Fluorene	BQL	5.35	1	8/21/2009
Hexachlorobenzene	BQL	26.8	1	8/21/2009
Hexachlorobutadiene	BQL	5.35	1	8/21/2009
Hexachlorocyclopentadiene	BQL	10.7	1	8/21/2009
Hexachloroethane	BQL	5.35	1	8/21/2009
Hexachlorophene	BQL	5.35	1	8/21/2009
Hexachloropropene	BQL	10.7	1	8/21/2009
Indeno(1,2,3-c,d)pyrene	BQL	5.35	1	8/21/2009
Isodrin	BQL	5.35	1	8/21/2009
Isophorone	BQL	5.35	1	8/21/2009
Isosafrole	BQL	5.35	1	8/21/2009
Kepone	BQL	26.8	1	8/21/2009
Methapyrilene	BQL	5.35	1	8/21/2009
Methyl parathion	BQL	5.35	1	8/21/2009
Methylmethanesulfonate	BQL	5.35	1	8/21/2009
2-Methylnaphthalene	BQL	5.35	1	8/21/2009
2-Methylphenol	BQL	5.35	1	8/21/2009
3- & 4-Methylphenol	BQL	5.35	1	8/21/2009
3-Methylcholanthrene	BQL	5.35	1	8/21/2009
Naphthalene	BQL	5.35	1	8/21/2009
1,4-Naphthoquinone	BQL	5.35	1	8/21/2009
1-Naphthylamine	BQL	26.8	1	8/21/2009
2-Naphthylamine	BQL	26.8	1	8/21/2009
5-Nitro-o-toluidine	BQL	5.35	1	8/21/2009
2-Nitroaniline	BQL	5.35	1	8/21/2009
3-Nitroaniline	BQL	26.8	1	8/21/2009
4-Nitroaniline	BQL	26.8	1	8/21/2009
Nitrobenzene	BQL	5.35	1	8/21/2009
2-Nitrophenol	BQL	5.35	1	8/21/2009
4-Nitrophenol	BQL	26.8	1	8/21/2009
4-Nitroquinoline-1-oxide	BQL	26.8	1	8/21/2009
N-Nitroso-di-n-butylamine	BQL	5.35	1	8/21/2009
N-Nitrosodi-n-propylamine	BQL	5.35	1	8/21/2009
N-Nitrosodiethylamine	BQL	5.35	1	8/21/2009
N-Nitrosodimethylamine	BQL	5.35	1	8/21/2009

Results for Semivolatiles
by GCMS 8270-Appendix II

Client Sample ID: MW12s-081109
Client Project ID: C&D Landfill, Inc.
Lab Sample ID: G1081-2-8R
Lab Project ID: G1081-2

Initial Volume: 934 mL

Analyzed By: EAW
Date Collected: 8/11/2009 9:13
Date Received: 8/12/2009
Date Extracted: 8/14/2009
Matrix: Water

Compound	Result ug/L	RL ug/L	Dilution Factor	Date Analyzed
N-Nitrosomethylethylamine	BQL	5.35	1	8/21/2009
N-Nitrosomorpholine	BQL	5.35	1	8/21/2009
N-Nitrosopiperidine	BQL	5.35	1	8/21/2009
N-Nitrosopyrrolidine	BQL	5.35	1	8/21/2009
Parathion	BQL	10.7	1	8/21/2009
Pentachlorobenzene	BQL	5.35	1	8/21/2009
Pentachloronitrobenzene	BQL	5.35	1	8/21/2009
Pentachlorophenol	BQL	26.8	1	8/21/2009
Phenacetin	BQL	5.35	1	8/21/2009
Phenanthrene	BQL	5.35	1	8/21/2009
Phenol	BQL	5.35	1	8/21/2009
p-Phenylenediamine	BQL	10.7	1	8/21/2009
Phorate	BQL	10.7	1	8/21/2009
2-Piccoline	BQL	5.35	1	8/21/2009
Pronamide	BQL	5.35	1	8/21/2009
Pyrene	BQL	5.35	1	8/21/2009
Pyridine	BQL	5.35	1	8/21/2009
Safrole	BQL	5.35	1	8/21/2009
Sulfotep	BQL	5.35	1	8/21/2009
1,2,4,5-Tetrachlorobenzene	BQL	5.35	1	8/21/2009
2,3,4,6-Tetrachlorophenol	BQL	5.35	1	8/21/2009
Thionazin	BQL	10.7	1	8/21/2009
o-Toluidine	BQL	5.35	1	8/21/2009
1,2,4-Trichlorobenzene	BQL	5.35	1	8/21/2009
2,4,5-Trichlorophenol	BQL	5.35	1	8/21/2009
2,4,6-Trichlorophenol	BQL	5.35	1	8/21/2009
O,O,O-Triethylphosphorothioate	BQL	5.35	1	8/21/2009
1,3,5-Trinitrobenzene	BQL	26.8	1	8/21/2009

	Spike Added	Spike Result	Percent Recovered
2-Fluorobiphenyl	10	9.2	92
2-Fluorophenol	10	7.7	77
Nitrobenzene-d5	10	9.8	98
Phenol-d6	10	8.3	83
2,4,6-Tribromophenol	10	8.1	81
4-Terphenyl-d14	10	13.3	133

Comments:

* N-Nitrosodiphenylamine is reported as the breakdown product Diphenylamine.

Flags:

BQL = Below Quantitation Limits.

Reviewed By: _____

Results for Semivolatiles
by GCMS 8270-Appendix II

Client Sample ID: MW3s-081109
Client Project ID: C&D Landfill, Inc.
Lab Sample ID: G1081-2-9R
Lab Project ID: G1081-2

Initial Volume: 925 mL

Analyzed By: EAW
Date Collected: 8/11/2009 12:13
Date Received: 8/12/2009
Date Extracted: 8/14/2009
Matrix: Water

Compound	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flag
Acenaphthene	**4.65**	5.41	1.20	1	8/21/2009	J
Acenaphthylene	BQL	5.41	1.14	1	8/21/2009	
Acetophenone	BQL	5.41	0.551	1	8/21/2009	
2-Acetylaminofluorene	BQL	10.8	5.34	1	8/21/2009	
4-Aminobiphenyl	BQL	5.41	0.881	1	8/21/2009	
Aniline	BQL	5.41	2.44	1	8/21/2009	
Anthracene	BQL	5.41	1.30	1	8/21/2009	
Aramite	BQL	5.41	1.98	1	8/21/2009	
Benzidine	BQL	10.8	1.04	1	8/21/2009	
Benzo[a]anthracene	BQL	5.41	1.20	1	8/21/2009	
Benzo[a]pyrene	BQL	5.41	1.06	1	8/21/2009	
Benzo[b]fluoranthene	BQL	5.41	1.01	1	8/21/2009	
Benzo[g,h,i]perylene	BQL	5.41	1.21	1	8/21/2009	
Benzo[k]fluoranthene	BQL	5.41	1.49	1	8/21/2009	
Benzyl Alcohol	BQL	10.8	1.37	1	8/21/2009	
Bis(2-chloroethoxy)methane	BQL	5.41	1.24	1	8/21/2009	
Bis(2-chloroethyl)ether	BQL	5.41	1.20	1	8/21/2009	
Bis(2-chloroisopropyl)ether	BQL	5.41	1.15	1	8/21/2009	
Bis(2-ethylhexyl)phthalate	BQL	5.41	1.37	1	8/21/2009	
4-Bromophenyl phenyl ether	BQL	5.41	1.19	1	8/21/2009	
Butylbenzylphthalate	BQL	5.41	1.20	1	8/21/2009	
Chlorobenzilate	BQL	5.41	1.20	1	8/21/2009	
2-Chloronaphthalene	BQL	5.41	0.924	1	8/21/2009	
2-Chlorophenol	BQL	5.41	1.09	1	8/21/2009	
4-Chloro-3-methylphenol	BQL	5.41	1.10	1	8/21/2009	
4-Chloroaniline	BQL	5.41	1.65	1	8/21/2009	
4-Chlorophenyl phenyl ether	BQL	5.41	1.19	1	8/21/2009	
Chrysene	BQL	5.41	1.42	1	8/21/2009	
Diallate	BQL	5.41	2.41	1	8/21/2009	
Dibenz[a,j]acridine	BQL	5.41	5.40	1	8/21/2009	
Dibenzo[a,h]anthracene	BQL	5.41	1.24	1	8/21/2009	
Dibenzofuran	**1.89**	5.41	1.37	1	8/21/2009	J
Di-n-Butylphthalate	BQL	5.41	1.52	1	8/21/2009	
1,2-Dichlorobenzene	BQL	5.41	0.676	1	8/21/2009	
1,3-Dichlorobenzene	BQL	5.41	0.562	1	8/21/2009	
1,4-Dichlorobenzene	BQL	5.41	0.578	1	8/21/2009	
3,3'-Dichlorobenzidine	BQL	10.8	1.36	1	8/21/2009	
2,4-Dichlorophenol	BQL	5.41	0.995	1	8/21/2009	
2,6-Dichlorophenol	BQL	5.41	1.30	1	8/21/2009	
Diethylphthalate	BQL	5.41	1.47	1	8/21/2009	
Dimethoate	BQL	5.41	3.09	1	8/21/2009	
3,3'-Dimethylbenzidine	BQL	27.0	6.59	1	8/21/2009	
a,a-Dimethylphenethylamine	BQL	27.0	10.8	1	8/21/2009	
Dimethylphthalate	BQL	5.41	1.30	1	8/21/2009	
p-Dimethylaminoazobenzene	BQL	5.41	0.130	1	8/21/2009	
7,12-Dimethylbenz[a]anthracene	BQL	5.41	2.68	1	8/21/2009	
2,4-Dimethylphenol	BQL	5.41	0.741	1	8/21/2009	

Results for Semivolatiles
by GCMS 8270-Appendix II

Client Sample ID: MW3s-081109
Client Project ID: C&D Landfill, Inc.
Lab Sample ID: G1081-2-9R
Lab Project ID: G1081-2

Initial Volume: 925 mL

Analyzed By: EAW
Date Collected: 8/11/2009 12:13
Date Received: 8/12/2009
Date Extracted: 8/14/2009
Matrix: Water

Compound	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flag
Di-n-octylphthalate	BQL	5.41	1.16	1	8/21/2009	
4,6-Dinitro-2-methylphenol	BQL	27.0	0.595	1	8/21/2009	
m-Dinitrobenzene	BQL	5.41	0.800	1	8/21/2009	
2,4-Dinitrophenol	BQL	27.0	0.789	1	8/21/2009	
2,4-Dinitrotoluene	BQL	5.41	1.31	1	8/21/2009	
2,6-Dinitrotoluene	BQL	5.41	1.44	1	8/21/2009	
Dinoseb	BQL	27.0	4.72	1	8/21/2009	
Diphenylamine *	BQL	5.41	1.45	1	8/21/2009	
Disulfoton	BQL	5.41	0.092	1	8/21/2009	
Ethylmethanesulfonate	BQL	5.41	1.08	1	8/21/2009	
Famphur	BQL	27.0	7.65	1	8/21/2009	
Fluoranthene	BQL	5.41	1.49	1	8/21/2009	
Fluorene	BQL	5.41	1.38	1	8/21/2009	
Hexachlorobenzene	BQL	27.0	1.77	1	8/21/2009	
Hexachlorobutadiene	BQL	5.41	0.670	1	8/21/2009	
Hexachlorocyclopentadiene	BQL	10.8	10.8	1	8/21/2009	
Hexachloroethane	BQL	5.41	0.800	1	8/21/2009	
Hexachlorophene	BQL	5.41	2.45	1	8/21/2009	
Hexachloropropene	BQL	10.8	0.530	1	8/21/2009	
Indeno(1,2,3-c,d)pyrene	BQL	5.41	1.12	1	8/21/2009	
Isodrin	BQL	5.41	1.45	1	8/21/2009	
Isophorone	BQL	5.41	1.04	1	8/21/2009	
Isosafrole	BQL	5.41	1.03	1	8/21/2009	
Kepone	BQL	27.0	15.5	1	8/21/2009	
Methapyrilene	BQL	5.41	5.41	1	8/21/2009	
Methyl parathion	BQL	5.41	2.91	1	8/21/2009	
Methylmethanesulfonate	BQL	5.41	1.16	1	8/21/2009	
2-Methylnaphthalene	BQL	5.41	0.892	1	8/21/2009	
2-Methylphenol	BQL	5.41	0.832	1	8/21/2009	
3- & 4-Methylphenol	BQL	5.41	1.82	1	8/21/2009	
3-Methylcholanthrene	BQL	5.41	0.632	1	8/21/2009	
Naphthalene	BQL	5.41	0.849	1	8/21/2009	
1,4-Naphthoquinone	BQL	5.41	1.21	1	8/21/2009	
1-Naphthylamine	BQL	27.0	0.595	1	8/21/2009	
2-Naphthylamine	BQL	27.0	0.438	1	8/21/2009	
5-Nitro-o-toluidine	BQL	5.41	0.643	1	8/21/2009	
2-Nitroaniline	BQL	5.41	1.48	1	8/21/2009	
3-Nitroaniline	BQL	27.0	1.30	1	8/21/2009	
4-Nitroaniline	BQL	27.0	1.12	1	8/21/2009	
Nitrobenzene	BQL	5.41	1.08	1	8/21/2009	
2-Nitrophenol	BQL	5.41	0.968	1	8/21/2009	
4-Nitrophenol	BQL	27.0	0.968	1	8/21/2009	
4-Nitroquinoline-1-oxide	BQL	27.0	5.41	1	8/21/2009	
N-Nitroso-di-n-butylamine	BQL	5.41	0.751	1	8/21/2009	
N-Nitrosodi-n-propylamine	BQL	5.41	1.62	1	8/21/2009	
N-Nitrosodiethylamine	BQL	5.41	1.38	1	8/21/2009	
N-Nitrosodimethylamine	BQL	5.41	0.941	1	8/21/2009	

Results for Semivolatiles
by GCMS 8270-Appendix II

Client Sample ID: MW3s-081109
Client Project ID: C&D Landfill, Inc.
Lab Sample ID: G1081-2-9R
Lab Project ID: G1081-2

Initial Volume: 925 mL

Analyzed By: EAW
Date Collected: 8/11/2009 12:13
Date Received: 8/12/2009
Date Extracted: 8/14/2009
Matrix: Water

Compound	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flag
N-Nitrosomethylethylamine	BQL	5.41	6.81	1	8/21/2009	
N-Nitrosomorpholine	BQL	5.41	0.670	1	8/21/2009	
N-Nitrosopiperidine	BQL	5.41	1.77	1	8/21/2009	
N-Nitrosopyrrolidine	BQL	5.41	3.79	1	8/21/2009	
Parathion	BQL	10.8	0.649	1	8/21/2009	
Pentachlorobenzene	BQL	5.41	1.21	1	8/21/2009	
Pentachloronitrobenzene	BQL	5.41	1.30	1	8/21/2009	
Pentachlorophenol	BQL	27.0	1.53	1	8/21/2009	
Phenacetin	BQL	5.41	1.25	1	8/21/2009	
Phenanthrene	BQL	5.41	1.30	1	8/21/2009	
Phenol	BQL	5.41	0.984	1	8/21/2009	
p-Phenylenediamine	BQL	10.8	2.06	1	8/21/2009	
Phorate	BQL	10.8	0.459	1	8/21/2009	
2-Piccoline	BQL	5.41	0.897	1	8/21/2009	
Pronamide	BQL	5.41	0.659	1	8/21/2009	
Pyrene	BQL	5.41	1.25	1	8/21/2009	
Pyridine	BQL	5.41	2.05	1	8/21/2009	
Safrole	BQL	5.41	1.05	1	8/21/2009	
Sulfotep	BQL	5.41	0.773	1	8/21/2009	
1,2,4,5-Tetrachlorobenzene	BQL	5.41	0.822	1	8/21/2009	
2,3,4,6-Tetrachlorophenol	BQL	5.41	0.595	1	8/21/2009	
Thionazin	BQL	10.8	2.75	1	8/21/2009	
o-Toluidine	BQL	5.41	0.886	1	8/21/2009	
1,2,4-Trichlorobenzene	BQL	5.41	0.838	1	8/21/2009	
2,4,5-Trichlorophenol	BQL	5.41	1.23	1	8/21/2009	
2,4,6-Trichlorophenol	BQL	5.41	1.00	1	8/21/2009	
O,O,O-Triethylphosphorothioate	BQL	5.41	1.34	1	8/21/2009	
1,3,5-Trinitrobenzene	BQL	27.0	1.15	1	8/21/2009	

	Spike Added	Spike Result	Percent Recovered
2-Fluorobiphenyl	10	8.3	83
2-Fluorophenol	10	7.4	74
Nitrobenzene-d5	10	8.8	88
Phenol-d6	10	8.2	82
2,4,6-Tribromophenol	10	10.1	101
4-Terphenyl-d14	10	7	70

Comments:

* N-Nitrosodiphenylamine is reported as the breakdown product Diphenylamine.

Flags:

BQL = Below Quantitation Limits.
J = Detected below the quantitation limit.

Reviewed By: _____

Results for Semivolatiles
by GCMS 8270-Appendix II

Client Sample ID: MW3A-081109
Client Project ID: C&D Landfill, Inc.
Lab Sample ID: G1081-2-10R
Lab Project ID: G1081-2

Initial Volume: 936 mL

Analyzed By: EAW
Date Collected: 8/11/2009 13:38
Date Received: 8/12/2009
Date Extracted: 8/14/2009
Matrix: Water

Compound	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flag
Acenaphthene	BQL	5.34	1.19	1	8/21/2009	
Acenaphthylene	BQL	5.34	1.12	1	8/21/2009	
Acetophenone	BQL	5.34	0.545	1	8/21/2009	
2-Acetylaminofluorene	BQL	10.7	5.27	1	8/21/2009	
4-Aminobiphenyl	BQL	5.34	0.871	1	8/21/2009	
Aniline	BQL	5.34	2.41	1	8/21/2009	
Anthracene	BQL	5.34	1.28	1	8/21/2009	
Aramite	BQL	5.34	1.96	1	8/21/2009	
Benzidine	BQL	10.7	1.03	1	8/21/2009	
Benzo[a]anthracene	BQL	5.34	1.19	1	8/21/2009	
Benzo[a]pyrene	BQL	5.34	1.05	1	8/21/2009	
Benzo[b]fluoranthene	BQL	5.34	0.999	1	8/21/2009	
Benzo[g,h,i]perylene	BQL	5.34	1.20	1	8/21/2009	
Benzo[k]fluoranthene	BQL	5.34	1.47	1	8/21/2009	
Benzyl Alcohol	BQL	10.7	1.36	1	8/21/2009	
Bis(2-chloroethoxy)methane	BQL	5.34	1.23	1	8/21/2009	
Bis(2-chloroethyl)ether	BQL	5.34	1.19	1	8/21/2009	
Bis(2-chloroisopropyl)ether	BQL	5.34	1.13	1	8/21/2009	
Bis(2-ethylhexyl)phthalate	BQL	5.34	1.36	1	8/21/2009	
4-Bromophenyl phenyl ether	BQL	5.34	1.18	1	8/21/2009	
Butylbenzylphthalate	BQL	5.34	1.19	1	8/21/2009	
Chlorobenzilate	BQL	5.34	1.19	1	8/21/2009	
2-Chloronaphthalene	BQL	5.34	0.913	1	8/21/2009	
2-Chlorophenol	BQL	5.34	1.08	1	8/21/2009	
4-Chloro-3-methylphenol	BQL	5.34	1.09	1	8/21/2009	
4-Chloroaniline	BQL	5.34	1.63	1	8/21/2009	
4-Chlorophenyl phenyl ether	BQL	5.34	1.18	1	8/21/2009	
Chrysene	BQL	5.34	1.40	1	8/21/2009	
Diallate	BQL	5.34	2.38	1	8/21/2009	
Dibenz[a,j]acridine	BQL	5.34	5.34	1	8/21/2009	
Dibenzo[a,h]anthracene	BQL	5.34	1.23	1	8/21/2009	
Dibenzofuran	BQL	5.34	1.36	1	8/21/2009	
Di-n-Butylphthalate	BQL	5.34	1.51	1	8/21/2009	
1,2-Dichlorobenzene	BQL	5.34	0.668	1	8/21/2009	
1,3-Dichlorobenzene	BQL	5.34	0.556	1	8/21/2009	
1,4-Dichlorobenzene	BQL	5.34	0.572	1	8/21/2009	
3,3'-Dichlorobenzidine	BQL	10.7	1.35	1	8/21/2009	
2,4-Dichlorophenol	BQL	5.34	0.983	1	8/21/2009	
2,6-Dichlorophenol	BQL	5.34	1.28	1	8/21/2009	
Diethylphthalate	BQL	5.34	1.45	1	8/21/2009	
Dimethoate	BQL	5.34	3.05	1	8/21/2009	
3,3'-Dimethylbenzidine	BQL	26.7	6.52	1	8/21/2009	
a,a-Dimethylphenethylamine	BQL	26.7	10.7	1	8/21/2009	
Dimethylphthalate	BQL	5.34	1.28	1	8/21/2009	
p-Dimethylaminoazobenzene	BQL	5.34	0.128	1	8/21/2009	
7,12-Dimethylbenz[a]anthracene	BQL	5.34	2.64	1	8/21/2009	
2,4-Dimethylphenol	BQL	5.34	0.732	1	8/21/2009	

Results for Semivolatiles
by GCMS 8270-Appendix II

Client Sample ID: MW3A-081109
Client Project ID: C&D Landfill, Inc.
Lab Sample ID: G1081-2-10R
Lab Project ID: G1081-2

Initial Volume: 936 mL

Analyzed By: EAW
Date Collected: 8/11/2009 13:38
Date Received: 8/12/2009
Date Extracted: 8/14/2009
Matrix: Water

Compound	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flag
Di-n-octylphthalate	BQL	5.34	1.14	1	8/21/2009	
4,6-Dinitro-2-methylphenol	BQL	26.7	0.588	1	8/21/2009	
m-Dinitrobenzene	BQL	5.34	0.791	1	8/21/2009	
2,4-Dinitrophenol	BQL	26.7	0.780	1	8/21/2009	
2,4-Dinitrotoluene	BQL	5.34	1.29	1	8/21/2009	
2,6-Dinitrotoluene	BQL	5.34	1.42	1	8/21/2009	
Dinoseb	BQL	26.7	4.66	1	8/21/2009	
Diphenylamine *	BQL	5.34	1.43	1	8/21/2009	
Disulfoton	BQL	5.34	0.091	1	8/21/2009	
Ethylmethanesulfonate	BQL	5.34	1.06	1	8/21/2009	
Famphur	BQL	26.7	7.56	1	8/21/2009	
Fluoranthene	BQL	5.34	1.47	1	8/21/2009	
Fluorene	BQL	5.34	1.37	1	8/21/2009	
Hexachlorobenzene	BQL	26.7	1.75	1	8/21/2009	
Hexachlorobutadiene	BQL	5.34	0.662	1	8/21/2009	
Hexachlorocyclopentadiene	BQL	10.7	10.7	1	8/21/2009	
Hexachloroethane	BQL	5.34	0.791	1	8/21/2009	
Hexachlorophene	BQL	5.34	2.43	1	8/21/2009	
Hexachloropropene	BQL	10.7	0.524	1	8/21/2009	
Indeno(1,2,3-c,d)pyrene	BQL	5.34	1.11	1	8/21/2009	
Isodrin	BQL	5.34	1.43	1	8/21/2009	
Isophorone	BQL	5.34	1.03	1	8/21/2009	
Isosafrole	BQL	5.34	1.01	1	8/21/2009	
Kepone	BQL	26.7	15.3	1	8/21/2009	
Methapyrilene	BQL	5.34	5.34	1	8/21/2009	
Methyl parathion	BQL	5.34	2.88	1	8/21/2009	
Methylmethanesulfonate	BQL	5.34	1.14	1	8/21/2009	
2-Methylnaphthalene	BQL	5.34	0.881	1	8/21/2009	
2-Methylphenol	BQL	5.34	0.823	1	8/21/2009	
3- & 4-Methylphenol	BQL	5.34	1.79	1	8/21/2009	
3-Methylcholanthrene	BQL	5.34	0.625	1	8/21/2009	
Naphthalene	BQL	5.34	0.839	1	8/21/2009	
1,4-Naphthoquinone	BQL	5.34	1.20	1	8/21/2009	
1-Naphthylamine	BQL	26.7	0.588	1	8/21/2009	
2-Naphthylamine	BQL	26.7	0.433	1	8/21/2009	
5-Nitro-o-toluidine	BQL	5.34	0.636	1	8/21/2009	
2-Nitroaniline	BQL	5.34	1.46	1	8/21/2009	
3-Nitroaniline	BQL	26.7	1.28	1	8/21/2009	
4-Nitroaniline	BQL	26.7	1.11	1	8/21/2009	
Nitrobenzene	BQL	5.34	1.07	1	8/21/2009	
2-Nitrophenol	BQL	5.34	0.956	1	8/21/2009	
4-Nitrophenol	BQL	26.7	0.956	1	8/21/2009	
4-Nitroquinoline-1-oxide	BQL	26.7	5.34	1	8/21/2009	
N-Nitroso-di-n-butylamine	BQL	5.34	0.743	1	8/21/2009	
N-Nitrosodi-n-propylamine	BQL	5.34	1.60	1	8/21/2009	
N-Nitrosodiethylamine	BQL	5.34	1.37	1	8/21/2009	
N-Nitrosodimethylamine	BQL	5.34	0.929	1	8/21/2009	

Results for Semivolatiles
by GCMS 8270-Appendix II

Client Sample ID: MW3A-081109
Client Project ID: C&D Landfill, Inc.
Lab Sample ID: G1081-2-10R
Lab Project ID: G1081-2

Initial Volume: 936 mL

Analyzed By: EAW
Date Collected: 8/11/2009 13:38
Date Received: 8/12/2009
Date Extracted: 8/14/2009
Matrix: Water

Compound	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flag
N-Nitrosomethylethylamine	BQL	5.34	6.73	1	8/21/2009	
N-Nitrosomorpholine	BQL	5.34	0.662	1	8/21/2009	
N-Nitrosopiperidine	BQL	5.34	1.75	1	8/21/2009	
N-Nitrosopyrrolidine	BQL	5.34	3.75	1	8/21/2009	
Parathion	BQL	10.7	0.641	1	8/21/2009	
Pentachlorobenzene	BQL	5.34	1.20	1	8/21/2009	
Pentachloronitrobenzene	BQL	5.34	1.28	1	8/21/2009	
Pentachlorophenol	BQL	26.7	1.51	1	8/21/2009	
Phenacetin	BQL	5.34	1.24	1	8/21/2009	
Phenanthrene	BQL	5.34	1.28	1	8/21/2009	
Phenol	BQL	5.34	0.972	1	8/21/2009	
p-Phenylenediamine	BQL	10.7	2.04	1	8/21/2009	
Phorate	BQL	10.7	0.454	1	8/21/2009	
2-Piccoline	BQL	5.34	0.887	1	8/21/2009	
Pronamide	BQL	5.34	0.652	1	8/21/2009	
Pyrene	BQL	5.34	1.24	1	8/21/2009	
Pyridine	BQL	5.34	2.03	1	8/21/2009	
Safrole	BQL	5.34	1.04	1	8/21/2009	
Sulfotep	BQL	5.34	0.764	1	8/21/2009	
1,2,4,5-Tetrachlorobenzene	BQL	5.34	0.812	1	8/21/2009	
2,3,4,6-Tetrachlorophenol	BQL	5.34	0.588	1	8/21/2009	
Thionazin	BQL	10.7	2.72	1	8/21/2009	
o-Toluidine	BQL	5.34	0.876	1	8/21/2009	
1,2,4-Trichlorobenzene	BQL	5.34	0.828	1	8/21/2009	
2,4,5-Trichlorophenol	BQL	5.34	1.22	1	8/21/2009	
2,4,6-Trichlorophenol	BQL	5.34	0.988	1	8/21/2009	
O,O,O-Triethylphosphorothioate	BQL	5.34	1.32	1	8/21/2009	
1,3,5-Trinitrobenzene	BQL	26.7	1.13	1	8/21/2009	

	Spike Added	Spike Result	Percent Recovered
2-Fluorobiphenyl	10	8.7	87
2-Fluorophenol	10	7.5	75
Nitrobenzene-d5	10	8.5	85
Phenol-d6	10	8.5	85
2,4,6-Tribromophenol	10	9.7	97
4-Terphenyl-d14	10	9.3	93

Comments:

* N-Nitrosodiphenylamine is reported as the breakdown product Diphenylamine.

Flags:

BQL = Below Quantitation Limits.
J = Detected below the quantitation limit.

Reviewed By: _____

Results for PCBs
by EPA 8082

Client Sample ID: MW10-081009
Client Project ID: C&D Landfill, Inc.
Lab Sample ID: G1081-2-5O
Lab Project ID: G1081-2
Initial Wt/Vol: 937 ML
Final Volume: 5 mL
ColumnID: STX-CLPest

Analyzed By: BWS
Date Collected: 8/10/2009 11:57
Date Received: 8/12/2009
Date Extracted: 8/12/2009
Matrix: Water

Compound	Result ug/L	Quantitation Limit ug/L	MDL	Dilution Factor	Date Analyzed	Flags
Aroclor-1016	BQL	0.534	0.0672	1	08/17/09	
Aroclor-1221	BQL	0.534	0.172	1	08/17/09	
Aroclor-1232	BQL	0.534	0.120	1	08/17/09	
Aroclor-1242	BQL	0.534	0.0544	1	08/17/09	
Aroclor-1248	BQL	0.534	0.0971	1	08/17/09	
Aroclor-1254	BQL	0.534	0.157	1	08/17/09	
Aroclor-1260	BQL	0.534	0.0843	1	08/17/09	

Surrogate Spike Recoveries	Spike Added (ug/L)	Spike Result (ug/L)	Percent Recovered (%)
TCMX	100	74.1	74.1
DCBP	100	70.8	70.8

Comments:
BQL = Below Quantitation Limit
NA = Not applicable, surrogate diluted out.

Reviewed By: _____

8082.xls

Results for PCBs
by EPA 8082

Client Sample ID: MW11-081009
Client Project ID: C&D Landfill, Inc.
Lab Sample ID: G1081-2-6O
Lab Project ID: G1081-2
Initial Wt/Vol: 900 ML
Final Volume: 5 mL
ColumnID: STX-CLPest

Analyzed By: BWS
Date Collected: 8/10/2009 13:53
Date Received: 8/12/2009
Date Extracted: 8/12/2009
Matrix: Water

Compound	Result ug/L	Quantitation Limit ug/L	MDL	Dilution Factor	Date Analyzed	Flags
Aroclor-1016	BQL	0.556	0.0700	1	08/17/09	
Aroclor-1221	BQL	0.556	0.179	1	08/17/09	
Aroclor-1232	BQL	0.556	0.126	1	08/17/09	
Aroclor-1242	BQL	0.556	0.0567	1	08/17/09	
Aroclor-1248	BQL	0.556	0.101	1	08/17/09	
Aroclor-1254	BQL	0.556	0.164	1	08/17/09	
Aroclor-1260	BQL	0.556	0.0878	1	08/17/09	

Surrogate Spike Recoveries	Spike Added (ug/L)	Spike Result (ug/L)	Percent Recovered (%)
TCMX	100	70.8	70.8
DCBP	100	63.8	63.8

Comments:
BQL = Below Quantitation Limit
NA = Not applicable, surrogate diluted out.

Reviewed By: _____

8082.xls

Results for PCBs
by EPA 8082

Client Sample ID: MW8-081009
Client Project ID: C&D Landfill, Inc.
Lab Sample ID: G1081-2-7O
Lab Project ID: G1081-2
Initial Wt/Vol: 964 ML
Final Volume: 5 mL
ColumnID: STX-CLPest

Analyzed By: BWS
Date Collected: 8/10/2009 15:25
Date Received: 8/12/2009
Date Extracted: 8/12/2009
Matrix: Water

Compound	Result ug/L	Quantitation Limit ug/L	MDL	Dilution Factor	Date Analyzed	Flags
Aroclor-1016	BQL	0.519	0.0654	1	08/17/09	
Aroclor-1221	BQL	0.519	0.167	1	08/17/09	
Aroclor-1232	BQL	0.519	0.117	1	08/17/09	
Aroclor-1242	BQL	0.519	0.0529	1	08/17/09	
Aroclor-1248	BQL	0.519	0.0944	1	08/17/09	
Aroclor-1254	BQL	0.519	0.153	1	08/17/09	
Aroclor-1260	BQL	0.519	0.0820	1	08/17/09	

Surrogate Spike Recoveries	Spike Added (ug/L)	Spike Result (ug/L)	Percent Recovered (%)	
TCMX	100	54.6	54.6	
DCBP	100	24.7	24.7	#

= Surrogate recovery is outside limits. (40-120%)

Comments:
BQL = Below Quantitation Limit
NA = Not applicable, surrogate diluted out.

Reviewed By: _____

8082.xls

Results for PCBs
by EPA 8082

Client Sample ID: MW12s-081109
Client Project ID: C&D Landfill, Inc.
Lab Sample ID: G1081-2-8O
Lab Project ID: G1081-2
Initial Wt/Vol: 934 ML
Final Volume: 5 mL
ColumnID: STX-CLPest

Analyzed By: BWS
Date Collected: 8/11/2009 9:13
Date Received: 8/12/2009
Date Extracted: 8/12/2009
Matrix: Water

Compound	Result ug/L	Quantitation Limit ug/L	MDL	Dilution Factor	Date Analyzed	Flags
Aroclor-1016	BQL	0.535	0.0674	1	08/17/09	
Aroclor-1221	BQL	0.535	0.172	1	08/17/09	
Aroclor-1232	BQL	0.535	0.121	1	08/17/09	
Aroclor-1242	BQL	0.535	0.0546	1	08/17/09	
Aroclor-1248	BQL	0.535	0.0974	1	08/17/09	
Aroclor-1254	BQL	0.535	0.158	1	08/17/09	
Aroclor-1260	BQL	0.535	0.0846	1	08/17/09	

Surrogate Spike Recoveries	Spike Added (ug/L)	Spike Result (ug/L)	Percent Recovered (%)
TCMX	100	78.6	78.6
DCBP	100	74.7	74.7

Comments:
BQL = Below Quantitation Limit
NA = Not applicable, surrogate diluted out.

Reviewed By: _____

8082.xls

Results for PCBs
by EPA 8082

Client Sample ID: MW3s-081109
Client Project ID: C&D Landfill, Inc.
Lab Sample ID: G1081-2-9O
Lab Project ID: G1081-2
Initial Wt/Vol: 950 ML
Final Volume: 5 mL
ColumnID: STX-CLPest

Analyzed By: BWS
Date Collected: 8/11/2009 12:13
Date Received: 8/12/2009
Date Extracted: 8/12/2009
Matrix: Water

Compound	Result ug/L	Quantitation Limit ug/L	MDL	Dilution Factor	Date Analyzed	Flags
Aroclor-1016	BQL	0.526	0.0663	1	08/17/09	
Aroclor-1221	BQL	0.526	0.169	1	08/17/09	
Aroclor-1232	BQL	0.526	0.119	1	08/17/09	
Aroclor-1242	BQL	0.526	0.0537	1	08/17/09	
Aroclor-1248	BQL	0.526	0.0958	1	08/17/09	
Aroclor-1254	BQL	0.526	0.155	1	08/17/09	
Aroclor-1260	BQL	0.526	0.0832	1	08/17/09	

Surrogate Spike Recoveries	Spike Added (ug/L)	Spike Result (ug/L)	Percent Recovered (%)	
TCMX	100	54.8	54.8	
DCBP	100	21.6	21.6	#

= Surrogate recovery is outside limits. (40-120%)

Comments:
BQL = Below Quantitation Limit
NA = Not applicable, surrogate diluted out.

Reviewed By: _____

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Results for PCBs
by EPA 8082

Client Sample ID: MW3A-081109
Client Project ID: C&D Landfill, Inc.
Lab Sample ID: G1081-2-10O
Lab Project ID: G1081-2
Initial Wt/Vol: 970 ML
Final Volume: 5 mL
ColumnID: STX-CLPest

Analyzed By: BWS
Date Collected: 8/11/2009 13:38
Date Received: 8/12/2009
Date Extracted: 8/12/2009
Matrix: Water

Compound	Result ug/L	Quantitation Limit ug/L	MDL	Dilution Factor	Date Analyzed	Flags
Aroclor-1016	BQL	0.515	0.0649	1	08/17/09	
Aroclor-1221	BQL	0.515	0.166	1	08/17/09	
Aroclor-1232	BQL	0.515	0.116	1	08/17/09	
Aroclor-1242	BQL	0.515	0.0526	1	08/17/09	
Aroclor-1248	BQL	0.515	0.0938	1	08/17/09	
Aroclor-1254	BQL	0.515	0.152	1	08/17/09	
Aroclor-1260	BQL	0.515	0.0814	1	08/17/09	

Surrogate Spike Recoveries	Spike Added (ug/L)	Spike Result (ug/L)	Percent Recovered (%)	
TCMX	100	53.6	53.6	
DCBP	100	30.9	30.9	#

= Surrogate recovery is outside limits. (40-120%)

Comments:
BQL = Below Quantitation Limit
NA = Not applicable, surrogate diluted out.

Reviewed By: _____

8082.xls

Results for Herbicides
by EPA 8151

Client Sample ID:	MW10-081009	Analyzed By:	EAW
Client Project ID:	C&D Landfill, Inc.	Date Collected:	8/10/2009 11:57
Lab Sample ID:	G1081-2-5T	Date Received:	8/12/2009
Lab Project ID:	G1081-2	Date Extracted:	8/17/2009
Sample Wt/Vol:	816 ML	Matrix:	Water

Compound	Result ug/L	Quantitation Limit ug/L	Dilution Factor	Date Analyzed
2,4-D	BQL	0.613	1	8/24/2009
2,4,5-TP(Silvex)	BQL	0.613	1	8/24/2009
2,4,5-T	BQL	0.613	1	8/24/2009

Surrogate Spike Recoveries	Spike Added	Spike Result	Percent Recovered	Limits
DCAA	2.0	1.3	65	35-135

Comments:
BQL = Below Quantitation Limit
Column IDs: RTX_CLPesticides / RTX_CLPesticides2

Reviewed By: _____

Results for Herbicides
by EPA 8151

Client Sample ID: MW11-081009
Client Project ID: C&D Landfill, Inc.
Lab Sample ID: G1081-2-6T
Lab Project ID: G1081-2
Sample Wt/Vol: 835 ML

Analyzed By: EAW
Date Collected: 8/10/2009 13:53
Date Received: 8/12/2009
Date Extracted: 8/17/2009
Matrix: Water

Compound	Result ug/L	Quantitation Limit ug/L	Dilution Factor	Date Analyzed
2,4-D	BQL	0.599	1	8/24/2009
2,4,5-TP(Silvex)	BQL	0.599	1	8/24/2009
2,4,5-T	BQL	0.599	1	8/24/2009

Surrogate Spike Recoveries	Spike Added	Spike Result	Percent Recovered	Limits
DCAA	2.0	1.22	61	35-135

Comments:
BQL = Below Quantitation Limit
Column IDs: RTX_CLPesticides / RTX_CLPesticides2

Reviewed By: _____

Results for Herbicides
by EPA 8151

Client Sample ID: MW8-081009
Client Project ID: C&D Landfill, Inc.
Lab Sample ID: G1081-2-7T
Lab Project ID: G1081-2
Sample Wt/Vol: 801 ML

Analyzed By: EAW
Date Collected: 8/10/2009 15:25
Date Received: 8/12/2009
Date Extracted: 8/17/2009
Matrix: Water

Compound	Result ug/L	Quantitation Limit ug/L	Dilution Factor	Date Analyzed
2,4-D	BQL	0.624	1	8/24/2009
2,4,5-TP(Silvex)	BQL	0.624	1	8/24/2009
2,4,5-T	BQL	0.624	1	8/24/2009

Surrogate Spike Recoveries	Spike Added	Spike Result	Percent Recovered	Limits
DCAA	2.0	1.4	70	35-135

Comments:
BQL = Below Quantitation Limit
Column IDs: RTX_CLPesticides / RTX_CLPesticides2

Reviewed By: _____

Results for Herbicides
by EPA 8151

Client Sample ID: MW12s-081109
Client Project ID: C&D Landfill, Inc.
Lab Sample ID: G1081-2-8T
Lab Project ID: G1081-2
Sample Wt/Vol: 784 ML

Analyzed By: EAW
Date Collected: 8/11/2009 9:13
Date Received: 8/12/2009
Date Extracted: 8/17/2009
Matrix: Water

Compound	Result ug/L	Quantitation Limit ug/L	Dilution Factor	Date Analyzed
2,4-D	BQL	0.638	1	8/24/2009
2,4,5-TP(Silvex)	BQL	0.638	1	8/24/2009
2,4,5-T	BQL	0.638	1	8/24/2009

Surrogate Spike Recoveries	Spike Added	Spike Result	Percent Recovered	Limits
DCAA	2.0	1.32	66	35-135

Comments:
BQL = Below Quantitation Limit
Column IDs: RTX_CLPesticides / RTX_CLPesticides2

Reviewed By: _____

Results for Herbicides
by EPA 8151

Client Sample ID: MW3s-081109
Client Project ID: C&D Landfill, Inc.
Lab Sample ID: G1081-2-9T
Lab Project ID: G1081-2
Sample Wt/Vol: 814 ML

Analyzed By: EAW
Date Collected: 8/11/2009 12:13
Date Received: 8/12/2009
Date Extracted: 8/17/2009
Matrix: Water

Compound	Result ug/L	Quantitation Limit ug/L	Dilution Factor	Date Analyzed
2,4-D	BQL	0.614	1	8/24/2009
2,4,5-TP(Silvex)	BQL	0.614	1	8/24/2009
2,4,5-T	BQL	0.614	1	8/24/2009

Surrogate Spike Recoveries	Spike Added	Spike Result	Percent Recovered	Limits
DCAA	2.0	1.47	73	35-135

Comments:
BQL = Below Quantitation Limit
Column IDs: RTX_CLPesticides / RTX_CLPesticides2

Reviewed By: _____

Results for Herbicides
by EPA 8151

Client Sample ID: MW3A-081109
Client Project ID: C&D Landfill, Inc.
Lab Sample ID: G1081-2-10T
Lab Project ID: G1081-2
Sample Wt/Vol: 793 ML

Analyzed By: EAW
Date Collected: 8/11/2009 13:38
Date Received: 8/12/2009
Date Extracted: 8/17/2009
Matrix: Water

Compound	Result ug/L	Quantitation Limit ug/L	Dilution Factor	Date Analyzed
2,4-D	BQL	0.630	1	8/24/2009
2,4,5-TP(Silvex)	BQL	0.630	1	8/24/2009
2,4,5-T	BQL	0.630	1	8/24/2009

Surrogate Spike Recoveries	Spike Added	Spike Result	Percent Recovered	Limits
DCAA	2.0	1.09	54	35-135

Comments:
BQL = Below Quantitation Limit
Column IDs: RTX_CLPesticides / RTX_CLPesticides2

Reviewed By: _____

Results for Pesticides
by EPA 8081 Appendix II

Client Sample ID: MW10-081009
Client Project ID: C&D Landfill, Inc.
Lab Sample ID: G1081-2-5S
Lab Project ID: G1081-2
Sample Wt/Vol: 903 ML ColumnID: STX_CLPest Matrix: Water

Analyzed By: DCS
Date Collected: 8/10/2009 11:57
Date Received: 8/12/2009
Date Extracted: 8/14/2009

Compound	Result ug/L	SWSL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flags
alpha-BHC	BQL	0.0500	0.0108	1.0	8/17/2009	
beta-BHC	BQL	0.0500	0.0170	1.0	8/17/2009	
delta-BHC	BQL	0.0500	0.0089	1.0	8/17/2009	
gamma-BHC (Lindane)	BQL	0.0500	0.0196	1.0	8/17/2009	
Heptachlor	BQL	0.0500	0.0196	1.0	8/17/2009	
Aldrin	BQL	0.0500	0.0110	1.0	8/17/2009	
Heptachlor epoxide	BQL	0.0750	0.0138	1.0	8/17/2009	
Endosulfan I	BQL	0.100	0.0100	1.0	8/17/2009	
Dieldrin	BQL	0.0750	0.0114	1.0	8/17/2009	
4,4'-DDE	BQL	0.100	0.0503	1.0	8/17/2009	
Endrin	BQL	0.100	0.0318	1.0	8/17/2009	
DDD	BQL	0.100	0.0166	1.0	8/17/2009	
Endosulfan II	BQL	0.100	0.0231	1.0	8/17/2009	
4,4'-DDT	BQL	0.100	0.0203	1.0	8/17/2009	
Methoxychlor	BQL	1.00	0.0435	1.0	8/17/2009	
Toxaphene	BQL	1.50	0.295	1.0	8/17/2009	
Chlordane, Total	BQL	0.500	0.0389	1.0	8/17/2009	
Endrin aldehyde	BQL	0.100	0.0493	1.0	8/17/2009	
Endosulfan sulfate	BQL	0.100	0.0180	1.0	8/17/2009	

	Spike Added	Spike Result	Percent Recovered
TCMX	100	74.7	74.7
DBC	100	74.5	74.5

Comments:
BQL = Below Quantitation Limit

Reviewed By: _____

Results for Pesticides
by EPA 8081 Appendix II

Client Sample ID: MW11-081009
Client Project ID: C&D Landfill, Inc.
Lab Sample ID: G1081-2-6S
Lab Project ID: G1081-2
Sample Wt/Vol: 888 ML ColumnID: STX_CLPest Matrix: Water

Analyzed By: DCS
Date Collected: 8/10/2009 13:53
Date Received: 8/12/2009
Date Extracted: 8/14/2009

Compound	Result ug/L	SWSL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flags
alpha-BHC	BQL	0.0500	0.0110	1.0	8/17/2009	
beta-BHC	BQL	0.0500	0.0173	1.0	8/17/2009	
delta-BHC	BQL	0.0500	0.0091	1.0	8/17/2009	
gamma-BHC (Lindane)	BQL	0.0500	0.0199	1.0	8/17/2009	
Heptachlor	BQL	0.0500	0.0200	1.0	8/17/2009	
Aldrin	BQL	0.0500	0.0111	1.0	8/17/2009	
Heptachlor epoxide	BQL	0.0750	0.0141	1.0	8/17/2009	
Endosulfan I	BQL	0.100	0.0101	1.0	8/17/2009	
Dieldrin	BQL	0.0750	0.0116	1.0	8/17/2009	
4,4'-DDE	BQL	0.100	0.0511	1.0	8/17/2009	
Endrin	BQL	0.100	0.0323	1.0	8/17/2009	
DDD	BQL	0.100	0.0169	1.0	8/17/2009	
Endosulfan II	BQL	0.100	0.0235	1.0	8/17/2009	
4,4'-DDT	BQL	0.100	0.0207	1.0	8/17/2009	
Methoxychlor	BQL	1.00	0.0442	1.0	8/17/2009	
Toxaphene	BQL	1.50	0.300	1.0	8/17/2009	
Chlordane, Total	BQL	0.500	0.0395	1.0	8/17/2009	
Endrin aldehyde	BQL	0.100	0.0501	1.0	8/17/2009	
Endosulfan sulfate	BQL	0.100	0.0183	1.0	8/17/2009	

	Spike Added	Spike Result	Percent Recovered
TCMX	100	77.0	77.0
DBC	100	73.0	73.0

Comments:
BQL = Below Quantitation Limit

Reviewed By: _____

Results for Pesticides
by EPA 8081 Appendix II

Client Sample ID:	MW8-081009	Analyzed By:	DCS
Client Project ID:	C&D Landfill, Inc.	Date Collected:	8/10/2009 15:25
Lab Sample ID:	G1081-2-7S	Date Received:	8/12/2009
Lab Project ID:	G1081-2	Date Extracted:	8/14/2009
Sample Wt/Vol:	913 ML	ColumnID: STX_CLPest	Matrix: Water

Compound	Result ug/L	SWSL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flags
alpha-BHC	**0.0246**	0.0500	0.0107	1.0	8/17/2009	J
beta-BHC	**0.0221**	0.0500	0.0169	1.0	8/17/2009	JD
delta-BHC	BQL	0.0500	0.0088	1.0	8/17/2009	
gamma-BHC (Lindane)	BQL	0.0500	0.0194	1.0	8/17/2009	
Heptachlor	BQL	0.0500	0.0194	1.0	8/17/2009	
Aldrin	BQL	0.0500	0.0108	1.0	8/17/2009	
Heptachlor epoxide	BQL	0.0750	0.0137	1.0	8/17/2009	
Endosulfan I	**0.0426**	0.100	0.0099	1.0	8/17/2009	J
Dieldrin	BQL	0.0750	0.0113	1.0	8/17/2009	
4,4'-DDE	BQL	0.100	0.0497	1.0	8/17/2009	
Endrin	BQL	0.100	0.0314	1.0	8/17/2009	
DDD	BQL	0.100	0.0164	1.0	8/17/2009	
Endosulfan II	BQL	0.100	0.0229	1.0	8/17/2009	
4,4'-DDT	**0.0343**	0.100	0.0201	1.0	8/17/2009	JD
Methoxychlor	**0.0779**	1.00	0.0430	1.0	8/17/2009	JD
Toxaphene	BQL	1.50	0.292	1.0	8/17/2009	
Chlordane, Total	BQL	0.500	0.0384	1.0	8/17/2009	
Endrin aldehyde	BQL	0.100	0.0487	1.0	8/17/2009	
Endosulfan sulfate	BQL	0.100	0.0178	1.0	8/17/2009	

	Spike Added	Spike Result	Percent Recovered
TCMX	100	53.9	53.9
DBC	100	63.0	63.0

Comments:
BQL = Below Quantitation Limit

Reviewed By: _____

Results for Pesticides
by EPA 8081 Appendix II

Client Sample ID: MW12s-081109
Client Project ID: C&D Landfill, Inc.
Lab Sample ID: G1081-2-8S
Lab Project ID: G1081-2
Sample Wt/Vol: 932 ML ColumnID: STX_CLPest Matrix: Water

Analyzed By: DCS
Date Collected: 8/11/2009 09:13
Date Received: 8/12/2009
Date Extracted: 8/14/2009

Compound	Result ug/L	SWSL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flags
alpha-BHC	BQL	0.0500	0.0105	1.0	8/17/2009	
beta-BHC	BQL	0.0500	0.0165	1.0	8/17/2009	
delta-BHC	BQL	0.0500	0.0086	1.0	8/17/2009	
gamma-BHC (Lindane)	BQL	0.0500	0.0190	1.0	8/17/2009	
Heptachlor	BQL	0.0500	0.0190	1.0	8/17/2009	
Aldrin	BQL	0.0500	0.0106	1.0	8/17/2009	
Heptachlor epoxide	BQL	0.0750	0.0134	1.0	8/17/2009	
Endosulfan I	BQL	0.100	0.0097	1.0	8/17/2009	
Dieldrin	BQL	0.0750	0.0110	1.0	8/17/2009	
4,4'-DDE	BQL	0.100	0.0487	1.0	8/17/2009	
Endrin	BQL	0.100	0.0308	1.0	8/17/2009	
DDD	BQL	0.100	0.0161	1.0	8/17/2009	
Endosulfan II	BQL	0.100	0.0224	1.0	8/17/2009	
4,4'-DDT	BQL	0.100	0.0197	1.0	8/17/2009	
Methoxychlor	BQL	1.00	0.0421	1.0	8/17/2009	
Toxaphene	BQL	1.50	0.286	1.0	8/17/2009	
Chlordane, Total	BQL	0.500	0.0377	1.0	8/17/2009	
Endrin aldehyde	BQL	0.100	0.0477	1.0	8/17/2009	
Endosulfan sulfate	BQL	0.100	0.0174	1.0	8/17/2009	

	Spike Added	Spike Result	Percent Recovered
TCMX	100	71.0	71.0
DBC	100	77.5	77.5

Comments:
BQL = Below Quantitation Limit

Reviewed By: _____

Results for Pesticides
by EPA 8081 Appendix II

Client Sample ID: MW3s-081109
Client Project ID: C&D Landfill, Inc.
Lab Sample ID: G1081-2-9S
Lab Project ID: G1081-2
Sample Wt/Vol: 933 ML ColumnID: STX_CLPest Matrix: Water

Analyzed By: EAW
Date Collected: 8/11/2009 12:13
Date Received: 8/12/2009
Date Extracted: 8/14/2009

Compound	Result ug/L	SWSL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flags
alpha-BHC	**0.0522**	0.0500	0.0105	1.0	8/21/2009	
beta-BHC	BQL	0.0500	0.0165	1.0	8/21/2009	
delta-BHC	BQL	0.0500	0.0086	1.0	8/21/2009	
gamma-BHC (Lindane)	**0.0318**	0.0500	0.0190	1.0	8/21/2009	JD
Heptachlor	BQL	0.0500	0.0190	1.0	8/21/2009	
Aldrin	BQL	0.0500	0.0106	1.0	8/21/2009	
Heptachlor epoxide	BQL	0.0750	0.0134	1.0	8/21/2009	
Endosulfan I	BQL	0.100	0.0097	1.0	8/21/2009	
Dieldrin	BQL	0.0750	0.0110	1.0	8/21/2009	
4,4'-DDE	BQL	0.100	0.0487	1.0	8/21/2009	
Endrin	**0.0478**	0.100	0.0308	1.0	8/21/2009	JD
DDD	BQL	0.100	0.0161	1.0	8/21/2009	
Endosulfan II	BQL	0.100	0.0224	1.0	8/21/2009	
4,4'-DDT	BQL	0.100	0.0197	1.0	8/21/2009	
Methoxychlor	BQL	1.00	0.0421	1.0	8/21/2009	
Toxaphene	BQL	1.50	0.286	1.0	8/21/2009	
Chlordane, Total	BQL	0.500	0.0376	1.0	8/21/2009	
Endrin aldehyde	BQL	0.100	0.0477	1.0	8/21/2009	
Endosulfan sulfate	BQL	0.100	0.0174	1.0	8/21/2009	

	Spike Added	Spike Result	Percent Recovered
TCMX	100	54.2	54.2
DBC	100	50.7	50.7

Comments:
BQL = Below Quantitation Limit

Reviewed By: _____

Results for Pesticides
by EPA 8081 Appendix II

Client Sample ID: MW3A-081109
Client Project ID: C&D Landfill, Inc.
Lab Sample ID: G1081-2-10S
Lab Project ID: G1081-2
Sample Wt/Vol: 938 ML ColumnID: STX_CLPest Matrix: Water

Analyzed By: EAW
Date Collected: 8/11/2009 13:38
Date Received: 8/12/2009
Date Extracted: 8/14/2009

Compound	Result ug/L	SWSL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flags
alpha-BHC	**0.0229**	0.0500	0.0104	1.0	8/21/2009	JD
beta-BHC	BQL	0.0500	0.0164	1.0	8/21/2009	
delta-BHC	BQL	0.0500	0.0086	1.0	8/21/2009	
gamma-BHC (Lindane)	BQL	0.0500	0.0189	1.0	8/21/2009	
Heptachlor	BQL	0.0500	0.0189	1.0	8/21/2009	
Aldrin	BQL	0.0500	0.0106	1.0	8/21/2009	
Heptachlor epoxide	BQL	0.0750	0.0133	1.0	8/21/2009	
Endosulfan I	BQL	0.100	0.0096	1.0	8/21/2009	
Dieldrin	BQL	0.0750	0.0110	1.0	8/21/2009	
4,4'-DDE	BQL	0.100	0.0484	1.0	8/21/2009	
Endrin	BQL	0.100	0.0306	1.0	8/21/2009	
DDD	BQL	0.100	0.0160	1.0	8/21/2009	
Endosulfan II	BQL	0.100	0.0223	1.0	8/21/2009	
4,4'-DDT	BQL	0.100	0.0196	1.0	8/21/2009	
Methoxychlor	BQL	1.00	0.0418	1.0	8/21/2009	
Toxaphene	BQL	1.50	0.284	1.0	8/21/2009	
Chlordane, Total	BQL	0.500	0.0374	1.0	8/21/2009	
Endrin aldehyde	BQL	0.100	0.0474	1.0	8/21/2009	
Endosulfan sulfate	BQL	0.100	0.0173	1.0	8/21/2009	

	Spike Added	Spike Result	Percent Recovered
TCMX	100	56.4	56.4
DBC	100	58.1	58.1

Comments:
BQL = Below Quantitation Limit

Reviewed By: _____

Results for Metals

Client Sample ID:	MW14s-081009	Analyzed By:	PSW
Client Project ID:	C&D Landfill, Inc.	Date Collected:	8/10/2009 09:00
Lab Sample ID:	G1081-2-1	Date Received:	8/12/2009
Lab Project ID:	G1081-2	Matrix:	WATER
ICP InitWt/Vol:	50 mL Final Vol: 50 mL		
Hg InitWt/Vol:	Final Vol:		
Prep Batch:	14893		

Metals	Result	SWSL	MDL	DF	Units	Method	Date Analyzed	Flags
Antimony	BQL	0.00600	0.00295	1	MG/L	6010B	8/19/2009	
Arsenic	BQL	0.0100	0.00491	1	MG/L	6010B	8/17/2009	
Barium	**0.111**	0.100	0.00206	1	MG/L	6010B	8/17/2009	B
Beryllium	BQL	0.00100	0.000442	10	MG/L	6020	8/25/2009	
Cadmium	**0.000230**	0.00100	0.000158	10	MG/L	6020	8/25/2009	J
Chromium	**0.00283**	0.0100	0.00146	1	MG/L	6010B	8/17/2009	JB
Cobalt	BQL	0.0100	0.00172	1	MG/L	6010B	8/17/2009	
Copper	**0.00134**	0.0100	0.00129	1	MG/L	6010B	8/17/2009	J
Lead	BQL	0.0100	0.00679	1	MG/L	6010B	8/17/2009	
Nickel	BQL	0.0500	0.00236	1	MG/L	6010B	8/17/2009	
Selenium	BQL	0.0100	0.00278	1	MG/L	6010B	8/17/2009	
Silver	**0.00719**	0.0100	0.000656	1	MG/L	6010B	8/17/2009	JB
Thallium	BQL	0.00550	0.000198	10	MG/L	6020	8/25/2009	
Vanadium	BQL	0.00250	0.000586	10	MG/L	6020	8/25/2009	
Zinc	**0.00148**	0.0100	0.00129	1	MG/L	6010B	8/17/2009	JB

Comments

BQL = Below Quantitation Limits
DF = Dilution Factor
J = Between MDL and RL
B= Amount in Prep Blank > MDL

Reviewed By: _____

METALS.XLS

Results for Metals

Client Sample ID:	MW14d-081009	Analyzed By:	PSW
Client Project ID:	C&D Landfill, Inc.	Date Collected:	8/10/2009 10:05
Lab Sample ID:	G1081-2-2	Date Received:	8/12/2009
Lab Project ID:	G1081-2	Matrix:	WATER
ICP InitWt/Vol:	50 mL Final Vol: 50 mL		
Hg InitWt/Vol:	Final Vol:		
Prep Batch:	14893		

Metals	Result	SWSL	MDL	DF	Units	Method	Date Analyzed	Flags
Antimony	BQL	0.00600	0.00295	1	MG/L	6010B	8/19/2009	
Arsenic	BQL	0.0100	0.00491	1	MG/L	6010B	8/17/2009	
Barium	**0.0139**	0.100	0.00206	1	MG/L	6010B	8/17/2009	JB
Beryllium	BQL	0.00100	0.000442	10	MG/L	6020	8/25/2009	
Cadmium	**0.000400**	0.00100	0.000158	10	MG/L	6020	8/25/2009	J
Chromium	**0.00424**	0.0100	0.00146	1	MG/L	6010B	8/17/2009	JB
Cobalt	BQL	0.0100	0.00172	1	MG/L	6010B	8/17/2009	
Copper	BQL	0.0100	0.00129	1	MG/L	6010B	8/17/2009	
Lead	BQL	0.0100	0.00679	1	MG/L	6010B	8/17/2009	
Nickel	BQL	0.0500	0.00236	1	MG/L	6010B	8/17/2009	
Selenium	BQL	0.0100	0.00278	1	MG/L	6010B	8/17/2009	
Silver	**0.00677**	0.0100	0.000656	1	MG/L	6010B	8/17/2009	JB
Thallium	BQL	0.00550	0.000198	10	MG/L	6020	8/25/2009	
Vanadium	BQL	0.00250	0.000586	10	MG/L	6020	8/25/2009	
Zinc	BQL	0.0100	0.00129	1	MG/L	6010B	8/17/2009	B

Comments

BQL = Below Quantitation Limits
DF = Dilution Factor
J = Between MDL and RL
B= Amount in Prep Blank > MDL

Reviewed By: _____

METALS.XLS

Results for Metals

Client Sample ID:	MW13-081109	Analyzed By:	PSW
Client Project ID:	C&D Landfill, Inc.	Date Collected:	8/11/2009 10:28
Lab Sample ID:	G1081-2-3	Date Received:	8/12/2009
Lab Project ID:	G1081-2	Matrix:	WATER
ICP InitWt/Vol:	50 mL Final Vol: 50 mL		
Hg InitWt/Vol:	Final Vol:		
Prep Batch:	14893		

Metals	Result	SWSL	MDL	DF	Units	Method	Date Analyzed	Flags
Antimony	BQL	0.00600	0.00295	1	MG/L	6010B	8/19/2009	
Arsenic	BQL	0.0100	0.00491	1	MG/L	6010B	8/17/2009	
Barium	**0.0441**	0.100	0.00206	1	MG/L	6010B	8/17/2009	JB
Beryllium	BQL	0.00100	0.000442	10	MG/L	6020	8/25/2009	
Cadmium	**0.000160**	0.00100	0.000158	10	MG/L	6020	8/25/2009	J
Chromium	**0.00177**	0.0100	0.00146	1	MG/L	6010B	8/17/2009	JB
Cobalt	BQL	0.0100	0.00172	1	MG/L	6010B	8/17/2009	
Copper	**0.00133**	0.0100	0.00129	1	MG/L	6010B	8/17/2009	J
Lead	BQL	0.0100	0.00679	1	MG/L	6010B	8/17/2009	
Nickel	**0.00244**	0.0500	0.00236	1	MG/L	6010B	8/17/2009	J
Selenium	BQL	0.0100	0.00278	1	MG/L	6010B	8/17/2009	
Silver	**0.00691**	0.0100	0.000656	1	MG/L	6010B	8/17/2009	JB
Thallium	BQL	0.00550	0.000198	10	MG/L	6020	8/25/2009	
Vanadium	BQL	0.00250	0.000586	10	MG/L	6020	8/25/2009	
Zinc	**0.00463**	0.0100	0.00129	1	MG/L	6010B	8/17/2009	JB

Comments

BQL = Below Quantitation Limits
DF = Dilution Factor
J = Between MDL and RL
B= Amount in Prep Blank > MDL

Reviewed By: _____

METALS.XLS

Results for Metals

Client Sample ID:	MW9A-081109	Analyzed By:	PSW
Client Project ID:	C&D Landfill, Inc.	Date Collected:	8/11/2009 11:25
Lab Sample ID:	G1081-2-4	Date Received:	8/12/2009
Lab Project ID:	G1081-2	Matrix:	WATER
ICP InitWt/Vol:	50 mL Final Vol: 50 mL		
Hg InitWt/Vol:	Final Vol:		
Prep Batch:	14893		

Metals	Result	SWSL	MDL	DF	Units	Method	Date Analyzed	Flags
Antimony	BQL	0.00600	0.00295	1	MG/L	6010B	8/19/2009	
Arsenic	BQL	0.0100	0.00491	1	MG/L	6010B	8/17/2009	
Barium	**0.112**	0.100	0.00206	1	MG/L	6010B	8/17/2009	B
Beryllium	BQL	0.00100	0.000442	10	MG/L	6020	8/25/2009	
Cadmium	**0.000160**	0.00100	0.000158	10	MG/L	6020	8/25/2009	J
Chromium	**0.00300**	0.0100	0.00146	1	MG/L	6010B	8/17/2009	JB
Cobalt	BQL	0.0100	0.00172	1	MG/L	6010B	8/17/2009	
Copper	**0.00213**	0.0100	0.00129	1	MG/L	6010B	8/17/2009	J
Lead	BQL	0.0100	0.00679	1	MG/L	6010B	8/17/2009	
Nickel	BQL	0.0500	0.00236	1	MG/L	6010B	8/17/2009	
Selenium	**0.00661**	0.0100	0.00278	1	MG/L	6010B	8/17/2009	J
Silver	**0.00715**	0.0100	0.000656	1	MG/L	6010B	8/17/2009	JB
Thallium	BQL	0.00550	0.000198	10	MG/L	6020	8/25/2009	
Vanadium	BQL	0.00250	0.000586	10	MG/L	6020	8/25/2009	
Zinc	**0.00166**	0.0100	0.00129	1	MG/L	6010B	8/17/2009	JB

Comments

BQL = Below Quantitation Limits
DF = Dilution Factor
J = Between MDL and RL
B= Amount in Prep Blank > MDL

Reviewed By: _____

METALS.XLS

Results for Metals

Client Sample ID:	MW10-081009	Analyzed By:	PSW
Client Project ID:	C&D Landfill, Inc.	Date Collected:	8/10/2009 11:57
Lab Sample ID:	G1081-2-5	Date Received:	8/12/2009
Lab Project ID:	G1081-2	Matrix:	WATER
ICP InitWt/Vol:	50 mL Final Vol: 50 mL		
Hg InitWt/Vol:	40 mL Final Vol: 57 mL		
Prep Batch:	14889 14893		

Metals	Result	SWSL	MDL	DF	Units	Method	Date Analyzed	Flags
Antimony	BQL	0.00600	0.00295	1	MG/L	6010B	8/19/2009	
Arsenic	BQL	0.0100	0.00491	1	MG/L	6010B	8/17/2009	
Barium	**0.0761**	0.100	0.00206	1	MG/L	6010B	8/17/2009	JB
Beryllium	BQL	0.00100	0.000442	10	MG/L	6020	8/25/2009	
Cadmium	**0.000170**	0.00100	0.000158	10	MG/L	6020	8/25/2009	J
Chromium	**0.00300**	0.0100	0.00146	1	MG/L	6010B	8/17/2009	JB
Cobalt	BQL	0.0100	0.00172	1	MG/L	6010B	8/17/2009	
Copper	**0.00234**	0.0100	0.00129	1	MG/L	6010B	8/17/2009	J
Lead	BQL	0.0100	0.00679	1	MG/L	6010B	8/17/2009	
Mercury	BQL	0.000285	0.000024	1	MG/L	7470	8/13/2009	
Nickel	BQL	0.0500	0.00236	1	MG/L	6010B	8/17/2009	
Selenium	BQL	0.0100	0.00278	1	MG/L	6010B	8/17/2009	
Silver	**0.00695**	0.0100	0.000656	1	MG/L	6010B	8/17/2009	JB
Thallium	BQL	0.00100	0.000198	10	MG/L	6020	8/25/2009	
Tin	**0.00536**	0.100	0.00180	1	MG/L	6010B	8/26/2009	JB
Vanadium	BQL	0.00100	0.000586	10	MG/L	6020	8/25/2009	
Zinc	BQL	0.0100	0.00129	1	MG/L	6010B	8/17/2009	B

Comments

BQL = Below Quantitation Limits
DF = Dilution Factor
J = Between MDL and RL
B= Amount in Prep Blank > MDL

Reviewed By: _____
METALS.XLS

Results for Metals

Client Sample ID:	MW11-081009	Analyzed By:	PSW
Client Project ID:	C&D Landfill, Inc.	Date Collected:	8/10/2009 13:53
Lab Sample ID:	G1081-2-6	Date Received:	8/12/2009
Lab Project ID:	G1081-2	Matrix:	WATER
ICP InitWt/Vol:	50 mL Final Vol: 50 mL		
Hg InitWt/Vol:	40 mL Final Vol: 57 mL		
Prep Batch:	14889 14893		

Metals	Result	SWSL	MDL	DF	Units	Method	Date Analyzed	Flags
Antimony	BQL	0.00600	0.00295	1	MG/L	6010B	8/19/2009	
Arsenic	BQL	0.0100	0.00491	1	MG/L	6010B	8/17/2009	
Barium	**0.0398**	0.100	0.00206	1	MG/L	6010B	8/17/2009	JB
Beryllium	BQL	0.00100	0.000442	10	MG/L	6020	8/25/2009	
Cadmium	**0.000300**	0.00100	0.000158	10	MG/L	6020	8/25/2009	J
Chromium	**0.00309**	0.0100	0.00146	1	MG/L	6010B	8/17/2009	JB
Cobalt	BQL	0.0100	0.00172	1	MG/L	6010B	8/17/2009	
Copper	**0.00244**	0.0100	0.00129	1	MG/L	6010B	8/17/2009	J
Lead	BQL	0.0100	0.00679	1	MG/L	6010B	8/17/2009	
Mercury	BQL	0.000285	0.000024	1	MG/L	7470	8/13/2009	
Nickel	**0.00275**	0.0500	0.00236	1	MG/L	6010B	8/17/2009	J
Selenium	**0.00422**	0.0100	0.00278	1	MG/L	6010B	8/17/2009	J
Silver	**0.00692**	0.0100	0.000656	1	MG/L	6010B	8/17/2009	JB
Thallium	BQL	0.00100	0.000198	10	MG/L	6020	8/25/2009	
Tin	**0.00602**	0.100	0.00180	1	MG/L	6010B	8/26/2009	JB
Vanadium	BQL	0.00100	0.000586	10	MG/L	6020	8/25/2009	
Zinc	BQL	0.0100	0.00129	1	MG/L	6010B	8/17/2009	B

Comments

BQL = Below Quantitation Limits
DF = Dilution Factor
J = Between MDL and RL
B= Amount in Prep Blank > MDL

Reviewed By: _____

METALS.XLS

Results for Metals

Client Sample ID:	MW8-081009	Analyzed By:	PSW
Client Project ID:	C&D Landfill, Inc.	Date Collected:	8/10/2009 15:25
Lab Sample ID:	G1081-2-7	Date Received:	8/12/2009
Lab Project ID:	G1081-2	Matrix:	WATER
ICP InitWt/Vol:	50 mL Final Vol: 50 mL		
Hg InitWt/Vol:	40 mL Final Vol: 57 mL		
Prep Batch:	14889 14893		

Metals	Result	SWSL	MDL	DF	Units	Method	Date Analyzed	Flags
Antimony	BQL	0.00600	0.00295	1	MG/L	6010B	8/19/2009	
Arsenic	BQL	0.0100	0.00491	1	MG/L	6010B	8/17/2009	
Barium	**0.127**	0.100	0.00206	1	MG/L	6010B	8/17/2009	B
Beryllium	BQL	0.00100	0.000442	10	MG/L	6020	8/25/2009	
Cadmium	**0.000300**	0.00100	0.000158	10	MG/L	6020	8/25/2009	J
Chromium	**0.00476**	0.0100	0.00146	1	MG/L	6010B	8/17/2009	JB
Cobalt	**0.0123**	0.0100	0.00172	1	MG/L	6010B	8/17/2009	
Copper	**0.00231**	0.0100	0.00129	1	MG/L	6010B	8/17/2009	J
Lead	BQL	0.0100	0.00679	1	MG/L	6010B	8/17/2009	
Mercury	BQL	0.000285	0.000024	1	MG/L	7470	8/13/2009	
Nickel	**0.00391**	0.0500	0.00236	1	MG/L	6010B	8/17/2009	J
Selenium	**0.00459**	0.0100	0.00278	1	MG/L	6010B	8/17/2009	J
Silver	**0.00777**	0.0100	0.000656	1	MG/L	6010B	8/17/2009	JB
Thallium	BQL	0.00100	0.000198	10	MG/L	6020	8/25/2009	
Tin	**0.00512**	0.100	0.00180	1	MG/L	6010B	8/26/2009	JB
Vanadium	BQL	0.00100	0.000586	10	MG/L	6020	8/25/2009	
Zinc	BQL	0.0100	0.00129	1	MG/L	6010B	8/17/2009	B

Comments

BQL = Below Quantitation Limits
DF = Dilution Factor
J = Between MDL and RL
B= Amount in Prep Blank > MDL

Reviewed By: CA

METALS.XLS

Results for Metals

Client Sample ID:	MW12s-081109	Analyzed By:	PSW
Client Project ID:	C&D Landfill, Inc.	Date Collected:	8/11/2009 09:13
Lab Sample ID:	G1081-2-8	Date Received:	8/12/2009
Lab Project ID:	G1081-2	Matrix:	WATER
ICP InitWt/Vol:	50 mL Final Vol: 50 mL		
Hg InitWt/Vol:	40 mL Final Vol: 57 mL		
Prep Batch:	14889 14893		

Metals	Result	SWSL	MDL	DF	Units	Method	Date Analyzed	Flags
Antimony	BQL	0.00600	0.00295	1	MG/L	6010B	8/19/2009	
Arsenic	BQL	0.0100	0.00491	1	MG/L	6010B	8/17/2009	
Barium	**0.0566**	0.100	0.00206	1	MG/L	6010B	8/17/2009	JB
Beryllium	BQL	0.00100	0.000442	10	MG/L	6020	8/25/2009	
Cadmium	BQL	0.00100	0.000158	10	MG/L	6020	8/25/2009	
Chromium	**0.00248**	0.0100	0.00146	1	MG/L	6010B	8/17/2009	JB
Cobalt	BQL	0.0100	0.00172	1	MG/L	6010B	8/17/2009	
Copper	**0.00186**	0.0100	0.00129	1	MG/L	6010B	8/17/2009	J
Lead	BQL	0.0100	0.00679	1	MG/L	6010B	8/17/2009	
Mercury	BQL	0.000285	0.000024	1	MG/L	7470	8/13/2009	
Nickel	**0.00243**	0.0500	0.00236	1	MG/L	6010B	8/17/2009	J
Selenium	BQL	0.0100	0.00278	1	MG/L	6010B	8/17/2009	
Silver	**0.00687**	0.0100	0.000656	1	MG/L	6010B	8/17/2009	JB
Thallium	BQL	0.00100	0.000198	10	MG/L	6020	8/25/2009	
Tin	**0.00400**	0.100	0.00180	1	MG/L	6010B	8/26/2009	JB
Vanadium	**0.00142**	0.00100	0.000586	10	MG/L	6020	8/25/2009	
Zinc	BQL	0.0100	0.00129	1	MG/L	6010B	8/17/2009	B

Comments

BQL = Below Quantitation Limits
DF = Dilution Factor
J = Between MDL and RL
B= Amount in Prep Blank > MDL

Reviewed By: _____

METALS.XLS

Results for Metals

Client Sample ID:	MW3s-081109	Analyzed By:	PSW
Client Project ID:	C&D Landfill, Inc.	Date Collected:	8/11/2009 12:13
Lab Sample ID:	G1081-2-9	Date Received:	8/12/2009
Lab Project ID:	G1081-2	Matrix:	WATER
ICP InitWt/Vol:	50 mL Final Vol: 50 mL		
Hg InitWt/Vol:	40 mL Final Vol: 57 mL		
Prep Batch:	14889 14893		

Metals	Result	SWSL	MDL	DF	Units	Method	Date Analyzed	Flags
Antimony	BQL	0.00600	0.00295	1	MG/L	6010B	8/19/2009	
Arsenic	**0.00640**	0.0100	0.00491	1	MG/L	6010B	8/17/2009	J
Barium	**0.701**	0.100	0.00206	1	MG/L	6010B	8/17/2009	B
Beryllium	BQL	0.00100	0.000442	10	MG/L	6020	8/25/2009	
Cadmium	**0.000160**	0.00100	0.000158	10	MG/L	6020	8/25/2009	J
Chromium	**0.00680**	0.0100	0.00146	1	MG/L	6010B	8/17/2009	JB
Cobalt	**0.0106**	0.0100	0.00172	1	MG/L	6010B	8/17/2009	
Copper	**0.00264**	0.0100	0.00129	1	MG/L	6010B	8/17/2009	J
Lead	BQL	0.0100	0.00679	1	MG/L	6010B	8/17/2009	
Mercury	BQL	0.000285	0.000024	1	MG/L	7470	8/13/2009	
Nickel	**0.00347**	0.0500	0.00236	1	MG/L	6010B	8/17/2009	J
Selenium	**0.0170**	0.0100	0.00278	1	MG/L	6010B	8/17/2009	
Silver	**0.00822**	0.0100	0.000656	1	MG/L	6010B	8/17/2009	JB
Thallium	BQL	0.00100	0.000198	10	MG/L	6020	8/25/2009	
Tin	**0.0129**	0.100	0.00180	1	MG/L	6010B	8/26/2009	JB
Vanadium	BQL	0.00100	0.000586	10	MG/L	6020	8/25/2009	
Zinc	BQL	0.0100	0.00129	1	MG/L	6010B	8/17/2009	B

Comments

BQL = Below Quantitation Limits
DF = Dilution Factor
J = Between MDL and RL
B= Amount in Prep Blank > MDL

Reviewed By: _____
METALS.XLS

Results for Metals

Client Sample ID:	MW3A-081109	Analyzed By:	PSW
Client Project ID:	C&D Landfill, Inc.	Date Collected:	8/11/2009 13:38
Lab Sample ID:	G1081-2-10	Date Received:	8/12/2009
Lab Project ID:	G1081-2	Matrix:	WATER
ICP InitWt/Vol:	50 mL Final Vol: 50 mL		
Hg InitWt/Vol:	40 mL Final Vol: 57 mL		
Prep Batch:	14889 14893		

Metals	Result	SWSL	MDL	DF	Units	Method	Date Analyzed	Flags
Antimony	BQL	0.00600	0.00295	1	MG/L	6010B	8/19/2009	
Arsenic	BQL	0.0100	0.00491	1	MG/L	6010B	8/17/2009	
Barium	**0.125**	0.100	0.00206	1	MG/L	6010B	8/17/2009	B
Beryllium	BQL	0.00100	0.000442	10	MG/L	6020	8/25/2009	
Cadmium	**0.000180**	0.00100	0.000158	10	MG/L	6020	8/25/2009	J
Chromium	**0.00336**	0.0100	0.00146	1	MG/L	6010B	8/17/2009	JB
Cobalt	**0.0199**	0.0100	0.00172	1	MG/L	6010B	8/17/2009	
Copper	**0.00235**	0.0100	0.00129	1	MG/L	6010B	8/17/2009	J
Lead	BQL	0.0100	0.00679	1	MG/L	6010B	8/17/2009	
Mercury	BQL	0.000285	0.000024	1	MG/L	7470	8/13/2009	
Nickel	BQL	0.0500	0.00236	1	MG/L	6010B	8/17/2009	
Selenium	**0.00414**	0.0100	0.00278	1	MG/L	6010B	8/17/2009	J
Silver	**0.00715**	0.0100	0.000656	1	MG/L	6010B	8/17/2009	JB
Thallium	BQL	0.00100	0.000198	10	MG/L	6020	8/25/2009	
Tin	**0.00534**	0.100	0.00180	1	MG/L	6010B	8/26/2009	JB
Vanadium	BQL	0.00100	0.000586	10	MG/L	6020	8/25/2009	
Zinc	BQL	0.0100	0.00129	1	MG/L	6010B	8/17/2009	B

Comments

BQL = Below Quantitation Limits
DF = Dilution Factor
J = Between MDL and RL
B= Amount in Prep Blank > MDL

Reviewed By: _____

METALS.XLS

Analytical Results

Client Sample ID:	MW10-081009	Date Collected:	2009-08-10 11:57:00
Client Project ID:	C&D Landfill, Inc.	Date Received:	2009-08-12 11:30:00
Lab Sample ID:	G1081-2-5	Matrix:	Water
Lab Project ID:	G1081-2		

Analyte	Result	RL	Units	Method	Date Analyzed	Analyst
Total Cyanide	BQL	0.005	mg/L	SM4500CN C	08/17/09	EONE
Total Sulfide	BQL	0.05	mg/L	SM4500S2 D	08/18/09	EONE

Comments
BQL = Below Quantitation Limits
DF = Dilution Factor
RL = Report Limit

Reviewed By: subout

Analytical Results

Client Sample ID:	MW11-081009	Date Collected:	2009-08-10 13:53:00
Client Project ID:	C&D Landfill, Inc.	Date Received:	2009-08-12 11:30:00
Lab Sample ID:	G1081-2-6	Matrix:	Water
Lab Project ID:	G1081-2		

Analyte	Result	RL	Units	Method	Date Analyzed	Analyst
Total Cyanide	BQL	0.005	mg/L	SM4500CN C	08/17/09	EONE
Total Sulfide	BQL	0.05	mg/L	SM4500S2 D	08/18/09	EONE

Comments
BQL = Below Quantitation Limits
DF = Dilution Factor
RL = Report Limit

Reviewed By: subout

Analytical Results

Client Sample ID:	MW8-081009	Date Collected:	2009-08-10 15:25:00
Client Project ID:	C&D Landfill, Inc.	Date Received:	2009-08-12 11:30:00
Lab Sample ID:	G1081-2-7	Matrix:	Water
Lab Project ID:	G1081-2		

Analyte	Result	RL	Units	Method	Date Analyzed	Analyst
Total Cyanide	BQL	0.005	mg/L	SM4500CN C	08/17/09	EONE
Total Sulfide	BQL	0.05	mg/L	SM4500S2 D	08/18/09	EONE

Comments
BQL = Below Quantitation Limits
DF = Dilution Factor
RL = Report Limit

Reviewed By: subout

Analytical Results

Client Sample ID:	MW12s-081109	Date Collected:	2009-08-11 09:13:00
Client Project ID:	C&D Landfill, Inc.	Date Received:	2009-08-12 11:30:00
Lab Sample ID:	G1081-2-8	Matrix:	Water
Lab Project ID:	G1081-2		

Analyte	Result	RL	Units	Method	Date Analyzed	Analyst
Total Cyanide	BQL	0.005	mg/L	SM4500CN C	08/17/09	EONE
Total Sulfide	BQL	0.05	mg/L	SM4500S2 D	08/18/09	EONE

Comments
BQL = Below Quantitation Limits
DF = Dilution Factor
RL = Report Limit

Reviewed By: subout

Analytical Results

Client Sample ID:	MW3s-081109	Date Collected:	2009-08-11 12:13:00
Client Project ID:	C&D Landfill, Inc.	Date Received:	2009-08-12 11:30:00
Lab Sample ID:	G1081-2-9	Matrix:	Water
Lab Project ID:	G1081-2		

Analyte	Result	RL	Units	Method	Date Analyzed	Analyst
Total Cyanide	BQL	0.005	mg/L	SM4500CN C	08/17/09	EONE
Total Sulfide	**0.134**	0.05	mg/L	SM4500S2 D	08/18/09	EONE

Comments
BQL = Below Quantitation Limits
DF = Dilution Factor
RL = Report Limit

Reviewed By: subout

Analytical Results

Client Sample ID:	MW3A-081109	Date Collected:	2009-08-11 13:38:00
Client Project ID:	C&D Landfill, Inc.	Date Received:	2009-08-12 11:30:00
Lab Sample ID:	G1081-2-10	Matrix:	Water
Lab Project ID:	G1081-2		

Analyte	Result	RL	Units	Method	Date Analyzed	Analyst
Total Cyanide	BQL	0.005	mg/L	SM4500CN C	08/17/09	EONE
Total Sulfide	BQL	0.05	mg/L	SM4500S2 D	08/18/09	EONE

Comments
BQL = Below Quantitation Limits
DF = Dilution Factor
RL = Report Limit

Reviewed By: CD
subout

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(1)

CLIENT: David Garrett, P.G., P.E.

CONTACT: Same PHONE NO.: (919 418-4375

PROJECT: C & D Land Fill Inc. SITE/PWSID#:

REPORTS TO: Same Email: david@davidgarrettpe.com
5105 Harbour Towne Dr.
Raleigh, NC 27604 FAX NO.: (919) 231-1818

INVOICE TO: Aaron Hill / EFM QUOTE #:
495 Beaumont Lane
Pittsboro, NC 27312 P.O. NUMBER:

SGS Reference: G1081-2

PAGE 1 OF 1

(2)

LAB NO.	SAMPLE IDENTIFICATION	DATE	TIME	MATRIX	No CONTAINERS	SAMPLE TYPE (C= COMP, G= GRAB)	Appendix I VOCs (HCl)	Appendix I Metals (HNO3)	Appendix II VOCs (HCl)	Appendix II Metals (HNO3)	Appendix II 8270 (None)	Appendix II 8151 (None)	8082 (None)	8081 (None)	CN (NaOH)	Sulfide (NaOH + ZnAc)	REMARKS
	MW14S-081009	8/10/9	0900	GW	4	G	X	X									
	MW14d-081009	8/10/9	1005		4		X	X									
	MW13-081009	8/11/9	1028		4		X	X									
	MW9A-081009	8/11/9	1125		4		X	X									
	MW10-081009	8/10/9	1157		14				X	X	X	X	X	X	X	X	✓
	MW11-081009	8/10/9	1353		14				X	X	X	X	X	X	X	X	✓
	MW8-081009	8/10/9	1525		14				X	X	X	X	X	X	X	X	✓
	MW12S-081109	8/11/9	0913		14				X	X	X	X	X	X	X	X	✓
	MW3S-081109	8/11/9	1213		14				X	X	X	X	X	X	X	X	✓
	MW3A-081109	8/11/9	1338		14				X	X	X	X	X	X	X	X	✓

(5)

Collected/Relinquished By: (1)	Date	Time	Received By:
Aaron Hill	8/11/9	1600	[signature] 8/11/09 16:00
Relinquished By: (2)	Date	Time	Received By:
[signature]	8/12/09	11:30	[signature]
Relinquished By: (3)	Date	Time	Received By:
Relinquished By: (4)	Date	Time	Received By:

(4)

Shipping Carrier:

Shipping Ticket No:

Samples Received Cold? (Circle) YES NO

Temperature°C: 2.5, 3.7, 3.9, 3.7, 4.5

Special Deliverable Requirements:

Chain of Custody Seal: (Circle) 4.0, 2.7

INTACT BROKEN ABSENT

Special Instructions:

Requested Turnaround Time:

☐ RUSH _____ Date Needed ☐ STD