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August 31, 2009

SOLID WASTE SECTION  
ASHEVILLE REGIONAL OFFICE

Mr. Allen Gaither  
Solid Waste Permitting Section  
Division of Waste Management  
North Carolina Department of Environment and Natural Resources  
2090 U.S. Highway 70  
Swannanoa, North Carolina 28778

Fac/Perm/Co ID #	Date	Doc ID#
44-07	9, 2, 09	8536

RE: Closure Documentation  
Phase 1 Construction & Demolition Landfill  
White Oak MSW Landfill  
Haywood County, North Carolina  
Permit # 44-07

Dear Mr. Gaither:

On behalf of Haywood County, McGill Associates is pleased to present to you this submittal package that includes documentation for the closure of the Phase 1 Construction & Demolition Landfill at the White Oak Landfill. Closure activities were conducted in accordance with Section .0505 of the Solid Waste Rules and with the approved Closure Plan, which received approval from your office on November 25, 2008. A minimum of two feet of suitable compacted earth was placed over the construction and demolition wastes. Included in this submittal package is one hard copy and one digital copy of each of the following information:

- Engineers Certification
- Record Drawing C1

The site inspection by North Carolina Department of Environment and Natural Resources personnel to determine compliance with closure procedures may be conducted. Haywood County landfill staff will be on hand to dig test holes at your field representative's direction.

Engineering • Planning • Finance

McGill Associates, P.A. • P.O. Box 2259, Asheville, NC 28802 • 55 Broad Street, Asheville, NC 28801

828-252-0575 • Fax: 828-252-2518

We look forward to working with you to obtain final closure status for the Haywood County Phase 1 Construction and Demolition Landfill. Please contact us if you have any questions regarding this submittal or if you require additional information.

Sincerely,  
McGILL ASSOCIATES, P.A.



JEFFREY R. BISHOP, P.E.  
Senior Project Manager

Enclosures

cc: Ed Mussler, NCDENR Solid Waste Section, w/o enc  
Stephen King, Haywood County Solid Waste Director, w/enc  
Denese Ballew, White Oak Landfill Manager, w/enc

## PROFESSIONAL ENGINEERING CERTIFICATION OF COMPLETION

This letter is to certify that the final cap of the Haywood County White Oak MSW Landfill Phase 1 Construction/Demolition Landfill has been constructed in substantial accordance with the approved plans and specifications and with Section .0505 of the Solid Waste Rules. This certification is based on periodic review and inspection of the cap construction work by McGill Associates personnel. The cap construction was performed in accordance with the *Closure Plan, Construction & Demolition Landfill Phase 1, White Oak MSW Landfill* prepared by McGill Associates, which received approval from the North Carolina Department of Environment and Natural Resources, Solid Waste Section on November 25, 2008.

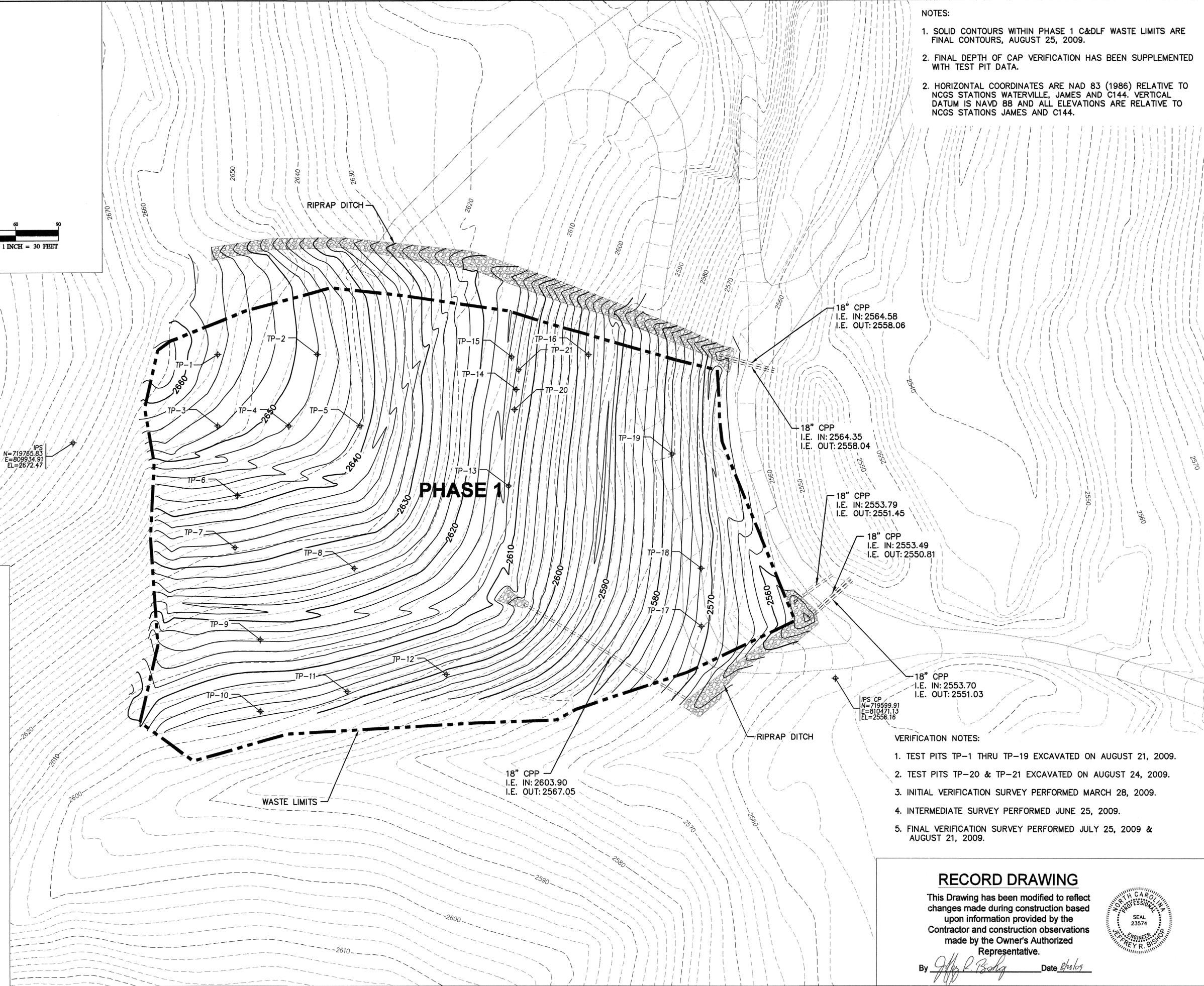
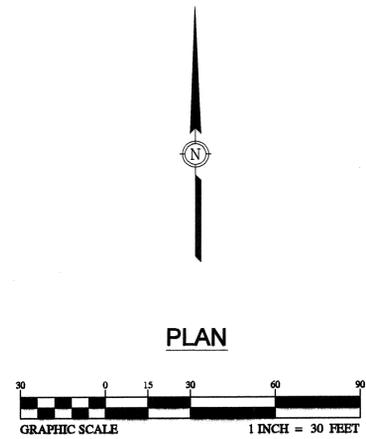


A handwritten signature in black ink that reads "Jeffrey R. Bishop".

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JEFFREY R. BISHOP, P.E.  
Senior Project Manager  
McGill Associates, P.A.  
North Carolina P.E. Registration #23574

- NOTES:
- SOLID CONTOURS WITHIN PHASE 1 C&DLF WASTE LIMITS ARE FINAL CONTOURS, AUGUST 25, 2009.
  - FINAL DEPTH OF CAP VERIFICATION HAS BEEN SUPPLEMENTED WITH TEST PIT DATA.
  - HORIZONTAL COORDINATES ARE NAD 83 (1986) RELATIVE TO NCGS STATIONS WATVILLE, JAMES AND C144. VERTICAL DATUM IS NAVD 88 AND ALL ELEVATIONS ARE RELATIVE TO NCGS STATIONS JAMES AND C144.



TEST PIT DATA	
TEST	DEPTH OF COVER
TP-1	2.5'
TP-2	> 3.5'
TP-3	> 3.0'
TP-4	> 3.2'
TP-5	3.0'
TP-6	> 3.0'
TP-7	> 3.0'
TP-8	> 4.0'
TP-9	> 3.0'
TP-10	> 3.0'
TP-11	> 2.5'
TP-12	4.0'
TP-13	> 2.5'
TP-14	> 2.0'
TP-15	3.0'
TP-16	> 2.0'
TP-17	> 3.0'
TP-18	3.0
TP-19	2.5'
TP-20	2.5'
TP-21	3.2'

PS  
 N=719765.85  
 E=809934.91  
 EL=2672.47

18" CPP  
 I.E. IN: 2564.58  
 I.E. OUT: 2558.06

18" CPP  
 I.E. IN: 2564.35  
 I.E. OUT: 2558.04

18" CPP  
 I.E. IN: 2553.79  
 I.E. OUT: 2551.45

18" CPP  
 I.E. IN: 2553.49  
 I.E. OUT: 2550.81

18" CPP  
 I.E. IN: 2553.70  
 I.E. OUT: 2551.03

18" CPP  
 I.E. IN: 2603.90  
 I.E. OUT: 2567.05

IPS CP  
 N=719599.91  
 E=810471.13  
 EL=2656.16

- VERIFICATION NOTES:
- TEST PITS TP-1 THRU TP-19 EXCAVATED ON AUGUST 21, 2009.
  - TEST PITS TP-20 & TP-21 EXCAVATED ON AUGUST 24, 2009.
  - INITIAL VERIFICATION SURVEY PERFORMED MARCH 28, 2009.
  - INTERMEDIATE SURVEY PERFORMED JUNE 25, 2009.
  - FINAL VERIFICATION SURVEY PERFORMED JULY 25, 2009 & AUGUST 21, 2009.

**RECORD DRAWING**

This Drawing has been modified to reflect changes made during construction based upon information provided by the Contractor and construction observations made by the Owner's Authorized Representative.

By *Jeffrey R. Bishop* Date *8/25/09*

