

June 26, 2014

Permit No.	Date	Document ID No.
<b>43-03</b>	<b>June 27, 2014</b>	<b>21343</b>

Mr. Ming-Tai Chao, P.E.  
Environmental Engineer  
NC DENR - Division of Waste Management  
1646 Mail Service Center  
Raleigh, North Carolina 27699

Received by an e-mail  
Date: **June 26, 2014**  
Solid Waste Section  
Raleigh Central Office

**RE: French Drain Removal Update - C&D Landfill (Permit No. 43-03)**  
**Harnett County Anderson Creek Landfill Facility**  
**Spring Lake, North Carolina**

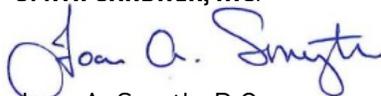
Dear Mr. Chao:

As you know, Harnett County personnel have been in the process of removing the existing french drain located along the northwest edge of the active C&D landfill at the above referenced facility. At this time, the County has removed approximately 880 feet of the french drain, or approximately 82% of the total installed drain length. Currently, the remaining drain piping is located greater than 20 feet below grade, and it appears that this piping is located adjacent to the original site berm, constructed of clayey material. At this time, there are safety concerns regarding destabilization of the berm integrity, as well as difficulties presented by excavating at this depth immediately adjacent to the active landfill.

For these reasons, Harnett County requests to end the french drain removal activities and leave the remaining piping in place. The portion of the french drain that has already been excavated is shown as shaded on the attached **Figure 1**. Based on our estimates, it appears that approximately 190 feet of french drain will remain in the subsurface. The remaining french drain is not installed in a stone filled trench, and therefore has limited flow capacity. Due to the upgradient location of the remaining piping, any collected flow will move downgradient, through the natural soils in the subsurface, within the natural aquifer.

Should you have any questions or require clarification or additional information, please contact me at your earliest convenience.

Sincerely,  
**SMITH GARDNER, INC.**



Joan A. Smyth, P.G.  
Senior Hydrogeologist  
[joan@smithgardnerinc.com](mailto:joan@smithgardnerinc.com)

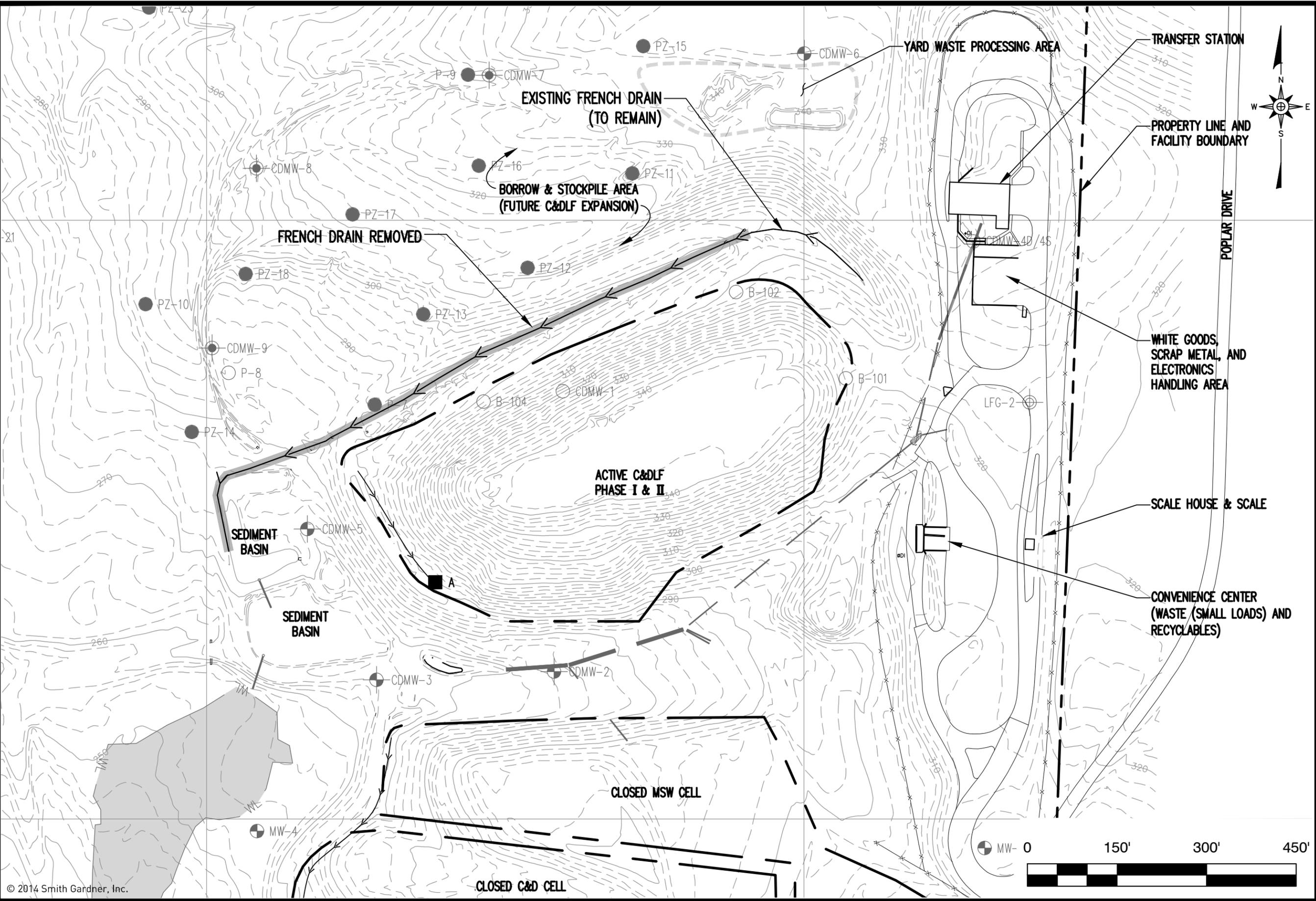


Pieter K. Scheer, P.E.  
Vice President, Senior Engineer  
[pieter@smithgardnerinc.com](mailto:pieter@smithgardnerinc.com)

Attachment

cc: Amanda Bader, P.E., Harnett County  
Randy Smith, Harnett County  
Andrew Holland, Harnett County

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PREPARED BY: NC LIC. NO. C-0828 (ENGINEERING)

# SMITH+GARDNER

14 N. Boylan Avenue, Raleigh NC 27603 | 919.828.0577

FIGURE NO. 1

SCALE: AS SHOWN

APPROVED: J.A.S.

DRAWN: K.C.B.

PROJECT NO: HARNETT-AC-13-4

DATE: Jun 2014

FILENAME: HARNETT-B0043

## ANDERSON CREEK C&D LANDFILL FRENCH DRAIN REMOVAL DETAIL

PREPARED FOR: