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From: Chao, Ming-tai
To: "[Joan Smyth](#)"; [Amanda Bader](#); rsmith@harnett.org; [Andrew Holland](#)
Cc: [Pieter Scheer](#); [Shackelford, Dennis](#); [Hearn, Robert](#)
Subject: Harnett County French Drain Removal Report
Date: Friday, June 27, 2014 3:24:00 PM

Sent by an e-mail
Date: **June 27, 2014**
Solid Waste Section
Raleigh Central Office

Hey Joan:

The report was logged and scanned to the DWM document tracking system with a DIN 21343.

According to the Report, about 190-foot-long pipe was left in-place and could not be removed due to safety concerns. The report didn't mention the size of the pipe. If the diameter pipe is large enough (said 4-inch or greater), can the County using lean concrete grout (cement/sand/bentonite mixture or flow-able fill) to plug the pipe? The concrete pump truck can pump the grout via pipe ends. The remaining pipe is likely located underneath the additional Phase 2 expansion area. Please take some photos about this activities and document the quantity/volume of the grout used for plugging.

Please also respond the following concerns:

1. Please describe the size of the drain pipe. Was it perforated and enveloped by granular fill/geotextile? How deep was the drain pipes (below ground surface)?
2. Was there any waste (C&D or MSW wastes) encountered during the piping removal activities? If so, how and where was the waste disposed of?
3. How was the excavation area backfilled? The portions of trench are located inside the future Phase 3.
4. Any groundwater was encountered during the removal activities? At what depth?

From: Joan Smyth [<mailto:joan@smithgardnerinc.com>]
Sent: Thursday, June 26, 2014 10:19 AM
To: Chao, Ming-tai; Amanda Bader; rsmith@harnett.org; Andrew Holland
Cc: Pieter Scheer
Subject: Harnett County French Drain

Ming –

Attached is an update regarding the french drain removal activities at the Anderson Creek landfill. Please contact us with any questions or if you need any additional information.

Thanks.

Joan A. Smyth, P.G.
Senior Hydrogeologist

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