From: Drummond, Jaclynne
To: "Ed Henriques";
cc: "Connel Ware"; "jeryl.covington@greensboro-nc.gov"; "david.bost@greensboro-nc.gov";
Subject: RE: White Street Landfill - Phase II Sentinel Monitoring Wells
Date: Thursday, April 29, 2010 9:38:00 AM

The Solid Waste Section has reviewed the April 6, 2010 email in regards to the White Street Landfill Phase II sentinel monitoring wells. The locations and the construction for these sentinel monitoring wells were also included. Sentinel monitoring wells SMW-2 and SMW-5 will not be installed at this time, and SMW-1, SMW-3, and SMW-4 will be installed at this time. As a result, the request is approved as described. Thank you for your continued cooperation with this matter. If you have any questions, please feel free to contact me.
Thanks,
Jackie

Jaclynne Drummond
Compliance Hydrogeologist
NC Department of Environment and Natural Resources
Division of Waste Management – Solid Waste Section
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New email address is jaclynne.drummond@ncdenr.gov

From: Ed Henriques [mailto:EHenriques@smeinc.com]
Sent: Tuesday, April 06, 2010 1:53 PM
To: Drummond, Jaclynne
Cc: Connel Ware
Subject: White Street Landfill - Phase II Sentinel Monitoring Wells

Good afternoon Jackie, we have assembled the information below plus several attachments which should be helpful to your review of the proposed sentinel monitoring wells yet to be installed within Phase II of the White Street Landfill. Pending your approval, we will look install the wells during April or early May. Let me know if you need additional information for your review and approval process, or if you have any questions at all.

- CAP proposed sentinel wells SMW-2 and SMW-5 would not to

be installed at this time based on the recent DWM concurrence that thallium is no longer a constituent of concern at compliance wells II-12 and II-11. These wells may be required or appropriate at a later date.

- Proposed sentinel well SMW-1 would be installed down-gradient of well II-2B. The ground elevation at SMW-1 is approximately 4 to 6 feet lower than at well II-2B. With DTGW at II-2B 14.5' BTOC or ~ 12' below the ground surface, we propose a 28' well with 8' riser and 20' screen. See the attached proposed well construction sketch and for reference the well construction records for select existing wells. I think it will be prudent to have the sentinel well depth closer to the top of rock or terminated in partially weather rock (PWR). This may require a somewhat longer well screen but I think this design provides a more effective well for monitoring the water table aquifer. Final total screen lengths would be no more than 20 feet based on the actual conditions encountered.
- Proposed sentinel well SMW-3 would be installed down-gradient of well II-9. The ground elevation at SMW-3 is approximately 2 to 3 feet lower than at well II-9. With DTGW at II-9 was 10.43' BTOC or ~ 8' below the ground surface, we propose a 28' well with 8' riser and 20' screen. See attached proposed well construction sketch and for reference the well construction records for select existing wells. As mentioned above I think it will be prudent to have the sentinel well depth closer to the top of rock or terminated in PWR. This may require a somewhat longer well screen but I think this design provides a more effective well for monitoring the water table aquifer. Final total screen lengths would be no more than 20 feet based on the actual conditions encountered.
- Proposed sentinel well SMW-4 would be installed down-gradient of well II-6. The ground elevation at SMW-4 is approximately 6 to 8 feet lower than well II-6. With DTGW at II-6 was 14.33' BTOC or ~ 12' below the ground surface, we propose a 28' well with 8' riser and 20' screen. See attached proposed well sketch and for reference the well construction records for select existing wells. As mentioned above I think it

will be prudent to have the sentinel wells completed to depths closer to the top of rock or terminated in PWR. This may require a somewhat longer well screen but I think this design provides a more effective well for monitoring the water table aquifer. Final total screen lengths would be no more than 20 feet based on actual conditions encountered.

As always, we are open and interested in your thoughts, comments, or questions.

Best Regards, Ed Henriques

Edmund Q.B. Henriques, L.G.
Environmental Department Manager

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From: Ed Henriques
Sent: Friday, March 26, 2010 11:10 AM
To: 'Drummond, Jaclynne'
Subject: RE: Request to Delay Certain Phytoremediation Beds - White Street Landfll Phase II

Thanks for your quick response. The well locations were contained in the CAP; however, specific well construction details (proposed) were not. I will get that information to you shortly. Have a great weekend!
J Ed

Edmund Q.B. Henriques, L.G.
Environmental Department Manager

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From: Drummond, Jaclynne [mailto:jaclynne.drummond@ncdenr.gov]
Sent: Friday, March 26, 2010 11:06 AM
To: Ed Henriques
Subject: RE: Request to Delay Certain Phytoremediation Beds - White Street Landfll Phase II

If that information is not located within the approved CAP, then please submit that information via email to me prior to the installation.
Thanks,
Jackie

Jaclynne Drummond
Compliance Hydrogeologist
NC Department of Environment and Natural Resources
Division of Waste Management – Solid Waste Section
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New email address is jaclynne.drummond@ncdenr.gov

From: Ed Henriques [mailto:EHenriques@smeinc.com]
Sent: Thursday, March 25, 2010 4:33 PM
To: Drummond, Jaclynne
Subject: RE: Request to Delay Certain Phytoremediation Beds - White Street Landfll Phase II

Thanks Jackie!

One question relative to the sentinel wells yet to be installed. Do we

need to submit a well location map and proposed well construction details for approval, prior to installation? With weather and site conditions improving with the end of winter, we hope to get these wells installed in April.

Thanks, Ed

Edmund Q.B. Henriques, L.G.
Environmental Department Manager

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From: Drummond, Jaclynne [mailto:jaclynne.drummond@ncdenr.gov]
Sent: Thursday, March 25, 2010 9:49 AM
To: jeryl.covington@greensboro-nc.gov

Cc: Connel Ware; Ed Henriques; Poindexter, Mark; Watkins, Jason; Jernigan, Hugh; david.bost@greensboro-nc.gov
Subject: Request to Delay Certain Phytoremediation Beds - White Street Landfll Phase II

Jeryl,
Attached is a letter regarding the request to delay certain phytoremediation beds located at the City of Greensboro White Street Landfill - Phase II. A paper copy has also been sent to you in today's mail. If you have any questions, please let me know.
Thanks,
Jackie

Jaclynne Drummond
Compliance Hydrogeologist
NC Department of Environment and Natural Resources
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New email address is jaclynne.drummond@ncdenr.gov