DEPARTMENT OF THE ARMY
SAVANNAH DISTRICT, CORPS OF ENGINEERS
P.O. BOX 889
SAVANNAH, GEORGIA 31402-0889

February 20, 2015

REPLY TO
ATTENTION OF:

Environmental and Interagency and International
Services Management Branch

Directorate of Public Works
Environmental Division
Attn: IMSE-BRG-PWE-C (Sid Williamson)
Bldg. 3-1137 Butner Road
Fort Bragg, NC 28310

SUBJECT: Groundwater NC2L Exceedances Fort Bragg Longstreet Road Landfill, Permit #26-02, Fort Bragg, North Carolina.

Dear Mr. Williamson:

Groundwater NC2L exceedances have persisted in multiple monitoring wells surrounding the subject facility. The exceedances were most recently observed in groundwater samples from SLMW-6, SLMW-9R, SLMW-10, and SLMW-11R. The North Carolina Department of Environment and Natural Resources (NCDENR) Division of Waste Management notified Fort Bragg that the installation must determine if exceedances are present 250 feet from the landfill boundary.

The U.S. Army Corps of Engineers, Savannah District has completed a review of the monitoring wells that routinely exceed the methane standard and proposes to install additional monitoring wells at the 3 locations identified in Figure 1. The attached Figure 2 depicts the inferred direction of groundwater flow in the vicinity of the landfill. The location for proposed monitoring well SLMW-13 will be used to determine if the migration of landfill gas has affected groundwater at the edgeof the 250 ft buffer from the landfill boundary laterally (with respect to groundwater flow) from SLMW-10. The locations for proposed monitoring wells SLMW-14 and SLMW-15 are at the edge of the 250 ft buffer from the landfill boundary downgradient from wells SLMW-10 and SLMW-9R .

The monitoring wells will be constructed of 2-inch polyvinyl chloride (PVC) and will be installed in accordance with the NCDENR guidelines and North Carolina Administrative Code 15A NCAC 13B.1600. Once installation of the proposed wells is complete, the new boundary wells will be incorporated into the monitoring program and will be sampled semi-annually in accordance with NCDENR guidelines as long as NC2L exceedances are present in the upgradient wells. Should the proposed locations indicate that groundwater contains NC2L exceedances at the edge of the 250 ft buffer, an assessment of corrective measures will need to be completed to determine how to address the exceedances.

Please feel free to contact the undersigned at (912) 652-5087 or Kevin Haborak at (912) 652-6083 should you have any questions on this matter.

Sincerely

Dena Thompson
Project Manager

Enclosure

CF:
CESAS-PM-H (Project File)
CESAS-EN-GH (Haborak)

LEGEND

- Proposed Groundwater Wells
- Groundwater Monitoring Wells (2013)
- Groundwater Monitoring Wells (Pre-2013)
- Methane Monitoring Wells (2013)
- Methane Monitoring Wells (2012)
- Methane Monitoring Wells (Pre-2012)
- Boundary Corners
- Boundary
- Boundary Buffer (250 ft)
- Buildings
- Streams
- Roads
- Trails

1 inch = 473 feet

0 235 470 940'

N

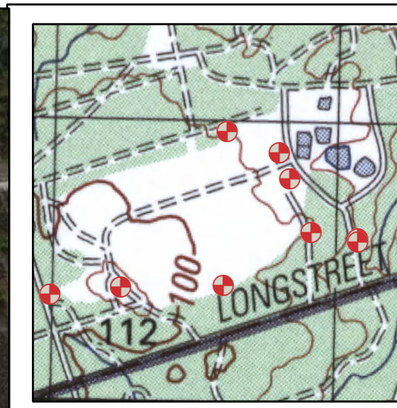
U.S. ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
SAVANNAH, GEORGIA

PROPOSED MONITORING WELL LOCATIONS

FEB 2015

LONGSTREET LANDFILL
FT. BRAGG, NC

DATE: FEB 2015	FIGURE 1



Legend

- Groundwater Monitoring Wells
- Groundwater Contour Line

Note: Monitoring wells used for potentiometric surface are displayed with elevations in feet above MSL in parenthesis below the label.

Arrows point in direction of groundwater flow.

1 inch = 350 feet

0 175 350 700'

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LONGSTREET ROAD LANDFILL

POTENTIOMETRIC SURFACE MAP
MAY 2014

FORT BRAGG, NC

DATE: JULY 2014 | FIGURE: 2