

David Garrett, P.G., P.E.

Engineering and Geology

May 19, 2011

Ms. Elizabeth Werner, Hydrogeologist
NC DENR Division of Waste Management
Solid Waste Section
401 Oberlin Road
Raleigh, North Carolina, 27611

**RE: Blasting Schedule Notification
Construction of Phase 2, Cell A
WCA Brownfield Road C&D Landfill
Wake County, NC (Permit #92-31)**

Dear Ms. Werner:

In accordance with the blasting plan I prepared and the Section authorized per your approval letter dated May 16, 2011, I am providing formal notification of WCA's intent to conduct the first blasting event on Friday afternoon, May 20, 2011, tentatively between 3 and 4 pm. I visited the site today and discussed the plan provisions with the contractor (John Brink of Bentley Construction) and licensed blaster Joe Wilhelm (Wampung Construction). Also present was Dennis Gehle of WCA and monitoring technician Robert Nicks of Saul's Seismic.

My discussion with the contractor and blaster included stopping the drill holes at grade if they are not in rock and extending the holes to a depth of 3 feet below grade if in rock. We also discussed surveying the rock surface after the shot (and removal of debris), prior to placing compacted backfill, in order to verify vertical separation. The drilling commenced Wednesday, May 18, 2011 and will continue through Friday until the time of the shot. Blasting agents will be loaded on Friday morning, and the shot will be initiated mid- to late-afternoon. A drill map is in preparation, showing the drill pattern and depths; arrangements have been made to forward me a copy of the map Thursday afternoon, which I intend to forward to you.

Two continuous monitoring, remote sensing seismic monitors were set and activated today, which will remain in place until the blasting is completed. One monitor is located at the edge of Phase 1, adjacent to the previously blasted area. The other monitor was set near the location of future MW-8. These locations are along the "strike" of the rock ledge identified in the earlier site study. Upon my field inspection, I believe that MW-1, which is completed in saprolite, is not susceptible to damage from the blasting. None of the deep wells prescribed in the approved Water Quality Monitoring Plan have been installed. Landfill gas wells and shallow saprolite wells have been installed, but I do not believe these wells are at risk. The selected location for seismic monitoring near MW-8 is closer to the shot than any of the other monitoring wells (including MW-1), and the site studies had identified shallow rock between the Phase 2 footprint and MW-8, making this area more susceptible to vibration.

On a side note, I do not believe any residents or structures in the adjacent neighborhood to the west of the site will be disturbed or damaged. If residents are at home, they may hear a low frequency rumble – not nearly as loud as distant thunder – but they are unlikely to feel any vibrations. Excess vibrations are not likely to propagate beyond the facility boundary toward the west due to topography and soil damping. The shot holes will be stemmed and covered with soil overburden to prevent fly rock. The nearest structures are in excess of 1500 from the blast site, and based on experience, I do not believe these structures are at risk due to the planned activities. I do not anticipate any valid complaints will be received.

Per our phone discussion on Wednesday afternoon, please plan to meet me at 1 pm on Friday, May 20, 2011 at the site. I will give you a tour of the preparations and post-blast inspection. We will have an opportunity to witness the shot from a safe location. I will provide the follow up report with the seismic records by Tuesday, May 24, 2011. We anticipate there will be at least one more shot, likely within that following week – this will be determined later.

Please contact me at your earliest convenience (on my mobile phone) if you have any questions or comments. Thank you for your cooperation regarding this matter.

Very Truly Yours,

G. David Garrett, P.G., P.E.

cc: Ed Mussler, P.E., Permitting Branch Head, Solid Waste Section
Nick Marotta, Dennis Gehle – WCA











