

North Carolina Department of Environmental Quality

Pat McCrory
Governor

Donald R. van der Vaart
Secretary

October 23, 2015

Mr. Lance Norris, Public Works Director
Town of Chapel Hill
405 Martin Luther King Jr. Blvd
Chapel Hill NC 27514

Re: Chapel Hill Police Department Property
828 Martin Luther King Jr Blvd, Chapel Hill, Orange County, NC
Site ID# NONCD0001486

Dear Mr. Norris:

I have completed review of the Environmental Site Characterization Report, received on August 28, 2015. In order to fully determine the potential environmental impacts of this site, we will need the following information:

1. Provide a water table elevation contour map with groundwater flow patterns depicted and tabulated groundwater elevation data. Please note that groundwater elevations should be measured from a datum established by a professional land surveyor. If the elevation measurements that were taken during the monitoring well installation and sample collection were based on such a datum, then these measurements can be used.
2. In order to ensure that monitoring accounts for potential seasonal changes, conduct another round of sampling of MW-1, MW-3a and MW-4a about 6 months from the last sample collection effort. Please ensure that proper field procedures are followed when preparing the wells for sampling. For example, purge each well until the turbidity in the well is no higher than 10 NTUs and temperature and pH have stabilized. We highly recommend aggressive development of the turbid wells, then wait a week before sampling. The wells should then be purged prior to sampling using low-flow techniques. Waiting as long as possible after purging but no longer than 24 hours to collect the sample will also help. If turbidity does not reach 10 NTU, you may need to conduct additional well development. If the turbidity gets close to 10 NTUs, you may opt to collect filtered and unfiltered samples for analysis. The filtered sample will be used to evaluate the situation, but not necessarily for compliance with standards.

The table below contains a list of analytes that the Department of Environmental Quality has compiled for coal ash sites. The samples collected from MW-1, MW-3a and MW-4a should be analyzed for all of the parameters listed in the 'Groundwater Sample' column.

Please note that our Department is still compiling the list of parameters and therefore the list may change by the time you collect a sample, so check with me before you sample.

3. In the area down gradient from the Police Department building, between the cliff and greenway, dark material that could be coal combustion product has been observed that likely eroded from the cliff. Please collect samples of this material and have it analyzed for the parameters listed in the table below, in the 'Soil Sample' column.

As noted in past correspondence, please ensure that all sample collection procedures are conducted as outlined in the *Inactive Hazardous Sites Program Guidelines for Assessment and Cleanup* and the *US EPA Region IV Science and Ecosystem Support Division Field Branches Quality System and Technical Procedures*.

Maps, data, field notes, sample results, and laboratory reports should be provided as outlined in the Remedial Investigation Reports Section 3.0 of our program's guidelines referenced above.

Until it has been determined that the site is not posing risk to human health or the environment, you must control site access and take measures to prevent soil run off. If you have any questions, please do not hesitate to contact me at (919) 707-8371 or via email at amy.axon@ncdenr.gov.

Sincerely,



Amy Axon, Hydrogeologist
Division of Waste Management, NCDEQ

cc: Curtis Brooks, Town of Chapel Hill
Christopher Burkhardt, Falcon Engineering

Parameter	Groundwater Sample	Soil Sample
Alkalinity	X	
Aluminum	X	
Antimony	X	X
Arsenic	X	X
Barium	X	X
Beryllium	X	X
Bicarbonate	X	
Boron	X	X
Cadmium	X	X
Calcium	X	
Carbonate	X	
Cobalt	X	X
Chromium (total)	X	X
Chromium, (hexavalent)	X	
Copper	X	X
Iron	X	
Lead	X	X
Magnesium	X	
Manganese	X	X
Molybdenum	X	X
Mercury	X	X
Nickel	X	X
pH	X	
Potassium	X	
Selenium	X	X
Sodium	X	
Strontium	X	X
Thallium	X	X
Total Dissolved Solids	X	
Turbidity	X	
Vanadium	X	X
Zinc	X	X
Chloride	X	
Sulfate	X	