Date: March 13, 2017 From: Nick Torrey, Southern Environmental Law Center To: Chapel Hill Town Council Re: Contaminated Coal Ash Site at Chapel Hill Police Station Property

On behalf of Friends of Bolin Creek, the Southern Environmental Law Center submits the following comments and documents regarding the Town's Phase II Remedial Investigation Report ("the report"). The report confirms several disturbing facts about the coal ash dump site directly above the public greenway and Bolin Creek:

- There is a coal ash cliff over 40 feet high that is eroding coal ash and toxic pollutants down to the public greenway. All of this ash must be removed for the long-term health and safety of the public and the Bolin Creek ecosystem.
- The coal ash pollution is contaminating soil along the greenway, groundwater, and Bolin Creek:
  - **Soil**: the soil along the greenway contains elevated levels of coal ash pollutants. In the last round of sampling, arsenic of over five times the residential healthbased soil level was found on the south side of the greenway, contrary to the statement on page 34 of the report that there were no impacts in this location.
  - **Groundwater**: high levels of many coal ash pollutants have been found in the groundwater at the site for years, and this study confirms the groundwater contamination remains significant. The groundwater at the site flows into Bolin Creek.
  - **Bolin Creek**: the coal ash site is contaminating Bolin Creek. Manganese levels are two to three times higher downstream from the site than upstream. In addition, elevated levels of manganese, cobalt, and barium were found in the downstream sediments of the creek.
- There is also a serious discrepancy in the report. The report claims the coal ash is separated from the groundwater. For example, figure 5 of the report shows a thin layer of ash at monitoring well MW-1 that is some 20 feet above the groundwater. However, the original well drilling log for MW-1 shows that the coal ash extends down ten feet *below* the water table, and that the layer of coal ash is 31 feet thick. *See* 2013 Well Construction Record, attached. This directly contradicts what is shown in the current report (fig. 5 is attached for reference). The Town must determine the true depth of the coal ash relative to the groundwater in order to understand the risks from ongoing pollution in this location.



## NON RESIDENTIAL WELL CONSTRUCTION RECORD

North Carolina Department of Environment and Natural Resources- Division of Water Quality

WELL CONTRACTOR CERTIFICATION # 2986-A

112000-							
1. WELL CONTRACTOR:				<b>FT A</b>			
Landa M. Shaver	*Top of casin	nG IS06	at/or bel	FI. ADOVE	e may require	er e	
Well Contractor (Individual) Name	a variance in accordance with 15A NCAC 2C .0118.						
American Environmental Drilling, Inc.	e. YIELD (gpm)	e. YIELD (gpm) N/A METHOD OF TEST N/A					
Well Contractor Company Name	f. DISINFECTI	ON: Type_N	/A	A Amount N/A			
<u>324 Fields Drive, Suite C</u> Street Address	g. WATER ZON	ES (depth):					
	Тор <u>30</u>	Bottom	<mark>40</mark>	Тор	Botto	m	
<u>ADEIGEEII NC 28515</u>	Top	Bottom		Top	Botto	m	
$(910)_{-}$ 944-3140	тор	Bottom		i op	Botto	m	
Area code- Phone number	7 CASING	Denth		Diamet	I hickness	/ Matorial	
2. WELL INFORMATION:	Top06	Bottom	30'	Ft.2"	SCH40	PVC	
WELL CONSTRUCTION PERMIT # MW #1	Тор	Bottom		Ft			
OTHER ASSOCIATED PERMIT #(if applicable)	Тор	Bottom		Ft			
SITE WELL ID #(if applicable)	8. GROUT:	Depth		Materia	al N	lethod	
2 WELL LISE (Chack Applicable Rox) Monitoring M Municipal/Public D	Top <u>26'</u>	Bottom	28'	Ft. Benton	<u>iite Tre</u>	emie	
	Top <u>06</u>	Bottom	26'	FtPortlan	id Tre	emie	
	Тор	Bottom		Ft			
Irrigation [] Other [] (list use)		Donth		Diamata	r Elot Sizo	Motorial	
DATE DRILLED 4/29/2013	, 9. SCREEN.	Bottom	40'	Ft. 2"	in010 ir	n. PVC	
4. WELL LOCATION:	Top	Bottom		Ft	inir	n	
828 Martin Luther King Blvd. 27599	Тор	Bottom		Ft	_inir	າ	
(Street Name, Numbers, Community, Subdivision, Lot No., Parcel, Zip Code)	10. SAND/GRAVE	L PACK:					
CITY: Chapel Hill COUNTY Orange		Depth		Size	Ма	aterial	
TOPOGRAPHIC / LAND SETTING: (check appropriate box)	Top <u>28'</u>	Bottom	40'	Ft <u>.#3</u>	<u>Sa</u>	nd	
□Slope □Valley ⊠Flat □Ridge □Other	. Top	Bottom		 Ft.			
LATITUDE 35 <sup>0</sup> 55' 602 "DMS <b>OR</b> 3X.XXXXXXXX DI	D						
LONGITUDE	D Top Botto	s: om	F	ormation D	escription		
Latitude/longitude source: AGPS Topographic map (location of	0' / 5'	0' / 5' Top Soil					
well must be shown on a USGS topo map and attached to this form if not using GPS)	¦ <u>5'</u> / 9'		Fill				
	<mark>9' / 40'</mark>		Black A	<mark>\sh</mark>			
5. FACILITY- is the name of the business where the well is located.							
Chapel Hill Police Dept.							
Facility Name      Facility ID #(if applicable)	/						
828 Martin Luther King Blvd							
Street Address	/						
04001 1d41000							
Chapel Hill NC 27599							
Chapel HillNC27599City or TownStateZip Code							
Chapel Hill  NC  27599    City or Town  State  Zip Code    Contact Name  Contact Name  Contact Name	/ / / / 12. REMARKS						
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Submit within 30 days of completion to the Division of Water Quality - Information Processing, 1617 Mail Service Center- Raleigh, NC 27699-1617 Phone No. (919) 807-6300

Form GW-1b Rev. 2/09

