

EXHIBIT C
Task Order Number 19-03
Groundwater Monitoring Program for the Buncombe County New Landfill
Buncombe County Environmental Management Department

SCOPE OF SERVICES

This proposal provides for the continued surface and groundwater monitoring at the New Buncombe County landfill by SCS Engineers, P.C. (SCS). This facility is the active waste disposal site. Semi-annual monitoring of the facility groundwater, leachate and surface water is a requirement of the solid waste regulations under which the facility is permitted. Additionally, the Buncombe County Board of Commissioners has volunteered to sample and test residential drinking water wells of individuals whose wells are located within one-half mile of the new landfill. The base testing procedure for both facilities and the individual wells is the Appendix 1 of 40 CFR Part 258 constituents.

The groundwater wells, leachate wells and surface water locations at the facility must be sampled and tested twice during the term of this task order. The first sampling event under this agreement will be the 4th quarter of 2018 with the second sampling event occurring in the 2nd quarter of 2019. The residential wells will be sampled once per year during the 2nd quarter sampling event. This task order will continue in effect until the final report for the 2nd quarter is accepted by NCDEQ and all off-site well sampling notices are sent to the individual homeowners.

From time to time the County calls on SCS to provide engineering support for tasks on an on-call basis. To provide a quick response to the County, a task for engineering support is included. Direction to conduct efforts under this task are from the Solid Waste Director and/or his designate.

To provide these services the following scope is proposed:

SCOPE OF SERVICES

TASK 1 - SEMI-ANNUAL SAMPLING

This scope describes the steps that will be taken for each sampling event. There will be two events over the life of this proposal. The groundwater, leachate and surface water monitoring points will be sampled and tested for Appendix I constituents at the new disposal facility. The basis for estimating the budget for this service includes groundwater-monitoring wells, surface monitoring locations, raw-leachate sample, liner detection locations, and C&D locations. Travel and/or equipment blanks will be collected and processed for quality control.

Groundwater and surface water sampling in accordance with the Construction and Demolition Landfill (C&D) regulations require that additional sampling parameters must be included for the

C&D area groundwater wells and surface water locations at the new landfill.

The test results will be transmitted to DEQ and the County with the semi-annual reports. Additionally, SCS will provide the County with a Microsoft Access database file with sample results. As new monitoring wells are added or deleted the cost for the services will be adjusted accordingly. The County will provide SCS a copy of the DEQ approved monitoring plans along with the boring and well logs including any new wells that are added due to disposal unit additions or well field expansions.

TASK 2 - Reporting

SCS will provide groundwater reporting services for the new landfill in accordance with the Site Permit (Permit No. 1107) and DEQ Solid Waste Regulations (NCAC 13B.1632). SCS will review analytical results and report any exceedances.

The semi-annual reports will include groundwater contour figures, data summary tables, a brief summary of the analytical results, and discussion regarding historical trends and other related issues affecting groundwater quality. Reports will be submitted to DEQ and the County within 120 days from the date of sampling as required by DEQ. The latest version of the DEQ reporting form will be used to relay the data to the state agency.

If a re-sampling event occurs a letter report will be prepared summarizing the data from the re-sampling event within 30 days of receipt of final results from the laboratory. Response to one round of DEQ review comments is included.

If new wells are added by the County, the County will provide SCS with the well(s) boring logs, location/coordinates, depth, slug test results, and any other available data. Initial rounds of sampling and testing will be provided by SCS for the initial report to DEQ.

At the new landfill there are 25 groundwater monitoring wells, 8 of these 25 wells are associated with the Construction and Demolition (C&D) disposal areas that are tested for additional parameters with 2 more to be added prior to receiving the permit to operate the disposal area under construction. There are also 8 liner leak detection/leachate testing locations, and up to 72 off-site residential wells. Funds are included in the budget for potential re-testing of the surface or groundwater locations, thus the number of wells in the fee estimate summary table may be different from the number above. Note that testing requirements may vary between the individual semi-annual testing periods.

TASK 3 - RESIDENTIAL WELLS

Approximately seventy two residential drinking water wells within one-half mile of the new disposal facility have been identified as potential locations for sampling and testing. These wells will be sampled in accordance with acceptable state protocol and will be tested for the Appendix I volatile constituents only. Sample blanks will be collected and processed for quality control during each sampling event.

SCS will review test results from each well to determine if any results exceed state standards. SCS will notify the county of any exceedances. If an exceedance occurs a second sample will be taken for confirmation. A copy of the test results will be provided to the County in a separate document. SCS will mail the property owners a copy of the test results based on the previous testing location's information. If any reports are returned SCS will search for appropriate information to deliver the results to the current owner as listed in the County's tax records. Should additional testing be required, the County will adjust the fees to accommodate additional sampling requirements.

TASK 4 – OTHER ENGINEERING SERVICES

From time to time situations arise that are either short in duration or need engineering assistance on the landfill without prior notice. SCS will also supply assistance to the landfill staff for minor assignments such as pumping the leachate sumps and requested labor efforts. To address these types of efforts funds are included under this task to perform work as directed by the Solid Waste Director or his designee. Prior to conducting such effort the County will acknowledge with written direction via email.

GENERAL NOTE

Note that testing beyond the parameters discussed above is not included in this proposal, however, should it become necessary to test for parameters other than Appendix I or other existing State required parameters, SCS will provide an estimate of such costs to the County for approval prior to initiating those services. Additionally, should sampling and testing services be required at other County locations, the testing rates noted herein will be honored. Testing locations may be added or removed from this estimate at the direction of the County's Solid Waste Director or designate. Should the number of locations or parameters of testing be changed by more than 20%, SCS maintains the right to renegotiate the fees.

Should any of the wells need to be redeveloped SCS will provide a proposal to conduct this activity. With the notice to proceed the effort will be conducted upon availability of the County-approved drilling contractor.

SAMPLING FEES

Sampling fees are included in the rates referenced above. Sampling fees for special tests will be determined and agreed to with the County prior to the sampling event. Expedited laboratory analytical results, needed more quickly than the standard turn around, will incur additional charges.

Compensation

Compensation to the Contractor for services performed under this Task Order will be in accordance with the (lump sum or time and materials (*circle one*)) invoice method and shall be based upon the fees as set out in the Agreement.

SCS ENGINEERS, PC proposes to complete this Task for a fee of \$150,917. This fee, which is based on the assumptions provided in this Task Order proposal, shall not be exceeded without written authorization from the County. See Attachment 1 for the breakdown of the fees.

BUNCOMBE COUNTY BOARD OF COUNTY COMMISSIONERS	CONTRACTOR SCS ENGINEERS, PC
By: _____	By: <u>C. Ed Hilton, Jr</u>
(Signature)	(Signature)
_____	C. Ed Hilton, Jr. PE
(Printed Name)	(Printed Name)
_____	Vice President
(Title)	(Title)
_____	<u>10/22/18</u>
(Date)	(Date)

THIS INSTRUMENT HAS BEEN PRE-AUDITED IN THE MANNER REQUIRED BY THE LOCAL GOVERNMENT AND FISCAL CONTROL ACT

Finance Director

Approved as to form

County Attorney/County Staff Attorney

Attachment 1

New Landfill Sampling	Units	Unit Rate	Estimated Fees- 1 Year
TASK 1 - Semi-Annual Sampling/Testing			
Groundwater Monitoring Wells	54	\$414.00	\$22,356.00
Leachate Detection	14	\$327.75	\$4,588.50
Leachate Pond	2	\$527.75	\$1,055.50
Surface Water Locations	14	\$327.75	\$4,588.50
C&D Groundwater Wells	20	\$478.40	\$9,568.00
C&D Surface Water	4	\$374.75	\$1,499.00
Travel Blanks	20	\$69.00	\$1,380.00
Equipment Blanks	20	\$161.00	\$3,220.00
Subtotal			<u>\$48,255.50</u>
TASK 2 - Semi-Annual Reporting			
Semi-Annual Reports/Project Management	2	\$12,420.00	\$24,840.00
Carry over from prior contract	1	\$7,006.35	\$7,006.35
Subtotal			<u>\$31,846.35</u>
TASK 3 - Off-site Wells Sampling/Testing			
Off-Site Wells Sampling	72	\$109.25	\$7,866.00
Travel Blanks	7	\$69.00	\$483.00
Equipment Blanks	7	\$161.00	\$1,127.00
Reporting	1	\$18,600.00	\$18,600.00
Subtotal			<u>\$28,076.00</u>
TASK 4 - Engineering Services			
Labor/Hours/Reporting	1	\$31,240.00	\$31,240.00
Subconsultant/Site Maintenance	1	\$11,500.00	\$11,500.00
Subtotal			<u>\$42,740.00</u>
TOTAL Estimated fees for 1 Year Term			\$150,917.85