



PAT MCCRORY

Governor

DONALD R. VAN DER VAART

Secretary

LINDA CULPEPPER

Director

January 26, 2016

Ms. Genna Olson
ATC Associates Inc.
2725 East Millbrook Road, Suite 121
Raleigh, NC 27604

Re: Request for Proposal for Task Order: 265DP-13
Historic Topo Search/Berm Soil Sampling
Stedman Dump
Stedman, Cumberland County
ID# NONCD0000265

Dear Ms. Olson:

Please submit a task work plan and cost estimate to perform remedial investigation-contaminant delineation phase activities at the above referenced site. Conduct these activities in accordance with State Contract No. N13003S.

Investigation Goals: Conduct a historic topographic map search and review to determine site conditions prior to waste disposal activities. Collect soil samples from the Eastern and Western Berms located to the south of the waste disposal area.

Scope of work for Task Order 265DP-13:

- Prepare the work plan in accordance with ATC's approved standard operating procedures and include a schedule of daily activities.
- Submit an itemized cost estimate that identifies personnel and materials involved.
- Reference the most recent Guidelines for Addressing Pre-Regulatory Landfills and Dumps for details regarding procedures.
- Ensure personnel in the field are qualified to identify contaminated material and landfill waste and comply with OSHA-required health and safety training. Before task activities begin, photograph areas or objects that may be disturbed. If needed, photograph affected areas and objects, restoration efforts, and noteworthy items encountered during task activities. Submit these photographs upon completion of the activities, and a review will determine if any need to be included in the report.
- Collect GPS coordinates along the berm. Report coordinates in decimal degrees to the seventh order using the North American Datum of 1983 (NAD83) format and latitude and longitude using WGS 84 format. These coordinates will be tabulated and included as an appendix.



- The tabulated coordinates for the landfill perimeter should start at the northernmost point of the perimeter and be listed in a clockwise progression around the perimeter.
- Include background (light grey) topographic contour lines on figures detailing the Site and Site vicinity.
- For any invasive activities, provide a plan to properly manage investigation derived waste (IDW). If sampling results indicate non-hazardous IDW, spread within the waste disposal area. If sampling results indicate hazardous IDW, analyze containerized waste as required by waste hauler and include details of sampling and disposal of drums in the proposal. Remove all drummed waste and associated fencing from site within 90 days after field activities are concluded.
- For any field work, minimize the clearing of vegetative material to enable access to proposed sampling points. Using hand tools for clearing is the preferred method, otherwise an explanation must be provided for use of heavy equipment.
- Submit samples to a North Carolina-certified laboratory and analyze for the following parameters by the most current U.S. EPA Contract Laboratory Program Target Compound List: volatile organic compounds by SW-846 method 8260, 1,4-dioxane by Method 8260SIM, semi-volatile organic compounds by SW-846 method 8270, 14 metals by SW-846 method 6020, mercury by method 7471, ammonia by SM 4500, and nitrate and sulfate by EPA Method 300. Please note that any alternate method should be the U.S. EPA Method having the lowest detection limit and that at least achieves the detections equivalent to the 15A NCAC 2L standards or where these are not available, then federal maximum contaminant limits (MCLs). Soil analysis methods must meet the IHSB Preliminary Soil Remediation Goals Table.
- Note: once all contaminants are determined, laboratory analysis may be reduced to those positively identified contaminants.

Historic Topo Search and Review

- Conduct a historic topographic map search and review to determine site conditions prior to waste disposal activities to determine if disposal area was previously a “lowlands/wetlands” filled with waste.

Eastern and Western Berm Soil Investigation:

- Utilizing hand augers, advance six borings (SB-11 through SB-16) at the locations within the Eastern and Western Berms as indicated on the accompanying figure. Continuously log each boring and characterize the soil, and screen using a PID. Collect three soil samples for analysis from each boring: one at 1 foot below land surface, a second mid boring based upon PID measurements, and the third and from the base of the berm.
- Upon completion of task activities, submit field notes, photographs, and validated analytical results for review.
- Compile a brief letter/report presenting the results of the historic topo search and soil sampling activities. The letter/report will be entitled “Remedial Investigation – Historic Topographic Search and Berm Soil Sampling”.

The report is to contain the following items:

- Text, tables, and figures to adequately summarize task activities.
- A section concerning any variations from the work plan or your SOPs.



Provide the work plan and cost estimate by February 29, 2016. A task authorization to begin work will be issued based on the approved proposal. Do not proceed with tasks prior to receiving this authorization. If you have any questions or concerns, contact me at (919)707-8230.

Sincerely,

A handwritten signature in blue ink, appearing to read 'David P. Kwiatkowski', with a long horizontal flourish extending to the right.

David P. Kwiatkowski, L.G., Hydrogeologist
Division of Waste Management – NCDEQ

