



June 17, 2016

Mr. Zi-Qiang Chen, PhD, Environmental Engineer II
North Carolina Department of Environmental Quality
Division of Waste Management, Pre-Regulatory Landfill Unit
1646 Mail Service Center
Raleigh, North Carolina 27699-1646

Reference: **TASK ORDER 7961SUM Work Plan and Cost Proposal
Remedial Investigation Summary
Henderson Co. Landfill**
Hendersonville, Henderson County, NC
ID # NCD980557961
State Contract # N13001S
ESP Project No. E6-BN12.602.006

Dear Mr. Zi-Qiang:

ESP Associates, P.A. (ESP) is pleased to provide the attached cost proposal for Task Order 7961SUM to prepare a Remedial Investigation Summary for Henderson Co. Landfill (State ID # NCD980557961). This proposal was developed in accordance with the scope of work requested by the NCDEQ Pre-Regulatory Landfill Unit via a letter dated June 9, 2016.

Ms. Nora Zirps will be ESP's Project Manager for this task while quality control (QC) oversight will be provided by ESP's senior geologist, Mr. Chris Ward. Mr. William Bradner will be ESP's staff scientist during the office effort.

Subtask A: Work Plan and Cost Proposal Preparation

This letter represents ESP's work plan for preparation of the Remedial Investigation Summary for Henderson Co. Landfill. Preparation of this work plan involved the following activities:

- Development of the work plan text; and
- Preparation of the cost proposal.

Subtask B: Unit Meeting

ESP's Project Manager will meet with the Unit's Project Manager in Raleigh to discuss the results of the site investigation to confirm all exposure risks have been identified. Any data gaps identified during this meeting will be addressed under separate task order(s). The Remedial Investigation Summary Report will not be completed and submitted until data gaps, if any, are filled. During this meeting, the approach for reporting any unique site conditions will also be discussed.

Subtask C: Remedial Investigation Summary

ESP will prepare a report to be titled "Remedial Investigation Summary" that will serve as an executive summary of identified risks to be included in the site's Draft Remedial Action Plan. The report will include applicable text, figures and tables to briefly summarize the site's history and current conditions, and will summarize identified risks to human health and the environment posed by the physical characteristics of on-site waste and/or media sampling results compared to applicable standards (including adjusted soil remediation goals provided by the NCDEQ toxicologist). The Remedial Investigation Summary will utilize the Unit's current template and will include the following sections, as appropriate:

- 1.0 INTRODUCTION
- 2.0 SENSITIVE ENVIRONMENTS
- 3.0 GEOLOGY AND HYDROGEOLOGY
- 4.0 WASTE DISPOSAL AREA
- 5.0 MEDIA CHARACTERIZATION
 - 5.1 Soil and Sediment Characterization
 - 5.1.1 Soil and Sediment Remedial Goals
 - 5.1.2 Soil Sampling
 - 5.1.3 Sediment Sampling
 - 5.2 Water Characterization
 - 5.2.1 Groundwater Monitor Wells
 - 5.2.2 Potable Water Supply Wells
 - 5.2.3 Surface Water and Seeps
 - 5.3 Landfill Gas Characterization
- 6.0 REFERENCES
- 7.0 SOLE USE STATEMENT
- 8.0 CERTIFICATION

Media characterization results (for media of concern only) will be presented in figures (with imbedded remediation goal exceedances tables) to identify key results that are relevant to the potential Remedial Action Plan for the site. Naturally-occurring inorganic compounds found at concentrations within available published background levels will be excluded from these figures. Figures will also present topographic information, parcel boundaries, waste disposal area boundaries, groundwater contours, and groundwater and surface water flow directions, where applicable. Tables of media characterization results will not be included, with the exception of such items as landfill gas results from multiple monitoring events which identify variations over time.

If the attached Cost Proposal is satisfactory, please acknowledge with a written notice to proceed. All work will be performed in accordance with State Contract # N13001S. Should you have any questions, please do not hesitate to contact Nora Zirps at (336) 232-5213.

Sincerely,
ESP Associates, P.A.



Nora A. Zirps, PE
Project Manager



Christopher J. Ward, PG
Program Manager

Attachment:
Cost Proposal – Task Order 7961SUM

Subtask A - Work Plan Preparation

Senior	\$116 /hr x	0.5 hrs =	58.00
Project	\$100 /hr x	3 hrs =	300.00
Word Processor/Clerical	\$49 /hr x	0.5 hrs =	24.50

Subtotal - Subtask A \$382.50

Subtask B - Unit Meeting

Labor

Project	\$100 /hr x	8 hrs =	800.00
Mileage	\$0.55 /mi x	172 miles =	94.60
Parking	\$6 /ea x	1 each =	6.00

Subtotal - Subtask B \$900.60

Subtask C - Remedial Investigation Summary

Labor

Senior	\$116 /hr x	2 hrs =	232.00
Project	\$100 /hr x	16 hrs =	1,600.00
Staff	\$85 /hr x	48 hrs =	4,080.00
Draftsperson/CADD	\$65 /hr x	12 hrs =	780.00
Word Processor/Clerical	\$49 /hr x	2 hrs =	98.00

Subtotal - Subtask C \$6,790.00

Total - Task Order 7961SUM \$8,073.10