AMENDMENT NO. 4
TO PROFESSIONAL SERVICES CONTRACT FOR
BONNEVILLE COUNTY LANDFILL
TIER II Landfill Gas Sampling, Analysis and Reporting

This amendment, agreed upon by Bonneville County (Client) and Great West Engineering (Engineer), is for the purpose of modifying the said agreement dated April 6, 2012 and previous amendments for professional services as follows:

SCOPE OF SERVICES
The general scope of work included in this contract amendment includes engineering services required for sampling, analysis and reporting of Tier II landfill gas emissions. The County is required to report Tier II gas emissions at the landfill under the Federal Clean Air Act. The following tasks detail the work included in this contract amendment.

TASK 1 – ON-SITE SAMPLING

The Consultant shall award a contract to a subcontractor to conduct the Tier II sampling at the landfill. The sampling subcontractor shall be responsible for the successful collection of gas samples from 20 points on the portions of the landfill underlain by waste placed more than two years previously. Great West Engineering will coordinate the timing of the sampling event with the sampling contractor and the contract laboratory to insure that sampling canisters are available and are shipped to the laboratory properly. Great West will also coordinate and communicate with the County during the scheduling and sampling phases of the project.

Federal regulations require two sampling points per hectare for facilities with less than 25 hectares of in-place waste. The Bonneville County landfill testing area consists of approximately 10 hectares, and so will require 20 sampling points. Three samples can be averaged in a single sample container, so the contractor will use at least 7 canisters for sample collection.

No field time is anticipated for Great West Engineering.

TASK 2 – LABORATORY ANALYSES

Great West Engineering’s contractor will retain an analytical laboratory to analyze the gas samples per EPA Method 25C per 40 CFR 60.745 Appendix A. Great West will provide oversight of the shipping procedures, turnaround time at the laboratory, and reasonability of the analytical results. Sample collection, handling and shipping, along with the laboratory costs, will be the responsibility of the sampling contractor.
TASK 3 – DATA EVALUATION, MODELING AND REPORTING

Great West Engineering will review the data validation records of the NMOC Tier II analytical results provided by the laboratory to determine if the testing process falls within acceptable parameters. Great West will then apply the field data along with waste acceptance records provided by Bonneville County to a U.S. Environmental Protection Agency-approved mathematical model to predict the future non-methane landfill gas emissions. Most of the non-analytical data required by the model are currently available to Great West, or are available from the landfill records. Some of the model input information may have to be researched. Great West Engineering will assemble the raw data and modeling results, and report them to the Idaho Department of Environmental Quality as required by federal regulation.

COMPENSATION

Client shall pay Great West Engineering as compensation for Professional Services as follows:

Task 1 – On-site Sampling $12,500
Task 2 – Laboratory Analysis $4,000
Task 3 – Data Evaluation, Modeling and Reporting $6,500

Total Amendment No. 4 $23,000

This amendment increases the previous contract amount from $511,800 to $534,800.

Bonneville County and Great West Engineering hereby agree to this amendment.

GREAT WEST ENGINEERING, INC.

Daniel M. McCauley, PE
President

Date: Dec. 1, 2016

BONNEVILLE COUNTY

Authorized Signature
Title: 12-14-16
Date: 12-14-16