AMENDMENT NO. 3
TO PROFESSIONAL SERVICES CONTRACT
FOR BONNEVILLE COUNTY LANDFILL

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 WORK
The general scope of work included in this contract amendment includes engineering services required for verification, certification, and approval of Phases 1 and 2 Closures. The following tasks detail the work included in this contract amendment.

TASK 12 - PHASE 1 CLOSURE VERIFICATION AND CERTIFICATION
This task includes closure verification work for the Phase 1 Closure Area. Great West Engineering will prepare a Work Plan for verification of Phase 1. The Work Plan will describe work required to determine the closure project was constructed properly in accordance with the Final Cover design approved by Idaho DEQ. This Work Plan will include a letter to DEQ and maps showing the location of the proposed work area. The Engineer will obtain approval from the County prior to submitting to DEQ. The Work Plan will then be submitted to DEQ for approval.

Once the Work Plan has been approved, Great West Engineering will perform a field investigation. We will propose to DEQ in the Work Plan to dig two test pits per acre. The County will dig approximately 15 to 16 test pits over the Phase 1 Closure Area. The County is responsible to furnish equipment and staff to dig and backfill the test pits. Great West Engineering will monitor the work to dig the test pits. Our costs do not include excavation equipment or staff to dig the pits.

The test pits will be dug to the top of waste, logged by Great West Engineering, and the depth of soil and material type will be recorded. The test pits will be backfilled after the soils have been classified.

Great West will take four soil samples of the ET layer for a wet sieve analysis and one composite soil sample for a gradation/hyrometer test from each of the test pits. One sample will be tested for saturated hydraulic conductivity, moisture retention characteristics, and effective porosity. Each completed test pit will be located with GPS so the location of each test pit can be identified on the updated topographic map.

Great West will prepare a report on the closure determination which will document the locations of the pits, test pit logs, final cover depth, soil types, gradation testing, and laboratory permeability testing. The report will include a drawing showing the locations of the test pits, closure boundary and the topography of the closed area. Based on these field investigations, the Engineer will either certify the final closure to DEQ or make recommendations to the County for corrective action to meet the DEQ’s requirements for closure. One of our Idaho-licensed professional engineers will certify the project to the DEQ. We will provide a draft of the certification for the County’s review prior to submittal to DEQ. Likewise, any proposed corrective actions will be submitted to the County for review and approval prior to submitting to the DEQ.
Great West proposes conducting Task 12 on an hourly rate basis not to exceed $12,000. This includes a budget of $3,500 for laboratory soil testing.

**TASK 13 - PHASE 2 CLOSURE INSPECTION AND CERTIFICATION**

This task includes closure certification work for the Phase 2 Closure Area. Great West Engineering will prepare a Work Plan for certification of Phase 2. The Work Plan will describe work required to determine the closure project was constructed properly in accordance with the Cover design approved by Idaho DEQ. This Work Plan will include a letter to DEQ and maps showing the location of the proposed work area. The Engineer will obtain approval from the County prior to submitting to DEQ. The Work Plan will then be submitted to DEQ for approval.

Once the Work Plan has been approved, Great West Engineering will perform up to three field inspections during the construction of the Phase 2 Closure. The depth of cover will be observed and recorded and Great West Engineering will test the compaction of the ET layer with a certified nuclear densometer at a rate of five tests per acre.

Great West will take five soil samples of the ET layer for a wet sieve analysis and two composite soil samples for a gradation/hydrometer test. One sample will be tested for saturated hydraulic conductivity, moisture retention characteristics, and effective porosity.

Great West will survey the cover area after construction with GPS. Great West will prepare a report on the closure certification which will document the final cover depth, gradation testing, and laboratory permeability testing. The report will include record drawings showing the closure boundary and the topography of the closed area. One of our Idaho-licensed professional engineers will certify the project to the DEQ. We will provide a draft of the certification for the County’s review prior to submittal to DEQ. Likewise, any proposed corrective actions will be submitted to the County for review and approval prior to submitting to the DEQ.

Great West proposes conducting Task 13 on an hourly rate basis not to exceed $17,000. This includes a budget of $4,000 for laboratory soil testing.

**COMPENSATION**

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

- Task 12 – Phase 1 Closure Verification and Certification $12,000
- Task 13 – Phase 2 Closure Inspection and Certification $19,500

**Total Amendment No. 3** $31,500

This amendment increases the previous contract amount from $480,300 to $511,800.

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

**GREAT WEST ENGINEERING, INC.**

Daniel M. McCauley, PE
President

Date

**BONNEVILLE COUNTY**

Authorized Signature
Title

Date

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