

**J.E. Falkenberg Ltd.**  
**1256 Main St.**  
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March 8, 1995

Mr. G. Carriere, P.Eng.  
Regional Public Health Engineer  
1665 Grant Avenue  
Nanimo, B.C. V9S 5K7

Dear Sir,

Re: Proposed 1000 lgal, Two Compartment, Concrete Septic Tank.

This letter is to advise you that the tests requested in your letter of January 11, 1995 to Mr. J. Ripley, have been carried out under my supervision, with the following results:

**Verification of Tank Dimensions**, drawings enclosed.

Measured and rechecked.

**Result: Verified all dimensions.**

**Verification of Concrete Strength**, as sampled at the time of prototype manufacture.

25 Mpa

**Result: To be Verified.**

**Tank Load Test**

The tank was loaded with 10 concrete blocks weighing 1000 lb. (453.60 KG) each placed on top of sand bed over the top of the septic tank. A fiberglass cylinder had been wrapped around the periphery of the tank and held in place with tie-down straps. The weight of the sand was 2733.69 lb. (1240 KG) net(reference West Hill Aggregates Ltd. Invoice 10-021239) The maximum area of the tank is 46.16 sq.ft (4.29m<sup>2</sup>)(external); total weight 297.52 lb./sq.ft. (1346.39 KG/m<sup>2</sup>)

Total mass = W    W=2000 \*A\*b

A=plan area 4.289m<sup>2</sup>

b=0.6m

therefore W=5147 KG    actual load used 5776 KG

The load was left in place for 1 hour and ten minutes. Afterwards the interior and exterior surfaces were examined for signs of stress or damage.

**Result: Satisfactory, no detected cracks or signs of damage.**

**Verification of Design Liquid and Scum Volumes**

974 lgal (4430 l) working volume

97.5 lgal (443 l) scum volume

Total volume= 1124.7 lgal (5113 l)

Baffle: 52.8 lgal (240l)

**Leak Test**

Filled Sunday February 26, 1995.

No fall through March 3, 1995.

**Result: Satisfactory**

I trust this is information required. Should you have any questions, please do not hesitate to contact the undersigned.

Yours faithfully,



J.E. Falkenberg, P.Eng.

