

December 4, 2020

Mr. Mike Consalvi
Ecobeton USA
4894 Sparks Blvd.
Sparks, NV 89436

Phone: 800-723-2198
Email: mconsalvi@ecobeton-usa.com

Subject: **Updated Report of Results for Permeability Testing**
Product Name: Vetrofluid
TEC Services Project No: TEC 20-1617
TEC Laboratory No: 20-769

Dear Mr. Consalvi:

SGS TEC Services is an AASTHO R18, ANS/ISO/IEC 17025:2005 and Army Corp of Engineers accredited laboratory. SGS TEC Services is pleased to present this updated report of our test results on the submitted products designated as “Vetrofluid”. Our services were performed in accordance with the terms and conditions of our Service Agreement TEC-PRO-20-1617. The test results presented only pertain to the samples tested.

A total of three 6” x 12” cylinder specimens were made at to our Lawrenceville, GA facility in June of 2020. The test specimens had the surface to be tested coated with Vetrofluid once they reached an age of 28 days. The Vetrofluid was cured for two weeks before the specimens started testing.

Ecobeton requested the testing be performed in accordance with the Army Corps of Engineers CRD-C 48-92 - *Standard Test Method for Water Permeability of Concrete*. The cylindrical test specimens were tested at a pressure of 200psi (13.6 atmosphere) for a length of 10 days. Upon completion of the testing the specimens were split open and the depth of the water penetration was measured. Specimen information and test results are reported in Table 1. Photos of the testing as well as the depth of water penetration results are attached in Photos 1-5.

Table 1 – Specimen Information & Depth of Water Penetration Test Results

Specimen #	20-769-1*	20-769-2*	Average
Client Sample ID	Sample #1	Sample #2	N/A
Concrete Age at Time of Testing (days)	42	42	42
Vetrofluid Age at Time of Testing (days)	14	14	14
Diameter (in.)	6.00	6.00	6.00
Length (in.)	6.00	6.00	6.00
Flow Rate for Last 5 Days of Testing (ft ³ /sec):	0.089	0.108	0.098
Water Permeability (ft ³ /sec)/ft ² (ft head/ft):	4.84 E-12	5.89 E-12	5.36 E-12
Total Change in Volume of Water based on Readings (cm ³)	28.66	25.11	26.88
Total Volume of Water Passed through Specimen (cm ³)	0.0	0.0	0.0
Post Testing Measure Depth of Penetration (inches)	1.0	1.0	1.0

*Note: Specimen surfaces were coated with the Vetrofluid product by Ecobeton representative Mike Consalvi when the specimens reached an age of 28 days.

SGS TEC Services appreciates the opportunity to provide our professional services for this important project. If you have any questions regarding this report, or if we can be of further assistance please contact us at 770-995-8000.

Sincerely,

SGS TEC SERVICES, INC.



Chip P. Sherwood Jr.
Project Manager



Shawn P. McCormick
Laboratory Principal

Attachments: Photos 1-5 – CRD C-48 Testing & Depth of Penetration Photos

Photo #1 – Cylinder Specimens with Vetrofluid Freshly Applied



Photo #2 – CRD C-48 Testing Set-up



Photo #3 – Pressure Gauge Showing Applied Pressure



Photo #4 – 20-769-1 Test Sample #1 Showing Depth of Penetration

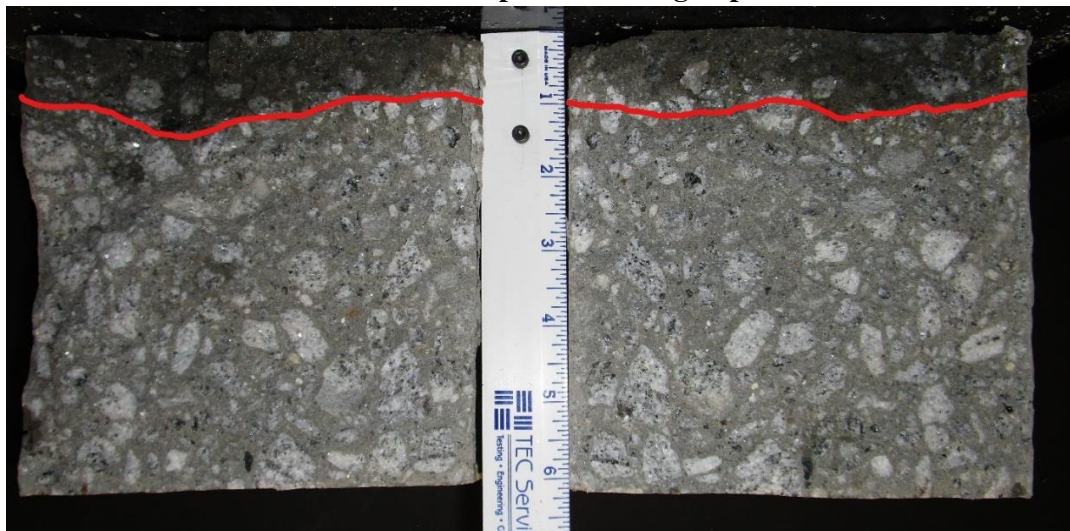


Photo #5 – 20-769-2 Test Sample #2 Showing Depth of Penetration

