

# Concrete Test Report

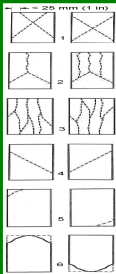
**Project Number:** MH19-1005  
**Set Number:** 4  
**Cylinders:** 4  
**Report Date:** 06-Jun-19  
**Sampled By:** EGC/DS  
**Tested By:** EGC/DS  
**Sample Cast:** 11-Apr-19 10:50am  
**Sample Transported:** 12-Apr-2019 10:25am  
**Sample Received:** 12-Apr-19 12:00pm  
**Copies To:** CLIENT

**To:** Morris Industrial Services Ltd.  
 Western Infrastructure Renewal Inc.  
 953 Hudson Road  
 Parker Industrial Park  
 RM of Sherbrook, SK S4K 0A4

Attention Curt LaBlonde

**Project:** Bridge Highway 21 over Belanger Creek, SK

## LABORATORY TEST DATA

| Cylinder Number | Tested By | Test Date | Age at Test (Days) | Diameter (mm) | Mass (g) | Length (mm) | Max. Load (Kn) | Area (mm²) | Strength (MPa) | Fracture Type |  |
|-----------------|-----------|-----------|--------------------|---------------|----------|-------------|----------------|------------|----------------|---------------|-------------------------------------------------------------------------------------|
| 540             | BB        | 18-Apr-19 | 7                  | 101.6         | 3892     | 200.0       | 226.11         | 8107.3     | 27.9           | 1             |                                                                                     |
| 541             | DS        | 9-May-19  | 28                 | 101.5         | 3885     | 199.0       | 326.4          | 8091.4     | 40.3           | 1             |                                                                                     |
| 542             | DS        | 9-May-19  | 28                 | 101.6         | 3876     | 199.0       | 319.8          | 8107.3     | 39.4           | 1             |                                                                                     |
| 543             | DS        | 06-Jun-19 | 56                 | 101.7         | 3880     | 199.0       | 350.6          | 8123.3     | 43.2           | 1             |                                                                                     |

### SPECIFICATIONS

**Specified Strength** 25 MPa @ 28 days  
**Specified Slump(mm)** 80±20  
**Specified Air(%)** 5-7  
**Admixture** AE  
**Class of Concrete** HSe

### FIELD TEST DATA

**Measured Slump(mm)** 45 **Material Temp(°C)** 15.0  
**Measured Air(%)** 5.8 **Air Temp(°C)** 3.0  
**Curing Conditions** Site  
**Initial Curing Temp (°C)**  
 Min. 11.3 Max. 21.3  
**Mould** 100mm Plastic  
**Element**  
**Location** Piles  
 South end, East side piles

### TICKET INFORMATION

**Supplier** Koncrete  
**Batch Time** 9:00 am  
**Truck Number** 119  
**Mix Number** 25MPa HSE Conc W/Air  
**Ticket Number** 19579  
**Load Volume (m³)** 4.0  
**Cumm. Volume (m³)** 4.0  
**Ordered Strength (MPa)** 25 MPa  
**Ordered Slump (mm)** 80±20  
**Ordered Air (%)** 5-7  
**Water Added** No  
**Authorized By** NA  
**Cement Type** HSE  
**Max. Agg. Size (mm)** 20 mm

### COMMENTS

**Weather** CLEAR  
**Placement** Chute **Review By** CA  
**CURING BOX LOCATION:** Box 1, Site office  
**REMARKS:** Reported to WSP  
**DEVIATION:** No

GeoSpec Materials Testing Inc.