

BOWSER-MORNER, INC. - CONSTRUCTION MATERIALS LABORATORY
2007 Laboratory Testing Fees - Concrete and Concrete Aggregates
AASHTO/ISO 17025 ACCREDITED

Miscellaneous Fees

Sampling - Time	\$58.00/Hour
Sampling - Mileage	\$0.50/Mile
Consultation, Senior Geologist/Engineer	\$120.00/Hour

Concrete Mix Design

1. Complete Mix Design - Includes: Aggregate Gradation, Specific Gravity, Five Cylinders Per Mix	\$690.00/1st mix \$500.00/ea addl. mix
2. Verification Mix - Submitted by Client (5 Cylinders)	\$500.00/mix
3. Water Cement Ratio Curve (3 Points)	\$1400.00/set
4. Time of Set, Penetration Resistance (C 403)	\$160.00/set
5. Mix Design Using Retarder w/ Setting Time	\$80.00/Hour
6. Additional Cylinders in Mix Design	\$36.00 each
7. Restrained Expansion Type K Concrete (C 878)	\$800.00/set of 3

Concrete Physical Analysis

8. Length of Cores - Vernier Method (C174)	\$40.00
9. Specific Gravity, Absorption, Voids (C642)	\$50.00
10. Compressive Strength	
a. Cylinders (C 39)	\$17.00
b. Drilled Cores-Trimmed & Tested (C 42)	\$56.00
c. Modulus of Elasticity (C 469)	\$90.00
11. Flexural Strength	
a. Center Point Load (C 293)	\$48.00
b. Third Point Load (C 78)	\$48.00
c. Flexural Toughness (C 1018)	\$1,000.00
12. Splitting Tensile Strength (C 496)	\$80.00
13. Creep in Compression	
a. Creep Test Only-includes 5 control & 5 test specimens (C 512)	\$3200.00/set
b. AWWA Pipe Certification-includes C512, C192, C39, C469, Report	\$4600.00/mix
14. Abrasion Resistance by Sandblasting (C 418)	\$1,000.00
15. Moisture Content	\$18.00
16. Concrete Durability Factor Rapid Freeze-Thaw (C 666 A & B, CRD-C 114)	
a. Procedure A, USACE, 300 cycles, Dur. Factor	\$2,300.00
b. Procedure B, DOT, 350 cycles, Expansion & DF	\$2,300.00
c. each additional beam over 3 per set above	\$500.00
17. Drying Shrinkage (C 157)	\$560.00
18. Chloride Ion Permeability (C 1202)	\$180.00

Concrete Physical Analysis

19. Water Soluble Chloride Ion (C 1218)	\$180.00
20. Cut/Prep Core Specimen	\$60.00
21. Petrographic Examination (C 856)	Quote

Basic Concrete Aggregate Tests (for complete aggregate schedule, see 2007 Laboratory Testing Fees-Mineral Aggr.)

22. Sieve Analysis; Gradation (C 136)	
a. Coarse Aggregate (6 Sieves)	\$68.00
b. Fine Aggregate (6 Sieves)	\$68.00
23. Material Passing No. 200 Sieve/Decantation (C 117)	\$58.00
24. Unit Weight (C 29)	\$62.00
25. Los Angeles Abrasion (C131/C535)	\$134.00
26. Specific Gravity and Absorption (C127/128)	\$86.00
27. Complete Quality Analysis (C 33) Includes: Soundness, LA Abrasion, Deleterious Substances, Gradation, Unit Wt, Specific Gravity, % Crushed, etc. See "Mineral Aggregates Fee Schedule"	
a. Coarse Aggregate (20% Discount)	\$1,050.00
b. Fine Aggregate (20% Discount)	\$760.00
c. DOT Parameters, Additional	\$125.00
28. Alkali Silica Reactivity (ASR)	
a. 6 Month Mortar Bar Method (C 227)	\$890.00
b. Chemical Method (C 289)	\$760.00
c. 14 Day Mortar Bar Method (C 1260)	\$680.00
d. Remediation Trials with Fly Ash, Slag (C 1567)	\$800.00
e. FFA Potassium Acetate Method (De-Icer) (C 1260)	\$900.00
f. 12 Month(+) Prism Method (C 1293)	\$1,800.00
g. 13 Week ICAR Modified (C 1293 modified)	\$680.00
29. Alkali Carbonate Reactivity (ACR)	
a. Rock-Cylinder Method (C 586)	\$1,000.00
b. Prism Method (C 1105)	\$1,800.00
30. Petrographic Examination (C 295)	\$1,600.00

Supplies

31. Cylinder Molds	\$50.00/case
32. Retaining Caps	\$210.00/set
33. Pad Caps	\$25.00 each
34. Slump Rod & Cone	\$60.00/set
35. Capping Compound	\$60.00/bag

Mailing Address:

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P.O. Box 51
Dayton, Ohio 45401-0051
Attn: Department 21

Shipping Address:

Bowser-Morner, Inc.
4518 Taylorsville Road
Dayton, Ohio 45424
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