

BOWSER-MORNER, INC. - CONSTRUCTION MATERIALS LABORATORY
2011 Laboratory Testing Fees - Concrete and Concrete Aggregates
AASHTO/ISO 17025 ACCREDITED • AASHTO R 18 ACCREDITED • USACE VALIDATED



Miscellaneous Fees

Sampling - Time	\$60.00/Hour
Sampling - Mileage	\$0.60/Mile
Consultation, Senior Geologist/Engineer	\$125.00/Hour

Concrete Mix Design

1. Complete Mix Design - Includes:	\$710.00/1st mix
Aggregate Gradation, Specific Gravity,	\$510.00/ea
Five Cylinders Per Mix (standard 0.1 cu yd trial mix)	addl. mix
2. Verification Mix - Submitted by Client (5 Cylinders)	\$510.00/mix
3. Water Cement Ratio Curve (3 Points)	\$1440.00/set
4. Time of Set, Penetration Resistance (C 403)	\$170.00/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)	\$850.00/set of 3
8. Bleeding Test - as part of mix design (C 232)	\$100.00
9. Concrete Mix Water Proof Test, (C 1602), incl control & test mixes, time of sets, strengths, water sp gr, & % solids	\$1,360.00

Concrete Physical Analysis

10. Length of Cores - Vernier Method (C174)	\$42.00
11. Specific Gravity, Absorption, Voids (C642)	\$52.00
12. 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
13. Flexural Strength	
a. Center Point Load (C 293)	\$48.00
b. Third Point Load (C 78)	\$48.00
14. Splitting Tensile Strength (C 496)	\$80.00
15. Creep in Compression	
a. Creep Test Only-includes 5 control & 5 test specimens (C 512)	\$3280.00/set
b. AWWA Pipe Certification-includes C512, C192, C39, C469, Report	\$4800.00/mix
16. Abrasion Resistance by Sandblasting (C 418)	\$1,000.00
17. Moisture Content	\$18.00
18. Concrete Durability Factor Rapid Freeze-Thaw (C 666 A & B, CRD-C 114)	
a. Procedure A, USACE, 300 cycles, Dur. Factor	\$2,400.00
b. Procedure B, DOT, 350 cycles, Expansion & DF	\$2,400.00
c. each additional beam over 3 per set above	\$500.00
19. Drying Shrinkage - set of 3 prisms (C 157)	\$560.00
20. Chloride Ion Permeability (C 1202)	\$180.00
21. Chloride Ion Penetration (T 259)	\$2000.00/ set of 3
22. Scaling Resistance - 50 cycles (C 672)	\$2000.00/ set of 3
23. Cut/Prep Core Specimen	\$60.00
24. Petrographic Examination (C 856)	Quote

Concrete Chemical Analysis

25. Acid Soluble Chloride Ion (C 1152)	\$180.00
26. Water Soluble Chloride Ion (C 1218)	\$180.00
27. Acid Soluble Chloride Ion (T 260, sec. 5.2)	\$180.00
28. Water Soluble Chloride Ion (T 260, sec. 5.3)	\$180.00

Basic Concrete Aggregate Tests (for complete aggregate schedule, see 2011 Laboratory Testing Fees-Mineral Aggregates)

29. Sieve Analysis; Gradation (C 136)	
a. Coarse Aggregate (6 Sieves)	\$70.00
b. Fine Aggregate (6 Sieves)	\$70.00
30. Material Passing No. 200 Sieve/Decantation (C 117)	\$60.00
31. Unit Weight (C 29)	\$64.00
32. Los Angeles Abrasion (C131/C535)	\$140.00
33. Specific Gravity and Absorption (C127/128)	\$88.00
34. 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)	\$1,150.00
b. Fine Aggregate (20% Discount)	\$780.00
c. DOT Parameters, Additional	\$150.00
35. Alkali Silica Reactivity (ASR)	
a. 6 Month Mortar Bar Method (C 227)	\$1,100.00
b. Chemical Method (C 289)	\$850.00
c. 14 Day Mortar Bar Method (C 1260)	\$850.00
d. Remediation Trials with Fly Ash, Slag (C 1567)	\$850.00
e. FAA EB 70 Pot. Acetate Method (De-Icer) (C 1260)	\$950.00
f. 3-Point Remediation Curve (C1567)	\$2,300.00
g. 12 Month(+) Prism Method (C 1293)	\$2,100.00
h. 13 Week ICAR Modified (C 1293)	\$1,100.00
i. 3-Point Remediation Curve (C 1293)	\$5,200.00
36. Alkali Carbonate Reactivity (ACR)	
a. Rock-Cylinder Method (C 586)	\$1,100.00
b. Prism Method (C 1105)	\$2,000.00
37. Petrographic Examination (C 295)	
a. Coarse Aggregate	\$1,800.00
b. Fine Aggregate	\$2,200.00

Supplies

38. Cylinder Molds	\$60.00/case
39. Retaining Caps	\$230.00/set
40. Pad Caps	\$30.00 each
41. Slump Rod & Cone	\$80.00/set
42. Capping Compound	\$80.00/bag

Mailing Address:

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