



STANDARD SCHEDULE OF FEES AND CHARGES

All prices are effective January 1, 2017 - December 31, 2017 and are subject to change without notice.

HWA GeoSciences Inc. holds accreditations from the American Association of State Highway and Transportation Officials (AASHTO R-18) and the American Association for Laboratory Accreditation (A2LA). We participate in the sample proficiency program from AMRL for soil classification and compaction, coarse and fine aggregates, Hot Mix Asphalt, California Bearing Ratio, and CCRL for concrete.

PROFESSIONAL SERVICES

Request Labor Rate Schedule

EXPENSES

All Outside Expenses

(i.e., airfare, subsistence, equipment rental, materials, reproduction, etc.) Cost plus 15%
 Drilling & Chemical Laboratory Subcontractors....Cost plus 15%

Mileage (per mile) Current IRS Rate
 Tests Conducted on Contaminated Soils..... 20% surcharge
All contaminated soils will be returned to client for disposal

Special Sample Prep (including sample remolding, rock crushing, etc.)..... \$80/Hour
All Samples will be disposed of within 30 days of Final Report unless arrangements are made to return to the client.

LABORATORY TESTS

Soil Laboratory Tests

Atterberg Limits

Liquid Limit and Plastic Limit (ASTM D 4318)
 One Point \$120.00
 Three Point \$165.00

California Bearing Ratio (ASTM D 1883)
(Requires Moisture/Density Relationship Test)
 One Point \$225.00
 Three Point \$525.00

Consolidation Test Incremental Loading (ASTM D 2435)
 9 Loads, 0.125 KSF to 32 KSF, 4 Unloads \$650.00
 24 hour loads for Secondary Compression \$950.00
 Each Additional Load \$55.00

Consolidation Test, Controlled Strain (ASTM D 4186).... \$650.00

Grainsize Analysis

Combined Analysis (ASTM D 422) \$230.00
 Hydrometer Analysis (ASTM D 422)..... \$170.00
 Passing #200 Sieve (ASTM D 1140)..... \$55.00
 Sieve Analysis-Wet (ASTM D 422) \$95.00

Moisture/Density Relationship

Proctor - Cohesive (ASTM D 698, D 1557) \$230.00
 Proctor - Granular (ASTM D 698, D 1557) \$215.00

Moisture Content w/Description..... \$20.00

One-Dimensional Swell (ASTM D 4546) \$625.00

Organic Content Test (ASTM D 2974)..... \$65.00

Permeability Tests

Permeability of Granular Soils (ASTM D 2434)..... \$285.00
 Falling Head Test (WSDOT 605)..... \$225.00
 Triaxial with Back Pressure (ASTM D 5084) \$450.00
 (6-in diameter) \$500.00

LABORATORY TESTS (Continued)

Permeability Tests (Con't)

Estimate of Effective Porosity \$545.00
 Relative Density (ASTM D 4253 / D 4254) \$375.00
 Shelby Tube Extrusion and Sample Description..... \$40.00
 Soil Resistivity & pH (WSDOT 417)..... \$115.00
 pH Only \$35.00
 Resistivity Only..... \$90.00
 Specific Gravity Test (ASTM D 854) \$80.00

Strength Testing

Direct Shear Strength (per point) (ASTM D 3080)... \$170.00
 Triaxial (c-u) per specimen (ASTM D 4767) \$550.00
 Triaxial (c-u) Staged..... \$1,350.00
 Triaxial (u-u) (ASTM D 2850) \$215.00
 Triaxial (c-d) (ASTM D 7181) *Inquire for availability*
 Compressive Strength (ASTM D 2166)..... \$120.00

Unit Weight

Cohesive Soil by Waxing (USCOE) \$95.00
 Percent of Solids Calculation \$20.00
 Porosity (includes specific gravity/unit weight) \$100.00
 Soil in Ring (ASTM D 2937) \$40.00
 Soil in Shelby Tube (ASTM D 2937) \$45.00

Visual Soil Classification \$16.00

Aggregate Quality Tests

Clay Lumps and Friable Particles (ASTM C 142) \$90.00
 Degradation Test (WSDOT 113) \$230.00
 Fracture Face Count (WSDOT 103) \$45.00
 Flat and Elongated (ASTM D 4791) \$50.00
 Grain Size (ASTM C 136, C 117) \$110.00
 Los Angeles Abrasion (ASTM C 131, C 535) \$195.00
 Organic Impurities (ASTM C 40)..... \$70.00
 Percentage of Material Passing #200 Sieve (ASTM C 117) \$55.00
 Sand Equivalent (ASTM C 2419) \$95.00
 Soundness Using MgSO₄ (ASTM C 88)..... \$400.00
 Specific Gravity Test

Coarse Aggregate (ASTM C 127) \$75.00
 Fine Aggregate (minus #4 mesh) (ASTM C 128)..... \$110.00
 Unit Weight by Dry Rodding (ASTM C 29) \$65.00
 Uncompacted Voids Content of FA (ASTM C1252) \$120.00

Laboratory Trial Batch programs available upon request for Full-Depth Reclamation, soil-lime, soil-cement, and soil-co-polymer amendment.

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Concrete and Masonry Tests

Compression Testing of Concrete Cores (includes trimming) (ASTM C 42, C 513)	\$90.00
Compression Testing of Concrete Cylinders (ASTM C 39)	\$25.00
Compression Testing of Lightweight Concrete Cylinders	\$80.00
Compression Testing of Grout and Mortar Specimens (per specimen) (UBC 21-18, 21-16)	\$25.00
Concrete Beam Flexural Strength Test (ASTM C 78)	\$90.00
Concrete Cylinder Molds	\$2.50
Concrete Cylinders Sampled and Cured (not tested).....	\$25.00
Density Test	
Concrete Cylinders	\$35.00
Light Weight Concrete Cylinders	\$80.00
End Trimming of Samples (per specimen)	\$20.00
Splitting Tensile Strength Test (ASTM C 496).....	\$90.00
Shotcrete Panel (cut three cores & compression test)..	\$350.00

Asphaltic Concrete Tests

Bitumen Content by Ignition	
Ignition only (ASTM D 6307)	\$95.00
with Gradation (ASTM D 5444, D 6307)	\$160.00
Oven Correction Factor (per point).....	\$95.00
Bulk Specific Gravity and Density - SSD Method (per specimen) (ASTM D 2726).....	\$50.00
Bulk Specific Gravity and Density - Wax Method (per specimen) (ASTM D 1188).....	\$90.00
Marshall Stability & Flow Determination (3 specimens) (ASTM D 6927)	\$500.00
Percent Air Voids in Compacted or Open Bituminous Mixtures (ASTM D 3203).....	\$150.00
Rice Density (WSDOT 705)	\$95.00
TSR	\$550.00

Rock Tests

Abrasion Resistance (ASTM C 535).....	\$200.00
Ethylene Glycol Accelerated Expansion	\$220.00
Riprap Soundness (ASTM D 5240)	\$400.00
Specific Gravity and Absorption (ASTM C 127).....	\$75.00
Unconfined Compressive Strength (Without Strain)	\$100.00
Splitting Tensile Strength of Rock Cores (10 Discs) (ASTM D 3967)	\$225.00

EQUIPMENT CHARGES

Labor will be charged in addition to equipment charges

Air Filters for Development (per day)	\$50.00
BK Development Pump/Surge Block (per day)	\$20.00
Bolt Tension Calibrator (per day).....	\$50.00
Carbon Filter (per day)	\$50.00
Coating Thickness Gauges (per day)	\$25.00
Combustible Gas Tech Meter (GT 302 / 3220)	
Per day	\$100.00
Per week	\$300.00
Coring Equipment Charge	Request Schedule

Data Logger and Transducers

Per day	\$150.00
Per week	\$500.00
Dissolved Oxygen Meter	
Per day	\$95.00
Per week	\$300.00
Falling Weight Deflectometer (Hourly Rental)	
0-8hrs	\$175.00
8-40hrs.....	\$100.00
40+hrs	\$50.00
Double Ring Infiltrometer.....	\$50.00
Flow Monitoring Set	
Per day	\$105.00
Per week	\$400.00
Geomembrane Tensiometer (per day)	\$100.00
Grundfos Redi Flow II Pump and Generator	
Per day	\$100.00
Per week	\$300.00
Landfill Gas Monitoring Equipment (GEM 500)	
Per day	\$95.00
Per week	\$300.00
Level and Stadia Set.....	\$25.00
Nuclear Density Gauge (per day)	\$30.00
Per month.....	\$300.00
Thin Lift Gauge (per day).....	\$60.00
Per month.....	\$600.00
Peristaltic Sampling Pump	
Per day	\$50.00
Per week	\$90.00
pH-Conductivity Temperature Meter	
Per day	\$40.00
Per week	\$100.00
Photoionization Detector (Mini Rae / HNU / Microtip)	
Per day	\$100.00
Per week	\$300.00
QED Bladder Pump Controller	
Per day	\$50.00
Per week	\$90.00
Safety Equipment	
Level D (solvex gloves, disposable suit).....	\$25.00
Level C2 (above plus respirator)	\$50.00
Level C1 (above plus chemical suit)	\$95.00
Level B (above plus SCBA).....	\$300.00
Sensidyne Monitoring Equipment (does not include tubes) .	\$15.00
Sediment Coring or Soil Sampling Kit (does not include shelby tubes) (per day).....	\$50.00
Torque Wrench (per day)	\$25.00
Turbidity Meter (per day)	\$40.00
Turbidity Meter (per week).....	\$150.00
UT Thickness Gauge (per day)	\$50.00
Well Probe (per day).....	\$15.00
Well Probe (per week)	\$50.00

For additional information, please contact 425.774.0106.

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