

### SUMMARY OF LABORATORY FEES

Effective February 2024

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LAB CODE	TEST SPECIFICATION	STANDARD TURNAROUND (BUSINESS DAYS) *	STANDARD PRICING*	RUSH TURNAROUND (BUSINESS DAYS)*	RUSH PRICING*
<b>SOIL AND ROCK</b>					
8800	Caltrans Relative Compaction, CT216	3	\$475	Same Day	\$950
9100	Clay Lumps and Friable Particles, ASTM C142	5	\$105	Next Day	\$210
9130	Cleanness Value, CT 227 each	5	\$250	2	\$500
8310	Compaction, ASTM D1557 (A-C)	4	\$375	2	\$750
8309	Compaction, Manual, ASTM D1557 (A-C)	4	\$565	2	\$1,130
8311	Compaction Point, AASHTO T272	4	\$375	2	\$750
8312	Compaction, ASTM-1557 (A-D) or ASTM-D698 with Correction	4	\$440	2	\$880
8315	Compaction, Rock Correction, ASTM D4718	4	\$94	Next Day	\$187
8316	Compaction, ASTM D4253, Vibratory Table	4	\$440	2	\$880
8317	Compaction, Lime/Cement Treated, ASTM D558	5	\$500	3	\$1,000
8220	Consolidation – Incremental Loading ASTM D2435, Method A	32	\$600	16	\$1,200
8221	Consolidation – Incremental Loading ASTM D2435, Method B	32	\$685	16	\$1,370
8230	Consolidation, ASTM D2435 Unload – Reload Cycle	4	\$80	2 Additional	\$160
8410	Consolidation – CRS, ASTM D4186, Depths from 0 to 75 feet	5	\$715	4	\$1,430
8411	Consolidation – CRS, ASTM D4186, Depths from 75 feet and below and/or stiff clays	5	\$785	4	\$1,570
Additional Unload – Reload Cycle (for CRS, Lab Code 8410 and 8411 only)					
8412	Stress Range: 1 - 5 ksf	Variable	\$170	N/A	\$340
8413	Stress Range: 5 - 10 ksf	Variable	\$255	N/A	\$510
8414	Stress Range: 10 - 15 ksf	Variable	\$340	N/A	\$680
8415	Stress Range: 15 - 20 ksf	Variable	\$420	N/A	\$840
8184	Deep Soil Mix (DSM) Compression Test	5	\$100	2	\$200
8201	Direct Shear – CD, Additional Cycles (per point) ASTM D3080	2	\$82	N/A	\$164
8202	Direct Shear – CD, (2-points) ASTM D3080	8	\$590	5	\$1,180
8203	Direct Shear – CD, (3-points) ASTM D3080	12	\$826	8	\$1,652
8204	Direct Shear – CD, (4-points) ASTM D3080	16	\$1080	12	\$2,160
8451	Direct Shear – CD, (Additional Point) ASTM D3080	5	\$275	3	\$550
8991	Cyclic Simple Shear Test (CSS), ASTM D8296	5	\$2,100	5	\$4,200
8992	Monotonic Simple Shear Test, Load-Controlled (per point) ASTM D6528 - Modified	5	\$1,100	5	\$2,200
8900	Durability Index, CT229	5	\$300	Next Day	\$600
8320	Expansion Index, ASTM D4829	8	\$470	4	\$940
8321	Expansion Index, ASTM D4829 - Lime Treated in Lab	Dependent on cure time	\$495	Dependent on cure time	\$990
9630	Fine Aggregate Angularity Percentage, CT 234, AASHTO T304, Method A	5	\$170	Next Day	\$340
8990	Laboratory Miniature Vane Shear (peak Value), ASTM D4648	5	\$145	Next Day	\$290
8160	Moisture Content & Unit Weight, ASTM D7263	5	\$72	Next Day	\$144
8140	Moisture Only, ASTM D2216, CT 226	5	\$45	Next Day	\$90
8150	Moisture Only, ASTM D4643, CT 370 (By Microwave oven)	5	\$110	Same Day	\$220
9590	Organic Content of Soil ASTM D2974	5	\$200	Next Day	\$400
9090	Organic Impurities, ASTM C40	5	\$160	Next Day	\$320
9120	Percent Crushed Particles Per Fraction, CT205	5	\$185	Same Day	\$370
9110	Percent Flat or Elongated Particles, ASTM D4791, CT 235	5	\$220	Same Day	\$440
8980	Soil pH, percent Lime for Stabilization, ASTM D6276 (Eades and Grimm)	5	\$465	Next Day	\$930

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8870	Soil pH, ASTM D4972, CT 643	5	\$145	Same Day	\$290
8190	Plasticity Index, Dry Method - ASTM D4318	5	\$295	Next Day	\$590
8191	Plasticity Index, Wet Method - ASTM D4318 (ASTM Default method)	5	\$295	Next Day	\$590
8192	Plasticity Index, Lime/Cement Treated - ASTM D4318)	5	\$315	Next Day	\$630
8510	Rock Core Unconfined Compressive Strength, ASTM D7012	5	\$345	Same Day	\$690
8970	R-Value – Lime/Cement Treated, ASTM D2844 CT301	6	\$700	3	\$1,400
8290	R-Value, ASTM 2844, CT301	6	\$620	3	\$1,240
8280	Sand Equivalent, CT 217, ASTM D2419	5	\$255	Next Day	\$510
8261	Dry Sieve, ASTM D1140, C117	5	\$190	Next Day	\$380
8262	#200 Wash, ASTM D1140, C117	5	\$130	Next Day	\$260
8263	Sieve & #200 Wash, D6913, C136, CT202	5	\$205	Next Day	\$410
8264	Sieve & Hydrometer, ASTM D422, D7928	5	\$350	2	\$700
8250	Specific Gravity, ASTM D854	5	\$250	Next Day	\$500
8251	Specific Gravity, ASTM C127 or C128	5	\$150 Per Size Fraction	Next Day	\$300 Per Size Fraction
8660	Specimen Remolding and/or Lab Mixing (per specimen)	Varies	\$144	Dependent on type of remolding	\$288
8240	California Bearing Ratio (CBR), ASTM D1883	4	\$620	Dependent on soil type	\$1,240
9070	Sulfate Soundness, CT 214, ASTM C88	6	\$270/ Fraction	Dependent on number of fractions	\$540/ Fraction
8111	Sulfate Testing in Soils ASTM C1580	5	\$245	Next Day	\$490
8490	Swell Test A, per point ASTM D4546 - 2004	5	\$370	4	\$740
8500	Swell Test B, per point ASTM D4546 - 2004	5	\$410	4	\$820
8501	Swell Test C, per point ASTM D4546 - 2004	5	\$410	4	\$820
8491	Swell/Collapse Test A, per point ASTM D4546	8	\$410	4	\$820
8503	Swell/Collapse Test B, per point ASTM D4546	5	\$410	Dependent on material behavior	\$410
8502	Swell/Collapse Test C, per point ASTM D4546	5	\$410	Dependent on material behavior	\$820
8170	Soil Cement – Wet/Dry Durability, ASTM D559	Varies	\$1,250	N/A	\$2,500
8350	Isotropic Triaxial Compression – CU, Single Specimen, Multistage Test ASTM D4767 - Modified	Varies	\$1,050/ Stage	Dependent on number of stages and material type	\$2,100/ Stage
8344	Triaxial CU Testing, SHANSEP Procedure (per point) USACE	Varies	\$150	Varies	\$300
8340	Isotropic Triaxial Compression – CU (1- point ) ASTM D4767, USACE	5	\$630	4	\$1,260
8341	Isotropic Triaxial Compression – CU (2 points) ASTM D4767, USACE	9	\$1,210	8	\$2,420
8342	Isotropic Triaxial Compression – CU (3 points) ASTM D4767, USACE	14	\$1,875	12	\$3,750
8343	Isotropic Triaxial Compression – CU (4 points) ASTM D4767, USACE	18	\$2,350	15	\$4,700
8330	Isotropic Triaxial Compression – UU (per point) ASTM D2850, USACE	5	\$230	Next Day	\$460
8180	Unconfined Compression - Soils, ASTM D2166	5	\$148	Next Day	\$296
8181	Unconfined Compression, Lime/Cement-Treated Soil ASTM D5102/D1633	18	\$390	9	\$780
8182	Unconfined Compression, Lime/Cement-Treated Soil CTM 373	18	\$1,050	9	\$2,100
8178	Unconfined Compression, Lime/Cement Slurry	18	\$210	9	\$420
8183	Unconfined Compression, Lime/Cement -Treated Soil, Additional points	18	\$75	9	\$150

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8179	Unconfined Compressive Strength Testing, Soil-Cement-Bentonite Slurry (field sample), ASTM D1633	Dependent on the specified break schedule	\$232	Dependent on the specified break schedule	\$464
8661	LA Abrasion (Rattler), ASTM C131, CT 211	4	\$250	2	\$500
<b>CONCRETE</b>					
9220	Absorption, ASTM C642	6	\$475	Next Day	\$950
9013	Shotcrete, Field cores (cored in the field), per core, ASTM C1140	5	\$110	2	\$220
9014	Shotcrete, 1 core, ASTM C1140	5	\$190	2	\$380
9320	Compression Test, per 6" x 12" cylinder, ASTM C39	5	\$65	Same Day	\$130
9330	Compression Test, per 4" x 8" cylinder ASTM C39	5	\$55	Same Day	\$110
9941	Flexural Strength of Concrete Beams (4"x4"x14") ASTM C78	5	\$135	Same Day	\$270
9940	Flexural Strength of Concrete Beams (6"x6"x21") ASTM C78	5	\$150	Same Day	\$300
9340	Compressive Strength of Lightweight Insulating Concrete (ASTM C495)	5	\$175	Same Day	\$350
9020	Core Trimming, In Laboratory	5	\$70	Same Day	\$140
9950	Thickness of Drilled Concrete Cores, ASTM C174	5	\$75	Same Day	\$150
9060	Laboratory Trial Batch, ASTM C192, Including Test Cylinders	5	\$1,000	Same Day	\$2,000
9080	Length Change (3 bars, 4 readings, up to 90 days), ASTM C157 modified	28-90	\$610	28-90	\$1,220
9050	Slab Moisture Determination Test Kit	5	\$40	Next Day	\$80
9000	Unit Weight of Lightweight Concrete Cylinders (ASTM C495)	5	\$60	Next Day	\$120
<b>MORTAR &amp; GROUT</b>					
9250	Compression Test 2" Mortar Cubes, ASTM C109	5	\$85	Next Day	\$170
9240	Compression, Grout Prisms, ASTM C1019	5	\$92	Next Day	\$184
9230	Compression, Mortar Cylinder, ASTM C39	5	\$92	Next Day	\$184
<b>ASPHALTIC CONCRETE*</b>					
8010	AC Correction Factor, ASTM D6307, CT 382	N/A	N/A	N/A	\$675
8020	RAP Aggregate Gradation Correlation Factor, Caltrans LP-9	N/A	N/A	N/A	\$3,000
8070	AC Maximum Density (Avg. of 3 Briquettes) D1188, CT308	N/A	N/A	N/A	\$630
8071	AC Maximum Density (Avg. of 3 Briquettes) D1188, CT 308 (S-Value is performed prior to LTMD)	N/A	N/A	N/A	\$550
8090	AC Maximum Theoretical Unit Weight ASTM D2041, CT 309 (Rice Specific Gravity)	N/A	N/A	N/A	\$470
9460	Asphalt Core Density (4" Core), ASTM D1188, ASTM 2726, CT308	N/A	N/A	N/A	\$145
9461	Asphalt Core Density (6" Core), ASTM D1188, ASTM 2726, CT 308	N/A	N/A	N/A	\$165
9462	Thickness of Asphalt Cores, CT 308	5	N/A	2	\$84
8532	Extraction by Centrifuge ASTM 2172	N/A	N/A	N/A	\$550
8531	Extraction by Ignition Oven, ASTM D6307, CT 382	N/A	N/A	N/A	\$450
8533	Extraction by Reflux Extractor, ASTM D2172 – Method B	N/A	N/A	N/A	\$895
8050	Stability Test (Avg. of 3 Briquettes), ASTM D1560, CT 366, (w/o Max. Density test)	N/A	N/A	N/A	\$850
8060	Marshall Stability and Flow of Bituminous Mixtures, ASTM D6927	5	N/A	3	\$700
<b>VOLUMETRIC PROPERTIES OF HMA</b>					
9660	Absorbed Asphalt Binder CT 367	N/A	N/A	N/A	\$210
9600	Air Void Content	N/A	N/A	N/A	\$210
9670	Bulk Specific Gravity – Admixture Blend CT 367	N/A	N/A	N/A	\$210
9640	Dust Proportions, CT 367, Caltrans LP-4	N/A	N/A	N/A	\$210
9680	Effective Asphalt Binder of Volume, CT 367	N/A	N/A	N/A	\$210
9690	Effective Binder Content, CT 367	N/A	N/A	N/A	\$210
9580	Effective Specific Gravity of Aggregate-Admixture Blend, CT 367	N/A	N/A	N/A	\$210

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9620	Void Filled With Asphalt CT 367, LP-3	N/A	N/A	N/A	\$210
9610	Voids in Mineral Aggregate CT 367, LP-2	N/A	N/A	N/A	\$210
Note: Lab fees for volumetric properties of HMA per CT 367 are based on tests CT 202, CT 308, CT 309, and CT 382 have been completed.					
<b>FIREPROOFING</b>					
9990	Oven Dry Density, Fireproofing, per sample	5	\$110	Next Day	\$220

- \*Rush turnaround times are calculated based on the average minimum time required to complete the test and remain compliant with the applicable test standard.
- \*Rush turnaround time prioritizes rush testing over other requested testing and dedicates a technician to complete the rush testing as quickly as possible. Rush turnaround times are estimates only and do not guarantee test completion within the estimated rush testing timeframe.
- \*Test turnaround time is the amount of time required to perform the test once started. Test start times are dependent on available labor and equipment. Please contact Lab Services at [labservices@engeo.com](mailto:labservices@engeo.com) to determine equipment capacity and availability. Turnaround times are estimates only and do not guarantee test completion within the estimated testing timeframe.
- \*The testing fees and test durations listed reflect the standard business hours required to perform the test. Samples requiring premium handling will incur additional hourly personnel charges in accordance with the Laboratory Technician Rate presented on our Fee Schedule.
- \*For HMA testing, only rush pricing is provided because all HMA testing is expedited on a rush basis. When HMA testing is requested, all other testing is secondary due to the timeliness needed for the HMA results.
- Add three days to the estimated test duration for soil testing that requires remolded specimens.
- The above fees are reviewed annually and are subject to change. Additional tests are available upon request.
- Prices exclude field collection and transportation to the laboratory.
- Supplemental fees for laboratory preparation of specimens are charged on an hourly basis.
- Where tests are to be run on an immediate need basis (tests to be initiated out of order received and regardless of status of other previously received samples), the expediting fee is 100% of the listed unit rate.
- Sample storage is \$110 per month per 0.5 cubic yards of storage space.
- There is a 3:00 pm cut-off time for sample delivery/test start time.
- Turnaround times are based on samples delivered to the laboratory before 3:00 pm. Turnaround time on samples received after 3:00 pm will begin at 7:00 am the following business day.
- Concrete/masonry compression breaks requested prior to the scheduled break date and/or prior to 7:00 am will be considered rush testing requests and billed a rush fee.
- Witness testing will be billed at \$150.00/hour per individual witness.
- There is a 100% increase in fees per test for testing contaminated samples.
- Disposal charges for contaminated samples will be billed to the project on a time-and-expense basis.
- All project required weekend work is billed directly to the project with a 2-hour minimum charge.
- Samples requiring premium handling, such as searching for testable portions (Shelby, D&M tubes, etc.), will be billed on a time-and-expense basis to the project.