

SUMMARY OF LABORATORY FEES

Effective March 2020

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LAB CODE	TEST SPECIFICATION	STANDARD TURNAROUND (BUSINESS DAYS) *	STANDARD PRICING*	RUSH TURNAROUND (BUSINESS DAYS)*	RUSH PRICING*
SOIL AND ROCK					
8800	Caltrans Relative Compaction, CT216	3	\$350	Same Day	\$700
9100	Clay Lumps and Friable Particles, ASTM C142	5	\$100	Next Day	\$200
9130	Cleanness Value, CT 227 each	5	\$210	2	\$420
8310	Compaction, ASTM D1557 (A-C)	4	\$350	2	\$700
8311	Compaction Point, AASHTO T272	4	\$350	2	\$700
8312	Compaction, ASTM-1557 (A-D) or ASTM-D698 with Correction	4	\$405	2	\$810
8313	Compaction, ASTM 1557 (A-D), Same Day Preliminary Results	1	\$690	N/A	N/A
8314	Compaction, ASTM-1557 or ASTM-D698, Same Day with Correction	1	\$800	N/A	N/A
8315	Compaction, Rock Correction, ASTM D4718	4	\$85	Next Day	\$170
8316	Compaction, ASTM D4253, Vibratory Table	4	\$375	2	\$750
8220	Consolidation – Incremental Loading ASTM D2435, Method A	32	\$550	16	\$1,100
8221	Consolidation – Incremental Loading ASTM D2435, Method B	32	\$550	16	\$1,100
8230	Consolidation, ASTM D2435 Unload – Reload Cycle	4	\$50	2 Additional	\$100
8410	Consolidation – CRS, ASTM D4186, Depths from 0 to 75 feet	5	\$575	4	\$1,150
8411	Consolidation – CRS, ASTM D4186, Depths from 75 feet and below and/or stiff clays	5	\$700	4	\$1,400
Additional Unload – Reload Cycle (for CRS, Lab Code 8410 and 8411 only)					
8412	Stress Range: 1 - 5 ksf	Variable	\$160	N/A	N/A
8413	Stress Range: 5 - 10 ksf	Variable	\$240	N/A	N/A
8414	Stress Range: 10 - 15 ksf	Variable	\$320	N/A	N/A
8415	Stress Range: 15 - 20 ksf	Variable	\$400	N/A	N/A
8184	Deep Soil Mix (DSM) Compression Test	5	\$75	2	\$150
8201	Direct Shear – CD, Additional Cycles (per point) ASTM D3080	2	\$50	N/A	N/A
8202	Direct Shear – CD, (2-points) ASTM D3080	8	\$500	5	\$1,000
8203	Direct Shear – CD, (3-points) ASTM D3080	12	\$700	8	\$1,400
8204	Direct Shear – CD, (4-points) ASTM D3080	16	\$900	12	\$1,800
8991	Cyclic Simple Shear Test (CSS), ASTM D6528	5	\$2,100	5	\$4,200
8992	Monotonic Simple Shear Test, ASTM D6528	5	\$1,000	5	\$2,000
8900	Durability Index, CT229	5	\$235	Next Day	\$470
8320	Expansion Index, ASTM D4829	8	\$400	4	\$800
8321	Expansion Index, ASTM D4829 - Lime Treated in Lab	Dependent on cure time	\$450	Dependent on cure time	\$900
9630	Fine Aggregate Angularity Percentage, CT 234, AASHTO T304, Method A	5	\$150	Next Day	\$300
8990	Laboratory Miniature Vane Shear (peak Value), ASTM D4648	5	\$110	Next Day	\$220
8160	Moisture Content & Unit Weight, ASTM D7263	5	\$55	Next Day	\$110
8140	Moisture Only, ASTM D2216, CT 226	5	\$30	Next Day	\$60
8150	Moisture Only, ASTM D4643, CT 370 (By Microwave oven)	5	\$100	Same Day	\$200
9590	Organic Content of Soil ASTM D2974	5	\$160	Next Day	\$320
9090	Organic Impurities, ASTM C40	5	\$150	Next Day	\$300
9120	Percent Crushed Particles, CT205	5	\$175	Same Day	\$350
9110	Percent Flat or Elongated Particles, ASTM D4791, CT 235	5	\$200	Same Day	\$400
8980	Soil pH, percent Lime for Stabilization, ASTM D6276 (Eades and Grimm)	5	\$400	Next Day	\$800

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8040	Permeability, Falling Head or Constant Head, ASTM D5084, D2434	8	\$450	4	\$900
8870	Soil pH, ASTM D4972, CT 643	5	\$85	Same Day	\$170
8190	Plasticity Index, Dry Method - ASTM D4318	5	\$260	Next Day	\$520
8191	Plasticity Index, Wet Method - ASTM D4318 (ASTM Default method)	5	\$260	Next Day	\$520
8510	Rock Core Unconfined Compressive Strength, ASTM D7012	5	\$300	Same Day	\$600
8970	R-Value - Lime Treated, ASTM D2844 CT301	6	\$500	3	\$1,000
8290	R-Value, ASTM 2844, CT301	6	\$420	3	\$840
8280	Sand Equivalent, CT 217, ASTM D2419	5	\$195	Next Day	\$390
8261	Dry Sieve, ASTM D1140, C117	5	\$130	Next Day	\$260
8262	#200 Wash, ASTM D1140, C117	5	\$105	Next Day	\$210
8263	Sieve & #200 Wash, ASTM D422, C136, CT202	5	\$165	Next Day	\$330
8264	Sieve & Hydrometer, ASTM D422	5	\$260	2	\$520
8250	Specific Gravity, ASTM D854	5	\$225	Next Day	\$450
8251	Specific Gravity, ASTM C127 or C128	5	\$125 Per Size Fraction	Next Day	\$250 Per Size Fraction
8660	Specimen Remolding and/or Lab Mixing (per specimen)	Varies	\$100	Dependent on type of remolding	\$200
9070	Sulfate Soundness, CT 214, ASTM C88	6	\$250/ Fraction	Dependent on number of fractions	\$500/ Fraction
8111	Sulfate Testing in Soils ASTM C1580	5	\$220	Next Day	\$440
8490	Swell/Collapse Test A, per point ASTM D4546	8	\$350	4	\$700
8500	Swell/Collapse Test B, per point ASTM D4546	5	\$350	Dependent on material behavior	\$700
8170	Soil Cement – Wet/Dry Durability, ASTM D559	Varies	\$1,150	N/A	N/A
8350	Isotropic Triaxial Compression – CU, Single Specimen, Multistage Test ASTM D4767 - Modified	Varies	\$1,000/Stage	Dependent on number of stages and material type	\$2,000/Stage
8340	Isotropic Triaxial Compression – CU (1- point) ASTM D4767, USACE	5	\$520	4	\$1,040
8341	Isotropic Triaxial Compression – CU (2 points) ASTM D4767, USACE	9	\$1,040	8	\$2,080
8342	Isotropic Triaxial Compression – CU (3 points) ASTM D4767, USACE	14	\$1,560	12	\$3,120
8343	Isotropic Triaxial Compression – CU (4 points) ASTM D4767, USACE	18	\$2,000	15	\$4,000
8330	Isotropic Triaxial Compression – UU (per point) ASTM D2850, USACE	5	\$190	Next Day	\$380
8180	Unconfined Compression - Soils, ASTM D2166	5	\$125	Next Day	\$250
8181	Unconfined Compression, Lime/Cement-Treated Soil ASTM D5102/D1633	18	\$335	9	\$670
8182	Unconfined Compression, Lime/Cement-Treated Soil CTM 373	18	\$1000	9	\$2,000
8183	Unconfined Compression, Lime/Cement -Treated Soil, Additional points	18	\$55	9	\$110
CONCRETE					
9220	Absorption, ASTM C642	6	\$450	Next Day	\$900
9010	Compression Test, Cores, ASTM C42	5	\$105	Same Day	\$210
9320	Compression Test, per 6" x 12" cylinder, ASTM C39	5	\$38	Same Day	\$76
9330	Compression Test, per 4" x 8" cylinder ASTM C39	5	\$34	Same Day	\$68
9940	Flexural Strength of Concrete Beams, ASTM C78	5	\$120	Same Day	\$240
9340	Compressive Strength of Lightweight Insulating Concrete (ASTM C495)	5	\$150	Same Day	\$300
9020	Core Trimming, In Laboratory	5	\$70	Same Day	\$140

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9950	Thickness of Drilled Concrete Cores, ASTM C174	5	\$40	Same Day	\$60
9060	Laboratory Trial Batch, ASTM C192, Including Test Cylinders	5	\$1000	Same Day	\$2000
9080	Length Change (3 bars, 4 readings, up to 90 days), ASTM C157 modified	28-90	\$500	28-90	\$830
9050	Slab Moisture Determination Test Kit	5	\$40	Next Day	\$60
9000	Unit Weight of Lightweight Concrete Cylinders (ASTM C495)	5	\$50	Next Day	\$100
CONCRETE MASONRY UNITS					
9160	Compression, ASTM C140	5	\$110	Same Day	\$220
9140	Moisture Content as Received, Absorption ASTM C140	5	\$80	Next Day	\$160
MASONRY PRISMS					
9190	Compression Test, Grouted Prisms, ASTM C1314	5	\$300	Next Day	\$600
9200	Trimming Grouted Prisms	5	\$125	Next Day	\$250
MORTAR & GROUT					
9250	Compression Test 2" Mortar Cubes, ASTM C109	5	\$55	Next Day	\$110
9240	Compression, Grout Prisms, ASTM C39	5	\$55	Next Day	\$110
9230	Compression, Mortar Cylinder, ASTM C39	5	\$55	Next Day	\$110
ASPHALTIC CONCRETE					
8010	AC Correction Factor, ASTM D6307, CT 382	N/A	N/A	N/A	\$550
8020	RAP Aggregate Gradation Correlation Factor, Caltrans LP-9	N/A	N/A	N/A	\$2,850
8070	AC Maximum Density (Avg. of 3 Briquettes) D1188, CT308	N/A	N/A	N/A	\$550
8071	AC Maximum Density (Avg. of 3 Briquettes) D1188, CT 308 (S-Value is performed prior to LTMD)	N/A	N/A	N/A	\$425
8090	AC Maximum Theoretical Unit Weight ASTM D2041, CT 309 (Rice Specific Gravity)	N/A	N/A	N/A	\$400
9460	Asphalt Core Density (4" Core), ASTM D1188, CT308	N/A	N/A	N/A	\$120
9461	Asphalt Core Density (6" Core), ASTM D1188, CT 308	N/A	N/A	N/A	\$150
9462	Thickness of Asphalt Cores, CT 308	5	\$40	2	\$80
8532	Extraction by Centrifuge ASTM 2172	N/A	N/A	N/A	\$450
8531	Extraction by Ignition Oven, ASTM D6307, CT 382	N/A	N/A	N/A	\$350
8533	Extraction by Reflux Extractor, ASTM D2172 – Method B	N/A	N/A	N/A	\$725
8050	Stability Test (Avg. of 3 Briquettes), ASTM D1560, CT 366, (w/o Max. Density test)	N/A	N/A	N/A	\$750
VOLUMETRIC PROPERTIES OF HMA					
9660	Absorbed Asphalt Binder CT 367	N/A	N/A	N/A	\$200
9600	Air Void Content	N/A	N/A	N/A	\$200
9670	Bulk Specific Gravity – Admixture Blend CT 367	N/A	N/A	N/A	\$200
9640	Dust Proportions, CT 367, Caltrans LP-4	N/A	N/A	N/A	\$200
9680	Effective Asphalt Binder of Volume, CT 367	N/A	N/A	N/A	\$200
9690	Effective Binder Content, CT 367	N/A	N/A	N/A	\$200
9580	Effective Specific Gravity of Aggregate-Admixture Blend, CT 367	N/A	N/A	N/A	\$200
9620	Void Filled With Asphalt CT 367, LP-3	N/A	N/A	N/A	\$200
9610	Voids in Mineral Aggregate CT 367, LP-2	N/A	N/A	N/A	\$200
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.					
FIREPROOFING					
9990	Oven Dry Density, Fireproofing, per sample	5	\$100	Next Day	\$200

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- *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 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.
- 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 \$100 per month per cubic yard 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 is billed at \$150.00/hour per individual witness.