TRI INDEPENDENT GEOTECHNICAL LABORATORY SERVICES

Schedule of Fees and Services

Please contact for project specific proposals



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The TRI Environmental Group operates world-class, independent, third-party, AASHTO - accredited geotechnical laboratory in Austin, Texas and in Coraopolis, Pennsylvania. TRI is unassociated with any manufacturing, engineering/consulting or construction company, thus establishing the independence of all staff and test results generated. TRI is non-competitive with our clients and assists them in achieving success.

Our laboratories boast one of the broadest ranges of soil, aggregate and rock strength testing capabilities in the world. Technical capability, custom service, safety, comprehensive reporting are just a few of the things our clients can count on to ensure project success

TEXAS AND PENNSYLV	ANIA PER	PENNSYLVANIA-SPECIFIC			EXAS-SPECIFIC	
Shear strength	C	Corrosion / Analytical			chate Permeation	
1-D Consolidation Swell / Collapse	/ с	emento	and Concrete	Direct Simple Shear (DSS		
Hydraulic Conductiv	draulic Conductivity Aggree			/ Gravel / Sand Constant Rate of Strain (CRS)		
Classification & Compo	iction F	ly Ash /	Bottom Ash		arge Diameter Triaxial Testing	
Large Scale Direct Sh	ear F	Fire Resistive Materials			osynthetic Pullout and Friction	
Rock Mechanics	Ste	Steel & Blast Furnace Slag			synthetic Filtration	
Thermal Properties					synthetic Puncture	
Megan And Laboratory Administo mandrews@gts- (412) 870-4	ative Assistant -labs.com 1099 Rich Lacey,	bschultz@gts-labs.com (412) 771-5340 Lacey, P.E. Jeffrey A. Kuhn, Ph		Labord kbrous (7	Iby Broussard atory Geoscientist sard@tri-env.com 737) 787-1034	
	Senior Engineer Executive Dire rlacey@tri-env.com jkuhn@tri-env					

Effective 03/01/2025

Expiration 12/31/2025

This fee schedule is applicable only to clients who have completed credit applications, are on NET-30 terms, and have maintained good standing by keeping their accounts current. All information within this Fee Schedule, including fees, terms, and financial details, is CONFIDENTIAL. The Client agrees not to disclose this information to third parties and to use it solely for the purpose of the agreed-upon services. See Page 6 for Standard Operating Procedures, Sending Samples to the Laboratory, Contaminated Samples, and Standard Terms.

She	ear strength - single specimen compression, 3/8	-inch (-)	PA-Intact	PA-Remold	TX-Intact	TX-Remold	Bulk	Length	Jo
1.	Unconfined Compression	ASTM D2166	\$110	\$145	\$82	\$145	2.5-gal	6-inch	10
2.	Q-TYPE Unconsolidated-Undrained (Total)	ASTM D2850	\$137	\$246	\$110	\$172	2.5-gal	6-inch	10
SHI	EAR STRENGTH - TRIAXIAL SERIES - Three Stresses,	3/8-inch (-)	PA-Intact	PA-Remold	TX-Intact	TX-Remold	Bulk	Length	Jc
1.	Q-TYPE Unconsolidated-Undrained (Total Stress Envelope)	ASTM D2850	\$411	\$738	\$327	\$516	5-gal	24-inch	-
2.	R-Type Consol. Undrained (Effective Stress Envelope)	ASTM D4767	\$1,311	\$1,473	\$1,092	\$1,290	5-gal	24-inch	-
3.	R-Type Anisotropic Consol. Undrained (K or Ko)	ASTM D4767	-	-	\$1,800	\$1,989	5-gal	24-inch	
4.	TX Only - Multi-Stage CU	ASTM D4767 -Modified	-	-	\$1,365	\$1,554	_	8-inch	
5.	TX Only - Extension Testing	ASTM D4767 -Modified	-	-	QT	QT	5-gal	24-inch	
6.	S-Type Consol. Drained (Effective Stress Envelope)	ASTM D7181	-	-	QT	QT	5-gal	24-inch	
7.	S-Type Anisotropic Consol. Drained (Effective Stress Envelope)	ASTM D7181	-	-	QT	QT	5-gal	24-inch	
3.	PA Only - California Bearing Ratio - 1 Point (Specify placement)	ASTM D1883	-	\$208	-	-	5-gal	-	
Э.	PA Only - California Bearing Ratio - 3 Point (56, 25, and 10 blows)	ASTM D1883	-	\$624	-	-	10-gal	-	
0.	PA Only - California Bearing Ratio 1 Point (Cement Amended)	ASTM D1883	-	\$260	-	-	5-gal	_	
11.	TX Only - Large Scale Triaxial Testing (1-inch minus, 6-inch Diam.)	ASTM D2850 /D4767-D7181	-	-	QT	QT	15-gal	-	
		104/07 0/101							
SHI	EAR STRENGTH - DIRECT SHEAR (Three Stresses)		Intact	Remold	Test r	notes	Bulk	Length	J
	Direct Shear	ASTM D3080	\$465	\$492	Split-spc	oon at \$657	2.5-gal	6-inch	
2.	TX Only - Direct Shear in Support of Interface Friction	ASTM D3080	-	\$492		TM D5321/ 3 testing	10-gal	-	
3.	PA-Only - AASHTO Direct Shear (Residual Strength)	AASHTO T236	\$519	\$546	Split-sp	oon at \$711	2.5-gal	6-inch	
1.	PA Only - Repeated Direct Shear (Residual Strength)	ACOE IXA	\$1,748	\$1,830	2.5-inch	n Diameter	2.5-gal	8-inch	i
5.	PA Only - Repeated Direct Shear (Residual Strength)	ACOE IXA (ASTM Shear Speed)	\$1.,202	\$1,284	2.5-incl	n Diamete	2.5-gal	8-inch	1
3.	Large-Scale Direct Shear of Freely Draining Aggregate	ASTM D3080	-	\$1,092	1-inch mir	nus, 0.04 ipm	15-gal	_	
7.	Large-Scale Direct Shear of Cohesive/Fine Agg.	ASTM D3080	_	QT		acement Varies	15-gal	_	
Β.	TX Only - Direct Simple Shear	ASTM D6528	QT	QT		Diameter	2.5-gal	6-inch	1
so	IL 1-D CONSOLIDATION / SWELL / COLLAPSE		Intact	Remold	Test	notes	Bulk	Length	J
	Consolidation - 24-hr Advancement	ASTM D2435-A	\$983	\$1,148	24-hr Ad	vancement	1-gal	4-inch	
2.	Consolidation - 100% Primary	ASTM D2435-B	\$492	\$657	100%	Primary	1-gal	4-inch	
3.	TX Only - Consolidation in Support of Interface Friction	ASTM D2435-B	-	\$647		TM D5321/ 3 testing	10-gal	-	
ŀ.	One-Dimensional Swell or Collapse - 4 points (Remolded)	ASTM D4546-A	-	\$1,092	Wettin -Load	ng-after ing Tests	5-gal	5-inch	
5.	One-Dimensional Swell or Collapse - 1 point	ASTM D4546-B	\$247	-	Single-	Point Wet- er-Loading	1-gal	4-inch	
ò.	One-Dimensional Swell or Collapse - 1 point with D2435	ASTM D4546-C	\$546	_	Load	ling-af- etting Test	1-gal	4-inch	
<i>.</i>	TX-Only - CRS Loading 1-D	ASTM D4186	\$884	\$950	Requires I	D6913-D4318 esting	1-gal	4-inch	
3.	PA Only - Consolidation (24hr)	AASHTO T216-A	\$1,035	\$1,200		vancement	1-gal	4-inch	
Э.	PA Only - Consolidationd (100% Primary)	AASHTO T216-B	\$544	\$709	100%	Primary	1-gal	4-inch	
50	IL HYDRAULIC CONDUCTIVITY (PERMEABILITY)		Pa-Intact	Pa-Remold	Tx-Intact	Tx-Remold	Bulk	Lenath	J
-	Flex Wall Hydraulic Conductivity (2.8-Inch Diameter)	ASTM D5084		\$383	\$263	\$326	1-gal	6-inch	
•	Rigid Wall Hydraulic Conductivity (2.5-inch Diameter)	ASTM D5084 ASTM D2434	\$328		φ203 -		1&5-gal	0 Inoll	
2		A011VL17404		\$274	_	\$210	iuu yui		
2. 3.	TX Only - Large Diameter Flex Wall Hydraulic Conductivity	ASTM D5084				QT	5-gal		

	CLASSIFICATION - ASTM		PA	тх	Test Notes	Bulk	Length	J
1.	Water Content	ASTM D2216	\$22	\$30	110 ± 5°C	1-qt	1-inch	
	Atterberg Limits (Liquid & Plastic)	ASTM D4318	\$77	\$103	3-Point Liquid Limit	1-qt	2-inch	
	Sieve Analysis	ASTM D6913	\$72	\$96	ASTM D1140 Wash Included	1-qt	2-inch	
	PA Only - Sieve Analysis - Historical	ASTM D422-63	\$72	-	ASTM D1140 Wash Included	1-qt	2-inch	
	% Passing #200 Sieve Only	ASTM D1140	\$50	\$67	Included with ASTM D6913	1-qt	2-inch	
	Hydrometer	ASTM D7928	\$77	\$103	Minus #200 Particle Analysis	1-qt	2-inch	
	Particle Size Analysis	Sieve and Hydrometer	\$148	\$197	ASTM D6913 & D7928	1/2-gal	4-inch	
	USCS Classification	Sieve and Atterberg	\$148	\$197	Sieve and Atterberg Limit	1/2-gal	4-inch	
	Specific Gravity	ASTM D854	\$83	\$111	For Phase Relationships	1-qt	2-inch	
).	Loss On Ignition	ASTM D2974-A	\$61	\$82	440 ± 10°C (ASTM Method A)	1-qt	2-inch	
	PA Only - Water Displacement Method (Wax Density)	ASTM D7263-A	\$83	-	Clod must be intact	-	-	
2.	Lab Determination of Density (Unit Weight)	ASTM D7263-B	\$61	\$82	+D854 for void ratio and porosity	-	-	
3.	TX Only - Rapid Carbonate Content	ASTM D4373	-	\$165	Percent Calcite Equivalent	1-qt	2-inch	
oII	CLASSIFICATION - AASHTO		PA	тх	Test Notes	Bulk	Length	
		AASHTO T265	\$22	_	110 ± 5°C		1-inch	
	PA Only - Water Content					l-qt		
	PA Only - Atterberg Limits	AASHTO T89 & T90	\$77	_	Liquid & Plastic	l-qt	2-inch	
•	PA Only - Particle Size Analysis	AASHTO T88	\$148	-	Sieve and Hydrometer	1/2-gal		
	PA Only - Specific Gravity	AASHTO TI00	\$83	-	For Phase Relationships	1-qt	2-inch	
	PA Only - Loss On Ignition	AASHTO T267	\$61	-	440 ± 10°C (ASTM Method A)	1-qt	2-inch	
OII	CLASSIFICATION - USDA		PA	ТΧ	Test Notes	Bulk	Length	
	USDA Classification	USDA	\$1	48	Sieve and Hydrometer	1/2-gal	4-inch	
OII	COMPACTION / MOISTURE-DENSITY		PA	ТХ	Test Notes	Bulk	Length	
	Standard Proctor	ASTM D698	\$172	\$286	PA Only - 1 Point : \$60	5-gal	-	
	Modified Proctor	ASTM D1557	\$201	\$301	PA Only - 1 Point : \$70	5-gal	-	
3.	PA Only - Oversize Rock Correction	ASTM D4718	\$64	-	Bulk Density and Absorption	-	-	
ŀ.	PA Only - PADOT Proctor	PTM 106	\$172	-	Oversize Material Replacement	10-gal	-	
5.	, PA Only - Cement Amended Proctor (Std or Mod)	ASTM D558 / AASHTO TI34	\$229	_	Prescribed Percent by Mass	15-gal	-	
,.).	PA Only - Lime Amended Proctor (Std or Mod)	Industry Practice	\$286	-	Prescribed Percent by Mass	15-gal	-	
7.	TX Only - Relative Density	ASTM D4254 / ASTM D4253	-	\$383	Minimum & Maximum	10-gal	-	
•		A31W D4234 / A31W D4233		¢000		io gai		
00	CK MECHANICS		PA	ТΧ	Test Notes	Bulk	Length	
	Mohs Hardness of Rock	Industry Practice	\$5	2	Resistance to Scratching	-	4-inch	
	Point Load - Per Point	ASTM D5731	\$5	68		-	4-inch	
	Point Load - 10 Points	ASTM D5731	\$3	38	Index for strength classification.	-	4-ft	
	Rebound Hammer	ASTM D5873	\$16	65	-	-	4-inch	
	Splitting Tensile - Per Point	ASTM D3967	\$5	i8		-	4-inch	
	Splitting Tensile - 10 Points	ASTM D3967	\$3	38	Also Termed Brazilian or Indirect Tensile	-	4-ft	
							8-inch	
•		ASTM D7012 "C"	\$1:	32	See ASTM D2166 for Soil	-		
i. i.	Unconfined Compressive Strength (UCS), NQ, NX	ASTM D7012 "C"	\$1:			-		
	Unconfined Compressive Strength (UCS), NQ, NX Modulus of Elasticity, NQ, NX	ASTM D7012 "C" ASTM D7012 "D"	\$1: \$2	74	Axial Strain		8-inch	
	Unconfined Compressive Strength (UCS), NQ, NX Modulus of Elasticity, NQ, NX Modulus of Elasticity & Poisson's Ratio, NQ, NX	ASTM D7012 "C" ASTM D7012 "D" ASTM D7012 "D"	\$1: \$2 \$4	74 10	Axial Strain Axial and Radial Strain		8-inch 8-inch	
).	Unconfined Compressive Strength (UCS), NQ, NX Modulus of Elasticity, NQ, NX Modulus of Elasticity & Poisson's Ratio, NQ, NX Slake Durability	ASTM D7012 "C" ASTM D7012 "D" ASTM D7012 "D" ASTM D4644	\$1: \$2	74 10 19	Axial Strain Axial and Radial Strain Qualitative Durability Index		8-inch 8-inch 1.5-ft	
	Unconfined Compressive Strength (UCS), NQ, NX Modulus of Elasticity, NQ, NX Modulus of Elasticity & Poisson's Ratio, NQ, NX	ASTM D7012 "C" ASTM D7012 "D" ASTM D7012 "D"	\$1: \$2 \$4	74 10	Axial Strain Axial and Radial Strain		8-inch 8-inch	
2.	Unconfined Compressive Strength (UCS), NQ, NX Modulus of Elasticity, NQ, NX Modulus of Elasticity & Poisson's Ratio, NQ, NX Slake Durability TX Only - Cherchar Abrasivity Index (CAI) TX Only - Punch Penetration (QT for variation)	ASTM D7012 "C" ASTM D7012 "D" ASTM D7012 "D" ASTM D4644 ASTM D7625	\$1: \$2 \$4 \$2 - -	74 10 19 \$219 \$383	Axial Strain Axial and Radial Strain Qualitative Durability Index Saw Cut, Specify if Natural Spherical and Conical	- - - - -	8-inch 8-inch 1.5-ft 4-inch 8-inch	
2.	Unconfined Compressive Strength (UCS), NQ, NX Modulus of Elasticity, NQ, NX Modulus of Elasticity & Poisson's Ratio, NQ, NX Slake Durability TX Only - Cherchar Abrasivity Index (CAI) TX Only - Punch Penetration (QT for variation) RMAL RESISTIVITY	ASTM D7012 "C" ASTM D7012 "D" ASTM D7012 "D" ASTM D4644 ASTM D4644 TRI Punch	\$1: \$2 \$4	74 10 19 \$219 \$383 TX	Axial Strain Axial and Radial Strain Qualitative Durability Index Saw Cut, Specify if Natural Spherical and Conical Test Notes	- - - - - - - - - - - - -	8-inch 8-inch 1.5-ft 4-inch 8-inch	
k. 6. 6. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7.	Unconfined Compressive Strength (UCS), NQ, NX Modulus of Elasticity, NQ, NX Modulus of Elasticity & Poisson's Ratio, NQ, NX Slake Durability TX Only - Cherchar Abrasivity Index (CAI) TX Only - Punch Penetration (QT for variation)	ASTM D7012 "C" ASTM D7012 "D" ASTM D7012 "D" ASTM D4644 ASTM D7625	\$1: \$2 \$4 \$2 - -	74 10 19 \$219 \$383	Axial Strain Axial and Radial Strain Qualitative Durability Index Saw Cut, Specify if Natural Spherical and Conical		8-inch 8-inch 1.5-ft 4-inch 8-inch	
I. 5. 5. 7. 8. 9. 0. 1. 2. THE I. 2.	Unconfined Compressive Strength (UCS), NQ, NX Modulus of Elasticity, NQ, NX Modulus of Elasticity & Poisson's Ratio, NQ, NX Slake Durability TX Only - Cherchar Abrasivity Index (CAI) TX Only - Punch Penetration (QT for variation) RMAL RESISTIVITY Single Point Test	ASTM D7012 "C" ASTM D7012 "D" ASTM D7012 "D" ASTM D4644 ASTM D7625 TRI Punch ASTM D5334	\$1: \$2 \$4 \$2 - -	74 10 19 \$219 \$383 TX \$110	Axial Strain Axial and Radial Strain Qualitative Durability Index Saw Cut, Specify if Natural Spherical and Conical Test Notes Specify Condition	1-gal	8-inch 1.5-ft 4-inch 8-inch Length 6-inch	
2. HE 2.	Unconfined Compressive Strength (UCS), NQ, NX Modulus of Elasticity, NQ, NX Modulus of Elasticity & Poisson's Ratio, NQ, NX Slake Durability TX Only - Cherchar Abrasivity Index (CAI) TX Only - Punch Penetration (QT for variation) RMAL RESISTIVITY Single Point Test Multi-Point Test with Dry Out Curve	ASTM D7012 "C" ASTM D7012 "D" ASTM D7012 "D" ASTM D4644 ASTM D7625 TRI Punch ASTM D5334 ASTM D5334	\$13 \$2 \$4 \$2 - - PA - -	74 10 19 \$383 TX \$110 \$629 TX	Axial Strain Axial and Radial Strain Qualitative Durability Index Saw Cut, Specify if Natural Spherical and Conical Test Notes Specify Condition Initial to Oven Dry	1-gal 1-gal Bulk	8-inch 8-inch 1.5-ft 4-inch 8-inch 6-inch 6-inch	
1. 5. 7. 3. 9. 0. 1. 2. THE 1. 2.	Unconfined Compressive Strength (UCS), NQ, NX Modulus of Elasticity, NQ, NX Modulus of Elasticity & Poisson's Ratio, NQ, NX Slake Durability TX Only - Cherchar Abrasivity Index (CAI) TX Only - Punch Penetration (QT for variation) RMAL RESISTIVITY Single Point Test Multi-Point Test with Dry Out Curve	ASTM D7012 "C" ASTM D7012 "D" ASTM D7012 "D" ASTM D4644 ASTM D7625 TRI Punch ASTM D5334	\$13 \$2 \$4 \$2 - - PA - -	74 10 19 \$219 \$383 TX \$110 \$629	Axial Strain Axial and Radial Strain Qualitative Durability Index Saw Cut, Specify if Natural Spherical and Conical Test Notes Specify Condition Initial to Oven Dry	1-gal 1-gal	8-inch 1.5-ft 4-inch 8-inch Length 6-inch	

so	IL CORROSION / ANALYTICAL - PA Only		PA	Test Notes	Bulk	Length	Jai	
I.	Resistivity	ASTM G187 / AASHTO T288	\$175	Two Electrode	For corrosion analysis, a 1-ga of soil (approximately 2,000 ç		allon baa	
2.	Resistivity	ASTM G57	\$83	Four Electrode			ms) is	
3.	рН	G51 / ASTM D4972 / AASHTO T289	\$17	Acidity or Alkalinity		ient for testing. H of the sample de		
1.	Chloride	AASHTO T291	\$61	Water-Soluble	on the specific test requested of composition of the soil.			
5.	Sulfate	ASTM C1580	\$203	Water-Soluble	composition of	the soll.		
6.	Sulfate	AASHTO T290	\$61	Water-Soluble	For additional information, pleas reach out to our analytical labo			
' .	Sulfide	AWWA 4500, A.4C	\$61	Qualitative	GTS, located in	Pennsylvania -	, acory	
3.	Oxidation-Reduction Potential (ORP)	ASTM G200	\$61	Often w/pH and elect. resistivity	1-800-853-7309)		
Э.	Total Sulfur	ASTM D4239	\$88	Coal or Coke				
0.	Pyrite (Forms of Sulfur)	ASTM D2492	\$110	Pyritic vs Sulfate				
N	ATER CORROSION - PA Only		PA		Test Notes			
	Resistivity & Conductivity	ASTM DI125	\$148	Quantitative M	leasurement of Ion	ic Constituents		
2.	рН	ASTM D1293	\$29	Elec	trometric Measurer	ment		
3.	Chloride	ASTM D512	\$83	Ion-Selective Electrode		de		
1.	Sulfate	ASTM D516	\$83		Turbidimetric			
IR	E RESISTIVE MATERIALS – PA Only		РА		Test Notes			
	Material Density (Specimens provided by Client)	ASTM E605	\$110	1	aboratory Procedu	re		
CE	MENT PRODUCTS - PA Only		PA		Test Notes			
•	Chloride Permeability - 3 Points	ASTM C1202 / AASHTO T277	QT	Spe	cify Age at Time of	Test		
2.	Compressive Strength of Concrete	ASTM C39	\$20	Moldad				
3.	Compressive Strength of Grout	ASTM C39 / ASTM C109	\$20	Molded	Cylinders - Cost Pe	r sumple		
ŀ.	Compressive Strength of Mortar	ASTM C109	\$20	2-in. Cube	Specimens - Cost	Per Sample		
5.	Compressive Strength of Cores - 1 specimen	ASTM C42 /C39	\$83	ACI 318 Sei	ries at Three Specir	mens/Tests		
ò.	Coring Fee	Industry Practice	\$110		2" bit & 4" bit			
<i>'</i> .	Density, Absorption, and Voids in Hardened Concrete	ASTM C642	\$274	Mas	ss-Volume Relation	ship		
٩G	GREGATES / GRAVEL / SAND - PA-Only		РА		Test Notes			
	Carbonate Content	ASTM D3042	(\$356 TX \$534)		Insoluble Residue			
2.	Sieve Analysis	PTM 616 / ASTM C136 / AASHTO T27	\$116	Po	article Size Distribut	ion		
		PTM 100 / ASTM C117 / AASHTO T11	\$77		Percent Fines			
	Percent Passing #200 Sieve							
3.	Percent Passing #200 Sieve Sodium Sulfate Soundness	PTM 510 / ASTM C88 / AASHTO T104	\$546	0				
3. 1.	-		\$546 \$546	Generally Mo	re Severe with Mag	nesium Sulfate		
3. 1. 5.	Sodium Sulfate Soundness	PTM 510 / ASTM C88 / AASHTO T104		Generally Mo Broken with the fing	Ū		eving	
3. 4. 5. 6.	Sodium Sulfate Soundness Magnesium Sulfate Soundness	PTM 510 / ASTM C88 / AASHTO T104 ASTM C88 / AASHTO T104	\$546	Broken with the fing	gers into fines remo	wable by wet sie	eving	
3. 4. 5. 6.	Sodium Sulfate Soundness Magnesium Sulfate Soundness Clay Lumps and Friable Particles in Aggregates	PTM 510 / ASTM C88 / AASHTO T104 ASTM C88 / AASHTO T104 ASTM C142 / AASHTO T112	\$546 \$219	Broken with the fing	Ū	wable by wet sie	eving	
3. 4. 5. 7. 3.	Sodium Sulfate Soundness Magnesium Sulfate Soundness Clay Lumps and Friable Particles in Aggregates Los Angeles Abrasion - Small-Size Coarse Aggregate	PTM 510 / ASTM C88 / AASHTO T104 ASTM C88 / AASHTO T104 ASTM C142 / AASHTO T112 ASTM C131 / AASHTO T96	\$546 \$219 \$437	Broken with the fing Relativ	gers into fines remo	ovable by wet sie petence	eving	
3. 4. 5. 6. 7. 3.	Sodium Sulfate Soundness Magnesium Sulfate Soundness Clay Lumps and Friable Particles in Aggregates Los Angeles Abrasion - Small-Size Coarse Aggregate Los Angeles Abrasion - Large-Size Coarse Aggregate	PTM 510 / ASTM C88 / AASHTO T104 ASTM C88 / AASHTO T104 ASTM C142 / AASHTO T112 ASTM C131 / AASHTO T96 ASTM C535	\$546 \$219 \$437 \$437	Broken with the fing Relativ	gers into fines rema e Quality and Com	wable by wet sie petence atios	eving	

STI	EEL & BLAST FURNACE SLAG - PA Only		ΡΑ	Test Notes	Bulk	Length	Jar
1.	Bulk Density of Aggregates - Blast Only (Rodding Method)	ASTM C29 "A" / AASHTO T19 Sec 10	\$72	Mass-Vo	olume Rela	ationships	
2.	Potential Expansion of Steel Slags - 1 pt	PTM 130	\$575	PTM Proctor not included			
3.	PennDOT Proctor	PTM 106	\$165	Required for Expansion			
FLY	ASH / BOTTOM ASH - PA Only		РА	Test Notes	Bulk	Length	Jar
1.	Moisture Content	ASTM C311	\$34	110 ± 5°C	1-qt	1-inch	1
2.	Sieve Analysis	ASTM C311	\$88	Coarse Particle Size Distribution	1-qt	2-inch	1
3.	Hydrometer	ASTM C311	\$94	Fines Particle Size Distribution	1-qt	2-inch	1
4.	Loss on Ignition	ASTM C311	\$77	750 ± 50°C (ASTM Method A)	1-qt	2-inch	1
5.	Standard Proctor	ASTM D698 / AASHTO T99	\$328	PA Only - 1 Point : \$120	10-gal	-	-
6.	Modified Proctor	ASTM D1557 / AASHTO T180	\$383	PA Only - 1 Point : \$140	10-gal	-	-
7.	Rigid Wall Permeability (3" & 6" Diameter) bottom ash only	ASTM D2434	\$383	2.8-Inch Diameter	1-gal	6-inch	-
8.	Flex Wall Permeability (Hydraulic Conductivity) fly ash only	ASTM D5084	\$492	3-inch & 6-inch Diameter	1 & 5-gal	-	-
от	HER		PA	тх			
1	PA Only - Sample Pickup Milegge Round Trip (after 50 miles)	¢	3.48			after 50 miles	

1.	PA Only - Sample Pickup Mileage Round Trip (after 50 miles)	\$3.48	-	PA Only - after 50 miles
2.	Rush Testing Surcharge	C	all	Call
3.	Contamination Surcharge	C	all	Call

Please contact for project specific proposals

Standard Operating Procedures

This fee schedule is based on TRI's terrestrial standard operating procedures. TRI participates in specialized testing for the offshore, renewable, nuclear, and other industries that requires special handling, testing, and reporting. These projects should be discussed with TRI staff prior to engaging. TRI has in house electrical engineering, equipment development, machine shop, NIST traceable calibration equipment, that allow us to cater to these industries.

Sending Samples to the Laboratory

Please ship samples for geotechnical testing to the attention of "Soil-Interaction" with contact information as presented on the first page of this document. Please appropriately package samples for shipping, labeling each individual sample / group of samples with their sample IDs as submitted on the COC. Please ensure that a copy of the COC is shipped with each sample. The COC copy should be packaged in such a manner as to protect it from moisture damage. If a completed and signed COC / test request form is not received, a project manager will be engaged at an hourly rate to gather this information from the client in order to initiate testing. Please be sure to include the client name, the project name as it will be used for reporting, and the parties that are to be reported to. If the billable party is different from the reporting party, please be sure to include this information as well.

Contaminated Samples

TRI places a high value on safe work conditions for its employees and visitors. Clients are expected to disclose any and all analytical data, material safety data sheets (MSDS/SDS/PSDS), or other materials relevant to the safe handling of materials submitted to the laboratory. Packaging of these materials should indicate that they contain such potentially harmful materials to protect our receiving staff. TRI will perform a hazard analysis to determine the appropriate personal protective equipment. All work on contaminated materials requires discussions with the engineering staff and project-specific quoting.

If a testing standard is not listed, please contact us to inquire.

Standard Terms

- 1- Unit costs quoted here are "not to exceed" costs within standard operating procedures.
- 2- Payment: Net 30 Days
- 3- All results will be e-mailed.
- 4- One report in PDF format will be issued.
- 5- Interim reporting is at the lab's discretion and costs and timing need to be discussed/quoted if requested.
- 6- Custom reporting will be charged at hourly rates.
- 7- Costs do not include shipping or customs fees.
- 8- Sample shipping at cost plus 30 percent.
- 9- Standard sample retention of 30 days following reporting.
- 10- Samples are assumed to be free of potentially harmful materials unless otherwise noted by the client at which point the appropriate safety precautions will need to be enacted in the laboratory.