



524 Elmwood Park Blvd., Ste. 170
New Orleans, LA 70123
P (504) 818-3638

Terracon.com

SOQ 22-012 - Laboratory Services for Inspection of Materials and
Equipment for Public Works Projects
Resolution No. 138808

Jefferson Parish

April 1, 2022



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New Orleans, LA 70123-6814

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Terracon.com

April 1, 2022

Jefferson Parish Purchasing Department
Attn: Melissa Ovalle
200 Derbigny Street
General Government Building, Suite 4400
Gretna, LA 70053

Attn: Melissa Ovalle
E: MOvalle@jeffparish.net

Re: SOQ No. 22-012
Laboratory Services for Inspection of Materials and Equipment for
Public Works Projects

Dear Ms. Ovalle:

Terracon Consultants, Inc. (Terracon) is extremely pleased to submit to Jefferson Parish the qualifications of our team of professionals to provide laboratory services for inspection of materials and equipment. Founded in 1965, Terracon has provided geotechnical engineering and construction material testing and inspection services nationwide.

Terracon continuously applies new cost-effective processes, methodologies, and techniques to solve project challenges, especially timely delivery of high-quality field data that enables you to make quick, informed decisions much sooner than ever before. Our proprietary data management systems, such as TARGETID, generate real-time results of critical information, using data captured in the field via mobile applications, to keep you informed while simultaneously moving your project forward. Our approach combines innovative technology with traditional testing methods to put data-driven decision making at your fingertips. Through a combination of Terracon tools powered by mobile field data collection applications, we make it easy for our clients to access project data, documents, and reports in one location through a collaborative online experience. These tools allow any Terracon user to visually place field observations and tests right where they belong on their plan, in real-time, entering data throughout the day through mobile devices. Our innovative tools form a system that gives our clients a huge technological advantage in project communication and collaboration through visual, map-based data review and analysis that helps them find what they need to know quickly and accurately.

Our materials and laboratory professionals provide materials services to tens of thousands of projects using our Seamless Constructed Delivery approach every day. As transportation, logistics, and other infrastructure needs increase, we are ready to meet you where you need us to maximize quality, efficiency, and return on investment.



On behalf of Terracon, we sincerely hope to be a part of your team and look forward to the opportunity to be of service.

Sincerely,
Terracon Consultants, Inc.



Zack "Lem" Dial P.E.
Office Manager | Principal
lem.dial@terracon.com



Scott McLean
Materials Department Manager
scott.mclean@terracon.com

Attachments:
TEC Questionnaire

Technical Evaluation Committee (TEC) Questionnaire
Instructions

- The Technical Evaluation Committee (TEC) Questionnaire shall be used for professional services related to architecture, engineering, or survey projects.
- **The TEC Questionnaire should be completely filled out. Complete and attach ALL sections. Insert “N/A” or “None” if a section does not apply or if there is no information to provide.**
- Questionnaire must be signed by an authorized representative of the Firm. Failure to sign the questionnaire shall result in disqualification of proposer pursuant to J.P. Code of Ordinances Sec. 2-928.
- All subcontractors must be listed in the appropriate section of the Questionnaire. Each subcontractor must provide a complete copy of the TEC Questionnaire, applicable licenses, and any other information required by the advertisement. Failure to provide the subcontractors' complete questionnaire(s), applicable licenses, and any other information required by the advertisement shall result in disqualification of proposer pursuant to J.P. Code of Ordinances Sec. 2-928.
- If additional pages are needed, attach them to the questionnaire and include all applicable information that is required by the questionnaire.

TEC Professional Services Questionnaire

A. Project Name and Advertisement Resolution Number:

SOQ NO. 22-012 Laboratory Services for Inspection of Materials and Equipment for Public Works
Projects Resolution No. 138808

B. Firm Name & Address:

Terracon Consultants, Inc.
524 Elmwood Park Blvd., Suite 170
New Orleans, LA 70123

C. Name, title and contact information of Principal, as defined in Section 2-926 of the Jefferson Parish Code of Ordinances, who is a registered, licensed architect, professional engineer, or surveyor in the State of Louisiana:

Zack "Lem" Dial, P.E., Principal | Office Manager (Meets MPR for number 1 with 16 years of experience)
Terracon Consultants, Inc.
524 Elmwood Park Blvd., Suite 170
New Orleans, LA 70123
lem.dial@terracon.com
(504) 818-3638

D. Name and contact information of employee who is a registered and licensed architect, professional engineer, or surveyor in the State of Louisiana in the applicable discipline. A subcontractor may be substituted here only if the advertised Project requires more than one discipline.

Lizzy Stark, P.E., Professional Engineer, LA No. 44481
Senior Staff Engineer
Terracon Consultants, Inc.
524 Elmwood Park Blvd, Suite 170
New Orleans, Louisiana 70123
lizzy.stark@terracon.com
(504) 818-3638

E. Please provide the number of employees whose primary function corresponds with each category:

5 Administrative	___ Estimators	___ Specification Writers
___ Architects (Licensed)	___ Geologists	___ Structural Engineers
___ Chemical Engineers	2 Geotechnical Engineers	___ Graduate Engineers
___ Civil Engineers	___ Interior Designers	4 Project Managers
___ Construction Inspectors	___ Landscape Architects	___ Clerical
___ Ecologists	___ Land Surveyor	___ Grant/Funding Specialist
___ Electrical Engineers	___ Mechanical Engineers	___ Sanitary Engineers
1 Engineer Intern	3 Environmental Engineers	
___ Professional Land Surveyors		28 TOTAL

F. Is this submittal by a JOINT-VENTURE? Please check: YES NO

If marked "No" skip to Section I. If marked "yes" complete Sections G-H.

TEC Professional Services Questionnaire

G. If submittal is by JOINT-VENTURE, list the firms participating and outline specific areas of responsibility (including administrative, technical, and financial) for each firm. Please attach additional pages if necessary.

1.
N/A

2.

H. Has this JOINT-VENTURE previously worked together? Please check:

YES NO

I. List all subcontractors anticipated for this Project. Please note that all subcontractors must submit a fully completed copy of this questionnaire, applicable licenses, and any other information required by the advertisement. See Jefferson Parish Code of Ordinances, Sec. 2-928(a)(3). Please attach additional pages if necessary.

Name & Address:	Specialty:	Worked with Firm Before (Yes or No):
1. None		
2.		
3.		

J. Please specify the total number of support personnel that may assist in the completion of this Project:

28 _____

TEC Professional Services Questionnaire

K. List the professional in charge, key persons, specialists, and individual consultants anticipated for this Project and provide their relevant information below. If necessary, please attach additional documentation (i.e. resume) that demonstrates the employment history and experience of the Firm's key persons that may assist in the completion of this Project. Please attach additional pages if necessary.

PRINCIPAL:

Name & Title:

Zack "Lem" Dial, P.E.
Office Manager | Principal

Project Assignment:

Principal
Meets MPR for number 1.

Name of Firm with which associated:

Terracon Consultants, Inc.

Years' experience with this Firm:

16

Education: Degree(s)/Year/Specialization:

Bachelor of Science / 2005 / Environmental Engineering

Active registration: Year first registered/discipline:

2009 / Professional Engineer / LA 34872

Other experience and qualifications relevant to the proposed Project:

Mr. Dial is the Office Manager for Terracon's New Orleans and Shreveport Offices. He is responsible for overall administration and operation of the offices, as well as, client development, proposal preparation, laboratory procedures, and technical report preparation. As office manager, he oversees all day-to-day activities for the New Orleans and Shreveport Offices. With 16 years of experience, Mr. Dial is an experienced environmental services professional, having performed various environmental engineering, environmental permitting, remediation, risk-based assessments, and consulting services. These services have included completion of Phase I and Phase II Environmental Site Assessments (ESA), wastewater treatment and permitting, wetland delineations, asbestos and lead surveys, indoor air quality assessments, post-Katrina mold evaluations, underground storage tank (UST) site assessment monitoring and remediation, and preparation of Risk Evaluation/Corrective Action Program (RECAP) Reports and Corrective Action Plans.

TEC Professional Services Questionnaire

<p>K. List the professional in charge, key persons, specialists, and individual consultants anticipated for this Project and provide their relevant information below. If necessary, please attach additional documentation (i.e. resume) that demonstrates the employment history and experience of the Firm's key persons that may assist in the completion of this Project. Please attach additional pages if necessary.</p>
PROFESSIONAL IN CHARGE OF PROJECT:
Name & Title:
Lizzy Stark, P.E. Senior Staff Engineer
Project Assignment:
Senior Staff Engineer <i>Meets MPR for numbers 2 and 3.</i>
Name of Firm with which associated:
Terracon Consultants, Inc.
Years' experience with this Firm:
6
Education: Degree(s)/Year/Specialization:
Bachelor of Science / 2015 / Civil and Environmental Engineering
Active registration: Year first registered/discipline:
2020 / Professional Engineer / LA 44481
Other experience and qualifications relevant to the proposed Project:
<p>Ms. Stark is a Senior Staff Engineer in Terracon's New Orleans, Louisiana Office. In this role, she has prepared reports with geotechnical recommendations, assigned laboratory testing, performed engineering calculations, and utilized various design software (APile, gINT, etc.). She also manages geotechnical and materials testing projects and monitors various aspects of construction quality control (QC) and quality assurance (QA). These projects have included retail developments, levee improvements and airport expansions.</p> <p>She has also acquired construction monitoring experience which includes soil testing, pile foundation installation logging, pile foundation load testing, pile integrity testing, foundation excavation inspection, field density testing, concrete testing, pervious pavement infiltration testing, pavement evaluation using PCI/PASER scoring, DCP and SCP testing of subgrade material, and seismic monitoring.</p>

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:
Name & Title:
Scott McLean Materials Department Manager
Project Assignment:
Project Manager
Name of Firm with which associated:
Terracon Consultants, Inc.
Years' experience with this Firm:
2 (10 years total)
Education: Degree(s)/Year/Specialization:
Bachelor of Science / 2013 / Civil Engineering
Active registration: Year first registered/discipline:
Nuclear Gauge Safety and Hazmat ACI Concrete Technician Grade I
Other experience and qualifications relevant to the proposed Project:
<p>Scott is the Materials Department Manager in Terracon's New Orleans, Louisiana Office. In this role, he monitors various aspects of construction quality control (QC) and quality assurance (QA). He has over 10 years of experience working on a wide range of materials testing projects as well as geotechnical projects. He has worked extensively with soils in south Louisiana. Scott's experience ranges from client development to management of a team of 20+ technicians. He has managed large- and small-scale materials testing projects and has coordinated with project directors, developers, superintendents, and engineers to provide an efficient scope of work.</p> <p>Scott's areas of expertise include post-tension, pre-cast, pre-stress, floor-flatness/floor levelness, slab-on-grade, asphalt, and concrete reinforcing steel inspections as well as concrete cylinder/slump tests, pile logging, pile load testing, soil core sampling, vibration monitoring, site earthwork and nuclear gauge inspections. He has also conducted installation inspections on auger cast, timber, steel pipe, and composite-section piles.</p>

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:

Name & Title:
Sarah Nadelson, E.I. Staff Engineer
Project Assignment:
Staff Engineer
Name of Firm with which associated:
Terracon Consultants, Inc.
Years' experience with this Firm:
5
Education: Degree(s)/Year/Specialization:
Master of Science / 2018 / Civil Engineering Bachelor of Science / 2016 / Civil Engineering
Active registration: Year first registered/discipline:
2018 / Engineer in Training / TX 62304
Other experience and qualifications relevant to the proposed Project:
<p>Ms. Nadelson is a Staff Engineer in Terracon's New Orleans, Louisiana Office. Her experience ranges from geotechnical engineering to construction materials testing for a variety of projects. In this role, she has prepared reports with geotechnical recommendations, assigned laboratory testing, performed engineering calculations, and utilized various design software (APile, gINT, etc.). She also manages geotechnical and materials testing projects and monitors various aspects of construction quality control (QC) and quality assurance (QA). These projects have included commercial buildings, retail developments, power generation facilities, and roadway improvements.</p>

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:

Name & Title:						
Jimmy Allen Construction Materials Technician						
Project Assignment:						
Engineering Technician IV						
Name of Firm with which associated:						
Terracon Consultants, Inc.						
Years' experience with this Firm:						
30 years						
Education: Degree(s)/Year/Specialization:						
N/A						
Active registration: Year first registered/discipline:						
<table border="0"><tr><td>- Radiation Safety Training</td><td>- ACI Concrete Strength Testing Technician</td></tr><tr><td>- ACI Concrete Field Testing Technician Grade I</td><td>- Transport Worker Identification Card (TWIC)</td></tr><tr><td>- Nuclear Moisture / Density Gauge</td><td>- Geosynthetic and Compactive Clay Liners Certification (774-18)</td></tr></table>	- Radiation Safety Training	- ACI Concrete Strength Testing Technician	- ACI Concrete Field Testing Technician Grade I	- Transport Worker Identification Card (TWIC)	- Nuclear Moisture / Density Gauge	- Geosynthetic and Compactive Clay Liners Certification (774-18)
- Radiation Safety Training	- ACI Concrete Strength Testing Technician					
- ACI Concrete Field Testing Technician Grade I	- Transport Worker Identification Card (TWIC)					
- Nuclear Moisture / Density Gauge	- Geosynthetic and Compactive Clay Liners Certification (774-18)					
Other experience and qualifications relevant to the proposed Project:						
<p>Mr. Allen has ten years of experience in the construction materials field as an American Concrete Institute (ACI) certified Construction Materials Technician and 30 years of experience in the industry. In this role, he monitors various aspects of construction quality control (QC) and quality assurance (QA). These projects have included retail developments, hospital and medical office building developments, and United States Army Corp of Engineers (USACE) projects.</p> <p>The construction monitoring experience Jimmy has acquired includes; earthwork observations, soil moisture content and density testing, reinforcing steel inspections, driven pile foundation installation logging and static pile load testing, auger- cast pile installation monitoring, helical pile installation monitoring, grout field testing, concrete compressive strength testing, concrete observations, sample testing and seismic monitoring.</p>						

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:
Name & Title:
Ryan Anderson Engineering Technician II
Project Assignment:
Engineering Technician II
Name of Firm with which associated:
Terracon Consultants, Inc.
Years' experience with this Firm:
2 (15 years total experience)
Education: Degree(s)/Year/Specialization:
College coursework in General Studies, Southeastern Louisiana University
Active registration: Year first registered/discipline:
ACI Concrete Technician Grade I
Other experience and qualifications relevant to the proposed Project:
Mr. Anderson is an engineering technician in Terracon's New Orleans office with 15 years of experience in materials testing. He has extensive asphalt and concrete inspection experience and has performed SFRM inspections, soil density tests, pile load tests, vibration monitoring, asphalt plant inspections, post tension inspections, FFFL inspections, subgrade inspections, masonry grout and mortar inspections.

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:
Name & Title:
Paulette Ramos Engineering Technician I
Project Assignment:
Engineering Technician I
Name of Firm with which associated:
Terracon Consultants, Inc.
Years' experience with this Firm:
3 (10 years total experience)
Education: Degree(s)/Year/Specialization:
Riverdale High School, 1988
Active registration: Year first registered/discipline:
TWIC (thru May 2022) Radiation Safety
Other experience and qualifications relevant to the proposed Project:
Ms. Ramos is an engineering technician in Terracon's New Orleans office with more than 10 years of experience in materials testing. She has performed pile logging, vibration monitoring, and concrete testing for various types of projects.

TEC Professional Services Questionnaire

L. Work by Firm or Joint-Venture members which best illustrates current qualifications relevant to this Project. Please include any and all work performed for Jefferson Parish. Please attach additional pages if necessary.

PROJECT NO. 1

Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
Bucktown Marina Boardwalk Jefferson Parish, LA Jefferson Parish 834 S. Clearview Parkway Harahan, LA 70121 Michelle Gonzalez MGonzalez@jeffparish.net ph: (504) 736-6653	Terracon provided deep foundation observation services during pile driving activities as well as concrete field inspections during construction of the marina boardwalk.	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
09/2020 (A)	N/A	\$17,000

PROJECT NO. 2

Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
JPRD Saints Dr. Girls Complex Metairie, LA Jefferson Parish 6921 Saints Drive Metairie, LA 70003 Leo Webb, Sr. LWebb@jeffparish.net ph: (504) 735-6999	Terracon is providing materials testing and inspection of timber pile installation, earthwork, and concrete for the girl's complex.	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
Ongoing	N/A	\$15,000

TEC Professional Services Questionnaire

PROJECT NO. 3		
Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility	
Lafraniere Park Upgrade - Soccer Fields Jefferson Parish, LA Jefferson Parish 6921 Saints Drive Metairie, LA 70003 Leo Webb, Sr. LWebb@jeffparish.net ph: (504) 735-6999	Terracon provided construction materials testing for the new soccer complex that includes two FIFA Certified synthetic turf fields and lights that will illuminate the fields for added night game availability.	
Completion Date (Actual or estimated)	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
06/2021 (A)	N/A	\$12,000

PROJECT NO. 4		
Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
Blue House Raw Water Intake Pump Station Rehabilitation Jefferson Parish, LA Jefferson Parish 1221 Elmwood Park Blvd. Suite 909 Jefferson, LA 70123 Jerome Wool, P.E. JWool@jeffparish.net ph: (504) 735-6999	Terracon provided materials testing of concrete at the water intake pump station.	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
09/2021 (A)	N/A	\$1,300

TEC Professional Services Questionnaire

PROJECT NO. 5		
Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
<p>Westwego Library Repairs Westwego, LA</p> <p>Jefferson Parish 1221 Elmwood Park Blvd. Suite 906 Jefferson, LA 70123</p> <p>Roy Burst RBurst@jefferson.lib.la.us ph: (504) 319-3744</p>	<p>Terracon provided materials testing of concrete and performed deep foundation observation during construction.</p>	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
11/2021 (A)	N/A	\$10,000

PROJECT NO. 6		
Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
<p>Pontchartrain Gardens Drainage Improvements, Lime Street</p> <p>Jefferson Parish 1221 Elmwood Park Blvd. Suite 906 Jefferson, LA 70123</p> <p>Matt Zeringue MZeringue@jeffparish.net et ph: (504) 735-6999</p>	<p>Terracon is providing construction materials observation and testing (soils, aggregates, and concrete) services. We also provided mix design reviews and recommendations. Materials Testing: Soils, Aggregates, Concrete</p>	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
Ongoing	N/A	\$25,000

TEC Professional Services Questionnaire

PROJECT NO. 7		
Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
Veterans Blvd. and Bonnabel Blvd. Intersection Improvements Metairie, LA Jefferson Parish 1221 Elmwood Park Blvd. Suite 906 Jefferson, LA 70123 Matt Zeringue MZeringue@jeffparish.net ph: (504) 735-6999	Terracon provided materials testing services for soils, concrete, and asphaltic concretes during the construction of the intersection.	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
Ongoing	N/A	\$20,000

PROJECT NO. 8		
Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
West Esplanade Avenue U-Turns Jefferson Parish, LA Jefferson Parish 1221 Elmwood Park Blvd. Suite 906 Jefferson, LA 70123 Matt Zeringue MZeringue@jeffparish.net ph: (504) 735-6999	Terracon provided materials testing services for subgrades, soils, and concrete and during the construction of the new U-turns on West Esplanade Avenue.	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
11/2022 (E)	N/A	\$52,000

TEC Professional Services Questionnaire

PROJECT NO. 9		
Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
<p>Delta Playground Renovations Jefferson Parish, LA</p> <p>Jefferson Parish Department of General Services 200 Derbigny Street Gretna, LA 70053</p> <p>Leo Webb, Sr. LWebb@jeffparish.n et ph: (504) 735- 6999</p>	<p>Terracon provided materials testing services of concrete and soils during construction.</p>	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
12/2020 (A)	N/A	\$5,000

PROJECT NO. 10		
Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
<p>Avenue C - Phase VII Jefferson Parish, LA</p> <p>Jefferson Parish 1221 Elmwood Park Blvd. Suite 906 Jefferson, LA 70123</p> <p>Matt Zeringue MZeringue@jeffparish.net ph: (504) 735-6999</p>	<p>Terracon provided earthwork testing and observation during Building A pad construction.</p>	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
11/2020 (A)	N/A	\$24,000

TEC Professional Services Questionnaire

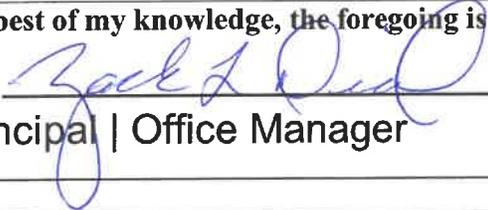
M. List all prior and/or on-going litigation between Firm and Jefferson Parish. Please attach additional pages if necessary.

Parties:		Status/Result of Case:
Plaintiff:	Defendant:	
1. None		
2.		
3.		
4.		

N. Use this space to provide any additional information or description of resources supporting Firm's qualifications for the proposed project.

See attached.

O. To the best of my knowledge, the foregoing is an accurate statement of facts.

Signature:  Print Name: Zack "Lem" Dial, P.E.
 Title: Principal | Office Manager Date: 03/28/2022



Materials Consulting



We continuously apply new processes, methodologies, and techniques to solve project challenges and meet your needs.

WHAT IS SEAMLESS CONSTRUCTION DELIVERY?

Seamless Constructed Delivery is how we deliver our construction materials testing and inspection services every day. We continuously apply new processes, methodologies, and techniques to solve project challenges and meet your needs. Guided by our employee owners' experience and technical capabilities, we have spent decades perfecting our project delivery process, Seamless Constructed Delivery, into four main components: Responsiveness, Performance, Quality, and Delivery.

RESPONSIVENESS



Before the Project

Communication

Communication is essential to successful project delivery. Our team understands the importance of communicating at the onset of the construction phase. By focusing on communication, expectations are established so we can anticipate needs and be quick to respond, especially during critical junctures and milestones in the construction schedule.

At the proposal and project setup phase, our professionals explore the needs of a project so that all parties concur on:

- scope of work,
- scheduling needs,
- safety requirements,
- communication channels and frequency, and
- understanding of challenges.

By gaining a deep understanding of these items, we can anticipate the needs of the project team and proactively develop solutions which will help keep your project moving forward.

Budgeting

Developed by Terracon professionals, the Pricing Tool allows our project managers, estimators, and subject matter experts to work together on delivering consistent pricing, improving manpower forecasting, and drive on-time project delivery of our deliverables. The Pricing Tool allows materials testing budgets to be broken down by task and can be imported directly into our project delivery system. We can monitor our financial performance through our proprietary system.

During the Project

Project Initiation

When it's time to start making site visits, we attend any kick-off or planning meetings with the project team. Our project managers and field personnel also hold pre-task planning meetings to address site needs and bring awareness to all safety concerns. Our *Incident and Injury-Free^{TM1} (IIFTM)* safety culture is strong and woven into all tasks we conduct inside the office, our laboratories and on jobsites. Safety awareness and injury prevention not only helps keep everyone safe.

Behind the scenes, our project managers have setup the project in our proprietary project management and delivery system. Project specifications, manpower needs, budgets, and report distribution lists are setup and ready to start dispatching our field personnel to the project site with all the appropriate information and templates.



Dispatching

Terracon has a robust system that only allows certified field staff to be dispatched to your jobsite for the days' testing needs. When our dispatchers or project managers receive a call from a contractor or client, the system can automatically ensure that we are appropriately assigning certified personnel for the work to be performed. The inspector will receive a calendar invite with all the appropriate information needed to perform the task.

Subconsultant Utilization (if needed)

Terracon understands a successful project incorporates experienced and effective leadership around partnering with small, minority, and/or woman-owned business team members whom we know and trust. Our goal is to create a collaborative team to deliver a successful project while leaving a positive and lasting impact on our communities and partners.

We take great pride in our efforts to promote diverse business participation whenever possible. We have an exceptional record of meeting and exceeding diverse business supplier goals on a wide variety of project sizes.

PERFORMANCE



Performance

The day begins with our technicians and inspectors reviewing the weather forecast and confirming with several project team contacts that the day's activities are on schedule, which greatly helps to reduce unnecessary trips to project sites. Once staff members have verified all planned activities, vehicles are loaded and ready to proceed safely. Upon arriving onsite, our technicians carefully review slated activities and traffic patterns to identify safe places to park and verify that our pre-task planning remains current. When safely parked, we notify your site representative that we are on site and ready to perform our work.

Our technicians utilize the latest technology in performing their work. We will utilize one of our applications on our mobile devices to collect data from our day's activities. These enhanced and robust applications allow us to collect and enter our test and inspection data throughout the day and submit the information digitally. Beyond simplifying the data collection process, the apps offer more advantages. Our apps are tied to our phone's GPS, which references the plan set in our systems. This means our technicians can see where they are standing on the plans when on site. By utilizing our mobile device's GPS, we eliminate misplaced tests in the field and geolocate all testing and inspection data within our deliverables. This geographic information greatly enhances methods for us to deliver data to you.

Our seamless data collection apps offer the following advantages:

- Form-based data collection – no missing information or lost papers
- Safe-Right procedures embedded in the forms
- Geographic information embedded in the report
- Pictures taken on-site are automatically tied to the report
- Dramatically reduced report turn-around times as complete reports can be submitted in the field
- Technicians always know where they are on the plan – no misplaced tests

Technology is great although it remains just a tool and does not replace our technicians' communication in the field. Our technicians know the importance of reporting deviations and failed tests as quickly as possible to limit the amount of non-conforming material being placed. We also make it a point to coordinate with site leaders before leaving the job site for the day. In this way, we do not miss unplanned site operations that may need attention. You can count on our technicians to be proactive in their communications with you.

QUALITY



Quality Leadership and Training

We engage and collaborate with a cross-functional matrix of management roles at the executive, senior, and operations levels as well as with service line leaders to spearhead certain aspects of our quality

program. This structure provides specific quality leadership and processes to address the unique challenges of each service we provide.

Quality oversight includes the selection, vetting, approval, and ongoing evaluation of qualified authorized project reviewers (APRs) who have the responsibility to oversee quality for every project. We regularly evaluate our quality program components at the company and office levels through committees staffed by both executive-level managers and service line leaders to balance operational perspectives with specific service line considerations. Each committee reviews representative project work samples associated with each individual project reviewer to assess the reviewer's effectiveness.

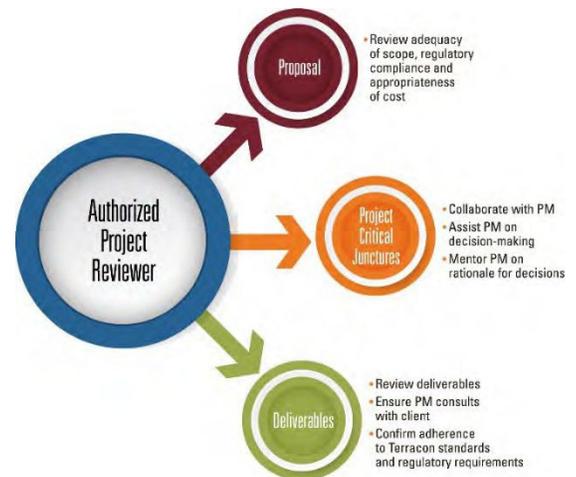
Terracon projects are staffed by well-qualified professionals performing a variety of required tasks. Each person has an individual responsibility to understand your essential needs and project goals. Through training, evaluation, and external certifications and licensing, as appropriate, our staff demonstrates they are qualified and experienced to perform assigned tasks in a manner consistent with applicable standards, regulations, policies, and procedures.

Role of the APRs and SMEs

Project managers and APRs, together with the necessary project management and technical expertise, collaborate to achieve quality objectives at critical project junctures. Depending on size and complexity, some projects may be subject to additional oversight and expert review.

Without exception, every project is assigned an APR who collaborates with the project manager on quality and technical objectives for the duration of the project. The APR is engaged at the proposal stage and remains on the project through execution and closeout.

The APR plays a leading role in our quality program, highlighted by the following four primary areas of project responsibility:



- **Quality Oversight:** The APR reviews the proposal and is involved at the kick-off meeting, and at major milestones, stages, and critical junctures providing direction and insight to guide the project to its successful completion.
- **Coaching:** The APR coaches and advises the project manager on various aspects of the project emphasizing quality, risk, on-time delivery, budget, scope of work, and other client expectations.
- **Risk Management:** The APR guides the project team to properly assess project-specific risk.
- **Safety Awareness:** The APR raises awareness at the project level by communicating with the team to focus attention on their own personal safety and on the safety of all project team members.

If the technical aspects of a project exceed their experience or knowledge, the APR supplements the project team with additional subject matter experts (SMEs). The APR also plays a key role by identifying projects potentially requiring an executive-level oversight provided by a project executive.

We check and maintain our budget, review schedule, and perform projections as necessary so assure that we are on track. Our Project Managers must be certified through Terracon's rigorous PM training program. This information is communicated to you at regular intervals. We are proactive!

Technical Training

Having industry-specific training is critical to providing quality services on our projects. Our field personnel include professional engineers and geologists, engineering technicians and construction inspectors who hold certifications with national agencies such as the American Concrete Institute (ACI), International Code Council (ICC), National Institute for Certification in Engineering Technologies (NICET), American Welding Society (AWS), Post-Tensioning Institute (PTI), Occupational Safety & Health Administration (OSHA) as well as many state-specific certifications and site-specific training requirements.



In addition to external training, Terracon encourages, supports, and provides training and continuing education for all our employees. Terracon University is an internal training and education resource providing many relevant areas of study and

formats for learning including live virtual sessions to recorded video training. We offer courses in safety, engineering, project delivery, industry applications, client development and marketing, and personal and professional development. We can track each employee's learning path as well as ensure, if job related certificates and licenses are required, they receive information about renewals in a timely manner.

Training is not just limited to technicians and inspectors though. Training is also required for our project managers. Each project manager at Terracon is required to pass a rigorous five-part training course before managing a single project. Training courses focus on budget management and projections, schedule management and proactive communications. A Terracon project manager always knows where he or she stands within the budget and the percent completion of the project. We will proactively share this information with you on a regular basis based on your preferences.

Laboratory Accreditations

Our laboratories are fully equipped with geotechnical and construction materials testing equipment and operate under our Corporate Construction Materials Laboratory Quality System Manual (QSM). Our Quality Management System was established using ASTM E329 - *Standard Specification for Agencies Engaged in the Testing and/or Inspection of Materials Used in Construction* and AASHTO R18 - *Establishing and Implementing a Quality System for Construction Materials Testing Laboratories* as the primary guides. Other guides include:

- [ASTM D3740](#) – Standard Practice for Minimum Requirements for Agencies Engaged in the Testing and/or Inspection of Soil and Rock as Used in Engineering Design and Construction
- [ASTM C1077](#) – Standard Practice for Laboratories Testing Concrete and Concrete Aggregates for Use in Construction and Criteria for Laboratory Evaluation
- [ASTM D3666](#) – Standard Specification for Minimum Requirements for Agencies Testing and Inspecting Bituminous Paving Materials



Terracon's QSM and laboratory procedures have been audited by independent outside agencies. Our laboratories have obtained AASHTO accreditation for concrete and aggregate testing through inspection by the Cement and Concrete Reference Laboratory (CCRL) and for soils and asphalt through AASHTO resource (formerly AMRL). In addition, many of our laboratories are also USACE validated.

Deviation Log

The deviation log is a list of non-conforming items noted by our field or laboratory personnel during an observation or test. The purpose of the log is to document the decisions made and actions taken by the contractor to address non-compliant structural components.

Our employee owners strive to help the project team identify potential deviations before they happen. If an item can be quickly addressed by the contractor, the need to add an item to the log may not be necessary. Our field personnel will communicate any discrepancies found at the time of inspection. Timely communication is key during this process.

Our proprietary project delivery system can report and track non-conforming items the same day. Items placed on the deviation log will remain open until an official resolution is agreed upon by all parties. We understand the importance of tracking and communicating these items as soon as possible so your projects can continue to move forward with minimal delay, saving you time and money.

DELIVERY



Delivery

On-time project and data delivery has been an essential goal of Terracon's, and what we strive for on every project we undertake. Our Seamless Constructed Delivery system results from that goal and so much more. To better serve you, Terracon has developed multiple methods to get you the information you need. Our delivery and data systems can be combined to deliver the experience and knowledge you need to make your project successful.

Consulting

Although we have developed many methods for you to receive and review your information, none of these technologies and tools are as important as simply having a conversation about your test result or report. All information in the world written in a report does little good if you don't know what it means or how to utilize it, which is why we call first whenever there may be concern about a report's contents. At Terracon, we don't just report it and forget it. We strive to be your partner working together through the entire process—planning and solutions.

Email

Our automated quality system automatically submits reports to the email address of your choosing as soon as our Project Manager or Approved Project Reviewer (APR) completes their review. We know how important it is for you to have timely report availability notifications, and to have reports "in hand" as soon as possible.

Project Specific Delivery

Every project is different, and although you may appreciate and utilize any of our delivery methods above, your project may require additional steps. Rest assured, Terracon will do whatever it takes to assure that your data and reports are filed where and how they need to be for your project. Whether this includes porting pdf files into a file management system or entering raw results into a separate quality system we will deliver the information to you when and how you need it. We also actively work with many of the third-party program management system providers and always developing new and easier ways to move our information into your project's system.

¹Terracon's safety program incorporates the IIF™ Incident and Injury-Free™ approach to safety trademarked and provided by JMJ Associates.

The Louisiana Professional Engineering and Land Surveying Board has the following information on file:

Name: Terracon Consultants, Inc.
 Public Address: Ms. Barbara Boerner10841 South Ridgeview Road
 Olathe, Kansas 66061

**License/Certificate Information w/
Supervision**

License	Status	First Issuance Date	Expiration Date	Supervisor(s)
EF.0002749	Active	12/18/2001	03/31/2022	Mr. Stephen Eugene Greaber # PE.0026107 - Active ; Mr. Daren L. Thomas # PE.0036187 - Active ; Mr. Zack Lemual Dial III # PE.0034872 - Active ; Ms. Laura Jean Campa # PE.0040847 - Active



LOUISIANA PROFESSIONAL ENGINEERING AND LAND SURVEYING BOARD

As of 3/8/2022 the Louisiana Professional Engineering and Land Surveying Board (LAPELS) has the following information on file:

Ms. Alice E. Stark
524 Elmwood Park Boulevard, Suite 170
New Orleans, Louisiana 70123

	LOUISIANA PROFESSIONAL ENGINEERING & LAND SURVEYING BOARD (LAPELS)
	9643 Brookline Avenue, Suite 121 Baton Rouge, LA 70809 Phone (225) 925-6291 www.lapels.com
Ms. Alice E. Stark	
License/Certificate Type - Number	Expiration Date
PE.0044481	09/30/2022
Status: Active	
<p>Please be advised that your license must be in "Active" status in order for you to (a) provide or offer to provide engineering or land surveying services in Louisiana or (b) use the words "engineer", "engineering", "land surveyor", "land surveying" or any modification or derivative thereof in your name or in connection with your business or activities in Louisiana. Licensees whose licenses are in "Retired", "Inactive", or "Expired" status are prohibited from engaging in the activities described above in items (a) and (b).</p> <p>LA R. S. 37:689 requires firms practicing or offering to practice engineering or land surveying in the state of Louisiana to be licensed by the Board prior to offering such services.</p>	

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Print and keep the following information for your record or verification. The pocket card may also be printed on card stock or laminated to keep with you as license/certificate verification.

Disclaimer

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LOUISIANA PROFESSIONAL ENGINEERING AND LAND SURVEYING BOARD

As of 3/28/2022 the Louisiana Professional Engineering and Land Surveying Board (LAPELS) has the following information on file:

Mr. Zack Lemual Dial III
22 East Levert Drive
Luling, Louisiana 70070

Renewal in Process

	LOUISIANA PROFESSIONAL ENGINEERING & LAND SURVEYING BOARD (LAPELS)	
	9643 Brookline Avenue, Suite 121 Baton Rouge, LA 70809 Phone (225) 925-6291 www.lapels.com	
Mr. Zack Lemual Dial III		
License/Certificate Type - Number	Expiration Date	
PE.0034872	03/31/2022	
Status: Active		
<p>Please be advised that your license must be in "Active" status in order for you to (a) provide or offer to provide engineering or land surveying services in Louisiana or (b) use the words "engineer", "engineering", "land surveyor", "land surveying" or any modification or derivative thereof in your name or in connection with your business or activities in Louisiana. Licensees whose licenses are in "Retired", "Inactive", or "Expired" status are prohibited from engaging in the activities described above in items (a) and (b).</p> <p>LA R. S. 37:689 requires firms practicing or offering to practice engineering or land surveying in the state of Louisiana to be licensed by the Board prior to offering such services.</p>		

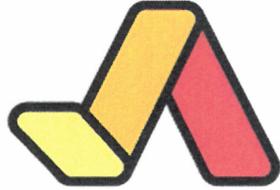
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AASHTO
ACCREDITED

CERTIFICATE OF ACCREDITATION

AMERICAN ASSOCIATION
OF STATE HIGHWAY AND
TRANSPORTATION OFFICIALS

AASHTO

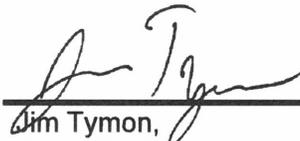
Terracon Consultants, Inc.

in

New Orleans, Louisiana, USA

has demonstrated proficiency for the testing of construction materials and has conformed to the requirements established in AASHTO R 18 and the AASHTO Accreditation policies established by the AASHTO Committee on Materials and Pavements.

The scope of accreditation can be viewed on the Directory of AASHTO Accredited Laboratories (aashtoresource.org).



Jim Tymon,
AASHTO Executive Director



Moe Jamshidi,
AASHTO COMP Chair

This certificate was generated on 03/14/2022 at 11:56 AM Eastern Time. Please confirm the current accreditation status of this laboratory at aashtoresource.org/aap/accreditation-directory



SCOPE OF AASHTO ACCREDITATION FOR:

Terracon Consultants, Inc.
in New Orleans, Louisiana, USA

Quality Management System

Standard:	Accredited Since:
R18 Establishing and Implementing a Quality System for Construction Materials Testing Laboratories	01/03/2012
C1077 (Aggregate) Laboratories Testing Concrete and Concrete Aggregates	07/27/2012
C1077 (Concrete) Laboratories Testing Concrete and Concrete Aggregates	12/07/2012
D3740 (Soil) Minimum Requirements for Agencies Engaged in Testing and/or Inspection of Soil and Rock as Used in Engineering Design and Construction	02/02/2012
E329 (Aggregate) Standard Specification for Agencies Engaged in the Testing and/or Inspection of Materials Used in Construction	07/27/2012
E329 (Concrete) Standard Specification for Agencies Engaged in the Testing and/or Inspection of Materials Used in Construction	12/07/2012
E329 (Soil) Standard Specification for Agencies Engaged in the Testing and/or Inspection of Materials Used in Construction	06/03/2014



SCOPE OF AASHTO ACCREDITATION FOR:

Terracon Consultants, Inc.
in New Orleans, Louisiana, USA

Asphalt Mixture

Standard:

Accredited Since:

T166 (Cores) Bulk Specific Gravity of Compacted Hot Mix Asphalt Using Saturated Surface-Dry Specimens (Cores)	05/09/2016
D2726 (Cores) Bulk Specific Gravity of Compacted Hot Mix Asphalt Using Saturated Surface-Dry Specimens (Cores)	05/09/2016



SCOPE OF AASHTO ACCREDITATION FOR:

Terracon Consultants, Inc.
in New Orleans, Louisiana, USA

Soil

Standard:	Accredited Since:
R58 Dry Preparation of Disturbed Soil and Soil Aggregate Samples for Test	01/03/2012
T88 Particle Size Analysis of Soils by Hydrometer	01/03/2012
T89 Determining the Liquid Limit of Soils (Atterberg Limits)	01/03/2012
T90 Plastic Limit of Soils (Atterberg Limits)	01/03/2012
T99 The Moisture-Density Relations of Soils Using a 5.5 lb [2.5 kg] Rammer and a 12 in. [305 mm] Drop	01/03/2012
T100 Specific Gravity of Soils	01/03/2012
T180 Moisture-Density Relations of Soils Using a 10 lb [4.54 kg] Rammer and an 18 in. [457 mm] Drop	01/03/2012
T208 Unconfined Compressive Strength of Cohesive Soil	12/30/2013
T216 One-Dimensional Consolidation Properties of Soils Using Incremental Loading	06/21/2021
T265 Laboratory Determination of Moisture Content of Soils	01/03/2012
T267 Determination of Organic Content in Soils by Loss on Ignition	01/03/2012
T296 Unconsolidated, Undrained Compressive Strength of Cohesive Soils in Triaxial Compression	07/13/2018
T310 In-Place Density and Moisture Content of Soil and Soil-Aggregate by Nuclear Methods (Shallow Depth)	01/03/2012
D421 Dry Preparation of Disturbed Soil and Soil Aggregate Samples for Test	01/03/2012
D422 Particle Size Analysis of Soils by Hydrometer	01/03/2012
D698 The Moisture-Density Relations of Soils Using a 5.5 lb [2.5 kg] Rammer and a 12 in. [305 mm] Drop	01/03/2012
D854 Specific Gravity of Soils	01/03/2012
D1140 Amount of Material in Soils Finer than the No. 200 (75- μ m) Sieve	01/03/2012
D1557 Moisture-Density Relations of Soils Using a 10 lb [4.54 kg] Rammer and an 18 in. [457 mm] Drop	01/03/2012
D2166 Unconfined Compressive Strength of Cohesive Soil	12/30/2013
D2216 Laboratory Determination of Moisture Content of Soils	01/03/2012
D2435 One-Dimensional Consolidation Properties of Soils Using Incremental Loading	06/21/2021
D2487 Classification of Soils for Engineering Purposes (Unified Soil Classification System)	01/03/2012



SCOPE OF AASHTO ACCREDITATION FOR:

Terracon Consultants, Inc.
in New Orleans, Louisiana, USA

Soil (Continued)

Standard:	Accredited Since:
D2488 Description and Identification of Soils (Visual-Manual Procedure)	01/03/2012
D2850 Unconsolidated, Undrained Compressive Strength of Cohesive Soils in Triaxial Compression	07/13/2018
D2974 Determination of Organic Content in Soils by Loss on Ignition	01/03/2012
D4318 Determining the Liquid Limit of Soils (Atterberg Limits)	01/03/2012
D4318 Plastic Limit of Soils (Atterberg Limits)	07/13/2018
D4546 One-Dimensional Swell or Settlement Potential of Cohesive Soils	06/21/2021
D4643 Determination of Water (Moisture) Content of Soil by Microwave Oven Heating	12/30/2013
D6938 In-Place Density and Moisture Content of Soil and Soil-Aggregate by Nuclear Methods (Shallow Depth)	01/03/2012



SCOPE OF AASHTO ACCREDITATION FOR:

Terracon Consultants, Inc.
in New Orleans, Louisiana, USA

Aggregate

Standard:	Accredited Since:
R76 Reducing Samples of Aggregate to Testing Size	07/27/2012
R90 Sampling Aggregate	07/13/2018
T11 Materials Finer Than 75- μ m (No. 200) Sieve in Mineral Aggregates by Washing	07/27/2012
T19 Bulk Density ("Unit Weight") and Voids in Aggregate	07/27/2012
T21 Organic Impurities in Fine Aggregates for Concrete	07/27/2012
T27 Sieve Analysis of Fine and Coarse Aggregates	07/27/2012
T84 Specific Gravity (Relative Density) and Absorption of Fine Aggregate	07/27/2012
T85 Specific Gravity and Absorption of Coarse Aggregate	07/27/2012
T255 Total Moisture Content of Aggregate by Drying	07/27/2012
C29 Bulk Density ("Unit Weight") and Voids in Aggregate	07/27/2012
C40 Organic Impurities in Fine Aggregates for Concrete	07/27/2012
C117 Materials Finer Than 75- μ m (No. 200) Sieve in Mineral Aggregates by Washing	07/27/2012
C127 Specific Gravity and Absorption of Coarse Aggregate	07/27/2012
C128 Specific Gravity (Relative Density) and Absorption of Fine Aggregate	07/27/2012
C136 Sieve Analysis of Fine and Coarse Aggregates	07/27/2012
C566 Total Moisture Content of Aggregate by Drying	07/27/2012
C702 Reducing Samples of Aggregate to Testing Size	07/27/2012
D75 Sampling Aggregate	07/13/2018



SCOPE OF AASHTO ACCREDITATION FOR:

Terracon Consultants, Inc.
in New Orleans, Louisiana, USA

Concrete

Standard:

Accredited Since:

M201	Moist Cabinets, Moist Rooms, and Water Storage Tanks Used in the testing of Hydraulic Cements and Concretes	07/27/2012
R60	Sampling Freshly Mixed Concrete	07/27/2012
T22	Compressive Strength of Cylindrical Concrete Specimens	07/27/2012
T23	Making and Curing Concrete Test Specimens in the Field	08/15/2016
T24	Obtaining and Testing Drilled Cores and Sawed Beams of Concrete	01/02/2015
T97	Flexural Strength of Concrete (Using Simple Beam with Third-Point Loading)	08/15/2016
T119	Slump of Hydraulic Cement Concrete	07/27/2012
T121	Density (Unit Weight), Yield, and Air Content of Concrete	07/27/2012
T152	Air Content of Freshly Mixed Concrete by the Pressure Method	07/27/2012
T196	Air Content of Freshly Mixed Concrete by the Volumetric Method	07/27/2012
T231 (5000 psi and below)	Capping Cylindrical Concrete Specimens	12/17/2019
T309	Temperature of Freshly Mixed Portland Cement Concrete	07/27/2012
C31	Making and Curing Concrete Test Specimens in the Field	08/15/2016
C39	Compressive Strength of Cylindrical Concrete Specimens	07/27/2012
C42	Obtaining and Testing Drilled Cores and Sawed Beams of Concrete	01/02/2015
C78	Flexural Strength of Concrete (Using Simple Beam with Third-Point Loading)	08/15/2016
C138	Density (Unit Weight), Yield, and Air Content of Concrete	07/27/2012
C143	Slump of Hydraulic Cement Concrete	07/27/2012
C172	Sampling Freshly Mixed Concrete	07/27/2012
C173	Air Content of Freshly Mixed Concrete by the Volumetric Method	07/27/2012
C231	Air Content of Freshly Mixed Concrete by the Pressure Method	07/27/2012
C511	Moist Cabinets, Moist Rooms, and Water Storage Tanks Used in the testing of Hydraulic Cements and Concretes	07/27/2012
C617 (5000 psi and below)	Capping Cylindrical Concrete Specimens	12/17/2019



SCOPE OF AASHTO ACCREDITATION FOR:

Terracon Consultants, Inc.
in New Orleans, Louisiana, USA

Concrete (Continued)

Standard:	Accredited Since:
C1064 Temperature of Freshly Mixed Portland Cement Concrete	07/27/2012
C1231 (7000 psi and below) Use of Unbonded Caps in Determination of Compressive Strength of Hardened Concrete Cylinders	07/27/2012
C1542 Measuring Length of Concrete Cores	01/02/2015



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SCOPE OF AASHTO ACCREDITATION FOR:

Terracon Consultants, Inc.

in New Orleans, Louisiana, USA

Masonry

Standard:

Accredited Since:

M201 Moist Cabinets, Moist Rooms, and Water Storage Tanks Used in the testing of Hydraulic Cements and Concretes	07/27/2012
C511 Moist Cabinets, Moist Rooms, and Water Storage Tanks Used in the testing of Hydraulic Cements and Concretes	07/27/2012
C1019 Sampling and Testing Grout	07/27/2012