

SAN DIEGO ASSOCIATION OF GEOLOGISTS

<http://www.sandiegoeologists.org>

SDAG MEETING ANNOUNCEMENT

Wednesday September 16th, 2020

Joint Meeting With SDAG and GRA

Cannabis Cultivation Regulation and Environmental Concerns for Southern California

**Presented by:
Brian Covellone,
Santa Ana Regional Water Quality Control Board**

Where: In the comfort of your own home.

Password: 742352

Phone one-tap: US: +16699006833,,98398090991# or
+19292056099,,98398090991#

Meeting URL: [https://dudek.zoom.us/j/98398090991?
pwd=Q2hBeXB2UIJzRUoyeDZQdEdYnJExUT09](https://dudek.zoom.us/j/98398090991?pwd=Q2hBeXB2UIJzRUoyeDZQdEdYnJExUT09)

Join by Telephone

Dial:

US: +1 669 900 6833 or +1 929 205 6099

Meeting ID: 983 9809 0991

When:

6:15 to 7:00 – social hour via web platform (Zoom)

7:00 to 7:10 – announcements

7:10 to 8:10 – presentation

8:10 to 8:25 – questions

ABSTRACTS & BIOS

Cannabis Cultivation Regulation and Environmental Concerns for Southern California:

Brian Covellone, Engineering Geo with Santa Ana Regional Water Quality Control Board

ABSTRACT:

The passage of Proposition 64 ushered in a new era of legal cannabis cultivation and recreational consumption in California. However, local jurisdictions have ultimate control over the distribution and style of commercial cannabis cultivation throughout the State, and many cities and counties in southern California prohibit commercial cannabis cultivation. Enforcement of illicit cannabis cultivation for the purpose of the protection of water quality and habitat plays an important role in the South Coast Cannabis Cultivation Unit's program. Agencies such as the State and Regional Water Boards and the Department of Fish and Wildlife work together with local law enforcement to document environmental crimes and violations of California Code.

In the first two years after Proposition 64, the South Coast Cannabis Cultivation Unit inspected greater than 200 illicit cannabis cultivation sites in southern coastal California. Observations from those inspections identified threats to Clean Water Act 303(d) waterbodies and Regional Water Board priority water systems, and observed illegal and unauthorized pesticide use, and discharges of wastes such as pesticides, fertilizers, hydrocarbons, litter, and sewage to California's land and waterways.

Brian Covellone Bio:

Brian Covellone is an engineering geologist at the Santa Ana Regional Water Quality Control Board in the South Coast Cannabis Cultivation Unit. Brian works to implement the State's Cannabis Cultivation Policy and in enforcement of illicit cannabis cultivations within the San Diego, Santa Ana, and Los Angeles Regional Water Boards. Prior to joining the Regional Water Boards, Brian worked in the private environmental industry in site assessment and remediation throughout southern California and as a research scientist developing seismic wave speed models and with seismic source discrimination. Brian graduated from the University of Rhode Island with a BS in Geology and Geological Oceanography and a PhD in Oceanography specializing in marine geology and geophysics.

UPCOMING MEETINGS

Meetings are usually held on the 3rd Wednesday of the month may change to accommodate the speaker and meeting place schedules. Check the SDAG website for updates

October 23-25, 2020	SDAG Annual Field Trip Temecula
November, 2020	TBD
December, 2020	TBD

2019 SDAG EXECUTIVE COMMITTEE

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SDAG PRESIDENT'S CORNER

August, 2020

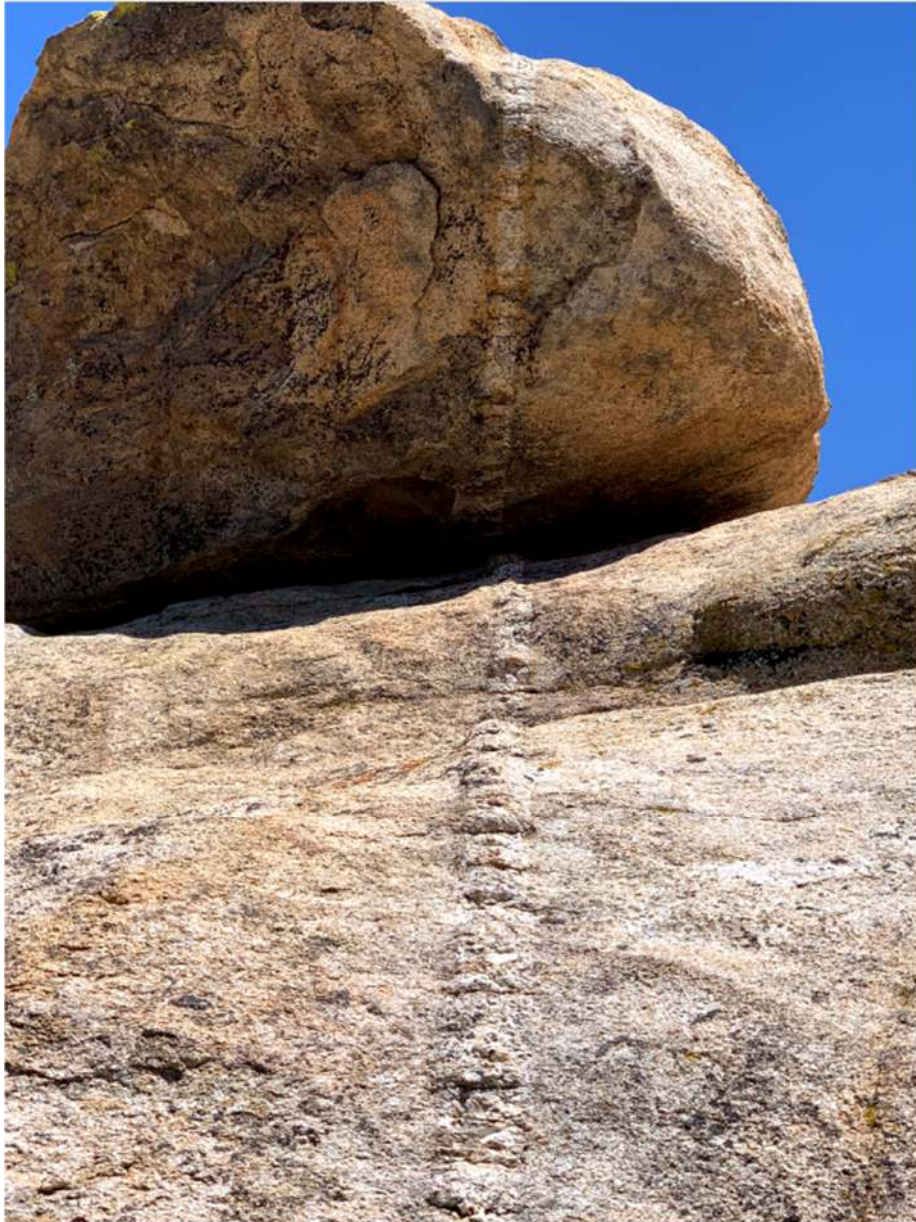
Hi SDAG Members,

Hope you are all doing well. Thank you to everyone for continuing to support SDAG and tune into our web presentations! I want to throw out a big thank you to Dave Schug and Wes Danskin for presenting in August. The talk was excellent and fun to hear about our local hydro-geology. It was a joint meeting with Groundwater Resources Association (GRA) and we had a turnout of about 60 people. There were lots of great questions after the talk as well, so thank you all for your participation. Please be sure to tune in to our meeting this month. Brian Covellone, an engineering geologist with Santa Ana Regional Water Quality Control Board will be talking on environmental regulations surrounding cannabis cultivation in Southern California. We are also expecting some updates on our Annual Field Trip to Temecula in October. Our Vice President Luke Weidman will update us on that. Looking forward to seeing all of you soon (via web that is). Cheers!

-Adam Avakian

PHOTOS OF THE MONTH

If you would like to submit a photo, email them to secretary@sandiegogeologists.org and I will try and put them in the newsletter. Provide a short description of the picture.



Picture of a granitic rock outcrop near Jacumba. Photographer: Richard McCarthy

Support SDAG/SDGS using AmazonSmile



What is AmazonSmile?

AmazonSmile is an automatic way for you to support the **“San Diego Geological Society”** (SDGS) SDAG’s 501(c)(3) as your favorite public charitable organization every time you shop on Amazon at no cost to you at smile.amazon.com.

How do I select a charitable organization to support when shopping on AmazonSmile?

On your first visit to AmazonSmile smile.amazon.com, you need to select a charitable organization to receive donations from eligible purchases before you begin shopping. Please select the **San Diego Geological Society**. Amazon will remember your selection, and then every eligible purchase you make at smile.amazon.com will result in a donation to SDGS (SDAG).

How much of my purchase does Amazon donate?

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SDAG Research Tool

SDAG RESEARCH TOOL - A comprehensive listing of all papers published by SDAG, whether as annual field trip guidebooks or special publications, is now available on our website. Entries are sorted by primary author, or chronologically by date of publication, starting with our first guidebook in 1972, from Coast to Cactus in 2014, and finally on the Julian 'Road to Gold' in 2017. These can be accessed or downloaded as .pdf files. They are fully searchable in Adobe Reader or Acrobat, so if you are researching a topic, "oikocryst" for example, you can search for that keyword. This listing will be updated as new books are published. Thanks to Greg Peterson and Hargis + Associates, Inc., for making this possible. See the links below:

http://www.sandiegogeologists.org/SDAG_Pubs_authors.pdf

http://www.sandiegogeologists.org/SDAG_Pubs_chronological.pdf

Interactive Fault Map for San Diego - Tijuana

As part of the update for the San Diego-Tijuana Earthquake Planning Scenario, Working Group No. 1's "Fault Map Subcommittee" completed the first publicly available bi-national active and potentially active fault map (http://sandiego.eeri.org/?page_id=265). This interactive GIS map includes the first publicly available active and potentially fault map locations from the City of San Diego. The map also integrated the faults south of the border for a bi-national cross border view. This map is an on-going project as our knowledge increases about local active and potentially active faults.

You can expand the map legend on the left side to select layers that can be turned on or off for the map view. You can also select from 1 of 12 base maps at the base map icon. You can click on the fault line in your map layer view to see the meta-data source. In addition, the City of San Diego Seismic Safety Study Geologic Hazards & Faults Maps are available in the layer titled "GeoHaz SD City." Please note that the City "Zone 12 Potentially Active" fault layers was not included in this data, therefore you will need to use the City Maps to find Zone 12.

The Fault Map link is available at: http://www.sandiegogeologists.org/Faults_map.html

Please contact Diane Murbach (dianemurbach@gmail.com 619-865-4333), Chair for the SDTJ Earthquake Scenario Working Group #1 - Earth Science, if you have any questions, or see any errors on this new fault map.

I would like to thank Carolyn Glockhoff for her endless GIS work, Jim Quinn and the City for providing their data and time, Jerry Treiman with CGS for his time preparing the Surface Rupture and providing their new State fault data layer, and Luis Mendoza at CICESE for providing the faults south of the border. Please contact Diane Murbach (dianemurbach@gmail.com), Chair for the SD-TJ Earthquake Scenario Working Group #1 - Earth Science, if you have any questions, or see any errors on this new fault map.

Diane Murbach (619) 865-4333

Engineering Geologist, C.E.G.

www.murbachgeotech.com

Request for 2020 SDAG/SDGS Publication Sponsors

On behalf of the San Diego Geological Society, Inc. (SDGS), a public benefit 501(c)3 nonprofit educational corporation, we would like to request tax deductible Donations for our San Diego Association of Geologists (SDAG) group. The list of paid Sponsors and the forms to become a Sponsor are located on the SDAG web site at: <http://www.sandiegogeologists.org/Sponsors.html>.

Your donation will further the SDGS mission to promote geology and related fields in the greater San Diego region, operating through the San Diego Association of Geologists (SDAG), a committee of SDGS. To achieve our primary educational objective, we organize frequent field trips and maintain a program of monthly meetings featuring speakers on current geological topics. We also publish field trip guidebooks and other publications related to geology and natural history. We encourage scholarship and research by awarding scholarships from the elementary through graduate levels. With your \$100 "EMERALD" donation, your name/business will be listed as a sponsor on the SDAG web site (<http://www.sandiegogeologists.org/>) and in the monthly SDAG meeting newsletters. With your \$500 "RUBY" or \$1,000 or more "DIAMOND" level donation, your business card will also be included on the SDAG web site and in the monthly SDAG meeting newsletters. In addition, as a "\$1,000 or more DIAMOND" level donation you will be presented with a thank you plaque.

Should you have any questions regarding a Sponsorship, please contact our non-profit SDGS Secretary (Diane Murbach) at 619-865-4333.

Call for Articles

SDAG invites members to submit articles on their current research or an interesting project they are working on for publication in the monthly newsletter. The article should be no more than 1 page in length. Photos are welcomed; too. Please submit articles to the SDAG secretary via email.

Geo Job Listings

Bay West LLC is a recognized leader delivering Environmental Solutions nationwide. Now in our 44th year of service, we are continuing to grow and expand on a national platform. Bay West offers a diverse mix of expertise in the following areas; environmental consulting, engineering, emergency response, waste management and Federal contracting services.

Bay West has opened a San Diego, CA office and is seeking a mid-level **California licensed Professional Geologist** with hands-on experience supporting Federal Project Managers who enjoys a variety of responsibilities that include working in the field as well as in the office. This role is considered a career-track position to become a Federal Project Manager or Senior Technical Advisor who provides support to Project Managers.

Responsibilities:

Responsible for supporting multiple concurrent long-term projects from cradle to grave. Office administrative tasks will include supporting estimates and proposals, effectively qualifying and selecting subcontractors, supporting contracts to maintain budgets and track schedules (office and field). A significant percentage of the individual's time will be spent authoring and reviewing technical documents including Work Plans, Engineering Evaluation/Cost Analyses (EE/CA), Uniform Federal Policy Quality Assurance Project Plans (UFP-QAPPs), Technical Memoranda, Records of Decision (ROD), Remedial Investigation/Feasibility Studies (RI/FS), Proposed Plans, and periodic monitoring reports. The individual will assist the project manager with the coordination of field activities and support various projects being performed under CERCLA/RCRA on active military installations, Formerly Used Defense Sites (FUDS), and Base Realignment and Closure (BRAC) facilities. The individual may be asked to maintain and/or create project schedules using Microsoft Project or Primavera.

Requirements:

- Bachelor's degree in Engineering, Geology, Environmental Science, or a related technical field.
- Registered California PG or PE
- Minimum 5 years of project support experience; with federal environmental restoration projects under the DoD (including USACE, USAEC, AFCEC & NAVFAC and/or US-EPA).
- Thorough understanding of RCRA and CERCLA processes.
- Must have the willingness and ability to accurately interpret and apply knowledge of environmental theories, processes, and state and federal reporting requirements.
- A thorough working knowledge of Microsoft Word and Excel are required with strong data management skills.
- Outstanding technical writing and communication skills.
- Ability to present technical site summaries to the project team.
- Must foster friendly, positive, productive, and team relationships.
- Ability to read and understand maps, schematic drawings, diagrams, and instruction manuals.
- Must be willing and able to travel between 20% - 25% of the time.
- The successful candidate must be capable of receiving a US Government security clearance.
- US Citizenship Required

Preferred Requirements:

- 40 Hour HAZWOPER is preferred but not a requirement (Bay West will provide this training for candidates that currently lack it).
- 30 Hour USACE Construction Quality Management Certification
- Experience working with MS Project and Primavera
- Experience working for an environmental consulting firm.
- College coursework in organic and inorganic chemistry and contaminant fate and transport.

Compensation:

In exchange for your high performance and team participation, Bay West offers long term growth potential, competitive salary and benefits package, and bonus potential in a business casual environment.

Bay West is an equal opportunity employer that recognizes the value of a diverse workforce. Bay West is an EEO/AA Employer Minority/Female/Disabled/Veteran/Sexual Orientation/Gender Identity employer.

Liz Schmillen

Director, Human Resources

direct: 651-291-3490 · cell: 952-239-8693

lizs@baywest.com

www.baywest.com

Brian F. Smith and Associates (BFSA) has immediate openings for several qualified individuals including Paleontological Monitors for projects in San Diego, Riverside, Orange, and San Bernardino Counties. Positions require a B.A. or M.A. in geology, paleontology, or a related field. The selected applicant(s) for the position of field monitor that holds a bachelor's degree in geological sciences can look forward to working under the responsible charge of BFSA's senior paleontologist, who is also a California Professional Geologist (PG). BFSA is the only company in San Diego County providing paleontological consulting with oversight by a California PG as part of its full-time staff, and one of the few in southern California. As a member of the BFSA monitoring staff performing professional geologic work, the selected applicant may gain time-credits for professional experience toward meeting California PG application requirements. Compensation will depend upon qualifications and ability. Please send or fax a current resume, or vita and references to resumes@bfsa-ca.com or fax to 858-679-9896.

Brian F. Smith and Associates (www.bfsa-ca.com) offers consulting services pertaining to all aspects of paleontology, archaeology, biology, history, air, traffic, noise and investigations throughout the southwest, primarily in southern California. The combined experience of the principal consultants and associates represents over 100 years of involvement in the study of the history and prehistory of this region. BFSA's capabilities are highlighted by the range of current projects, including construction monitoring, data recovery mitigation programs, historical structure assessments, surveys and evaluations for both the California Environmental Quality Act (CEQA) and Section 106 of National Historic Preservation Act (NHPA).

Project Geologist Wanted

R. T. Frankian & Associates, Inc.

R. T. Frankian & Associates, Inc., a geotechnical engineering and engineering geology consulting firm since 1963, seeks a qualified individual for Project Geologist position. This position is to work on medium to large size land development-type projects, as well as to develop work within the public sector. The successful candidate must meet the following criteria.

The Project Geologist must -

- Possess BS/BA in Geology, with classes in geologic field mapping, stratigraphy/sedimentology, and structural geology
- Have 1-3 years experience in hillside grading in L. A. County or Southern California
- Be able to perform downhole boring logging, test pit logging, field supervision, slope stability analysis
- Be able to assist CEG with various aspects of land planning and development projects, **especially** field-related aspects
- Be willing to work in various aspects of the job (field, office, and as needed inspection)
- Possess excellent written and verbal communication skills, as well as excellent interpersonal skills
- Being a PG in the State of California is preferred but not required

Senior Engineering Geologist Wanted

R. T. Frankian & Associates, Inc.

R. T. Frankian & Associates, Inc., a geotechnical engineering and engineering geology consulting firm since 1963, seeks a qualified individual for the Senior Engineering Geologist position. This position is to work on medium to large size land development-type projects, as well as to develop work within the public sector. The successful candidate must meet the following criteria.

The Senior Engineering Geologist must -

- Possess BS/BA in Geology, with classes in geologic field mapping, stratigraphy/sedimentology, and structural geology
- Have 3-5 years experience in hillside grading in L. A. County or Southern California
- Be able to perform downhole boring logging, test pit logging, field supervision, slope stability analysis
- Possess excellent written and verbal communication skills, as well as excellent interpersonal skills
- Be willing to work in various aspects of the job (field, office, and as needed inspection)
- Be a CEG in the State of California

R. T. Frankian & Associates, Inc., offers a competitive salary, commensurate with experience and abilities, and a benefits package.

Email resumes to resumes@rtfrankian.com.

GEI Consultants, Inc. is a leading consulting engineering and environmental firm ranked #92 in the ENR top 500 (2018), with over 800 employees in multiple offices throughout the U.S. and Canada. We serve hundreds of government, energy, industry and institutional clients, and have completed 50,000 project engagements throughout the United States, Canada, and more than 20 other countries. Our technical experts are involved in dozens of specialty services emanating from our core solutions in water, energy, buildings, infrastructure and industrial.

We are seeking a full-time **Senior Engineering Geologist** for our Carlsbad, CA office. Experience in geologic investigations for dams and other water infrastructure projects is a plus.

Essential Responsibilities & Duties

- Manage the technical, financial, and client relationship aspects of a variety of geologic/geotechnical engineering projects throughout the country, with a geographic emphasis in California.
- Prepare technical scopes of work and budgets for proposals, and prepare requests for proposals for subcontractor services.
- Plan and lead the implementation of geologic/geotechnical site assessments and subsurface investigations, which include: field mapping, aerial photograph interpretation, rock and soil borings, surface and downhole geophysics, LiDAR analysis, preparation of technical reports, and providing technical oversight of subcontractors including review/approval of invoices and work proposals.
- Participate actively in professional organizations and conferences; deliver presentations, and write technical papers.
- Generate new business.
- Prepare and deliver technical presentations to clients and regulators.
- This position has a field component; travel, and some overnight travel are required.

Minimum Qualifications

- B.S. in Geology; M.S. is a plus.
- P.G. and C.E.G. with registration in California.
- 10+ years of previous professional experience in engineering geology.
- Excellent technical report writing and communication skills.
- Willingness and ability to travel on short-term assignments as needed.
- Valid U.S. driver's license.

GEI is an EEO/AA/M/F/Vet/Disability employer

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For other opportunities within GEI, go to: <https://geiconsultantsinc.ourcareerpages.com/>

PROJECT GEOLOGIST

Geotechnical Exploration, Inc., a geotechnical engineering company founded in 1976, is seeking a qualified individual for a Project Geologist position available immediately. Position duties, criteria & requirements are as follows:

- Manage and/or perform all phases of a wide variety of development/construction projects
- Supervise the work of staff geologists and technicians
- Prepare geologic/geotechnical reports and review reports prepared by staff geologist and engineers
- Prepare and review boring and trench logs
- Perform and supervise field exploration programs, background reviews, and geological mapping
- Prepare and present proposals, scopes of work and budgets for new projects
- Interface with the client and team to proactively troubleshoot and problem-solve using practical, client-focused solutions
- Manage projects, budgets, scope, change orders and collections (from start to finish)

A strong command of regional soils and rock identification and properties, geologic hazards identification, and all applicable forms of construction observation/testing is mandatory. In addition, the qualified individual should

- Be technically competent in routine geotechnical matters and have a complete understanding of geologic factors which affect engineering design
- Have excellent communication skills (written and verbal)
- Have strong computer skills - Word, Excel, and Google Earth
- Be able to organize priorities and multi-task effectively in a team environment and play well with others
- Have a BA/BSc in Geology plus a minimum of 5 years project-level experience

Must have Professional Geologist Registration for State of California

Certified Engineering Geologist for State of California is preferred but not required

Salary commensurate with experience. Please email resumes to info@gei-sd.com

Vacancy in the Site Restoration and Agricultural Program Unit

The San Diego Water Board, part of the California Environmental Protection Agency, has an opening for a full-time Engineering Geologist position in San Diego. The position involves a wide range of geological work and projects throughout a large area of Southern California. Get your applications in now for this exciting opportunity to work with other environmental professionals to protect and restore our natural resources.

Complete applications are due February 19, 2020. Get started now and the first step is to make sure you are on the eligibility list by taking the “exam” here:

<https://www.jobs.ca.gov/CalHrPublic/Exams/Bulletin.aspx?examCD=8PB70>

All the information about the position and how to apply is here:

<https://www.calcareers.ca.gov/CalHrPublic/Jobs/JobPosting.aspx?JobControlId=189049>

SnapNHD is looking to hire an experienced geologist to review our natural hazard disclosure report and act as an ongoing advisor to the company. If you are interested in learning more, please contact will@snapnhd.com. A sample report can be found here: [Sample Report](#)



Hargis + Associates, Inc. is an environmental consulting firm specializing in hydrogeology and engineering. We are headquartered in San Diego, California and have offices in Mesa and Tucson, Arizona. Our practice areas include all aspects of hydrogeology and engineering.

As a client service organization, we pride ourselves in being attentive and efficient in meeting our client's needs and solving their problems. In addition to our technical expertise, communication and responsive coordination are hallmarks of our reputation.

We invite you to explore our website to learn more about our firm and the services we provide. We welcome the opportunity to discuss our consulting expertise directly with you.

Contact: Dr. David R. Hargis



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Contact: Louise Adams or Suzie Nawikas

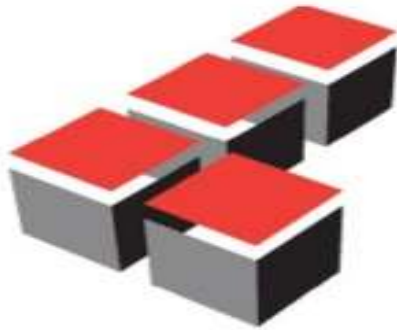


Contact: Rupert Adams, CEG

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For additional information, please contact Bob Stroh (rstroh@leightongroup.com)

Website link: <http://www.leightongroup.com>

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