

AEG Inland Empire Chapter Newsletter

of the Southern California Section

November 2014 Vol.11 No. 2

www.aegsc.org/chapters/inlandempire

November 2014 Meeting Announcement

“Planning & Permitting Process for Mitsubishi Cement Corporation’s South Quarry Expansion”

Austin Marshall

Mine Manager, Mitsubishi Cement Corporation



Thursday, November 13, 2014

5:00 – Social 6:00 – Dinner 7:00 - Program

Location

Lonestar Steakhouse in Lake Elsinore

(Meeting Cost \$30 with RSVP; \$35 without RSVP; Students \$15 with proof of student ID);

See meeting details on pages 3 - 4

RSVP to desmond.chung@geobrugg.com by **5:00pm, Tuesday November 11, 2014**

INSIDE

Pages: 2 Chair Message 3 - 4 Meeting Information 5+ Other Meetings & Announcements

Hello fellow Inland Empire-AEG chapter members. As you all may know, this will be my last message as chapter chair. Our recent elections have created a new board of officers to guide the chapter through the coming year and they are all capable of doing a great job in that regard. I wish to thank this year's officers, Jeff Fitzsimmons (Vice-chair), Shaun Wilkins (Secretary) and Mark Doerschlag (Treasurer) for a great job throughout the past year. In particular I would like to point out the wonderful job that Jeff performed in obtaining diverse and entertaining speakers for our meetings.

We opened the past year in October with a well received presentation from Steve Testa of the State Mining and Geology Board speaking on the history and probable future direction of that body. He emphasized the role of the Board which originally dealt primarily with mining but has evolved over the years into a more regulatory role especially as related to the safety of the public as impacted by geological phenomena. In November, Stan Miller talked about the assessment of rock slopes for various stabilization methods. In December, Tony Morgan discussed the various geophysical methods that the United Water Conservation District utilizes to help manage their groundwater basins. This talk engendered much lively discussion regarding the structure of the lower Santa Clara river valley as revealed from their investigations.

A decision was made to forgo the January meeting in order to allow us to continue our tradition of a joint meeting in February with CSUSB, SME and IGS on the CSUSB campus. The speaker, Dr. Fredrick Chester, presented data and the conclusions reached from their investigations into the source area of the devastating 2011 Japan earthquake and tsunami. This investigation utilized data from deep boreholes advanced into the subduction zone "fault plane" in the area of the hypocenter of the quake. The challenges posed by the deep-sea drilling required and the "uniqueness" of the recovered data allowed new insights into the mechanics of these deep subduction earthquakes which in turn may lead to possible methods of forecasting these events. Later in February, we hosted the AEG Jahn's Lecturer, Dr. Greg Hempen, who presented his appropriately titled talk, "Kaboom" delving into the methods for mitigating the effects of blasting on surrounding structures and terrain.

In March we were treated to a talk and tour of the under-construction wine storage tunnel at the Oak Mountain Winery in the Temecula Wine Country. Our tour was conducted by our own Kerry Cato (engineering geologist for the project) and Ron Skaggs, the foreman for the tunneling operation. We had a fabulous turn-out for this meeting due to the opportunity to tour an interesting project during its construction (and of course, also due to the superb wine tasting opportunity afforded to our members. Many of our members expressed an interest in using this venue in the future! In April, we were treated to an enlightening presentation about the desert tortoise native to our southern California area. All of us who have worked in the desert learned much about the habits and ranges of these creatures which can help us all understand the reasons for their protection and how we, as geologists, need to approach projects in our deserts to avoid destroying tortoise habitat or adversely affecting these interesting creatures.

Our usual May meeting was supplanted by our well attended short course addressing the seismic and faulting issues as contained in the most recent version of the California Building Code. Jennifer Thornburg from the CGS presented an overview of the 2013 CBC and also GS Note 48 as related to the requirements for reports submitted to CGS for their approval. She clearly explained which projects fall under the review capacity of the CGS and exactly what the CGS requires to be addressed within those reports. Our second presenter, Jorge Menzes of GEI Consultants, discussed the changes required by the new code for ground motion analysis and the geotechnical data required for those analyses. In addition he presented information relating to the requirements of ASCE 7-10 as it applies to projects within California. The short course was held at the San Bernardino Elks club which turned out to be a great venue and may be utilized in the future.

In June, Hans Van de Vrugt of Southwest Geophysics talked about the various geophysical methods available to us for investigations. He discussed the limitations of the various methods and the different means of presenting the recovered data depending on the purpose of the investigation. In July we were hoping to have our own Desmond Chung present on the available rock stabilization methods available through his firm, Geobrugg. However, due to a very small RSVP list (probably due to member's summer vacations) this meeting was canceled and Desmond's talk will be presented in the future. As has been our practice in the past we did not hold a meeting in August nor September (national meeting in September).

We recently began our new year with a presentation from Ron Lin of the L. A. Times regarding the debate over a proposed development known as the "Millinium Project". This site is in proximity of the Capitol Records building in Hollywood and has been opposed on various grounds by several concerned citizens groups. Some oppose the project because it would "over-shadow" the Capitol Records building thus shrouding a perceived historical landmark. Now it seems that the soon to be published AlquistPriolo Fault Zone map for the Hollywood Fault would encompass the site. Questions have now arisen regarding the adequacy of the investigations performed for the proposed project. Still much to be debated before this project is either approved or rejected.

We are now headed into our November meeting where we will present and install our new board of officers for this coming year. I am happy to see that Jeff, Shaun and Mark will continue on the board and welcome Greg Johnson as the new chapter chair and Desmond Chung as the vice-chair (south). I am sure that these gentlemen will continue to lead our chapter well into the future. As for myself, I thank you all for the privilege of serving as your chair this past year and for opportunity to have served on the board for many years in the past. I am now looking forward to my "retirement" from the board to enjoy my retirement from employment. I do look forward to seeing you all at the meetings in the future.

Best regards,
David Gaddie, Chair
 AEG Inland Empire Chapter

The VOTES are in for the 2015 officers & will be inducted at the meeting.

Mitsubishi Cement Corporation

“Planning and Permitting Process for Mitsubishi Cement Corporation’s South Quarry Expansion”

INTRODUCTION

Mitsubishi Cement is a leader in the Los Angeles and Las Vegas markets. With reserves nearing an end in the original Cushenbury “East Pit” an expansion was completed in 2004, “West Pit,” to add additional reserves to the East Pit life. Upon further examination of the West Pit the reserves indicated through drill hole analysis to be 97% low grade limestone. Although this was a significant boost for the future of the cement plant an additional source of medium to high grade ore needed to be located and permitted. In 2008 a drilling campaign commenced to look for these sources locally. A large enough area and equal amount of higher grade limestone was determined to be south of the current East Pit which started the next step in the expansion process. The South Quarry is currently being permitted through the United States Forest Service and the County of San Bernardino.

SPEAKER BIOGRAPHY

Austin Marshall

Austin is the Mine Manager for Mitsubishi Cement Corporation in Lucerne Valley, CA. Austin has been with Mitsubishi for 9 years, having hired in as a summer internship while finishing two B.S. degrees in general geology and environmental geology at California State University. He has worked on projects at the Mountain Pass rare earth elements mine for Molycorp near the Nevada-California state line, the pinnacles lead-zinc mine in NSW, Australia and performed assessments on aggregate resources in Jean and Sloan Nevada as well as assessments on gypsum reserves outside Las Vegas and iron reserves near Baker, CA. After hiring on as the mine geologist he worked his way to Mine Superintendent in 2009 and then was later promoted to the current title of Mine Manager in 2012. Austin has been an active member of the Inland Geologic Society, Society of Mining Metallurgy and Exploration, Portland Cement Assoc. and the Big Bear Chamber of Commerce.

Austin is also an active member of the United States Air Force and Air Force Reserve with 19+ consecutive years of service.

Chapter Officers**Chair****Greg Johnson**

LA County DPW

(626) 458-1741

gjohnson@dpw.lacounty.gov**Vice Chair North****Jeff Fitzsimmons**

John R. Byerly, Inc.

(909) 877-1324

geojeff08@att.net**Vice Chair South****Desmond Chung**

Geobruigg North America

(909) 706-8964

desmond.chung@geobruigg.com**Treasurer****Mark Doerschlag**

Peak Group

geofantasy@aol.com**Secretary****Shaun Wilkins**

Petra Geotechnical, Inc.

swilkins@petra-inc.com

(657) 269-4980

Past Chairs:

David Gaddie, 2014;

Douglas Johnston, 2013;

Debbie Kunath, 2012;

Frank Jordan, 2005, 2011;

Douglass Johnston, 2010;

Kerry Cato, 2009;

Newsletter Editor**Desmond Chung**

Geobruigg North America, LLC

(909) 706-8964

desmond.chung@geobruigg.com

The AEG Inland Empire Chapter Newsletter is a monthly publication of the Inland Empire Chapter of the Southern California Section, Association of Environmental and Engineering Geologists. For more information visit the Chapter website:

<http://www.aegsc.org/chapters/inlandempire>

Submittals: Deadline, 25th of the month. Employment notices, job position announcements, and advertisements can be posted for a minimal fee. Newsletter circulation exceeds 300 people in greater inland areas of Southern California, and elsewhere.

E-Mail Address changes:

desmond.chung@geobruigg.com

AEG-IE November Meeting Details

Date & TimeThursday, November 13, 2014.

Social hour 5:00 to 6:00,

Dinner 6:00 to 6:45

Announcements 7:00 to 7:15

Talk and Q&A 7:15 to 8:15

Location

Lonestar Steakhouse

18601 Dexter Avenue

Lake Elsinore, CA 92532

Meal

- 8 oz Center Cut Sirloin

- Grilled Shrimp

- Grilled Chicken Breast

- Chopped Steak

*See menu attached

Cost

\$30 with RSVP

\$35 without RSVP

\$15 per student with proof of valid student ID

RSVP**desmond.chung@geobruigg.com Deadline is Tuesday November 11, 2014.**

Individuals who RSVP but do not attend may be charged if the final attendance does not meet the restaurant guarantee.

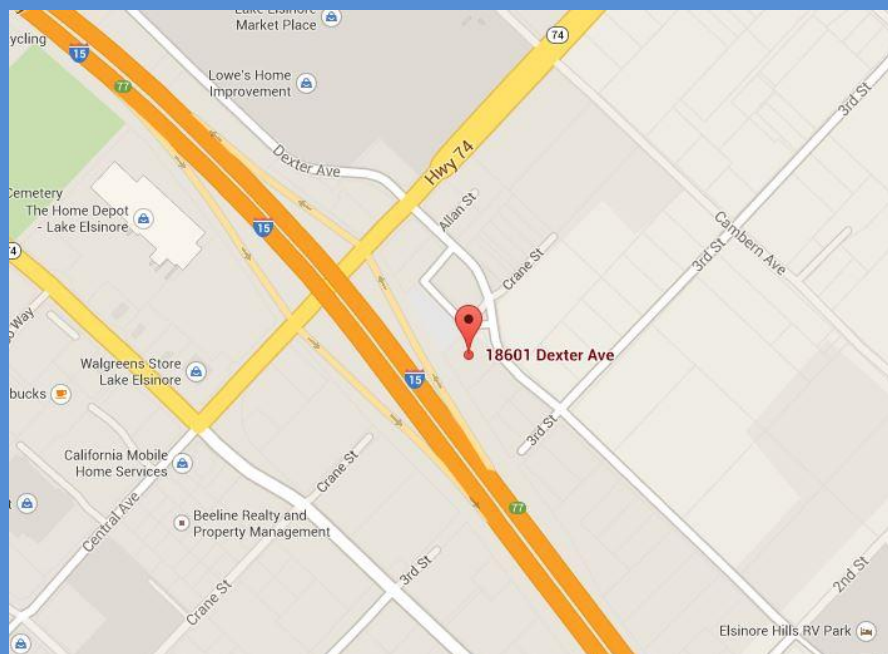
MAP TO THE NOVEMBER MEETING LOCATION

Directions: From I-15 Heading South:

1. Exit CA-74/Central Ave and Turn Left.
2. Turn Right onto Dexter Ave.
3. Destination will be on the Right (18601 Dexter Ave).

Directions: From I-15 Heading North:

1. Exit CA-74/Central Ave and Turn Right.
2. Turn Right onto Dexter Ave.
3. Destination will be on the Right (18601 Dexter Ave).



OTHER MEETINGS

AEG-SF: December 18, 2014 (Thursday). Topic: **“Assessment, Monitoring, and Mitigation of Naturally Occurring Asbestos (NOA) Hazards in the Western US”**. Speaker: **Symposium with multiple speakers**. For more information visit: <http://www.aegsf.org/noa2014> or see attached flyer

AEG-Southern California Section: November 12, 2014 (Wednesday). Topic: **“New Tools and Technologies for Geohazards Mitigation”**. Speaker: **James Chincholo, GeoStabilization International**. For more information visit: <http://www.aegsc.org/>

AEG-Inland Empire: December 10, 2014 (Wednesday). Topic: **“Effects of Debris Flow and Superposition of Seasonal Spring Flow on Multi-Year Variable Spring Base Flow : Conditions at Ruby Springs, OMYA Inc.’s White Knob Mine, Lucerne CA”**. Speaker: **Thomas Dean - CHg, PG, RG, MS, Principal Hydrologist, Dean Consulting, Inc.**

ASCE: (Orange County Branch). November 11, 2014 (Tuesday). Topic: **“Legal Side of Engineering 2: Construction Phase Services”**. Speaker: **Michael Wroniak, Esq,**. For more info visit: <http://www.asceoc.org/index.php/events/events>.

ASCE: (San Bernardino-Riverside County Branch). November 14, 2014. Topic: **“Technical Tour Mill Creek Event”**; November 19, 2014. Topic: **“Design-Build Skanska Civil West Presentation”**. Speaker: **Andrew Holmquist**; For more info visit: <http://www.asce-sbriv.org/Calendar/calendar.html>.

ASCE: (San Diego County Branch). November 6-8, 2014. Topic: **“International Sustainability Conference”**. For more info visit: <http://www.asce-sd.org/>

CGS: November meeting TBD. For more info, visit: <http://www.coastgeologicalsociety.org/meetings.html>.

GRA: November meeting TBD. For more info, visit www.grac.org/

IGS: November 5, 2014 (Wednesday). Topic: **“The Characterization and Analysis of Quaternary Lava Flows from Nye Co, NV”**. Speaker: **Ali Snowden, Cal State San Bernardino**. For more info visit: <http://www.inlandgeo.org/>

LA Basin: No Meeting for November and December. For more info visit: <http://www.labgs.org/>

SCGS: November 10, 2014. Topic: **“Annual Poster Presentation”** For more info visit: <http://www.scgs.org/>.

SME: November Meeting TBD. For more info visit: <http://www.smenet.org/SouthernCalifornia/>

SDAG: November 19, 2014 (Wednesday). Topic: **“Yellowstone Plume Trigger for Basin and Range Extension, and Mid-Miocene Emplacement of the >1000km long Nevada-Columbia Basin Magnetic Belt”**. Speaker: **Dr. Vic Camp, San Diego State University**. For more info visit: <http://www.sandiegogeologists.org/index.html>

ANNOUNCEMENTS

2015 membership dues: If you have not renewed your AEG membership for 2015 please take a moment to do so. Membership can be renewed easily and securely at www.aegweb.org. We thank you if you have already renewed your membership for 2014.

Job: State Water Resources Control Board

Position: Engineering Geologist (See Attached Pages for more Info)

Salary: \$4,608-\$8,675/Month

Due Date: 11/4/2014

Job: Department of Conservation

Position: Engineering Geologist (See Attached Pages for more Info)

Salary: \$4,608-\$8,675/Month

Due Date: 11/6/2014

Job: Department of Toxic Substances Control

Position: Engineering Geologist (See Attached Pages for more Info)

Salary: \$4,608-\$8,675/Month

Due Date: 11/6/2014

LONE STAR

S T E A K H O U S E™

Served with a side salad or cup of soup or chili, and your choice of a baked potato, baked sweet potato, garlic mashed potatoes, green beans, fresh steamed spinach, sautéed mushrooms, Texas seasoned rice or steak fries.

8 OZ. CENTER CUT SIRLOIN*

USDA Choice Sirloin

GRILLED CHICKEN BREAST

Boneless marinated chicken breast served simply grilled, with pico de gallo or BBQ sauce

GRILLED SHRIMP DINNER

Grilled shrimp, garlic butter, skewered with jalapeño

CHOPPED STEAK

10 oz. juicy ground chuck steak topped with rich mushroom gravy

6 OZ. CENTER CUT SIRLOIN* & GRILLED SHRIMP

USDA Choice sirloin with grilled shrimp brushed with garlic butter & skewered with jalapeño

*Consuming raw or undercooked meats, poultry, seafood, shellfish or eggs may increase your risk of foodborne illness, especially if you have certain medical conditions



The Association of Environmental & Engineering Geologists (AEG)

Announce a Special Symposium

***Assessment, Monitoring and Mitigation of Naturally Occurring
Asbestos (NOA) Hazards in the Western U.S. - 2014***

December 18, 2014

8AM-5PM

Oakland Convention Center / Oakland Marriott Hotel

1001 Broadway, Oakland, CA

Presenter Organizations

Aeolus, Inc.
Asbestos TEM Labs
Bay Area AQMD
California Air Resources Board
CalTrans
Cal-OSHA
Dragados-Flatiron-Sukut JV
Entek Consulting Group

Geocon
Kleinfelder
San Francisco PUC
Sacramento AQMD
SLR International
Terracon-IHI
Tetra Tech
UNLV

Who Should Attend

Asbestos Consultants
Certified Industrial Hygienists*
Environmental Consultants
Geologists

Geotechnical Engineers
Government Regulators
Risk Assessors
Testing Laboratories

**Note to CIHs – it is expected that this session will be worth 1 CM credit*

Cost to attend (includes box lunch, snacks, coffee):

If registered by Nov 21: **AEG Member - \$175, Non-Member - \$195**

After Nov 21: **AEG Member - \$225, Non-Member - \$250**

To get the latest meeting information, or to register to attend, visit the event webpage at

<http://www.aegsf.org/noa2014>

Meeting co-chairs:

Mark Bailey, PG – Asbestos TEM Labs e-mail: mark@asbestostemplabs.com

Sarah Kalika, PG, CAC – AEG San Francisco Section e-mail: chair@aegsf.org

Corporate Sponsors:



Asbestos TEM Laboratories, Inc.

**AEG NOA Symposium: "Assessment, Monitoring and Mitigation of
Naturally Occurring Asbestos (NOA) Hazards in the Western U.S. - 2014"**

LIST OF CONFIRMED SPEAKERS AND TOPICS (AS OF OCTOBER 2014)

Kevin Vo, Air Quality Specialist/Bay Area AQMD - BAAQMD Compliance and Enforcement of the Asbestos Airborne Toxic Control Measure for Construction and Grading in the Bay Area

John Angi, Air Quality Program Mgr./Sacramento AQMD - Regulating Natural Occurrences of Asbestos in East Sacramento County

Brent Rudin, Supervising Air Quality Specialist /Bay Area AQMD - Limitations of Asbestos Regulations

Jeff Ferrell, CIH; Chris Kirkham, MPH, CIH/Cal-OSHA - CAL-OSHA Perspective on NOA

Rick Beall, CIH/Entek - NOA Environmental Health & Safety and Air Monitoring Plans

Bradley Erskine, PhD, PG, CEG/Kleinfelder – I. Building a Dam out of Naturally Occurring Asbestos (NOA); Challenges and Solutions at the Calaveras Dam Replacement Project

Wayne Berman, PhD /Aeolus – I. Developing and Implementing an Asbestos Air Monitoring Program with Risk-based Monitoring Criteria for the Calaveras Dam Replacement

Mark Bailey, PG/Asbestos TEM Labs – Geology/Mineralogy of the Calaveras Dam Replacement Project

Bradley Erskine, PhD, PG, CEG/Kleinfelder – II. Fingerprinting Asbestiform Amphiboles at the Calaveras Dam Replacement Project

Dan Hernandez, CIH/Dragodos USA, Flatiron, Sukut Joint Venture - Naturally Occurring Asbestos (NOA) Exposures and Health Risks from Selected Construction Activities at the Calaveras Dam Replacement Project

Wayne Berman, PhD /Aeolus - II. Applying Trend and Amphibole Speciation Analyses to Distinguish CDRP and non-CDRP Emissions Sources at the Calaveras Dam Replacement Project, California

Dan Hernandez, CIH/Dragodos USA, Flatiron, Sukut Joint Venture – Naturally Occurring Asbestos (NOA) Exposures and Health Risks from Selected Construction Activities at the Calaveras Dam Replacement Project

Dr. Rod Metcalf/Brenda Buck/UNLV – Naturally Occurring Asbestos Near Populated Areas of Southern Nevada: Unusual Occurrences of Libby-Type NaFe³⁺-Amphibole and Actinolite

Ann Backstrom, PE/Kleinfelder - Geologic Assessment of Asbestiform Amphole, Phase I Boulder City Bypass Project

Bradley Erskine, PhD, PG, CEG/Kleinfelder III. How to Perform an NOA Geologic Investigation

Rebecca Neumann, PhD, PG; Jeff Wright, Program Mgr./California Air Resources Board - Topics for ARB Test Method 435 Guidance Document

Jason Brodersen/TetraTech – Incremental Soil Sampling – An Introduction

Mark Bailey, PG/Asbestos TEM Labs – III. Considerations When Submitting Rock/Soil Samples for NOA Laboratory Analysis

Dragomir Bogdanic, PE/Cal Trans - Cal-Trans Approach to NOA Investigations and Project Management on Highway Projects

John Pfeiffer, PG, CEG/GeoCon - NOA Investigations on CalTrans Projects

Mike Benefield, PE, CAC/Terracon-IHI - Frequency of Naturally Occurring Asbestos in Non-Ultramafic Rock Formations in the San Francisco Bay Area

Laura O'Heir, MPH, CIH, CSP/San Francisco Public Utilities Commission - Identification of Naturally Occurring Asbestos Work Areas in Coordination with an Exposure Management Program during Vegetation Management Activities

Mark Trevor, PG/SLR International - Case Study of a NOA Remediation Project at a School Site



WATER RESOURCES CONTROL BOARD, STATE

Title: ENGINEERING GEOLOGIST

Salary: \$4,608.00 - \$8,675.00

Posted: 10/24/2014

Job Description:

Under the direction of the Senior Environmental Scientist of the Planning Unit and consistent with good customer service practices and the goals of the State and Regional Board's Strategic Plan, the incumbent is expected to be courteous and provide timely responses to internal/external customers, follow through on commitments, and to solicit and consider internal/external customer input when completing work assignments.

Specific responsibilities include:

Prepare amendments to the Water Quality Control Plan for the North Coast Region (Basin Plan), revising and/or developing water quality objectives, beneficial uses, implementation plans, monitoring plans, and policies for Regional Water Board's consideration and adoption in accordance with the priorities established by the Regional Board as part of the triennial review of the Basin Plan. Work involves preparing basin plan language, scientifically-based staff reports, and California Environmental Quality Act (CEQA) environmental documents, as well as overseeing the peer and economic review processes. In accordance with the skills of an Engineering Geologist, assignments will include projects related to issues of groundwater management and protection, hydrologic function, erosion control, and landscape stability.

Conduct landscape-scale spatial analyses in support of various basin planning projects with the goal of representing past and existing environmental conditions and predicting potential future conditions resulting from various regulatory and non-regulatory actions or programs. Perform advanced computer map design, spatial data management and spatial analysis using a variety of computer programs. Update and manage the Region's Geographic System (GIS) database. Coordinate with State Board GIS staff, GIS consultants, and in-house staff on North Coast GIS projects. Assist with layout and design of maps and graphics necessary for public reports and presentations related to land use, watershed area and condition, including demographic analysis.

Conduct and/or facilitate the public review and Board hearing and adoption processes: including public noticing, response to comments, and public workshops and hearings for basin plan amendments related to erosion control, hydrologic function, groundwater management and protection, and landscape stability. Make formal presentations before the State Board regarding final amendments in collaboration with State Board staff and track approved amendments through Office of Administrative Law (OAL) and U.S. Environmental Protection Agency (EPA)

review and approval.

Assist other planning staff as geology consultant. These duties include: prioritizing water quality issues for the Triennial Review of the Basin Plan, proposing strategies to address new or emerging issues associated with groundwater protection, hydrologic function, erosion control, and landscape stability, consulting on implementation of approved geology/hydrology-related basin plan amendments, and evaluating and presenting written and/or oral assessments of geologic and hydrologic technical reports and water quality data/issues related to water quality control planning in the North Coast Region.

DESIRABLE QUALIFICATIONS:

Organization and decision making skills and the ability to work effectively with stakeholders and members of the public through outreach and public speaking, demonstrated ability to collaborate with others and build partnerships, strong verbal and written communication skills, good customer service, teamwork and organization skills, and the ability to produce work in a timely manner.

Desirable qualifications include proficiency in standard computer applications, strong data management, analysis, and interpretation skills, including spatial analysis using ArcGIS, map design and layout, and analysis of natural resource data.

A successful candidate will be particularly strong in his/her ability to respond accurately and creatively to internal requests for spatial analysis and interpretation and the development of presentation materials, as well as having a familiarity with the Clean Water Act, the Porter Cologne Water Quality Control Act, the Water Quality Control Plan for the North Coast Region, and the California Environmental Quality Act.

WHO MAY APPLY:

Individuals who have list, transfer or reinstatement eligibility for appointment to the Engineering Geologist classification. Individuals that do not possess transfer or reinstatement eligibility **must have list eligibility on the State Water Resources Control Board's Engineering Geologist certification list. A listing of available examinations provided by the State Water Resources Control Board can be found at**

http://www.waterboards.ca.gov/about_us/employment/exam_bulletin.shtml. In order to be considered for this position, please indicate the basis of your eligibility on your completed State application form (STD 678). Appointment is subject to the provisions of the SROA process. SROA/Surplus/Reemployment candidates are encouraged to apply. Surplus employees must attach a copy of their surplus status letter. Applications will be screened and only the most qualified candidates will be considered for an interview.

Please include RPA No. 14-110-021 on your completed State application.

Additional Information:

Working Title	Position Number
None Specified	880 - 110 - 3756 - 036
Location	County
Santa Rosa	SONOMA
Timebase	Tenure
Full Time	Permanent month(s)
Final Filing Date:	Department Link:
11/04/2014	http://waterboards.ca.gov
Contact Unit/Address	Contact Name/Phone
Regional Quality Control Board, North Coast 5550 Skylane Blvd., Suite A Santa Rosa, 95403	Patricia Gorup (707) 576-2664 Patricia.Gorup@waterboards.ca.gov



CONSERVATION, DEPARTMENT OF

Title: ENGINEERING GEOLOGIST

Salary: \$4,608.00 - \$8,675.00

Posted: 10/24/2014

Job Description:

JOB BULLETIN

POSITION: Engineering Geologist, (\$4608.00 - \$8675.00)

WORKING TITLE: Environmental Field Engineer

POSITION NUMBER: 202-3756-002

HR200 NUMBER: 92

LOCATION: Cypress

This position is subject to the Department's Conflict of Interest Code.

Under the direction of the Environmental Unit Senior Oil and Gas Engineer (Supervisor) the incumbent will function as an Environmental Field Engineer in the Division's Cypress District Office. The incumbent will function independently and in a team environment performing engineering work involving regular access to well stimulation searchable indexes and chemical registries and extensive computer use in order to perform calculations and create reports and graphics using modeling software. This position requires a high degree of knowledge and skill in reviewing and analyzing geologic reports as well as excellent data management and communication. The position also may require extensive travel on and off road to work locations. Possession of a valid driver's license is required. In performing field inspections, the incumbent may be exposed to hazardous materials and is required to carry H2S monitors to warn of H2S gas hazards.

The Engineering Geologist will perform duties which include: Conduct field activities on well leases for compliance with Division laws and regulations regarding environmental safety and maintenance. Conduct environmental inspections and document environmental problems such as leaking wells, tanks, pipelines, and other well appurtenances, surface discharge, improperly bermed tank settings, hazardous or unpermitted sumps, unused or hazardous well debris, uncontrolled plant and weed growth and other potential fire hazards. Inspect individual wells in the field for compliance with Division laws and regulations. Document environmental

problems such as leaking wellheads, open cellars containing fluid, safety issues such as lack of proper enclosures or belt guards, removal of production equipment, incorrect or missing well identification, potentially dangerous wellhead pressures, conflicting locations, idle or deserted wells, and other potential environmental issues. Obtain and record GPS locations of wells, tanks, pipelines, and other well related features. Perform inspections of operator's drill site safety testing of facility equipment and create reports of inspection to operator and supervisor. Perform calculations and create engineering reports of recommendations regarding appropriate environmental and/or facility equipment, operation, condition, including well or facility accidents. Review operator's spill contingency plans, pipeline maintenance plans and other related documents to maintain environmental safety. Prepare letters of deficiencies and/or violations to be reviewed by the lead Associate Oil and Gas Engineer and Facilities and Environmental Unit supervisor. Send letters of deficiencies and/or violations to the operators notifying them of regulatory and/or operational issues that need to be corrected. Submit draft orders to the Facilities and Environmental Unit supervisor and district deputy for review and forwards to Division headquarters for approval. Prepare orders of the State Oil and Gas Supervisor as necessary concerning environmental and facility matters. Represent the Division in meetings and hearings and may also provide testimony that may include an engineering analysis regarding orders of the State Oil and Gas Supervisor. Consult with operators, contractors, the public, and other stakeholders regarding environmental inspections for compliance to Division laws and regulations. Participate in agency and/or industry seminars, meetings, conferences, or committees through active panel discussion involvement, giving presentations with an engineering emphasis, or simple attendance. Provide technical support to other Facilities and Environmental Field engineers in the performance of their duties. Update and maintain computer databases regarding pipelines, tanks, sumps, wells, GPS locations, lease transfers, lease designation changes, and other changes related to environmental/facilities inspection. Prepare environmental statistic reports to supervisor for review, approval and incorporation into the Division's Annual Report and other reports of activities. Investigate public and industry complaints and accidents concerning potential violations of environmental laws and regulations. Report observations and/or engineering findings to supervisor for possible generation of out-of-compliance or violation letters, orders, civil penalties, or other enforcement actions. Collect, review, scan and maintain database records for Division management and the District's operators, including the Spill Contingency Control Plan database. Contact operators to resolve regulatory errors or omissions. Periodically issue requests to operators for updates. Obtain data, records, scans, and reviews onshore and offshore spills and incident reports from the public, industry, or other regulatory agencies. Apply Division's spill reporting criteria to establish sensitivity classification for field inspection. Coordinate and oversee any Division-funded emergency environmental remediation. Work with associate engineers and supervisor and Division management to identify and arrange for contracting and funding the repair, abandonment of wells, and/or facility equipment, and/or cleanup work for immediately hazardous or potentially hazardous situations. Perform field inspection of oil spills classified as sensitive, as needed. Report observations and engineering calculations of out-of-compliance or violations to supervisor and/or district deputy for possible further action.

Desirable Qualifications:

- Ability to communicate effectively (verbally/written).

- Excellent computer skills.
- Possess good interpersonal skills
- Ability to work independently as well as in a team environment.
- Ability to organize and prioritize multiple assignments.
- Ability to promote a positive working environment and relationship with others.

Who May Apply: All interested applicants must submit a standard State Application Form STD 678 (with original signature), and must clearly indicate the basis of their eligibility in the “Explanations” box of the STD 678. **For a copy of the application please visit www.jobs.ca.gov.**

Applications will be screened and only the most qualified candidates will be selected for an interview. SROA and Surplus candidates should attach “surplus letters” to their applications. Training and Development Assignment may be considered.

PLEASE NOTE: Possession of minimum qualifications may be verified prior to interview and/or appointment. If it is determined an applicant does not meet the minimum qualifications, the application will be forwarded to the State Personnel Board for review and the applicant’s name may be removed from the eligibility list.

Please submit an application indicating HR200-92 to: Department of Conservation, Human Resources Office, 801 K Street, MS 22-13, Sacramento, CA 95814-3530. Please indicate HR200 and position number on your application.

Additional Information:

Working Title	Position Number
Environmental Field Engineer	538 - 202 - 3756 - 002
Location	County
Cypress	ORANGE
Timebase	Tenure
Full Time	Permanent month(s)
Final Filing Date:	Department Link:
11/06/2014	http://www.consrv.ca.gov
Contact Unit/Address	Contact Name/Phone
Human Resources Office 801 K Street MS 22-13 Sacramento, CA 95814	Kristy Lac 916-322-1575

Special Requirements:
Conflict of Interest Code



TOXIC SUBSTANCES CONTROL, DEPARTMENT OF

Title: ENGINEERING GEOLOGIST

Salary: \$4,608.00 - \$8,675.00

Posted: 10/22/2014

Job Description:

Under the direction of the Supervising Hazardous Substances Engineer I (Unit Chief) in the San Joaquin Branch of the Brownfields and Environmental Restoration Program (Cleanup Program), the Engineering Geologist (EG) serves as a project manager and oversees all aspects of assessment, investigation and/or cleanup of assigned hazardous waste/substance sites, and other administrative duties. Specific duties include, but are not limited to:

Geological Assessment/Evaluation

Reviews or prepares technical geologic reports and other documents including, but not limited to: Phase I, PEA/RFA, site characterization workplan and reports, sampling and analysis plans, human health and ecological risk assessments, pilot and treatability studies, feasibility studies, remedy selection documents, design, implementation, and completion reports, operation and maintenance plans, five-year reviews, and long-term monitoring reports for compliance with approved plans. Applies knowledge of recognized environmental conditions, geology, subsurface investigations, underground transport processes of contaminants, and hydrogeology. Evaluates geologic, hydrologic, and geochemical data of the surface and subsurface to characterize the occurrence and migration of contaminants. Reviews and prepares cross sections, maps, charts and graphs that illustrate the physical and geochemical setting of contaminated sites.

Recommends specific locations of monitoring devices to detect the presence and movement of contaminants in soil, soil gas, groundwater and air. Reviews and assists in the development of sound conceptual site models as framework for effective investigation strategies. Characterizes groundwater occurrence, flow direction, velocity and discharge rate to identify contaminant migration. Evaluates subsurface fate and transport of contaminants, including the use of mathematical modeling tools to determine the extent of contamination in the soil/groundwater. Performs statistical and trend analysis of water quality and other environmental data. Assists in the utilization of GIS mapping technologies for effective integration and presentation of environmental data. Reviews or prepares cost estimates and coordinates with the other DTSC staff to ensure adequate financial assurance mechanisms are in place for the selected remedy and long term operation and maintenance. Ensures that statutes, regulations and internal policies that apply to site cleanups are appropriately addressed.

Project Management

Plans and manages a workload consisting of one or more assignments on projects with

sometimes conflicting deadlines to ensure all assignments are completed on time and within budget. Prepares and maintains accurate project schedules to facilitate allocation of resources. Prepares estimates for oversight costs for each assigned project and follow up with the Responsible Parties to ensure payment of invoices of billed activities. Routinely updates and maintains project information on existing sites in DTSC's EnviroStor database, including uploading major milestone documents to EnviroStor on a timely basis. Maintains site files and data bases for internal and external use. Communicates internally and externally the status of assignments, recommendations, or issues and prepares clear written documents free of errors in grammar or punctuation. Conducts assignments in a team environment by providing information and coordinating project work with other team members. This includes participating in team-based decision making, respectfully resolving disputes and maintaining an environment of trust.

Site Inspections/Oversight

Coordinates and conducts on-site oversight of field activities including the collection of field samples, construction of remedies, and remedial system operation and maintenance to ensure compliance with approved plans and applicable Health and Safety protocols. Oversees drilling, environmental sampling, well construction, and aquifer testing to ensure work is conducted in accordance with approved plans and best practices. Performs site inspections to verify compliance with site order or agreement requirements, including compliance with land use covenants.

Representative

Coordinates with other local, state and federal regulatory agencies to assure compliance with actions being taken on site projects. Interfaces and coordinates with members of the public, legislators, the regulated community, other agencies, and the media, to provide and explain site information. Prepares or reviews public participation plans, work notices, public notices, and/or fact sheets. Participates in community meetings, workshops, and interviews to address community concerns and to promote transparency of DTSC project decisions. Responds to public inquiries or complaints.

Research

Researches internal and external facility and site records, prepares summary reports documenting instances of uncontrolled release of hazardous materials. Identifies responsible parties. Drafts or coordinates preparation of: Corrective Action Order/Agreements, Unilateral Orders, Voluntary Cleanup Agreements, Operation and Maintenance Agreements, Consultative Agreements, and Land Use Covenants. Provides assistance for legal proceedings and participates in negotiations and litigation, as necessary. Prepares CEQA-compliance documents, as needed, for DTSC regulatory decisions. Working in conjunction with the Office of Legal Counsel, identifies, conducts and/or reviews supplemental studies necessary to complete the CEQA-compliance documents.

WHO MAY APPLY:

Eligible candidates who are current State employees with status in the above classification, lateral transfers from an equivalent class, former State employees who can reinstate into this class, or persons who are reachable on a current employment list for this classification.

All interested applicants must submit a standard State Application Form STD. 678 with original signature. Applications mailed through the U.S. Postal Service must be postmarked by the final filing date, the application must be received by CLOSE OF BUSINESS (5:00 p.m.). Do not submit applications electronically. E-mail applications are not accepted. The job title/classification, Engineering Geologist, position number(s) 810-565-3756-XXX ~ RPA#15-2-CUP 124 and basis of your eligibility must be clearly stated in the Examinations or job title(s) section of the state application being submitted.

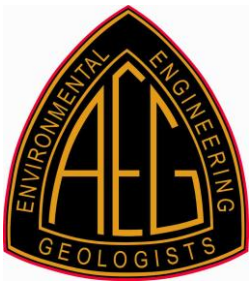
SROA and State Surplus candidates are encouraged to apply. Appointment is subject to SROA and State surplus policies. Surplus candidates must submit a copy of their surplus status letter.

Applications will be screened and only the most qualified candidates will be considered.

A 60 day candidate pool may be established for subsequent vacancies.

Additional Information:

Working Title	Position Number
Project Manager	810 - 565 - 3756 - XXX
Location	County
Clovis	FRESNO
Timebase	Tenure
Full Time	Permanent month(s)
Final Filing Date:	Department Link:
11/06/2014	http://dtsc.ca.gov
Contact Unit/Address	Contact Name/Phone
Cleanup Program/San Joaquin/Clovis 700 Heinz Avenue Berkeley, 94710	Gwen Neal/Kevin Shaddy (510) 540-2607



AEG MEMBER BENEFITS

- You find value in our **conferences** - both [Annual Meetings and Specialty Conferences](#) - and in the **technical knowledge** and **continuing education** you [receive at these meetings](#).
- You appreciate **networking opportunities** in local settings, at [Section meetings](#), and at national conferences. With over **3,000 members**, AEG provides you with access to a wide network of Environmental and Engineering geology professionals.
- You love our **publications** - the [AEG NEWS, the Environmental & Engineering Geoscience Journal, and the AEG Insider](#) - with their relevant geoscience information, updates on AEG activities, and engaging scientific interest stories.

With benefits like these, of course you want to be part of AEG! And we encourage you to spread the word - talk to your co-workers, classmates, and friends about AEG and all it has to offer.

Remember:

- Student Membership is FREE
- Graduating students receive their first year of full membership for FREE as our Graduation Gift to you (Contact aeg@aegweb.org to receive your gift)
- New Membership is just \$95 (First Year of Membership only)

- If you have - thank you! Full members receive discounted registration for [Annual Meetings and Specialty Conferences](#)

If you have any questions regarding your membership status or would like to [Join or Renew today](#), please call AEG Headquarters at 303-757-2926 or email AEG@aegweb.org.