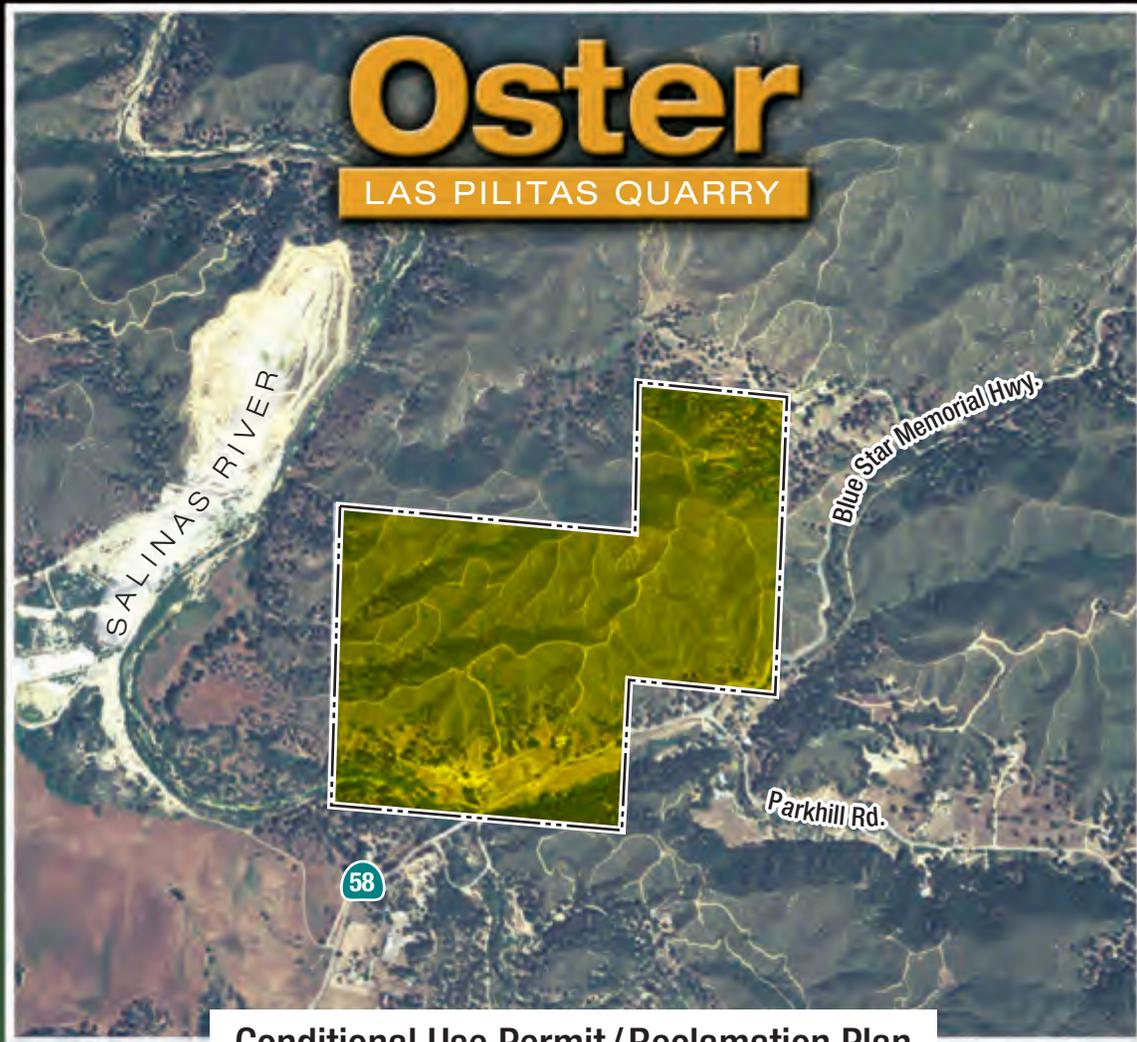


Proposal to Prepare

Environmental Impact Report



Conditional Use Permit/Reclamation Plan

Submitted To:

**County of
San Luis Obispo**
Department of Planning and Building

976 Osos Street, Room 300
San Luis Obispo, California 93408
Attn: Mr. Jeff Oliveira, Project Manager

Submitted By:



Envicom Corporation

28328 Agoura Road
Agoura Hills, California 91301
Mr. Brian McCarthy, Sr. Project Manager
(818) 879-4700

In Association With:

Giroux & Associate | BCR Consulting | Associated Transportation Engineers
Balance Hydrologics, Inc. | Wilson Geosciences

August 26, 2010

Proposal to Prepare an
Environmental Impact Report
for the
OSTER (LAS PILITAS QUARRY)
Conditional Use Permit / Reclamation Plan

Submitted to:

COUNTY OF SAN LUIS OBISPO
Department of Planning and Building
976 Osos Street, Room 300
San Luis Obispo, California 93408
Attn: Mr. Jeff Oliveira, Project Manager

Submitted by:

ENVICOM CORPORATION
28328 Agoura Road
Agoura Hills, California 91301
Contact: Brian McCarthy, Sr. Project Manager

In association with:

ASSOCIATED TRANSPORTATION ENGINEERS
BALANCE HYDROLOGICS
BCR CONSULTING
GIROUX & ASSOCIATES
WILSON GEOSCIENCES

August 26, 2010

<u>SECTION</u>	<u>PAGE</u>
I. INTRODUCTION	1
Project Understanding and Approach	1
Coordination	4
Objectivity	5
II. QUALIFICATIONS	6
Firm Capabilities/History	6
Organizational Structure and Top Management	8
III. REFERENCES	10
IV. PERSONNEL AND EXPERIENCE	11
Personnel	11
Firm Experience	20
V. STUDY METHODOLOGY	32
Methodology for Analysis of Environmental Issues	39
VI. COST ESTIMATE	54
VII. SCHEDULE	57

FIGURES

Figure 1	Previous Oster Property Constraints Analysis	9
Figure 2	Organizational Chart	12
Figure 3	Schedule	56

APPENDICES

Appendix A	Resumes and Subconsultant Qualifications
------------	--

I. INTRODUCTION

Envicom Corporation is pleased to provide this proposal to prepare an Environmental Impact Report (EIR) for the Oster (Las Pilitas Quarry) Conditional Use Permit/Reclamation Plan. This proposal responds to the County of San Luis Obispo's Request for Proposal (RFP).

Envicom Corporation has extensive applicable experience in preparing environmental documents for mining projects within the region, other development projects within San Luis Obispo County, and other projects involving similar issues. Our insight and knowledge of the issues specific to this project are reflected in the discussion of project understanding and approach, below, and throughout the analysis methodology provided in this proposal.

We have dedicated to this project senior project management staff who have an excellent reputation for their commitment to serving our clients and a proven track record of providing high quality documents that meet lead agencies' goals on time and within budget. Envicom Corporation has a strong reputation among lead agencies and other clients for the objectivity, thoroughness, and defensibility of our work products; all of Envicom Corporation's EIRs that have been tested by courts of law have been held as legally sufficient.

Our subconsultant team provides the County with top-notch, well-respected technical experts with relevant experience. Our subconsultants and their respective issue areas are:

- Associated Transportation Engineers (ATE) – Transportation/Circulation
- Balance Hydrologics, Inc. –Hydrology, Water Quality and Supply
- BCR Consulting – Cultural Resources
- Giroux & Associates – Air Quality and Noise
- Wilson Geosciences, Inc. – Geology and Soils

We look forward to assisting the County in preparing an EIR that will provide County staff, decision-makers, and the public with an environmental document that clearly and completely assesses all relevant issues; provides feasible, effective, and enforceable mitigation; and explores a reasonable range of alternatives that would avoid or reduce the project's impacts to the extent feasible.

PROJECT UNDERSTANDING AND APPROACH

Our understanding of the project and our proposed approach are based on information provided in the RFP and its attachments, discussions with County staff regarding the RFP, and our familiarity with CEQA analyses for similar projects. To date, the County has prepared an Initial Study and Notice of Preparation (NOP) that was distributed for agency and public review and comment in July 2010.

Project Description

The proposed project [also referred to herein as the Oster (Las Pilitas Quarry) project] would permit a new aggregate quarry for the mining of decomposed granite and granite rock and would also include asphalt and concrete recycling operations. The project site is located at 6660

Calf Canyon Way (north of Highway 58), east of the Salinas River Bridge, and 0.25 mile west of the Parkhill Road intersection, east of the community of Santa Margarita. The project site is within the La Pilitas Planning area within the Energy Extractive 1 Combining Designation Overlay. The site includes two parcels (APNs 070-141-070 and 071), a 203-acre area in total, within which 60 acres would be disturbed by mining-related activities. The 60 acres occur predominantly in the center and near the northerly boundary of the 203-acre site. The project would be permitted over a 30-year timeframe and extract approximately 13,068,000 tons of aggregate, allowing a maximum annual extraction of 500,000 tons.

Mining would occur in a series of four phases: Phase “1A” and “1B,” “2A” and “2B,” “3A” and “3B,” and the “Final Phase.” Each of these phases would be conducted pursuant to a detailed Phasing Plan and would include access, detention basins, benching of finished mined slopes, and revegetation as part of reclamation. Mining would result in side hill excavations that contour around a centered “floor” area. Finished mined slopes would be cut at 1.5:1 (1.5 feet horizontal to 1 foot vertical) with 25-foot wide benches created every 50 vertical feet. The applicant has provided detailed engineering plans for key aspects of the project, which include the *Entrance Road Plan*, Mining Plans for all four phases, *Miscellaneous Details*, *Water Pollution Control Plan*, *Tree Plan*, and *Detention Basins* plans.

Mining Process and Recycling

The typical mining method would involve the clearing of vegetation and topsoil overburden from an area to be mined. The topsoil overburden would be stockpiled on-site for use in post-mining reclamation. The granite aggregate material would then be excavated with a wheel loader, hydraulic excavator, and/or bulldozer. The mined material would be sorted by size and stockpiled on-site for sale. In some instances, the aggregate may be too consolidated to be excavated through use of heavy equipment and would require blasting to loosen the material. Blasting would include drilling into the aggregate material and placing explosives within the drilled holes before they are detonated. A California Licensed Blaster would conduct the blasting activity. Once the aggregate is sufficiently loosened it would then be excavated, sorted, and stockpiled. From stockpiles, the granite material would be loaded into haul trucks using a front-end loader for smaller material and a hydraulic excavator to load larger rocks. Once loaded, trucks would proceed to the scale for weighing and ticketing before leaving the site. A portion of high quality material would be sold for use in manufacturing of building materials and specialty applications. The remainder of the material would be sold for commercial applications that do not require as high quality specifications, such as road base.

The project would include recycling of concrete and asphalt. The site would accept delivery of rock, concrete, and asphalt from construction/demolition projects. Deliveries would be inspected to ensure they are free of waste, such as oil, plastics, steel pipe, wood or other waste debris. The concrete and asphalt materials would be stockpiled and processed with either a fixed screening/crushing plant or stockpiled until such time as a portable screening and crushing plant would be brought on-site to process the material. Recycled materials would be for commercial sale for lower quality specification uses, such as road base. The recycling operations would be initiated after five years of inaugurating the mining operations.

The project would operate on weekdays between the hours of 6:00 a.m. and 5:00 p.m. No weekend operations or nighttime lighting is proposed at this time.¹

Facilities

The aggregate operations would be supported with ancillary uses, including a truck scale and portable office. The office would be used to perform administrative functions, receiving/processing orders, and for weighing trucks and issuing tickets as they exit the site.

Reclamation

The project includes a Reclamation Plan to allow for an end use of the site of open space, which would involve stabilizing finished slopes and revegetating with native plant species. Slopes would be finished in the upper portions of the mining area first and contoured and benched according to the mining plan. Benches would be sloped toward the hill and ditches would be put in place to control surface runoff and erosion. Stockpiled overburden would be placed as topsoil over the finished slopes prior to revegetation. Reclamation would be on-going during operations to minimize the amount of disturbance at any given time throughout the life of the project, and conducted in sequence with the Phased Mining Plan. The applicant has provided a *Revegetation Plan (Phases 1A, 1B, 2A, 2B, 3A and 3B)* that details the sequence of areas to be revegetated over the life of the project. Also, reclamation success, i.e. establishment of stable slopes and vegetation, would be required to be monitored until the appropriate success criteria, to be outlined in the Reclamation Plan, has been met. The Plan would be approved by the County and prepared in consultation with the California Department of Conservation Office of Mine Reclamation (OMR) and in accordance with the Surface Mining and Reclamation Act.

Key Issues and Approach

Based on our review of available materials, we have obtained an understanding of the key issues associated with the Oster (Las Pilitas Quarry) project and formulated an approach to creating a concise and defensible project EIR. This process included an initial review of the scoping meeting and Notice of Preparation (NOP) letters to ascertain the relevant concerns of the community and trustee agencies. We anticipate that the major issues for this project will center around truck traffic generation on the proposed haul route along Highway 58 through the community of Santa Margarita to Highway 101. In addition to traffic congestion issues, the proposed project's generation of truck trips along this route has raised concerns regarding roadway suitability, safety, noise, and air quality along the proposed haul route. We will ensure that the analysis of each issue area considers potential impacts on the project site and its immediate surroundings, as well as along the proposed truck route, with a focus on impacts to sensitive uses. We understand that the enforcement of mitigation measures associated with trucking is key to the measures' effectiveness and will take this into consideration when developing mitigation measures related to trucking impacts. Finally, we have included an alternative that would explore the range of possible routes, in order to identify whether or not there exists a feasible, practical route that would avoid or minimize the project's impacts. If no such route exists, this will be disclosed in the EIR with support for this conclusion.

¹ Section 8. *Noise* of the Initial Study, provides hours of operations of 7 a.m. to 9 p.m. on weekdays and 7 a.m. to 6 p.m. on weekends with blasting (as needed) between the hours of 7 a.m. and 6 p.m. Hours of operations to be confirmed with the County.

The alternatives analysis will be a critical component of the document as it will explore the potential ways in which the project could be revised to avoid or reduce impacts. It also will assist decision-makers and the public in understanding the tradeoffs inherent in varying certain aspects of the project. The alternatives will be defined once the project's significant impacts are identified, so that they can be tailored to avoid these impacts. Based on our understanding of the project and past experience, we understand the project variables that will come into play and anticipate the types of alternatives that will likely be considered as described in the scope of work below. However, these will be further refined as the impacts are more clearly defined.

Overall, our approach in preparing the EIR is designed to (1) provide a thorough analysis that will withstand the public and agency review process, as well as any potential challenge, (2) present a clear, objective, and user friendly document, (3) assist County decision-makers in understanding the environmental ramifications of the proposed project and a full range of alternatives, (4) ensure an efficient, well-coordinated process, and (5) incorporate and build upon prior studies that have been conducted by the applicant and others.

Key to assuring an efficient, focused process is a clear definition of the proposed project to be analyzed in the body of the EIR. We will review each aspect of the proposed mining project thoroughly, including operational characteristics such as hours of operation (for both mining and trucking activity), anticipated haul routes, and activities to occur in connection with the mining operations. We will also review the project's physical characteristics set forth in the proposed mining plan and confirm the project maps. It will also be important to establish clear reclamation procedures in consultation with the County and Office of Mine Reclamation to minimize environmental impacts through the life of the project, but that are also feasible for the applicant.

Peer review will be an important initial step. To the extent feasible we will make efficient use of prior technical studies prepared for the project on behalf of the applicant, and provide updated and/or supplemental data and analysis as necessary to support an adequate and objective CEQA document. We have conducted a preliminary review of these studies for purposes of this proposal. In our scope of work provided in Section III, we have made recommendations regarding the use of these technical reports and additional work that would be necessary for the EIR.

COORDINATION

Envicom Corporation is accustomed to working as an extension of lead agency staff. As principal contractor, Envicom Corporation will manage the project and serve as the central point of contact for the County. We will be responsible for developing an EIR strategy in concert with the County and assuring that all staff and subconsultants understand and implement this strategy consistently. Envicom Corporation will be responsible for all editing and assembly of deliverables to the County. We will conduct an internal review of work products prior to delivery to the County to assure the preparation of a thorough, accurate, and easily understood document.

Communication

Communication between Envicom Corporation and the County will provide a common understanding of proposed work product expectations before administrative draft documents are submitted for review by the County. Communication will occur on several levels:

- Day-to-day communication

E-mail will be the preferred method for communication between the Project Manager and the County Project Manager on day-to-day matters, although telephone calls will be used to address issues that require greater discussion. All written communications will be maintained as a record of correspondence.

- Project Meetings

Envicom will attend a kick-off meeting to finalize the scope of work and approach and decide upon any options or alternatives to the work scope. Sub-consultants will also be included as necessary to discuss specific work tasks.

Formal progress meetings will be held at critical points in the process to discuss key issues and provide progress reports. Notes of the meetings will be produced within one week, which will summarize and record decisions made and actions required. These notes will be circulated to all relevant consulting team members and County or Agency staff.

Ad-hoc Meetings

Ad-hoc meetings may involve scheduled telephone communications with the County Project Manager and other agency staff as needed. These will be arranged to address specific technical, contractual, or other issues as they arise. Participation at these meetings will be dependent on the issue under discussion. Notes of these will be taken and decisions and actions recorded.

Deliverables

The contract requires the completion of a significant number of deliverables. Coordination will be provided with the County project manager to anticipate deliverables before their due date. The Project Manager will be responsible for ensuring that these deliverables reach the appropriate reviewing authorities.

Progress Statements

All in-house team and sub-consultants will keep accurate accounts of their time and progress on each project task. These accounts will be used to compile monthly statements that will be sent the County Project Manager. The County Project Manager will be kept current on progress made towards milestones with associated costs and work costs remaining.

Quality Assurance

Envicom has an established reputation for providing quality work products. Products are prepared in constant coordination with the Project Manager, and the Director of Environmental Services provides a rigorous overall quality assurance review before clearance is given to deliver it to the County.

OBJECTIVITY

Envicom Corporation certifies that our firm and our subcontractors have the capacity to submit a neutral and unbiased environmental document.

II. QUALIFICATIONS

FIRM CAPABILITIES/HISTORY

Envicom Corporation is an independent consulting firm that has served California with award winning environmental, biological and land planning consultation since 1972. As experts in the implementation of the California Environmental Quality Act (CEQA), National Environmental Policy Act (NEPA), Federal Clean Water Act, and other Federal, State, and local environmental laws, Envicom Corporation has successfully completed thousands of projects.

Among the services Envicom Corporation offers are:

- Environmental Analysis - CEQA/NEPA compliance;
- Biological Studies - Full range of wildlife and vegetation investigations;
- Land Planning - Environmental Constraints/Development Suitability Analysis;
- Permitting & Entitlement - Federal and State wetland, streambed alteration, and endangered species permits;
- Environmental Permit Compliance - Post project approval compliance with permit and CEQA conditions;
- Surface Mining and Reclamation Act (SMARA) compliance;
- Geographic Information Systems - Digital mapping, spatial analysis, terrain modeling and CAD compatibility; and
- Graphic Imaging - Visual impact analysis and full service design and presentation capabilities.

Equipped with a team of in-house and closely affiliated technical experts, Envicom Corporation provides a multitude of environmental analysis and entitlement services, including permitting, mapping, report preparation, biological surveying, and monitoring services. Our expanded team includes highly qualified environmental planners, cartographers, ecologists and biological resources specialists (including arborists, local plant identification specialists, protocol survey personnel, delineation personnel), geologists, cultural resource specialists (qualified to evaluate archaeology, architectural historic resources, and paleontology including Native American consultation), noise and air quality specialists, and traffic engineers. Additionally, we provide expert witness testimony on a number of environmental topics.

Throughout its history, Envicom Corporation has consistently shown superior capability in preparing environmental compliance documents consistent with the standards of the most discriminating clients, including major California cities and counties, large landholders, and the top land use law firms. Summary points of our qualifications are as follows:

- **Expertise and Track Record** - Envicom Corporation has prepared thousands of environmental documents since our founding in 1972, involving a wide range of projects, issues, and jurisdictions. Much of this work has been performed in accordance with the procedural and substantive requirements of CEQA and NEPA. These reports have addressed the environmental consequences of projects in both the private and public sectors. Our list of clients includes public agencies on the Federal, State, and local levels, private industry, regulated utilities, political and public law organizations, special

districts, universities, hospitals, religious institutions and homeowners groups. EIRs prepared by Envicom Corporation have consistently been found to fully satisfy CEQA requirements under court and judicial review. Envicom Corporation believes that its excellent track record is testimony to the skills and experience of its staff.

- **Commitment to Sound Judgment & Plain Language** - Envicom Corporation has consistently produced environmental documents that are technically proficient and are repeatedly recognized for their accessibility to the public-at-large and their usefulness to decision-makers and responsible public agencies. To this end, our documents are written in language and formats that are commonly understood by their intended readers. Graphics and “matrix style” charts are used extensively to illustrate project characteristics and to summarize important analysis conclusions.
- **Interactive Consulting** - The firm has been recognized for advancing the ‘state-of-the-art’ for environmental analysis performed for development projects. Rather than providing ‘after-the-fact’ evaluation of a finalized plan, Envicom provides preliminary environmental advice throughout the work program, allowing valuable input into the project design, as well as identifying project alternatives and mitigation measures. By providing this input during the design phase, concerned planners, developers, and the community clearly understand the options under consideration and potential trade-offs. This facilitates the selection of preferred project components and identification of reasonable and effective mitigation measures.
- **Timely and Cost Effective Delivery of Products** - Envicom Corporation has consistently demonstrated our ability to complete work products in highly constrained time periods. The firm has successfully completed and ensured the certification of a number of environmental assessments that were subject to critical financial or legal deadlines.
- **Reputation Among Approving Agencies** - Over the years, Envicom Corporation has maintained a close working relationship with many local City, County, and Federal and State Agencies, including the Army Corps of Engineers, California Department of Fish & Game, Regional Water Quality Control Board, and most Southern California Counties and constituent cities.

Envicom Corporation has long and varied experience with the preparation of environmental reports for mineral extraction projects that include assessments of environmental constraints of sites proposed for mining and operations impacts and potential future expansions of mineral extraction projects. Projects undertaken have ranged from geographically remote rural locations to major urban land landscapes.

Environmental studies that express the focus and range of the mineral extraction, transportation, and reclamation projects undertaken by Envicom Corporation up to the present include:

- Evaluation of sustainable sand and gravel extraction from the Santa Clara River (Ventura County)
- Grimes Canyon sand and gravel mining expansions to 600 acres (Grimes Rock, Inc., Wayne J. Sand & Gravel, Best Rock Products Corporation) and truck traffic impacts to rural communities
- Sakaida & Sons surface mining project (edge of San Fernando Valley, March 2010)

- Geothermal energy development feasibility (Mono County)
- Enhancement of petroleum recovery from declining fields (Kern, Santa Barbara, San Luis Obispo Counties)
- Petroleum product transportation pipelines (Mariposa, Sisquoc, Celeron, Southern Pacific Pipeline Company)
- Decommissioning and remediation of refinery and tank farm facilities (San Luis Obispo, Santa Clarita, Baldwin Hills, Torrance)
- Development of energy facilities siting and management planning for the Nipomo and Guadalupe Dunes (San Luis Obispo and Santa Barbara Counties)

In particular, our recent work on the Grimes Canyon Mining EIRs is particularly relevant to the Oster project because they involved the addition of truck traffic through two small towns along the haul routes. The community had similar concerns to those expressed by the local community in response to the Oster NOP.

Envicom Corporation has a long and valued history in environmental assessment in San Luis Obispo County, including prior evaluations of the Oster (Las Pilitas Quarry) site. Envicom Corporation studied impacts to resources located on the Oster property and several other properties located along Highway 58 caused by installation of a 54-inch Coastal Branch water pipeline. Maps illustrating slope constraint conditions, biological conditions, and site visibility of the Oster property as seen from Highway 58, previously prepared by Envicom Corporation are shown in **Figure 1**.

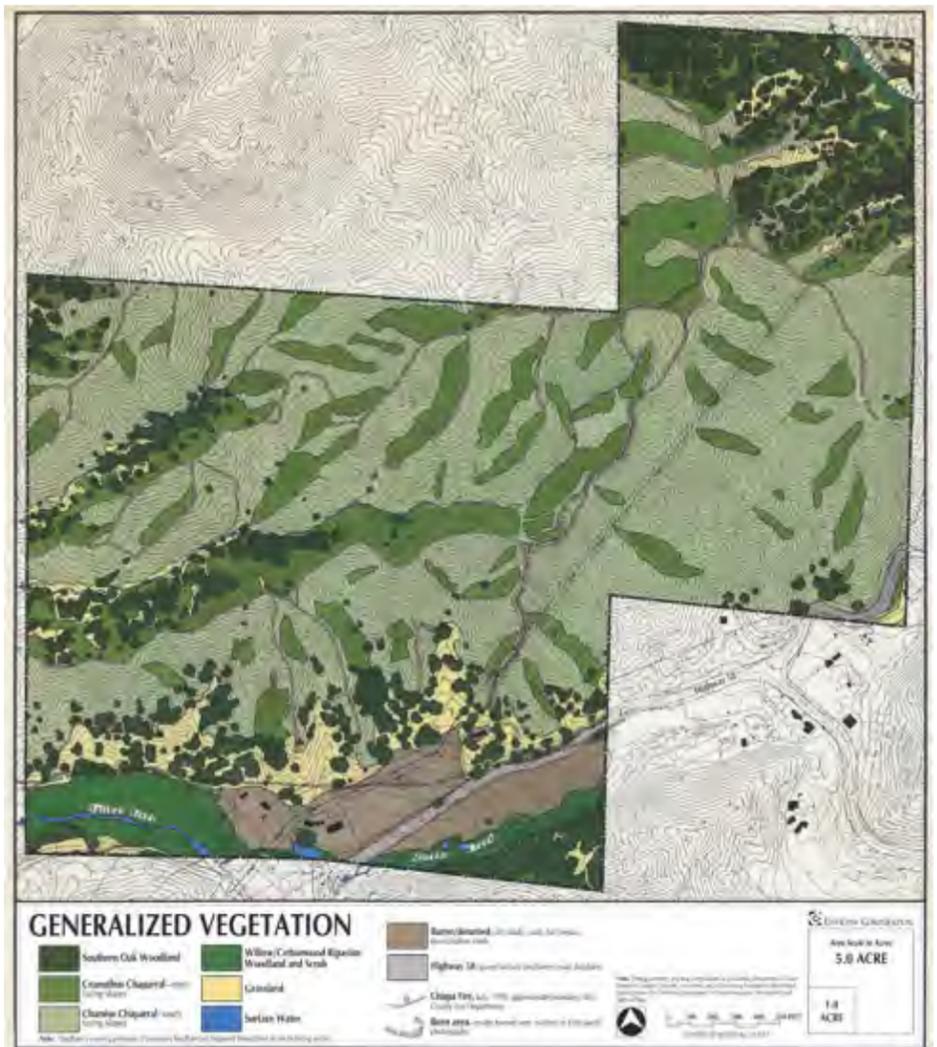
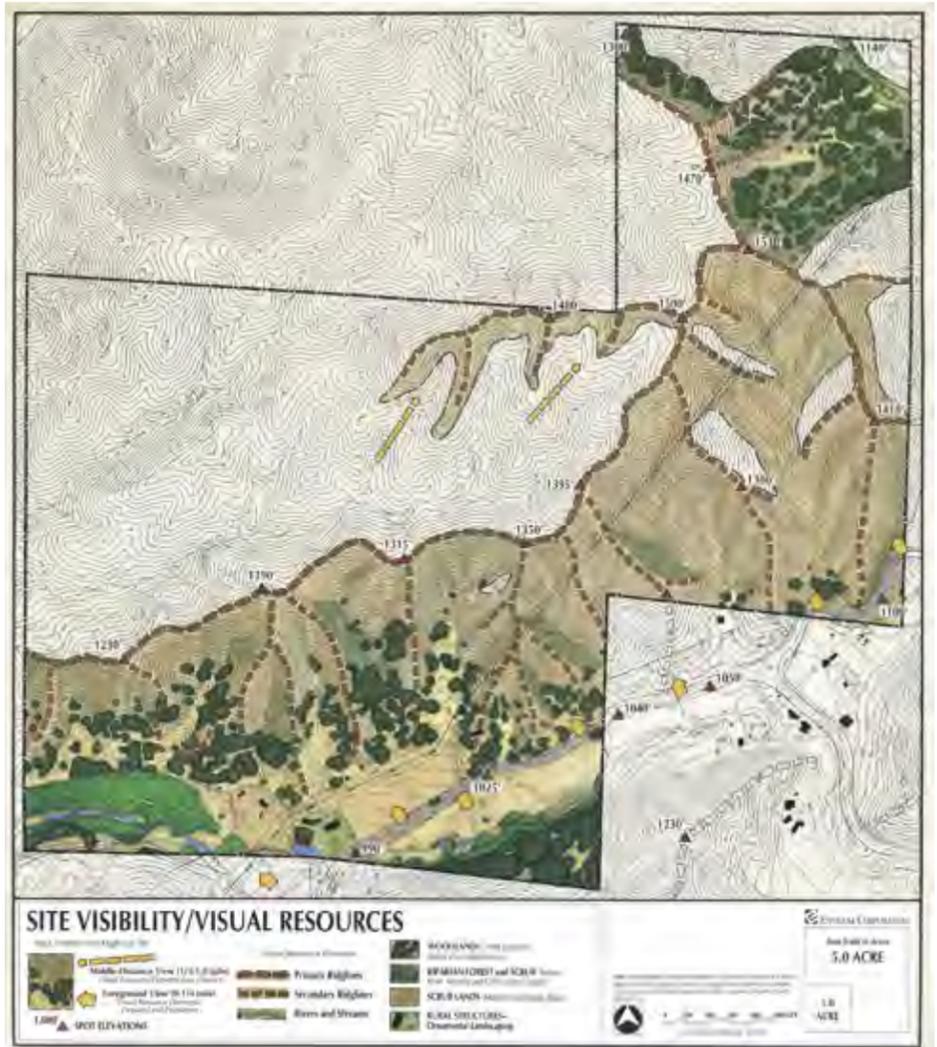
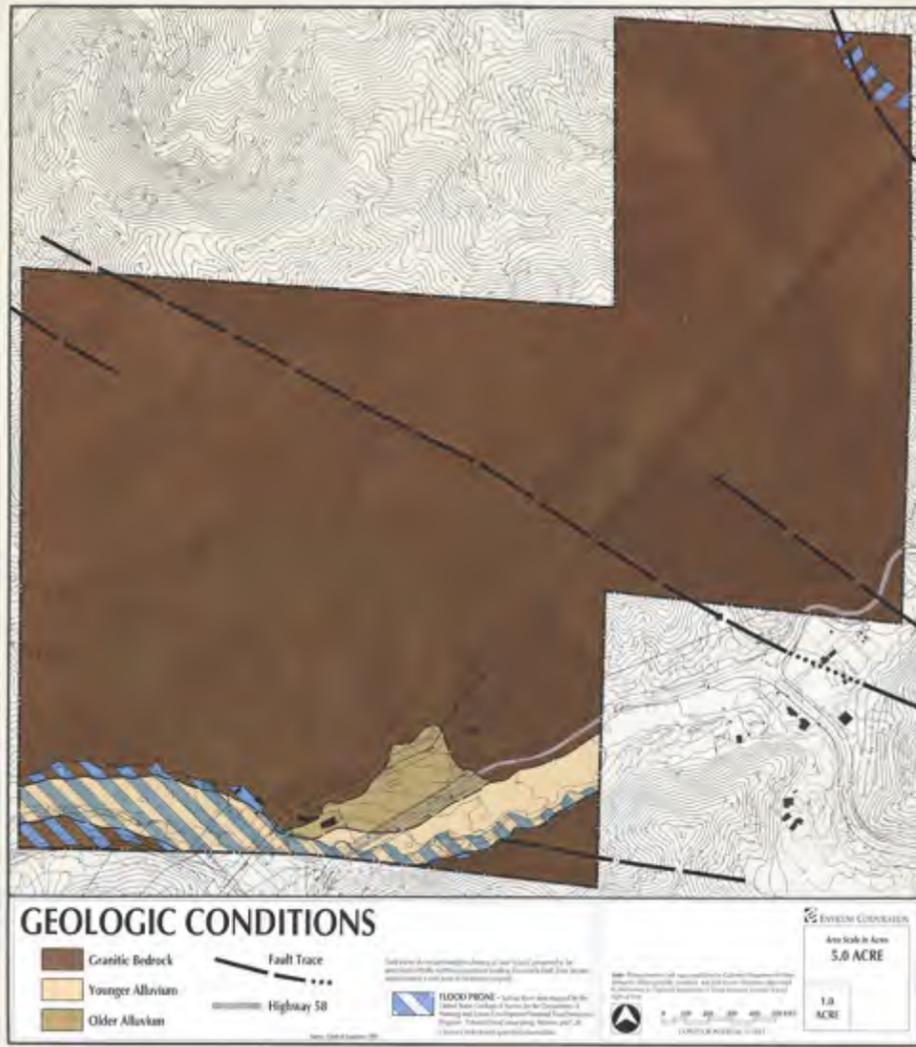
Our other work in the project area includes the preparation of an Environmental Constraints Analysis of the Santa Margarita Ranch (March 1994) for the County of San Luis Obispo (Division of Environmental Review, Department of Planning and Building). The analysis of environmental constraints on the ranch included evaluations of constraints to the potential development related to the generation of fugitive dust, noise and truck traffic associated with surface mining activities and an associated asphalt batch plant located adjacent to the northeast boundary of the ranch near the west bank of the Salinas River.

In addition to our thorough understanding of the environmental constraints in the area, Envicom understands the importance of maintaining a local source of mineral resources, such as granite, to serve the market and the intent of the County's General Plan to preserve access to these resources through the Energy Extractive 1 Overlay land designations.

A summary of the qualifications of the key personnel on our subconsultant team are provided in Section IV below, with more detailed qualifications for the subconsultant firms provided in **Appendix A**.

ORGANIZATIONAL STRUCTURE AND TOP MANAGEMENT

Incorporated in California, Envicom Corporation is a privately held business founded by Mr. Joseph G. Johns, President. Senior management includes: Mr. Primo Tapia, Vice President; Mr. Travis Cullen, Chief Operating Officer; and Ms. Lisa Ballin, Director of Environmental Services. The company's tax identification number is 95-2802086.



III. REFERENCES

Listed below are several clients, public agency reviewers, and professional colleagues with whom Envicom Corporation has established a strong working relationship. We urge you to call any of the persons listed below for details regarding Envicom Corporation's professional abilities and integrity.

Mr. Scott Ellison

County of Ventura
Planning Division
800 South Victoria Street, L#1740
Ventura, California 93009
805/654-2495

Mary Meyer, Plant Ecologist-Region 5

California Department of Fish and Game
1429 Foothill Road
Ojai, California 93003
805/640-8019

Mr. William Charles Brooks

Tapo Rock & Sand Products, Inc.
5141 Tapo Canyon Road
Simi Valley, California 93063
805/526-2899
805/527-2584

Dan Preece, Executive Officer

Resource Conservation District of the Santa
Monica Mountains
122 N. Topanga Canyon Boulevard
Topanga, CA 90290
818/582-2373

Mr. Don Sakaida

Sakaida & Sons
6938 Amigo Avenue
Reseda, California 91335
818/881-5257

Jamie Jackson, Environmental Scientist-Region 5

California Department of Fish and Game
PO Box 92890
Pasadena, California 91109
626/296-3430

**Mr. Rob Duboux, Senior Civil Engineer
City of Malibu**

23815 Stuart Ranch Road
Malibu, California 90265
310/456-2489

Mr. Phil Phillips, Esq., CAO

Pepperdine University
24255 Pacific Coast Highway
Malibu, California 92063
310/456-4551

Ms. Pauline Lewicki

Dr. Robert Manford
City of Los Angeles
Community Redevelopment Agency
354 South Spring Street, Suite 700
Los Angeles, CA 90013
213/977-1912

Loren Montgomery, Esq.

Latham and Watkins
633 West Fifth Street
Los Angeles, CA 90071-2007
213/485-1234

IV. PERSONNEL AND EXPERIENCE

PERSONNEL

As shown in **Figure 2, Organizational Chart**, Mr. Brian McCarthy will serve as Project Manager. Other key staffing assignments are also shown.

The Project Manager will be responsible for:

- Day-to-day contact and coordination with the County
- Development of a complete and accurate project description
- Overall planning of the project and organization of the work required
- Assure that all staff and subconsultants understand the project and analysis approach and that this approach is implemented consistently
- Disseminate project information and existing studies
- Ensure high quality of written output
- Monitor progress in meeting scheduled milestone and deliverable dates
- Meeting the contractual obligations of the project in relation to reporting and financial matters, monitor budget

The following provides brief summaries of key team members' expertise and relevant experience; full resumes for the project team staff are attached in **Appendix A**.

Joseph Johns

President

Mr. Johns brings over 37 years of corporate leadership to our clients. Mr. Johns has overseen the preparation of thousands of environmental studies and compliance reports, none of which has ever been overturned by a court of law. As the President of Envicom Corporation, Mr. Johns has carefully guided company staff and work products over the years, building a reputation for objective analysis and reporting and responsiveness to clients that have earned repeat business. Mr. Johns has served as an expert witness on environmental compliance, development entitlements and land valuation in approximately 30 trials. He is an adjunct professor at the Pepperdine University School of Public Policy and formerly was a co-chairman for UCLA's extension programs in landscape architecture.

County of San Luis Obispo

Jeff Oliveira
Project Manager, Department of Planning and Building

Envicom Corporation

Lisa Ballin
Director of Environmental Services
Brian McCarthy
Senior Project Manager

Environmental Impact Report Analyses

Aesthetics

Jack Blok, PhD

Agricultural Resources

Jack Blok, PhD

Air Quality/ Global Climate Change

Brian McCarthy

Biological Resources

Carl Wishner
Jim Anderson

Cultural Resources

Erin Evarts

Geology and Soils

Brian McCarthy

Hydrology, Water Quality & Supply

Jim Anderson

Hazards

Jack Blok, PhD

Noise

Brian McCarthy

Energy

Charles Cohn

Recreation

Charles Cohn

Transportation and Circulation

Lisa Ballin
Brian McCarthy

Technical Studies

- **Air Quality and Noise** – Giroux & Associates
- **Cultural Resources** – BCR Consulting
- **Transportation and Circulation** – Associated Transportation Engineers
- **Hydrology, Water Quality & Supply** – Balance Hydrologics, Inc.
- **Geology and Soils** – Wilson Geosciences

Lisa Ballin

Director of Environmental Services

With over 20 years of experience in managing the preparation of environmental documents, Ms. Ballin serves as Director of Environmental Services. She brings a strong foundation in logic and analytical thought, along with an ability to grasp complex technical issues and environmental sensitivities typical of larger-scale projects. She has been able to consistently convey these issues in a written format that is comprehensible to the general public, relevant to agency decision-makers, internally consistent, and legally sufficient. This ability, along with her managerial and problem solving skills, has earned her a strong reputation with both public and private sector clients.

Ms. Ballin has overseen the preparation of numerous environmental documents for projects in urban, suburban, and undeveloped locations in Central California and the Los Angeles area. Her recent/current mining experience includes overseeing the management and preparation of the Grimes Canyon Mining EIRs (three EIRs for three requested mining permit modifications in Ventura County) and management of the Sakaida & Sons Surface Mine Project EIR in Los Angeles County. Her other industrial experience includes managing the environmental documentation for New York City's Sludge Management Program, a complex system of sludge transportation and processing/disposal, employing a range of technologies at numerous sites throughout the City. She has also contributed to the impact analyses for the Chevron Tank Farm Project EIR in the County of San Luis Obispo. Ms. Ballin is currently overseeing the preparation of an EIR for the Pacoima/Panorama City Redevelopment Plan EIR, which covers an area of over 7,000 acres in the City of Los Angeles, and the preparation of an EIR for the Orcutt Union School District in northern Santa Barbara County.

Brian McCarthy

Senior Project Manager

Mr. McCarthy's experience in managing and preparing CEQA documents along with his prior role as the Surface Mining and Reclamation Act (SMARA) Coordinator for the County of Ventura make him particularly suited to manage the preparation of the Oster (Las Pilitas) Mining Project EIR. He has an in-depth understanding of mining projects, CEQA analysis of these projects, and implementation of SMARA requirements and mitigation measures applied to these projects. This background and experience enables him to prepare environmental documents that meet lead agencies' objectives while understanding the feasibility of mitigation measures and alternatives for mining operations. He currently serves as project manager for Tapo Rock and Sand environmental permitting and entitlement services. He previously served as associate project manager in preparing three concurrent EIRs for three Grimes Canyon sand and gravel mining operations in Ventura County. As a former planner for the County of Ventura, Mr. McCarthy was the SMARA Coordinator overseeing County-wide compliance with local and State requirements for sand and gravel and hard rock quarries, including in-river and hillside excavations within agricultural zones, as well as monitoring ongoing final reclamation. Mr. McCarthy's other previous CEQA experience includes preparation of the Village at Los Carneros EIR and Citrus Village MND in City of Goleta, assisting with the management and preparation of the Preserve at San Marcos EIR in the County of Santa Barbara, and contributing to the Santa Barbara Botanic Garden EIR. Mr. McCarthy provided environmental planning consultation for the Heritage Valley Parks Specific Plan (a 750 home, 300-acre development in the Santa Clara River floodplain) in the City of Fillmore, including amendments to the Specific Plan EIR. His past experience also includes preparing applications for permits from resource

agencies including the California Department of Fish and Game, the U.S. Army Corps of Engineers, and the Regional Water Quality Control Board.

Travis Cullen, LEED AP

Chief Operating Officer

Mr. Cullen is responsible for day-to-day oversight of projects, staffing, and client relations. During his tenure with Envicom Corporation, he has utilized his leadership skills to manage CEQA projects as well as shape and refine the firm's biological and permit acquisition services. Since 1998, Mr. Cullen has provided a variety of environmental consulting services to both public and private clients that have ranged from due diligence, technical studies and constraints analyses associated with site planning and entitlement strategy to EIRs, MNDs and Mitigation Plans. He is also responsible for the processing of Trustee Agency Permits including CDFG Streambed Alteration Agreements, 2081 Take Permits, ACOE 404 permits, RWQCB 401 Water Quality Certifications and Water Discharge Requirement Permits. As the primary point of contact between Envicom Corporation and the County of Ventura Biologist, he has overseen preparation of Initial Study Biological Assessments (ISBA) and worked with County staff to refine the ISBA guidelines. Recently, Mr. Cullen has been working with Ventura County Resource Management Agency staff to identify the scope of the Biological Resources section to be addressed in the Ozena Valley Ranch Mining and Aquaculture Project EIR. Additionally he is managing CEQA and permitting services for the Conrad N. Hilton Foundations Headquarters Campus (seeking LEED Platinum), provides oversight for the Wildwood Estates Residential Development EIR (Ventura County), and just completed processing of Trustee Agency Permits to allow the City of Ventura to perform long-term maintenance of the Moreland Ditch drainage facility. Mr. Cullen's experience with a variety of project types at various stages of the planning, entitlement, and construction process provides a thorough understanding of the individual environmental issues, direct and indirect impacts, and feasibility/effectiveness of mitigation measures. Mr. Cullen is a LEED Accredited Professional and is currently serving as the Ventura County Representative for the Channel Counties Chapter of the California Association of Environmental Professionals.

Primo Tapia

Vice President

Mr. Tapia has 20 years of experience in the analysis of environmental constraints, CEQA compliance, development impact assessment, resource entitlement and permitting and construction monitoring. He has recent first-hand experience with complex institutional and industrial projects and the issues that are common to them. His project experience includes key roles in the preparation of CEQA compliance documents including the Baldwin Hills Oil Field Community Standards District EIR, for Los Angeles County; Chevron Tank Farm Redevelopment EIR, for the City and County of San Luis Obispo, Southern California Edison's Fogarty Substation Proponent's Environmental Assessment, for the California Public Utilities Commission; and Pepperdine University's Campus Life Project EIR, for Los Angeles County. Mr. Tapia is also experienced coordinating and managing large-scale permit compliance projects such as that undertaken for the Qwest Communications Fiber Optic Cable Installation Project. Mr. Tapia managed the preparation of Operation, Emergency, and Fire Prevention Plans as well as Environmental Assessment documents for the installation of fiber optic cables and pull boxes within 19 miles of federally held land. Mr. Tapia supervised all environmental and archaeological monitoring activities during construction and directed a team whose primary

responsibility was to ensure contractor compliance with numerous Angeles National Forest Special Use Permit conditions intended to minimize potential impacts to forest resources.

Jack Blok, Ph.D., MBA

Director of Cartographic Services

Dr. Blok has provided cartographic services for Envicom Corporation for over twenty years and has over thirty years of experience in the fields of geography, cartography, and environmental impact analysis for issues including aesthetics/visual resources, agriculture, and land use. In addition to his professional experience in inventorying environmental resources, field mapping, and interpretation of aerial photography, Dr. Blok has expertise in the evaluation and modeling of visual resources and assessing the aesthetic impacts of proposed projects in both natural and developed environments. Dr. Blok was a key contributor to mapping and environmental assessment for past Envicom work on the project site and the Santa Margarita Ranch. His recent project experience includes the EIR aesthetics/visual impact analyses for the Grimes Canyon Mining Projects, the Sakaida & Sons Surface Mine Project, the Hilton Foundation Headquarters, the Santa Barbara Botanic Garden Vital Mission Plan, the Village at Los Carneros, and the Pepperdine University Campus Life Project. Dr. Blok has also applied his academic background in agricultural economics to agricultural resource assessments for the analysis of Santa Barbara County's Agricultural Planned Development (APD) zones; impacts to agricultural resources and cattle operations posed by large lot residential subdivisions of the Hollister Ranch and Mission Oaks Ranch; ranch well development and grazing on the Hearst Ranch; and impacts to agricultural resources and cattle operations stemming from a proposed subdivision of the Santa Margarita Ranch.

Carl Wishner

Principal Biologist

As Envicom Corporation's principal biologist, Mr. Wishner has over 25 years experience in biological consulting. He has been the lead investigator and primary author of numerous IS, EIR, EA, and General Specific Plan documents related to biological and wetland resources, focusing primarily on coastal southern California ecosystems. Mr. Wishner is an approved consulting biologist for San Luis Obispo County and Ventura County. He has managed numerous biological projects, including several focusing on large land areas, including (former) Ahmanson and Jordan Ranches, and Adams Canyon in Ventura County, and Santa Margarita and Hearst Ranches in San Luis Obispo County, as well as several mining projects, including the Grimes Canyon Mining Projects in Ventura County, the Sakaida and Sons Surface Mine Project in Sylmar, Los Angeles County, and the Ozena Valley Ranch Mining and Aquaculture Project Project in the Cuyama Valley, Ventura County. He has also prepared biological analyses that have served as the basis for restoration/mitigation plans for mine project impacts, including for the Cuyama River at Ozena Valley Ranch and the Santa Paula River for Fresno County Rock.

Mr. Wishner has expertise in biological field surveying, habitat classification and mapping, wetland delineation, restoration planning and impact analysis. He has performed numerous surveys for endangered, threatened and rare wildlife and plant species, and has conducted biological investigations for projects potentially impacting wetland habitats containing sensitive species such as the California red-legged frog, foothill yellow-legged frog, southwestern pond turtle, southern steelhead, tidewater goby, arroyo chub, and many others.

Mr. Wishner is qualified to conduct surveys for the California red-legged frog, based on the qualification requirements of the U.S. Fish and Wildlife Service. For the Dairy Creek Golf Course project in San Luis Obispo County, he surveyed and located the California red-legged frog. For this project, he also evaluated potential construction impacts to the red-legged frog, delineated sensitive red-legged frog habitat, and was involved with the development of a mitigation plan and monitoring of the red-legged frog population in Dairy Creek. He also conducted focused surveys that included positive identification of the red-legged frog for the Jackson Ranch EIR over a two-month period and a two-mile stretch of stream, also in San Luis Obispo County.

Additional recent projects for which he has conducted biological studies and impact analyses include the Wildwood Stable Estates Project, Preserve at San Marcos, the Village at Los Carneros, the Santa Barbara Botanic Garden Vital Mission Plan, the Upper Las Virgenes Resource Management Plan (Ahmanson Ranch), and the Pepperdine University Campus Life Project.

James Anderson

Staff Biologist/Environmental Analyst

Mr. Anderson conducts biological surveys/studies in support of permitting and entitlement review processes and CEQA analyses addressing various issues including biology and hydrology/water quality. Mr. Anderson is an approved consulting biologist for San Luis Obispo County. His recent project experience includes preparation of biological resource impact analyses for the Pepperdine University Campus Life Project in Malibu, and biological resources and hydrology/water quality analyses for the Hilton Foundation's proposed headquarters in Agoura Hills. He has also recently prepared a Los Angeles County Biological Constraints Analysis, and assisted with a hydrology/water quality section of the EIR for the Sakaida & Sons Surface Mine Project in the Sylmar area of Los Angeles County. In the past year, Mr. Anderson has assisted with spring biological surveys and vegetation mapping for the Ozena Valley Ranch Mining and Aquaculture Project in Lockwood Valley, Ventura County, and for the Malibu Country Club in the Santa Monica Mountains. His experience also includes assistance with biological surveys and impact analysis for Ventura County Initial Study Assessments. He has performed Army Corps of Engineers and California Department of Fish and Game jurisdictional delineations for the City of Agoura and for Sinaloa Park, a component of the Rancho Simi Recreation and Park District within the City of Simi Valley. Mr. Anderson has a Master of Environmental Science and Management focusing on ecology and conservation planning from the University of California, Santa Barbara.

Scott Werner

Staff Biologist/Environmental Analyst

Mr. Werner has over 14 years of ecological research and consulting experience in California and the Southwest, and 5 years of biological consulting management experience in southern California. He has worked for universities, federal, county, and state agencies, and in the private consulting sector on biological resource studies. He has managed data-intensive research studies, written biological assessments, managed large construction monitoring projects, and consulted extensively on southern California electrical utility projects. Mr. Werner has worked closely with planners, construction crews, natural resource agency personnel, law enforcement, and private landowners. He has successfully applied for research grants, presented his research at national scientific symposia, and written scientific papers published in respected

journals. His surveying and monitoring experience includes extensive work with special-status wildlife species such as southwestern willow flycatcher, least Bell's vireo, California spotted owl, desert tortoise, southwestern pond turtle, California clapper rail, California gnatcatcher, California red-legged frog, and burrowing owl. He holds a U.S. Fish and Wildlife 10(a)(1)(A) Recovery Permit for least Bell's vireo and southwestern willow flycatcher. Mr. Werner is also experienced with rare plants of southern California and with conducting vegetation studies. Mr. Werner has a Master of Science degree in Wildlife and Fisheries Sciences from Texas A&M University and earned his Bachelor of Science degree in Ecology and Evolution from the University of California, Santa Barbara.

Charles Cohn

Environmental Analyst

Mr. Charles Cohn assists in the preparation of CEQA documentation. His responsibilities include: CEQA analysis, research, and technical reporting on and associated public policy. His experience also includes water quality monitoring of streams and shorelines by sampling surface waters in the Calleguas Creek and Santa Clara River watersheds. This sampling includes on-site testing of water quality, samples for lab analysis, and documentation. He is currently assisting in the preparation of public services and infrastructure impact analyses for the Orcutt Union School District Key Site 17 EIR, as well as the City of Los Angeles Community Redevelopment Agency's Pacoima-Panorama City Redevelopment Plan Amendment/Expansion Project EIR. Mr. Cohn received a Bachelor of Science degree in Environmental Science from California State University Channel Islands with an emphasis in natural resource management. A major area of his studies focused on riparian habitat restoration, baseline data gathering and documentation, and water quality issues. He currently volunteers his time as a water quality monitor for the Ventura Coast keeper (VCK) organization, and is also a habitat restoration volunteer with the Ojai Valley Land Conservancy and the Ojai Valley Green Coalition.

Erin Evarts

GIS Specialist/Cultural Resources

Ms. Evarts is responsible for the development of Envicom Corporation's GIS department, introducing ESRI ArcGIS 9.2 software as a means of accessing, analyzing and displaying spatial information in an accurate and efficient manner to support the resource management and planning process. She has performed GIS analyses and created graphics for numerous CEQA documents, oak tree surveys, biological assessments, and fuel modification plans. Additionally, she has worked on various sections of CEQA documents including cultural resources, aesthetics, and alternatives, as well as environmental constraints analyses. Prior to working at Envicom, she worked as a cultural resource and GIS consultant for private, State and Federal agencies throughout Santa Barbara, Ventura and Los Angeles Counties, including the National Park Service, Santa Monica Mountains Conservancy, Mountains Recreation and Conservation Authority and Mountains Restoration Trust. Ms. Evarts holds a Master of Arts degree in Geography at California State University, Northridge.

Chris Boyte

Graphics Manager

Mr. Boyte is Envicom's principal computer graphics designer, responsible for the creation of the exhibits, computer graphics and animation, maps, scale models, and visual simulations, as well

as multimedia presentations. The graphics that are included in our environmental documents greatly provide clear visual depictions of often complex content. He is also charged with maintaining the company website, posting projects being publicly reviewed to this website where applicable, and archiving electronic files for completed projects. He also contributes to the development of GIS-based graphics, most recently for the Wildwood Stable Estates EIR and Sakaida & Sons Surface Mine Project EIR. Mr. Boyte created graphic products for the Village at Los Carneros EIR, Santa Barbara Botanic Garden Vital Mission Plan EIR, Upper Las Virgenes Resource Management Plan (Ahmanson Ranch), Marina del Rey Oceana Retirement Facility and Holiday Harbor Courts Project EIR, Grimes Canyon Mining EIRs, and for our environmental consulting work with Pepperdine University. Mr. Boyte received a Bachelor of Science Degree in Applied Art and Design with a concentration in graphic design from California Polytechnic State University, San Luis Obispo.

Richard L. Poole and Scott A. Schell, AICP, PTP

Associated Transportation Engineers - Transportation/Circulation

Associated Transportation Engineers (ATE) is an association of a registered professional engineer, Richard L. Pool, and Scott A. Schell, a nationally certified planner (AICP). The two principals of the firm have more than ninety years of combined experience in the fields of traffic engineering, transportation planning, and municipal civil engineering. Mr. Pool has served as transportation and/or civil engineer in a variety of public and private capacities and is capable of working on a diverse range of projects with specializations in transportation planning and modeling, traffic impact analysis, environmental and planning regulations, and traffic signal timing and optimization. ATE has earned a reputation for creative problem solving through a team-oriented, consensus building approach. Its staff has developed solid working relationships with city, county, and agency staff throughout the State, and has worked extensively with personnel in nine of the 12 Caltrans districts Statewide. ATE has demonstrated the capability of developing innovative solutions and providing quality services at competitive costs. ATE's mining experience is extensive. Most recent mining-related experience includes Soledad Canyon Quarry (Cemex) in Santa Clarita area of Los Angeles County; Grimes Rock, Best Rock and Wayne J. Sand and Gravel in Grimes Canyon in Ventura County; Diamond Rock Quarry along Route 33 in Santa Barbara County; and Granite Quarry in the Buellton area of Santa Barbara County.

Chris White, REA

Principal Water Quality Specialist, Balance Hydrologics

Mr. White will serve as the principal-in-charge, project manager and senior reviewer for the EIR hydrology and water quality chapter. With Balance since 1991, Mr. White leads the firm's CEQA practice is experienced in preparation of technical documents for CEQA compliance, having contributed to or managed assessments at more than 40 sites in northern California where stream channels, ponds and/or wetlands abut areas proposed for development. He is a broadly-trained hydrologist with specialized expertise in the planning and design of best management practices for stormwater quality control. He has prepared CEQA evaluations of reclamation plans for aggregate mining operations on Cache Creek (Yolo County) and recently led preparation of the Hydrology chapter for the Rockville Trails Estates EIR (Solano County). Other recent projects include the Hydrology chapters for the North Chico Retail and Annexation Specific Plan EIR and the Meriam Park Mixed-Use Project EIR, both in Chico (Butte County),

and the City of Lone's wastewater master plan (Amador County). Since 2005, Mr. White has managed Balance's Auburn office. He is a Registered Environmental Assessor in California.

David Brunzell

BCR Consulting

David Brunzell is owner and principal investigator of BCR Consulting. He holds a Master of Arts in Archaeology from California State University, Fullerton. Mr. Brunzell is a Registered Professional Archaeologist (RPA) and has conducted professional archaeological work in California, Alaska, Utah, Nevada, and Oregon for 15 years. He has managed all phases of cultural resource work, and has assisted with government agency and tribal consultation on numerous projects. Mr. Brunzell has presented and published academic papers on prehistoric and historic lithic technology, and historic migration routes. He has also taught anthropology and archaeo-astronomy at the University of La Verne and the Community College of Southern Nevada in the United States and Central America.

Hans Giroux

President, Giroux and Associates

Mr. Giroux is the founder and President of Giroux & Associates. He has prepared or supervised over 3,000 environmental reports on noise/acoustics, air quality, dust, odor or radioactive dispersion. His depth of experience allows him to prepare environmental studies that are accurate, timely and cost-effective. Mr. Giroux will be responsible for conducting the air quality and noise analyses. Giroux and Associates has prepared technical analyses for at least 25 mining operations throughout the region. His recent mining projects with Envicom Corporation include the Best Rock, Grimes, and Wayne J Mining EIRs and the Sakaida & Sons Surface Mine Project EIR.

Ken Wilson, RG, CEG

Principal Geologist, Wilson Geosciences, Inc.

Mr. Wilson has worked as an engineering geologist since 1970. Mr. Wilson, as principal geologist, is a Registered Geologist (#3175) and Certified Engineering Geologist (#928) in California and has more than 28 years of experience in performing large, small, complex, and routine investigations in the region. Mr. Wilson's specialization is assessment of geologic constraints on site development and characterization of sites involving the collection, compilation and analysis of different types of geosciences and hydrologic data in order to make land use decisions in the framework of the EIR process. With his extensive experience in interpretation of aerial photographs and other existing data sources as a primary and secondary tool to fill gaps in existing data bases, Mr. Wilson has provided Envicom with support in the preparation of geologic, seismic and grading/drainage sections for EIRs for many years. Recently, Mr. Wilson conducted third party reviews and prepared geology and hydrogeology analysis for mining projects including the Sakaida and Sons Surface Mining Project EIR in Los Angeles, and extensive work in the City of Irwindale involving and EIRs for the expansion and closure of operations, including geophysical investigation and engineering evaluation for several mines in the City of Irwindale, and surface mine analysis for a City of Azusa General Plan Update.

FIRM EXPERIENCE

Envicom Corporation has completed numerous CEQA documents and other environmental studies for projects within Central and Southern California including new and expanded mining projects and other complex projects.

Brief summaries of some of our mining experience are provided below followed by additional relevant project experience provided on the subsequent pages.

Santa Clara River Sand and Gravel Extraction Master EIR

Ventura County Resource Management Agency

Envicom Corporation conducted a comprehensive environmental analysis of all existing commercial sand and gravel mining activities in the Santa Clara River and projected sustainable levels of mineral resource recovery (based on analyses of the records of sediment gauging stations) that would be consistent with the maintenance of the river's aquatic and riparian fauna and flora and the stability of beaches down-current of the Santa Clara River mouth along the shoreline of the Oxnard Plain to Point Mugu and Malibu. Impacts to the river's hydrology and vertical degradation, lateral, and headward erosion and intermittent beach replenishment were each assessed. Impacts to groundwater and hazards to engineering structures including bridges, levees, and pipeline crossings were also evaluated.

Union Asphalt Development Plan

County of San Luis Obispo

Envicom Corporation conducted environmental initial study evaluations for the expansion of a 38-acre sand and gravel mine in the Salinas River in San Luis Obispo County. An annual increase in production of 60,000 cubic yards of sand and gravel per year was projected. The study analyzed potential impacts to biological and groundwater resources and sedimentation transport.

Riparian Habitat Mining Mitigation Plan-Santa Clara River

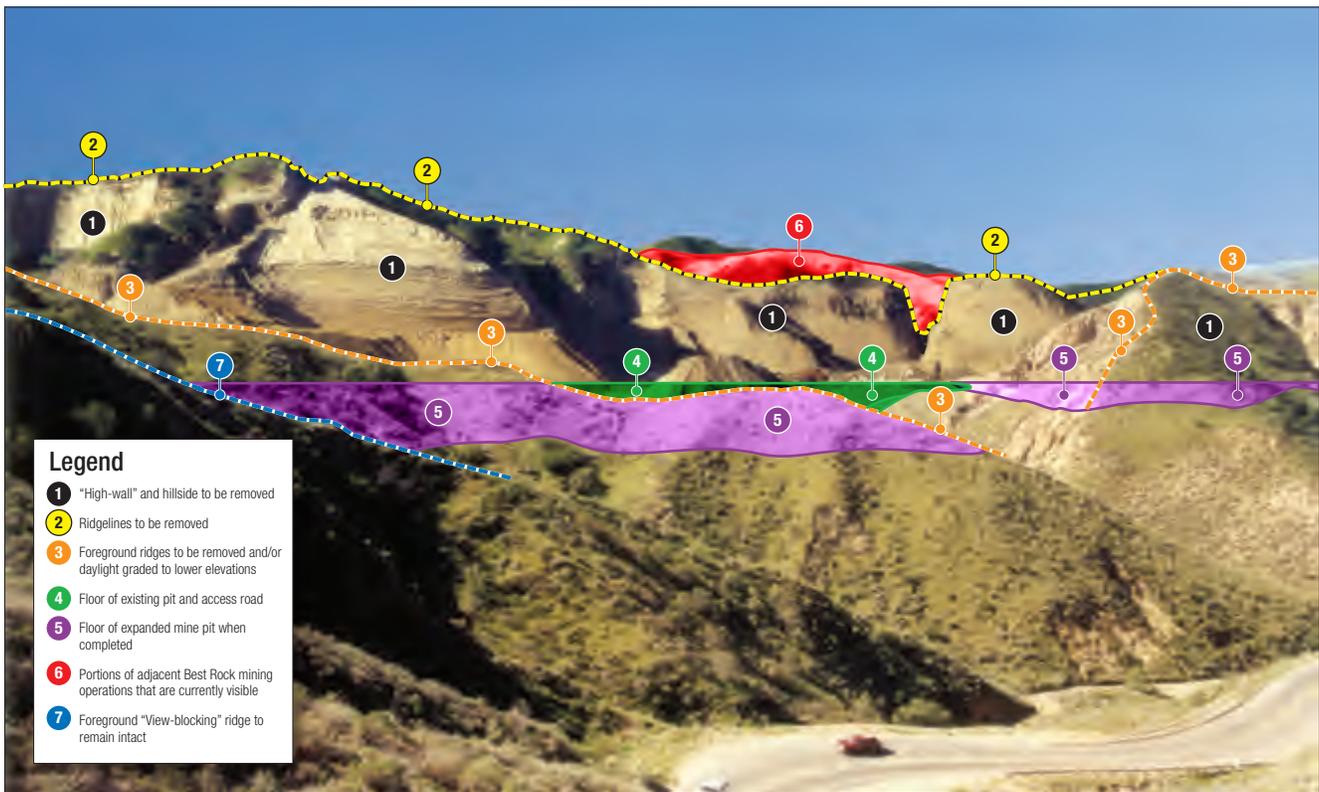
Ventura County Rock, Inc./U. S. Army Corps of Engineers/Ventura County Flood Control District

Under the direction of the USACOE and VCFCD, Envicom Corporation prepared a mitigation plan to compensate for sand and gravel mining impacts to wetland and riparian habitats. The plan established specifications for riparian mitigation site preparation; the eradication of invasive species (tree tobacco, giant reed, and castor bean); and the selection, installation, maintenance and monitoring of the restoration site.

Grimes Canyon Mining EIRs

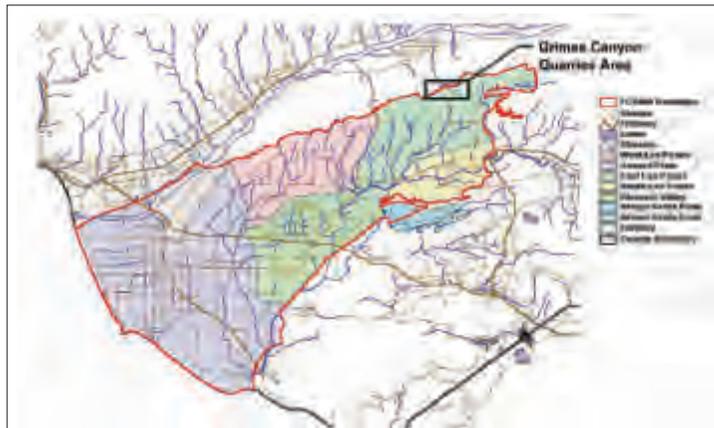
Ventura County

Envicom Corporation prepared the EIRs for three mining projects in Ventura County, proposed by Grimes Rock, Inc., Wayne J Sand & Gravel, and Best Rock Products Corporation. Each of these mining operations is requesting a permit modification to allow for expansion of permit boundaries, increased aggregate (construction grade sand and gravel) production levels, increased daily trucking limits, changes to days and hours of operation, and changes to restrictions in truck routes. These permit modifications collectively constitute the proposed projects assessed in each EIR. The EIRs identify the impacts associated with each of the mining projects, the combined effects of all three mining projects, and cumulative impact of these mining projects in combination with other growth in the area. The mines are located along State Route (SR)-23. Trucks traveling to and from these mines along SR-23 pass through the Cities of Moorpark and Fillmore, which are experiencing residential growth. Key issues raised by the proposed projects are the compatibility of expanded mining operations with land uses along SR-23, traffic congestion, and effects on biological resources, water quality, and scenic views.



The proposed Grimes Rock mining expansion would remove most of the mined hillside terrain (1 and 2), exposing the Best Rock mining operation to view.

CLIENT & LEAD AGENCY:
County of Ventura
 Resource Management Agency,
 Planning Division

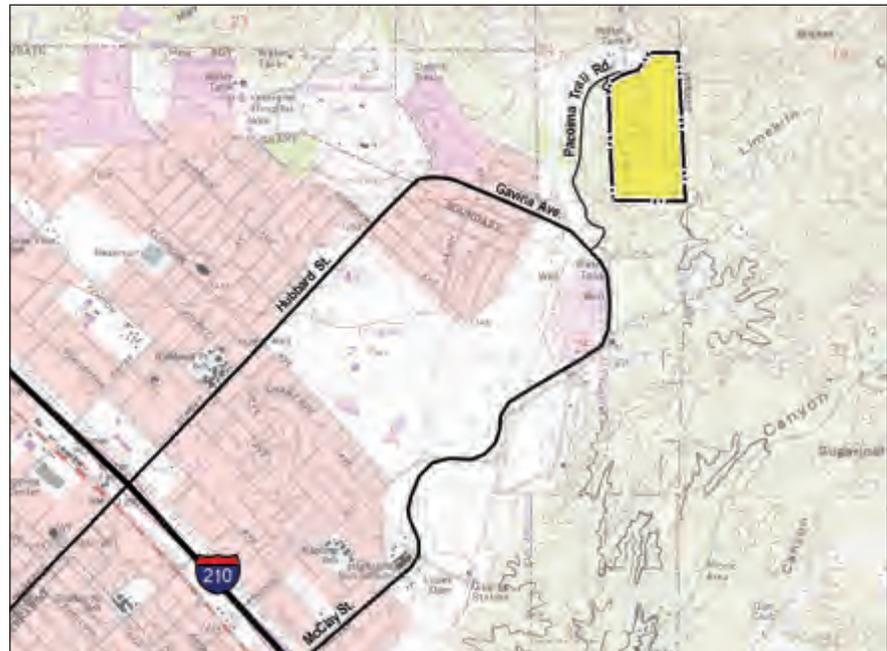


Sakaida & Sons Surface Mine Project EIR

Los Angeles County

Envicom Corporation is currently preparing an EIR for the Sakaida & Sons Surface Mine Project. The project proposes the construction and operation of a surface mine on about 25 acres within a 73-acre property in unincorporated Los Angeles County. The site is located in a mountainous area on the outskirts of the County, adjacent to and west of the Angeles National Forest, north of the Foothill Freeway (Interstate 210). It is undeveloped and naturally vegetated. The primary objective of the project is to supply a local, reliable, and cost-effective source of aggregate material to meet the area's demand for construction materials. The EIR will assess the project's potential impacts on views of the site, recreational trails (a planned alignment of the Rim of the Valley Trail traverses the proposed mining area), truck traffic, air quality, and noise impacts.

CLIENT:
Sakaida & Sons



Generalized Vegetation Map

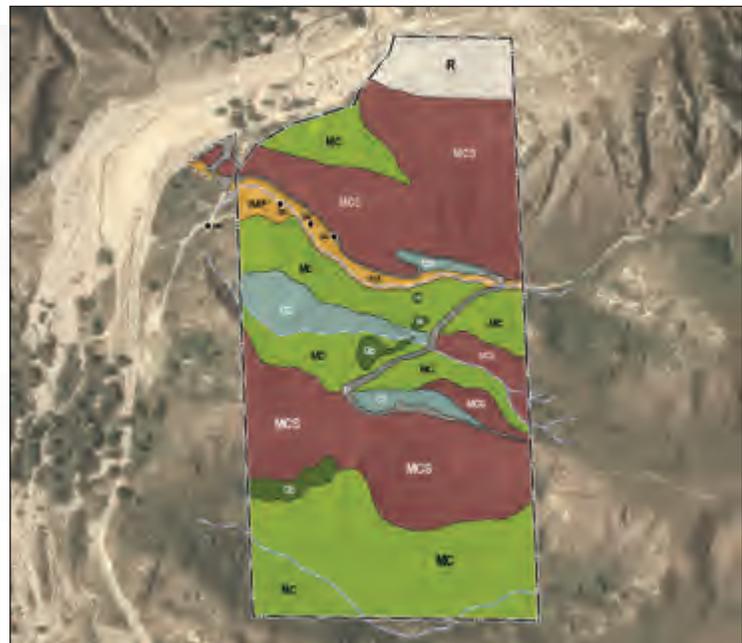
- Project Boundary
- Access Easement Parcel
- Location of Drainage

Generalized Vegetation

- RAF: Riparian Alluvial Fan Sage Scrub
- CS: Coastal Sage Scrub
- MCS: Mixed Coastal Scrub
- MC: Mixed Chaparral
- Ch: Scrub Oak - Quercus laevis
- R: Rockland
- D: Disturbed

Sensitive Species

- Davidson's Bush Mallow - *Malcolmia davidsonii*



Ozena Valley Ranch Mining and Aquaculture Project Biological Resources Assessment

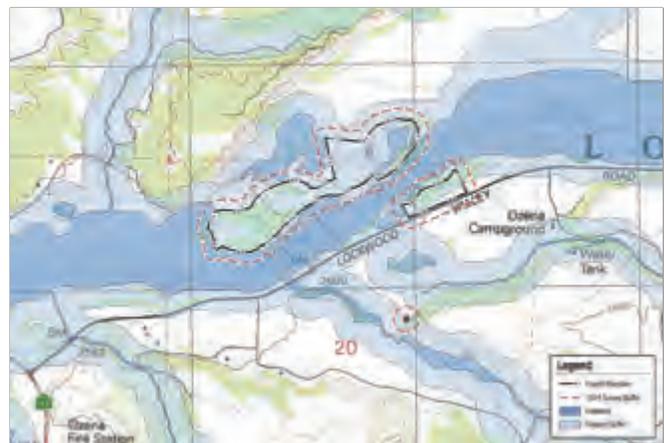
Ventura County

On behalf of the Ventura County Resource Management Agency, **Envicom Corporation** biologists prepared a Biological Resources Assessment of the Ozena Valley Ranch Mining and Aquaculture project site located in the upper valley segment of the Cuyama River. The assessment defined the existing conditions within areas occupied by an existing stock pond, processing area, and stock pile area as well as undisturbed naturally vegetated areas planned for an additional stock pond and aquaculture tank site. Research conducted to support the assessment included a literature review of the applicant's biology studies, the County's BIOS data, the California Natural Diversity Database (CNDDDB), and field surveys over a period of three days. Issues addressed in the assessment followed the requirements of the County's Initial Study Biological Assessment, which include: Vegetation Communities and Plant Species, Wildlife, Migration Corridors, Wetlands and Other Jurisdictional Areas, and Sensitive Resources.



Vegetation Communities

CLIENT:
Ventura County Resource
Management Agency



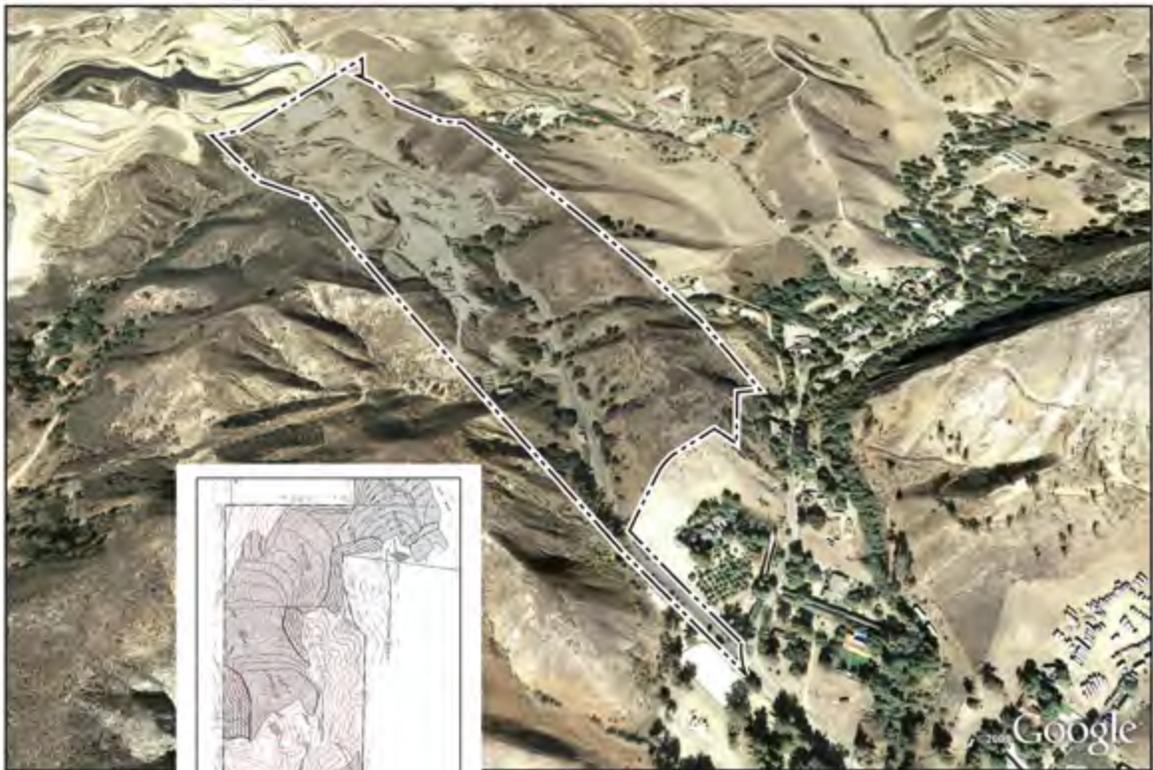
Ventura County Wetland Inventory and Wetland Buffers

Tapo Rock & Sand Products Mining Conditional Use Permit Environmental, Permitting and Entitlement

County of Ventura

Envicom Corporation provides land use and environmental consulting for the continued operation of Tapo Rock and Sand Product's sand and gravel mining operation within the County of Ventura. Envicom provides compliance coordination and environmental representation with agencies that have regulatory oversight of uses allowed under the mine's Conditional Use Permit and other appurtenant permits within the extensive regulatory framework that oversees the project. Recent consulting services have included processing of a CUP time extension, formulation of conditions of approval, environmental document determinations, and site boundary adjustments to account for future mining and areas that have undergone final reclamation per the Surface Mining and Reclamation Act. Other work tasks include coordination with the County Air Pollution Control District (APCD) to secure Permits to Operate for upgrades and changes to crushing and screening plants

In conducting SMARA Coordination, Envicom works with Ventura County staff and the State of California (if necessary) to ensure annual SMARA compliance in the form of Financial Assurances, site inspections, condition compliance, and mining and reclamation plan compliance. This role includes digital mapping in GIS to demonstrate annual mining progress and areas requiring reclamation financial assurance.

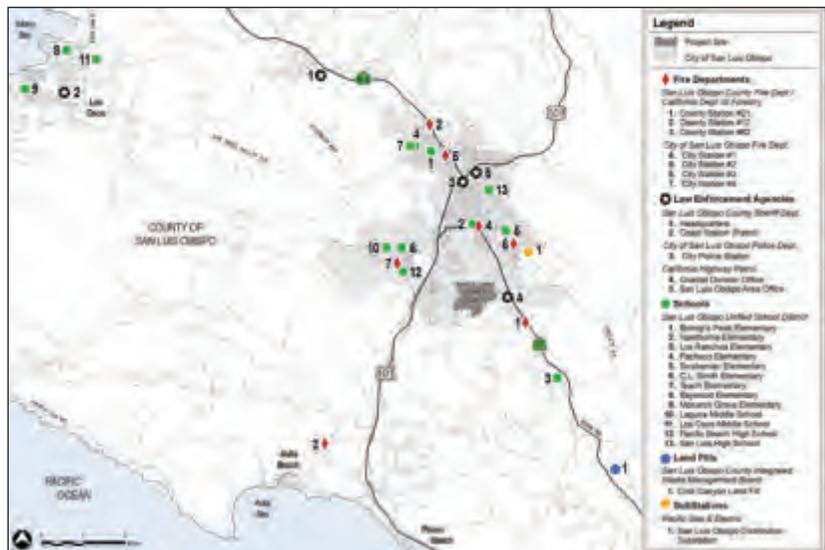


CLIENT:
Tapo Rock and
Sand Products

Chevron Tank Farm Restoration and Redevelopment EIR

County of San Luis Obispo Department of Planning and Building, and
City of San Luis Obispo Community Development Department

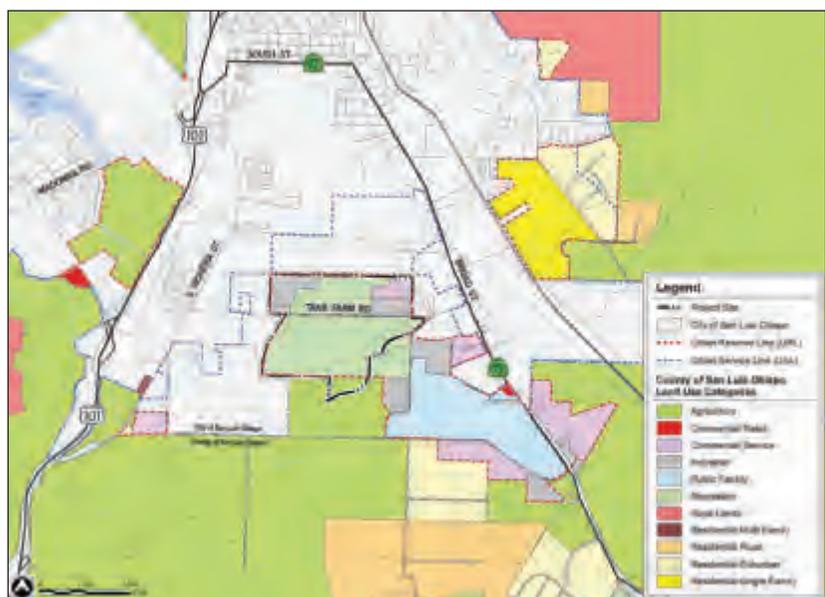
Envicom Corporation is part of a team that is preparing a comprehensive EIR for the restoration and redevelopment of a 332-acre Chevron Tank Farm property. The site is currently under the jurisdiction of the County of San Luis Obispo; however, it is within the City of San Luis Obispo's sphere of influence and has been considered for annexation into the City. Because of this potential annexation, the project proposes two separate development options, one under the jurisdiction of the City of San Luis Obispo, and one under County jurisdiction. Therefore, both the City and County serve as co-lead agencies. This presents a unique challenge in preparing the EIR. Each jurisdiction allows for different site uses and densities; requires different utility and service providers; may utilize different thresholds of significance; and varies in mitigation requirements. The project proposes commercial and industrial uses at the site. Development is proposed to occur in five phases over a period of 25 years with each phase constructing approximately 160,000 square feet of leasable floor area. Envicom Corporation is preparing the land use and policy consistency, public services and utilities, population and housing, and recreation sections of the EIR.



Parks and Recreation Facilities

CLIENT:
County of San Luis Obispo
Department of Planning
and Building

City of San Luis Obispo
Community Development
Department



County of San Luis Obispo Land Use Categories

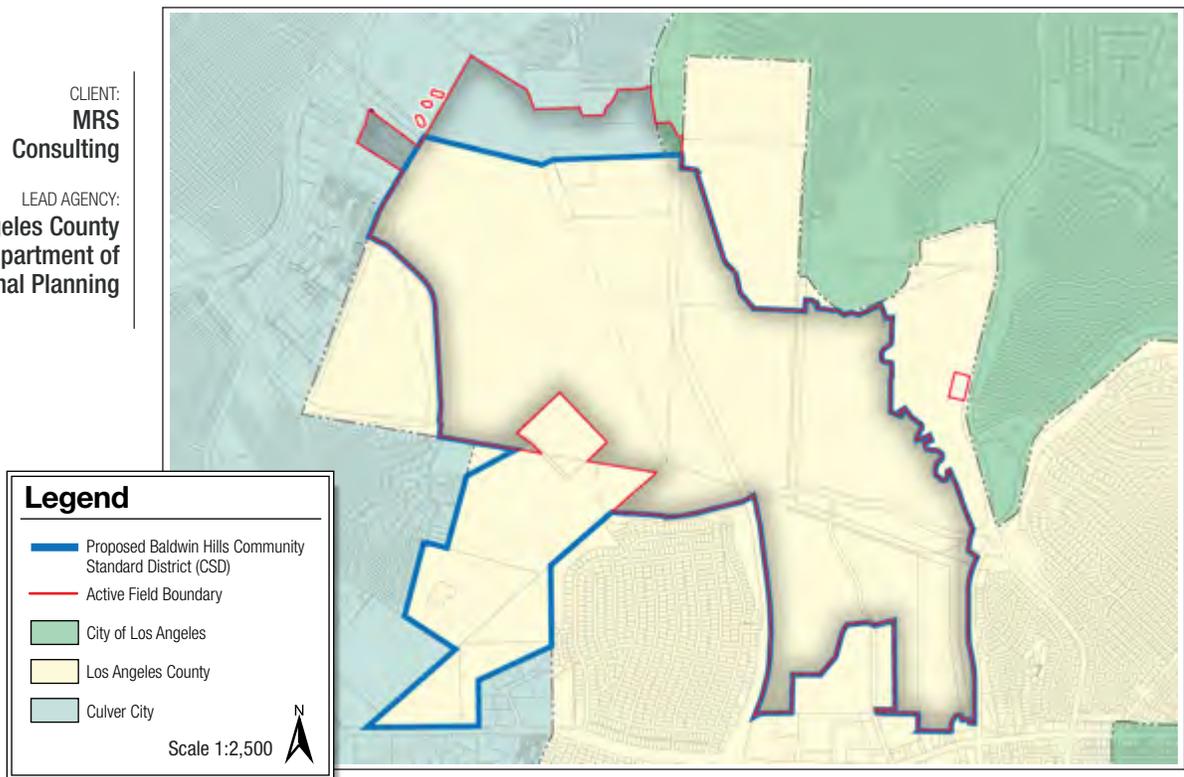
Baldwin Hills Community Standards District (CSD) EIR

Los Angeles County

Envicom Corporation was part of a team that prepared a comprehensive EIR for the County of Los Angeles' Community Standards District (CSD) that was created for, and covers, the active portions of the Inglewood Oil Field in the Baldwin Hills. The CSD was created by the County upon application for the special district by the oil field operator (Plains Exploration and Production Company—PXP). PXP proposed a highly controversial project to drill new wells to extend the life of the field. The CSD would establish a means and framework for the establishment of development standards and enhanced operating conditions for the controversial project. Since the beginning of the oil field's initial and relatively "remote" development in 1924, the growth of the cities and communities that surround the Baldwin Hills have encroached upon the boundaries of the active oil field operations from all sides, placing sensitive residential, public school and park land uses in close proximity to active oil field operations. The sections of the EIR prepared by Envicom Corporation included: Transportation and Circulation; Land Use and Policy Consistency Analysis; Recreation; Visual Resources and Aesthetics; and Public Services and Utilities. To complete the Visual Resource and Aesthetics and Land Use Sections Envicom Corporation's professional staff undertook field investigations of surrounding streets and of major transportation corridors to identify all surrounding land uses and potentially sensitive public and private property locations to the expanded oil field operations.

CLIENT:
**MRS
Consulting**

LEAD AGENCY:
**Los Angeles County
Department of
Regional Planning**



Lake Sherwood Tract 4192 / 4409 Environmental and Biological Services / Agency Permitting / Monitoring

Ventura County

Envicom Corporation has served as the lead environmental consultant to Sherwood Development Company on the Tract 4192/4409 Residential Golf Course Development of 101 estate residences and an 18-hole par 3 Jack Nicklaus Golf Course in eastern Ventura County. Our involvement initiated with preparation of existing conditions biological surveys for general vegetation, rare plants, as well as focused surveys for sensitive species. Sensitive species identified on the site include San Diego horned lizard, Lyon's pentachaeta, least Bell's vireo, Western Pond turtle, and Qiono Checkspot. Existing conditions technical reports and impact sections were prepared to support preparation of an MND by the County, and subsequent permit applications for a CDFG Section 1603 Streambed Alteration Agreement, an ACOE Section 404 Nationwide Permit, and a RWQCB Section 401(b) Water Quality Certification. Envicom processed all three of the Trustee Agency permits and negotiated with CDFG to allow for the payment of a significant in-lieu fee mitigation to the Mountains Restoration Trust for the purchase and preservation of off-site resources. Based on the conditions of the Agency permits and the County MND, a series of eight (8) mitigation and monitoring plans were prepared, including a Wetland / Oak Woodland Mitigation Plan, an Oak Tree Preservation and Relocation Plan, a Fuel Modification Plan, a Lyon's Pentachaeta Habitat Enhancement Plan, a Weed Abatement Program, an Integrated Pest Management Plan, a Capture and Relocation Plan, and Pre-Construction Clearance Protocol surveys for San Diego horned lizard, and least Bell's vireo. **Envicom Corporation** conducted construction and long-term monitoring to satisfy the numerous requirements of the approved monitoring plans. Our monitors were in the field five (5) days a week providing oversight, recording observations, and providing construction crew training to alleviate potential impacts before they occur.

CLIENT:
Sherwood
Development

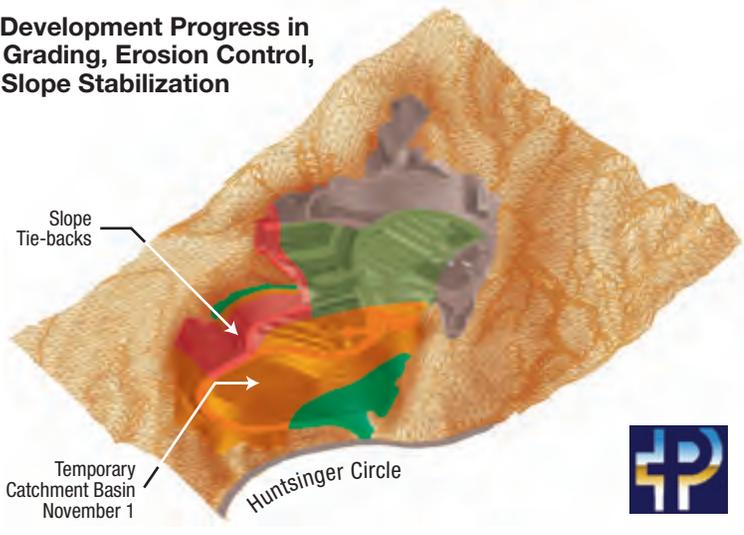


Pepperdine University Graduate Campus Project Development EIR

Los Angeles County

Envicom Corporation currently serves as the prime environmental and entitlement consultant for Pepperdine University on the implementation of their Long Range Development Plan. In this capacity, **Envicom Corporation** prepared an exhaustive EIR on the full buildout of Pepperdine University’s Graduate Campus, which includes development of a 360,300 square-foot Graduate Complex. The project also includes 234,800 square foot of student and faculty housing. The complexity of the EIR was compounded by many separate but highly interrelated projects such as the establishment of a new sewer district, sewer annexations, implementation of a new stockpile area for campus construction activities, ongoing debris basin maintenance, and “waters of the U.S.” delineation and mitigation, etc., all of which require separate but parallel permitting from multiple federal, state, and local public agencies, including the California Coastal Commission, City of Malibu, and the County of Los Angeles. The Graduate Campus Project received all necessary approvals and has been constructed. Envicom Corporation is currently assisting the University with environmental documentation for a new set of improvements to the campus.

3-D Development Progress in Site Grading, Erosion Control, and Slope Stabilization



Heritage Valley Parks Conceptual Design Plans for Enhancement of Riparian and Wetland Water Quality and Wildlife Habitat

City of Fillmore

Project Objectives: Pursuant to project impacts to waters of the US and in anticipation of mitigation requirements relative to Section 404, Section 401 Water Quality Certification and CDFG 1603 Streambed Alteration Agreement permits, **Envicom Corporation**, with PACE Engineering, Inc., developed conceptual plans for reconstruction and naturalization of a creek channel for enhancement of water quality and wildlife habitat.

Services Provided: To date, including the creek enhancement plans, **Envicom Corporation** has provided a variety of services, including: project planning, biological resources surveys, biological resources mapping, jurisdictional waters delineation, project impact assessment, regulatory permit assistance and coordination with resource agencies, and development of technical studies. Surveys have been conducted for sensitive riparian bird species, including the Federally and State endangered least Bell's vireo and State endangered Southwestern Willow Flycatcher.

Designs for Naturalization of Sediment Pond /Creek: **Envicom Corporation** staff, teaming with PACE Engineering, Inc., developed conceptual designs plans for creation of emergent marsh wetland areas in a regional sediment basin. In addition, design plans for the naturalization of a proposed creek 1,900-feet in length were developed. Emergent wetland plants are proposed as in-stream habitat and riparian plants were proposed for planting on creek banks. Designs for channel habitat diversity were proposed by incorporating riffles, pools, rocky substrate and woody debris. These design features provided dual functions of water quality enhancement and wildlife habitat. Our staff will subsequently develop a detailed restoration and monitoring plan for the proposed restoration.

CLIENT:
Heritage Valley
Parks Project,
Ventura County

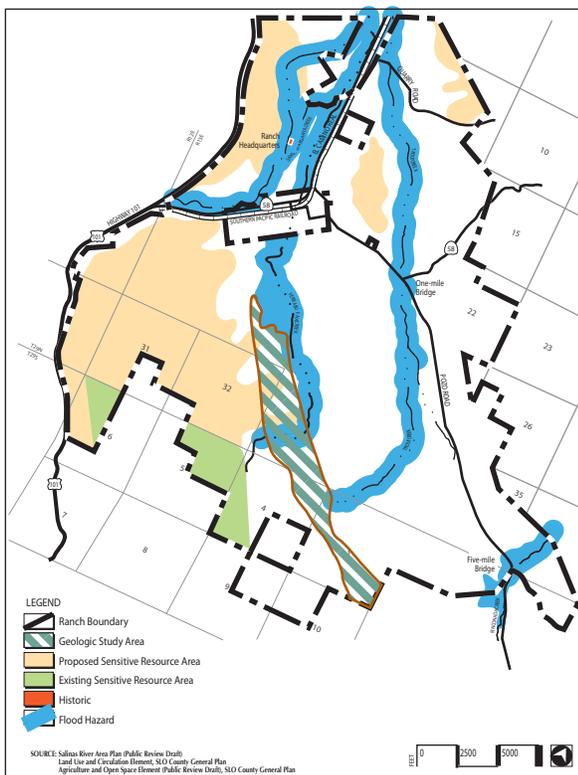


Santa Margarita Ranch Environmental Constraints Analysis

San Luis Obispo County

Envicom Corporation prepared a comprehensive evaluation of environmental constraints for the 14,000-acre Santa Margarita Ranch. The constraints analyzed examined a full range of environmental topics, all of which, were judged by County staff to be a critical component of future policy decisions to consider allowing urban levels of development on the Santa Margarita Ranch. The environmental constraints examined included: geotechnical constraints, water availability, drainage, erosion, sedimentation, biological resources, wildlife migration, visual resources, wildfire hazard, agricultural capacity, agricultural intensification, air quality, land use compatibility, cultural resources, public safety and traffic generation and circulation. **Envicom Corporation's** computer graphics department developed state of the art color mapping for every environmental constraint. This work greatly facilitated the clarity and usability of the study's products by the general public and by the County's decision makers. The constraints study was intended to serve as a resource for future use by both the owner and County Staff. Additionally, the Constraints Analysis was to be used as a comprehensive environmental setting for an EIR for the parcel map revision to the ranch. **Envicom Corporation** later prepared the Santa Margarita Ranch parcel map revision EIR under contract to the county of San Luis Obispo.

CLIENT:
Santa Margarita
Ranch



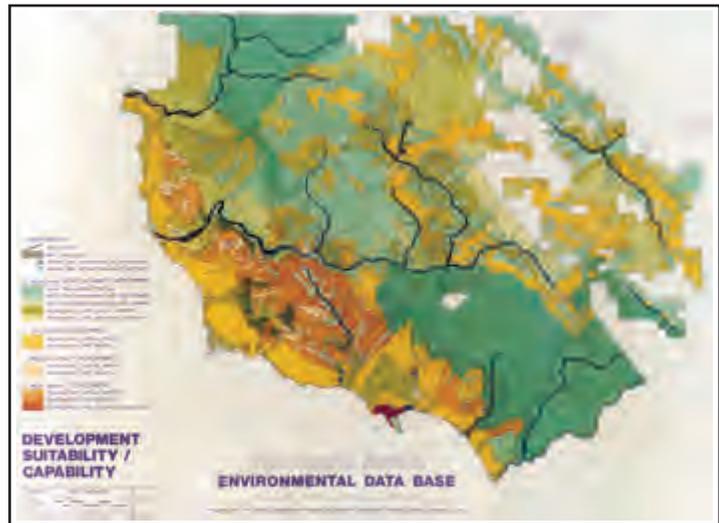
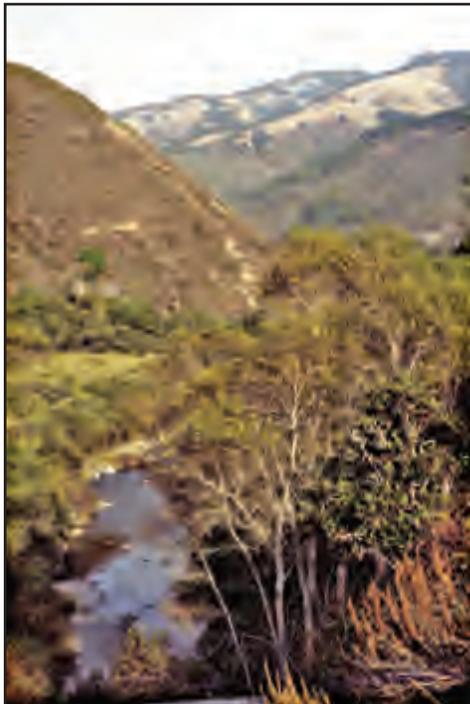
Hearst Ranch Master Planning and Entitlement

San Luis Obispo County

Envicom Corporation has provided environmental consulting services to the Hearst Corporation and has undertaken a variety of property entitlement, development and environmental due diligence-related assignments in the planning for the eventual development of the 88,000 acre Hearst Ranch in coastal San Simeon, California.

Planning efforts focused on sub-parcel-specific ecological sensitivity/hazards, land suitability, development capability for selected areas utilizing a composite synthesis of each of the environmental data topics involving specific physical, ecological, and resource factors. Planning studies included: (1) preparation of a comprehensive environmental data-base to meet San Luis Obispo County concerns over the Ranch's development that included in-depth original research of biological, physical, ecological and historical factors for the entire ranch; (2) preparation of Master Plans and alternatives for the dispersed development of five destination resorts on the ranch property; (3) preparation of a master environmental impact report for the development and appropriation of groundwater reserves to serve the developments; (4) liaison with County of San Luis Obispo officials to gain appropriate general plan designation for development of the Hearst Ranch and approval of the Master Plan by the County and the California Coastal Commission; and (5) site specific development planning and environmental due diligence for the first phase of development.

CLIENT:
The Hearst Corporation



Development Suitability Capability map



Natural Amenities map



V. STUDY METHODOLOGY

Envicom Corporation will prepare all documentation necessary to successfully complete the environmental review process pursuant to the California Environmental Quality Act (CEQA) and CEQA Guidelines. Below is an outline of the anticipated task-by-task scope items in chronological order. These tasks are followed by a discussion of the methodology for addressing each of the environmental issue areas that will be included in the EIR.

Task 1

Preparation of Administrative Draft EIR

Envicom Corporation will prepare an Administrative Draft EIR (ADEIR) with appendices for County review. We will work closely with the County to produce this version of the document, as this task is the first major deliverable product and will set the stage for subsequent deliverables. Any concerns or information needs will be communicated and efficiently resolved to assure their timely resolution and to maintain the project schedule.

The following subtasks describe the major elements of the document.

Subtask 1.1 – Project Description/EIR Outline

Envicom Corporation will prepare the EIR Project Description and EIR Outline. The Project Description will be complete with appropriate graphics and will describe all aspects of the project, including proposed physical changes to the site, on-site operational activities, and off-site trucking. It will also identify the project's objectives and required approvals. The EIR Outline will identify each of the sections to be included in the document and a typical outline for the subsections to be included in each of the impact analyses.

Envicom Corporation will submit a draft Project Description and EIR Outline to the County for review. The approved Project Description and EIR Outline will serve as the basis for all of the EIR analyses. Our cost estimate assumes one round of revisions to the draft Project Description and EIR Outline and that these do not change once the County has approved them and the impact analyses are underway.

Deliverables will include four (4) hard copies and one electronic copy of the draft Project Description and EIR Outline.

Subtask 1.2 – Environmental Setting

A description of the general environmental setting will be included in the EIR as a separate section prior to the environmental impact analyses. This section will provide an overview of the site's setting, including existing and historical land uses in the project area and at the site, General Plan land use designations, and Zoning. This section will also describe the regional mining context in terms of the existing demand and supply for decomposed granite and granite aggregate in the region. Detailed descriptions of existing conditions pertaining to each environmental issue area will be provided in each of the impact analysis sections, as described under Subtask 1.3.

The environmental setting will also provide a list of related projects to be considered in the cumulative impact analysis. This list will be prepared in consultation with the County, and will

include projects that are proposed and projects that have been approved but not yet constructed. Of particular importance for this project are other proposed mine operations in the area.

Subtask 1.3 – Impact Analyses

Existing Conditions

In addition to the information provided in the Environmental Setting section described in Subtask 1.2, above, an in-depth description of existing conditions will be provided in the environmental analysis section for each issue included in the EIR. The breadth and depth of the environmental setting information will reflect the information and level of detail that is relevant and necessary to support the impact analysis.

Thresholds of Significance

The Initial Study and CEQA Guidelines (Appendix G) will provide the basis for significance thresholds used to determine impact significance. Local standards related to environmental impacts (e.g., those set forth in the County's General Plan or ordinances) will also be used in the formulation of significance thresholds, as appropriate.

Determination of Environmental Impacts

Envicom Corporation will identify both the direct and indirect environmental effects that could result from project approval. Our analysis will be based on our peer review of previously completed technical studies, in concert with new technical work and objective assessment of the project. Substantive evidence for our findings and the analytical methods used will be integrated into the discussion. All impacts will be evaluated against stated significance thresholds. Impacts will be quantitatively and/or qualitatively assessed, as appropriate. We will follow an approach that helps in understanding project effects both before and after mitigation, and makes clear the connection between project components, environmental impacts, and mitigation measures.

Determination of Cumulative Impacts

As discussed above, a list of related projects (i.e., other projects in the area that, when considered in combination with the proposed project, would result in the potential for significant cumulative impacts) will be developed in consultation with the County. Cumulative impacts will be evaluated for each environmental issue based on this list and/or projected growth rates, as applicable. For each environmental topic, the Envicom team will identify the potential for significant cumulative impacts that would occur as a result of the proposed project in combination with related projects. If a significant cumulative impact is identified, the EIR will assess whether or not the project's incremental impacts are "cumulatively considerable," as per Section 15130 of the CEQA Guidelines. We understand that the potential for cumulative impacts associated with the proposed project and truck traffic generated from nearby Hansen Aggregates mine. Our analysis will fully assess potential cumulative impacts accordingly.

Identification of Mitigation Measures

A key element of the environmental process is to propose measures that can eliminate or reduce significant adverse impacts. Practical and feasible mitigation measures will be identified for each significant environmental impact that may be generated by the project. Any indirect adverse effects associated with the implementation of mitigation measures will also be identified

and additional mitigation will be proposed if necessary. Mitigation measures will be clearly worded to avoid ambiguity and assure proper implementation through the Mitigation Monitoring and Reporting Program.

Determination of Residual Impacts/Significant Unavoidable Adverse Impacts

Each environmental impact will be reviewed to determine the level of significance of impacts both before and after mitigation. The level of significance will be clearly stated for each impact, clearly identifying significant unavoidable adverse impacts.

Subtask 1.4 – Evaluation of Alternatives

As described above, we believe the alternatives analysis is particularly important for this project. As such, we will work closely with the County to define a range of alternatives that satisfies CEQA requirements and frames reasonable options for the proposed mining operation. In accordance with Section 15126.6 of the CEQA Guidelines, the alternatives will be designed to reduce or eliminate the project's significant impacts while still meeting most of the project's basic objectives. It is our opinion and practice to develop the alternatives after the environmental analysis is underway and all of the significant impacts are identified. In this way, they will be tailored to address the specific project impacts and will be designed with a greater understanding of the relevant conditions at the site and in the area. Our proposal assumes that the EIR will include up to four alternatives. The following provides a preliminary framework for developing alternatives to be included in the EIR based on our previous mining experience and current understanding of the project:

- No Project – This alternative will assume that the proposed project is not approved, and the proposed mining would not occur.
- Revised Mining Plan – If the analysis identifies significant impacts specifically associated with one or more aspects of the mining plan (e.g., depth and/or areas of excavations, extraction rates or quantities, etc.) or reclamation activities, an alternative may involve the revision(s) of this plan.
- Alternative Operations – If the analysis identifies significant impacts that are attributable to the operational characteristics of the project (e.g., hours of operation, uses, etc.), an alternative may involve restricted operational parameters.
- Alternative Route (Other Potential Routes) - We understand that a key factor in the project's potential impact on the surrounding community relates to the route along which trucks would travel to and from the site and the extent to which sensitive land uses are present along that route. Our approach includes an assessment of all potential routes that would provide reasonable and practical truck access from Highway 101 to the project site. Once these routes have been identified, we will determine which one would provide the greatest reduction in potential impacts as compared to the proposed truck route. If one such route exists, it will be selected for analysis. If none are found to reduce impacts, the analysis will simply explain the route options reviewed and why none was selected for further analysis.

We will analyze each alternative for the same set of environmental issues as the proposed project. The analysis will provide a qualitative comparison to identify whether or not the alternative would increase, decrease, or not affect the impacts expected under the proposed project. In accordance with CEQA, an environmentally superior alternative will be identified

from the alternatives evaluated. If the No Project Alternative is found to be superior, the EIR will identify a superior alternative among the remaining alternatives.

Subtask 1.5 – Other Required EIR Sections

In addition to the topics listed below under *Methodology for Analysis of Environmental Issues*, the EIR will include the following:

- Table of Contents – The Table of Contents will be organized to provide sufficient level of detail for the reader to easily navigate the document.
- Introduction/Executive Summary – This will include an introduction to the EIR (describing the purpose and public review process for the EIR), a summary of the project description, the project’s significant impacts, and the alternatives. A tabular summary of all environmental impacts will be presented. Potential areas of controversy and issues to be resolved will also be discussed.
- Growth Inducing Impacts – This section will provide a discussion of the ways in which the project could foster economic or population growth, either directly or indirectly, in the surrounding area.
- Irreversible and Irrecoverable Commitments of Resources – This section will identify the extent to which the proposed project's primary and secondary impacts will commit non-renewable resources to uses that future generations will probably be unable to reverse.
- Preparers of the EIR, Contacts, References – This section will provide a list of County and consultant team members who contributed to preparation of the EIR, as well as all Federal, State, local agencies, community groups, and other persons and organizations consulted regarding the preparation of the EIR. It will also include a list of all reference sources used in the preparation of the EIR.
- Technical Appendices – These provide supplemental technical material pertinent to the preparation of the EIR.

Subtask 1.6 – Mitigation Monitoring and Reporting Program

We propose to include a Mitigation Monitoring and Reporting Program (MMRP) pursuant to Public Resources Code Section 21081.6 at the Draft EIR stage. We anticipate that the ability to monitor mitigation measures identified in the EIR will be an important factor in assuring that impacts, particularly those pertaining to truck traffic would be effectively mitigated. The MMRP will consist of the following specific elements:

- Identification of mitigation measures that reduce significant impacts;
- Identification of the regulatory (enforcement) agency responsible for the implementation of each mitigation measure;
- Specific methodologies to monitor the implementation and effectiveness of adopted mitigation measures; and
- A reporting program to document findings of the monitoring program.

Subtask 1.7 – Envicom Internal Review

An important element of the ADEIR preparation is our internal review of each of the EIR sections and the document as a whole. This assures internal consistency throughout the

document, with respect to both content and approach. The project manager and/or director of environmental services will be responsible for this review.

Subtask 1.8 – Document Preparation/Production of Administrative DEIR

Once the ADEIR is complete, we will provide 5 copies of the ADEIR to the County (4 hard copies in three-ring binders and 1 CD with Word files). This task includes word processing, graphics, and production for the entire document.

Task 2

Preparation of the Draft EIR

Upon receipt of the County's comments on the ADEIR, Envicom Corporation will revise the DEIR accordingly and prepare a Screencheck Draft EIR so that the County can conduct a final review of the document before it is published. We will submit the Screencheck document to the County electronically. After receiving County comments on the Screencheck DEIR, Envicom Corporation will make final modifications as necessary in order to prepare the DEIR for formal public and outside agency review.

Our proposal assumes that, for each of the two anticipated rounds of review, we receive one set of comments from the County, provided in a redline/strikethrough format or another format in which all edits and comments are clearly visible. It is difficult to identify the level of effort for this task prior to receipt of the comments, however, an estimate is provided for purposes of this proposal.

Draft EIR Deliverables

We will provide the County with 45 copies of the DEIR as follows:

- 5 hard copies with appendices (in three-ring binders)
- 15 bound copies with appendices included on a CD in an envelope
- 25 CDs (including graphics and appendices) in searchable .pdf format
- 10 separately bound copies of the appendices
- 1 electronic copy in original Word format

We will also provide 1 electronic copy of the DEIR for placement on the County's website, in a format that is easily downloadable.

Our proposal assumes that the County will prepare and post the required notices and distribute the DEIRs.

As requested in the RFP all copies of the DEIR (as well as all other deliverables) will be double-sided, using back ink, and printed on recycled paper.

Task 3

Preparation of the Administrative Final EIR

Our proposal assumes that the Administrative Final EIR (AFEIR) document will consist of the entire DEIR, revised as necessary, Response to Comments, and appendices. Envicom Corporation will provide the County with five (5) copies of the AFEIR to the County (2 three-hole drilled, 2 bound, and one CD).

Response to Comments

Upon completion of the public review period for the DEIR, Envicom Corporation will prepare the Response to Comments (RTC) section of the FEIR. We will assign a number to each comment and identify the project team member responsible for providing a response. For repeated comments, topical responses may be provided up front and referenced in the responses to individual letters so as to avoid repetition.

Based on the comments received on the NOP/Initial Study, we anticipate that there may be numerous comments on the DEIR; however, the overall level of new comments is expected to be moderate in that potential comments are likely would likely center around a few key issues. Also, the scope of work associated with response to comments and revisions to the EIR cannot be known prior to receiving comments on the DEIR. An estimate has been made for purposes of the cost estimate provided in this proposal. *However, we anticipate that the scope and cost for this task may be refined in consultation with the County when all comments are compiled following public review. Our proposal also assumes that no new technical analysis would be required as part of the response to comments effort.*

EIR Revisions

In the event that any comments, responses, and/or analysis subsequent to the DEIR result in edits to the FEIR, these will be provided in a redline/strikethrough format or other format in which all edits made are clearly visible. We anticipate that there would be a minor level of revisions made to the EIR. Our proposal assumes that no new technical analysis would be required for the FEIR.

Task 4**Preparation of Final EIR**

Upon receipt of the County's comments on the AFEIR, Envicom Corporation will revise the document accordingly and prepare a Screencheck FEIR so that the County can conduct a final review of the document before it is published. We will submit the Screencheck document to the County electronically. Following County review of the Screencheck FEIR, we will make any necessary final revisions to the document. Our proposal assumes that, for each of the two anticipated rounds of review, we receive one set of comments from the County, provided in a redline/strikethrough format or another format in which all edits and comments are clearly visible. It is difficult to identify the level of effort for this task prior to receipt of the comments, however, an estimate is provided for purposes of this proposal. Our proposal assumes that the County will prepare required notices and distribute the FEIRs.

Findings (Optional Task)

Findings will be prepared at the time of the Screencheck FEIR in accordance with Sections 15091 and 15093 of the CEQA Guidelines and provided to the County prior to preparation of the FEIR and in a format acceptable to the County. Findings will be prepared on a time and materials basis with a not to exceed budget of 50 hours. The Findings is included as an optional task.

Deliverables for the *Findings* shall include two (2) unbound copies and one electronic version.

Final EIR Deliverables

We will provide the County with 55 copies of the FEIR as follows:

- 5 hard copies with appendices (in three-ring binders)
- 25 bound copies with appendices included on a CD in an envelope at the back of the documents
- 25 CDs (including graphics and appendices) in searchable .pdf format
- 15 separately bound copies of the appendices
- 1 electronic copy in Word format

Task 5**Management/Coordination/Administration**

Envicom Corporation will maintain consistent communication and coordination with County staff during the preparation of the EIR. We anticipate that most of this will be accomplished via email and phone conversations, although meetings with County Staff are included in Task 6.

Task 6**Attend Meetings and Public Hearings**

As requested in the RFP, our proposal provides budget to attend one kick-off meeting with County and other agency staff, and five (5) additional staff or other agency meetings.

The Envicom Corporation Project Manager and Director of Environmental Services, as necessary, will be present at up to four (4) public hearings to provide input and participate in an advisory capacity as needed. Attendance at hearings would include making presentations and/or participating in an advisory capacity. These meetings are considered optional items and would be implemented as needed.

Should attendance by additional staff, additional meetings or hearings be required, the cost for this work would be billed on a time and materials basis, as would the preparation of materials for presentations. Our cost proposal assumes attendance by the Project Manager at all five (5) meetings and attendance by the Director of Environmental Services at up to three (3) meetings.

General Description of Deliverables

All text documents, tables, charts and illustrations will be provided on 8.5' x 11" sized sheets, and on 11" x 17" where oversized illustrations are necessary. It is likely the EIR will involve two to three volumes, with volume one containing the EIR analysis and subsequent volumes containing technical appendices. Covers to all volumes (related documents) will be coordinated as a set. As requested in the RFP, all efforts will be made to reduce the size of the EIR analysis portion to less than 200 pages. Duplication of information and analysis will be avoided to the extent feasible. Hard copies of administrative, draft and final documents will be two-sided, black ink, and on white or light recycled stock paper.

Following completion of the Final EIR, we will provide the County with one set of CDs (or other electronic medium acceptable to the County), in Word, with the Draft and Final EIR, MMRP and appendices. Spreadsheets and/or other databases developed for the EIR will be included. GIS layers developed will be submitted electronically and compatible with ESRI's Arcview GIS software and registered to the California State Plane NAD 83, Zone 5 coordinate system, units

in feet and metadata will be compatible with the ArcCatalog .XML format.

METHODOLOGY FOR ANALYSIS OF ENVIRONMENTAL ISSUES

In accordance with the scope of work set forth in the Revised Initial Study, the EIR will focus on the following environmental issues:

- Aesthetics
- Agricultural Resources
- Air Quality/Global Climate Change
- Biological Resources
- Cultural Resources
- Geology and Soils
- Hydrology, Water Quality (including Wastewater) and Water Supply
- Hazards (including fire and blasting)
- Noise
- Energy
- Recreation
- Transportation/Circulation and Roads

The water quality issues raised in Section 7. *Hazardous Materials* and in Section 13. *Wastewater* of the Initial Study will be addressed in the water quality analysis provided in the Hydrology, Water Quality, and Water Supply section.

The following provides a summary of the scope of analysis for each of the EIR impact analyses.

Aesthetics

The project site and its surroundings are characterized as open space with moderate to steep terrain. There is an east-west trending canyon near the center of the site. The proposed mining activity would occur within approximately 60 acres of the 203 acres of open space within the two parcels that comprise the project site. Highway 58 crosses the southeast portion of the site, with the majority of the 203 acres occurring immediately to the northwest of the Highway. The site is largely surrounded by undeveloped open space, with the Hanson Aggregate Quarry located less than one half mile to the northwest, the Salinas River less than one-half mile to the west, Moreno Creek to the south, opposite Highway 58 and the town of Santa Margarita approximately 2.25 miles to the northwest. Development in the area consists mainly of low-density rural residential and ranch holdings.

The proposed project would alter site slopes and add industrial-related facilities to the area in the form of two water tanks, a truck scale and scale house, as well as equipment (excavators and bulldozers, crushers and sorting equipment) and stockpiled mined materials. While these facilities and operations would occur mainly toward the center of the site and would likely be blocked by intervening topography and vegetation, visual impacts would need to be assessed to determine the extent of the project's visibility from surrounding roadways (e.g. Highway 58) and public access areas, and its compatibility with the visual character of the surrounding area. Hours of Operations would generally occur during daylight hours, and the applicant has not

requested nighttime lighting at this time. Therefore, our scope of work does not include analysis of nighttime lighting impacts.

Key factors to be considered in this analysis include the location, scale, and visual character/quality of the proposed facilities and alterations to the land surface and land forms. The aesthetics analysis will include the following tasks:

- Describe the existing visual character and quality of the project site and the immediate surroundings, utilizing photographs to help illustrate text.
- Identify and describe the quality of existing scenic views that include the project site.
- Determine the visibility (or confirm the non-visibility) of the proposed mining area, the project's equipment, facilities, and stockpiles from public view locations, primarily Highway 58. We will also assess the site's potential visibility from Highway 101.
- Prepare up to two photo-simulations that illustrate the project's effects from up to two key/representative view locations.
- Evaluate the impact of the project on scenic vistas/features and its consistency with the visual character of the area.
- Include written analysis of impacts as they relate to relevant policies and standards.
- Identify measures necessary to mitigate potentially significant impacts. Measures may include landscape screening, restrictions on facility/equipment locations, etc.

Agricultural Resources

The proposed project would temporarily remove on-site agricultural uses and would have the potential to adversely affect neighboring agricultural operations. The project site is located within the County's Rural Lands category. While it is not classified by the State as Prime Farmland or Farmland of Statewide Importance, it supports livestock grazing and other ranching activities. Reclamation of the site post-mining would return the disturbed areas to open space/grazing land. During operations, the project would preclude grazing activity within the 60-acre mining and processing areas. In addition, there is the potential for mining-related impacts to surrounding agricultural activities through the off-site spread of weeds from the transport of seeds, which could result in reduced yields, increased pesticide use, increased wildfire threats and increased erosion or flooding. The operations may also result in dust from excavation and processing, as well as from truck traffic, which could affect agricultural uses through the spread of vectors such as dust mites and/or cause livestock to health risks such as Valley Fever.

Analysis of impacts to agriculture will include:

- Describe existing agricultural resources and uses at, and surrounding, the project site.
- Prepare graphics to illustrate the proximity of adjacent agricultural production to the proposed project operations.
- Evaluate impacts from the temporary conversion of grazing land to mining-related uses.
- Determine impacts of mining operations on adjacent agricultural operations/production, such as dust impacts to adjoining productive farmland. This would involve evaluating the potential for the project to spread weeds in the area, resulting in adverse impacts to agriculture including reduced yields, increased pesticide use, increased wildfire threats, and increased erosion and/or flooding. We will review and incorporate issues raised in

the Office of Mine Reclamation (OMR) letter (Department of Conservation, July 16, 2010) and SMARA weed management requirements (CCR3705(k)) as necessary.

- Assess ordinance and policy consistency (e.g. Agriculture Policy 18: Location of Improvements) for protection of agricultural resources.
- Consultant with the County Agriculture Department to assist in identifying any impacts.
- Assess indirect impacts related to access points and haul routes that might have the potential to impact agricultural production.
- Identify mitigation measures to reduce or avoid significant impacts.

Air Quality and Global Climate Change

The proposed project would result in potential air quality impacts related to on-site excavations, operation of equipment and machinery, off-site truck hauling and employee trip generation. The focus on this analysis will center around fugitive dust and vehicle and equipment emissions. The analysis will consider the proposed erosion control plan and the revegetation phases of the reclamation plan to reduce fugitive dust. The San Luis Obispo County Air Pollution Control District's (APCD's) 2003 CEQA Air Quality Handbook will be used to evaluate project specific impacts and the project's consistency with APCD's Clean Air Plan will be reviewed. The Air Resources Board (ARB) guidance document titled "Air Quality and Land Use Handbook" (ARB Handbook) will also be used where appropriate.

Specific tasks to be conducted as part of this analysis include:

- Provide a description of the atmospheric setting for the project area based on data from the San Luis Obispo County APCD air monitoring station in Paso Robles.
- Calculate regional trucking emissions using the California Air Resources Board (ARB) URBEMIS2007 computer model, and evaluate whether project-related emissions are within the thresholds identified in the APCD document "CEQA Air Quality Handbook" (revised December, 2009).
- Quantify construction activity emissions, if any, and identify candidate measures for inclusion into a Construction Activity Management Plan (CAMP).
- Discuss diesel particulate matter (DPM) emissions associated with use of off-road heavy equipment during extraction and hauling.
- Conduct a health risk screening analysis using the SCREEN3 computer model. If the screening assessment is above the 10 in a million threshold, a more comprehensive health risk analysis will be required. Our proposal assumes that a comprehensive health risk assessment is not required. However, a cost estimate for such an analysis is included as a contingency item in our cost proposal.
- Quantify potential air quality impacts to off-site agricultural or ranching activities, including potential dispersion of fungus spores associated with Valley Fever.
- Discuss potential air quality impacts to sensitive uses along the proposed truck haul route.
- Discuss project consistency with the San Luis Obispo County Clean Air Plan (CAP).
- Identify analysis and mitigation requirements should Naturally Occurring Asbestos (NOA) be present within the aggregate resources.

Global Climate Change

The EIR will include a discussion of global climate change and an assessment of the project's contribution to this issue. The analysis will include a calculation of project-related greenhouse gas (GHG) emissions and comparison of GHG emissions to the CARB threshold of significance for industrial projects (7,000 MT/year) and/or other applicable significance threshold used by the County. The analysis will also take into consideration the project's potential to reduce vehicle miles traveled by providing a local source of decomposed granite and granite aggregate for development activities within the County.

Biological Resources

A prior biological assessment of the project site by LFR (2009) identified sensitive plant communities and special-status plant and wildlife species in the mining impact area within the project site. The biological assessment also identified this portion of the site as suitable habitat for several additional potentially occurring special-status species. Locally important biological resources such as native oak trees and oak woodlands are known to occur at the site, and a drainage supporting wetland vegetation and riparian habitat flows within the mining area boundary. The drainage is tributary to the Salinas River, which contains sensitive riparian plant communities and provides habitat for several protected wildlife species.

The Biological Resources section of the EIR will establish baseline existing conditions and will include an independent impact analysis with respect to:

- 1) Unique or special-status species or their habitats;
- 2) The extent, diversity or quality of native or other important vegetation, including sensitive natural communities;
- 3) Wetland or riparian habitat, including areas under the jurisdiction of responsible agencies; and,
- 4) Wildlife movement, including barriers to movement of resident and migratory wildlife species, as well as factors that could hinder the normal activities of wildlife.

The biological assessment by LFR (2009) provides a comprehensive analysis of the site's biological resources and defines the existing conditions at the date of the study. Envicom Corporation biologists will peer review and update this study as a starting point for our analysis.

We will prepare the Biological Resources section based on the following tasks:

- A literature review that includes updated search and/or review of the following:
 - California Natural Diversity Database (CNDDDB) and the California Native Plant Society (CNPS) Inventory Database for special-status and sensitive "elements" known to occur at or in the vicinity of the site;
 - California Department of Fish and Game (CDFG) Special Vascular Plants, Bryophytes, and Lichens List;
 - CDFG Special Animals List;
 - CDFG List of California Vegetation Alliances, CDFG List of California Terrestrial Natural Communities Recognized by the California Natural Diversity Database, and The Manual of California Vegetation, 2nd ed.;

- Federal, state and local policies and planning documents pertaining to biological resources, including the San Luis Obispo County Draft Conservation and Open Space Element; and
- Available background data or documents concerning biological resources of the project area and region.
- A peer review of the following documents submitted by the applicant:
 - Sensitive Species and Habitat Survey for the Las Pilitas Rock Quarry, LFR, October 2009.
 - Las Pilitas Rock Quarry Tree Plan, Tartaglia Engineering, September 2009.
 - Las Pilitas Rock Quarry Revegetation Plan, Tartaglia Engineering, September 2009.
- An updated assessment of the potential for occurrence of special-status plant and wildlife species and sensitive natural communities at the site, based on current site conditions and new information on species or sensitive plant community status, occurrence, and distribution from the CNDDDB, CNPS and other sources.
- Envicom Corporation biologists will conduct a field survey to evaluate current conditions and conduct a search for special-status species or sensitive and unique habitats at the site. Field surveys will be conducted during periods when potentially occurring special-status species can be found and identified. Vascular plant surveys will be conducted within the mining impact area and within a 100-foot buffer, as well as in surrounding areas that may be indirectly affected by the project. General wildlife surveys will also be conducted at and in the vicinity of the mining impact area.
- Resource mapping of vegetation based on the classification system of natural community Alliances and Associations used by the CDFG Vegetation Classification and Mapping Program, as well as mapping of land cover, CDFG riparian habitat, other special habitats, oak woodlands and individual native trees and locations of any special-status species found at the mining impact area.
- Peer review of LFR's assessment that the site lacks areas subject to the regulatory jurisdiction of the Army Corps of Engineers (ACOE) as wetland or non-wetland Waters of the U.S. An ACOE jurisdictional delineation is not included in our initial scope of work. However, the anticipated costs of an ACOE delineation have been provided in the case a delineation is deemed necessary.
- An independent evaluation and analysis of project construction, operational, and cumulative impacts, and incorporation of mitigation measures to reduce significant or potentially significant impacts to less than significant levels. The applicant's reclamation plan to restore the site to native vegetation following completion of mining activities will be considered when evaluating impacts and incorporating mitigation measures. Direct and indirect impacts of the project will be considered, including any potential indirect impacts to biological resources downstream from the project site, as applicable (e.g. Salinas River). Effects of changes in hydrology on biological resources due to slope alteration and vegetation clearance will be considered in conjunction with the hydrological analysis to be prepared in the Hydrology, Water Quality, and Water Supply section as discussed below.
- Envicom Corporation will identify mitigation measures for each of the project's impacts. Mitigation will be based on a hierarchy of first avoidance, followed by minimization,

restoration, reduction and compensation. Any restoration and monitoring will include clear and measureable success and monitoring criteria.

Cultural Resources

The project site is within an area that is considered culturally sensitive due to historical occupation of the general area and physical features of the property. The site is relatively undisturbed (except for dirt roads) and is within the upper Salinas River Valley. The Salinas River, located to the south, is within 300 feet of the project site. The Obispeno Chumash and Salinan have historically occupied the Salinas River Valley. A Phase I Archaeological Survey (Heritage Discoveries, Inc., 2009) was conducted for the project on behalf of the applicant, which involved field investigations of the areas proposed for disturbance, as well as records search for known archaeological resource sites in the area. The investigation did not find archaeological resources sites within the proposed disturbance boundary. The records search found that archaeological resource sites are located near water sources in the area of the Salinas River Valley, but not within the proposed project area. The report suggests that no further investigation is warranted unless disturbances extend beyond the proposed mining boundary, and the no mitigation is necessary at this time. However, while no resources were found on-site during the investigation, given the historical occupation of the area and the proposed extensive surface and subsurface disturbance proposed, there remains the potential that resources could be unearthed. The Initial Study provides that the site is not sensitive for paleontological resources.

Our proposed scope of work includes:

- Conduct a third party review of the Heritage Discoveries, Inc. 2009 Archaeological Investigation Report for compliance with CEQA. Any discovered errors, omissions, and recommendations for additional investigations will be provided in a comments matrix and will be rectified in a letter-report as an addendum to the original study.
- Based on the third party review, conduct supplemental investigations/analysis to bring the document into compliance with CEQA, if necessary. The cost proposal for this task assumes relatively limited investigations are necessary.
- Incorporate concerns of the Native American Heritage Commission (NAHC) NOP letter dated July 13, 2010, including consultation with local Chumash representatives and a Sacred Lands File Check to ascertain whether there is knowledge of any cultural resources within the project boundaries. Consultation will include one letter to the NAHC and one mailing to each listed local tribe or individual and a follow-up phone conversation with each tribe or individual. Results of these items will be included in a letter report.
- Provide a formal reference/citation from a qualified Paleontologist, e.g. records search from the local Museum of Natural History, and/or review the County database to support the Initial Study conclusion regarding the lack of Paleontological Resources at the site. Results will be included in the letter report.
- Identify mitigation measures to avoid potential impacts to resources if present at the site. For example, a possible mitigation measure could include a field investigation prior to initiation of mining in each of the four phases and procedures to be followed in the event something is uncovered during the life of the mining operation.

Geology and Soils

The project site topography ranges from moderately sloping to steeply sloping with soil types (Cieneba-Andregg coarse sandy loams, Metz loamy sand and Xerofluvents-Riverwash association) that are moderately erosive. Potential geology impacts would include seismic shaking, landslides/slope stability, erosion, differential settlement, soil/stockpile stability, excavation characteristics, and other mining-related considerations. The following factors and related issues will be considered in the impacts evaluation:

- Slope geometry (steepness and height);
- Geotechnical and earthquake conditions;
- Topography and surface water flow patterns around and through the site;
- Depths to historical and anticipated high ground water levels;
- Presence of buildings, utilities, and surcharges in the vicinity of the slopes; and
- Examples of past slope performance and erosion.

The specific tasks include:

- Conduct an independent peer review and reconnaissance-level field verification of surface conditions provided in the *Engineering Geology Investigation* (GeoSolutions, Inc. July 14, 2009) prepared for the projects site.
- Collect and review other readily available geologic and geotechnical information associated with the area.
- Evaluate impacts for the site factors determined (e.g., those listed above).
- Develop feasible mitigation measures (and monitoring methods) to reduce all potentially significant impacts to less than significant.

Hydrology, Water Quality, and Water Supply

The project site is characterized by moderately steep to steep terrain, with a central east-west oriented valley that drains west to the Salinas River. Excavation would occur between the two ridgelines that bound this valley. The following factors and related issues will be considered in the impacts evaluation:

- Effects of mining, road construction, and infrastructure development (e.g., water tanks) on post-project storm runoff rates, directions, and volumes and the capacity of the proposed stormwater detention system to avoid local and off-site flooding;
- Effects of erosion from mining and internal/access road construction on post-project water quality of storm runoff (i.e., turbidity and suspended sediment) to local wetlands and stream channels, Moreno Creek and the Salinas River;
- Effects of mining and reclamation activities on the water quality of storm runoff to local wetlands and stream channels, Moreno Creek and the Salinas River, from factors other than erosion (e.g., temperature, dissolved oxygen) and pollutants (e.g., fertilizers, pesticides, oil and grease);
- Potential changes in the quantity and/or quality of groundwater recharge resulting from excavation into a currently undisturbed area, reclamation activities (fertilizers and pesticides), or wastewater disposal (nitrogen); and

- Potential changes in local surface water and groundwater flow directions and effects on water budgets for local wetlands, stream channels and riparian habitat.

A limited area in the southwestern portion of the site has been mapped by FEMA as within the 100-year flood zone of the Salinas River. As this area will not be disturbed by the proposed project, potential impacts are considered to be insignificant.

This analysis will include the following tasks:

- ***Perform background research and visit the project site***

We will review available regional and site-specific information (e.g., soils, geology, rainfall) on the hydrology and geology of the quarry area, including the project geology report and drainage calculations for stormwater management, geologic maps and agency publications (CA Division of Mines and Geology, USGS, etc.), and historic and contemporary aerial photography. We will perform a reconnaissance visit to the project site to observe existing conditions related to existing drainage patterns, stream channels, riparian and seasonal wetlands and existing roads. We will query local and regional agency staff (e.g., County and Regional Board) about the planned mining program and the approaches proposed for addressing potential hydrologic and water quality impacts, including assessments of impacts and efficacy of mitigation at the Santa Margarita quarry, as well as Cal Portland's Rocky Canyon quarry, also developed in similar materials.

- ***Regulatory setting***

We will identify and summarize the relevant regulations and guidance related to groundwater and surface water protection from mining activities, including stormwater quality and quantity management. These sources include federal and state regulations, such as the Clean Water Act, Porter-Cologne Act and Surface Mining and Reclamation Act (SMARA), and related permit programs administered by the Office of Mine Reclamation (e.g. SMARA), State Water Resources Control Board (NPDES permits for stormwater runoff and construction activities), Central Coast office of the Regional Water Quality Control Board (Basin Plan compliance; groundwater protection) and FEMA (flood control). County and regional guidance and ordinances provide the framework for management of stormwater and compliance with mandated water quality programs, including design and use of stormwater control facilities, conditioning discharges into receiving waters, and mandating protection of surface water and groundwater quality and quantities.

Mining is one of the 10 categories covered by the NPDES Industrial General Permit for stormwater discharges (1997), which is currently being revised (2005 draft). The project will also need to comply with the revised NPDES permit for Construction General Activities adopted in Sept. 2009 and effective July 1 of this year, including development of a Rain Event Action Plan (REAP) and a Storm Water Pollution Prevention Plan (SWPPP) to guide water quality protection during the construction and post-construction phases of the project.

- ***Rainfall-runoff analysis (runoff quantity, drainage system capacity and downstream flooding)***

We will review the project drainage report (Tartaglia Engineering, 2009) and calculations related to stormwater management. The Initial Study states that the mined slopes would be finished at 1.5:1, with 25-foot wide benches every 50 vertical feet. Slopes would be graded to drain back towards the hillside, where stormwater runoff (and sediment) would be retained, or directed through swales and ditches to basins for detention and/or infiltration. Graphics show two permanent detention basins would be constructed at the project outset and remain through site closure roughly 30 years later. One basin is located where the project access road joins Highway 58, and the other is near the mouth of the valley, downstream from the mining area. As mining proceeds from the center of the site to the north and northeast, a third detention basin would be constructed, then enlarged, to serve operations during mining phases 2A and 2B. When this area has been excavated, a new basin would be constructed further to the northwest, then enlarged as well, to capture runoff from the phase 3A, 3B and Final mining areas.

Control of drainage will be evaluated for consistency with local (San Luis Obispo County) and regional regulatory criteria for stormwater quantity management. We will evaluate the suitability of the proposed drainage system to control velocities, minimize downstream erosion and avoid contributions to flooding in the drainage network leading to the Salinas River, as well as the portion of the site draining to Moreno Creek. We will also assess the feasibility of measures proposed to maintain flows to preserve wetlands and stream channels.

We will use conventional methods to calculate the likely changes in peak flows resulting from mining as planned/phased. We will review the stormwater calculations and independently estimate the preliminary detention requirements for design storms, such as the 100-year recurrence interval event. We will assess the need for additional measures to maintain or reduce peak flows from the design storms and avoid flooding downstream. If appropriate, we will recommend additional measures that could be installed or implemented to mitigate potential construction-period and post-construction impacts on peak flows.

- ***Water quality (surface runoff)***

According to the Initial Study, the shallow topsoil would be stripped and reserved for reclamation, leaving barren bedrock slopes with low risk of erosion. As described above, stormwater runoff would be routed to detention basins to control peak flows and retain sediment. During this stage (active mining), the primary risk of erosion would be from stockpiled topsoil, spoils and mined materials. Guidance for effective protection of these stockpiles are contained in the portions of the County's Land Use Ordinance addressing sedimentation and erosion control, and in the NPDES Construction and Industrial General permits. The project will be required to prepare an Erosion and Sediment Control Plan, a SWPPP and other stormwater management documents required by the County and Regional Board.

Other than sediment, the primary constituents of potential concern in runoff from the quarry would be chemical contaminants, such as petroleum products (fuel; lubricants) from mining and processing equipment and from operation of the asphalt and concrete

recycling plants. If untreated, runoff from the site could degrade water quality in downstream wetlands, Moreno Creek, and the Salinas River.

We will characterize the pollutants of concern under existing conditions (undisturbed lands with dirt roads) and following quarry development and expansion. We will review available monitoring data from runoff water quality sampling at the Hanson Aggregate granite quarry just northwest of the project site. We will also review the project site designs and engineering reports for consistency with regulatory criteria and suitability of water quality treatment measures proposed to avoid off-site impacts. Where applicable, we will identify additional opportunities and constraints that bracket selection of BMPs and recommend further measures that are appropriate for the project.

- ***Groundwater recharge (volumes and flow directions)***

The extent of existing groundwater recharge on the currently undisturbed project site is unknown but development of a quarry could lead to changes in the quantity (volume) of groundwater recharge and/or modify groundwater flow paths. This could potentially reduce recharge to the local aquifer and the Salinas River, affecting the local water supply, as well as hydrologic support for downgradient wetlands and stream channels. As currently proposed, some portion of the runoff from operating portions of the quarry would be routed to detention basins in other areas of the site, where some fraction would be retained and potentially infiltrated with the remainder released downstream. Our hydrogeologic analysis will consider data from local wells, geology reports and measurements and observations from our reconnaissance visit, in conjunction with the applicant's site plan and drainage study, to assess potential project impacts on groundwater recharge and evaluate the likelihood of infiltration from the proposed detention basin sites. If appropriate, we will recommend additional mitigation measures to maintain pre-development volumes and quality of recharge.

- ***Hydrologic support for wetlands and stream channels (groundwater and surface water)***

Either re-directing surface runoff or lowering groundwater levels significantly could reduce hydrologic support to local wetlands, such as the existing vernal swales, or the riparian wetlands and stream channels draining the un-mined portions of the central valley and/or south-facing slopes north of Highway 58. Changes to the amount or timing of flows would result in modified water budgets and potential adverse effects on habitat and resource quality. In this task, we will use the water balance approach to examine how the proposed operation might modify the amount of recharge reaching local features and, if appropriate, identify suitable mitigation measures to retain hydrologic support and avoid or minimize potential impacts as mining proceeds. Historic aerial photography will be reviewed to better understand wetland and riparian response to periods of wet and dry years. Water budgets will be prepared for wet, normal, dry, and (if necessary) critically-dry years.

- ***Ground water recharge (quality)***

Potential impacts on groundwater quality originate from two sources: mining operations and operation of the on-site septic system for wastewater disposal.

All of the constituents present in surface runoff from the site, except sediment, could potentially infiltrate and contribute to pollution of local groundwater. Changes in the *quantity* of local recharge will be assessed in the above tasks through review of local geologic and hydrogeologic conditions, field reconnaissance, aerial photography and water budgeting. Using this information, we will evaluate the potential for mobilization of some or all of these pollutants into groundwater and recommend additional mitigation measures, if needed, suitable for maintaining water quality of recharge to the local aquifer.

While the Agricultural Resource section of the Initial Study describes local soils as generally shallow (depth to bedrock), steeply sloped and potentially constrained by drainage or flooding, the Wastewater section concludes that there are areas of the site where an existing wastewater system could be expanded or a new one constructed to meet the criteria in the County's Land Use Ordinance with respect to soil depth, percolation rates, slope, depth above seasonally-high groundwater, and distance from 100-year flood zones, stream channels and wells. We will review the septic system proposed for project use for consistency with local plumbing codes, the Land Use Ordinance, and other regulatory guidance. Based on the location, design, proposed loading and the local hydrogeologic setting (soils, geology, rainfall recharge, aquifer characteristics), we will assess potential risk of impacts from system failure (daylighting effluent), short-circuiting (via bedrock fractures), and nitrogen loading to the aquifer (methemoglobinemia or "blue baby" disease). If appropriate, we will recommend additional mitigation measures for wastewater disposal to avoid these impacts and maintain the quality of groundwater.

Hazards

This section will discuss the potential project impacts associated with fire, dam inundation and blasting hazards. Water quality issues related to the storage and use of hazardous chemicals and the Storm Water Pollution Prevention Plan (SWPPP) will be addressed in the Hydrology, Water Quality and Water Supply section, as described above.

Fire Hazards

The project site is within a Very High Fire Hazard Severity Zone, and is subject to wildland fires. The steep terrain, flammable vegetation (e.g. chaparral, coast live oak woodland, foothill woodland, sage scrub and annual grassland), potential for high winds, dry seasons and remote location are all contributing factors to the fire safety of the project site. County Parkhill Station No. 40 would service the site, and it is anticipated that the response time would be between 5 and 10 minutes. Although the project would not introduce habitable structures into the Zone or impede an evacuation plan and would be subject to the Fire Code, there is a potential that the project could increase the likelihood of a fire in the area. Per County Fire Department Review (letter dated July 9, 2010), in addition to compliance with California Fire Code, California Building Code, and Public Resources Code pertaining to fire protection, there are specific measures that should be included in the project to minimize the potential for fire hazards. The EIR analysis will include a discussion of the project site and surroundings as they pertain to fire hazards, such as vegetation, slopes, climate and fire history. Components of the project that have the potential to spark wildfires will be identified. We will incorporate concerns and mitigation provided in the County Fire Department response to the NOP letter dated July 9, 2010.

Dam Inundation Zone

The Salinas River is located 0.25 mile southwest of the proposed mining area. The project site is within the Salinas River/Santa Margarita Reservoir Dam Inundation Zone (i.e., within 500 feet of the Salinas River centerline), and as such, could be affected should there be a catastrophic failure of an upstream dam causing hazardous floodwaters at the project site. Our review will include evaluation of sedimentation within and upstream of the reservoir based on Glysson's classic USGS report (1977) and subsequent updates of sediment-prism growth by the San Luis Obispo County Public Works Department. The EIR will include a review of the inundation maps prepared for the Division of Safety of Dams (DSOD) in conjunction with the site plan, a discussion of applicable regulations, and identification of potential impacts. Mitigation will be developed, if needed, to ensure safety of mine employees and in accordance with State Office of Emergency Services.

Blasting

In instances where blasting is necessary to loosen consolidate aggregate, blasting would include drilling into the aggregate material and placing of explosives within the drilled holes before they are detonated. A California Licensed Blaster would conduct the blasting activity. The applicant's General Blast Plan and Vibration Predictions Pan (Gasch & Associates, December 8, 2009) provides details for carrying out the blasting program. The Gasch & Associates report will be incorporated into the analysis to evaluate the potential safety effects on the project employees and neighboring properties. Recommendations for the Blasting activities will consider:

- Controlled blasting techniques
- Site inspections
- Safety meetings
- Loading of explosives
- Hours of blasting activity
- Drilling operations
- Post blast safety procedures
- Pre-blast notification and survey
- Blasting safety plan
- Blasting Site security
- Safety requirements for ignition systems
- Safety blasting site preparation
- Blast warning signs/signals
- Safe blasting procedures in accordance with regulatory agencies

Noise

The two main noise sources in the immediate project vicinity include Highway 58 traffic and the Hansen Aggregate Quarry to the northwest. The project would add on- and off-site noise sources to the open space/agricultural setting of the project area and roadways through the residential community of Santa Margarita. These sources include heavy equipment operation and truck traffic. Equipment operations would include the use of a wheel loader, hydraulic

excavator and/or bulldozer, and a screening and crushing plant to extract and process granite. Trucks would enter the site from Calf Canyon Highway (Highway 58) and would be loaded with a front-end loader before being weighed and exiting back onto Calf Canyon Highway. The large majority of traffic would travel south on Calf Canyon Highway to Highway 101. This route would involve truck trips through the community of Santa Margarita. Residential uses occur along the proposed truck route near the project site entrance (Calf Canyon Highway) and in greater densities in the Santa Margarita community aligning the El Camino Real stretch of Highway 58. Operations on-site would increase ambient noise levels in the area of the mining potentially causing impacts to sensitive receptors in the vicinity of the project site, as well as truck traffic noise along the haul routes.

According to the project description, operations would occur during daytime hours between 6:00 a.m. to 5:00 p.m. Monday through Friday with up to 198 one-way truck trips per day and 10 employee trips.

The nearest residential unit is located approximately 300 feet southeast of the mine's extraction area near the entrance of the site. This residence is within the project boundaries and is associated with the proposed operations. The closest residence outside the project site is located approximately 1,699 feet away. The existing noise study (Dubbink, 2010) found that daytime noise from the project could exceed 50 dB standards for nearby residences. Blasting would exceed County standards for impulsive noise. Residential uses are also located along the proposed haul route. The impacts of the proposed project upon ambient noise levels experienced by sensitive receptors due to long-term operation of the project (30 years) will be evaluated in the EIR.

The noise analysis will include an assessment of the noise environment in terms of existing noise levels as well as the locations of the nearest noise-sensitive receptors. The impact analysis will assess whether the mining operation and trucking levels would result in significant impacts on these receptors. This study will involve the following tasks:

- Conduct a third party review of the applicant prepared noise analysis, Noise Analysis Las Pilitas Rock Quarry (David Dubbink Associates, January 26, 2010).
- Develop a baseline truck traffic noise exposure profile in terms of the CNEL noise metric using the FHWA Model with the latest California vehicle noise curves (CALVENO) based upon project truck traffic volumes.
- Evaluate long-term noise exposure (i.e. 30 years) from material extraction, processing and hauling associated both with trucking activity and operation of heavy equipment.
- Evaluate the Blasting Plan and Vibration Predictions provided in the Gasch & Associates, December 8, 2009 report in accordance with the Bureau of Mines regulations.
- Determine if any additional analysis is needed to assess special noise issues such as back-up alarms, blasting, and recycled concrete and asphalt crushing.
- Relate project noise impacts to the Noise Element noise/land use compatibility guidelines in the San Luis Obispo County General Plan Noise Element and the County Land Use Ordinance (County, 2008) and other applicable noise exposure regulations.

- Include, revise and/or supplement the mitigation measures provided in the Noise Analysis as necessary to reduce potentially significant noise impacts to less than significant levels.

Energy

The project will consume energy as a result of heavy earthmoving equipment such as a wheel loader, hydraulic excavator and/or bulldozer, and front-end loader. Recycling operations will utilize portable crushing and screening equipment. In addition, truck traffic will consume fuel for the delivery of mined products in the market place, generating 198 truck trips per day. Envicom will evaluate the project in light of CEQA Appendix F: Energy Conservation and in conjunction with the Air Quality analysis. The scope of the Energy analysis will consider the following:

- Detail of energy consuming equipment that would be required for the project.
- Estimate energy requirements of the project based on fuel type.
- Identify energy supplies and the project impacts on those resources.
- Mitigation will be developed as necessary and feasible to reduce wasteful inefficient energy consumption.

Recreation

Since the proposed project is not expected to generate a substantial need for local housing, it is not expected to create a significant need for additional parks, natural areas or other recreational resources based from an increased demand. However, since the Salinas River Trail, a public trail, courses through the southwest corner of the project site, the mining plan and operations will be evaluated to determine whether they would affect the trail alignment. Recreation analysis would include the following:

- Consult with the County Parks Department to determine whether the alignment would be affected by the proposed mining operations, including the access road.
- Assess view corridors from the trail that could be affected by mining operations.
- Develop mitigation to ensure that trail alignment impacts, if any, are minimized.

Transportation/Circulation

The proposed project is located immediately north of State Highway 58 (Calf Canyon Highway) and would provide a single access point located east of the Salinas River Bridge and west of Park Hill Road, between two existing residential homes. The applicant is proposing to construct a left turn lane for the eastbound traffic turning into the project entrance. Trip generation would include 198 one-way truck trips and 10 employee trips per day when operating at maximum capacity, i.e. 500,000 tons per day. It is anticipated that the majority of trips would travel between the project site and Highway 101 (the main north-south corridor), as most of the market area would be south of Santa Margarita. A traffic impact study was prepared on behalf of the applicant by TPG Consulting, Inc. (May 2009). The study indicates that the majority of truck traffic would use Highway 58, traveling through the residential community of Santa Margarita. The study provides an analysis of several intersections along the proposed haul route, but does not analyze the El Camino Real portion of Highway 58 and Highway 101 intersection. In

addition, there is a railroad crossing leading up to this intersection, which is of concern to the California Public Utilities Commission (PUC).

This section of the EIR will assess the potential for traffic congestion, level of service at specified intersections, site distance, and road wear impacts. We will peer review the applicant's traffic study, use the data and analysis in this report to the extent possible, and supplement this analysis as necessary to support the EIR analyses. We understand that the County has explored some alternative truck route alternatives, such as, utilizing a route through the nearby Hansen Aggregate mine and will review this alternative in order to present an assessment of its feasibility in the EIR. Associated Transportation Engineers (ATE) will provide a traffic study upon which the EIR analysis will be based. The ATE traffic study will include the following:

- ATE staff will attend the project kick-off meeting to confirm additional traffic analysis parameters and locations of key intersections and roadway segments, availability of traffic counts, and project trip generations and distribution parameters.
- Peer review of the applicant's traffic studies, *Las Pilitas Rock Quarry Traffic Impact Study* (TPG Consulting, Inc., May 2009) and the *Sight Distance Evaluation* (TPG Consulting, Inc. June 8, 2009).
- Conduct field investigation to observe and report on the existing conditions and geometries of the road system that would be utilized by the project traffic.
- Analyze the project's potential impacts to the UPRR Rail crossing to address the PUC's NOP comment letter, dated August 9, 2010.
- Perform impact analysis for additional intersections and roadway segments identified in consultation with the County. This proposal assumes three to five additional intersections and four roadway segments.
- Issues to be addressed will include baseline traffic volumes, project trip generation, project trip distribution assumptions, levels of service, signal warrant evaluation, and project mitigation measures and cumulative impact and mitigation analysis. Possible methods for determining street maintenance responsibility could be discussed.
- Discuss other issues related to the project's truck trip generation, including roadway suitability (geometries), safety, and maintenance.
- Provide analysis of alternatives, which may include an alternative truck route and/or alternative operations to be identified by the project team during the course of the EIR work effort. Alternatives will be developed for analysis in the EIR alternatives section. Due to the limited number of routes serving this area, the evaluations may be narratives of the flaws and/or effects of using alternative routes.

VI. COST ESTIMATE

The cost for the scope of work identified in this proposal is provided in **Table 1** and has been prepared in accordance with Envicom Corporation's 2010 professional fee schedule (attached following Table 1). The total cost for the EIR is **\$194,570.80**. This cost is based upon the following set of assumptions:

- The project description does not substantially change subsequent to initiating the Administrative Draft EIR.
- Reproduction costs are limited to the number of copies specified in the RFP.
- A total of 100 hours for Response to Comments have been included in our estimate. Upon completion of the public review period, we will review the comments received in cooperation with the County and determine whether this level of effort, along with the level of effort budgeted for other FEIR tasks, is sufficient.
- Costs may be shifted among line items as necessary.
- Additional work beyond tasks included herein would be subject to mutual agreement of scope and costs.
- Travel time to meetings will only be billed for one direction of travel.
- This cost proposal is valid for 60 days.

PROFESSIONAL FEE SCHEDULE
January 1, 2010

Envicom Professional Fee Schedule applies to the following services:

- **Environmental Studies (CEQA/NEPA)**
- **Environmental Constraints Analyses**
- **Site Planning/Design**
- **Development Entitlements**
- **Biological Resource Studies/Tree Surveys**
- **ACOE/CDFG Jurisdictional Studies**
- **Trustee Agency Permit Procurement**
- **Habitat Restoration Plans**
- **Litigation Support**
- **Expert Witness Testimony**

PERSONNEL

Principal I	\$250.00
Principal II	\$170.00
Director	\$150.00
Associate	\$130.00
Senior Analyst	\$90.00-\$115.00
Environmental Analyst/Staff Scientist	\$75.00-\$95.00
GIS /Mapping	\$90.00
Project Assistant/Production Specialist	\$60.00-\$75.00
Intern	\$50.00

Expert Witness testimony: One and one half times above listed rates (including depositions).

PROJECT-RELATED EXPENSES:

A **communication fee** of three percent (3%) of total labor billings will be charged for in-house costs for phone, fax, e-mail, postage, personal computer use, interim working copy reproductions and records maintenance/retention. **Travel expenses** (hotels, meals, rental vehicles, etc.) are charged at cost plus fifteen percent (15%). Per Diem charge for subsistence may be negotiated in lieu of actual direct expenses for hotels/meals. **Printing/Reproduction** rates for black and white copies will be charged at \$0.15 per page and in-house color copies at \$2.40 per 8-1/2x11 and \$2.85 per 11x17 copy. Oversized copies and plots will be as quoted. **Personal vehicle** use will be at current IRS rate (currently \$0.55 per mile). **Out of pocket direct expenses** identifiable to an assignment will be charged at cost plus fifteen percent (15%). **Subcontractors and sub-consultants** services billed at cost plus 15 percent (15%).

EQUIPMENT RATES

Envicom Corporation charges for consumable field materials and specialized equipment.

General Field Consumables (Stakes, Flagging, Plant and Tree Tags)	\$20.00/day
Field Animal Traps	\$35.00/day
Trimble GeoXT GPS	\$65.00/day
4 x 4 Trucks	\$25.00/hour

PAYMENT

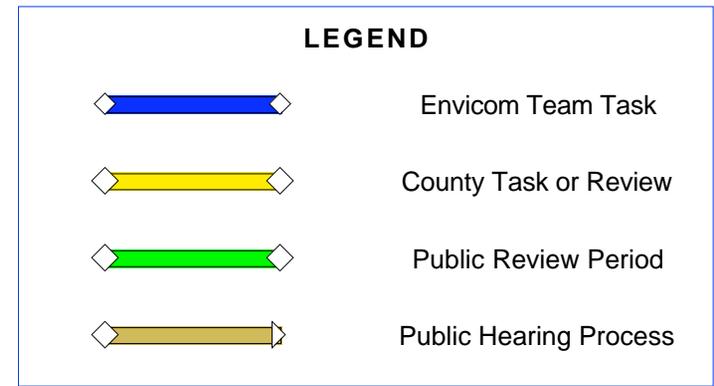
Envicom Corporation invoices are submitted monthly and payment is due on or before the twenty-fifth (25th) day following the date of the invoice. Delays in timely payment of invoices are subject to interest at one and one-half percent (1 ½%) per month and may result in delay of work products.

VII. SCHEDULE

Our proposed schedule is shown in **Figure 3**. The schedule indicates delivery of the ADEIR within 16 weeks of the kickoff meeting. This schedule assumes that all project description materials are available at the outset and that the project description does not change once the impact analyses are underway. The overall time frame for the EIR process would be within approximately 12 months. It is noted however, that this schedule is based on assumptions that have been made with respect to County review periods that are beyond our direct control.

Oster (Las Pilitas Quarry) CUP and Reclamation Plan EIR Schedule

	Activity Name	Start Date	Finish Date	Duration (Work Weeks)	2010				2011									
					Sept	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sept	
1	Kick-Off Meeting	9/20/10			▲													
2	Project Description/EIR Outline	9/20/10	10/4/10	2.20	◆	◆												
3	Administrative Draft EIR	10/4/10	1/21/11	16.00	◆	◆				◆								
4	County Review	1/24/11	2/18/11	4.00					◆	◆								
5	Draft EIR (includes a Screencheck Draft)	2/21/11	3/18/11	4.00						◆	◆							
6	DEIR Public Review Period	3/21/11	5/4/11	6.60							◆	◆						
7	Administrative Final EIR	5/5/11	6/1/11	4.00								◆	◆					
8	County Review	6/2/11	6/15/11	2.00									◆	◆				
9	Final EIR (includes a Screencheck Draft)	6/16/11	7/13/11	4.00										◆	◆			
10	Findings and Statement of Overriding Considerations	7/14/11	7/27/11	2.00											◆	◆		
11	Public Hearing Process	7/28/11	9/21/11	8.00												◆	◆	
12			2/23/10														◆	◆
				Tot: 52.80	Sept	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sept	



Appendix A

Resumes and Subconsultant Qualifications



Joseph G. Johns
President

Mr. Johns serves as President and Chief Executive Officer of Envicom Corporation, a professional services consulting firm specializing in CEQA/NEPA Reporting, Land Use Suitability Analyses, Development Entitlements, Biological Studies, and Ecological Restoration Plans. Prior to founding Envicom Corporation, Mr. Johns' served in principal level positions with two prominent, California-based earth sciences consulting firms.

Mr. Johns' professional experience includes researcher/author of federal and State NEPA and CEQA documents, community general plans, specific plans, redevelopment/revitalization plans, feasibility and development siting studies, resource-based environmental constraint studies, and land use entitlements.

Previous professional work has included mining engineering and assessment of ore reserves, railway engineer and surveyor, pipeline transportation corridor surveying; engineering design for transportation networks and support facilities, and engineering inspection related to construction of transportation, communication and industrial railway facilities.

Mr. Johns holds a Bachelor of Science degree in Geology from Arizona State University and certification in Environmental Planning from the University of Southern California. Mr. Johns has been an adjunct professor at Pepperdine University's School of Public Policy since 2005, instructing in the Masters of Public Policy program. Mr. Johns also served as Environmental Analysis Curriculum Chairman for the University of California, Los Angeles, School of Arts Extension program in 1979-80 and also taught an accredited course under the University's Extension program.

Mr. Johns has qualified as an expert in Los Angeles, Orange, Ventura, San Diego, San Bernardino, San Luis Obispo, and Santa Barbara Counties, as well as in the U.S. Court of Federal Claims and courts in several states outside California. He has qualified as an expert witness in land planning, community planning, environmental planning, real estate and entitlement advisor to land/developers, CEQA/NEPA reporting, Highest and Best (HBU) determination and "damages assessments" in eminent domain litigation. Cases in which Mr. Johns has participated as a designated expert witness include:

LAUSD v. Meruelo Maddox Properties, et al. 2008

Case involved a taking by LAUSD of real property located in the historic Taylor Yard district of the City of Los Angeles for purposes of the construction of a new high school. Valuation issues were complicated by a multitude of adverse environmental conditions stemming from historic uses of the "take" parcel as well as adverse impacts from surrounding land uses, metro-rail and freeways.

Southern Pacific Transportation Company v. Santa Fe Pipelines, Inc., 2003

Case involved the determination of a "fair market" rent for 1,871 miles of Santa Fe, Pacific Pipeline, Inc. and Santa Fe RR pipeline easements within Union Pacific's Railway Rights of Way

People v. San Antonio Lakes Partners, et Al., 2002.

Case involved a partial taking by Caltrans of temporary and permanent easements for rights of way for the construction of Highway 30 within the County of San Bernardino.



Southern Pacific Transportation Company v. Santa Fe Pipelines, Inc., 2003

Case involved determination of a fair market rent for 1,871 miles of Santa Fe Pacific Pipeline, Inc. and Santa Fe pipeline easements within Union Pacific's Right of Way.

Concerned Citizens of Bell Air v. Board of Public Works, City of Los Angeles, (Broidy), 2001

Challenge to CEQA process related to entitlements for construction of single family home located in Bel Air. Issues concerned impact to waters of the U.S., loss of oak woodland, wildlife habitat and aesthetics.

County of Los Angeles v. Mission Peak et al., 2001

Taking of private property for purposes of mitigation in support of County approvals to expand the Sunshine Canyon landfill.

City of Burbank and Burbank Redevelopment Agency v. Burbank-Glendale-Pasadena Airport Authority, 1999

Key issues concerned applicability of the City's Zoning Ordinance to size, location and access of new terminal project proposed by Airport authority.

San Luis Obispo County Chumash Council v. Rob Rossi (Santa Margarita Ranch), 1999

Challenge to expansion of agricultural and farming operations as regards potential adverse impacts to historical and cultural resources.

County of San Bernardino v. Richland Pinehurst, L.P. et al., 1999

Taking of permanent and temporary easements by Caltrans (Sanbag) for widening and construction of State Route 71 through the County of San Bernardino and the City of Chino Hills.

State of California v. Oster, et al, 1998

Taking of permanent and temporary linear easement for pipeline right-of-way for construction and operation of State Water Project Coastal Branch 54" water pipeline.

State of California v. Blue Sky Ranch, 1998

Taking of permanent pipeline right-of-way easement for construction and operation of State Water Project Coastal Branch 54" water pipeline.

Forest Properties, Inc. v. Army Corps of Engineers (ACOE), 1996

Inverse condemnation involving denial of 404 permit by Army Corps to fill 9 acres of Big Bear Lake (California) for residential purposes. The "water dependency" test was a key issue along with adverse impacts to golden eagle nesting sites.

Southern Pacific Transportation Company v. Santa Fe Pacific Pipeline Corporation, 1996

Characterization of 1, 800 miles of pipeline corridor located within railroad rights-of-way for purposes of establishing a current valuation of the transportation corridor. At issue was the use of substitution or replication methods for valuation applied to a similarly located transportation corridors from Texas to Oregon.

Village Properties v. Santa Monica Mountains Conservancy, et al., 1995

Adequacy "review" of completed Village Properties Project EIR and determination of impacts from previously unknown rare plant on the proposed development site plan.

State of California v. Santa Margarita Limited, 1995

Taking of permanent and temporary linear easements for pipeline right-of-way and maintenance roadways for construction and operation of the State Water Project Coastal Branch 54" water pipeline.

Allan R. Hoffman et al. v. City of Creve Couer, 1995

Appropriateness of City's zoning code for single-family development on 40-acre parcel constrained by adjacent office/commercial uses and environmental factors including possible adverse health effects associated with overhead power line.

Lynwood Unified School District v. Southern California Association of Seventh-Day Adventists, et al., 1992

Partial taking of a 30-acre Seventh-Day Adventist school and church/parking complex by the Lynwood Unified School District for the purposes of demolishing property improvements and constructing a 4,000-student public high school facility.

Gurrola v. Calleguas Municipal Water District, 1991

Partial taking by Calleguas MWD of Gurrola Family property in Ventura County for purposes of expansion and construction of upgraded water treatment facility.

State of California v. Chevron Oil Company, 1988

Taking by Chevron Oil Company of 100' wide pipeline corridor through Gaviota State Park for underground transmission of highly toxic H₂S (sour) gas from offshore platforms to nearby onshore refinery facility.

State of California v. Vista Del Mar School District, 1988

Taking (partial) of 21 acres of Gaviota State Park in Santa Barbara County for purposes of constructing a K-8 school and community center facility.

City of Ojai v. Ojai Investments, 1987

Litigation under Government Code and CEQA with respect to "deemed approved" statutes on a 31-acre commercial and residential property located in the City of Ojai.

San Diego Gas & Electric Company v. Old Stage Ranch, et al., 1986

Taking of 200' wide corridor for 500 kV overhead transmission line across Old Stage Ranch located in northern San Diego County.

San Diego Gas & Electric Company v. Donald L. Daley, et al., 1985

Taking of a 200' wide corridor extending 2.3 miles in length (55.7 acres), across 9,500 acre Daley Ranch located in Jamul (San Diego County) by San Diego Gas & Electric, for the purpose of constructing and operating 500 kV overhead transmission line.

San Diego Gas & Electric Company v. Otay Mesa (Kuebler Ranch), 1985

Taking of 48 acres of the 3,250-acre Kuebler Ranch located in San Diego County for purposes of constructing and operating a 230 kV overhead transmission line.

Los Angeles County Sanitation District v. Lester (Bob) T. Hope, 1985

Taking of 89 acres of a 300-acre holding in Calabasas area for purposes of constructing a haul road to serve the Lost Hills Calabasas Landfill.

San Diego Gas & Electric Company v. Union Oil Company, 1984

Taking of 177 acres in fee and 20 acres as a temporary easement for 500 kV and 230 kV overhead transmission lines through the 2,800-acre Bonita Miguel Ranch in San Diego



Las Virgenes Water District v. Lester (Bob) T. Hope, 1983

Taking by Las Virgenes Water District of 260 acres of a 985-acre holding along Malibu Road in Calabasas (L.A. County) for purposes of sewage (sludge) spreading grounds from the Tapia Reclamation Plant and future construction of holding tanks and related pipeline system.

Otay Municipal Water District v. Union Oil Company, 1981

Taking by Otay Municipal Water District of 435 acres of the 3,200-acre Bonita Miguel Ranch located in San Diego County for the purpose of constructing effluent retention basins.

Invited presentations/publications in which Mr. Johns has participated include:

- “Demonstrative Evidence Graphics, What Works, What Doesn’t,” address before the Appraisal Institute, Annual Litigation Seminar, 1997
- “Using Environmental Factors in Appraisals and Expert Testimony,” address before International Right-of-Way Association, Orange County Chapter No. 67, 1997
- “The Hazards of Planning around Electric and Magnetic Fields,” The Dispatch of the Los Angeles Section of APA 21, no. 3, April 1991.
- Co-author Real Estate Law Journal, “Electromagnetic Radiation: A Case for Relevance in Real Estate Transactions and Eminent Domain,” Fall 1991.
- Guest lecture, “The Environmental consultant,” University of California, Santa Barbara, Environmental Impact Analysis (ES/ES 165A, 1986.
- Speaker/elevator at the “Environmental Planning forum,” University of California, Northridge Master Degree Program in Environmental Studies, the Consortium of the California State University, Academic Program Office, 1986.
- “Consultant Selection and Client Liaison,” address before the Association of Environmental Professionals, Annual Meeting at Asilomar, California, 1980.
- “Environmental Profession Business Practices,” address before the Association of Environmental Professionals, Annual Meeting at Cal Poly Pomona, California, 1979.
- “Making the EIR Work for the Decision Maker,” presentation as a University Seminar to public and private decision-makers, University of California Extension at Irvine, Santa Ana, California, 1977.
- “Preparation of an Environmental Data Base. “ address before the Association of Environmental Professional, Annual Meeting, Inglewood, California), 1976.
- “Data Base and Cumulative Effects Projection and Monitoring,” address before the Association of Environmental Professionals, Annual Meeting, Inglewood, California), 1976.
- Guest Interview, “Southern California Earthquakes,” Ralph Story’s AM Television Program, ABC Broadcast Studios (Burbank, California), 1975.
- “Earthquake Hazards and Real Estate Appraisal,” address before the Real Estate Appraisal Institute (Los Angeles, California), 1975.
- “Some Concerns Regarding Preparation of Environmental Impact Documents,” presentation to the League of California Cities Planning Commissioner’s Institute (Palm Springs, California), 1974.



Primo Tapia III

Vice President, Officer of the Corporation

Mr. Tapia has extensive experience in the analysis of environmental constraints, CEQA compliance, development impact assessment, resource entitlement and permitting and construction monitoring. He has successfully coordinated the acquisition of resource permits from trustee agencies; such as Streambed Alteration agreements and Incidental Take permits from the California Department of Fish and Game and Section 404 permits from the Army Corps of Engineers. Mr. Tapia is also experienced coordinating and managing large-scale permit compliance monitoring projects such as that undertaken for the Qwest Communications Fiber Optic Cable Installation Project. Mr. Tapia managed the preparation of Operation, Emergency, and Fire Prevention Plans as well as Environmental Assessment documents for the installation of fiber optic cables, and pull boxes within 19 miles of federally held land. Mr. Tapia supervised all environmental and archaeological monitoring activities during construction and directed a team whose primary responsibility was to insure contractor compliance with numerous Angeles National Forest Special Use Permit conditions intended to minimize potential impacts to forest resources.

His background also includes specialized view analysis and post-project imaging, and other cartographic endeavors. Mr. Tapia's work on the impact analysis for the Sunset Millennium project allowed the decision-makers to understand complex view issues and consistency issues with the Master EIR for the Specific Plan on which the project documentation tiered. Other relevant projects in which Mr. Tapia held a key role in management and/or analysis were the 2000 Avenue of the Stars office project in Century City, the Pepperdine University Campus Life Project EIR, and the Azusa General Plan Update.

In the Angeles National Forest in Northern Los Angeles County, Mr. Tapia managed the Qwest Communications Fiber Optic Cable Installation Project. Mr. Tapia managed the preparation of Operation, Emergency, and Fire Prevention Plans as well as Environmental Assessment documents for the installation of fiber optic cables, and pull boxes within 19 miles of Federally held lands. Mr. Tapia supervised all environmental and archaeological monitoring activities during construction. He directed a team whose primary responsibility was to insure contractor compliance with numerous ANF Special Use Permit stipulations intended to minimize potential impacts to forest resources. The subject of stipulations ranged from speed limits, disturbance limits, weather monitoring, fire prevention, circulation, vehicle and equipment weight limits, and cultural resource protections

Mr. Tapia managed the preparation of an Environmental Impact Report for the 2000 Avenue of the Stars Project. The project proposed to revitalize the old ABC Entertainment Center by removing two existing structures and constructing a single mid-rise office building and three-acre landscaped plaza.

Mr. Tapia's other relevant assignments include significant contributions to:

Institutional expansion projects

- Pepperdine University Campus Life Project EIR
- Amendments to the Pepperdine University Long Range Development Plan
- Pepperdine University Graduate Campus Development EIR



Mr. Tapia managed the preparation of an Environmental Impact Report for the 2000 Avenue of the Stars Project. The project proposed to revitalize the old ABC Entertainment Center by removing two existing structures and constructing a single mid-rise office building and three-acre landscaped plaza.

Mr. Tapia's other relevant assignments include significant contributions to:

Institutional expansion projects

- Amendments to the Pepperdine University Long Range Development Plan
- Pepperdine University Graduate Campus Development EIR
- Soka University Malibu Campus Expansion EIR
- Claremont Colleges Keck Institute EIR

Utility and transportation eminent domain valuation

- Southern Pacific Transportation Company v. Santa Fe Rail Road
- Southern California Gas Company v. Santa Fe Railroad
- Southern Pacific Transportation Company v. Shell Oil Company
- State of California v. Woodson
- State of California v. Anaheim Foursquare Church
- Metropolitan Transit Authority v. Thai et al

Private development projects

- Lost Canyons Golf Course EIR, City of Simi Valley;
- Deerlake Ranch Habitat Restoration Implementation and Monitoring, City of Los Angeles
- Heritage Valley Parks Project Construction Mitigation Compliance, City of Fillmore
- Butcher Mountain EIR, City of Torrance;
- Dairy Creek Golf Course EIR; City of San Luis Obispo
- Valley Gateway Development Application, City of Santa Clarita

Mr. Tapia has prepared refined materials for public hearing presentations with Federal, State, Regional, and Local agencies having jurisdiction over projects (including but not limited to the California Coastal Commission, California Public Utilities Commission, and Regional Water Quality Control Board).

Mr. Tapia received a Bachelor of Arts Degree in Geography and is a member of the Association of Environmental Professionals.



Travis C. Cullen, LEED AP
Chief Operations Officer

Mr. Cullen serves as the Chief Operating Officer of Envicom Corporation. During his tenure with Envicom Corporation, Mr. Cullen has provided a variety of environmental consulting services to both public and private clients including due diligence, technical studies, constraints analyses, site planning and entitlement strategy, preparation/management of CEQA documents, mitigation plans and litigation/expert witness testimony support. He has also processed Trustee Agency Permits including USFWS Section 7 Consultation, California Coastal Commission Coastal Development Permits, CDFG Streambed Alteration Agreements, 2081 Take Permits, ACOE 404 permits, RWQCB 401 Water Quality Certifications and Water Discharge Requirement Permits, and conducting monitoring and reporting compliance. Project's worked on have been in both rural and urban locals for a range of uses including residential, commercial, industrial, medical, mixed-use, institutional, recreational, public infrastructure, and conservation/restoration. His experience with a variety of project types at various stages of the planning, entitlement, and construction processes provides a thorough understanding of the individual environmental issues, direct and indirect impacts, and feasibility/effectiveness of mitigation measures.

Specific examples of Mr. Cullen's experience include the Conrad N. Hilton Foundations Headquarters Campus (seeking LEED Platinum)(Agoura Hills), 2000 Avenue of the Stars EIR (City of Los Angeles), Oceana Retirement Facility/Holiday Harbor Courts EIR (Los Angeles County), Sherwood Development Company Tract 4192 Residential Development and Golf Course (Ventura County), Santa Susana Field Laboratory Radiological Survey of Area IV (USEPA), LAACO Topanga Property Site Evaluation Los Angeles County, Hearst Ranch Environmental Database Update (San Luis Obispo County), Pepperdine University GCP Environmental Impact Report (Los Angeles County), El Rancho Alegre Restoration of the Arroyo Simi, Debs Park Master Plan (City of Los Angeles), FedEx Valuation of Damages (City of Los Angeles), Malibu Terrace Pump Station MND (City of Calabasas), the Sierra Lakes Elementary School MND (City of Fontana), Fontana High School Site #4 MND (City of Fontana), and the Cucamonga Cornerpointe Residential Expansion (City of Rancho Cucamonga).

Mr. Cullen's experience with litigation/expert witness testimony support has involved research, analysis and preparation of trial notebooks for cases including State v. County of LAUSD v. Muruelo Maddox Properties, et al. (Los Angeles), Los Angeles County v. Kernview Oil Company et al (Whittier Narrows), SANBAG v. Richland Pinehurst (Chino Hills), Los Angeles County v. Mission Peak (Los Angeles County), State of California v. San Antonio Lakes Partners (Upland) and Garasi v. Gray (Santa Clarita).

Mr. Cullen is a graduate from the University of California at Santa Barbara with a B.A. in Environmental Studies and an emphasis in Geography. He is a LEED Accredited Professional and is currently serving as the Ventura County Representative for the Channel Counties Chapter of the California Association of Environmental Professionals.



Lisa S. Ballin
Director of Environmental Services

Ms. Ballin has twenty years of experience in managing and preparing environmental documentation for projects spanning a wide range of land uses, sizes, complexities, and environmental issues. She has particular expertise in California Environmental Quality Act (CEQA) compliance, impact analysis procedures, and policy consistency analyses. She has applied her analytical, CEQA compliance, and managerial skills to large-scale residential developments, educational facilities, and mixed-use developments in urban, suburban, and undeveloped locations in the Los Angeles area as well as in Central California. Ms. Ballin brings a strong foundation in logic and analytical thought, along with an ability to grasp technical issues and the complexities typical of larger-scale projects, and to convey these issues in a written format that is comprehensible to the general public, relevant to agency decision-makers, internally consistent, and legally sufficient. As Director of Environmental Services, Ms. Ballin leads and supervises the firm's staff in the preparation of CEQA/NEPA documentation, providing strategy, oversight, and quality control. She also manages a number of the firm's EIR projects. In this capacity, she coordinates project team members including in-house staff, subconsultants, regulatory agencies and clients; prepares and monitors budgets; and reviews and edits documents for internal consistency and legal adequacy. She employs a hands-on approach and writes many EIR sections including both technical sections as well as project descriptions, impact summaries, alternatives analyses, and policy consistency analyses.

Ms. Ballin's current and recent experience includes managing the preparation of EIRs for the Santa Barbara Botanic Garden Vital Mission Plan (a plan to implement a series of changes and additions to the Garden's existing facilities), the Village at Los Carneros (a 275-unit residential development proposed for a site previously planned for industrial use within the City of Goleta), Grimes Canyon mining projects (three EIRs for three mining operations in Ventura County), and the Sakaida & Sons Surface Mine Project in Los Angeles County. Other completed projects include the EIR for the Preserve at San Marcos Project, a proposed residential development within a 377-acre, highly sensitive site within hillside area of Santa Barbara County. In addition to preparing the EIR for this project, Ms. Ballin managed the preparation of an environmental constraints analysis and assisted the County in responding to intense public scrutiny during preparation of the EIR and throughout an extended public hearing process. Ms. Ballin has also managed the City of Los Angeles Community Redevelopment Agency's Amended Little Tokyo Redevelopment Plan Program EIR, which addressed potential impacts associated with several million square feet of future commercial and residential development within a 170-acre area of downtown Los Angeles over a 30-year period. This document proved to be a successful tool for streamlining environmental review of subsequently proposed developments within the plan area.

Prior to joining Envicom Corporation (1997), Ms. Ballin managed projects for two other consulting firms, one in Los Angeles and one in New York. At the Los Angeles firm, she managed and co-managed environmental documentation of major public infrastructure planning for sewer lines and transportation systems (e.g., subways, light rail lines, an electric trolley bus system, and freeway widening projects). Her project experience at the New York firm ranged from Manhattan high-rise, urban infill development to renovation of a historic, waterfront amusement park. Ms. Ballin also managed the environmental documentation of New York City's Sludge Management Program, a complex system of sludge transportation and processing/disposal, employing a range of technologies at numerous sites throughout the City.

Ms. Ballin received her Bachelor of Arts degree in Mathematics from the University of Pennsylvania in 1986 and a Masters of Science degree in Engineering-Economic Systems from Stanford University in 1988.



ENVICOM
CORPORATION

Environmental Analysis & Compliance

Urban Planning & Design

Real Estate Development & Entitlement

Environmental Restoration

Real Estate Economics & Valuation

Brian McCarthy *Senior Project Manager*

Mr. McCarthy manages and prepares environmental documents in accordance with the California Environmental Quality Act (CEQA) and the National Environmental Policy Act (NEPA). He has over nine years of experience in the field of planning and environmental analysis. He has undertaken research and analysis pertaining to numerous environmental issues such as aesthetics, air quality, public services, public safety, recreation, noise, mineral resources, transportation, hydrology and water quality, and environmental justice, among others, in preparation of Environmental Impact Reports (EIRs), Environmental Impact Statements (EISs), Mitigated Negative Declarations (MNDs), and Mitigated Finding of No Significant Impacts (MFONISIs).

He currently provides on-going permit modification, condition compliance and Surface Mining and Reclamation Act (SMARA) compliance services for the Tapo Rock and Sand Products mining project near Simi Valley, CA and contributes to the EIR for the Sakaida & Sons EIR for mining CUP and Reclamation Plan in Los Angeles County. Past mining projects to which Mr. McCarthy has managed include the preparation of three sand and gravel mining EIRs (Grimes Rock, Best Rock and Wayne J Sand & Gravel), which were processed concurrently in the County of Ventura. He is manager of the Willow Springs II condominium development in the City of Goleta and is an analyst for a 256-unit Senior living facility in the community of Orcutt in northern Santa Barbara County.

Other past projects include large Specific Plans of over 750 housing units and individual development permit proposals. Past projects have included the preparation of EIRs for the Village at Los Carneros and Citrus Village developments in the City of Goleta. He has contributed to the EIR for the Preserve at San Marcos development in Santa Barbara County, and served as manager of the environmental planning effort for the Heritage Valley Parks Specific Plan in the City of Fillmore. As a former Forward Planner for a developer, Mr. McCarthy managed the Master Planning of a 500-acre Master Planned Community in the City of San Marcos, Texas, involving environmental constraints assessment and developing a Master Plan site plan accordingly to accommodate availability of public services, such as sewer capacity and water availability, surface water hydrologic and traffic concerns.

In his past experience in the public sector, Mr. McCarthy served as a Commercial/Industrial Land Use Planner for the County of Ventura Planning Division. As a Planner, he processed land use entitlements (e.g. Conditional Use Permits), prepared associated CEQA environmental documentation, and conducted public presentations before the Ventura County Planning Commission and Board of Supervisors. Mr. McCarthy was also the Ventura County SMARA Coordinator, responsible for the land use management of approximately 27 sand and gravel mining operations.

Mr. McCarthy holds a Bachelor's Degree in Environmental Studies from the University of California Santa Barbara (UCSB). In his studies he completed coursework in advanced environmental planning and environmental impact analysis. He obtained his Master's Degree in Management (MBA) from Boston College.

Mr. McCarthy is a member of the California Chapter of the American Planning Association (APA), where he recently served as a member of the special events committee, the Association of Environmental Professionals (AEP), and the Urban Land Institute (ULI).

28328 Agoura Road
Agoura Hills, California 91301

Tel. (818) 879-4700

Fax (818) 879-4711

www.envicomcorporation.com



Charles Cohn
Environmental Analyst

Mr. Cohn serves as an Environmental Analyst for Envicom Corporation. He performs research and impact analysis in preparation of environmental documents for California Environmental Quality Act (CEQA) compliance, including Environmental Impact Reports (EIRs), Mitigated Negative Declarations (MNDs), and Initial Studies.

Mr. Cohn is currently preparing the public services and infrastructure impact analyses for the Orcutt Union School District Key Site 17 EIR. This project proposes a General Plan Amendment and Rezone to allow for development of 257 senior housing units on a site within the Orcutt Community Plan near Santa Maria, CA. Mr. Cohn is also providing these analyses for the City of Los Angeles Community Redevelopment Agency's Pacoima-Panorama City Redevelopment Plan Amendment/Expansion Project EIR. This EIR assesses the potential impacts of future redevelopment within an approximately 7,100-acre area in the San Fernando Valley.

Mr. Cohn also has experience in water quality monitoring of streams and shorelines by sampling surface waters in the Calleguas Creek and Santa Clara River watersheds. This includes on-site testing of water quality parameters in the field as well as collecting samples for lab analysis and maintaining chain of custody documentation.

Mr. Cohn received his Bachelor of Science degree in Environmental Science from California State University Channel Islands with an emphasis in natural resource management. A major area of his studies focused on riparian habitat restoration, baseline data gathering and documentation, and water quality issues. He volunteers his time as a water quality monitor for the Ventura Coastkeeper (VCK) organization, and he is also a habitat restoration volunteer with the Ojai Valley Land Conservancy and the Ojai Valley Green Coalition.

Carl Wishner
Principal Biologist

Mr. Wishner has over 30 years of professional experience in the study and analysis of biological and natural sciences. His technical proficiency is broad-based, including expertise in floristic and faunal surveys, focused surveys of sensitive, rare and endangered species, habitat inventory and evaluation, biological impact assessment, wetland determination, natural resource policy analysis, habitat restoration, and biological monitoring. Mr. Wishner pursued his education in the biological sciences receiving a BS (Cum Laude) in Botany and MS in Biology from Humboldt State University. He held the position of Lecturer in Botany at the University, conducted research for the Pacific Southwest Forest and Range Experiment Station (Corvallis) and worked for several years as a forestry technician for the Sequoia and Inyo National Forests in California.

As Principal Biologist within the Biological Resources Division of Envicom Corporation, Mr. Wishner functions as the lead investigator for all biological field surveys and technical evaluation of constraints and impacts to biological resources. In this regard, Mr. Wishner is responsible for direct preparation of technical biological reporting on Envicom's CEQA documents.

Mr. Wishner's experience with endangered plant species concerns is considerable, having performed numerous surveys, impact analyses, prepared salvage and restoration plans, and incidental take permits for Lyon's pentachaeta at Lake Sherwood, Conejo buckwheat and Verity's dudleya at Conejo Mountain, and Blochman's dudleya at El Chorro Regional Park. He also managed the inventory and analyses of biological and botanical constraints for large areas including Santa Margarita and Hearst Ranches in San Luis Obispo County, and for Ahmanson and Jordan Ranches in Ventura County. Mr. Wishner recently completed comprehensive surveys over 4,000 acres at Adams Canyon in Ventura County, a botanical resource inventory of Malibu Lagoon State Beach in Los Angeles County, and prepared a Biological Resources Management Plan for the 6,000-acre Upper Las Virgenes Canyon Open Space Preserve (formerly Ahmanson Ranch) for the Santa Monica Mountains Conservancy. Mr. Wishner's botanical skills were instrumental in the establishment of the former Soka University Botanical Research Center and Nursery, now part of King Gillette Ranch State Park, which specializes in the conservation and study of native plants of the south coastal region of California. Through his extensive familiarity with the native flora, he has established an impressive collection of seeds of native plants for the University. Mr. Wishner served for five years as Editor of *Crossosoma*, the journal of Southern California Botanists, Inc, and contributed numerous articles to the journal.

Mr. Wishner has contributed to the development of habitat restoration plans for wetland areas in the Cuyama and Santa Clara Rivers of Ventura County, El Chorro Regional Park in San Luis Obispo County, and for a soil-contaminated upland restoration site at North American Rockwell's Santa Susana Field Laboratory (Rocketdyne) in the Simi Hills of Ventura County. He is also knowledgeable in zoology, wildlife management, mycology, bryology, biogeography and biostatistical analysis (multivariate). Mr. Wishner has investigated wildlife movements in the Santa Susana Mountains of Ventura County; the effects of blasting on nesting birds-of-prey in the Santa Monica Mountains; the status of endangered reptiles and amphibians in the Santa Lucia Mountains of San Luis Obispo



County; the condition of Critical Habitat for endangered mammals at Morro Bay; faunal inventory for La Purisima Mission State Historic Park; a valuation of damages assessment at Gaviota State Park for the State's Attorney General; a botanical evaluation of Malibu Lagoon State Beach and implications for the planned Lagoon restoration; and plan for restoration of lower Topanga Creek for California State Parks.

In the arena of resource planning and public policy, Mr. Wishner has a number of General Plan documents to his credit including a map-based inventory of biological resource areas within the City of Los Angeles for the City's Framework Planning process. Mr. Wishner also provides services to litigants in civil suits involving the disposition and valuation of biological resources. Mr. Wishner is frequently requested to perform critical reviews of environmental reports, in many cases for projects involved in litigation. Mr. Wishner has been instrumental in recent cases involving properties which serve as nesting habitats for the California least tern in Ventura County, habitat for wintering bald eagles at Big Bear Lake (San Bernardino County), and habitats for Stephens' kangaroo-rat in Riverside County. Currently, Mr. Wishner is involved in comprehensive planning efforts for facilities expansion at Santa Barbara Botanic Garden, and for long range land uses over the 6,000 acre Upper Las Virgenes Open Space Conservation Area (formerly Ahmanson Ranch), on behalf of the Santa Monica Mountains Conservancy.

As a recognized biologist and environmental professional, Mr. Wishner served for ten years on the County of Los Angeles' Significant Ecological Areas Technical Advisory Committee (SEATAC), with responsibility to review proposed projects and make recommendations to the applicants, and to the Regional Planning Department and Board of Supervisors. Mr. Wishner currently serves on the Board of the Los Angeles Chapter of the California Native Plant Society, on the Scientific Advisory Committee for the Cold Creek Preserve and the Mountains Restoration Trust, and as a Volunteer to the National Park Service at Santa Monica Mountains National Recreation Area, and to the Forest Service at Tahoe National Forest. Los Angeles Pierce College recognized Mr. Wishner as a Distinguished Alumnus on their 50th anniversary in 1998.



Jack H. Blok, Ph.D., MBA

Director of Cartography

Dr. Blok has directed Cartographic and Special Projects for Envicom Corporation since 1996. In these capacities Dr. Blok oversees the acquisition, application, and measurement of geographic data derived from fieldwork, on-site photography, aerial photography, and digital public cartographic data used in environmental studies. Since joining the firm in 1980 Dr. Blok has applied his geographic interpretive skills to document existing site conditions and proposed project impacts in over 1,000 Environmental Impact Reports and Studies filed for public review with the State of California Clearinghouse for environmental publications. In every instance when any of these documents or studies has been legally challenged they have been upheld as complete and accurate by courts of law.

Special Projects include: the mapping of environmentally sensitive habitats and natural habitat linkages; measurement and mapping of environmental degradation associated with proposed infrastructure projects; and the assessment of project impacts upon visual resources in natural and built environments. Dr. Blok also participates in the determination of economic loss studies associated with adverse project impacts on public lands.

For Envicom Corporation's litigation support services Dr. Blok has supervised the preparation of cartographic and aerial imagery exhibits for courtroom use in support of expert witness testimony in eminent domain, land planning, and California Environmental Quality Act cases. Such exhibits are designed to illustrate the location, persistence, and change in land use patterns as determined by field survey and as evidenced by historical aerial photography and maps. Other litigation support projects have involved mapping the extent and severity of visual resource degradation, environmental hazards, and impacts to natural habitats caused by large-scale public and private construction projects.

Dr. Blok has participated in the design and evaluation of urban redevelopment projects, community land use plans, regional transportation plans, and city general plans. The general plans of the Cities of Azusa, West Hollywood, Redondo Beach, Huntington Beach, San Clemente, and Los Angeles are among the completed plans. The urban re-development projects include Little Tokyo and its adjacent Arts District in downtown Los Angeles and the Third Street Mall in Santa Monica and the 2000 Avenue of the Stars project in Century City.

Dr. Blok has advanced degrees in a number of subject areas supportive of his responsibilities. They include an M.A. in geomorphology/geography, U.C.L.A.; a Ph.D. in environmental resources assessment/geography/agricultural resource economics, Oregon State University; and an M.B.A. in finance from the Anderson School of Management, U.C.L.A.

Dr. Blok continues to offer courses in Physical Geography, Geography of California, Cultural Geography, and geographic assessment method labs at Los Angeles Pierce College (1996-present). Dr. Blok's previous university teaching positions include a joint faculty appointment in geography and urban and regional planning at East Carolina University, Greenville, N.C. (1973-78) and Instructor of Geography at California State University San Jose (1967-68).



James Anderson
Staff Biologist/Environmental Analyst

Mr. Anderson conducts biological surveys, CEQA analysis, and other biological studies in support of permitting and entitlement review processes. He also prepares hydrology and water quality analyses for CEQA documents. His recent project experience includes preparation of biological resource impact analyses for the Pepperdine University Campus Life Project in Malibu and the Hilton Foundation's proposed headquarters in Agoura Hills, as well as a Los Angeles County Biological Constraints Analysis for the Sakaida and Sons Surface Mining Project in Sylmar. Other recent project experience includes preparation of a hydrology/water quality report for the proposed Hilton Foundation Headquarters and assistance with a Ventura County Initial Study Biological Assessment for an oil exploration project in the Topatopa Mountains north of Piru, CA. He has also prepared a biological impact analysis for the Joel McCrea Ranch Visitor Center MND in Thousand Oaks, and a biological constraints analysis for the Gateway Foursquare Church property in the City of Agoura Hills.

Mr. Anderson has assisted with spring biological surveys and vegetation mapping for the Ozena Valley Ranch Mining and Aquaculture Project in the Lockwood Valley, Ventura County, and for the Malibu Country Club in the Santa Monica Mountains. He has performed jurisdictional delineations for the City of Agoura Affordable Housing Project and for Sinaloa Park, a component of the Rancho Simi Recreation and Park District within the City of Simi Valley.

Mr. Anderson's biological field experience includes botanical surveys, vegetation mapping, bird surveys, Army Corps of Engineers and California Department of Fish and Game jurisdictional delineations, and forest health assessment. He has approximately 2,800 hours surveying plant communities in coastal southern California ecosystems. He has worked on a vegetation mapping and classification project for the National Park Service, and performed forest inventory and forest health assessments in a variety of California ecosystems while traveling extensively for the U.S. Forest Service. For Conservation International, he evaluated survey methods for monitoring endangered and threatened birds in high-elevation forests in Peru.

Mr. Anderson has provided, as a function of previous employment, GIS and cartography services for ecologists and planners. He co-produced vegetation and geology maps and managed GIS databases at the Tundra Ecosystem Analysis and Mapping Laboratory at the Institute for Arctic and Alpine Research. He conducted trail surveys and provided GIS support for trail management planning for the National Park Service.

Mr. Anderson has a Master of Environmental Science and Management with a specialization in Conservation Planning from the University of California, Santa Barbara. During his master's degree program, he worked on identification of wildlife corridors and impacts of projected future development on wildlife movement, identification of areas for inclusion in a protected area network, and abundance estimation of endangered and threatened species. Mr. Anderson has a Bachelor of Arts degree in Geography from the University of Colorado, Boulder with a concentration in Geographic Information Science, and a certificate in Community-Based Development from the International Institute for Sustainable Development at Colorado State University, which focused on participatory practices and capacity building for community development.



ENVICOM
CORPORATION

Environmental Analysis & Compliance

Urban Planning & Design

Real Estate Development & Entitlement

Environmental Restoration

Real Estate Economics & Valuation

Scott M. Werner
Staff Biologist

Mr. Werner has over 14 years of ecological research and consulting experience in California and the Southwest, and 5 years of biological consulting management experience in southern California. He has worked for universities, federal, county, and state agencies, and in the private consulting sector on biological resource studies. He has managed data-intensive research studies, written biological assessments, managed large construction monitoring projects, and consulted extensively on southern California electrical utility projects. Mr. Werner has worked closely with planners, construction crews, natural resource agency personnel, law enforcement, and private landowners. He has successfully applied for research grants, presented his research at national scientific symposia, and written scientific papers published in respected journals. His surveying and monitoring experience includes extensive work with special-status wildlife species such as southwestern willow flycatcher, least Bell's vireo, California spotted owl, desert tortoise, southwestern pond turtle, California clapper rail, California gnatcatcher, California red-legged frog, and burrowing owl. He holds a U.S. Fish and Wildlife 10(a)(1)(A) Recovery Permit for least Bell's vireo and southwestern willow flycatcher. Mr. Werner is also experienced with rare plants of southern California and with conducting vegetation studies.

Mr. Werner has personally conducted or managed biological assessments at thousands of power poles for Southern California Edison's (SCE) Deteriorated Pole Replacement Program and has also worked on biological resource studies for SCE's Transmission, and Operations and Maintenance Divisions. Such studies typically involve biological impact assessments, pre-construction wildlife/plant/breeding bird surveys, construction monitoring and compliance, and on-call emergency biological monitoring or avian rescue operations at SCE facilities throughout SCE's Service Territory including Los Angeles, San Bernardino, Riverside, Ventura, Santa Barbara, Kern, Tulare, Inyo, and Mono Counties. When these projects take place on public land, the work requires interaction and document preparation for land management agencies such as U.S. Forest Service (Angeles, Los Padres, San Bernardino, Inyo, Sequoia), National Park Service, Bureau of Land Management, Army Corps of Engineers, California State Parks, and others.

Mr. Werner recently completed protocol surveys for California spotted owls in areas of the Angeles National Forest burned by the 2009 Station Fire in support of an SCE project to rebuild several distribution lines. He has also surveyed for California spotted owls under contract by the U.S. Forest Service on the Angeles and San Bernardino National Forests. He conducted California spotted owl surveys on Tejon Ranch within the future Tejon Mountain Village development. He recently conducted pre-disturbance clearance surveys for breeding birds and other sensitive flora and fauna for the County of Ventura Watershed Protection District's Giant Reed Removal Program in the Upper San Antonio Creek Watershed. He has surveyed for least Bell's vireo in Ventura and Santa Clara Counties and has supervised vegetation trimming activities in the Prado Basin and Santa Ana River drainage of Riverside County, an area that supports the largest extant least Bell's vireo population. Mr. Werner conducted extensive surveys for southwestern willow flycatcher in San Bernardino County and along the Lower Colorado River from Nevada to the Mexican border.

28328 Agoura Road
Agoura Hills, California 91301

Tel. (818) 879-4700
Fax (818) 879-4711

www.envicomcorporation.com



While working for the California Department of Fish and Game, Mr. Werner conducted baseline avian and vegetation surveys in the Cañada de los Osos Ecological Reserve in Gilroy. As a wildlife biologist for the Santa Clara Valley Water District, he conducted wildlife inventory studies in creeks, reservoirs and estuarine habitats in Santa Clara County. Mr. Werner has worked on projects studying the effects of fire on wildlife populations at Camp Roberts and at Mount Trumbull on the Kaibab National Forest of Arizona.

In addition to his knowledge of biological resources and their regulatory framework, Mr. Werner has experience as a project manager involving teams of biologists on a wide range of biological services projects. He managed a group of 5-10 biological monitors for the Tehachapi Renewable Transmission Project, Segments 1-3, a new transmission line spanning 82 miles in Los Angeles and Kern Counties built by Burns and McDonnell Corporation for Southern California Edison. Other recent multi-personnel monitoring projects include SCE's Transmission-line Road Maintenance on National Park Service Lands in the Santa Monica Mountains, and SCE's Bootlegger Circuit Rebuild Project on the Angeles National Forest.

Mr. Werner has a Master of Science degree in Wildlife and Fisheries Sciences from Texas A&M University, where he studied breeding ecology and habitat associations of locally declining populations of two bird species (Altamira Oriole and Northern Beardless-Tyrannulet) in the Lower Rio Grande Valley, Texas. He earned his Bachelor of Science degree in Ecology and Evolution from the University of California, Santa Barbara, where he conducted independent wildlife research projects on Vandenberg Air Force Base and in Monteverde, Costa Rica.

Mr. Werner is proficient with ArcGIS software, having managed the GIS data and cartography on many of his projects. He constructed several nest inspection video cameras for his thesis research on Altamira orioles and is familiar with recent technological innovations in wildlife monitoring.

Mr. Werner has attended numerous hands-on workshops on topics including California Red-legged Frog, Desert Tortoise, Southwestern Willow Flycatcher, Bird Banding, California Avian Conservation, and the California Native Plant Society's Rapid Vegetation Assessment. He is a member of The Wildlife Society, Cooper Ornithological Society, and California Native Plant Society.



Erin E. Evarts
Environmental Analyst / GIS Specialist

Ms. Erin E. Evarts serves as Envicom Corporation's in-house Geographical Information Systems (GIS) Specialist. Ms. Evarts uses GIS as a means of accessing, analyzing and displaying spatial information in an accurate and efficient manner to support the resource management and planning process. Additionally, Ms. Evarts conducts archaeological investigations and has contributed to various sections of CEQA documents including cultural resources, aesthetics, and alternatives, as well as environmental constraints analyses. Ms. Evarts project experience includes mapping and analysis of jurisdictional delineations, biological resources, sensitive species, GIS/CAD integration and conversion, site suitability analysis, protocol surveys, 3-D analysis, terrain modeling, and integration of GPS/GIS technologies. She has worked on numerous projects, including the Santa Barbara Botanic Garden Vital Mission Plan EIR, Pepperdine University Campus Life Project EIR, Wildwood Stable Estates EIR, Conrad N. Hilton Foundation Headquarters Environmental Constraints Analysis, and LAUSD v. Maddox Highest and Best-Use Study. Ms. Evarts has utilized spatial analysis and GIS to relate and analyze environmental factors and their role in wildland fire protection and abatement for the Pepperdine University Wildland Fire and Landscape Management Plan and Triangle Ranch residential development.

Ms. Evarts has worked as a cultural resource and GIS consultant for private, state and federal agencies throughout Santa Barbara, Ventura and Los Angeles counties, including the National Park Service (NPS), Santa Monica Mountains Conservancy (SMMC), Mountains Recreation and Conservation Authority (MRCA) and Mountains Restoration Trust (MRT). Previous projects include Archaeological Phase I of King Gillette Ranch, Archaeological Phase I Survey of SMMC and MRCA property Upper Las Virgenes Canyon Open Space Preserve (Ahmanson Ranch), Solstice Canyon Archaeological monitoring and Phase III, establishment and maintenance of the Santa Monica Mountains National Recreation Area (SMMNRA) Cultural Resource GIS databases, georeferencing, digitizing and conversion of hundreds of historic hard copy and raster datasets to GIS layers for detailed analysis of population growth, density, and land use pattern within the Santa Monica Mountains, San Fernando Valley, and other portions of western Los Angeles County.

Ms. Evarts received a Bachelor of Arts Degree in Anthropology with an emphasis in Archaeology from San Francisco State University. Her major areas of study focused on analysis of rock-art sites in Santa Barbara County, analysis of Native American Indians use of fire in Yosemite Valley, and utilizing GIS and cartographic techniques for archaeological site organization and analysis of Ohlone/Costanoan tribal networks. In 2004 Ms. Evarts received a certificate in Geographic Information Systems (GIS) from Ventura College. Her studies focused on using GIS and Spatial Analyst to determine a least-cost analysis of possible Native American Indian trail networks between known village sites in the Santa Monica Mountains. Ms. Evarts received a Master of Arts degree in Geography at California State University, Northridge. Projects have included a constraints and opportunities study of agriculture in the Santa Monica Mountains, focusing on the growing trend of vineyard production through the mountains and the overall ecological impact. Ms. Evarts is also a member of the Society for California Archaeology, the California Geographic Information Association, and the Association of Environmental Professionals.



Christopher Boyte
Graphic Manager / GIS Technician

Mr. Boyte serves as Envicom Corporation's graphic manager and GIS technician. Responsible for the creation of effective analytical graphics and exhibits, technical illustrations, and presentation materials applied to the firm's environmental documents, display presentations, website design and maintenance, and marketing resources. Mr. Boyte also provides a wide variety of specialty graphic applications and technical support to GIS technology including; aerial photography analysis and exhibits, detailed biological mapping, visual analysis, visual site renderings, including photographic simulations/renderings, CAD support, 3D modeling and rendering and, computer generated mapping.

Mr. Boyte is highly experienced and expert in a wide variety of computer applications on Macintosh and Windows PC systems including; ArcGIS 9.3, Adobe Photoshop, Illustrator, Acrobat, In-Design, DreamWeaver, and Flash. He is also adept in Microsoft Word, PowerPoint and Excel.

In addition to his graphics and visual analysis work, Mr. Boyte has pioneered unique graphic techniques and has applied highly customized technical graphics for use in meetings and public displays/demonstrations. Mr. Boyte also oversees document preparation and provides web/internet design and support, and hardware/network maintenance.

Mr. Boyte has contributed to Environmental Impact Reports, General Plans, Permit Applications, Biological Surveys, and Master Plans. Mr. Boyte's recent works includes: Pepperdine University GCP EIR and Grading Permitting; Gulls Way California Coastal Commission Permit Application; Debs Park Master Framework Plan; Claremont Universities North Campus Master Plan EIR; Sunset Millennium EIR; Federal Express Valuation; Lake Sherwood Biological Studies and Permitting; Soka University Operational Phases; Los Angeles Unified School District v. Meruelo Maddux Highest and Best-Use Study; Hilton Foundation Constraints/Opportunities Analysis; Pajaro Valley Unified School EIR; 24400 Calabasas Road Office Project; and the 6060 Center Drive Hughes Solar Access Study.

Prior to joining Envicom Corporation, Mr. Boyte owned his own graphic design business, Visuals Design, and was a freelance designer for several entertainment agencies in Southern California. His projects have included website design and maintenance, corporate identities, direct mailer design, advertising for national publications, video editing, package design and illustration.

Mr. Boyte has a Bachelor of Science degree from Cal Poly, San Luis Obispo in the Applied Art & Design major, which he received on June 14, 1990. He recently completed his certificate program for ArcGIS at Pierce College, on December 7, 2009.

ASSOCIATED TRANSPORTATION ENGINEERS

100 N. Hope Avenue, Suite 4, Santa Barbara, CA 93110-1686 • (805) 687-4418 • FAX (805) 682-8509

COMPANY DESCRIPTION

Associated Transportation Engineers, Incorporated (ATE) is a full-service engineering consulting firm specializing in traffic engineering, transportation planning, traffic signal design, traffic signal timing optimization, and parking facility planning and design. Established in 1978, ATE has completed over 1,100 projects for a wide variety of clients located throughout California and the western United States. Representative clients include city, county, state and federal agencies (including the military), environmental and planning consulting firms, architects, attorneys, engineers, private development interests, and major commercial corporations.

Located in Santa Barbara, California, ATE is an association of one registered professional engineer, Richard L. Pool and Scott A. Schell, a nationally certified planner (AICP). The two principals of the firm have more than ninety years of combined experience in the fields of traffic engineering, transportation planning and municipal civil engineering. Mr. Pool has served as transportation and/or civil engineer in a variety of public and private capacities and is capable of working on a diverse range of projects. Mr. Schell has specialized in transportation planning and modeling, traffic impact analysis, environmental and planning regulations, and traffic signal timing and optimization.

The two principals have a strong desire to remain directly involved with the engineering and planning work completed by the firm in order to provide a broad range of cost-effective and responsive services. ATE's basic philosophy is that efficient, economic and safe transportation must increasingly depend on more effective operation and management of existing transportation facilities. The primary goal for ATE is to provide a comprehensive, high-quality engineering product while maintaining a close working relationship with their clients during all phases of project completion. This close client relationship is developed through a strong emphasis on communication throughout the course of project development.

ATE has earned a reputation for creative problem solving through a team-oriented, consensus building approach. ATE staff have developed solid working relationships with city, county, and agency staff throughout the state, and have worked extensively with personnel in 9 of the 12 Caltrans districts statewide. ATE has demonstrated the capability of developing innovative solutions and providing quality services at competitive costs. ATE has also established a solid record of completing projects on-time and within budget.

ASSOCIATED TRANSPORTATION ENGINEERS

100 N. Hope Avenue, Suite 4, Santa Barbara, CA 93110-1686 • (805) 687-4418 • FAX (805) 682-8509

RICHARD L. POOL, P.E.

Principal Engineer

CERTIFICATION: Registered Civil Engineer, California, Colorado, Arizona & Nevada

EXPERIENCE: Mr. Pool, a Registered Civil Engineer, has over 35 years of engineering experience in the public and private sectors. Since joining the partnership at ATE in 1986, he has participated in over 900 traffic engineering and transportation planning projects. Mr. Pool's areas of expertise include the design of street, highway and intersection improvements, completion of traffic impact analyses, and development of creative problem solving approaches. Many of the projects involved state highways and freeways. Mr. Pool has prepared Project Study Reports (PSR's), Project Reports (PR's) and Permit Engineering Evaluation Reports (PEER's) for projects on Caltrans highways. The facilitation of solutions and approvals of projects involving multiple jurisdictions or agencies is a strong point with Mr. Pool.

Mr. Pool has worked on projects in many different locales in California, Arizona and Nevada. The ability to determine the agencies requirements, standards and project issues has been well developed. His strength as a project manager, problem solver and consensus builder provides a basis for a successful project.

Prior to joining ATE, Mr. Pool had an engineering practice in Mono County, California. Before starting his own firm, he served as County Surveyor and Director of Public Works/Road Commissioner for Mono County in Bridgeport, California. In these positions, Mr. Pool had broad responsibilities for public works and transportation management for the County, including preparation of the County's Regional Transportation Plan and the Circulation Element of the General Plan.

EDUCATION: B.S. Civil Engineering, California State University at Sacramento, 1965

Continuing Education: California Institute of Traffic Safety, San Diego State University. Roundabout Training Course, Traffic Safety and Liability Seminar; University of California, Institute of Transportation Studies, Traffic Signal Design.

PROFESSIONAL AFFILIATIONS: American Society of Civil Engineers(ASCE), Fellow, Life Member
Institute of Transportation Engineers(ITE), Fellow
Consulting Engineers and Land Surveyors of California, Member

ASSOCIATED TRANSPORTATION ENGINEERS

100 N. Hope Avenue, Suite 4, Santa Barbara, CA 93110-1686 • (805) 687-4418 • FAX (805) 682-8509

SCOTT A. SCHELL, AICP
Principal Transportation Planner

CERTIFICATION: American Institute of Certified Planners

EXPERIENCE: Mr. Schell is a transportation planning specialist with a broad background in traffic operations, transportation planning theory and environmental regulations (CEQA, NEPA, etc.). Mr. Schell joined ATE as a Transportation Planner in 1983 and became a partner in the firm in 1992. During his tenure with ATE, he has been responsible for and participated in over 400 transportation planning studies, traffic impact reports, and parking studies for projects located throughout both northern and southern California. These projects include Circulation Element updates, Sphere of Influence Annexation proposals, and Environmental Impact Reports/Statements for large scale residential, commercial, and institutional developments, as well as Redevelopment Agency projects. Mr. Schell serves as a project manager responsible for the preparation, review, and public presentation of the various traffic impact reports and transportation planning studies.

Mr. Schell also participated in the California Energy Commission FETSIM (Fuel Efficient Traffic Signal Management) programs for the cities of Santa Barbara, Santa Maria, and Ventura and the community of Goleta, thus gaining a working knowledge of the traffic signal timing optimization programs TRANSYT and PASSER II, as well as a solid background in traffic signal operations. Mr. Schell also has extensive knowledge of the TMODEL transportation modeling software program.

EDUCATION: B.A. Environmental Studies and Economics, University of California, Santa Barbara, High Honors, 1982

Continuing Education: University of California, Institute of Transportation Studies, Fundamentals of Traffic Engineering, Traffic Engineering Operations, Traffic Engineering Planning, and Traffic Engineering Modeling

PROFESSIONAL AFFILIATIONS: Institute of Transportation Engineers, Member
American Planning Association, Member
University of California, Santa Barbara, Guest Lecturer

COMPANY PROFILE

Balance Hydrologics (Balance) is a specialized firm, recognized as being a leader in the analysis of hydrologic processes affecting quarries and mines -- watershed, channel, ground water and wetland dynamics. Our firm provides comprehensive experience in areas of particular significance with aggregate and mining operations. Our staff consists of over 30 highly qualified professionals with particular expertise in:

- Quarry and mining hydrology
- Management of runoff, erosion and sedimentation
- Surface water and groundwater hydrology, and their interaction
- Water quality evaluation and control
- Physical effects on wetland and stream environments
- Geomorphology of channels, surfaces, and slopes.
- Hydraulics and sediment transport in natural channels.
- Recharge management, and its viable use in mitigation
- Aquifer evaluation and de-watering assessments.
- Remote sensing image interpretation

Our Goal

One of our principal goals is providing land managers, engineers, planners, foresters, and biologists with key information needed to plan for sustainable land uses. Our emphasis is on field trials and investigations, supplemented where needed by simulations and archival/historical analyses. Most investigations are designed to measure and manage the effects of specific land uses on aquatic, riparian, or wetland habitat values. Many projects involve measuring variations in streamflow, groundwater conditions, sediment transport, water quality and temperature, hillslope and channel stability, scour and fill, or the exchange of water and salts between streams and adjacent alluvial sediment or tidal plains.

Our Strategy and Expertise

Our problem-solving strategy is based upon a balanced technical approach, utilizing a team of hydrologic professionals with diverse backgrounds in engineering, hydrology, geomorphology, geohydrology, geochemistry, and natural resource management. The core staff of senior-level, field-oriented specialists can provide informed opinions and analyses on short notice. Their varied professional backgrounds provide a balanced, flexible, and practical approach to problems, with consideration and integration of multiple technical issues. We serve our customers and cooperators from our main offices in Berkeley, with satellite offices in Santa Cruz, San Rafael, Auburn, and Truckee. This organization provides the benefits of local offices with central 'think-tank' capabilities.

Regulatory Expertise and Clientele

Balance Hydrologics regularly works with a wide range of environmental regulations including environmental impact analyses (NEPA and CEQA), wetlands, water rights, tribal fisheries, FEMA and FIA regulations, and Clean Water Act and/or Porter-Cologne standards. Our clientele is drawn in roughly equal proportions from managers of large land holdings (including water districts, land trusts, and tribes or native corporations), agency staff, and engineering and environmental firms seeking our specialized applications. An expanded list of clients is available upon request.

Modeling capabilities

Balance Hydrologics' team of engineers and scientists are well-versed in the full range of hydraulic and hydrologic modeling platforms used in the analyses of natural channels, estuaries, hydraulic structures, bridges, pipe crossings, storm drains, and watershed runoff. We are experienced in the use of the following computer models:

BAHM	HEC-HMS	MIKE URBAN
FESWMS	HEC-RAS	MOUSE
HEC-1	HIVEL2D	SMS
HEC-2	HSPF	TR-55
HEC-6	Hydraflow	WMS
HEC-FFA		

GIS Capabilities

Balance Hydrologic uses ArcGIS 9.3 (ArcView and Spatial Analyst) and employs a full-time GIS specialist for help realize the potential of this set of tools. Most projects include a GIS component and, as such, our staff have a great deal of experience in GIS applications.

Registrations

Balance staff consists of experienced professionals registered in California and a number of other western states in a number of disciplines, including:

- Certified engineering geologists
- Registered civil engineers
- Registered geologists
- Certified hydrogeologists
- Registered environmental assessors.

Additionally, Balance staff have earned accepted certifications by professional societies:

- Certified professional in erosion and sediment control (CPESC)
- Certified professional in storm water quality (CPSWQ)
- Certified floodplain manager

Our staff also includes specialists in meteorology, agricultural hydrology, and image interpretation to complement restoration specialists, wetland designers, and ecologists from other firms.

SUMMARY OF STAFF BACKGROUNDS

Shawn Chartrand PG, CEG, Principal Geologist/Geomorphologist

Mr. Chartrand will serve as the senior reviewer for the hydrogeologic assessment and evaluation of potential hydrologic effects of the project on local seeps, wetlands and stream channels. He has a broad range of experience: (a) working with aggregate and “hard rock” quarries to monitor their impacts on surface and subsurface resources; (b) assessing channel stability, with emphasis on streams with aquatic resources; (c) evaluating sediment sources, and developing approaches and costs for their repair; and (d) conducting numerical analyses and modeling of sediment transport. Mr. Chartrand also investigates the hydrology of karst and volcanic aquifers, and designs channel restoration plans following disturbance. , and monitors their reconstruction, including channels up to 2 miles long built at costs of up to \$15,000,000. He is presently leading an assessment of cumulative effects of, and potential mitigation measures for, small operating pits on the upper Salinas River for San Luis Obispo County and cooperating producers. Mr. Chartrand is a registered geologist and a certified engineering geologist in California.

Chris White, REA, Principal Water Quality Specialist,

Mr. White will serve as the principal-in-charge, project manager and senior reviewer for the EIR hydrology and water quality chapter. With Balance since 1991, Mr. White leads the firm’s CEQA practice is experienced in preparation of technical documents for CEQA compliance, having contributed to or managed assessments at more than 40 sites in northern California where stream channels, ponds and/or wetlands abut areas proposed for development. He is a broadly-trained hydrologist with specialized expertise in the planning and design of best management practices for stormwater quality control. He has prepared CEQA evaluations of reclamation plans for aggregate mining operations on Cache Creek (Yolo County) and recently led preparation of the Hydrology chapter for the Rockville Trails Estates EIR (Solano County). Other recent projects include the Hydrology chapters for the North Chico Retail and Annexation Specific Plan EIR and the Meriam Park Mixed-Use Project EIR, both in Chico (Butte County), and the City of Ione’s wastewater master plan (Amador County). Since 2005, Mr. White has managed Balance’s Auburn office. He is a Registered Environmental Assessor in California.

Dave Shaw, PG, Geologist/Hydrologist

Mr. Shaw investigates wetland areas, groundwater and stream systems through watershed analysis and monitoring. With academic experience in geology, hydrology, landscape design, and planning, Mr. Shaw has developed and implemented basin-wide studies to evaluate and characterize interactions between surface and groundwater, water-quality trends, and landscape history and geomorphic processes which influence channel and wetland form. These quantitative assessments are used to aid in habitat conservation planning and wetland and channel restoration design, including analysis of conceptual design and management alternatives, development of restoration plans and specifications, construction observation, and post-project monitoring. He led the mitigation planning effort as part of Balance’s contributions to the Pilarcitos Quarry EIR for San Mateo County. He has been with Balance Hydrologics for over 10 years, and manages Balance’s Truckee Office. Mr. Shaw is a California-registered geologist.

Eric Riedner, PE, Civil/Hydrologic Engineer

Mr. Riedner, who has been with Balance since 2002 and frequently works with Mr. White on CEQA assessments, will serve as the senior reviewer for engineering and drainage aspects of the CEQA review. He applies his engineering background to measuring and simulating flood flows, scour, runoff and sediment transport and retention. His expertise extends to floodplain mapping, planning and habitat restoration in wetland, riparian, and tidally-influenced environments. He specializes in computer simulation of complex environmental hydraulics problems, with a particular emphasis on multi-dimensional, non-steady state and continuous-simulation situations. Mr. Riedner is a California -registered professional engineer.

Kathleen Thompson, PE, Civil Engineer/GIS specialist

Ms. Thompson will review and assess proposed drainage designs and measures to address stormwater management and erosion and sediment control measures. She is an experienced modeler of stream and wetland systems, often in a GIS base utilizing the HEC and HEC-geo series of models. She is able to use this platform to communicate very effectively with clients and professionals in other fields. Prior to joining Balance in February 2007, Ms. Thompson was a lead modeler in the planning division of the Corps of Engineers' San Francisco District working on multipurpose ecosystem restoration and flood mitigation projects. She is a California-registered civil engineer.

Selected Project Experience: CEQA for Hard Rock Quarries

Felton Quarry Drainage and Sediment Control Study, Erosion Control Plan, and Reclamation Planning, Santa Cruz County, California



As part of permitting for a major expansion of this hard-rock quarry, Balance hydrologists and geologists prepared a detailed report on the effects of existing operations on the quality and quantity of downstream groundwater bodies and surface waters. Manganese, iron and sulfate budgets for the quarry and the receiving streams were prepared to address elevated levels in adjoining streams and wells. Alternative control measures for minimizing any adverse impacts were also evaluated and

recommendations for proper mining and reclamation of the quarry area were developed. As a result of these studies, requirements for manganese and pH control were altered.

Balance staff members subsequently assisted the project designer in phasing the reforestation and reclamation programs. Drainage plans were realigned to improve the reliability of sediment control at equivalent expense. Detailed erosion control plans were then developed, including runoff and sediment routing, plus the design of two sediment detention basins. A continuously-recording stream gage and turbidity monitoring were initiated.

Pilarcitos Quarry EIR, Half Moon Bay, San Mateo County, California

San Mateo County is the lead agency for environmental review of the proposed expansion of



Pilarcitos Quarry, located in the Nuff Creek subwatershed of Pilarcitos Creek. As currently proposed, the expansion would mine a significant portion of the 1.1 square mile watershed of Nuff Creek, focusing on the lateral granitic ridges. These ridges are deeply weathered and provide ground-water storage for seeps and springs supporting dry-season baseflow in Nuff Creek. As part of the CEQA team, Balance staff is providing hydrologic and hydrogeologic expertise to develop potential mining alternatives and

recommend a viable mine reclamation plan. Channel restoration of the lower reach of Nuff Creek, which is currently culverted through the existing mining area, is an important element of the plan, as are sediment control and assessment of potential opportunities to store additional water in the watershed to augment baseflow in Pescadero Creek.

Roblar Quarry EIR, Sonoma County, California

Balance Hydrologics staff, supporting an EIR for the County of Sonoma, conducted an intensive investigation of this proposed hard-rock quarry near Cotati. The site is located on a ridge that is the headwaters for Estero Americano, a sensitive habitat. The proposed quarry adjoins a closed landfill; with a floor 100 feet deeper than the landfill, the mining operation could potentially accelerate movement of leachate into the surface-water system. Balance conducted a careful analysis of likely leachate flow paths, and will help evaluate the potential for altered flow based on a combination of reviewing prior work by others, field work and modeling.



Garlock Pit EIR, Kern County, California



As part of an EIR for the County of Kern, Balance assisted a statewide planning firm with technical reviews of studies on the surface hydrology, slope stability and hydraulics of the proposed Garlock Pit aggregate quarry. The 300-foot deep quarry site occupies 400 acres of alluvial fan in the northern Mojave Desert along the southern flank of the El Paso Mountains near Koehn Lake. The Garlock fault, one of California's largest, runs through the site. Balance staff were responsible for reviewing ground-water and slope-stability reports submitted by the

applicant, and for evaluating the stability of large fan channels which cross major utility, gas-transmission lines, and a railroad next to the site. In the field, we identified and documented a 220-foot difference in ground-water levels across the Garlock fault not previously considered in site design, and suggested design approaches intended to preclude the single pit filling with water 200 feet deep. We also recommended relocation of one of the peripheral drainage ditches to a location where continuous hardpan precludes channel incision at the railroad.



DAVID BRUNZELL, M.A., RPA

Owner/Principal Investigator

Brunzell Cultural Resource Consulting

440 West 7th Street

Claremont, California 91711

909/525-7078

dbrunzell@bcrconsulting.net

EXPERTISE

Cultural Resource Project Management
National Environmental Policy Act Cultural Resource Compliance
California Environmental Quality Act Cultural Resource Compliance
National Historic Preservation Act (NHPA) Section 106 Compliance
Government Agency (Federal/State/Regional) Partnering, Streamlining, and Consultation
Preliminary Environmental Assessment Coordination (i.e. Caltrans PEAR/PES)
Technical Report Writing for Archaeology, History, and Architectural History
NRHP/CRHR Evaluation of Pre/historic Archaeological, and Historic Architectural Resources
Preparation of all DPR523 Site Records
Archaeological, Historical, and Architectural History Research
Archaeological Excavation
Archaeological Survey
Architectural Survey
Lithic and Ground Stone Analysis
Global Positioning Systems / Archaeological Mapping and Orienteering
Fossil Preparation
Laboratory Analysis
California SB 18 Native American Consultation
University/College Instruction: Anthropology, Archaeology, Architectural Evaluation

EDUCATION

California State University, Fullerton, M.A. Anthropology/Archaeology, 2002
Master's Degree Thesis Project: *A Phase I Cultural Resources Investigation and CRHR Architectural Evaluation of the Marymount College Campus in the City of Rancho Palos Verdes, Los Angeles County, California*

California State University, Fullerton, B.A. Anthropology, 1997

Pomona College Field School, Southern Oregon/Northern California, 1995

Table A. Employment

Employment Date Range	Position Title	Total Duration of Employment
2002-10	Owner and Principal Investigator. Brunzell Cultural Resource Consulting (Supervisory Position).	8 Years
2004-08	Senior Cultural Resource Project Manager/Archaeologist. LSA Associates, Inc., Riverside, California (Supervisory Position)	3 Years, 10 Months
2004-07	Adjunct Faculty. University of La Verne, La Verne, California	3 Years (part-time)
2004	Adjunct Faculty. Community College of Southern Nevada. 2004.	6 Months (part-time)
2003-04	Archaeological Project Manager. SWCA Environmental, Las Vegas, Nevada. 2003 to 2004 (Supervisory Position).	1 Year, 2 Months
2003	Archaeological Crew Chief. Colorado State University Center for Environmental Management of Military Lands (CEMML), Fort Greeley, Alaska. 2003 (Supervisory Position).	4 Months
2002	Archaeological Crew Chief (GS-9). Hammond Post Fire Assessment, Manti La Sal National Forest, Utah (Supervisory Position).	4 Months
1996-2002	Archaeological Field Technician/Field Director/Associate. McKenna et al., Whittier, California (Supervisory Position after 1998).	5 Years
1999-2000	Archaeological/Paleontological Crew Chief. Keith Companies, Costa Mesa, California (Supervisory Position).	4 Months
1999	Anthropological Internship. Department of Anthropology, California State University, Fullerton (academic credit earned while employed at McKenna et al.).	4 Months
1995	Archaeological Research Assistant. Siskiyou County, Oregon, with the BLM and Pomona College Field School, Claremont, California.	2 Months

RELEVANT PROJECT EXPERIENCE

A number of projects have been selected here to demonstrate Mr. Brunzell’s adherence to Professional Qualifications of the Secretary of Interior Standards for the fields of History, Archaeology, and Architectural History, as defined in the PQS. Mr. Brunzell served as project manager and first author for each project, except as indicated by*=co-author/field director, **=contributing author/field director, or ***=crew chief/field director. Table B shows time spent on prehistoric or historic archaeology or history related projects, indicated to the right of the project title. Totals are at the bottom. Table C shows time spent on architectural history projects using a similar format. Additional project experience will be provided upon request.

Year	Project Title (Project Duration)	Prehistoric Archaeology	Historic Archaeology	History
2008	<i>Cultural Resource Monitoring of the Temecula 32 Project, City of Temecula, Riverside County, California (3 Months)</i>	3 Months	N/A	N/A
2008	<i>Cultural Resource Assessment and Significance Evaluations at the Hacienda at Fairview Valley Specific Plan Project, San Bernardino County, California (3 Months)</i>	1 Month	1 Month	1 Month
2007	<i>Cultural Resource Assessment/Evaluations of the Majestic Hills Specific Plan, San Bernardino County, California (4 Months, 2 Weeks; see Also Architectural Survey Section)</i>	2 Months	1 Month	1 Month
2007	<i>Archaeological Survey Report for the Mid County Parkway, Riverside County, California (2 Months)**</i>	2 Months	N/A	N/A
2007	<i>Draft Archaeological Survey Report of the Needles Highway Improvements Project, Needles and Unincorporated Portions of San Bernardino County, California, Bureau of Land Management Lake Havasu Field Office, Arizona Jurisdiction (4 Months)</i>	2 Months	1 Month	1 Month
2007	<i>Cultural Resource Test Excavations of the Temecula 32 Project, City of Temecula, Riverside County, California (2 Weeks)</i>	1 Week	N/A	1 Week
2007	<i>Cultural Resources Assessment Box Springs Road Apartment Project, Moreno Valley, Riverside County, California (2 Weeks)</i>	1 Week	N/A	1 Week
2006	<i>Cultural Resource Assessment/Significance Evaluations, Murrieta Hills S.P., Murrieta, Riverside County, California (3 Months)</i>	1 Month	1 Month	1 Month
2006	<i>Cultural Resource Assessment and Significance of the Skyward I Project, California City, Kern County, California (3 Months)</i>	2 Months	N/A	1 Month
2006	<i>Cultural Resource Assessment of the Topaz Ranchero Project, City of Hesperia, San Bernardino County, California (3 Weeks)</i>	1 Week	1 Week	1 Week
2006	<i>Cultural Resource Assessment and Significance Evaluations of the Deutsch Property Specific Plan, City of Banning, Riverside County, California (2 Months)</i>	N/A	1 Month	1 Month
2006	<i>Cultural Resource Assessment of the Jacqueline Cochran Regional Airport, Community of Thermal, Unincorporated Riverside County, California (12 Weeks)</i>	2 Weeks	2 Weeks	2 Weeks
2006	<i>Evaluation of Prehistoric Resources Within the Jacqueline Cochran Regional Airport, Community of Thermal, Unincorporated Riverside County, California (2 Weeks)</i>	2 Weeks	N/A	N/A
2006	<i>Cultural Resource Assessment of the Simi Village Project, City of Simi Valley, Ventura County, California (3 Weeks)</i>	1 Week	1 Week	1 Week
2005	<i>Cultural Resources Assessment Hospitality Center Project, City of San Bernardino, San Bernardino County, California (1 Month)</i>	N/A	N/A	1 Month
2005	<i>Cultural Resource Assessment and Excavations at Stoneridge Ranch Project, Moreno Valley, Riverside County, California (3 Months)</i>	1 Month	1 Month	1 Month
2005	<i>Cultural Resources Assessment, Archaeological Testing, and Evaluations of the Bridle Path and N. Point Projects (2 Months)</i>	2 Weeks	2 Weeks	1 Month

Year	Project Title (Project Duration)	Prehistoric Archaeology	Historic Archaeology	History
2001	<i>A Phase I Cultural Resources Investigation of the Point Happy Project, La Quinta, Riverside County, California (1 Month)**</i>	N/A	2 Weeks	2 Weeks
2001	<i>A Phase I Cultural Resources Investigation of the Milton Property in Hemet, Riverside County, California (1 Month)**</i>	2 Weeks	1 Week	1 Week
2000	<i>A Phase I Cultural Resources Survey of the Meadowview Golf Course, Temecula, Riverside County, California (1 Month)**</i>	2 Weeks	1 Week	1 Week
1999	<i>A Phase I Cultural Resources Investigation of "The Ranch" Project Located in the Community of La Quinta, Riverside County, California (3 Months)***</i>	2 Months	N/A	1 Month
1999	<i>A Phase I Prehistoric Cultural Resources Investigation of the Eastern Industry/Majestic Realty Project, City of Industry, Los Angeles, California (2 Months)**</i>	1 Month	N/A	1 Month
--	TOTALS	3 Years, 8 Months, 3 Weeks	1 Year, 3 Months	2 years, 1 Week

Table C. Selected Projects Showing Time Spent on Architectural History Projects

Year	Project Title	Survey, Evaluation and Research
2009	<i>Cultural Resources Assessment and Evaluations East Los Angeles College (1 Month; see Also Table B)</i>	2 Weeks
2009	<i>Historic Building Evaluation of 925 52nd Street, Sacramento, California (1 Week)</i>	1 Week
2009	<i>Cultural Resources Assessment and Historic Architecture Evaluation, Campuses of Hayward Unified School District, Hayward, Alameda County, California (1 Month, see also Table B)</i>	2 Weeks
2008	<i>Cultural Resource Assessment and Architectural Evaluation for Ridgeline Equestrian Estates, City of Orange, Orange County, California</i>	1 Month
2008	<i>Proposal to Prepare Citywide Historic Context Statement and Reconnaissance Survey for the City of Napa, and Historic Context Statement and Detailed Property Survey for the Soscol Gateway/East Napa Neighborhood</i>	2 Weeks
2007	<i>Cultural Resources Monitoring Program: Architectural Demolition Monitoring of the Historic P.I. Market, Pismo Beach, San Luis Obispo County, California</i>	2 Weeks
2007	<i>Cultural Resource Assessment/Evaluations of the Majestic Hills Specific Plan, San Bernardino County, California</i>	2 Weeks
2004	Research, Development, and Application of Archaeo-astronomy Course to Teach Architectural Survey Methods at Maya Sites in Honduras, Guatemala, and Belize, University of La Verne (<i>Course Core 340: Archaeoastronomy and Maya Cosmology</i>)	3 Months
2003	<i>A Phase I Cultural Resources Inventory/ Significance Evaluations of the Whiskeytown National Recreation Area Fuel Treatment Units in Shasta County, California</i>	1 Month
2003	Architectural Research and Review at Chichen Itza Maya Architectural Site, Mexico	1 Week



KARA BRUNZELL

Architectural Historian/Project Manager

EXPERTISE

Historic Preservation Planning
Grant Writing
Architectural/Historical Research
Government Agency Partnering, Streamlining, and Consultation
Excellent Written and Verbal Communication
Public Speaking and Professional Presenting to Large Groups
PC and Macintosh Computer Systems
Employee Supervision

EDUCATION

UCLA, Bachelor of Arts in History, 1988
CSU Sacramento, Master of Arts in Public History, 2009
Master's Thesis *Historic Preservation in Napa, California*

Continuing Education

California Preservation Foundation Workshop: Oakland, California, July 31, 2009

California Preservation Conference 2008: Napa, California, April 23-26, 2008.

California Preservation Foundation Workshop: Davis, California, February 12, 2008

PROFESSIONAL AFFILIATIONS, AWARDS, AND CERTIFICATIONS

2009 Grant Application, 2009-2010 CLG Grant Awarded, City of Napa, California
2009 Member, Napa County Landmarks
2008 Grant Application, 2008-2009 CLG Grant Awarded, City of Napa, California
2007-09 Member, Napa County Historical Society

PROFESSIONAL EXPERIENCE

BCR Consulting: Architectural Historian/Project Manager: April 2009-Present
Duties include managing architectural history, historic preservation, and research projects, performing research and field work, coordinating BCR Consulting marketing efforts for the Napa office, conducting field work, and preparing business proposals.

City of Napa: February 2008-Present
Duties include assisting the planning department with historic preservation efforts, including acting as liaison with Cultural Heritage Commission and assisting consultant Page & Turnbull with Historic

PROFESSIONAL PROJECTS

- 2010 City of Napa, Planning Division: Historic Homes Workshops
- 2010 Heritage Napa Spencer's Addition and West Napa neighborhoods Intensive Level Survey, City of Napa, California.
- 2010 Cultural Resources Assessment and Historic Architecture Evaluation of Freeway Drive / Golden Gate Drive for federal paving project, City of Napa, California.
- 2009 Historic Renovation and Design Project of Victorian Residence, Napa, California
- 2009 Cultural Resources Assessment, Historic Architecture Evaluation, and DPR 523 forms of historic house in the East Sacramento neighborhood, City of Sacramento, California.
- 2009 Cultural Resources Assessment and Historic Architecture Evaluations of five Campuses within the Hayward Unified School District, Alameda County, California.
- 2009 Heritage Napa Historic Context Survey, City of Napa, California.
- 2009 City of Napa, Planning Division: Historic Homes Workshops
- 2009 Cultural Resource Assessment, Historic Architecture Evaluation, and Record Search of three historic houses in Lone Oak neighborhood, City of Napa, California.
- 2008-09 Heritage Napa Citywide Historic Context Statement.
- 2008 Cultural Resources Assessment, Historic Architecture Evaluation of historic house in Downtown Napa, City of Napa, California.

REFERENCES

Marlene Demery, P.E.
Interim Planning Manager
Community Development Department
Planning Division
1600 First Street
Napa, CA 94559
707/257-8347
mdemery@cityofnapa.org

MeHee Hyun, Ph.D.
Core Faculty, BA Program in Liberal Studies
Antioch University Los Angeles
400 Corporate Pointe
Culver City, CA 90230
310/578-1080, x101

Patrick Ettinger, Ph.D.
Associate Professor
Assistant Director, Capital Campus Oral History Program
Department of History
6000 J Street
Sacramento, CA 95819-6059
916/278-6589
ettinger@csus.edu

SWCA - Archaeologist/Paleo-Monitor, 2002

Duties: excavation, monitoring, casting paleo-artifacts on site, and sorted prehistoric artifacts for projects Harveston Development Temecula, CA and Talega Development San Clemente, CA.

CRM TECH - Archaeologist, 2001-2003

Duties: survey, monitor, map, data entry, site record searches, cultural research, analyze, catalogue prehistoric/historical artifacts (glass items, metal, lithic and ceramics), type reports and site records. Project locations: Indio, La Quinta, Coachella, Riverside, Winchester, Menifee, and Corona. Tribes on projects were Cahuilla, Soboba and Pechanga.

Archaeological Research Unit - Archaeologist, University of California, Riverside, 1998-2002

Duties: survey (used GPS technology), excavation and cataloging.

Eastern Information Center (part of the California Historical Resources Information System [CHRIS] and of the Office of Historic Preservation [OHP]), University of California, Riverside - Main Information Officer, 1998-2001

Duties: Record searches, cultural research, photocopies, fax, type letters to clients, answer the phone-lines, providing information to clients in person and via telephone, file maps and site records (numerical and alphabetical order). Participation in CHRIS/IC meetings discussing administrative tasks, policies, operations, and budget.

Joshua Tree National Park - Archaeologist, 2001

Duties: Field reconnaissance, survey, and monitoring fire affected areas within the park.

TEACHING EXPERIENCE

June-July 2000 and June-August 2001

Summer Institute Archaeology Program. Teaching Assistant: Assisted in constructing an archaeological site, taught high school students field methods, cataloging, aided with their report writings, and graded assignments.

COMPUTER EXPERIENCE

Word Processors: Microsoft Windows 1995, 1997, 2000, 2007, NT, Word Perfect 5.0 and 9.0, Macintosh Windows 1997. Graphics: Adobe Workshop 6.0, Photoshop 4.0 and 6.0, Corel Photo-Paint 9, Microsoft-Visio. Database: MS Dos for Windows and ACCESS (minimal experience). Spreadsheet: Excel.



GIROUX & ASSOCIATES

Hans D. Giroux

Senior Analyst

EDUCATION

Bachelor of Arts in German Literature,
University of California, 1965.

Bachelor of Science in Meteorology,
University of Utah, 1966.

Graduate studies in Meteorology,
University of Wisconsin, 1967-68.

Masters of Science in Meteorology,
UCLA, 1972.

Candidacy for Doctorate in Meteorology,
UCLA, 1974.

PROFESSIONAL EXPERIENCE

Weather Forecaster, U.S. Air Force,
Truax AFB, Madison, WI, 1966-67.

Staff Weather Officer/Chief Forecaster,
McChord AFB, WA,
1968-69.

Teaching Assistant, Basic
Meteorology/Advanced Dynamics,
UCLA, 1969-71.

Research Assistant, California Marine
Layer Structure, UCLA, 1971.

Research Assistant, Remote Air Pollution
by Satellites, UCLA, 1972.

Research Assistant, Climatic Change -
Aircraft Pollution, UCLA, 1973.

Instructor, Basic Meteorology, Cal State
Northridge, 1972-74.

Air Pollution Meteorologist, S-Cubed,
LaJolla, CA 1973-75.

Senior Meteorologist, Meteorology
Research, Inc., Altadena, CA 1975-77.

Instructor, Weather for Flight Aircrews,
Orange Coast College, 1976.

Instructor, Basic Meteorology, Golden
West Community College, 1976-81.

Instructor, Basic Meteorology, Orange
Coast College, 1977-81.

Consultant, Atmospheric Impact
Processes, Irvine, CA, 1977-present.

Professional Responsibilities

Military: Performed operational weather forecasting for jet aircrews; trained new personnel; responsible for ground safety, security, records administration, quality control, forecasting methodology research, and liaison with other base units; air defense battle staff weather officer; and deputy detachment commander.

University: Conducted laboratory sessions; instructed students in the use of meteorological instrumentation; demonstrated weather analysis techniques; supervised student weather observation programs; gave lectures and tests.

Private:

Air Quality: Prepared air quality impact assessments for coal-fired, oil-fired, nuclear geothermal and wind energy power generation systems; prepared impact assessments for transportation systems, industrial emissions sources, wastewater treatment plants, landfills, toxic disposal sites, oil processing facilities, mining operations, commercial, residential, institutional and recreational land uses, airports and harbors; conducted atmospheric gas tracer experiments; developed numerical airflow analyses; and conducted numerous meteorological and air quality data acquisition programs with a very strong emphasis in arid environments, geothermal development, odors and nuisance and in regional pollution impacts from Southern California urbanization.

Noise: Developed impact assessments for roadways sources, construction equipment, sand and gravel plants, wineries, industrial equipment, gas recovery plants, railroads, recreational activities and oil refineries; monitored ambient noise levels from above sources, calibrated highway traffic noise model (FHWA-RD-77-108), and calculated sensitive receptor noise exposures; wrote community noise ordinances, purchased monitoring equipment and trained city staff; performed noise mitigation studies including barrier design, location, equipment noise control, and residential building retrofits.

Professional References

Dr. Don B. Blumenthal, President, Sonoma Technology, Inc.
Mr. Tom J. Lockhart, CCM, Meteor. Standards Institute
Ms. Sylvia Salenius, Director, Env. Studies, P&D Technologies
Mr. Mike Tolmasoff, Director, No. Sonoma County APCD
Mr. Harry Dillon, Deputy Director, Imperial County APCD
Dr. Alan Eschenroeder, President, Alanova, Inc.
Mr. Ken R. Richards, Senior Engineer, Consoer-Townsend Assoc.
Mr. John Ledbetter, City of Berkeley Planning Dept.
Ms. Barbara Reid, City of Chula Vista Planning Dept.

MINING PROJECTS - performed on-site data acquisition, prepared emissions off-set (trade-off) and PSD increment analyses, prepared permit support data, including dispersion modeling, wrote EIRs/EISs - conducted noise monitoring for extraction, processing and hauling of aggregate materials. Mining project experience includes:

- . Border Highlands Gravel Extraction Site Impact Study, San Diego, CA
- . Hester Granite Ready Mix/Asphalt Hot Plant Impact Study, El Cajon, CA
- . Beaumont Concrete Quarry Expansion EIR, Cabazon, CA
- . Cushenbury Quarry Master Plan EIR, San Bernardino County, CA
- . Cal-Mat Quarry Master Plan EIR, Jamul, CA
- . Cal-Mat Quarry CUP Noise Monitoring, Fresno County, CA
- . Daley Quarry Master Plan EIR, San Diego County, CA
- . Padre Transit Mix Quarry Expansion EIR, Poway, CA
- . Plunge Creek Quarry Master Plan, Highland, CA
- . Mescal Creek Master Plan EIR, Antelope Valley, CA
- . Cajon Creek Rock Processing Plant, San Bernardino County, CA
- . Agua Dulce Mineral Extraction & Processing, North Los Angeles County, CA
- . Wilson Creek Sand Mining Operation, Riverside County, CA
- . Dutra Quarry Nuisance Lawsuit Monitoring, San Rafael, CA
- . Grimes Canyon Master Plan (3 operators), Ventura County, CA
- . Chandler Aggregates Quarry Noise Impact Study, Riverside County
- . Kings River Aggregates Master Plan, Fresno County, CA
- . Service Rock Palmdale Quarry Expansion, Palmdale, CA
- . Granite Quarry Master Plan EIR, 29 Palms, CA
- . Vulcan Quarry Noise Compliance Study, Poway, CA
- . Hi-Grade Materials Quarry Expansion, Lucerne, CA
- . Service Rock Plant Expansion, Mojave, CA
- . 75th Street (Pusic) Quarry Expansion, Palmdale, CA
- . Snow White Pumice Mine Reactivation, Hinckley, CA
- . Granite Stuckey's I-15 Borrow Pit, Barstow, CA
- . Alberhill Southwest Shale Mine Expansion, Lake Elsinore, CA
- Sakaida Mining Project, Los Angeles, CA
- Vulcan Mine Westward Expansion Noise & Blasting Vibration, Azusa, CA

KENNETH WILSON

Principal Engineering Geologist

EDUCATION

University of California at Riverside, B.S. Geological Sciences, 1967
University of California at Riverside, M.S. Geological Sciences, 1972

PROFESSIONAL REGISTRATIONS

Registered Geologist, California, #3175
Certified Engineering Geologist, California, #928

PROFESSIONAL SUMMARY

Kenneth Wilson is responsible for management, technical supervision and performance of engineering geology, geotechnical, environmental impact, and environmental geology projects, and is a Registered Geologist (#3175) and Certified Engineering Geologist (#928) in California. He performs and supervises environmental assessments for commercial, industrial and government projects covering the disciplines of hydrogeology, engineering geology, geology, hydrology, seismicity, tectonics, faulting, mineral resources, and waste management. Geotechnical studies include fault evaluations, ground failure assessments, slope stability and foundation materials characterization, liquefaction potential, flooding hazards and site selection. The emphasis of his work is on defining geologic and geotechnical conditions, and hazards, which may affect the feasibility and design of any type of development project. Mr. Wilson has over 30 years of technical performance and project experience in critical facilities studies, radioactive/mixed/hazardous waste management, energy plant site licensing, impacts to surface and groundwater resources, waste disposal site development, dams and reservoirs, and numerous other engineered structures. Specialized experience is in engineering geology in support of geotechnical studies, site selection/evaluation, seismic safety, integration of multidisciplinary technical teams, project management, and EIRs, EAs, and EISs. Representative Project Experience lists are available as Addenda to this resume.

PROFESSIONAL EXPERIENCE

Wilson Geosciences, Engineering and Environmental Geology [1989-Present]

Principal Engineering Geologist: Responsible for all management, technical and marketing activities for engineering geology, urban planning, environmental impact, and environmental geology projects. Performs and supervises environmental assessments for commercial, industrial and government projects covering the disciplines of hydrogeology, engineering geology, geology, hydrology, seismicity, tectonics, faulting, mineral resources, and waste management. Geotechnical studies include fault evaluations, ground failure assessments, slope stability and foundation materials characterization, liquefaction potential, flooding hazards and site selection.

The Earth Technology Corporation [1974-1989]

Corporate Vice President: Mr. Wilson worked from late-1987 to mid-1989 for the Chairman/CEO and the President/COO performing the following tasks: assisting in evaluation of several potential acquisitions; management of pre-acquisition due diligence; evaluation of four new office geographic expansion options; managed preparation of corporate health and safety program and H/S technical procedures. In 1989 was principal-in-charge for start-up of environmental engineering and hydrogeology portion of Technical Assistance Contract with DOE/Nevada Operations, Environmental Safety and Health Branch; task areas included quality assurance, geohydrologic assessments, defense waste management, geohydrology, environmental restoration program and environmental compliance.

Vice President, Director, Program Management: Mr. Wilson reported to the President of the Western Division (1985-1987) and was responsible for business development, project execution and strategic planning for market areas related to radioactive (high, mixed, and low-level) waste management programs, energy and mineral resources, geophysics and offshore technology. Emphasis was on geoscience, engineering, environmental, and program management disciplines

for site selection, site evaluation/characterization, site remediation and specialized advanced technology considerations in hydrologic modeling, rock mechanics testing and geophysical exploration. Directed and supervised preparation of proposals for large government programs (e.g. California Low-Level Waste Site Development Contractor, Grand Junction Project Office Management Contract, Southern Region Geologic Project Manager, DOE Salt Project-Technical and Field Services Contract).

Vice President, Associate and Senior Manager: Mr. Wilson had numerous challenging technical and management responsibilities and assignments during the period 1974-1988, many of which are summarized in available REPRESENTATIVE PROJECT EXPERIENCE addenda. There was a wide range of projects for which he had a technical role, either performance, supervisory, or management in scope. A substantial portion of the time he was involved in the Missile-X (MX) ICBM, Siting and Characterization Studies in the Western and Midwestern United States: for United States Air Force, Ballistic Missile Office, and the Southern Region Geologic Project Manager (SRGPM) in Mississippi, Louisiana, Texas, Georgia, South Carolina, Virginia, Maryland for Office of Nuclear Waste Isolation (ONWI) and Office of Crystalline Repository Development (OCRD). These projects were national in scope and involved most geologic, geotechnical, geophysical, environmental, and hydrologic disciplines, with multi-year contract values in the \$30 to 70 million dollar range.

Converse Consultants (formerly Converse, Davis and Associates) [1970-1974]

Staff and Project Geologist: Conducted and supervised investigations in southern, central, and northern California, southern Nevada, and eastern Washington. Groundwater and related studies included permeability, transmissibility, and storage coefficient studies at Searles Lake, California; earth dam projects at Yucaipa, Littlerock, and Anaheim, California; groundwater contamination (hydrocarbons) evaluation in the Glendale, California area; wastewater and water treatment facilities in Solvang, Lompoc, Victorville, Thousand Oaks, and Sylmar, California. Numerous earthquake and fault risk studies were performed for earth dams and reservoirs, high-and low-rise buildings, hospitals and schools, proposed nuclear power plant sites, water storage tanks, and large-diameter pipelines. Landslide and other slope failure studies were performed in rock and soil terrains. Offshore studies planned and conducted include coastal geophysical (seismic reflection, side scan sonar, fathometer), sampling and scuba investigations near Monterey and Dana Point, California.

Performed geologic, hydrologic, drilling, geophysical, faulting and earthquake evaluations (both field and office-based) for two potential and two existing nuclear power plant sites. Field evaluations included mapping, trenching, drilling, detailed logging, age-dating, technical analyses, and report preparation. Geologic environments ranged from arid deserts (California and Washington) to humid coastal (California).

PROFESSIONAL ORGANIZATIONS

- Member Association of Engineering Geologist, National Section
- Member Association of Engineering Geologist, Southern California Section
- Member American Geophysical Union

COURSES, SEMINARS, AND WORKSHOPS

- Seismic Interpretation for Geologists, by the Oil and Gas Consultants International, Inc., Intensive Short Course, Houston, Texas
- Engineering Geophysics Short Course, Colorado School of Mines, Office of Continuing Education, Golden, Colorado
- Fundamentals of Ground-Water Monitoring Well Design, Construction, and Development, Las Vegas, Nevada
- Field Practices for Collecting Representative Ground-Water Samples, Las Vegas, Nevada
- New Developments in Earthquake Ground Motion Estimation and Implications for Engineering Design Practice, Seminar organized by Applied Technology Council and funded by U.S. Geological Survey, Los Angeles, California
- Seismic Hazards Analysis, Course sponsored by Association of Engineering Geologists, Los Angeles, California

GENERAL TYPE OF WORK PERFORMED BY WILSON GEOSCIENCES INC.

Wilson Geosciences, Inc. (WGI) was organized in 1989 and specializes in many areas of geologic and engineering geology services. WGI staff and associates have extensive experience in geology, hydrogeology, and soils engineering studies. WGI is committed to providing timely and reliable environmental impact and related geologic services. We provide client interface, project management, and technical guidance and review, as well as interface with regulatory agencies.

WGI has performed geologic and engineering geologic studies for planning, permitting, design, and construction projects primarily in southern and central California, as well as portions of northern California. Kenneth Wilson, as principal geologist, has more than 35 years of experience in performing various sizes, and complex and/or routine investigations in the region. He is directly involved in each project on a day-to-day basis to ensure that each client and their project receives the attention necessary to carry it successfully from inception to completion by maintaining budget, schedule, and technical goals.

The specific geologic and engineering geologic services offered by WGI are:

- Engineering Geology
- Fault Activity Assessments
- Environmental Impact Analysis
- Hydrogeology and Groundwater Studies
- Site/Route Selection and Characterization
- Railroad and Pipeline Risk Assessments

Wilson Geosciences works with other firms in the southern California area to offer broader services for geotechnical characterization, planning, design, construction, and special evaluations for site screening and site selection projects. These additional projects are in the following categories:

- Soil and Foundation Engineering
- Earthquake Engineering and Seismic Evaluations
- Liquefaction Analysis
- Field and Construction Monitoring, Instrumentation, and Testing
- Geotechnical Research
- Probabilistic Risk and Consequence Analysis

As our experience relates to the New Community Plans and Additional Environmental Services we would (a) prepare specialty studies in engineering geology, geology, and any of the categories listed above, (b) prepare a full technical background report for one or more Community Plan areas, and (c) prepare the Geology and Soils portion of an environmental document (e.g., EIR, IS, MND).

EXPERIENCE COMPLETING STUDIES (1) AS A PART OF EIR PROJECTS AND (2) IN LOS ANGELES

Mr. Wilson's first environmental document was completed in 1974 for expansion at LAX. Since 1989 he has worked on well over 100 environmental studies and reports. Substantial studies conducted in Los Angeles during that time for planning and environmental firms include:

- Bonelli Park
- Los Angeles Framework Plan
- El Pueblo de Los Angeles
- Little Tokyo
- Playa del Rey SCGC Gas Storage
- Union Station
- Hollywood Bowl
- Grand Avenue Redevelopment
- West Los Angeles College

Since 2003 WGI has supported environmental studies conducted by LAUSD through its on-call contractors. The work has consisted of geologic hazards evaluations, hazardous pipeline risk assessments, and railroad risk assessment throughout the City. Some 32 separate projects were completed as follows (SR = South Region and CR = Central Region):

Client: Jeff Harvey, Harvey-Meyerhoff Consulting Group, LLC, Sacramento, California 916-799-6065, [harvey-jeff@sbcglobal.net](mailto:jeff@sbcglobal.net).

Project Description: The EIR describes the geology and soils of the Irwindale area and the greater southern California region, but focused on geological issues, including seismicity/ground shaking, slope stability, liquefaction, subsidence, geotechnical characteristics, and expansive soils associated with mining operations at Vulcan Materials Company (Vulcan) Durbin Quarry, Reliance I Quarry, and Reliance II Landfill. The section identified applicable laws, ordinances, regulations, and standards (LORS) related to mining operations and reclamation planning. Measures required in order to minimize potential geologic and soil impacts were also identified.

--Complete Technical Studies Related to General Plan Safety Element

City of Arcadia General Plan Update—Geology and Soils Technical Background Report

Client: Laura Stetson, Hogle-Ireland, 201 South Lake Avenue, Suite 308, Pasadena, CA 91101, 626-356-4460 (v), 626-356-4464 (f), www.hogleireland.com.

Project Description: WGI prepared the Geology and Soils Technical Background Report for the City of Arcadia General Plan Update. The City general geologic and seismic conditions compare with the City of Los Angeles being located along the southern slope of the Transverse Ranges, being susceptible to large earthquakes from thrust, strike-slip, and blind faults. All geologic hazards were evaluated with respect to the potential impacts on the city in general and on critical, essential, and high-population facilities specifically. New hazard zones were recommended in areas where new studies and information suggested the potential for adverse geologic conditions.

--Complete Other Tasks Needed for CEQA Compliance

City of Los Angeles— Technical Report: Fault Investigation--Proposed Stonebridge Estates Development Site, 12400 Big Tujunga Canyon Road, City Of Los Angeles, California

Client: Kevin Armstrong, KD Partners, 525 E. Colorado Boulevard, Suite 300, Pasadena, California 91101, 626-440-8288 (v), 626-609-2359 (f), kevin.armstrong@kdpartners.com.

Project Description: The client proposed a residential development on part of 112-acres located along the southeast side of Big Tujunga Canyon Road in Tujunga (City of Los Angeles), California. This study was conducted as technical support to the preparation of an environmental impact report for the proposed development. Due to the presence of published mapping of geological faults, a City Fault Rupture Hazard Area, and an Alquist-Priolo Earthquake Fault Zone (APEFZ) within the property limits, WGI was engaged to determine the location and potential ground surface rupture of the Lakeview and Rowley faults, mapped by others within portions of the Site. Approximately 2800 feet of exploratory trenches were positioned around the north, west, and south portions of the Site to determine if subsurface evidence was present for the reported faults. Specifically, it was to determine if (a) evidence exists for the Lakeview fault along the western edge of the Site and (b) any evidence exists for the various suggested locations of the Rowley fault. Results of the detailed geologic logging of the fault investigation exploratory trenches within the Site revealed no evidence of Holocene faulting.