



PAR

ENVIRONMENTAL SERVICES, INC.



NEWSLETTER

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PAR ENVIRONMENTAL SERVICES, INC.'s mission is to provide technical reports on time, within budget, and with meticulous attention to detail.



ARCHAEOLOGY IN FOLSOM, CA *by Mary L. Manieri*

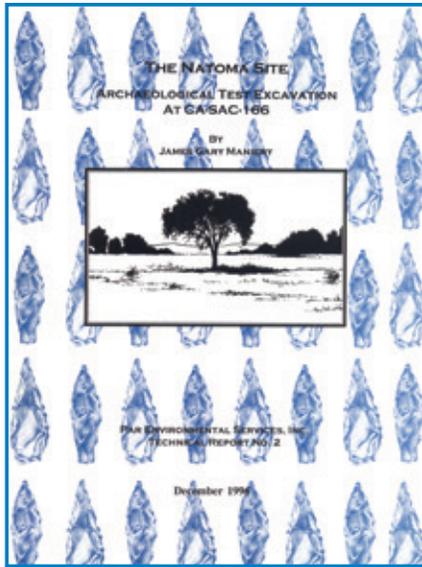
The City of Folsom and its surrounding area is a fascinating place. While many of you may think of Folsom as the land of subdivisions, outlet stores, Intel and other modern industries, to those of us at PAR, Folsom represents thousands of years of cultural use, reflecting the resilience of humans to adapt and change. PAR's first job in Folsom, in 1988, was a basic survey for a planned bridge crossing the American River in the old part of town. We have returned to the area many times since then, with each new job giving us the opportunity to expand our in-house data base, our personal knowledge, and our appreciation for this multi-faceted place. Our work has been reviewed by numerous agencies and conducted for many clients, including various departments within the City of Folsom, National Park Service, Bureau of Reclamation, Bureau of Land Management, Army Corps of Engineers, Caltrans, FHWA, Department of Corrections, California State Parks, numerous private developers and energy companies, and the State Office of Historic Preservation. So join me in a trip through time, as seen through some of the resources of Folsom chronicled in our PAR archives.

Native American Use

For many years it was believed that the extensive mining around Folsom beginning in 1848 obliterated most, if not all, of the evidence of prehistoric and Native American use. As we surveyed, excavated and researched over the years it has become evident that this assumption is just wrong. We have tested several prehistoric lithic scatters on Folsom Prison property (with armed guards protecting us at all times!), midden deposits along drainages in what would become the Broadstone Development, recorded bedrock mortar milling stations along the American River in Negro Bar State Park, and studied an occupation and burial site at Highway 50 and Folsom Boulevard Interchange. Analysis of artifacts, obsidian hydration and radiocarbon dating of the sites we've worked on indicate Native use of Folsom extends back at least 3,000 years! We have worked with the Ione Band of Miwuk Indians, Shingle Springs Rancheria, United Auburn Indian Community (UAIC) and other groups of Native Americans during our endeavors.

In the spring and summer of 2011 PAR conducted extensive excavations

on the old railroad grounds in downtown Folsom and uncovered ground stone, lithics and other evidence of Native American life in Folsom. We are currently working with the UAIC and the City of Folsom to design a landscaped plot for the railroad block containing native plants and commemorative signage to interpret the long Native American use of Folsom for the general public. As part of a treatment plan developed for the railroad block project we are preparing an ethnographic/ethnohistoric study for the Folsom region. This study will incorporate archival and oral interview data, discuss land use patterns and disturbances and review aerial photographs and other information to develop a Native American ethnography and assess sensitivity of the City and surrounding areas. If you would like to experience a bit of Folsom's Native American history, take a walk on the trail leading from the Folsom Powerhouse down to the river and keep an eye open for the bedrock milling station along the route. Enjoy a picnic lunch and a swim in Lake Natoma while you are there!



Natoma Site Publication (available through PAR).

Chinese/Chinese American Use

One of the best things about returning to the Folsom area year after year is the opportunity to explore the interaction between people living and working in the rural, outlying areas

of the region and the residents of the town. This is especially evident in the sites occupied by overseas Chinese immigrants. The Chinese first came to Folsom around 1850, drawn by the lure of placer gold. They stayed and mined, using sluice, drift and hand placer mining methods. Our surveys along Highway 50 and around the Broadstone Development identified numerous examples of Chinese mining and their associated camps. We have documented, tested and researched several Chinese hearth sites dating to the 1860s-1870s in the outlying areas around town. Studying the items left behind by these sojourners became especially meaningful when we were also given the opportunity to archaeologically explore the Chinese community center in old town Folsom.

Folsom's Chinese center occupied a three-block core on the edge of the commercial center in town. The vibrant heart of the local Chinese population thrived from around 1850 until the 1890s and supported hundreds of people. This area contained stores, laundries, Chinese association halls, butchers, slaughterhouse, restaurants, and many other businesses that catered to the hundreds of Chinese who were mining the outlying areas, digging canals for the Natoma Water Company and adding to the labor pool around Folsom. Several temples (aka "joss houses"), three cemeteries, and two or three benevolent society centers served the community. Historic newspaper articles often reported on the activities that occurred as part of Chinese New Year celebrations, funerals, and various ceremonies, such as Ching Ming festival. As part of the American River Crossing Project we excavated two blocks within the historic Chinese core, uncovering a traditional Chinese roasting oven and wok used by a restaurant, and an outdoor cooking area (strewn with pig bones,

wok fragments and ash) used by inhabitants of a boarding house. The excavations recovered over 50 boxes of artifacts, most manufactured in China. Comparing the collections



"Four Flowers" Porcelain Artifacts recovered from the Folsom Chinese Community Excavations

from the rural mining camps and the main town center lends itself to studies of access of goods, interaction between the laborers and merchants, and use of benevolent societies. Our work in the Chinese community was first documented in our 1997 newsletter. As part of our 30-year celebration of PAR we have republished this newsletter and posted it on our website at www.parenvironmental.com. Check it out!

The Railroad Use

While the discovery of gold at Negro Bar in 1848 spurred initial development of Folsom, it took the planning of the Sacramento Valley Railroad (SVRR) in 1856 to result in the town grid we see today. The SVRR was the first railroad west of the Mississippi River. Only 25 miles in length, its completion allowed transportation of freight and passengers from Sacramento to Folsom. From there, supplies and people were loaded onto wagons and stage coaches for transport to the mother lode. Often overshadowed by the later development of the yards at Sacramento and the construction of the transcontinental railroad, the modest SVRR marked one of the most important events in California's transportation history. Folsom, as the planned terminus and

railroad yard for the SVRR, is also extremely important in rail history.

We have conducted work on the railroad block (actually a two-block long by one-block wide area) on five separate occasions through the years. Each time we have exposed a different element of Folsom's amazing rail history. We have found the first turntable built in California (an 1856 deck-style structure with a brick-lined pit and central granite pivot stone), the remains of the roundhouse dated 1868-1885 (a curved structure 90 feet long and 60 feet wide designed to accommodate four engines and a tool shop), the waste areas from the machine shop and cast iron foundry (with slag, discarded tools, cinders, and metal lathe shavings) and a blacksmith forge. Artifacts associated with the rail features include door locks and engine parts stamped with C.P.R.R. (Central Pacific Railroad [the company that took over the SVRR operation]), files, shovels, tools, and machine parts. We have also been able to explore other businesses on the block that catered to the railroad and its passengers, including the Perkin's freight warehouse, the town jail, a saloon, restaurant (all dated to the 1860s), and community gathering areas used from the 1890s into the twentieth century. Numerous privies, a brick-lined well, wood box culverts and brick drains were also found. We finished the final excavations on the railroad grounds in September 2011 and are currently analyzing artifacts and working on a comprehensive report documenting the history and archaeology of the two-block area.



Mary, Cindy, Ken McIvers, Keith Syda and a City of Folsom worker standing on the turntable pivot stone, 1993

Editor's Corner *by James Gary Manieri*

This is our seventeenth volume of the company newsletter. Yes, it has been challenging, but certainly a pleasure to work on with our staff over the years. Although feedback was not always positive in its formative years, especially when readers found typographical errors, we have been encouraged by positive feedback from some readers that think we are doing "good stuff." Despite its occasional flaws, publishing a newsletter has been an excellent way of reaching out to clients, colleagues and friends. With this said, and in consideration of our company celebrating 30 years in business, allow me to share a few philosophies and historical notes about our business.

First, when we began our cultural resource management (CRM [referred mainly as public archaeology then]) company, we set a goal to stay committed to the discipline in some fashion. Unfortunately, we did not have a pile of money to philanthropically contribute, so we decided to take our CRM work a step further and publish results from some of the more significant projects, and to present papers at professional meetings held across the country. As you will read in our "News Flash Items" we are still committed to this philosophy today.

As many of our colleagues and friends know, in 1987 we diversified our business plan from exclusively providing CRM services to an enterprise providing environmental planning -- hazardous waste site assessments, community impact and visual analyses and the management and preparation of environmental impact reports (EIRs). We hired our first biologist in 1987, and once had nearly 40 employees on our payroll. Make no mistake this new experience was quite exhausting, at least administratively speaking, but we did gain a much appreciated perspective on pursuing multidisciplinary projects -- mainly in the transportation arena in which we are still providing services.

We have been diligent about maintaining electronic and hard copies in a

library of unpublished technical manuscripts that has grown exponentially over 30 years. We now have well over 2,000 technical reports (from in-house projects) that are organized on floor to ceiling bookcases and also accessible in a Microsoft Access database. Our administrative technician tells me that Mary and I have authored 680 of these technical reports (a number that seemed very improbable in 1982 when we first started the business) and long-term employees, such as John Dougherty and Cindy Baker, have significantly contributed as well. This collection is complimented by 100 acid-free Hollinger boxes that contain unpublished primary data, numerous photographic binders representing hundreds of projects and drawers of historic maps.

As we bring 30 years to a close this March, I would like to extend my appreciation to several friends, family and colleagues who have contributed to our success in the business of cultural resources and environmental planning services. First in order are our parents: Ray and Norma Williams and Betty and Jim Manieri. Several others helped and often inspired us along the way, including the Tiedemann family, Tom Keter, Ken Wilson, Greg Greenway and my good friend Dave McCullough.

Finally, please enjoy our 30th year anniversary newsletter issue, or at least flip through it before tossing it into the recycling bin. This issue touches on some important projects, one of which mixes a bit of history, golf and environmental sustainability (Chambers Bay, Washington); an in-fill project along a portion of historic R Street in midtown Sacramento; and historical archaeology and community outreach in the town of Folsom, a California Gold Rush town of rich history and lore. Oh, and by the way stay tuned for our next issue that will feature a few images from various sites we plan to visit across the pond in Italy and Scotland. ✂



Excavating a brick well (left rear) and roundhouse (center) with historic turntable, 2011



2011 excavation with Perkin's Warehouse foundation in foreground and historic turntable in background

PAR's Senior historian, Cindy Baker, prepared a booklet for public dissemination nearly 15 years ago documenting the history of the SVRR. It has been reprinted many times through the years and is still available for sale in the Folsom History Museum. While at the museum, look across the street to view a galleys-type turntable in the middle of the newly completed Folsom Historic Station. This turntable is built on the original pivot stone found by PAR in 1993! If you walk up on the turntable there is a wedge-shaped opening that exposes the original 1856 brick wall of the first turntable, pivot stone, and the granite ring rails along the base. The grand opening for the renovated Folsom Historic Station plaza area, with the historic turntable as a focal point of the block, is planned for April 2012. Hope to see you there!

Community Involvement

Working in Folsom is fun! It is such a joy to work and research in a place where the City and community appreciate, enjoy, and embrace their history and archaeology. The enthusiasm, support and encouragement of the City of Folsom for what we do has allowed us to partner with them and local avocational groups to bring historical archaeology into the community. In 1993, for example, when we

dug in the railroad block looking for the turntable remnants, the Folsom-El Dorado-Sacramento Historical Railroad Association (FEDSHRA) arranged to have the Folsom High School Jazz Band perform as part of a "kick off the excavation" party. They had a "golden shovel" ceremony and turned over the first shovelful of soil, camped on the site at night to protect the exposed remains from vandals, and served as docents during the day, keeping interested members of the public up to date on our findings while allowing us to work.

Through the ensuing years Folsom residents, members of the Folsom Historical Society, Sacramento Archaeological Society, Folsom Junior College students, FEDSHRA, and others have donated about 1,000 labor hours to PAR and the City, guarding the sites during active excavation, serving as docents for site tours, washing, sorting and cataloging the thousands of artifacts that have been recovered through the years. When we were digging the Chinese community site the City assisted us in accommodating site tours for 5th and 6th graders; over 400 students gained an appreciation of the town's Chinese history by visiting the site.

The collection has been used in many exhibits, including a few de-

signed by PAR's Senior Historian, Cindy Baker for City Hall and the Folsom History Museum. We have used the artifacts and data collected from Folsom in in-house displays and for exhibits and presentations at professional meetings of the Society for Historical Archaeology, Society for American Archaeology, Society for California Archaeology, Sacramento Archaeological Society and Folsom Historical Society. PAR has been curating the collection, along with the material from the rural Chinese camps for many years. We are



Folsom turntable, 1993 with members of the public observing the work.

hopeful that in the near future both collections will be moved to the Chan house a few doors down from the Folsom History Museum on Sutter Street. The Chan House is a home built and occupied by the Chan's, who first came to Folsom around 1852. It seems appropriate that the wonderful artifacts from the excavations are curated a home turned into a museum and center celebrating Folsom's long Chinese American history.

Other Firsts

My editor for this newsletter tells me I am out of space but I would be remiss without calling attention to other aspects of Folsom's history that we have been privileged to explore. These include identifying remnants of one of the first sawmills in the area (dated 1848), conducting studies on

the Folsom Powerhouse (the first in California), documenting unique buildings constructed by Italian carpenter, Giuseppe Murer in the early 20th century (including the Murer House, now a City cultural center), researching the many mining sites dating from 1848 into the dredge operations that ended in the 1960s, and preparing a National Register of Historic Places nomination for the Chung Wah cemetery and a Point of Historic Interest nomination for the Young Wo cemetery. We have been honored to work with the NAACP in preparing a Point of Historic Interest nomination for the site of Negro Bar and have also explored the history of Folsom's Jewish, Portuguese, and Japanese populations. Folsom and its outlying area has become our "home away from home" through the years and we look forward to expand-

ing our research base and providing the results of our work in professional and popular venues, hopeful for the benefit of future generations.

Note: for information on the Murer House Foundation visit www.murerhouse.org. For details on the work of the FEDS and opportunities to participate in their annual handcar race visit www.fedshra.org. ❧



Murer House, Folsom, CA
(www.murerhouse.org)

30 Years of PAR: A Retrospective *by Mary L. Maniery*

In the Spring of 1981 I boarded an airplane with my friend, Charla, heading to the 46th Annual Society for American Archaeology meetings in San Diego. Charla knew many people on that flight and we shared our row with one of her colleagues, Gary Maniery. At that point in my life the ink wasn't even dry on my brand new MA diploma and Gary's MA thesis was in review. As we talked on the plane we realized we had something in common: we were both unemployed! We both had worked as seasonals for the Forest Service and, in Gary's case, the federal Fish and Wildlife Service in Alaska, but, with federal hiring at a freeze and the election of a new president, we were at loose ends. Gary's Forest Service contacts (who were lucky to get on as permanent employees prior to "the freeze!") told him that they were planning on contracting out surveys and other work, since they couldn't hire and suggested that he put in a bid.

We ran into each other again and again over that conference weekend, continuing our conversations about job opportunities, contracting and our futures as archaeologists. On the flight back to Sacramento we agreed to get together for one day and write a proposal

or two for the USFS. I drove down to Fair Oaks from Chico, we spent the day pounding out proposals for Tahoe NF and Six Rivers NF on a manual typewriter, and I went back to my food service job in Chico. Three weeks later Gary called me and told me we were awarded one of the jobs; when could we start work?

For the first seven months or so we ran the contracts through Theodoratus Cultural Research (TCR), a small CRM firm dedicated to history and ethnography and owned by Gary's main advisor at Sac State, Dottie Theodoratus. In February 1982 we split from TCR and took steps to legitimize our business partnership. Gary was a golfer even back then and our goal was to find an acronym that fit "PAR," the dream score of every golfer. We filed general partnership papers for "Public Anthropological Research" (PAR) on March 2, 1982 and have been going strong ever since.

When I think back over the 30 years of PAR I realize that several factors contributed to us starting a business in an uncertain economy, in a nation burdened with debt (sound familiar?). Gary and I had an unshakeable belief in ourselves and our skills, and the "no-holding-back" confidence of youth. All

we needed for that first contract were our trowels and compass, a good pair of boots, pencil, clipboard, camping gear and a truck. I never worried about how to buy food or fuel – I just wanted to DO archaeology, anywhere! Many of our early reports and site records were typed in a tent on an old Remington manual typewriter. Today, I still have that passion to learn about the past and am grateful that I have been able to do what I love for so many years.

We have been fortunate to work with many great people through the years, from clients who trusted our work ethic and product to staff who shared our passion for archaeology and our vision of giving back to our profession and the public who pay us to do this wonderful job. So, thanks to all past and present PAR-ites who work so hard to keep our quality up; we know it's hard sometimes. Thanks to our clients who continue to give us work, even when there are plenty of other choices out there. We so appreciate your business. And thanks to our colleagues, families and friends who have stuck by us through thick and thin. It's been a great ride so far and I can't wait to see what tomorrow may bring. ❧

The Folsom Railroad Block Project - Public Participation

By Cindy Baker

Public involvement is always tricky with archaeological projects and the Folsom Railroad Block project was no different. The historic site is a vital part of Folsom's rich railroad history that provides colorful insight into its commercial main street, Sutter Street and the formation of the town itself. While the site proved to be rich with archaeological data, there were two issues that made it difficult and challenging for site visits. First, there were few distinct foundations that offered the general public a clear understanding of what they were seeing. Second, work was spread out over a large active construction site full of heavy equipment in operation.



Folsom Jail House Foundation at the Chamber

PAR coordinated with the City of Folsom, Folsom Historical Society, Historic Preservation League, Folsom-El Dorado-Sacramento Railroad Association and the Sacramento Archaeological Society to offer public participation opportunities. The City was cooperative and supportive and allowed PAR to set up a lab in a building onsite, yet out of the way of construction. Working with the local history groups, volunteers came forward to help wash and sort artifacts, as well as begin the basic description and cataloging effort under the guidance of trained archaeologists. This effort had the added benefit of saving the City and PAR hundreds of work hours. Media interest included a visit from the local newspaper and a television news crew, which also helped spur more public involvement.

Another opportunity presented itself when the foundations of the original

granite jail were located under the parking lot of the Folsom Chamber of Commerce. After recording the foundations, the granite blocks were slated to be hauled away as debris. Volunteers quickly responded to a call to pick up representative examples that they could use as unique raffle items in the future.

Archaeologists gain knowledge about our past through scientific research and excavations. Preserving that history and coming to understand your own is one of the benefits of such participation to the general public. Folsom residents now have a deeper understanding of their own rich history as a result of their involvement on this project. ✂

Completed Project Notes

➡ PAR continued working for the US Army Reserve, 63 Regional Support Command in 2011, expanding our company experience base into Texas. PAR surveyed and evaluated USAR facilities in Waco, McAllen, and Midway, Texas. While none of the facilities met National Register criteria, PAR staff decided that Austin had one of the best airports to wile away hours between flights. The live band, music store in the terminal, Texas-style gift shops (complete with shelves of hot sauce!) and replicas of historic maps made the layover at the airport memorable.

➡ PAR, teamed with Far Western, has been working for the last few months on preparation of Historic Property Treatment Plans for the Drum-Spaulding and Yuba-Bear Hydroelectric Systems. Both systems stretch from the crest of the Sierra to the edge of the Sacramento Valley floor and contain hundreds of incredible built environment, ethnographic and archaeological resources. Working under contract to HDR Engineering, Inc. for PG&E and Nevada Irrigation District, these documents are planned to guide evaluation and treatment work on the two systems for years to come.

➡ PAR's Senior Historian, Cindy Baker, is actively working on an evaluation of the Rubicon Trail for the El Dorado National Forest, under PAR's on-call master contract with the USFS. Cindy's work includes a combination of archival research at numerous repositories throughout northern

California, oral interviews with members of various jeep clubs who use the trail, and evaluation of the trail in light of its recreational history. One component of the project focuses on overlaying field data gathered with GPS units by the USFS, historical maps information, and other data into an interactive GIS program for use by the USFS.

➡ PAR has been fortunate to continue working with PG&E staff throughout California. Since the last newsletter we have worked on projects in 14 counties throughout northern and central California. Our work has included evaluations of substations and transmission lines, bridges and roads, dams and canals. Archaeological work includes surveys of wood poles slated for replacement throughout the PG&E service area, testing of several dam tender residential sites and a construction camp, trash scatters and Native American coordination. We have also assisted PG&E in their management obligations, preparing numerous Findings of Effect, Memorandum of Agreements, Treatment Plans, and HABS/HAER documentation for numerous projects.

➡ As part of the Yuba-Bear Hydroelectric System relicensing work, PAR's Senior Prehistoric Archaeologist, John Dougherty, analyzed lithic material from two sites near Colfax, California. John's work was used by HDR Engineering, Inc. in evaluating the two sites for the National Register of Historic Places.

➡ PAR staff returned to the redwoods of Del Norte County in August of 2011 to continue work at the Zopfi Homestead site on Redwood National and State Park property at Jedediah Smith Park. The Zopfi family emigrated from Switzerland and settled on the property around 1907, eking out a living by farming, raising stock, working on road construction and cutting redwoods for shake production. The excavations identified the intact foundation of a small smokehouse, used by the Zopfi's to smoke and preserve fish, shellfish and meat, a workshop area with handmade tools, evidence of automobile repairs, and a sewing machine; and evidence of the barn (door hardware, a spur, horse tack). Results of PAR's work will be used by the RNSP in planning future campground sites and facilities. ✂

Environmental Planning Department

By James Gary Maniery

➤ Environmental work continued on several different transportation projects in 2011. Although we did not actually conduct any studies in Tacoma, Washington at Chambers Bay, we hope you enjoy the short article that appears in this newsletter issue. Chambers Bay is a great place to visit, views of Puget Sound are astounding, and the golf is a true test. Below are brief synopses of projects we completed in 2011, or that are currently in progress.

➤ We successfully completed the R Street Market Plaza, an infrastructure challenge to create a sense of shared space between pedestrians and vehicular traffic in mid-town Sacramento. This was a great project to work on as it is only a five minute walk from our office on 21st Street. The section of R Street is located in a historic corridor and the project was partially funded with federal money, thus it was subject to Section 106 of the National Historic Preservation Act. Our cultural department under Mary's direction had a significant role on this planning job and completed various documents to satisfy Caltrans and the State Historic Preservation Office, including evaluating and recording the old Crystal Ice facility. The project was concluded last year and is now in its design phase.

➤ Further west along R Street between 10th and 13th streets in the vicinity of the landmark Fox and Goose restaurant, construction work concluded on a pedestrian friendly street improvement project. Our office completed the environmental document for this project two years ago, but was involved in monitoring for archaeological deposits during the 2011 construction phase. In December of last year, a City celebration was held and this section of the historic R Street corridor was officially opened with the lighting of a neon arc that crosses the street at the Fox and Goose restaurant (see insert to right on this page).

➤ PAR assisted the County of Nevada, Department of Transportation in 2011,

completing three biology task orders involving sensitive bird surveys, mitigation monitoring and cultural resources investigations. All three projects were related to roadway improvement and involved working with Caltrans District 03 staff. Our thanks go out to Dr. Edward "Ted" Beedy, who serves as PAR's consulting biologist for this on-call services contract.

➤ The Folsom Boulevard Widening/Ramona Avenue Extension project, located on the eastern edge of the City of Sacramento, will enter its fourth year in 2012. This new connection is an important City project that has faced several environmental and engineering challenges. The environmental work has included addressing U.S. Army Corps of Engineers jurisdictional wetlands, endangered fairy shrimp and giant garter snake, air quality conformity and historic property issues. To say the least, there has been continuous coordination needed and persistence to prepare technical studies and gain approval through a variety of regulatory agencies. We anticipate approval of an Environmental Impact Report/Environmental Assessment in 2012. ✂

Chambers Bay, Washington: A Model In Sustainable Planning

By Mary L. Maniery

In 1992 Pierce County, Washington faced an interesting dilemma: what to do with their new 33 million dollar investment - 930 acres of an old gravel and sand quarry along Puget Sound. Their solution - arrived at by a team of land use planners, landscape architects, engineers, and community members - serves as an exemplary model of environmental sustainability.

The mining history of the property began in the early 1890s when the US government selected Pacific Bridge Company to construct three military forts around the entrance of Puget Sound. Pacific Bridge began extracting sand and gravel during their construction efforts. Over the next 100 years subsequent owners continued to extract the gravel deposits. When Pierce County acquired the property in 1992 the mine was the largest single producer of sand and gravel in the nation. Commercial

R Street - Lighting of the Arch

On January 19, 2012 PAR attended the official "lighting of the arch" ceremony at the dedication and completion of the R Street project. PAR began work on the environmental document for R Street in 2006 and stayed involved throughout the life of the project, including monitoring construction efforts and working with the Teichert construction crews to salvage and reuse railroad-related material along the corridor. The project completion represents a legacy of a true community effort, combining the vision and skills of the City of Sacramento, Capital Area Development Agency (CADA), Sacramento Area Council of Governments (SACOG), Mark Thomas and Company (project engineers) and the local business community to improve and develop R Street. The challenge for the project engineers and for PAR's environmental team was to improve, widen and revitalize the street while maintaining the historic commercial district and railroad history of the R Street Corridor. The new arch, railroad-spike shaped bicycle stands, retention of railroad tracks along the street, reuse of the old granite cobbles that once stabilize the tracks at intersections, historic period lighting, and retention of loading docks and sidings work together to modernize the corridor, yet pay tribute to its long history. If you are in Sacramento, visit the Fox and Goose and other local businesses on the corridor and check out the results of five years of hard work by many people! ✂



The lighting of the arch, January 2012

mining continued at the site until 2003, giving the county the time to develop a reclamation plan.



Gravel and Sand Quarry Operation, ca. 1960s
(photo courtesy of ChambersCreekFoundation.org)

The county initially purchased the property for expansion of the Chambers Creek Regional Wastewater Treatment Plant. The property consisted of a series of deep pits anchored by two cathedral ridges of sand. Railroad tracks extended along the water's edge. Concrete frames from the old gravel storage bins and other equipment were abandoned in place at the cessation of mining and represented another obstacle to construction.

Today, Chambers Bay is a multi-use recreational hub that also supports a wastewater treatment plant. In keeping with the goal of sustainability, the treatment plant was recently upgraded and expanded to incorporate a new patented process, named DEMON (de-ammonification) to treat the water. DEMON uses a patented culture of naturally occurring anammox bacteria to effectively remove ammonium and related nitrogen compounds from the industrial wastewater, resulting in a cleaner reclaimed water. Solid waste is treated and converted into fertilizer products, making the plant an efficient and environmentally sound venture. Aside from the treatment plant the park includes numerous walking trails, ranked from easy to moderately difficult, several miles of public beach, an off-leash pet area, playing fields, a meditation labyrinth, and a world-class golf course.

Chambers Bay Golf Course extends over 250 acres of the regional park. The course is one of only a few link courses in the nation (another is Bandon Dunes in Oregon) and was designed as a true links course modeled after courses in Ireland and Scotland. The course is built on sand

with firm surfaces. Because of the past mining use, the site was zoned industrial, allowing greater flexibility in the planning process.

Robert Jones, Jr. used the sand native to the site in his design, filtering and then replacing 1.4 million cubic yards of the material. The ridges of sand from the old quarry operation were left in place, as were some of the pits. Jones incorporated some of the open sand pits into his design, creating a six-acre sand bunker at the 15th hole. The course design incorporates the steep slopes of the old quarry, with holes winding up the sides of the site and then back down. The skeletal frames of the old concrete gravel bins were left in place, lining the sides of the 18th fairway and preserving a sense of history inherent in the site.

In keeping with the County's goal of sustainability, the fairways, roughs and greens were planted in native red fescue, a grass that does not require excess watering. The little water needed is accomplished through use of the reclaimed water produced by the wastewater treatment plant. The quarry pits are filled with natural ground water and were planted with native species to attract a wide variety of birds and other species to the site. Only one tree is on the course, following the design of true links courses in Ireland and Scotland.

At Chambers Bay, golfers walk and are encouraged to hire a local caddie to carry their bags. No electric or fuel-driven carts are allowed. The clubhouse sits at the top of the ridge, overlooking the golf course and Puget Sound. A pier extends into the Sound, providing fishing access to the public, and the Amtrak passenger train still rolls past daily between the water and the edge of the golf course.



Chambers Bay Golf Course, with Puget Sound in the background (photo courtesy of ChambersCreekFoundation.org)

The Chambers Bay Golf Course is truly a municipal golf course with access to the public. Its design accommodates public trails that wind through the course. The clubhouse can be leased for weddings, meetings, or other events. The driving range is adjacent to playing fields. The course is an integral part of the recreational facility and, at a cost of \$70 to \$260 a round (depending on time of year), serves as the primary money-maker for the operation.

It's only been a few years since the course opened but it already operates in the black, with money left over to pay off the cost of its construction. Since its opening in 2007 it has hosted the U.S. Amateur tournament and has been chosen as the site of the 2015 United States Open Championship, a tournament that is projected to attract over 60,000 spectators per day and at least \$140 million dollars into the Chambers Bay/Tacoma area. The

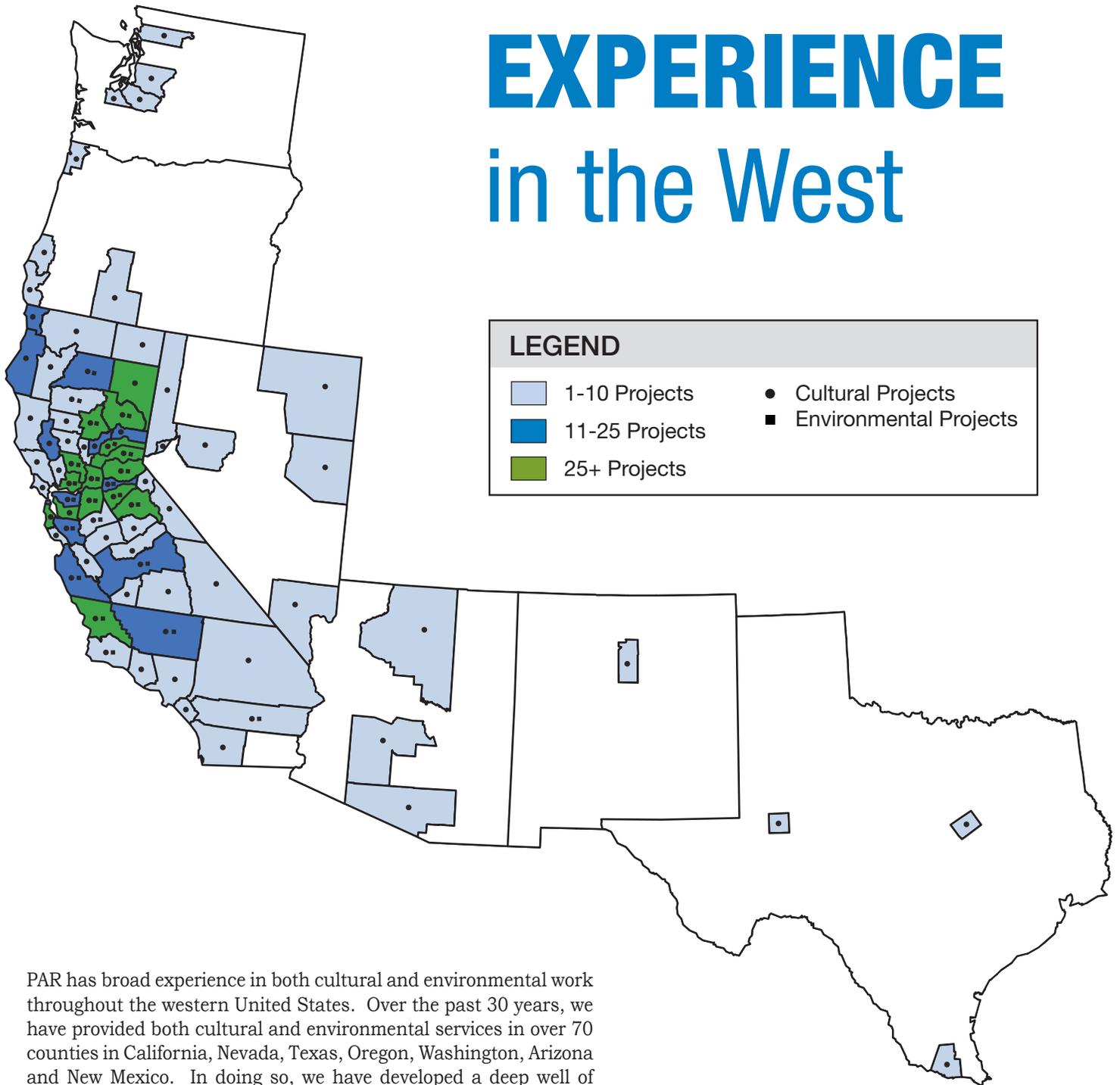


Remnants of the gravel bins, with walking trail in front and the 18th fairway in the background (photo by Amanda McLean)

course already has received international acclaim and Pierce County hopes that its popularity will continue to grow.

Chambers Bay is open to the public, with reduced rates in winter. Be warned, however, that playing Chambers Bay isn't for wimps (just ask Gary)! The trek around the 18 holes leads a golfer up and down the sand dunes of the old quarry for a distance of about 7.25 miles. While the walk can be hard, the views of Puget Sound are spectacular and make the trip up north worthwhile. ✂

PAR'S EXPERIENCE in the West



PAR has broad experience in both cultural and environmental work throughout the western United States. Over the past 30 years, we have provided both cultural and environmental services in over 70 counties in California, Nevada, Texas, Oregon, Washington, Arizona and New Mexico. In doing so, we have developed a deep well of research materials, as well as an understanding of issues facing local areas and the numerous agencies that oversee resources within them. PAR's extensive experience also provides knowledge of both general historical developments and comparative resources that help eliminate costs by reducing research time.

PAR Technical Reports Still Available:

Test Excavations at CA-MEN-2138, Redwood Valley, California.

PAR Environmental Services, Inc.
Technical Report No. 1, 1994

By James Gary Maniery
Cost \$3.00

The Natoma Site, Archaeological Test Excavations at CA-SAC-166.

PAR Environmental Services, Inc.
Technical Report No. 2, 1996

By James Gary Maniery
Cost \$6.00

A Study of the California Red-Legged Frog (*Rana aurora dratonii*) of Butte County, California.

PAR Environmental Services, Inc.
Technical Report No. 3, 1999

By Sean Berry
Cost \$6.75

PAR 2012 UPDATE

EDITOR:
J.G. Maniery

DESIGN:
Heather Rose Design, Los Angeles
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NEWS FLASH ITEMS

- In keeping with PAR's mission of dissemination of data based on our projects and research, Mary L. Maniery is preparing several write-ups based on the Folsom excavations. One article, focusing on the historic roundhouse remains found during the work, is scheduled for publication in the Spring 2012 edition of the Folsom-El Dorado-Sacramento Historic Railroad Association's newsletter. The second short article has been submitted for inclusion in the Society for Historical Archaeology quarterly newsletter.
- PAR Archaeological Intern, Andrea "Ellie" Maniery, was awarded a scholarship from the Sacramento Archaeological Society to help with costs related to attending UNR's field school in the Warner Valley. The stipend helped her buy camping equipment required as part of the field school experience. Ellie gave a talk to the SAS on January 15, 2012, sharing her field school experience with the SAS members and with various PAR staff that attended her talk. Ellie was recently accepted into the master's program in Anthropology, at the University of Nevada, Reno and will start her program this fall. Congratulations!
- PAR was joined over the spring and summer by several archaeological interns and technicians. Ellie Maniery and Jordan Catalano, undergraduate students at University of Nevada, Reno, joined the crew for the Zopfi Homestead work. They also worked on the Folsom excavation assisting in excavations of a blacksmith feature, well, privies, the jail, and roundhouse. While Ellie left to attend a field school in the Warner Valley in mid-summer, Jordan worked through the summer hauling equipment, helping wherever he was needed on site and washing and cataloging artifacts from the Folsom project with the volunteers.
- PAR was fortunate to find Dennis Merritt to work as an on-call archaeological technician in 2011. Dennis brought a great sense of humor, patience, and endurance to the Folsom project and also assisted with other surveys for the company into November. We look forward to continuing our association with Dennis in the future.
- PAR staff will be attending the Association of Environmental Professionals 2012 Annual State Conference May 6-9, 2012. The conference is being held at the Sheraton Grand Hotel in downtown Sacramento. We will have an exhibitor table at the conference that highlights the company's recent historical archaeology project in downtown Folsom, CA and other free advertising literature illustrating our services.
- Monica Nolte will be representing PAR at the 81st annual meeting of the American Association of Physical Anthropologists in Portland, Oregon, April 11-14, 2012. Ms. Nolte will be presenting her thesis research in a poster entitled *Effects of age-at-death, sex, body size and secular change on the biceps enthesis; a study of 3D surface areas*. The work centers on what researchers can learn by studying muscle attachment sites on human bone. Muscle attachment sites have been used in the past to investigate activity pattern but are also affected by biological variables such as age, sex and body size. Ms. Nolte's research pioneers the use of a portable 3D laser scanner as a non-destructive technique to record, analyze and preserve information on human remains.



At last, the mystery of the Mayan calendar revealed.

ANNOUNCEMENTS

NEW EMPLOYEES



Jasmyne Ready
Administration



Stephanie Benway
Associate Archaeologist,
Cultural Resources Department

LOCAL CHARITIES & NON-PROFIT ORGANIZATIONS

PAR continues to support local and regional charities.

- The First Tee of Greater Sacramento
- Juvenile Diabetes Research Foundation International
- Plumas County Charities
- Murer House Foundation
- Heday Books
- Sacramento History Foundation
- University of Idaho, Asian American Collection Center
- Sacramento Archaeological Society
- Society for California Archaeology



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December 31, 2011

James Gary and Mary Maniery
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Dear James and Mary,

Thank you so much for your generous gift of \$500.00. As you requested, your contribution will support our California Indian Publishing Program. Your gift allows us to publish books and nourish ideas whose significance is not reflected in the marketplace, and to support those books and ideas with events that bring together various communities in California.

I'm proud of Heyday's role in deepening California's understanding of itself; I'm delighted by the lives we've touched, the stories we've preserved. While everyone at Heyday works hard, we do so with joy, with bigness of heart, with fullness of imagination, and with intellectual integrity. Thank you for being part of it.

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Kindest Regards,

Malcolm Margolin
Executive Director/Publisher

P.S. Heyday is a 501(c)(3) nonprofit organization. No goods or services were exchanged, and your donation is deductible from taxes to the extent provided for by law.

I can't thank you enough. The money is welcome and needed, but I'm especially honored to know that you value what we do so highly. My deepest gratitude, from outside.

PAR is a woman-owned business that originated in 1982. From its beginnings as a small firm consisting of two enterprising and dedicated archaeologists, PAR has grown into a full service organization. Our staff provides professional expertise in environmental planning and cultural resources investigations. We take great pride in producing high quality, clear and concise reports based upon thorough and objective analysis. We have acquired a well-earned reputation for completing projects on time, within budget and with meticulous attention to detail. The firm's principals have a strong background in the natural and cultural planning issues of California and the West.

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2012 Holiday Party at Morton's Steak House