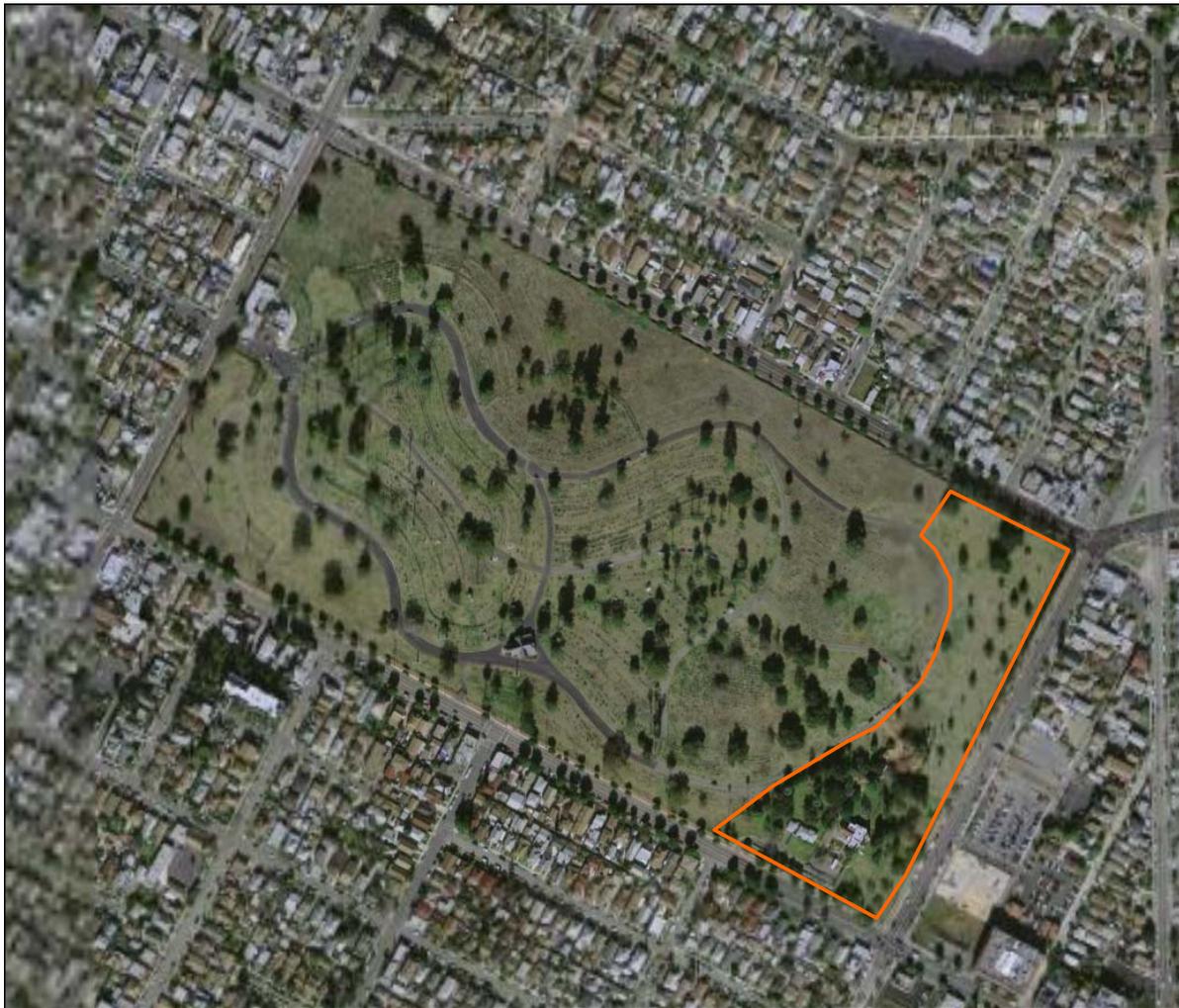


**THE HISTORIC LOS ANGELES CEMETERY
(CA-LAN-3553),
LOS ANGELES METRO GOLD LINE PROJECT,
EAST PORTAL AREA, LOS ANGELES, CA**



Final Technical Report June 2007

Cogstone Resource Management Inc.

**THE HISTORIC LOS ANGELES CEMETERY
(CA-LAN-3553),
LOS ANGELES METRO GOLD LINE PROJECT,
EAST PORTAL AREA, LOS ANGELES, CA**

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Metropolitan Transportation Authority
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Los Angeles, CA

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June 2007

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INFORMATION SHEET

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Sites: P19-003553, P19-003552, P19-172755

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Executive summary

This report of archaeological findings was prepared by Cogstone Resource Management Inc. (Cogstone) for the Metropolitan Transportation Authority of Los Angeles County (Metro) to document mitigation monitoring and data recovery activities in association with specific construction activities widening 1st Street at Lorena as part of the Eastside Light Rail Transit project. The purpose of the archaeological work was to achieve compliance with Section 106 of the National Historic Preservation Act (NHPA).

Metro is performing construction activities on the Metro Gold Line Eastside Extension project, a six-mile light rail transit line with 1.7 miles of twin tunnels. At the eastern end of the tunnel section, just west of Lorena Street, 1st Street is being widened to the north to accommodate a sidewalk, a parking lane, four lanes of travel, the portal to the underground segment of the Metro Gold Line Eastside Extension, the existing jogging path, and retaining wall. No risk factors for this work or the acquisition of the portion of the Los Angeles County Crematorium property to accommodate the widening were identified in the Modified Initial Study/Addendum to the Final Supplemental Environmental Impact Report/Subsequent Environmental Impact Statement approved by the Metro Board in February 2002.

Monitoring of construction demolition project site began on June 17, 2005. Mass grading began on June 22. Work was halted by the archaeological monitor due to discovery of human bone and possible coffin fragments. On June 23, shallow grading was resumed in an adjacent area but halted when human bone in a wooden box was encountered. All construction activities were suspended on June 23, 2005 to permit development of a treatment plan. An initial treatment plan permitted the sediments excavated on June 22 and 23 to be processed for any fragments of human bone present. This review phase occurred from July 11 to August 5, 2005. The cemetery treatment plan called for use of ground-penetrating radar for possible assistance in locating graves. That work plus high-frequency metal detection was performed by GeoVision on August 22 and 23, 2005. The data recovery excavations occurred from August 30 to November 6, 2005.

Following conclusion of data recovery, the artifacts and bones were moved to separate secure laboratories. Cleaning, identification and cataloging of the artifacts took place from mid-November 2005 to March 2006. Subsequently expert consultants identified special artifacts like Asian coins. In April 2006, construction excavations for a new storm drain uncovered more human bone. Both review of stockpiled sediment and brief data recovery excavations followed. Monitoring continued until conclusion of all work in the vicinity. Photography, analysis, revisions and write-up of the artifacts took place periodically from April to August 2006 along with processing of artifacts recovered in 2006. Cleaning, identification, cataloging, photography, measurement and other processing of bone took place from mid-November 2005 to May 2006. Analysis, revisions, inclusion of 2006 finds and write-up of osteology results took place from June to August 2006. Generally, several years are allowed before a report on a project of this magnitude is due. The time frame was accelerated by Metro at the request of the Resident Advisory Committee and Ad Hoc Subcommittee for Reinterment who felt they needed the report to make their recommendation to the Metro Board. The draft report was submitted in late August 2006. The public comment period for the draft report closed October 31, 2006. Peer review comments were received from Metro in April 2007. Revisions and response took place periodically from April to June 2007.

Federally funded projects, such as this one, have a requirement to place collections in a federally-accredited repository. The Fowler Museum of Cultural History at the University of California at Los Angeles will be the repository for all Eastside project archaeological documents including field notes, artifact records, and photographs as they can provide the appropriate environmental conditions to maximize preservation. In addition, they can provide access to all the records in perpetuity for use by other researchers.

Final decisions regarding reinterment of human remains and artifacts have not yet been confirmed by the Metro Board. Appendix I has been added to this final report to contain that information when it becomes available.

In the field, artifacts were bagged according to the Recovery number and recorded on artifact record sheets daily. All artifacts were placed in paper bags and all pertinent information was written on them, including area designation and date of recovery. The artifacts were then sent to the lab where they were cleaned, sorted and identified. This effort required several months of intensive lab work. All artifacts were given unique identification numbers and cataloged according to category and class.

Human remains recovered in the field were wrapped in archival white tissue paper and bagged according to the Recovery number and recorded on record sheets daily. Each bag was labeled with all pertinent information, including area designation and date of recovery. Some burials were removed in segments within their matrix to preserve the integrity of the skeleton and were excavated in the osteology laboratory.

Human bone was cleaned using soft brushes and wooden tools to remove any matrix. All matrix was collected for reburial. After the analysis of each burial recovery, human remains were wrapped in tissue paper and placed in archive boxes. Inventory and measurements of bone were taken, and age, sex, ancestry, stature and pathological conditions were determined whenever possible.

Many research resources were consulted including the Huntington Library, Los Angeles Public Library, Los Angeles County Library, Los Angeles City Archives, the Los Angeles Cemetery Association and present and past employees of the Los Angeles County Crematorium. The burial registers housed at the Los Angeles County Crematorium provided important information.

Numerous artifacts were recovered. The most abundant class was mortuary items such as coffin hardware. The second most abundant class was clothing represented largely by buttons. All other classes were minor by comparison but include personal effects, health and grooming items, and food-related items. American and Chinese grave markers were few in number. Chinese graves had many items constituting religious offerings of respect for the deceased. Prominent were food-related items such as rice bowls.

Recoveries (features) cataloged include burials, disinterments and several instances of medical waste in containers and total 174. The minimum number of individuals represented by skeletal remains in burials or possible burials is 130 [an additional burial is an isolate]. These range from two substantially complete skeletons, probably representing a later grave dug into an earlier grave, to one substantially complete skeleton and an additional tooth of a second individual. The

minimum number of individuals from medical waste containers is 14. Graves lacking bone due to disinterment or disintegration numbered 53.

In addition two cremations were recovered and cataloged along with isolated bones representing a minimum of 34 individuals were recovered [including the isolate burial]. Most of these were limb bones shallowly buried without containers and represent medical waste from the County Hospital and local medical schools. One partial burial dislocated by the initial grading and discovered during the review phase was cataloged as an isolate burial.

Original cemeteries for Los Angeles were at Mission San Gabriel and Plaza Church. The subsequent Catholic graveyard was the original Calvary Cemetery (site of Cathedral High School). A public cemetery developed at Fort Moore Hill (site of Los Angeles High School) and was ringed by private cemeteries for Protestants, Jews, Free Masons, Odd Fellows and others. Later cemeteries were substantially west (Rosedale) or east (Evergreen, Los Angeles County, new Oddfellows, new Calvary, etc.) of downtown.

Research revealed that the human remains located during this project were part of a municipal indigent cemetery with few records relating to ownership and operation. An archaeological site record was filed and the cemetery officially designated as the Historic Los Angeles Cemetery, California Historical Resource P19-003553. The City of Los Angeles received deed to the ten acres of the cemetery in 1879 but thereafter had no involvement in its operation. Evidence demonstrates that the County of Los Angeles operated the cemetery from 1880 forward although the County did not purchase the property until 1917. Burials of indigents are documented in Burial Registers beginning in 1880 and ending in 1922 when the County began to cremate indigents. There appears to have been a sliding scale of charges for people who were not indigent but of limited financial means.

A portion of the cemetery was used by the Chinese community to bury their dead beginning in 1885 and ending in 1922. The vast majority of these Chinese were not indigent, but racist laws of the time prevented them from owning property, even burial plots. We interpolate that the Chinese community requested permission to use a portion of the public cemetery. The Chinese were charged a uniform fee of \$10 for interment and \$5 for disinterment. An archaeological site record was filed for the Chinese Memorial Shrine, California Historical Resource P19-003552, constructed in 1888 and located on the cemetery property along Lorena Street.

Recoveries were classified for analysis as Chinese based on the presence of Chinese artifacts and/or the determination of Asian ancestry of the skeletal remains. Chinese and non-Chinese burials were more similar than different in most regards except for the grave offerings in many Chinese graves. The health analysis demonstrated that the indigent non-Chinese had higher incidence of disease suggesting difficult lives and more exposure to disease and malnutrition than the Chinese population. However, the Chinese had a higher incidence of skeletal markers for childhood illness and malnutrition.

The Historic Los Angeles Cemetery was compared to the Golden Gate Cemetery in San Francisco, California which was also burial ground for indigents, Chinese and medical waste. There were more differences than similarities. No headstones and few grave goods were recovered at the Golden Gate Cemetery although burial bricks, Chinese jewelry and opium paraphernalia were found. The Golden Gate Cemetery coffins were all the same size and jewelry was much more

prevalent, including religious jewelry. Health indicators suggest that the Chinese population at the Historic Los Angeles Cemetery had a better diet than San Francisco Chinese and either of the indigent populations.

The Historic Los Angeles Cemetery was also compared to Chinese cemeteries of Virginiatown, California. Slightly earlier in time, similar artifacts were recovered and suggest parallels in socio-economic status and ritual behavior. The Virginiatown cemeteries were completely disinterred and thus no skeletal comparisons were possible.

It is recommended that the City of Los Angeles file archaeological site records for all the known historic cemeteries within the City limits. It is also recommended that the County of Los Angeles move the priceless, irreplaceable, original minutes of the Board of Supervisors from record storage to the County Library along with the original Burial and Cremation Registers from the Historic Los Angeles Cemetery and that they appropriate funds to make high-quality digital images of these documents that can be used by researchers. The Huntington Library or the Getty would be appropriate contractors for this work.

Chapter one iNTRODUCTION

REPORT PURPOSE

This report of archaeological findings was prepared by Cogstone Resource Management Inc. (Cogstone) for the Metropolitan Transportation Authority of Los Angeles County (Metro) to document mitigation monitoring and data recovery activities in association with specific construction activities widening 1st Street at Lorena as part of the Eastside Light Rail Transit project. The purpose of the archaeological work was to achieve compliance with Section 106 of the National Historic Preservation Act (NHPA) and associated federal law.

PROJECT DESCRIPTION

Metro is performing construction activities on the Metro Gold Line Eastside Extension project, a six-mile light rail transit line with 1.7 miles of twin tunnels in eastern portion of the City of Los Angeles (Figure 1.1). At the eastern end of the tunnel section, just west of Lorena Street, 1st Street is being widened to the north to accommodate a sidewalk, a parking lane, four lanes of travel, the portal to the underground segment of the Metro Gold Line Eastside Extension, the existing jogging path, and retaining wall (Figure 1.2). This work and the acquisition of the portion of the Los Angeles County Crematorium property to accommodate the widening was included in the Modified Initial Study/Addendum to the Final Supplemental Environmental Impact Report/Subsequent Environmental Impact Statement (State Clearinghouse Number 1999081061) approved by the Metro Board in February 2002.

DISCOVERIES DURING CONSTRUCTION

The Cultural Resources Mitigation and Monitoring Plan prepared for the Eastside project (Glenn and Gust) provided for cultural resources monitoring in all sensitive areas. The principal investigator determined that demolition of a driveway and excavations along 1st Street on property obtained from the County of Los Angeles Crematorium required full-time monitoring. Demolition occurred without significant historic resources being impacted. However, human remains were encountered the first day of mass grading. Limited work proceeded until a possible coffin was revealed. Construction was halted and the feature explored by a team of archaeologists. This field work, in conjunction with research, determined the presence of a historic indigent cemetery within the project work area. As required by the Cultural Resources Mitigation and Monitoring Plan, construction work was suspended for development of an archaeological treatment plan for the potential resources. After approval data recovery was performed. This was followed by extensive laboratory work, identification and analysis culminating in this Final Report.

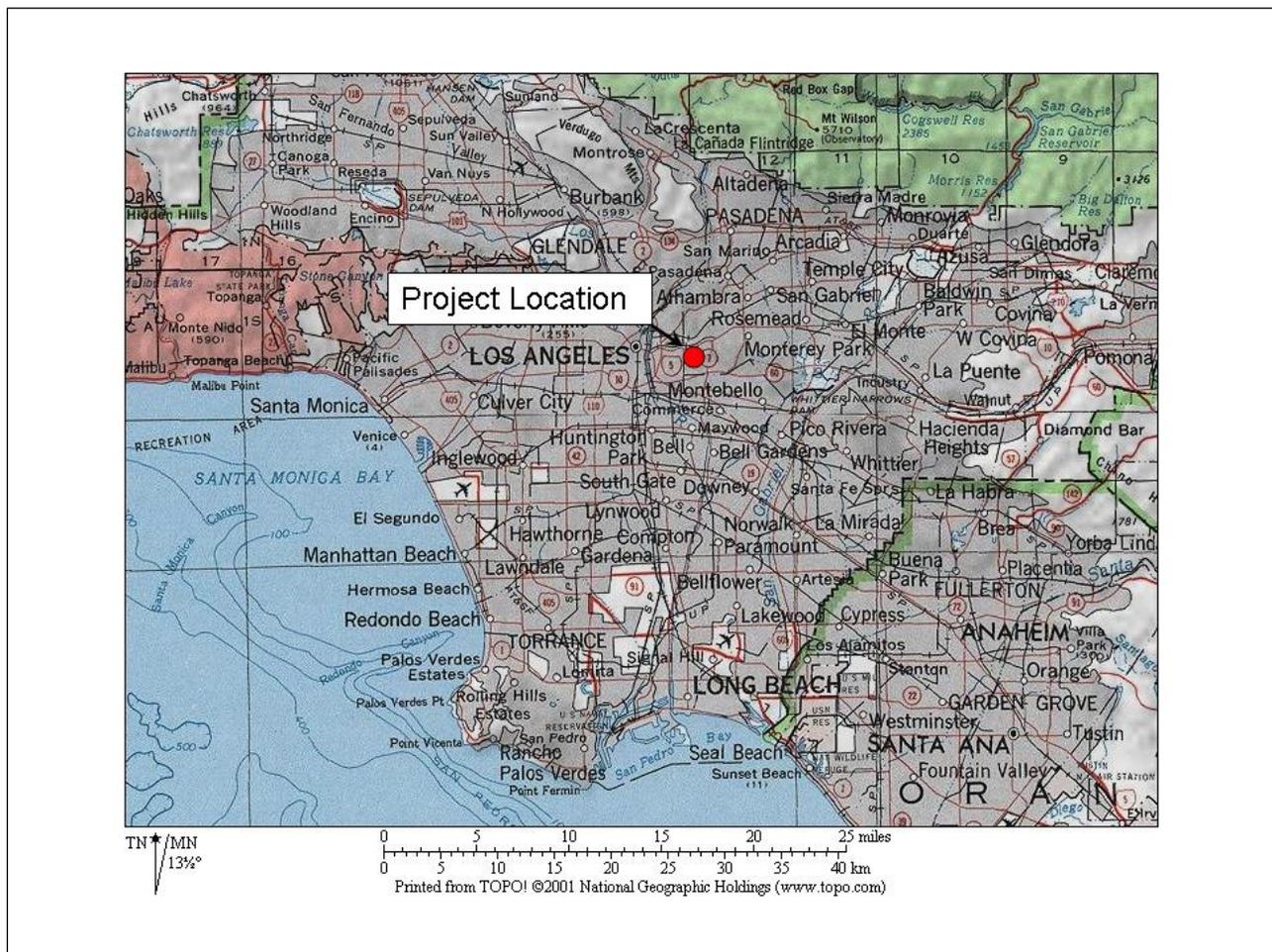


Figure 1.1. Project Vicinity Map

PROJECT SCHEDULE

Monitoring of construction demolition project site began on June 17, 2005. Mass grading began on June 22. Work was halted by the archaeological monitor due to discovery of human bone and possible coffin fragments. On June 23, shallow grading was resumed in an adjacent area but halted when human bone in a wooden box was encountered. All construction activities were suspended on June 23, 2005 to permit development of a treatment plan. An initial treatment plan permitted the sediments excavated on June 22 and 23 to be processed for any fragments of human bone present. This review phase occurred from July 11 to August 5, 2005. The cemetery treatment plan called for use of ground-penetrating radar for possible assistance in locating graves. That work plus high-frequency metal detection was performed by GeoVision on August 22 and 23, 2005. The data recovery excavations occurred from August 30 to November 6, 2005.

Following conclusion of data recovery, the artifacts and bones were moved to separate secure laboratories. Cleaning, identification and cataloging of the artifacts took place from mid-November 2005 to March 2006. Subsequently expert consultants identified special artifacts like Asian coins.

In April 2006, construction excavations for a new storm drain uncovered more human bone. Both review of stockpiled sediment and brief data recovery excavations followed. Photography, analysis, revisions and write-up of the artifacts took place periodically from April to August 2006 along with processing of artifacts recovered in 2006. Cleaning, identification, cataloging, photography, measurement and other processing of bone took place from mid-November 2005 to May 2006. Analysis, revisions, inclusion of 2006 finds and write-up of osteology results took place from June to August 2006. Generally, several years are allowed before a report on a project of this magnitude is due. The time frame was accelerated by Metro at the request of the Resident Advisory Committee and Ad Hoc Subcommittee for Reinterment who felt they needed the report to make their recommendation to the Metro Board. The draft report was submitted in late August 2006. The public comment period for the draft report closed October 31, 2006. Peer review comments were received from Metro in April 2007. Revisions and response took place periodically from April to June 2007.

PROJECT PERSONNEL

Cogstone Resource Management Inc. wrote the Cultural Resources Mitigation and Monitoring Plan for the Eastside Gold Line Project, the subsequent Treatment Plan, performed the monitoring, testing, data recovery, laboratory analysis, and wrote this report. In addition, Cogstone provided presentations, artifact displays and other services at the request of Metro.

Sherri Gust, a Registered Professional Archaeologist with more than 28 years of experience in California, was the Principal Investigator and Project Manager. Gust directed all phases of the work and was the primary author of all project documents. Working under her supervision, the important project personnel were Field Director Armando Abeyta, Field Supervisor Albert Knight, Lab Supervisor Amy Glover and Osteologists Kelly Houck and Marina Adame. Armando Abeyta directed the field work and the subsequent paperwork, did preliminary mapping, wrote portions of the Field Methods and the field notes portion of Results. Albert Knight performed the initial monitoring, supervised the bone recovery from the first day of grading until the end of the review phase, wrote up those field activities and was integral to the data recovery efforts. Amy Glover ran the field lab, helped excavate, supervised all artifact laboratory work, performed analysis of most artifacts, wrote the majority of the Artifact Methods and Grave Things chapters plus the artifact portions of the Results and Comparisons. She also contributed to the American Death Rituals and Indigent Burial sections. Kelly Houck helped excavate, served as field osteologist, performed osteological analysis and wrote the Osteology Methods, the osteology portions of the Results and Comparisons plus part of Here Lies. Marina Adame helped excavate, served as field osteologist, performed osteological analysis, analyzed the isolates and wrote a draft of the isolate bone section. Michael Mirro created the cemetery maps and the subsequent analysis maps. A complete list of Cogstone personnel involved in the project and their qualifications is provided (Appendix A).

Special assistance was provided by consultants. Alexander Akin, Ph. D. candidate, East Asian Languages & Civilizations, Harvard University, translated written Chinese on artifacts. Ambrose Leong, professional translator, verified the translations for the Ad Hoc Subcommittee for Reinterment. Andrew Madsen, M.A. Anthropology, provided information about the unique teapot recovered. Marjorie Akin, Ph. D. Anthropology, identified the Asian coins recovered.

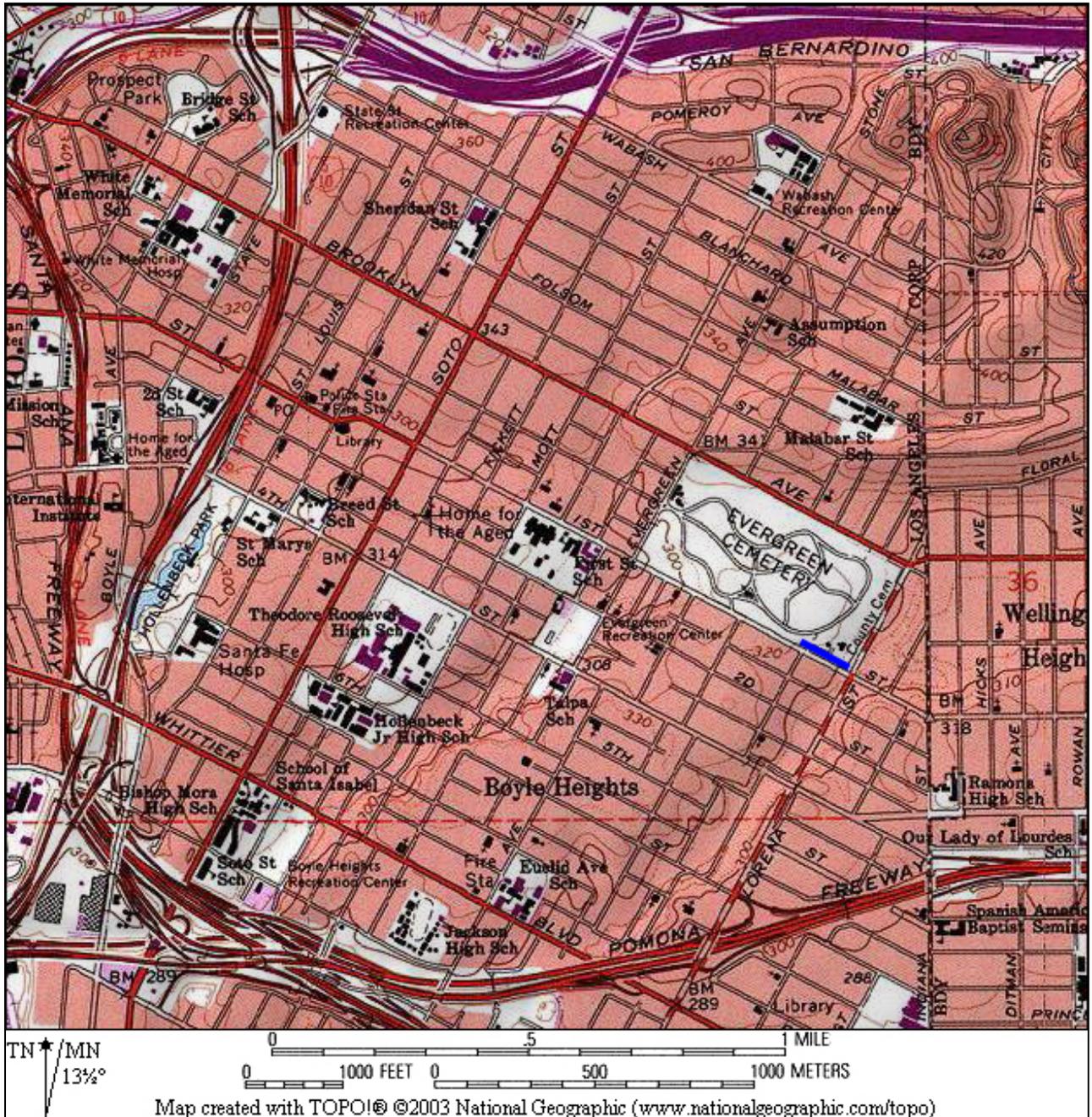


Figure 1.2. Project Area Map

ACKNOWLEDGEMENTS

Cogstone acknowledges the invaluable assistance of Metro Environmental Compliance Manger Carl Ripaldi throughout the project. Marilyn Chogyogi granted access to the crematorium grounds and records that was critical to our work. Craig Garnette of the Los Angeles County Crematorium

graciously assisted us in numerous ways during our field work and research. We thank John Romani of Compass Rose for his willingness to loan us, temporarily, a number of his employees to assist with the data recovery. Peter Messick of Greenwood and Associates worked with us the final weekend of data recovery. We also thank Paul Chace, Colleen Hamilton, Julia Costello and all the other colleagues who helped in one way or another. Sherri Gust thanks her fellow members of the Chinese Historical Society of Southern California for their interest in, and support for, recognizing and accurately portraying the history of the Chinese section of the cemetery.

COLLECTIONS

Federally funded projects, such as this one, have a requirement to place materials in a federally-accredited repository. This ensures preservation of significant cultural resources in correct conditions with research access. The selected federally-accredited repository is the Fowler Museum of Cultural History at the University of California at Los Angeles. The Fowler will be the repository for all Eastside project archaeological documents including field notes, artifact records, and photographs as they can provide the appropriate environmental conditions to maximize preservation.

The Eastside project has a Resident Advisory Committee that has been charged to make recommendations to the Metro Board on the disposition of the human remains and artifacts. They have created an Ad Hoc Subcommittee for Reinterment. This subcommittee has the responsibility to make recommendations regarding reinterment, disposition of artifacts and a respectful memorial to the Resident Advisory Committee.

The Ad Hoc Subcommittee voted to reinter all human remains and all artifacts. They chose to reinter at the adjacent Evergreen Cemetery. They have also determined that three memorials will be constructed. One will be in or near the original location of the recovered human burials, one will be in or near the reinterment site and a third will be at a landfill where excess sediments from the cemetery site were taken.

In June 2007, the Resident Advisory Committee voted to reinter all remains and artifacts in an area of Evergreen adjacent to the Chinese Memorial Shrine. This is subject to negotiations with the management of Evergreen and approval by the Metro Board.

The Metro Board will make final determinations. Appendix I has been added to this Final Report to provide a place for final documents such as a correspondence between the selected burial markers and the archaeological catalog numbers, a map of the reinterment site, maps of the three selected memorial sites and similar documents.

chapter two methods

FIELD METHODS

INTRODUCTION

The project area was divided into segments based on the work that occurred (Figure 2.1). These were labeled Area A, Area B and Area C. Area D was named as an ungraded, northeasterly portion of Area B. When that area was also graded it was merged with Area B. The last area of work was Area E. Numerous human remains and artifacts were recovered, but portions of the project area were devoid of either.

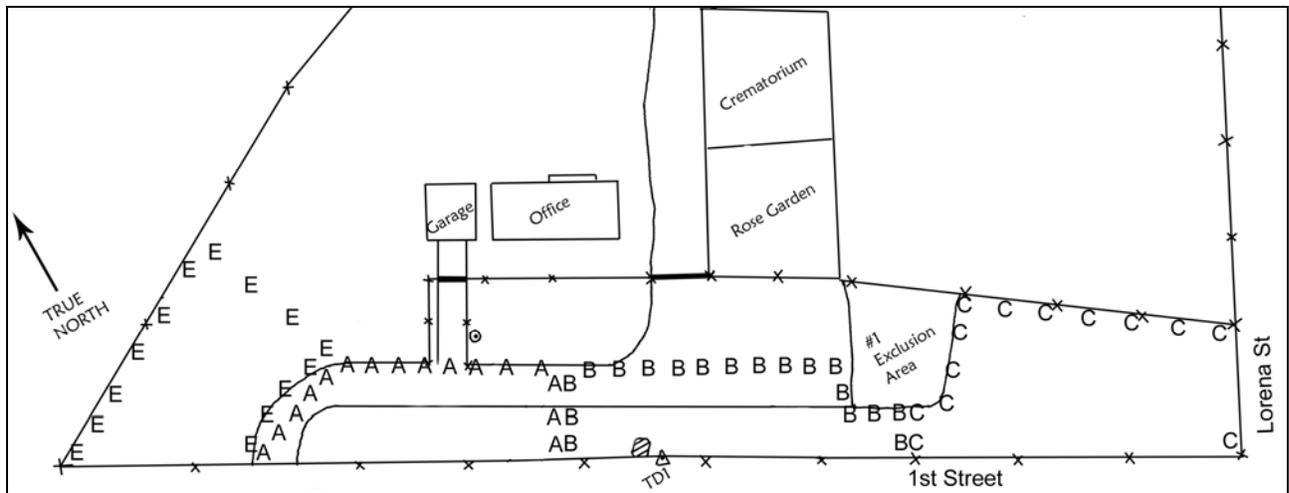


Figure 2.1. Field Map showing Work Areas

INITIAL MONITORING DISCOVERIES AND THE REVIEW PHASE

On June 17, 2005, subsurface work and archaeological monitoring began at the Historic Los Angeles Cemetery with demolition of the old crematorium driveway. On June 22, 2005, Eastside LRT construction crews were excavating underneath the demolished driveway in Area A when human bones were encountered about 10 am. The archaeological monitor observed only isolated limb bones with no containers or indicators of archaeological features. Excavation proceeded with caution and in shallow layers. Bones continued to be uncovered. When wood fragments were

encountered that appeared to be coffin wood, the monitor suspended all work at 1:30 pm. Excavation had occurred to a depth of about 8 feet.

On June 23, 2005 shallow excavation commenced in Area B. The intent was to strip off the overburden soil only. Work progressed to a depth of about three feet before a possible coffin with bones visible inside was revealed (Figure 2.1, small striped square in Area B along 1st St.) and the monitor halted the work. The total work time was less than one hour. Work was then moved to Area C with an agreement that the only work would be stripping the grass off. The grass stripping was performed. A project meeting was called by Metro and work was suspended pending development of a treatment plan and consultation with the Review Advisory Committee.

An initial treatment plan was developed and approved by the Resident Advisory Committee which permitted Cogstone to field a team of archaeologists to recover any additional bone or artifacts from the previously excavated sediments of Areas A and B (Figures 2.2 and 2.3). This work occurred from July 11 to August 5, 2005. Cogstone refers to this work as the Review Phase. As part of this work we tested various methods including wet screening. Most were unsuccessful due to high clay content or were damaging to bone fragments. The maximum recovery method was use of shovels to scoop dirt which was then crumbled a handful at a time.



Figure 2.2. Project overview June 23, 2005



Figure 2.3. Archaeologists review stockpiled soil for bone

FIELD RESEARCH AND DATA RECOVERY EXCAVATIONS

Subsequently, the full treatment plan was approved. The plan called for Cogstone to contract with a firm to perform non-invasive subsurface ground testing in an attempt to determine the location of burials before data recovery proceeded. On August 22 and 23, 2005 GeoVision Geophysical Services performed ground penetrating radar and high resolution metal detection testing over areas A, B, C and D (the limits of the project area at the time). GeoVision produced a report (Appendix B) showing metallic and soil density anomalies both at and below the surface to a depth of 6 feet. Though the metal detection did produce anomalies discovered to be handles, wires, and pipes located inches from the surface, lower subsurface data were not conclusive as to where, and at what depth, recoveries would be encountered. The ground penetrating radar testing shows changes in the soil revealing where soil has been disturbed. In cemeteries grave shafts can often be defined using this method of testing. Much of the topsoil in the project area has been disturbed over time and the ground penetrating radar results did not consistently define recovery placement.

In concert with the treatment plan, Cogstone archaeologists worked closely with Eastside Light Rail Transit constructors' equipment operators and laborers during the Data Recovery Excavations Phase. The project area sediments were extremely hard with a high clay content. The effective and timely scientific location and collection process was the result of the careful management of the available resources, including heavy machinery. Cogstone archaeologists employed multiple techniques and types of equipment during data recovery of the many burials. The crew typically consisted of 8 archaeologists, 2 osteologists and 4 laborers plus equipment operators, surveyors and Metro inspectors.

Nine datum points were installed along 1st Street by Cogstone archaeologists to use as mapping reference points. A Metro survey team shot in all map data and Cogstone archaeologists took backup data using handheld GPS (global positioning satellite) units. Some information was also mapped using compass and tape measure.

Recovery record sheets were used to record type of recovery (whole burial, partial burial, cremation, isolates and empty graves) and location, orientation, body elements represented, grave goods and dimensions. A minimum of three photos were taken for each recovery--upon discovery, in progress, and at the completion of burial recovery. Records and recovered remains were housed in a secure field lab located nearby on the Historic Los Angeles Cemetery grounds.

2005 Data Recovery Excavations

Data recovery began on August 30, 2005 with the investigation and collection of the surface anomalies in the project area reported by GeoVision, followed by exploration of the known recovery in Area B by Cogstone archaeologists. On August 31, 2005 machine excavation was initiated by using a rubber-tired dozer with a toothless 2' bucket, removing 20' sections of soil to sterile in 6" levels beginning in Area B. After two days a larger 4' toothed bucket replaced the 2' bucket to increase speed and effectiveness in the difficult adobe soil. Teams consisting of one to two archaeologists and two laborers joined the machinery operator to find recoveries while another laborer watered the area for dust control. Possible burials were indicated by presence of differently colored soil, wood, human bone, artifacts or a combination thereof (Figure 2.4).



Figure 2.4. Exposed coffin wood fragments with visible bone below to right

A vertical face ~11' high was cut to sterile at the slope where Area A and Area B met to determine stratigraphy over the project area. The stratigraphic section did not find any differentiation within the adobe in the cultural soil, but did conclude that sterile soil existed at approximately 6' below grade. Sterile soil was determined by visual inspection and is defined as sediment devoid of evidence of human activities.

All features encountered were assigned field numbers and explored. Some of these were then determined to consist only of sterile soil. Others contained coffin soils and artifacts but no human bone. About half contained human bone. All artifacts and human bone were collected.

When bone or artifacts were encountered the machinery was halted, the laborers helped to clear away the overburden and helped collect bone and artifacts dislocated by the bucket's sweep while the archaeologist explored the area to determine if a burial was present (Figure 2.5). Sometimes a 1/4" dry screen was used to recover bone fragments. If a possible burial was encountered the area was marked by a stake labeled with flagging tape listing the date and time and recovery record number. Then the bone/artifacts were bagged and recorded in association or as isolates. The heavy machinery grading was resumed in the area or redirected to another part of the project area so that an archaeological team could begin exploration. Wet screening was used on only one recovery (Recovery 109) to find artifacts in matrix associated with a coin purse.

Upon completion of the recovery, a shovel test pit was dug through the base of the coffin to sterile soil to test for double stacking of burials. Once finished, grading was resumed in the area to finish grade while an archaeologist monitored the grading.



Figure 2.5. Area C archaeological exploration with redirected heavy machinery testing

On September 13 and 22, 2005 Metro requested excavations outside of the current project limits to test for anomalies from the GeoVision report. Five test pits were dug north of Area C and two test pits were dug north of Area B. The pits were 10' x 10' in size and dug to sterile (approximately 6' deep). Though burials and artifacts were present in some parts of the test pits, overall the anomaly data proved inconclusive due to the highly disturbed soil at varying depths. The artifacts were recorded, left in situ and buried in place. A week later the northern limits of grading were redefined to points from 5 to 30 feet north of the old limits. The recoveries in these test pits were relocated and subsequently recovered.

The initial method of repositioning the backhoe proved both ineffective and dangerous to archaeological teams conducting recoveries. Also, repositioning the backhoe often dropped loose soil onto nearby recoveries obscuring data. As of September 29, 2005 Cogstone used a new method in which a large track hoe with a 4' toothed bucket worked in 20' swathes parallel to 1st Street, leaving a path cut to grade continuously across the project. Excavation was conducted systematically in 6" levels, west to east, throughout the project area. Monitoring archaeologists defined recoveries continuously in one direction and teams of archaeologists followed behind the track hoe to perform exploration safely without obstructing the path of the heavy equipment. Excavation of Areas A (driveway portion), B (Area D was the temporarily ungraded segment of Area B; once graded it was redefined as Area B), and C was concluded to on October 5, 2005.

Subsequently, Metro determined that Area E also required grading. Work in this area began on October 7, 2005. Track hoe excavation with a 4' toothed bucket began immediately from the 1st

Street wall inward (Figure 2.6). Additional archaeologists and laborers were brought in to expedite the excavations. In addition, Metro engineers were available in the field to ensure that only necessary areas were subjected to grading. Data recovery concluded on November 6, 2005.



Figure 2.6. Area E exploration

2006 Data Recovery Excavations and Monitoring

In 2006 an existing trench was being deepened when bone was encountered and excavation activities were immediately halted by the Metro inspector and the Cogstone monitor. The trench had originally been excavated in September and November of 2005 and had encountered an existing drainage pipe at nearly 6' below grade. No sensitive cultural material was encountered at the time. On April 12, 2006 the trench had standing water from recent rains. When workers excavated deeper for installation of the new pipe, wood from a casket was visible in the side walls of the trench and a number of bones and grave goods were visible in a portion of the sediment dumped by the bucket of the machinery. The monitor was directed to recover all visible bone. The principal investigator responded to a call from the monitor, verified that the bones were human and removed them to a secure laboratory. All stockpile (~15 cubic yards) from the day's earth moving activity was staged 3 yards to the east of the trench and was covered with tarps for archaeological inspection.

The following morning a team of Cogstone archaeologists under the supervision of the field director arrived to evaluate the discovery. Two goals were identified for the discovery. First, the stockpile needed to be thoroughly explored to recover all grave goods and any additional bone not visible on the surface. Second, the trench itself needed to be investigated to define, explore and determine the condition of the recovery.

Cogstone archaeologists used trowels and brushes to sort through the soil and recover bones and grave goods (Figure 2.8). A laborer was assigned to remove processed stockpile sediments to ensure a safe and efficient exploration of the soil. All materials from the stockpile were photographed, labeled, bagged individually, with all bones wrapped in tissue and carefully packed. Materials from the stockpile were classified as isolates.

As the trench itself was a narrow and dangerous area to work in, only one archaeologist performed the initial exploration. Wood from not one, but two coffins in situ were found; one located in the east wall and one in the west wall of the trench. Survey crew recorded the positions of the burials and the stockpiled soil. The recoveries were assigned a number, mapped, photographed and the dimensions explored. The burial in the west wall was in the path of the required excavations. Shoring was placed in the trench and the burial was removed the same day, as rain was expected to make the trench unworkable the following day (Figure 2.7). The only further expansion of the pipe trench was to the south and would not impact burial in the east wall. The decision was made to leave it in place. All further excavation work was monitored full time by Cogstone archaeologists but no additional human bone was encountered.



Figure 2.7. Excavation of recovery in the pipe trench



Figure 2.8. Stockpile exploration

ARTIFACT LABORATORY METHODS

FIELD AND LAB PROCESSING

In the field, artifacts were bagged by provenience (recovery number) and recorded on artifact sheets daily. All artifacts were placed in paper bags and had the following information written on them: project name, project number, date of recovery, area designation, recovery number or isolate and material type. After the bags of artifacts were recorded, they were given bag numbers and sent to the lab. In the lab, artifacts were washed and sorted according to which burial/disinterment they were recovered from or if they were isolates, which work area they were recovered from.

An alphanumeric system was used to identify each artifact. For the features, the first number and letter represents the recovery and area the artifact was recovered from. The second number represents the specific artifact number. For example, the second artifact associated with Recovery 35B is labeled 35B-2. With isolates from the excavation phase for which an area designation was given, the letters stand for Excavation Isolate, the first number represents the specific artifact number and the following letter the area it came from. For example, the fourth excavation isolate associated with Area C is labeled EI4C. With excavation isolates for which there is no provenience, the letters N/P reflect the lack of provenience and the number reflects the specific artifact number. For example, the third artifact not associated with any area is labeled EI3N/P. With isolates from the initial review phase, the letters stand for Review Isolate, the first number represents the specific artifact number and the following letter the area it came from. For example, the fourth review isolate associated with Area B is labeled RI0004B.

ARTIFACT IDENTIFICATION

Artifacts were identified using numerous resources and the experience of project personnel. Many basic kinds of artifacts including buttons, cartridges, ceramics, glass bottles, nails, shoes and Chinese artifacts were identified using IMACS (Utah State Historic Preservation Office 1992). Additional sources of information on Chinese artifacts were Greenwood (1996), photos of Greenwood's finds (University of Southern California a. 2005) and Chattan and Bacchetti (1997). Information on bricks was from Gurke (1987). More information on buttons was obtained from Anonymous authors (2002, 2002) and Cienna (nd). More information on cartridges was taken from Rosenberg and Kvietok (1981) and Anonymous (a. 2006). Ceramic artifact information was obtained from Lockett (1972), Tod (1972, 1976, 1988), Rosenberg and Kvietok (1981), Kovel and Kovel (1986), Lehner (1986), Kowalsky and Kowalsky (1999) and Birks (2004). American coin information was obtained from Collectors Universe (a. 2006). Rubber comb information was from Cienna (nd). Other information on glass bottles was found in Watson (1965), Toulouse (1971), Rosenberg and Kvietok (1981), Fike (1987), Whitten (a. 2005), Anonymous (a. 2006), Lindsey (a. 2006) and Odell (a. 2006). Additional information on nails was obtained from Rosenberg and Kvietok (1981). Information on burial containers was from Habenstein and Lamers (1955), Little et al (1992), Kogon and Mayer (1995), and Allen (2002). Coffin hardware information was from Columbus Coffin Company (1882), Hacker-Norton and Trinkley (1984), Bell (1990), Little et al

(1992), Kogon and Mayer (1995), McKillop (1995), Chattan and Bacchetti (1997) and Bybee (2003).

ARTIFACT CONDITION

At the Historic Los Angeles Cemetery, coffins were found badly decomposed. In the best case, a coffin was present in a condition in which the lid, sideboards and baseboards were observable. The shape of the coffin was discernible and could be measured. However upon recovery the wood fell apart into fragments the largest of which were about eight by four inches. The lids, having collapsed, were especially unsalvageable as they had to be picked apart to recover skeletal remains. In the worst case, coffins were observed to have deteriorated into a grey pulp that left an outline in the soil.

The level of preservation was also low for other materials that individuals may have been interred with. Fragments of fabrics were present in recoveries, but none were large enough to determine if they represented items of clothing. However, the second most abundant artifact class was buttons, implying that clothing was present as opposed to burial shrouds fastened with shroud pins. Over twenty styles of American buttons were present along with the traditional ball button type of Chinese buttons. Further supporting the presence of clothing was the recovery of other clothing fasteners such as suspender clasps and the absence of shroud pins. The two largest fabric pieces were associated with an infant's coffin and a college box. No paper was recovered except a photograph between two pieces of glass and some fragments of newspaper from a well-preserved (and relatively recent) college box.

ARTIFACT CLASSIFICATION

Artifacts were subsequently classified and cataloged according to function (Table 3.1). These functional classes were based on, or directly taken from, Sonoma State University Anthropological Studies Center's classifications for material analysis (Praetzellis et al. 2004:117). This classification system has been adapted to California sites and has a long history of utility and comparability. Category, class and subclass were the three main categories into which each artifact was placed. Other diagnostic information such as material type, pattern name and manufacture date were included wherever possible. A glossary of terminology is appended (Appendix C). The entire artifact catalog is also appended (Appendix D).

Artifacts from the cemetery fell into two categories, mortuary and cultural. Any object that is associated with a coffin, including headstones, hardware and the coffin itself is considered a mortuary artifact. Grave inclusions, items placed in the coffin with the body, and grave offerings, items left outside of the coffin, are considered cultural artifacts. The vast majority of artifacts recovered were considered to be mortuary-related, grave goods or grave offerings.

Intrusive artifacts, all of them isolates, were considered cultural as well, and include items not directly associated with the interment or disinterment of individuals. Items such as household trash from the site of the caretaker's house and other objects deposited long after the excavated area of the Historic Los Angeles Cemetery ceased to be used as a cemetery were considered intrusive.

These were identified primarily by time period (post-dating the cemetery) but also based on archaeological experience with 20th century trash.

Table 2.1. Artifact Catalog Categories

GROUP	CLASS	ITEM EXAMPLES
Activities	Commerce	coins
	Entertainment	gaming pieces, harmonicas
	Firearms	bullets
	Tools	pocket knives, Chinese padlocks
	Reading	newspaper
Domestic	Food Prep/Consumption	rice bowls, teapots
	Food/Food Storage	animal bone, beverage bottles, crocks
	Furnishings	flower pots
Indefinite Use	Misc. Beads	beads w/ more than one original use
	Misc. Closures	closures assoc. w/ unidentified contents
	Misc. Containers	containers w/ unidentified contents
	Misc. Metal Items	hardware w/ more than one original use
Industrial	Machinery	battery
Personal	Accoutrements	coin purse frames, eyeglasses, jewelry
	Clothing	buttons, buckles, hats
	Footwear	shoes
	Grooming/Health	perfume bottles, pharmaceutical vials
	Social Drugs	opium paraphernalia, alcohol bottles
	Toys	marbles
	Bedding	blankets
Mortuary	Hardware	handles, thumbscrews, escutcheons, plaques
	Materials	markers, coffin viewing windows
	Cremation	jars and other storage for cremated human remains
Structural	Hardware	screws, nails
	Materials	tile, insulators
Undefined Use	-	unidentified items (amorphous metal, slag)

TRANSLATION

The inscriptions on Chinese grave markers discussed in this report demonstrate family origins in Toishan or neighboring districts; therefore transliteration of Chinese names in this report is based on the Toishanese dialect of Cantonese. Transcriptions are based on the forms used in the "Index of clan names by villages for Toishan District," compiled by the American Consulate General, Hong Kong, 1963, and supplemented with input by native speaker informants. We have not adopted Hanyu Pinyin romanization, which is based on Mandarin pronunciation.

Chinese names in the burial registers were directly transcribed from death certificates and/or burial permits written by local American doctors, coroners and undertakers, who in most if not all cases were unfamiliar with Chinese. In most cases the name of the deceased was not taken from written documents but constitutes a phonetic interpretation of a spoken name. In addition, Chinese business men commonly had "business names" of Chinese form but easy for Americans to pronounce like Hop Sing while their actual names were different and unrelated. These and other factors make it difficult to match the names on the gravestones with those in the registers.

ARTIFACT LABELING AND PHOTOGRAPHY

Unlike most archaeological sites, no numbers were applied to artifacts, only to containers. After the artifacts were identified and cataloged they were placed back in bags and the identifying information was written both on the outside of the bags and on artifact tags placed inside the bags. The total number of identified specimens (NISP) and minimum number of individuals (MNI) information was also cataloged. Because of the level of disturbance in the cemetery, MNI was determined to be one only if fragments could be cross-mended.

All artifacts were photographed for documentation purposes. Many artifacts were grouped together by burial, separated into mortuary and cultural groups and photographed. Items of significance were photographed separately in detail.

TYPE SPECIFIC PROCESSING

The following is a description of what types of artifacts were recovered under each material type, cleaning procedures for each material. Extremely small fragments of common materials were discarded into buckets of matrix from cleaning the artifacts and returned to the project site.

Metal

Types of metals found included white metal alloys and tin (coffin hardware), bronze, gold and silver (Asian and US coins), ferrous metals (nails) and cupreous (non-ferrous) metals (suspender clasps). Identifiable metal artifacts were washed. Most redundant, amorphous and non-diagnostic fragments were counted, entered into the catalog and discarded. In the case of several burials with multiple fragments of ferrous metal, a representative sample was retained for possible future identification and the rest was discarded. Most coffin nails were badly decomposed and method of manufacture was unidentifiable; these were counted, entered into the catalog and discarded.

Ceramics

Types of ceramics recovered included both Euro-American and Chinese stonewares and porcelains (ale bottles, plates, buttons, rice bowls, teapots and opium pipe bowls) and bricks (burial bricks). Very few Euro-American earthenwares were recovered in contrast to their typical abundance in late 19th and early 20th century archaeological trash deposits. All ceramics were washed for identification. One ceramic fragment smaller than an inch in diameter and with no markings, decoration or unusual qualities was entered into the catalog and discarded.

Glass

Types of glass recovered included bottle glass (alcohol bottles) and plate glass (coffin viewing windows). All glass was washed for identification. Glass fragments smaller than an inch in diameter and with no markings, decoration or unusual qualities were entered into the catalog and discarded.

Faunal

Small amounts of animal bone and shell were recovered. Domestic animals including cow, sheep and chicken were present as food items and as artifacts such as buttons. No shell was directly obvious as food but some was interminate. Faunal remains were dry brushed for identification. No bone or shell was discarded.

Miscellaneous

Miscellaneous materials recovered included wood (coffins), shell (buttons, grave decorations), stone (jewelry, headstones), leather (hats, shoes), fabric (clothing, blankets), gutta-percha (buttons) and vulcanized rubber (buttons, combs). Wood and shell was dry brushed for identification, while the other materials were washed for identification. Leather and fabric were not cleaned. Coffin wood consisted of decomposed fragments and all appeared to be of redwood. Fragments were counted, entered into the catalog and most of them were discarded.

OSTEOLOGY LABORATORY METHODS

INTRODUCTION

Human remains recovered in the field were wrapped in archival white tissue paper and bagged according to the Recovery number and recorded on inventory sheets. Human remains not associated with a specific burial were labeled as isolates by area. Each bag was labeled with the project name, project number, date of recovery, area designation, Recovery number or isolate and material type. Some burials were removed in segments within their matrix to preserve the integrity of the skeleton. These segments were further excavated in the osteology laboratory. All human remains were examined and analyzed in a secure laboratory by Marina Adame and Kelly Houck. A glossary of terminology is appended (Appendix C) as is the osteological catalog (Appendix E).

PREPARATION

Human bone was cleaned using soft brushes and wooden tools to remove any matrix. In the event where wooden tools could not remove hardened matrix, water was used to soften the soil which allowed for removal. All matrix was collected and returned to the project site. After the analysis of each burial recovery, human remains were wrapped in tissue paper and placed in archive boxes. Identifying information was written both on the outside of the boxes and on tags placed inside the boxes. No numbers were written directly on the actual bones per client request.

INVENTORY

Human bone was identified to the most specific level possible using standard human osteology references (Scheuer and Black 2000, White and Folkens 2005). Each recovery was inventoried for the bone elements present, the side of body of the element, and the number of each element, in

order to determine the minimum number of individuals (MNI). Tooth presence and development were recorded using the *Standards for Data Collection from Human Skeletal Remains* [*Standards* hereafter] (Buikstra and Ubelaker 1994).

MEASUREMENTS

Measurements of bone and teeth were collected using the methods described in *Standards*. Eight inch and one meter digital sliding calipers were used for all the measurements and were calibrated between each bone examined. One meter digital sliding calipers were used to take long bone length measurements with one person holding the calipers and the other holding the bone. These calipers have thick jaws allowing the long bones to be wiggled to test for maximum length exactly as is done with an osteometric board. Measurements were taken from the left side as specified in *Standards*, or in their absence, the right side was used. Measurements were not taken if bone was absent, fragmented, or warped.

AGE

Age was determined by the evaluation of specific bones of the skeleton and was limited by the recovery of those bones. Multiple methods of determination are preferred but single methods were used when necessary due to limitations of materials. The ageing methods included external cranial vault suture closure (Buikstra and Ubelaker 1994), dental eruption and tooth development (Scheuer and Black 2000, White and Folkens 2005), dental attrition (Scott 1973), epiphyseal fusion (Buikstra and Ubelaker 1994, Scheuer and Black 2000, White and Folkens 2005), auricular surface phases (Buikstra and Ubelaker 1994, White and Folkens 2005), pubic symphysis phases (Brooks and Suchey 1990, White and Folkens 2005), and sternal rib end phases (Loth and Iscan 1989). It is current professional practice to use the overall size and morphology of bone, and the presence of osteoarthritis at multiple joint surfaces to aid in the determination of age (Dr. Elizabeth Miller, Los Angeles County Coroner Forensic Consultant, Personal Communication, May 2007).

The results of the ageing methods were summarized by assigning each individual an age category described by *Standards*. The age categories used were infant (birth-3 years), child (3-12 years), adolescent (12-20 years), young adult (20-35 years), middle adult (35-50 years), and old adult (>50 years). If the determined age could not be specified by the previous categories, the age categories used were subadult (<20 years), adult (>20 years), or indeterminate.

SEX

Sex was determined using anthroposcopic traits and metric analysis of specific bones of the skeleton. Multiple methods of determination are preferred but single methods were used when necessary due to limitations of materials. The anthroposcopic methods of attributing sex by visual analysis of the skull and pelvis morphology are described in *Standards*. The pelvic morphological traits used in the analysis were the greater sciatic notch, subpubic concavity, ischiopubic ramus of the subpubic region, ventral arc and prearticular sulcus (Buikstra and Ubelaker 1994). If a single one of these traits was used, it is specified, but if multiple traits were used the phrase 'pelvic

morphological traits' will be specified in the text. The cranial morphological traits used were the nuchal crest, mastoid process, supraorbital margin, glabella and the mental eminence (Buikstra and Ubelaker 1994). If some of these traits were used, each is specified, but if multiple traits were used the phrase 'cranial morphological traits' will be specified in the text. The exact traits identified can be found in the appended osteology catalog. The metric methods for attributing sex are standard (Bass 2005). The measurements used in this analysis were the vertical head of the femur and humerus, and the epicondylar breadth of the distal humerus. The robusticity of muscle attachments also aided in the assessment of sex. The individual was assigned to one of the following categories: male, female, or indeterminate.

ANCESTRY

The anthroposcopic method employed is described in Rhine (1990). The anthroposcopic method requires visual observation of the presence, absence, or degree of development of specific skeletal features. The most common traits used in this analysis were the morphology of the nasal aperture, the zygomatics, the dental arcade, and the presence of the metopic suture, shovel-shaped incisors, and Wormian bones. Ancestry determinations which state they are based on nasal morphology indicate that all of the following traits were used: nasal spine, nasal sill, shape and size of the nasal aperture. Multiple methods of determination are preferred but single methods were used when necessary due to limitations of materials. Single indicators do not warrant an indeterminate classification. This reference utilizes racial classification no longer considered appropriate. The categories used by Rhine are Caucasoid, Mongoloid, and American Black. Current professional practice regards race as a cultural construct, not a biological one.

The appropriate biological determination is ancestry. Thus the terminology of Rhine was altered as follows. If the skeleton was determined to be Caucasoid, it was given the classification of Euro-American, which includes individuals of European, American and Hispanic ancestry. Individuals determined to be Mongoloid were classified as Asian. This takes into consideration the fact that this historic cemetery has no skeletal, artifactual or historical evidence of Native American use. If the skeleton was determined to be American Black, it was assumed they were of African American ancestry. No individuals in this study were determined to be solely of African American ancestry. A Mixed category was given to skeletons exhibiting traits from multiple ancestries. Skeletons determined to be of a specific ancestry do not imply they were solely of that ancestry or would have appeared in life as someone with that ancestry. A classification of indeterminate was used when indicators were not present in the skeletal material.

STATURE

The height of the individual was calculated using stature reconstruction formulas described by Trotter (1970) and Jantz (1992). The maximum length of the femur was used in the calculation. If the sex and ancestry of the individual was known, then the appropriate formulas were used for Euro-American males, Euro-American females, Asian males, and Hispanic males. If the sex and ancestry was indeterminate, then stature was calculated using the Euro-American male formula.

PATHOLOGICAL CONDITIONS (SKELETAL AND DENTAL)

All bone and teeth were examined for visually obvious pathological conditions. The most common skeletal pathological conditions were periosteal and endosteal bone formation, bone resorption, osteoarthritis, porotic hyperostosis, cribra orbitalia, and fractures. The description of each condition and the bones involved were documented for all skeletal materials analyzed.

Several of these pathological conditions, periosteal and endosteal bone formation and resorption, are generalized indicators of infection. None of the cases at this site were advanced enough to actually determine the specific pathogen causing the infection. Both cribra orbitalia and porotic hyperostosis are forms of bone resorption caused by iron deficiency anemia. Osteoarthritis and degenerative disc disease are indicators of habitual stress or trauma to the joints of the arms and legs, and the spine, respectively. Healed fractures are evidence of injuries to bone due to accidents or repeat stress.

The most common dental pathological conditions were carious lesions, hypoplasias, abscesses, and extensive wear. The dental conditions were recorded using methods described in *Standards*. Carious lesions, or cavities, are caused by a high carbohydrate diet and poor dental hygiene and often result in antemortem tooth loss. The infection of the tooth caused by the carious lesions can produce an abscess to drain the fluid from the sounding bone. Enamel hypoplasias are developmental defects in the tooth's enamel caused by dietary and nutritional stresses. Extensive dental wear indicates a diet consisting of coarse foods.

RESEARCH

Diligent research was conducted regarding the Historic Los Angeles Cemetery at the following libraries: Los Angeles Public Library (Central, Chinatown, & Boyle Heights), California State University, Los Angeles, East Los Angeles County, Huntington and the University of Southern California. Other resources consulted were Evergreen Cemetery, the City of Los Angeles, the Los Angeles City Archives, the Los Angeles County Clerk and the Southern California Genealogical Society. Individuals contacted were current employees of the Los Angeles County Crematory, Albert Gaskin and Craig Garnette and retired employee Clyde Emerson, Chris Kurzon from Los Angeles County Real Estate and University of Southern California Medical Center Director of Labs and Pathology Marilyn Chogyogi.

chapter three results

Three overall types of remains were found at the cemetery. These are recoveries, including burials, disinterments and other feature, cremated remains and isolates. They are reported in order below.

BURIALS, DISINTERMENTS AND OTHER FEATURES

Human remains were recovered throughout the project area of impact. Field personnel divided the project into labeled areas based on the order of work (Figure 3.1). Area A was machine excavated in its entirety on June 22, 2005 with an archaeological monitor present. Bone was encountered only in the half nearest to Area B. Area B was machine excavated to three feet on June 22 with an archaeological monitor present. Subsequently the remainder of Area B and all of Areas C and E were excavated using both mechanical and manual excavation by a team of Cogstone archaeologists assisted by equipment operators and laborers from Eastside Light Rail Transit Constructors from August 30 to November 6, 2005.

The distribution of recoveries was not continuous (Figures 3.2, 3.3, 3.4). There were portions, especially in Area A, B and C where nothing was recovered at any depth. Features were identified by changes in soil color, including rectangular and hexagonal patches of darkened sediment, presence of wood, bone and artifacts or combinations thereof. Each possible feature was given a field number at the time of discovery. Subsequent excavation sometimes determined that no burial was present (25 instances). Field numbers were assigned according to the order of work so 24 might be in Area C and 25 might be in Area E. This made it very difficult to locate a specific recovery on the map. During preparation of this report, the actual recoveries were renumbered sequentially from west to east across the impact area so that readers would be able to locate them on the maps (Figures 3.2, 3.3, 3.4). The original field numbers were retained in the catalog in addition to the new Catalog Number (aka Recovery Number).

Recoveries (features) cataloged include burials, disinterments and several instances of medical waste in containers and total 174. The minimum number of individuals represented by skeletal remains in burials or possible burials is 130 [an additional burial is an isolate]. These range from two substantially complete skeletons, probably representing a later grave dug into an earlier grave, to one substantially complete skeleton and an additional tooth of a second individual. The minimum number of individuals from medical waste containers is 14. Graves lacking bone due to disinterment or disintegration numbered 53.

Seven recoveries were notable for various reasons. Recovery 44E was represented by a Euroamerican young to middle adult female with a gold filling who was buried with nothing in a coffin with no hardware. Recovery 51E consists of human remains associated with a headstone thus we have a name and, due to Metro's Outreach Program, information from his family.

Recovery 59E

was represented by a Euroamerican young adult male with gold fillings, coins (including a ten dollar gold piece) and short bar handles on the coffin. Recovery 88B was represented by an adult male who was made to fit in the coffin by severing his legs mid-calf. The severed legs were placed near his head. Recovery 158C was a disinterred, Chinese burial (based on a burial brick, Chinese Wen

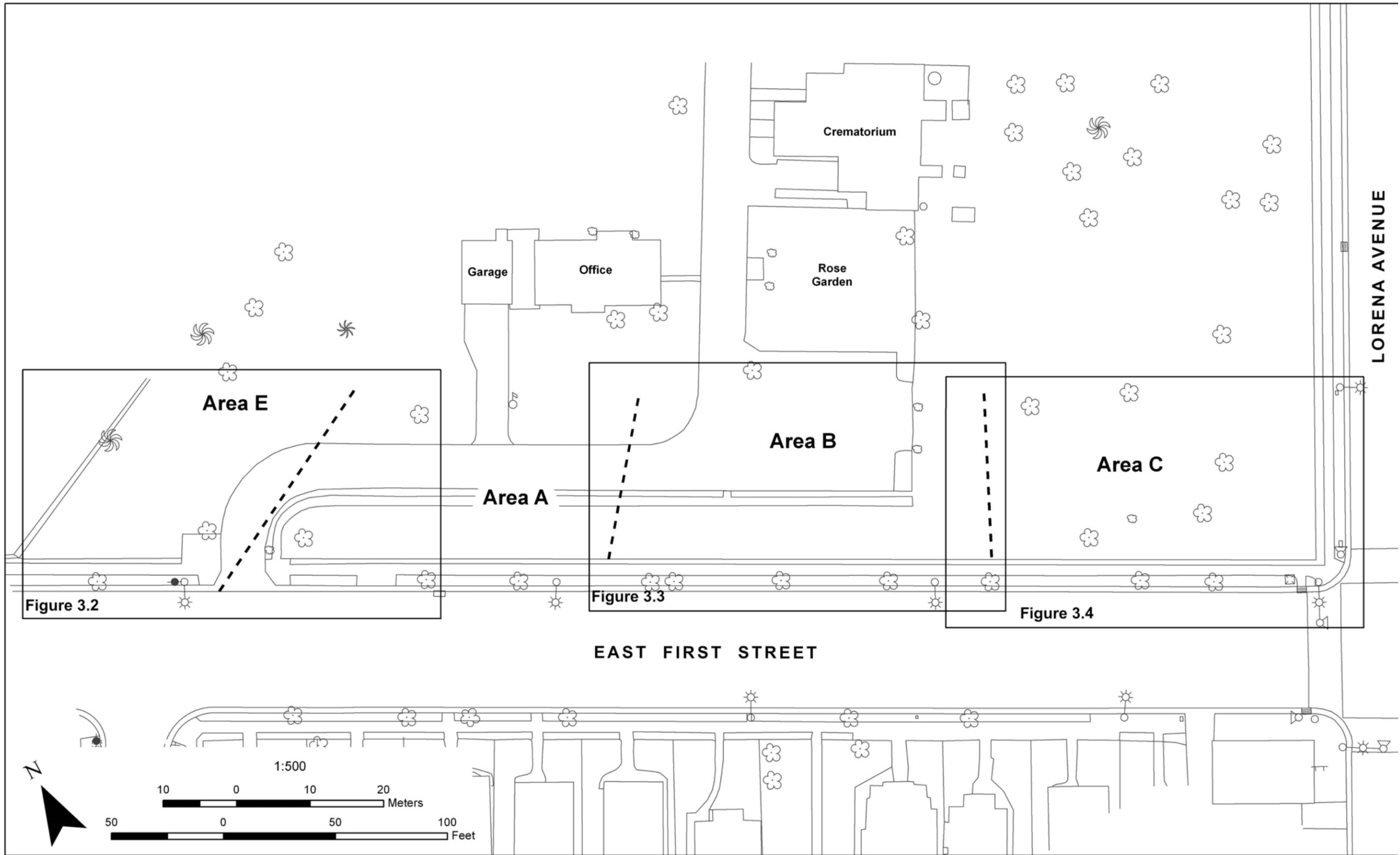


Figure 3.1. Key to Detailed Recovery Maps

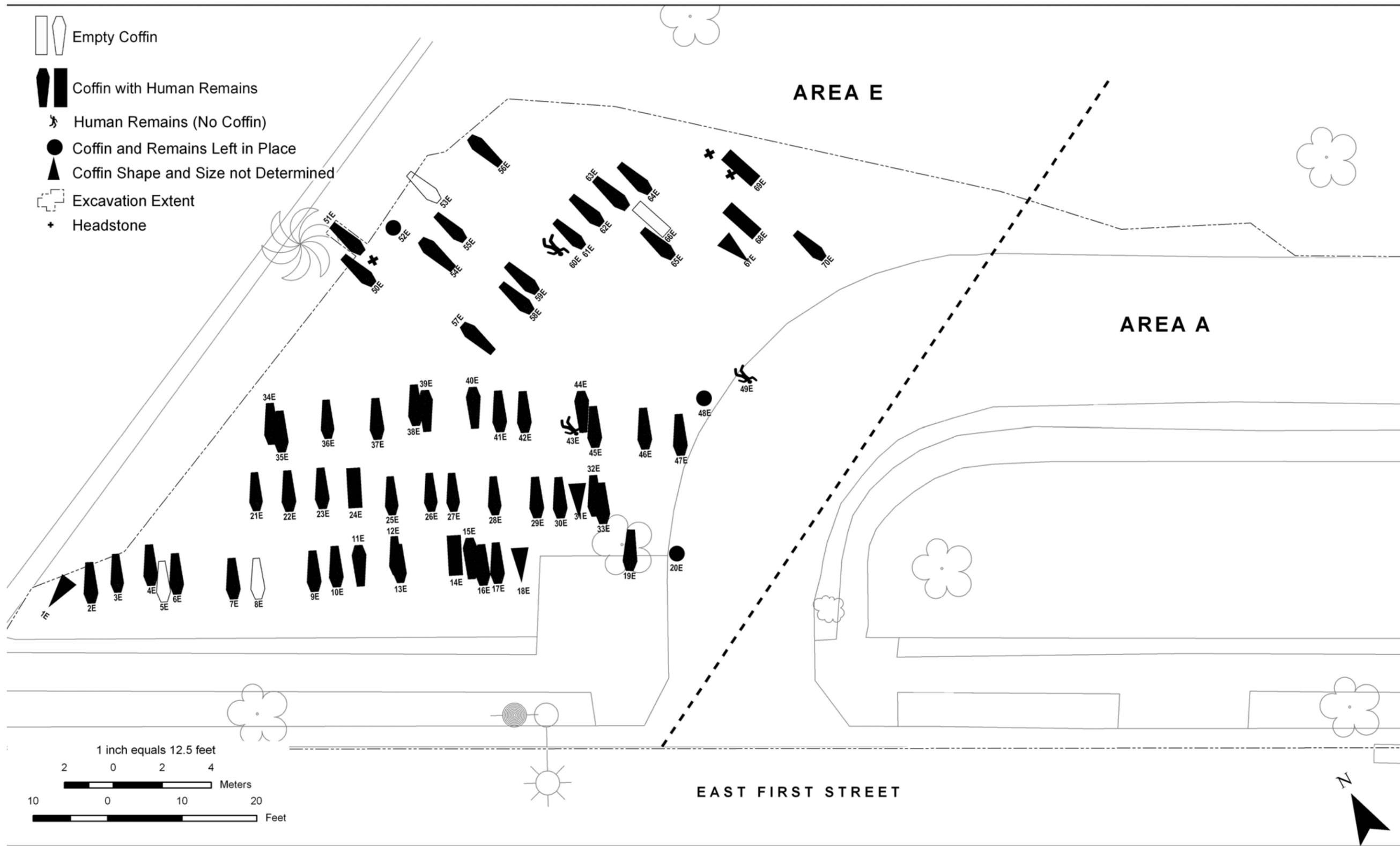


Figure 3.2. Area E Map

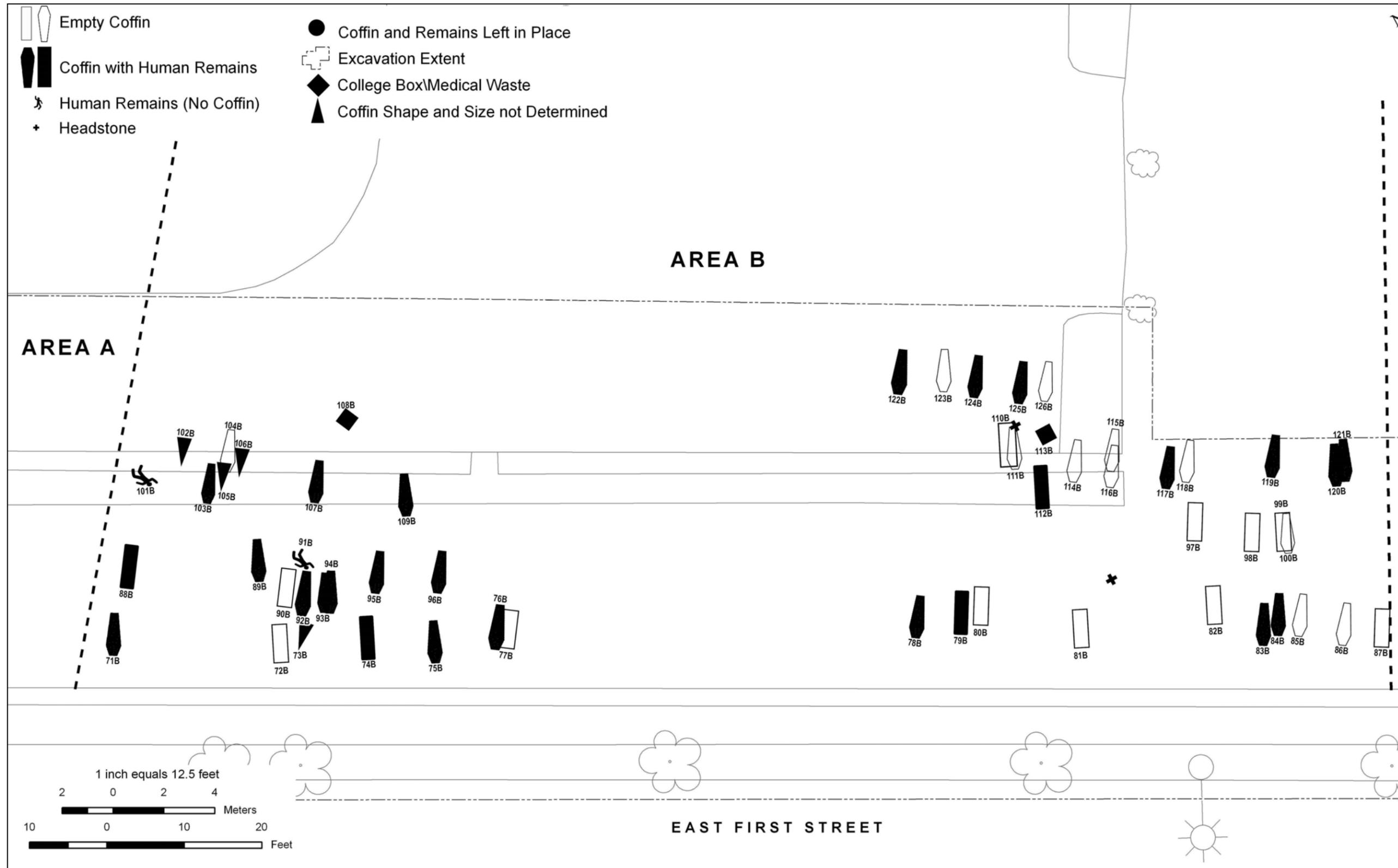


Figure 3.3. Area B Map

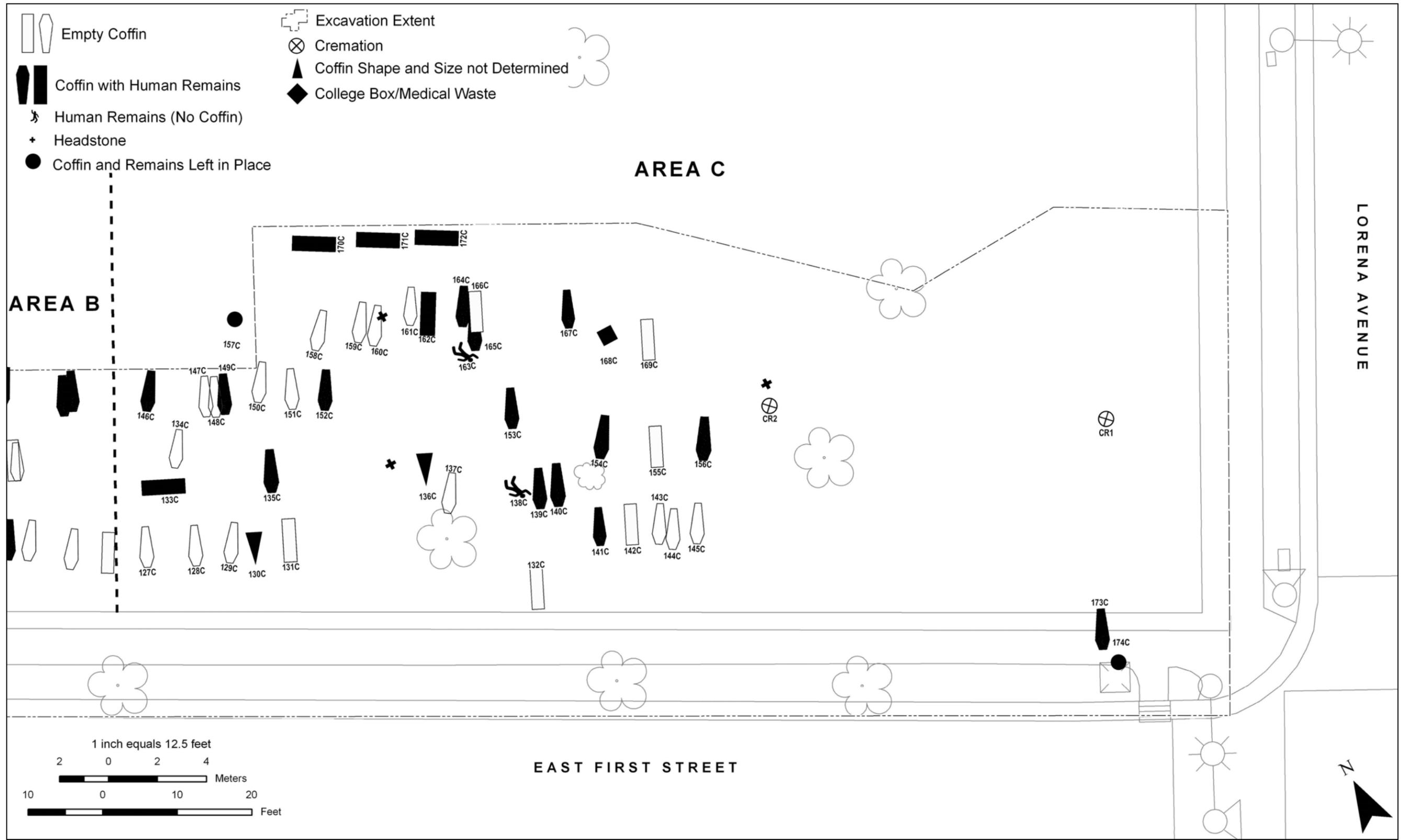


Figure 3.4. Area C Map

and Chinese buttons). The swing bail coffin handles have Independent Order of the Oddfellows symbolism on them and were assembled upside-down, suggesting that they were factory seconds sold inexpensively. Recovery 159C was a disinterred, Chinese burial (based on burial brick fragments and Chinese buttons). Within the larger coffin was a smaller, rectangular coffin that contained fabric with maggot casings but no human remains. Recovery 170C was represented by an Asian, young to middle adult female with possible autopsy marks on her skullcap.

To summarize the very detailed information on each recovery which follows, a table is provided (Table 3.1). Each recovery is then detailed and includes mortuary, cultural and osteological traits. For recoveries with skeletal remains we provide a figure with three components: a “snapshot” of the osteological results, a skeleton drawing with represented bone colored and a table of the skeletal elements represented. Please note that on the skeleton drawings, bones for which side could be distinguished are illustrated on the appropriate side of the body. Bones where side could not be determined are illustrated on the left side for standardization. Also, even when a bone is entirely colored in, it may be present in fragments rather than an actual complete bone.

Table 3.1. Summary of Recoveries

KEY: IND = individual; DETER = determination; SEX M=male, F=female; AGE ad = adult, mad = middle adult, yad = young adult, ado = adolescent; SS = substantial portion of skeleton; PS = partial skeleton; MW = medical waste; sp = skeletal pathology; dp = dental pathology

CAT	AREA	IND	DETER	SEX	AGE	BONE	ANCESTRY	ARTIFACTS	SS	PS	MW	sp	dp	NOTES
1	E		Unknown		ad	skeleton	indeterminate	neutral		1			1	
2	E		Unknown	M	ad	skeleton	indeterminate	neutral	1				1	
3	E	a	Euroamerican	M	yad	skeleton	Euroamerican	neutral	1			1	1	
3	E	b	Unknown	F	mad	skeleton	indeterminate	neutral		1				
4	E		Euroamerican	M	yad	skeleton	Euroamerican	neutral	1			1	1	
5	E		Unknown			none	none	neutral						
6	E	a	Unknown	M	ad	skeleton	indeterminate	neutral	1				1	
6	E	b	Unknown		ad	skeleton	indeterminate	neutral		1				
7	E	a	Unknown	F	yad	skeleton	indeterminate	neutral	1			1	1	
7	E	b	Unknown	M	mad	skeleton	indeterminate	neutral	1			1		
8	E		Unknown			none	none	neutral						
9	E	a	Unknown		mad	skeleton	Mixed	neutral		1		1	1	
9	E	b	Unknown	M	ad	skeleton	indeterminate	neutral		1			1	
10	E		Euroamerican	M	ad	skeleton	Euroamerican	neutral		1			1	
11	E		Chinese	F	ad	skeleton	Asian	neutral		1			1	
12	E		Chinese	M	yad	skeleton	Asian	neutral		1		1	1	
13	E		Unknown		ad	skeleton	indeterminate	neutral			1			
14	E		Euroamerican	F	yad	skeleton	Euroamerican	neutral	1			1	1	
15	E		Unknown	F	ad	skeleton	Mixed	neutral	1				1	
16	E		Euroamerican	F	ado	skeleton	Euroamerican	neutral	1				1	
17	E		Chinese	M	ad	skeleton	Asian	neutral	1			1	1	
18	E		Unknown	F	yad	skeleton	indeterminate	neutral	1					
19	E		Chinese	F	ad	skeleton	Asian	neutral	1				1	
20	E		Unknown			none	none	none						left in place
21	E		Unknown	M	mad	skeleton	indeterminate	neutral	1			1	1	
22	E		Unknown	F	mad	skeleton	indeterminate	neutral	1				1	
23	E		Chinese	M	mad	skeleton	Asian	neutral	1			1	1	
24	E		Chinese	F	mad	skeleton	Asian	neutral	1			1	1	

CAT	AREA	IND	DETER	SEX	AGE	BONE	ANCESTRY	ARTIFACTS	SS	PS	MW	sp	dp	NOTES
25	E		Euroamerican	M	mad	skeleton	Euroamerican	neutral	1			1	1	
26	E		Unknown	F	mad	skeleton	indeterminate	none	1			1	1	
27	E		Chinese	F	ad	skeleton	Asian	neutral	1				1	
28	E		Unknown	F	ad	skeleton	indeterminate	neutral		1			1	
29	E		Unknown	F	ad	skeleton	indeterminate	neutral	1					
30	E	a	Unknown	M	ad	skeleton	indeterminate	neutral	1			1	1	
30	E	b	Unknown	M	ad	skeleton	indeterminate	neutral		1			1	
31	E		Unknown	F	ado	skeleton	indeterminate	neutral	1			1		
32	E		Unknown	M	mad	skeleton	indeterminate	neutral	1			1	1	
33	E		Unknown	M	ad	skeleton	indeterminate	neutral	1			1	1	
34	E		Unknown	F	mad	skeleton	Mixed	neutral	1			1	1	
35	E		Unknown	F	ad	skeleton	indeterminate	neutral		1			1	
36	E		Unknown	F	ad	skeleton	indeterminate	neutral	1			1	1	
37	E		Unknown		ado	skeleton	indeterminate	neutral	1				1	
38	E		Chinese		ad	skeleton	Asian	neutral		1		1		
39	E	a	Unknown	M	mad	skeleton	indeterminate	neutral	1				1	
39	E	b	Unknown			skeleton	indeterminate	neutral		1				
40	E		Chinese		ad	skeleton	Asian	neutral	1					
41	E		Euroamerican	M	ad	skeleton	Euroamerican	neutral	1				1	
42	E		Unknown	M	ad	skeleton	Mixed	neutral	1				1	
43	E		Unknown	M	mad	skeleton	indeterminate	none	1					
44	E		Unknown	F	mad	skeleton	Mixed	neutral	1				1	
45	E		Euroamerican	M	ad	skeleton	Euroamerican	neutral	1			1	1	
46	E		Unknown	M	ad	skeleton	indeterminate	neutral	1			1		
47	E		Unknown			skeleton	indeterminate	neutral	1			1		
48	E		Unknown			none	none	none						left in place
49	E	a	Unknown		ad	skeleton	indeterminate	none		1				
49	E	b	Unknown			skeleton	indeterminate	none		1				
50	E		Unknown	M	mad	skeleton	indeterminate	neutral	1			1	1	
51	E		Unknown	M	ado	skeleton	indeterminate	neutral	1			1		
52	E		Unknown		ad	skeleton	indeterminate	neutral		1		1		
53	E		Unknown			none	none	neutral						left in place
54	E		Unknown			skeleton	indeterminate	neutral		1				
55	E		Unknown		ad	skeleton	indeterminate	neutral		1			1	
56	E		Chinese	M	ad	skeleton	Asian	neutral	1				1	

CAT	AREA	IND	DETER	SEX	AGE	BONE	ANCESTRY	ARTIFACTS	SS	PS	MW	sp	dp	NOTES
57	E		Unknown		ado	skeleton	indeterminate	neutral	1				1	
58	E	a	Unknown		ado	skeleton	indeterminate	neutral	1			1		
58	E	b	Unknown			skeleton	indeterminate	neutral		1				
59	E		Unknown	M	yad	skeleton	indeterminate	neutral	1				1	
60	E		Unknown	M	mad	skeleton	indeterminate	neutral	1					
61	E		Unknown		child	skeleton	indeterminate	neutral		1				
62	E		Euroamerican	F	yad	skeleton	Euroamerican	neutral	1			1	1	
63	E		Euroamerican	F	mad	skeleton	Euroamerican	neutral	1			1	1	
64	E		Unknown	M	ad	skeleton	indeterminate	neutral	1			1	1	
65	E		Unknown	F	mad	skeleton	Mixed	neutral	1			1	1	
66	E		Unknown			none	none	neutral						
67	E		Unknown		ad	skeleton	indeterminate	neutral	1			1		
68	E		Unknown		child	skeleton	indeterminate	neutral		1		1	1	
69	E		Unknown		child	skeleton	indeterminate	neutral		1		1		
70	E		Unknown			skeleton	indeterminate	neutral		1				
71	B		Unknown	F	yad	skeleton	Mixed	neutral	1				1	
72	B		Unknown			none	none	neutral						
73	B		Chinese			skeleton	indeterminate	Chinese		1				
74	B		Chinese			skeleton	indeterminate	Chinese		1				
75	B		Chinese		child	skeleton	Asian	Chinese	1					
76	B	a	Unknown	M	mad	skeleton	indeterminate	neutral	1			1		
76	B	b	Unknown			skeleton	indeterminate	neutral		1				
77	B		Unknown			none	none	none						Coffin frags
78	B		Chinese	M	mad	skeleton	indeterminate	Chinese	1			1	1	
79	B		Chinese		ado	skeleton	indeterminate	Chinese		1				
80	B		Chinese			none	none	Chinese						
81	B		Unknown			none	none	none						Coffin soil only
82	B		Unknown			none	none	neutral						
83	B		Chinese	F	ad	skeleton	Asian	Chinese	1				1	
84	B		Chinese		yad	skeleton	indeterminate	Chinese		1				
85	B		Chinese			none	none	Chinese						
86	B		Unknown			none	none	neutral						
87	B		Chinese			none	none	Chinese						
88	B		Unknown	M	ad	skeleton	indeterminate	neutral		1		1		
89	B		Unknown	M	mad	skeleton	indeterminate	neutral	1			1	1	

CAT	AREA	IND	DETER	SEX	AGE	BONE	ANCESTRY	ARTIFACTS	SS	PS	MW	sp	dp	NOTES
90	B		Unknown			none	none	neutral						
91	B		Euroamerican	F	mad	skeleton	Euroamerican	neutral		1			1	
92	B		Unknown	F	mad	skeleton	Mixed	neutral	1			1	1	
93	B		Unknown		infant	skeleton	indeterminate	neutral		1				
94	B		Chinese		child	skeleton	indeterminate	Chinese	1					
95	B		Unknown	M	yad	skeleton	indeterminate	neutral	1			1	1	
96	B		Euroamerican	F	ado	skeleton	Euroamerican	neutral	1	1			1	
97	B		Unknown			none	none	neutral						
98	B		Chinese			none	none	Chinese						
99	B		Chinese			none	none	Chinese						
100	B		Unknown			none	none	neutral						
101	B	b	Chinese			skeleton	indeterminate	Chinese		1				
101	B	a	Unknown			skeleton	indeterminate	none		1				
102	B		Unknown		ad	skeleton	indeterminate	neutral	1					
103	B		Unknown	M	ad	skeleton	indeterminate	neutral	1				1	
104	B		Unknown			none	none	none						Coffin soil only
105	B		Chinese		ad	skeleton	indeterminate	Chinese		1				
106	B	a	Unknown		ad	skeleton	indeterminate	none		1				
106	B	b	Unknown	M	ad	skeleton	indeterminate	none		1				
107	B		Unknown	M	ad	skeleton	indeterminate	neutral	1				1	
108	B		Unknown			skeleton	indeterminate	neutral			1			medical jar
109	B		Unknown			skeleton	indeterminate	neutral		1				
110	B		Unknown			none	none	neutral						
111	B		Chinese			none	none	Chinese						
112	B		Unknown	M	mad	skeleton	indeterminate	neutral	1			1		
113	B		Unknown			skeleton	indeterminate	neutral			12			college box
114	B		Chinese			none	none	Chinese						
115	B		Unknown			none	none	neutral						
116	B		Chinese			none	none	Chinese						
117	B		Chinese	F	ad	skeleton	Asian	Chinese	1				1	
118	B		Chinese			none	none	Chinese						
119	B		Unknown	F	ado	skeleton	Mixed	neutral	1				1	
120	B		Chinese		ad	skeleton	indeterminate	Chinese	1					
121	B		Unknown			skeleton	indeterminate	none		1				
122	B		Chinese			skeleton	indeterminate	Chinese		1				

CAT	AREA	IND	DETER	SEX	AGE	BONE	ANCESTRY	ARTIFACTS	SS	PS	MW	sp	dp	NOTES
123	B		Chinese			none	none	Chinese						
124	B		Chinese	M	yad	skeleton	Mixed	Chinese	1			1	1	
125	B		Chinese		ad	skeleton	indeterminate	Chinese		1				
126	B		Chinese			none	none	Chinese						
127	C		Chinese			none	none	Chinese						
128	C		Chinese			none	none	Chinese						
129	C		Chinese			none	none	Chinese						
130	C		Chinese	M	ad	skeleton	indeterminate	Chinese		1			1	
131	C		Unknown			none	none	neutral						
132	C		Chinese			none	none	Chinese						
133	C		Unknown	M	ado	skeleton	indeterminate	none	1	1				
134	C		Chinese			none	none	Chinese						
135	C		Chinese	F	ad	skeleton	Asian	Chinese	1					
136	C		Unknown		ad	skeleton	indeterminate	neutral		1				
137	C		Chinese			none	none	Chinese						
138	C		Chinese			skeleton	Asian	Chinese		1				
139	C		Chinese	M	ad	skeleton	indeterminate	Chinese	1				1	
140	C		Chinese		ad	skeleton	indeterminate	Chinese	1				1	
141	C		Chinese	M	ad	skeleton	Asian	neutral		1		1	1	
142	C		Chinese			none	none	Chinese						
143	C		Unknown			none	none	neutral						
144	C		Unknown			none	none	neutral						
145	C		Chinese			none	none	Chinese						
146	C		Chinese		ad	skeleton	indeterminate	Chinese	1					
147	C		Chinese			none	none	Chinese						
148	C		Chinese			none	none	Chinese						
149	C		Chinese	F	ad	skeleton	indeterminate	Chinese	1					
150	C		Chinese			none	none	Chinese						
151	C		Chinese			none	none	Chinese						
152	C		Chinese	F	ad	skeleton	indeterminate	Chinese	1					
153	C		Chinese			skeleton	indeterminate	Chinese		1				
154	C		Unknown			skeleton	indeterminate	none		1				decomposed bone
155	C		Chinese			none	none	Chinese						
156	C		Chinese		ad	skeleton	Asian	Chinese		1			1	
157	C	b	Chinese			none	none	Chinese						

CAT	AREA	IND	DETER	SEX	AGE	BONE	ANCESTRY	ARTIFACTS	SS	PS	MW	sp	dp	NOTES
157	C	a	Unknown			none	none	neutral						
158	C		Chinese			none	none	Chinese						
159	C		Chinese			none	none	Chinese						
160	C		Chinese			none	none	Chinese						
161	C		Unknown			none	none	neutral						Infant/college box
162	C		Unknown			skeleton	indeterminate	neutral		1				Infant/college box
163	C		Unknown	M	ad	skeleton	indeterminate	none	1				1	
164	C		Chinese	M	ad	skeleton	indeterminate	Chinese	1					
165	C		Chinese	M	ad	skeleton	indeterminate	Chinese	1					
166	C		Unknown			none	none	none						Coffin frags
167	C		Chinese		ad	skeleton	indeterminate	Chinese		1				
168	C		Euroamerican	M	ad	skeleton	Euroamerican	neutral			1		1	college box
169	C		Unknown			none	none	neutral						Infant/college box
170	C		Chinese	F	mad	skeleton	Asian	neutral	1			1	1	
171	C		Unknown	M	mad	skeleton	Mixed	neutral	1				1	
172	C		Chinese	F	mad	skeleton	Euroamerican	Chinese	1			1	1	
173	C		Chinese		ad	skeleton	indeterminate	Chinese		1			1	
174	C		Unknown			none	none	neutral						left in place

OVERVIEW OF ARTIFACTS FROM RECOVERIES

A total of 3251 artifacts were found in association with Recoveries. Artifacts of particular interest are discussed in detail in Chapter 5. Most of the artifacts were from the mortuary category, with the personal and indefinite use categories the second and third most numerous, respectively (Table 3.2). Under these categories, metal artifacts occurred most often, reflecting the dominance of coffin hardware. Ceramic and glass artifacts were the next most abundant materials, respectively (Table 3.3).

Table 3.2. Summary of Recovery Artifacts by Category

	Area B	Area C	Area E	Grand Total
Activities	38	80	23	141
Domestic	21	139	6	166
Indefinite	87	95	9	191
Mortuary	457	530	508	1495
Personal	286	395	457	1138
Structural	1	3		4
Undefined	27	63	25	115
Grand Total	918	1305	1028	3251

Table 3.3. Summary of Recovery Artifacts by Material

	Area B	Area C	Area E	Grand Total
Bone	4	2	4	10
Brick		1		1
Celluloid		1		1
Ceramic	87	277	163	527
Composition			6	6
Fabric	10	21	15	46
Fiber	1	1		2
Gauze	2			2
Glass	228	216	56	500
Leather	5	9	28	42
Metal	547	733	701	1981
Paper	2			2
Plastic			2	2
Rubber	5	8	33	46
Shell		1	8	9
Slag	1			1
Stone	3	12		15
Unidentified	9		10	19
Wood	13	23	2	38
(blank)	1			1

	Area B	Area C	Area E	Grand Total
Bone	4	2	4	10
Brick		1		1
Celluloid		1		1
Ceramic	87	277	163	527
Composition			6	6
Fabric	10	21	15	46
Fiber	1	1		2
Gauze	2			2
Glass	228	216	56	500
Leather	5	9	28	42
Metal	547	733	701	1981
Paper	2			2
Plastic			2	2
Rubber	5	8	33	46
Shell		1	8	9
Slag	1			1
Stone	3	12		15
Unidentified	9		10	19
Grand Total	918	1305	1028	3251

METAL

A total of 1968 metal artifacts were recovered from burials (Table 3.4). 62% of these were from the mortuary category but were also from the activities, domestic, indefinite use, personal, structural and undefined use categories. The majority of the metal artifacts consisted of coffin hardware, mainly coffin nails and swing bail handles. Buttons, both Western and Chinese-style, also had a high count, accounting for 14% of all metal recovered from burials.

Table 3.4 Summary of Metal Recovery Artifacts

Item	Area B	Area C	Area E	Grand Total
Asian coin	1			1
Ball button	82	65		147
Bracelet	1			1
Bracket		1		1
Buckle	5	2	10	17
Bullet			5	5
Button	16	15	111	142
Button, garment fragment		2	1	3
Caplifter	2	4	4	10
Cartridge case		1		1
Charm	1			1
Chinese padlock		1		1
Chinese Wen	32	18		50
Coffin corner		2		2
Coffin decoration	3		6	9

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Item	Area B	Area C	Area E	Grand Total
Coffin nail	136	111	236	483
Coffin ornament		7		7
Coffin plaque	2		11	13
Coffin tack head	4		2	6
Coin	1	2	2	5
Coin purse	7	5	21	33
Cotter pin		1		1
Decorative coffin butt			1	1
Decorative coffin lug		7		7
Decorative coffin lug and coffin ornament	4			4
Decorative coffin screw			1	1
Decorative coffin stud	32	65	12	109
Earring		2		2
Escutcheon	8	13	25	46
Eyelet	2			2
Fastener			1	1
Hair pin		1		1
Handle		1		1
Hardware metal artifact	2	12	2	16
Jar		2		2
Leather, rivet			1	1
Liberty Head ten dollar			1	1
Morgan silver dollar			1	1
Opium pipe connector		3		3
Pocket knife		2	1	3
Pot		4		4
Ring			3	3
Rivet	15	26	12	53
Safety pin		27		27
Screw		2		2
Seated Liberty dime	1	13	2	16
Seated Liberty half dollar			9	9
Seated Liberty quarter dollar			2	2
Shield nickel		2		2
Shoe eyelet	3			3
Short bar coffin handle		53	22	75
Slotted coffin screw			2	2
Slotted screw		3		3
Spoon	3	1		4
Suspender buckle			7	7
Suspender clasp		1	10	11
Suspender clasp, garment fragment			1	1
Swing bail coffin handle	84	92	118	294
Swing bail handle		3		3
Teapot		6		6
Thumbscrew	14	12	12	38
Thumbscrew and escutcheon	42	36	21	99
Tin can lid		1		1
Unidentified	20	58	22	100

Item	Area B	Area C	Area E	Grand Total
Utensil handle		1		1
Vietnamese Dong		24		24
Wallet		12		12
Grand Total	528	735	705	1968

CERAMIC

A total of 543 ceramic artifacts were recovered from burials (Table 3.5). 70% of these were from the personal category but were also from the domestic, indefinite use, mortuary and structural categories. The vast majority of the ceramic artifacts consisted of buttons. Chinese rice bowls the next most abundant ceramic artifacts recovered from burials.

Table 3.5. Summary of Ceramic Recovery Artifacts

Item	Area B	Area C	Area E	Grand Total
Brick	1			1
Button	68	144	153	365
Ceramic container	1			1
Cup			1	1
Dish	3	14		17
Dish, condiment		2		2
Dish, flatware	2	4		6
Dish, rice bowl	4	49		53
Jar		5		5
Jar lid		1		1
Marker	3	8		11
Opium pipe bowl		9		9
Pipe			9	9
Storage jar		5		5
Teapot	4	30		34
Teapot handle lug		1		1
Teapot lid		1		1
Unidentified		3		3
Vessel		16		16
Wine bowl	1	1		2
Grand Total	87	293	163	543

GLASS

A total of 500 glass artifacts were recovered from burials (Table 3.6). 41% of these were from the mortuary category but were also from the activities, domestic, indefinite use, personal and undefined use categories. The majority of the glass artifacts consisted of coffin viewing window fragments. Bottle fragments with undefined contents were the next most abundant glass artifacts recovered from burials.

Table 3.6. Summary of Glass Recovery Artifacts

Item	Area B	Area C	Area E	Grand Total
"Chu" gaming piece		12		12
Bead	8			8
Bottle	37	70	7	114
Bottle, alcohol	34	37	2	73
Bottle, beverage		1		1
Bottle, pharmaceutical	6			6
Button			13	13
Chinese vial, pharmaceutical		1		1
Coffin viewing window	102	75	30	207
Decorative glassware		14		14
Eyeglasses			2	2
Glassware	1			1
Jar	1			1
Lidded jar	36			36
Marble	1	1		2
Opium lamp oil reservoir cover		2		2
Photograph		2		2
Unidentified	2	1		3
Vial, pharmaceutical			2	2
Grand Total	228	216	56	500

FAUNAL

A total of 17 animal bone and shell artifacts were recovered from burials (Table 3.7). 41% of these were from the personal category but were also from the domestic and undefined use categories. Some of the bone and shell artifacts consisted of buttons made from these materials.

Table 3.7. Summary of Faunal Recovery Artifacts

Item	B	C	E	Grand Total
Button, bone			3	3
Button, shell			4	4
Cow bone			1	1
Sheep bone	4			4
Shells		1	4	5
Grand Total	4	1	12	17

OTHER MATERIALS

A total of 218 artifacts made from materials other than those described above were recovered from burials (Table 3.8). 72% of these artifacts were from the personal category, and mainly included clothing-related items such as fabric, shoes and buttons. Items also came from the mortuary, indefinite use, activities and undefined use categories.

Table 3.8. Miscellaneous Artifacts from Recoveries

Item	Celluloid	Composition	Fabric	Fiber	Gauze	Leather	Paper	Plastic	Rubber	Slag	Stone	Wood	Grand Total
Bead											2		2
Blanket			6										6
Boot						2							2
Braided string				1									1
Button		6						2	13				21
Case									5				5
Chinese comb												1	1
Coffin wood												37	37
Comb									21				21
Frog (toggle)				1									1
Garment			40										40
Hat						2							2
Knot						2							2
Marker											8		8
Newspaper							2						2
Ornamental											3		3
Pipe stem and												5	5
Shoe						34							34
Strap						12							12
Tobacco pipe												2	2
Tobacco pipe	1												1
Unidentified					2	5				1	1		9
Whetstone											1		1
Grand Total	1	6	46	2	2	57	2	2	39	1	15	45	218

RECOVERY 1E

Mortuary Attributes

Burial Orientation

The burial was oriented with the head to the west and the feet to the east.

Coffin Shape and Size

The remnants of the coffin were heavily impacted, hindering an accurate determination of shape and size.

Hardware

No hardware was recovered.

Cultural Attributes

Clothing

One non-ferrous rivet was recovered.

Other Personal Artifacts

No other personal artifacts were recovered.

Other Inclusions or Offerings

No other inclusions or offerings were recovered.

Relevant Field Notes

The recovery was found higher than the adjacent Recovery 2E and on a different alignment. Recovery 2E was found perpendicular to 1st street. Recovery 1E was aligned with the fence boundary for Evergreen Cemetery.

Summary and Estimated Date of Burial

No artifacts were recovered that could accurately estimate the date of burial. The date of burial is estimated to be between the interment dates of the cemetery, 1879 and 1922.

Osteological Attributes

Inventory and Preservation

This individual is represented by mandible fragments, dentition, ulnae, right radius, right patella, right navicular, right medial cuneiform and three right phalanges (Figure 3.5). The bone is in poor condition.

Age

The age of the individual was determined to be an adult based on the complete eruption of the left maxillary third molar (>21 years).

Sex

Could not be determined due to missing elements.

Stature

Could not be determined due to missing elements.

Ancestry

Could not be determined due to missing elements.

Skeletal Pathology

No pathological conditions were observed on the recovered remains.

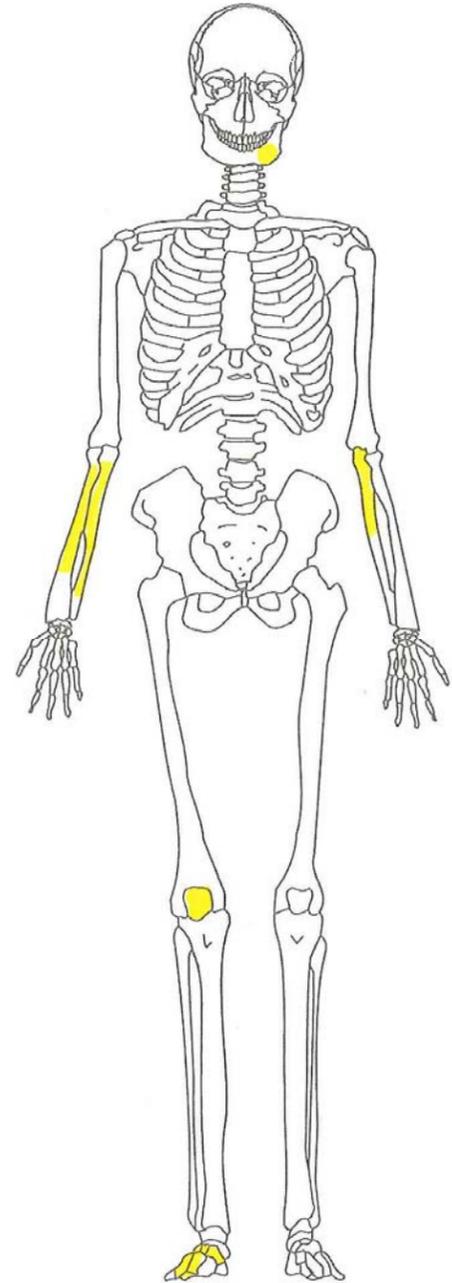
Dental Pathology

The individual exhibited moderate wear on the anterior teeth and extensive wear on the molars. A carious lesion was observed on the mesial interproximal surface of the left maxillary third molar. Linear horizontal hypoplastic grooves were found 2.64 mm from CEJ on the left maxillary first molar and 5.32 mm from CEJ on the left mandibular first incisor.

Osteological Summary for 1E

This individual is represented by dentition and a few various long bone fragments. The individual was determined to be an adult with a caries lesion, moderate to extensive dental wear and hypoplasias.

1E
 Sex: indeterminate
 Age: Adult
 Ancestry: indeterminate
 Height: indeterminate
 Skeletal Pathology: none observed
 Dental Pathology: Hypoplasias, Caries Lesion, Extensive Wear



1E Skeletal Elements Represented												
Element Name	Axial MNE	Left MNE	Right MNE	Indet. MNE	Element Name	Left MNE	Right MNE	Indet. MNE	Element Name	Left MNE	Right MNE	Indet. MNE
Skull					Teeth				capitate			
frontal					upper I1	1			hamate			
parietal					upper I2		1		Metacarpals			
occipital					upper C				Phalanges			
temporal					upper PM1		1		proximal			
sphenoid					upper PM2		1		middle			
zygomatic					upper M1				distal			
maxilla					upper M2				Lower Limb			
palatine					upper M3	1			os coxae			
nasal					lower I1	1			femur			
ethmoid					lower I2		1		tibia			
lacrima					lower C				fibula			
vomer					lower PM1				patella		1	
mandible		1			lower PM2				Ankle			
hyoid					lower M1	1			talus			
Vertebrae					lower M2				calcaneus			
cervical					lower M3				navicular		1	
c1					Upper Limb				medial cun.		1	
c2					clavicle				interm. cun.			
c3-7					scapula				lat.cuneiform			
thoracic					humerus				cuboid			
t1-t12					radius		1		Metatarsals			
lumbar					ulna	1	1		Phalanges		3	
l1-5					Wrist				proximal			
sacral					scaphoid				middle			
s1					lunate				distal			
s2-5					triquetrum							
coccyx					pisiform							
Sternum					trapezium							
Ribs					trapezoid							

Figure 3.5 Skeletal Summary 1E

RECOVERY 2E

Mortuary Attributes

Burial Orientation

The burial was oriented with the head to the southwest and the feet to the northeast.

Coffin Shape and Size

The remnants of the coffin and/or distinct outline of differently colored soil indicated that the coffin was hexagonal in shape. It was 81 inches (205.74 cm) long, 19 inches (48.26 cm) at its maximum width and 9 inches (22.86 cm) at its minimum width.

Hardware

Six fragments of four swing bail handles, one thumbscrew and one escutcheon were recovered.

Cultural Attributes

Clothing

No clothing-related artifacts were recovered.

Other Personal Artifacts

No other personal artifacts were recovered.

Other Inclusions or Offerings

One clear glass bottle fragment with unidentified contents and manufacture was recovered.

Relevant Field Notes

This was the first recovery from the western area of Los Angeles County Cemetery, past the entry gate on 1st Street, where controlled machine excavation began on 10/7/05. Recoveries in this section of the cemetery were removed and then shovel test probes were excavated through the center to determine if there was any “double-stacking.”

Summary and Estimated Date of Burial

Swing bail handles were used between the 1850s and the 1910s, while the interment dates of the cemetery were between 1879 and 1922. The estimated date of burial is between 1879 and 1920.

Osteological Attributes

Inventory and Preservation

This individual is represented by a partial skull, dentition and the approximately 60% of post-cranial skeleton (Figure 3.6). The remains are fragmentary but in good condition.

Age

The age of the individual was determined to be an adult based on the complete eruption of the mandibular third molars (>21 years).

Sex

The sex of the individual was determined to be a possible male based on the vertical diameter of the left femoral head (46.82 mm).

Stature

Could not be determined due to missing elements.

Ancestry

Could not be determined due to missing elements.

Skeletal Pathology

No pathological conditions were observed on the recovered remains.

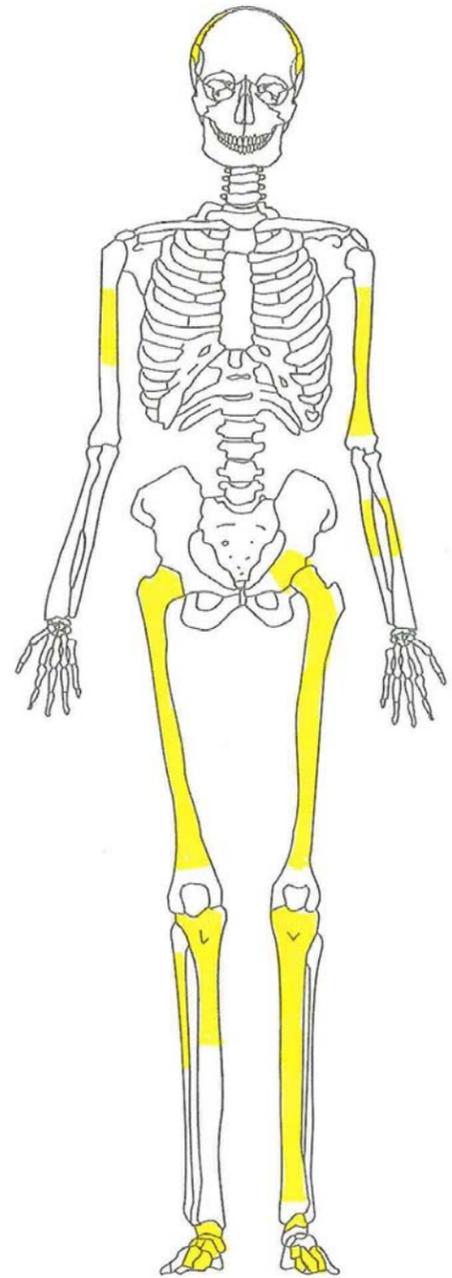
Dental Pathology

The teeth recovered exhibited moderate wear. The individual exhibited hypoplasia in the form of horizontal linear grooves 3.23 mm for CEJ on the right maxillary first molar and 4.19 mm and 1.48 mm from CEJ on the right maxillary canine.

Osteological Summary for 2E

This individual is represented by a partial skull with teeth and upper and lower limb bones. The individual was determined to be a possible male adult with hypoplasias and moderate dental wear.

2E
 Sex: Possible Male
 Age: Adult
 Ancestry: indeterminate
 Height: indeterminate
 Skeletal Pathology: none observed
 Dental Pathology: Hypoplasias



2E Skeletal Elements Represented												
Element Name	Axial MNE	Left MNE	Right MNE	Indet. MNE	Element Name	Left MNE	Right MNE	Indet. MNE	Element Name	Left MNE	Right MNE	Indet. MNE
Skull					Teeth				capitate			
frontal					upper I1	1	1		hamate			
parietal		1	1		upper I2				Metacarpals			
occipital					upper C	1	1		Phalanges			
temporal					upper PM1	1			proximal			
sphenoid					upper PM2	1			middle			
zygomatic					upper M1		1		distal			
maxilla					upper M2				Lower Limb			
palatine					upper M3				os coxae	1		
nasal					lower I1				femur	1	1	
ethmoid					lower I2				tibia	1	1	
lacrimial					lower C	1	1		fibula		1	1
vomer					lower PM1		1		patella			
mandible					lower PM2				Ankle			
hyoid					lower M1				talus	1	1	
Vertebrae					lower M2				calcaneus		1	
cervical					lower M3	1	1		navicular			
c1					Upper Limb				medial cun.			
c2					clavicle				interm. cun.			
c3-7					scapula				lat.cuneiform			
thoracic					humerus	1	1		cuboid			
t1-t12					radius	1			Metatarsals		2	3
lumbar					ulna	1			Phalanges			
l1-5					Wrist				proximal			
sacral					scaphoid				middle			
s1					lunate				distal			
s2-5					triquetrum							
coccyx					pisiform							
Sternum					trapezium							
Ribs					trapezoid							

Figure 3.6 Skeletal Summary 2E

RECOVERY 3E

Mortuary Attributes

Burial Orientation

The burial was oriented with the head to the southwest and the feet to the northeast.

Coffin Shape and Size

The remnants of the coffin and/or distinct outline of differently colored soil indicated that the coffin was hexagonal in shape. It was 75 inches (190.5 cm) long, 18 inches (45.72 cm) at its maximum width and 6 inches (15.24 cm) at its minimum width.

Hardware

Five fragments of four swing bail handles in two different styles and three fragments of two thumbscrews and escutcheons were recovered.

Cultural Attributes

Clothing

Two ceramic four-hole buttons, one dish-style and one pie crust-style, two fragments of one shell, two-hole button and one bone, four-hole button were recovered.

Other Personal Artifacts

No other personal artifacts were recovered.

Other Inclusions or Offerings

One shell fragment and two fragments of an olive-green glass, Hock-shape wine bottle, produced on a turn mold with an applied, mineral-style finish were recovered.

Summary and Estimated Date of Burial

Bottles were produced on turn molds between 1890 and 1915, while Prosser process buttons were manufactured between 1849 and 1910. The estimated date of burial is between 1890 and 1910.

Osteological Attributes 3Ea

Inventory and Preservation

This individual is represented by a complete skull, dentition and 90% of the post-cranial skeleton (Figure 3.7). The skull and mandible are in good condition, but fragmented. Most of the post-cranial skeleton is in good condition, but fragmented.

Age

The age of the individual was determined to be a young adult based on the phase of the sternal rib ends (21-28 years).

Sex

The sex of the individual was determined to be male based on the nuchal crest, mastoid processes, supraorbital margins, glabella, mental eminence and pelvic morphology.

Stature

Could not be determined due to missing elements.

Ancestry

The ancestry of the individual was determined to be Euro-American based on nasal morphology.

Skeletal Pathology

An area of abnormal bone loss was observed at the insertion of the pectoralis major on the right humeral shaft, probably due to a pulled muscle. The affected area was 30.02 mm long by 3.34 mm wide. The bone appears smooth indicating it was in the process of healing at the time of death.

Two areas of abnormal bone loss were observed at the insertion of the costoclavicular ligament on the left and right inferior-medial clavicles, probably due to pulled muscles. The right clavicle exhibited an area of 11.80 mm by 5.78 mm and the left clavicle exhibited an area of 8.6 mm by 3.54 mm.

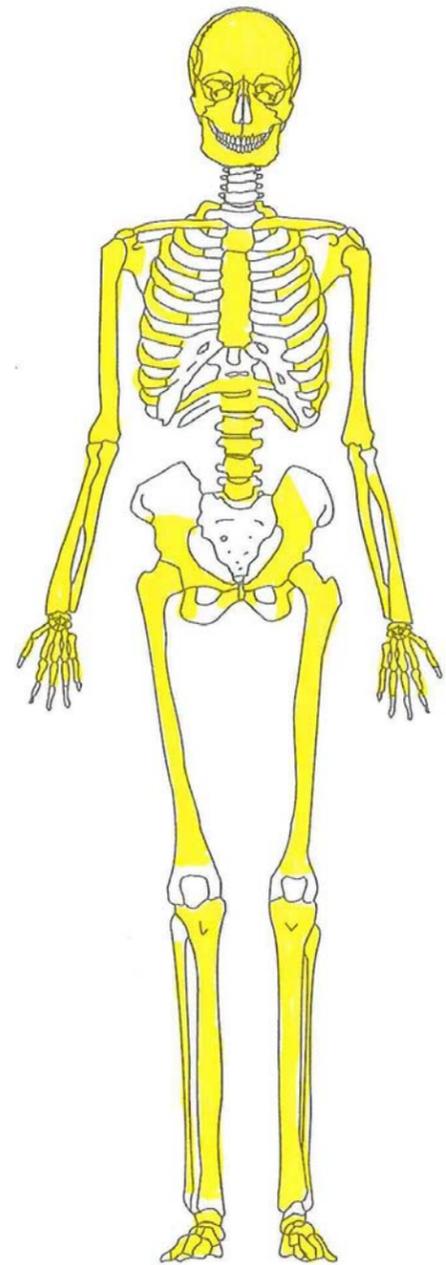
Dental Pathology

The anterior teeth displayed minor dental wear and the molars had moderate wear. The left maxillary first molar, the left and right mandibular first molar, the right mandibular second molar and the right mandibular third molar were lost antemortem. Carious lesions were observed on the mesial interproximal surface and two on the occlusal surface of the right maxillary first molar, on the occlusal surface and distal interproximal surfaces of the left maxillary second molar, on the occlusal surface of the right maxillary second molar, two on the occlusal surface of the right maxillary third molar, two on the occlusal surface and one on the distal interproximal surface of the left mandibular first molar and on the occlusal surface on the left mandibular third molar.

Osteological Summary for 3Ea

This individual was represented by a nearly complete skeleton and determined to be a young adult males of Euro-American ancestry with pulled muscles, antemortem tooth loss, carious lesions and minor to moderate dental wear.

3Ea
 Gender: Male
 Age: Young Adult
 Ancestry: Euro-American
 Height: indeterminate
 Skeletal Pathology: Abnormal Bone Loss
 Dental Pathology: Antemortem Tooth Loss, Carious Lesions



3Ea Skeletal Elements Represented												
Element	Axial	Left	Right	Indet.	Element	Left	Right	Indet.	Element	Left	Right	Indet.
Name	MNE	MNE	MNE	MNE	Name	MNE	MNE	MNE	Name	MNE	MNE	MNE
Skull					Teeth				capitate	1	1	
frontal	1				upper I1	1	1		hamate	1	1	
parietal		1	1		upper I2		1		Metacarpals	5	5	
occipital	1				upper C	1	1		Phalanges			
temporal		1	1		upper PM1	1	1		proximal	5	5	
sphenoid	1				upper PM2	1	1		middle			4
zygomatic		1	1		upper M1		1		distal			1
maxilla		1	1		upper M2	1	1		Lower Limb			
palatine		1	1		upper M3		1		os coxae	1	1	
nasal					lower I1	1	1		femur	1	1	
ethmoid					lower I2	1	1		tibia	1	1	
lacrimial					lower C	1	1		fibula	1	1	
vomer					lower PM1	1	1		patella			
mandible	1				lower PM2	1	1		Ankle			
hyoid	1				lower M1	1			talus	1	1	
Vertebrae					lower M2				calcaneus	1	1	
cervical					lower M3	1			navicular	1	1	
c1	1				Upper Limb				medial cun.	1	1	
c2	1				clavicle	1	1		interm. cun.	1	1	
c3-7	5				scapula	1	1		lat.cuneiform		1	
thoracic					humerus	1	1		cuboid	1	1	
t1-t12	9				radius	1	1		Metatarsals	5	4	
lumbar					ulna	1	1		Phalanges			
l1-5	5				Wrist				proximal			1
sacral					scaphoid	1	1		middle			
s1	1				lunate	1	1		distal			
s2-5	2				triquetrum		1					
coccyx					pisiform							
Sternum	1				trapezium	1	1					
Ribs		10	11		trapezoid	1	1					

Figure 3.7 Skeletal Summary 3Ea

Osteological Attributes 3Eb

Inventory and Preservation

This individual is represented by a fragmented cranial vault and a few limb bones (Figure 3.8). The bone is in fair condition, but fragmented.

Age

The age of the individual was determined to be a middle adult based on the phase of the auricular surface of the right os coxae (30-34 years).

Sex

The sex of the individual was determined to be female based on the nuchal crest and gracile muscle attachments on the femora.

Stature

Could not be determined due to missing elements.

Ancestry

Could not be determined due to missing elements.

Skeletal Pathology

No pathological conditions were observed on the recovered remains.

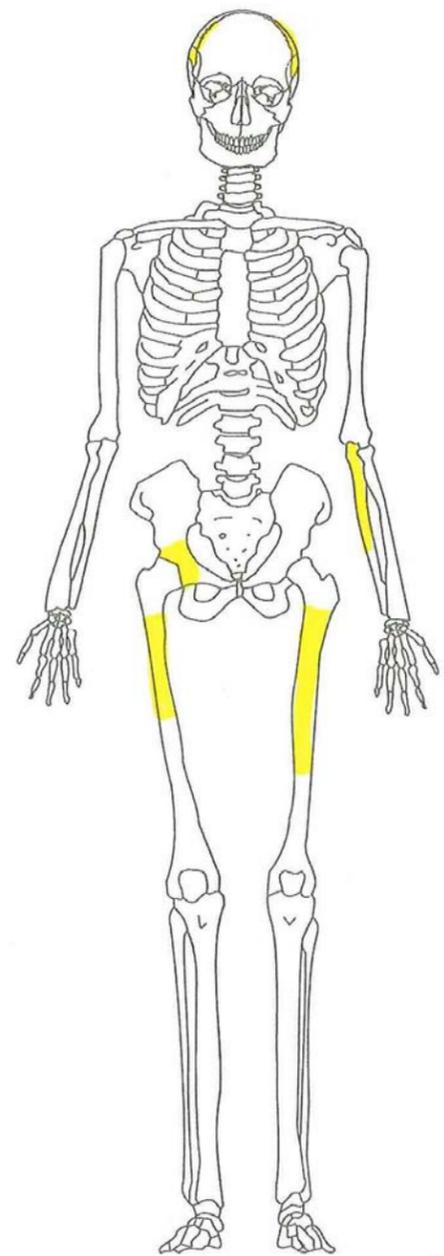
Dental Pathology

Could not be determined due to missing elements.

Osteological Summary for 3Eb

This individual was represented by a partial cranium and a few limb bones and determined to be a middle adult female.

3Eb
 Sex: Female
 Age: Middle Adult
 Ancestry: indeterminate
 Height: indeterminate
 Skeletal Pathology: none observed
 Dental Pathology: indeterminate



3Eb Skeletal Elements Represented												
Element	Axial	Left	Right	Indet.	Element	Left	Right	Indet.	Element	Left	Right	Indet.
Name	MNE	MNE	MNE	MNE	Name	MNE	MNE	MNE	Name	MNE	MNE	MNE
Skull					Teeth				capitate			
frontal					upper I1				hamate			
parietal		1	1		upper I2				Metacarpals			
occipital	1				upper C				Phalanges			
temporal					upper PM1				proximal			
sphenoid					upper PM2				middle			
zygomatic					upper M1				distal			
maxilla					upper M2				Lower Limb			
palatine					upper M3				os coxae		1	
nasal					lower I1	1			femur	1	1	
ethmoid					lower I2				tibia			
lacrimal					lower C				fibula			
vomer					lower PM1				patella			
mandible					lower PM2				Ankle			
hyoid					lower M1				talus			
Vertebrae					lower M2				calcaneus			
cervical					lower M3				navicular			
c1					Upper Limb				medial cun.			
c2					clavicle				interm. cun.			
c3-7					scapula				lat.cuneiform			
thoracic					humerus				cuboid			
t1-t12					radius				Metatarsals			
lumbar					ulna		1		Phalanges			
l1-5					Wrist				proximal			
sacral					scaphoid				middle			
s1					lunate				distal			
s2-5					triquetrum							
coccyx					pisiform							
Sternum					trapezium							
Ribs					trapezoid							

Figure 3.8 Skeletal Summary 3Eb

RECOVERY 4E

Mortuary Attributes

Burial Orientation

The burial was oriented with the head to the southwest and the feet to the northeast.

Coffin Shape and Size

The remnants of the coffin and/or distinct outline of differently colored soil indicated that the coffin was hexagonal in shape. It was 74 inches (187.96 cm) long, 19 inches (48.26 cm) at its maximum width and 6 inches (15.24 cm) at its minimum width.

Hardware

Ten non-diagnostic nail fragments were discarded.

Cultural Attributes

Clothing

Three ceramic, four-hole buttons were recovered, one ink well-style with paint around the rim and two dish-style. Two ferrous buttons and two two-hole bone buttons were also recovered

Other Personal Artifacts

No other personal artifacts were recovered.

Other Inclusions or Offerings

One unidentified small, flat, non-ferrous ring was recovered.

Summary and Estimated Date of Burial

Prosser process buttons were manufactured between 1849 and 1910 while the interment dates of the cemetery were between 1879 and 1922. The estimated date of burial is between 1879 and 1910.

Osteological Attributes

Inventory and Preservation

This individual is represented by a fairly complete skull, dentition and 90% of the post-cranial skeleton (Figure 3.9). The bone is in good condition, but the skull is fragmented.

Age

The age of the individual was determined to be a young adult based on the phase of the auricular surfaces of the os coxae (25-29 years).

Sex

The sex of the individual was determined to be male based on the morphology of the skull and the greater sciatic notches of the os coxae.

Stature

The height of the individual was calculated as 5 feet and 4.4 inches (163.68 cm) based on the length of the left femur.

Ancestry

The ancestry of the individual was determined to be Euro-American based on cranial morphology and Carabelli's cusp found on the molars.

Skeletal Pathology

Localized periosteal bone formation was present on the lateral mid-shaft of left fibula. The area involved is 86.05 mm by 16.40 mm and is woven in appearance indicating the infection was active at time of death.

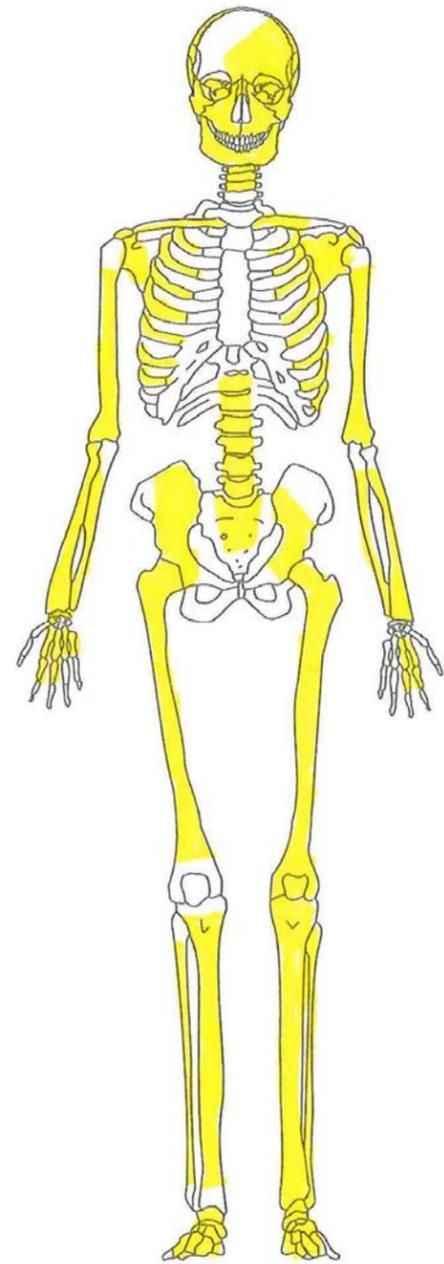
Dental Pathology

Moderate wear was observed on the teeth recovered. Linear horizontal enamel hypoplastic grooves were observed 2.39 mm from the CEJ on the left maxillary canine, 2.89 mm from the CEJ on the left maxillary first premolar, 1.58 mm from the CEJ on the left maxillary second premolar, 1.69 mm from the CEJ on the left maxillary first molar, 1.19 mm from the CEJ on the left maxillary second molar, 1.79 mm from the CEJ on the left maxillary third molar, 3.49 mm from the CEJ on the left mandibular canine, 3.12 mm from the CEJ on the right mandibular canine, 1.91 mm from the CEJ on the left mandibular first premolar, 2.32 mm from the CEJ on the right mandibular first premolar, 1.46 mm from the CEJ on the left mandibular second premolar, 1.69 mm from the CEJ on the right mandibular second premolar, 0.85 mm from the CEJ on the left mandibular first molar, 1.22 mm from the CEJ on the right mandibular first molar, 1.69 mm from the CEJ on the left mandibular second molar and 1.17 mm from the CEJ on the left mandibular third molar.

Osteological Summary for 4E

This individual was represented by fairly complete skeleton and determined to be a young adult male of Euro-American ancestry with a height of 5 feet and 4 inches, periosteal bone formation, hypoplasias and moderate dental wear.

4E
 Sex: Male
 Age: Young Adult
 Ancestry: Euro-American
 Height: 5' 4.4" (163.68 cm)
 Skeletal Pathology: Periosteal
 Bone Formation
 Dental Pathology: Hypoplasias



4E Skeletal Elements Represented												
Element Name	Axial MNE	Left MNE	Right MNE	Indet. MNE	Element Name	Left MNE	Right MNE	Indet. MNE	Element Name	Left MNE	Right MNE	Indet. MNE
Skull					Teeth				capitate			
frontal	1				upper I1				hamate			
parietal		1	1		upper I2				Metacarpals	4	5	
occipital	1				upper C	1			Phalanges			
temporal		1	1		upper PM1	1			proximal			3
sphenoid	1				upper PM2	1			middle			1
zygomatic		1	1		upper M1	1	1		distal			
maxilla		1	1		upper M2	1	1		Lower Limb			
palatine		1	1		upper M3	1			os coxae	1	1	
nasal		1	1		lower I1	1	1		femur	1	1	
ethmoid	1				lower I2	1			tibia	1	1	
lacrimial					lower C	1	1		fibula	1	1	
vomer					lower PM1	1	1		patella	1		
mandible	1				lower PM2	1	1		Ankle			
hyoid					lower M1	1	1		talus	1	1	
Vertebrae					lower M2	1	1		calcaneus	1	1	
cervical					lower M3	1	1		navicular	1		
c1	1				Upper Limb				medial cun.			
c2	1				clavicle	1	1		interm. cun.		1	
c3-7	1				scapula	1	1		lat.cuneiform	1		
thoracic					humerus	1	1		cuboid		1	
t1-t12	10				radius	1	1		Metatarsals	5	5	
lumbar					ulna	1	1		Phalanges			
l1-5	4				Wrist				proximal			1
sacral					scaphoid	1			middle			
s1	1				lunate		1		distal			1
s2-5					triquetrum							
coccyx					pisiform							
Sternum					trapezium		1					
Ribs		9	7		trapezoid		1					

Figure 3.9 Skeletal Summary 4E

RECOVERY 5E

Mortuary Attributes

Burial Orientation

The burial appeared to be oriented with the head to the southwest and the feet to the northeast (based on the outline of discolored soil).

Coffin Shape and Size

The remnants of the coffin and/or distinct outline of differently colored soil indicated that the coffin was hexagonal in shape. It was 70 inches (177.8 cm) long, 19 inches (48.26 cm) at its maximum width and 10 inches (25.4 cm) at its minimum width.

Hardware

Six non-diagnostic nail fragments were discarded.

Cultural Attributes

Clothing

No clothing-related artifacts were recovered.

Other Personal Artifacts

No other personal artifacts were recovered.

Other Inclusions or Offerings

No other inclusions or offerings were recovered.

Summary and Estimated Date of Burial

No artifacts were recovered that could accurately estimate the date of burial. The date of burial is estimated to be between the interment dates of the cemetery, 1879 and 1922.

Osteological Attributes

No bone was recovered from this burial.

RECOVERY 6E

Mortuary Attributes

Burial Orientation

The burial was oriented with the head to the southwest and the feet to the northeast.

Coffin Shape and Size

The remnants of the coffin and/or distinct outline of differently colored soil indicated that the coffin was hexagonal in shape. It was 67 inches (170.18 cm) long, 19 inches (48.26 cm) at its maximum width and 10 inches (25.4 cm) at its minimum width.

Hardware

Eight fragments of six swing bail handles and two thumbscrews were recovered. One non-diagnostic nail fragment was discarded.

Cultural Attributes

Clothing

One ceramic, four-hole, dish-style button and one ferrous and non-ferrous button were recovered.

Other Personal Artifacts

No other personal artifacts were recovered.

Other Inclusions or Offerings

Two fragments of one unidentified small, flat, non-ferrous ring was recovered

Summary and Estimated Date of Burial

Swing bail handles were used between the 1850s and the 1910s, while the interment dates of the cemetery were between 1879 and 1922. The estimated date of burial is between 1879 and 1920.

Osteological Attributes

Inventory and Preservation

The minimum number of individuals for this recovery is two. The two individuals were designated Individual A and Individual B. Individual A is represented by a fragmented cranium, dentition and about 70% of the post-cranial skeleton (Figure 3.10). The post-cranial skeleton consists of lower limbs, upper arms, os coxae and most of the vertebral column. The bone of the Individual A is in good condition. Individual B is represented by a right humerus midshaft and the left humerus distal end and are fragmented, but in good condition.

Age

The age of the Individual A was determined to be an adult based on the complete eruption of the mandibular third molars (>21 years). The age of Individual B was determined to be an adult based on the size and morphology of the humeri.

Sex

The sex of Individual A was determined to be male based on the mastoid process and the vertical diameter of the left femoral head (48.94 mm). The sex of Individual B could not be determined.

Stature

Could not be determined due to missing elements.

Ancestry

Could not be determined due to missing elements.

Skeletal Pathology

No pathological conditions were observed on the recovered remains.

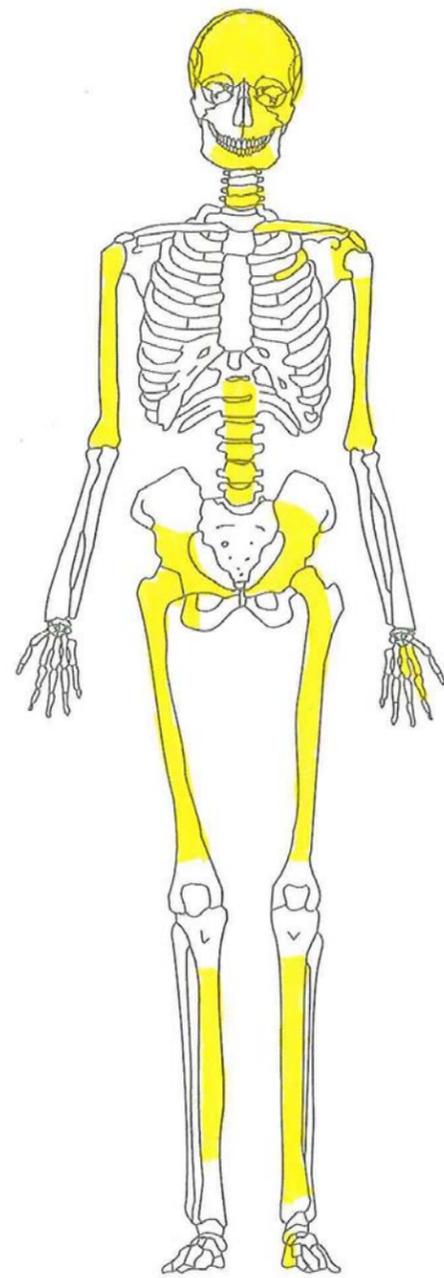
Dental Pathology

Individual A had moderate wear on the anterior teeth and extensive wear on the molars. A carious lesion was observed on the distal interproximal surface of the left maxillary second premolar. There was also antemortem loss of the right mandibular third molar.

Osteological Summary for 6E

The minimum number of individuals for this recovery is two. Individual A determined to be an adult male with carious lesions, moderate to extensive dental wear and antemortem tooth loss. Individual B was determined to be an adult.

6Ea
 Sex: Male
 Age: Adult
 Ancestry: indeterminate
 Height: indeterminate
 Skeletal Pathology: none observed
 Dental Pathology: Carious Lesion, Antemortem Tooth Loss,
 Extensive Wear



6Ea Skeletal Elements Represented												
Element	Axial	Left	Right	Indet.	Element	Left	Right	Indet.	Element	Left	Right	Indet.
Name	MNE	MNE	MNE	MNE	Name	MNE	MNE	MNE	Name	MNE	MNE	MNE
Skull					Teeth				capitate			
frontal	1				upper I1				hamate			
parietal		1	1		upper I2				Metacarpals	1		
occipital	1				upper C				Phalanges			
temporal		1	1		upper PM1				proximal	2		
sphenoid	1				upper PM2	1			middle			
zygomatic		1			upper M1				distal			
maxilla		1			upper M2				Lower Limb			
palatine					upper M3				os coxae	1	1	
nasal					lower I1				femur	1	1	
ethmoid					lower I2				tibia	1	1	
lacrimial					lower C				fibula			
vomer					lower PM1		1		patella			
mandible	1				lower PM2	1	1		Ankle			
hyoid					lower M1	1	1		talus			
Vertebrae					lower M2	1	1		calcaneus	1		
cervical					lower M3	1			navicular			
c1					Upper Limb				medial cun.			
c2					clavicle	1			interm. cun.			
c3-7	4				scapula	1			lat.cuneiform			
thoracic					humerus	2	2		cuboid			
t1-t12	3				radius				Metatarsals			
lumbar					ulna				Phalanges			
l1-5	5				Wrist				proximal			
sacral					scaphoid				middle			
s1	1				lunate				distal			
s2-5	4				triquetrum							
coccyx					pisiform							
Sternum					trapezium							
Ribs		1			trapezoid							

Figure 3.10 Skeletal Summary 6Ea

RECOVERY 7EA

Mortuary Attributes

Burial Orientation

The burial was oriented with the head to the southwest and the feet to the northeast.

Coffin Shape and Size

The remnants of the coffin and/or distinct outline of differently colored soil indicated that the coffin was hexagonal in shape. It was 74 inches (187.96 cm) long, 18 inches (45.72 cm) at its maximum width and 8 inches (20.32 cm) at its minimum width.

Hardware

Four non-diagnostic nail fragments were discarded

Cultural Attributes

Clothing

Five ferrous and non-ferrous buttons with garment fragments attached, three ferrous buttons and one ceramic, four-hole, dish-style button were recovered. Seven fragments of two non-ferrous suspender buckles, two brown, woven fabric garment fragments and six rivets were also recovered.

Other Personal Artifacts

One vulcanized rubber comb found at the right chest area, two lenses from a pair of eyeglasses found attached to left suspender buckle and two small, mouth-blown, clear glass pharmaceutical vials found in the left hip area were recovered.

Other Inclusions or Offerings

One unidentified, curved, leather fragment and three unidentified ferrous fragments were recovered.

Summary and Estimated Date of Burial

Prosser process buttons were manufactured between 1849 and 1910, while the interment dates of the cemetery were between 1879 and 1922. The estimated date of burial is between 1879 and 1910.

Osteological Attributes of 7Ea

Inventory and Preservation

This individual is represented by a partial skull, dentition and 40% of the post-cranial skeleton (Figure 3.11). The skull consists on the cranium, which is in fair condition, but fragmented. The lower limb bones, the left upper limb bones and a few cervical vertebrae were recovered in fair, but fragmented condition.

Age

The age of the individual was determined to be a young adult based on the recent fusion of the femoral heads (19-24 years).

Sex

The sex of the individual was determined to be female based on the nuchal crest, mastoid processes, supraorbital margins and glabella.

Stature

Could not be determined due to missing elements.

Ancestry

Could not be determined due to missing elements.

Skeletal Pathology

General periosteal bone formation was observed around the shafts of the left and right tibiae and femora, probably due to infection. There were some areas of smooth bone indicating healing, but most of the affected area was active at the time of death.

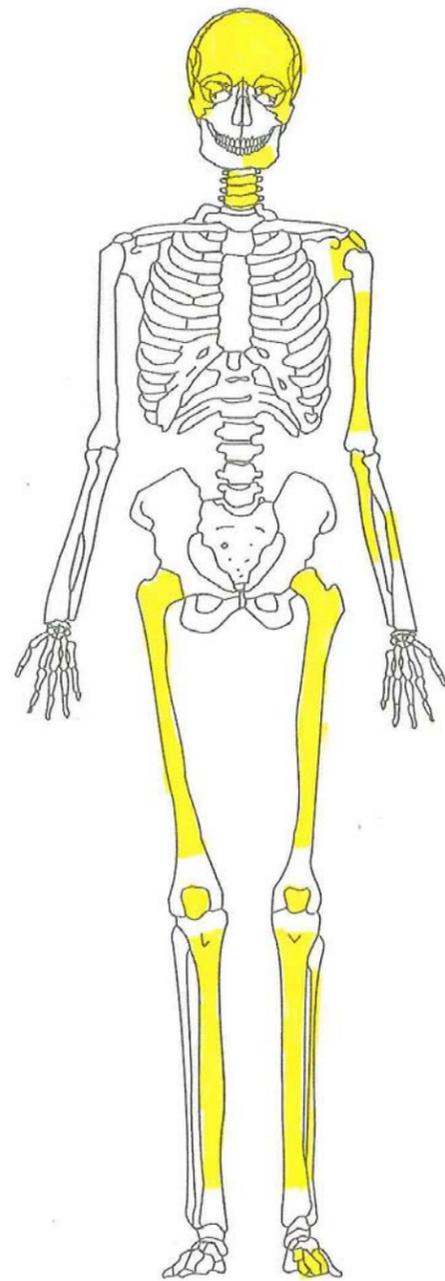
Dental Pathology

Minor wear was observed on the anterior teeth and moderate wear was observed on the molars. Carious lesions were found on the distal interproximal surfaces of the left mandibular second incisor and the right mandibular second premolar. Linear horizontal enamel hypoplastic grooves were observed 2.08 mm from the CEJ on the left mandibular first incisor, 1.90 mm from the CEJ on the right mandibular first incisor, 2.36 mm from the CEJ on the left mandibular second incisor, 1.46 mm and 3.12 mm from the CEJ on the right mandibular second incisor, 1.92 mm from the CEJ on the left mandibular canine and 2.10 mm and 3.15 mm from the CEJ on the right mandibular canine.

Osteological Summary for 7Ea

This individual was represented by a fragmented cranium, dentition and some limb bones. The individual was determined to be a young adult female with periosteal bone formation, carious lesions, hypoplasias and minor to moderate dental wear.

7Ea
 Sex: Female
 Age: Young Adult
 Ancestry: indeterminate
 Height: indeterminate
 Skeletal Pathology: Periosteal Bone Formation
 Dental Pathology: Carious Lesions, Hypoplasias



7Ea Skeletal Elements Represented												
Element Name	Axial MNE	Left MNE	Right MNE	Indet. MNE	Element Name	Left MNE	Right MNE	Indet. MNE	Element Name	Left MNE	Right MNE	Indet. MNE
Skull					Teeth				capitate			
frontal	1				upper I1				hamate			
parietal		1	1		upper I2				Metacarpals			
occipital	1				upper C				Phalanges			
temporal		1	1		upper PM1				proximal			
sphenoid	1				upper PM2				middle			
zygomatic		1	1		upper M1				distal			
maxilla					upper M2				Lower Limb			
palatine					upper M3				os coxae			
nasal					lower I1	1	1		femur	1	1	
ethmoid	1				lower I2	1	1		tibia	1	1	
lacrimial					lower C	1	1		fibula	1	1	
vomer					lower PM1	1	1		patella	1	1	
mandible	1				lower PM2				Ankle			
hyoid					lower M1		1		talus	1	1	
Vertebrae					lower M2		1		calcaneus	1	1	
cervical					lower M3				navicular	1	1	
c1	1				Upper Limb				medial cun.			
c2	1				clavicle				interm. cun.			
c3-7	3				scapula	1			lat.cuneiform			
thoracic					humerus	1			cuboid			
t1-t12					radius			1	Metatarsals			1
lumbar					ulna	1			Phalanges			
l1-5					Wrist				proximal			
sacral					scaphoid				middle			
s1					lunate				distal			1
s2-5					triquetrum							
coccyx					pisiform							
Sternum					trapezium							
Ribs					trapezoid							

Figure 3.11 Skeletal Summary 7Ea

Osteological Attributes 7Eb

Inventory and Preservation

This individual is represented by 50% of the post-cranial skeleton (Figure 3.12). The upper and lower limb bones and os coxae were recovered in fair conditions, but fragmented.

Age

The age of the individual was determined to be a middle adult based on the phase of the auricular surfaces of the os coxae (35-39 years).

Sex

The sex of the individual was determined to be male based on the greater sciatic notches of the os coxae and vertical diameter of the left femoral head (49.41 mm).

Stature

Could not be determined due to missing elements.

Ancestry

Could not be determined due to missing elements.

Skeletal Pathology

Abnormal morphology of the left humeral shaft was observed. The superior shaft is rotated medially and an irregular curve was present compared to the right humerus. This abnormal morphology was probably caused by a complete fracture of the humeral shaft during childhood, which as an adult, appears to be completely healed.

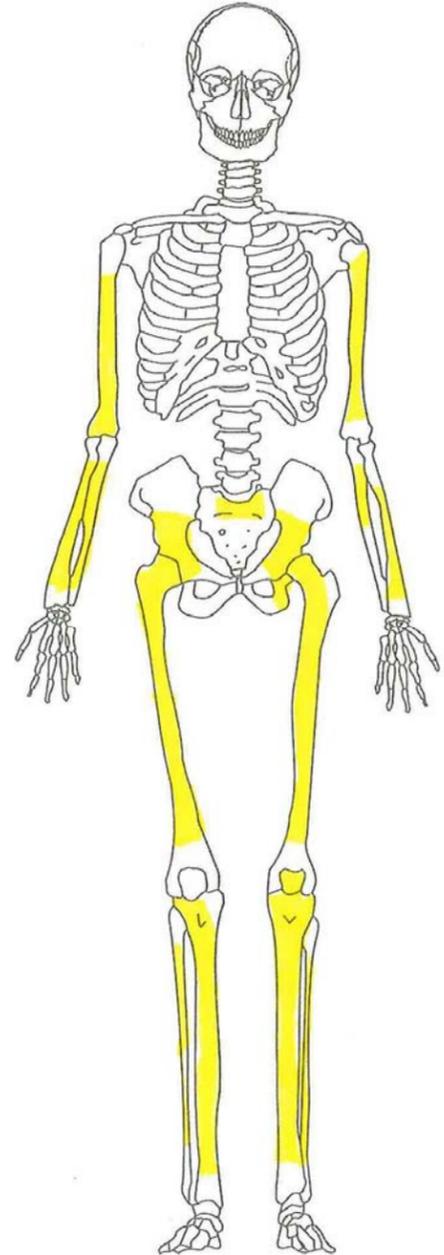
Dental Pathology

Could not be determined due to missing elements.

Osteological Summary for 7Eb

This individual was represented by the post-cranial skeleton and determined to be a middle adult male with abnormal humeral shaft morphology probably due to a fracture.

7Eb
 Sex: Male
 Age: Middle Adult
 Ancestry: indeterminate
 Height: indeterminate
 Skeletal Pathology: Abnormal Morphology of Left Humerus
 (Probable Fracture)
 Dental Pathology: indeterminate



7Eb Skeletal Elements Represented												
Element Name	Axial MNE	Left MNE	Right MNE	Indet. MNE	Element Name	Left MNE	Right MNE	Indet. MNE	Element Name	Left MNE	Right MNE	Indet. MNE
Skull					Teeth				capitate			
frontal					upper I1				hamate			
parietal					upper I2				Metacarpals			
occipital					upper C				Phalanges			
temporal					upper PM1				proximal			
sphenoid					upper PM2				middle			
zygomatic					upper M1				distal			
maxilla					upper M2				Lower Limb			
palatine					upper M3				os coxae	1	1	
nasal					lower I1				femur	1	1	
ethmoid					lower I2				tibia	1	1	
lacrimial					lower C				fibula	1	1	
vomer					lower PM1				patella	1		
mandible					lower PM2				Ankle			
hyoid					lower M1				talus	1		
Vertebrae					lower M2				calcaneus	1		
cervical					lower M3				navicular			
c1					Upper Limb				medial cun.			
c2					clavicle				interm. cun.			
c3-7					scapula				lat.cuneiform			
thoracic					humerus	1	1		cuboid			
t1-t12					radius	1	1		Metatarsals			
lumbar					ulna	1	1		Phalanges			
l1-5					Wrist				proximal			
sacral					scaphoid				middle			
s1	1				lunate				distal			
s2-5					triquetrum							
coccyx					pisiform							
Sternum					trapezium							
Ribs					trapezoid							

Figure 3.12. Skeletal Summary 7Eb

RECOVERY 8E

Mortuary Attributes

Burial Orientation

The burial appeared to be oriented with the head to the southwest and the feet to the northeast based on the outline of discolored soil present.

Coffin Shape and Size

The remnants of the coffin and/or distinct outline of differently colored soil indicated that the coffin was hexagonal in shape. It was heavily impacted, hindering an accurate determination of size.

Hardware

No hardware was recovered.

Cultural Attributes

Clothing

No clothing-related artifacts were recovered.

Other Personal Artifacts

No other personal artifacts were recovered.

Other Inclusions or Offerings

No other inclusions or offerings were recovered.

Summary and Estimated Date of Burial

No artifacts were recovered that could accurately estimate the date of burial. The date of burial is estimated to be between the interment dates of the cemetery, 1879 and 1922.

Osteological Attributes

No bone was recovered from this burial.

RECOVERY 9EA

Mortuary Attributes

Burial Orientation

The burial was oriented with the head to the southwest and the feet to the northeast.

Coffin Shape and Size

The remnants of the coffin and/or distinct outline of differently colored soil indicated that the coffin was hexagonal in shape. It was 72 inches (182.88 cm) long, 15 inches (38.1 cm) at its maximum width and 11 inches (27.94 cm) at its minimum width.

Hardware

Twelve non-diagnostic nail fragments were discarded.

Cultural Attributes

Clothing

Seven ceramic, four-hole buttons were recovered, four tire-style and three dish-style. One ferrous button was also recovered.

Other Personal Artifacts

No other personal artifacts were recovered.

Other Inclusions or Offerings

No other inclusions or offerings were recovered.

Summary and Estimated Date of Burial

Prosser process buttons were manufactured between 1849 and 1910, while the interment dates of the cemetery were between 1879 and 1922. The estimated date of burial is between 1879 and 1910.

Osteological Attributes 9Ea

Inventory and Preservation

This individual is represented by a skull and 15% of the post-cranial skeleton (Figure 3.13). The cranial vault is intact but the face is disarticulated and the mandible is fragmented. The post-cranial skeleton consists of two cervical vertebrae, two lumbar vertebrae, right humerus, right ulna, two metacarpals, left patella, right talus and right calcaneous. The bone is fragmented, but in good condition.

Age

The age of the individual was determined to be a middle adult based on the closure of the external cranial vault sutures (31-61 years).

Sex

The sex of the individual was determined to be male based on mastoid processes, the greater sciatic notch of the os coxa and the vertical diameter of the left femoral head (50.36 mm).

Stature

Could not be determined due to missing elements.

Ancestry

The ancestry of the individual was determined to be a mix of Asian and Euro-American based on a partial metopic suture, vascular etching on the frontal, minimal sagittal keeling and simple vault sutures.

Skeletal Pathology

The individual exhibited abnormal bone loss in the form of macroscopic porosity directly superior to the left external auditory meatus.

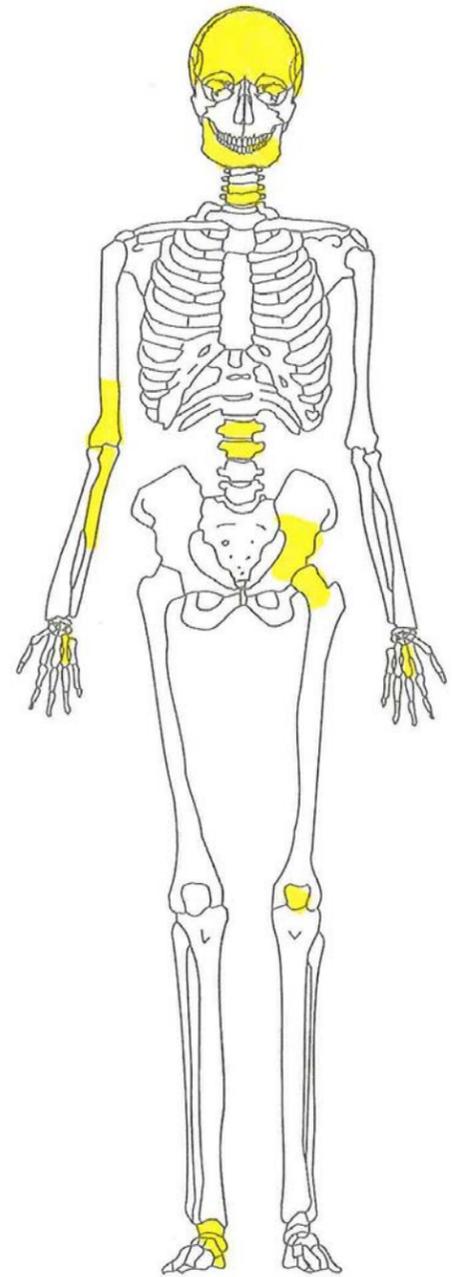
Dental Pathology

There was antemortem tooth loss of the left mandibular third molar, left mandibular second molar, right mandibular first molar, right mandibular second molar and right mandibular second molar.

Osteological Summary for 9Ea

This individual is represented by a partial skull and mainly the upper right limb bones. The individual was determined to be a middle adult male of mixed ancestry with abnormal bone loss and antemortem tooth loss.

9Ea
 Sex: Male
 Age: Middle Adult
 Ancestry: Mixed
 Height: indeterminate
 Skeletal Pathology: Abnormal Bone Loss
 Dental Pathology: Antemortem Tooth
 Loss



9Ea Skeletal Elements Represented												
Element	Axial	Left	Right	Indet.	Element	Left	Right	Indet.	Element	Left	Right	Indet.
Name	MNE	MNE	MNE	MNE	Name	MNE	MNE	MNE	Name	MNE	MNE	MNE
Skull					Teeth				capitate			
frontal	1				upper I1				hamate			
parietal		1	1		upper I2				Metacarpals	1	1	
occipital	1				upper C				Phalanges			
temporal		1	1		upper PM1				proximal			
sphenoid	1				upper PM2				middle			
zygomatic					upper M1				distal			
maxilla					upper M2				Lower Limb			
palatine					upper M3				os coxae	1		
nasal		1	1		lower I1				femur	1		
ethmoid					lower I2				tibia			
lacrimal					lower C				fibula			
vomer					lower PM1				patella	1		
mandible	1				lower PM2				Ankle			
hyoid					lower M1				talus		1	
Vertebrae					lower M2				calcaneus		1	
cervical					lower M3				navicular			
c1					Upper Limb				medial cun.			
c2					clavicle				interm. cun.			
c3-7	2				scapula				lat.cuneiform			
thoracic					humerus		1		cuboid			
t1-t12					radius				Metatarsals			
lumbar					ulna		1		Phalanges			
l1-5	2				Wrist				proximal			
sacral					scaphoid				middle			
s1					lunate				distal			
s2-5					triquetrum							
coccyx					pisiform							
Sternum					trapezium							
Ribs					trapezoid							

Figure 3.13. Skeletal Summary 9Ea

RECOVERY 9EB

Mortuary Attributes

Burial Orientation

The burial was oriented with the head to the southwest and the feet to the northeast.

Coffin Shape and Size

The remnants of the coffin and/or distinct outline of differently colored soil indicated that the coffin was heavily impacted by the weight of Recovery E9, hindering an accurate determination of shape and size.

Hardware

Ten non-diagnostic nail fragments were recovered.

Cultural Attributes

Clothing

One ceramic, four-hole, tire-style button was recovered.

Other Personal Artifacts

No other personal artifacts were recovered.

Other Inclusions or Offerings

No other inclusions or offerings were recovered.

Summary and Estimated Date of Burial

Prosser process buttons were manufactured between 1849 and 1910, while the interment dates of the cemetery were between 1879 and 1922. The estimated date of burial is between 1879 and 1910.

Osteological Attributes 9Eb

Inventory and Preservation

This individual is represented by a mandible, dentition and the right upper and lower limb bones (Figure 3.14). The bone is in good condition, but fragmented.

Age

The age of the individual was determined to be an adult based on the complete eruption and significant wear on the mandibular third molars (>25 years).

Sex

Could not be determined due to missing elements.

Stature

Could not be determined due to missing elements.

Ancestry

Could not be determined due to missing elements.

Skeletal Pathology

No pathological conditions were observed on the recovered remains.

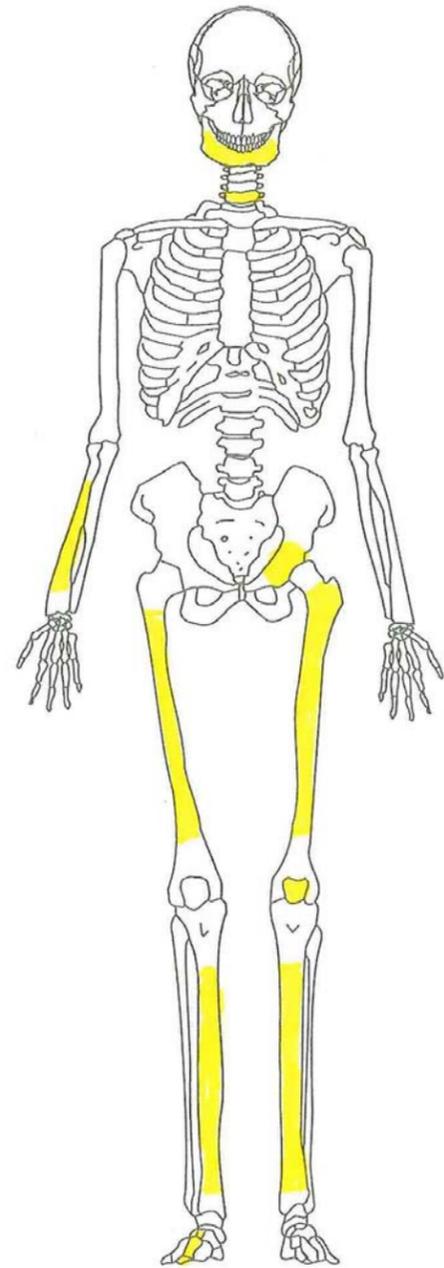
Dental Pathology

Moderate wear was observed on the teeth recovered. Hypoplasia in the form of linear horizontal grooves were observed 3.63 mm from CEJ on the left mandibular third molar, 3.91 mm from CEJ on the left mandibular first incisor and 3.43 mm from CEJ on the right mandibular third molar. Carious lesions were observed on lingual surface of the left mandibular third molar and on the mesial interproximal surface of the left mandibular third molar.

Osteological Summary for 9Eb

This individual was mainly represented by a mandible, teeth and the lower limb bones. The individual was determined to an adult with carious lesions, moderate dental wear and hypoplasias.

9Eb
 Sex: indeterminate
 Age: Adult
 Ancestry: indeterminate
 Height: indeterminate
 Skeletal Pathology: none observed
 Dental Pathology: Hypoplasias, Caries Lesions



9Eb Skeletal Elements Represented												
Element Name	Axial MNE	Left MNE	Right MNE	Indet. MNE	Element Name	Left MNE	Right MNE	Indet. MNE	Element Name	Left MNE	Right MNE	Indet. MNE
Skull					Teeth				capitate			
frontal					upper I1	1			hamate			
parietal					upper I2	1			Metacarpals			
occipital					upper C				Phalanges			
temporal					upper PM1				proximal			
sphenoid					upper PM2				middle			
zygomatic					upper M1				distal			
maxilla					upper M2				Lower Limb			
palatine					upper M3				os coxae			1
nasal					lower I1	1			femur	1	1	
ethmoid					lower I2				tibia	1	1	
lacrimial					lower C				fibula			
vomer					lower PM1		1		patella	1		
mandible	1				lower PM2				Ankle			
hyoid					lower M1				talus		1	
Vertebrae					lower M2	1			calcaneus		1	
cervical					lower M3	1	1		navicular			
c1					Upper Limb				medial cun.			
c2					clavicle				interm. cun.			
c3-7	1				scapula				lat.cuneiform			
thoracic					humerus				cuboid			
t1-t12					radius		1		Metatarsals		1	
lumbar					ulna				Phalanges			
l1-5					Wrist				proximal			
sacral					scaphoid				middle			
s1					lunate				distal			
s2-5					triquetrum							
coccyx					pisiform							
Sternum					trapezium							
Ribs					trapezoid							

Figure 3.14. Skeletal Summary 9Eb

RECOVERY 10E

Mortuary Attributes

Burial Orientation

The burial was oriented with the head to the southwest and the feet to the northeast.

Coffin Shape and Size

The remnants of the coffin and/or distinct outline of differently colored soil indicated that the coffin was hexagonal in shape. It was 72 inches (182.88 cm) long, 20 inches (50.8 cm) at its maximum width and 10 inches (25.4 cm) at its minimum width.

Hardware

No hardware was recovered.

Cultural Attributes

Clothing

Two gutta-percha, shank-style buttons and three ceramic four-hole buttons were recovered, two pie crust-style and one dish-style.

Other Personal Artifacts

No other personal artifacts were recovered.

Other Inclusions or Offerings

One fragment of a Euro-American porcelain cup was recovered.

Relevant Field Notes

The remnants of the coffin and/or distinct outline of differently colored soil indicated that the coffin was S-shaped due to being placed in a small shaft and having the side boards collapse under pressure.

Summary and Estimated Date of Burial

Prosser process buttons were manufactured between 1849 and 1910, while the interment dates of the cemetery were between 1879 and 1922. The estimated date of burial is between 1879 and 1910.

Osteological Attributes

Inventory and Preservation

This individual is represented by a relatively complete skull, dentition and 50% of the post-cranial skeleton (Figure 3.15). The skull is in fair condition but fragmented. The upper and lower limb bones are in poor condition and friable.

Age

The age of the individual was determined to be an adult based on the complete eruption and wear facets on the left and right mandibular third molars (>25 years).

Sex

The sex of the individual was determined to be male based on the nuchal crest, supraorbital margins, glabella, mental eminence and the morphology of the cranium and mandible.

Stature

Could not be determined due to missing elements.

Ancestry

The ancestry of the individual was determined to be Euro-American based on nasal morphology and an inion hook.

Skeletal Pathology

No pathological conditions were observed on the recovered remains.

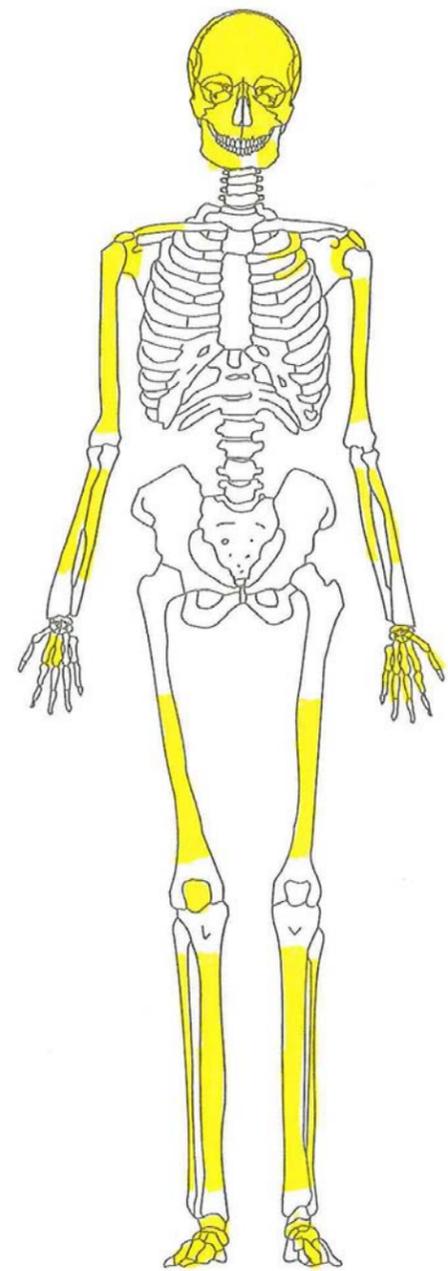
Dental Pathology

Moderate dental wear was observed on the teeth recovered. There was antemortem loss of the right maxillary first premolar and the left mandibular first molar. Large carious lesions, which destroyed the complete crowns of the teeth, were observed on the right maxillary second premolar and right maxillary first molar.

Osteological Summary for 10E

This individual was represented by a relatively complete skull, dentition and limb bones. This individual was determined to be an adult male of Euro-American ancestry with moderate dental wear, carious lesions and antemortem tooth loss.

10E
 Sex: Male
 Age: Adult
 Ancestry: Euro-American
 Height: indeterminate
 Skeletal Pathology: none observed
 Dental Pathology: Antemortem Tooth Loss, Carious Lesions



10E Skeletal Elements Represented												
Element	Axial	Left	Right	Indet.	Element	Left	Right	Indet.	Element	Left	Right	Indet.
Name	MNE	MNE	MNE	MNE	Name	MNE	MNE	MNE	Name	MNE	MNE	MNE
Skull					Teeth				capitate	1		
frontal	1				upper I1	1			hamate			
parietal		1	1		upper I2		1		Metacarpals	5	2	
occipital	1				upper C	1	1		Phalanges			
temporal		1	1		upper PM1	1			proximal	5		
sphenoid	1				upper PM2		1		middle	4		1
zygomatic		1	1		upper M1	1	1		distal	2		
maxilla		1	1		upper M2	1	1		Lower Limb			
palatine		1	1		upper M3	1			os coxae			
nasal		1	1		lower I1	1	1		femur	1	1	
ethmoid	1				lower I2	1	1		tibia	1	1	
lacrimial					lower C	1	1		fibula	1	1	
vomer					lower PM1	1	1		patella		1	
mandible	1				lower PM2	1	1		Ankle			
hyoid					lower M1				talus	1	1	
Vertebrae					lower M2	1	1		calcaneus	1	1	
cervical					lower M3	1	1		navicular		1	
c1					Upper Limb				medial cun.		1	
c2					clavicle		1		interm. cun.		1	
c3-7					scapula	1	1		lat.cuneiform		1	
thoracic					humerus	1	1		cuboid		1	
t1-t12					radius	1	1		Metatarsals	3	5	
lumbar					ulna	1	1		Phalanges			
l1-5					Wrist				proximal		1	
sacral					scaphoid	1			middle			
s1					lunate	1			distal			
s2-5					triquetrum							
coccyx					pisiform	1						
Sternum					trapezium	1						
Ribs				2	trapezoid							

Figure 3.15. Skeletal Summary 10E

RECOVERY 11E

Mortuary Attributes

Burial Orientation

The burial was oriented with the head to the northeast and the feet to the southwest.

Coffin Shape and Size

The remnants of the coffin and/or distinct outline of differently colored soil indicated that the coffin was hexagonal in shape. It was 72 inches (182.88 cm) long, 18 inches (45.72 cm) at its maximum width and 11 inches (27.94 cm) at its minimum width.

Hardware

No hardware was recovered.

Cultural Attributes

Clothing

Six ceramic, four-hole, dish-style buttons and eight ferrous shank-style buttons were recovered.

Other Personal Artifacts

No other personal artifacts were recovered.

Other Inclusions or Offerings

No other inclusions or offerings were recovered.

Summary and Estimated Date of Burial

Prosser process buttons were manufactured between 1849 and 1910, while the interment dates of the cemetery were between 1879 and 1922. The estimated date of burial is between 1879 and 1910.

Osteological Attributes

Inventory and Preservation

This individual is represented by a partial skull, dentition and 40% of the post-cranial skeleton (Figure 3.16). The skull consists of the cranial vault, facial bones and mandible, which are in fair condition, but fragmented. The upper and lower limb bones recovered are in poor friable condition.

Age

The age of the individual was determined to be an adult based on the complete eruption of the mandibular third molars (>22 years).

Sex

The sex of the individual was determined to be female based on the nuchal crest, mastoid processes, supraorbital margin, greater sciatic notches of the os coxae and the vertical diameter of the right humeral head (38.99 mm).

Stature

Could not be determined due to missing elements.

Ancestry

The ancestry of the individual was determined to be Asian based on the shovel shaped incisors.

Skeletal Pathology

No pathological conditions were observed on the recovered remains.

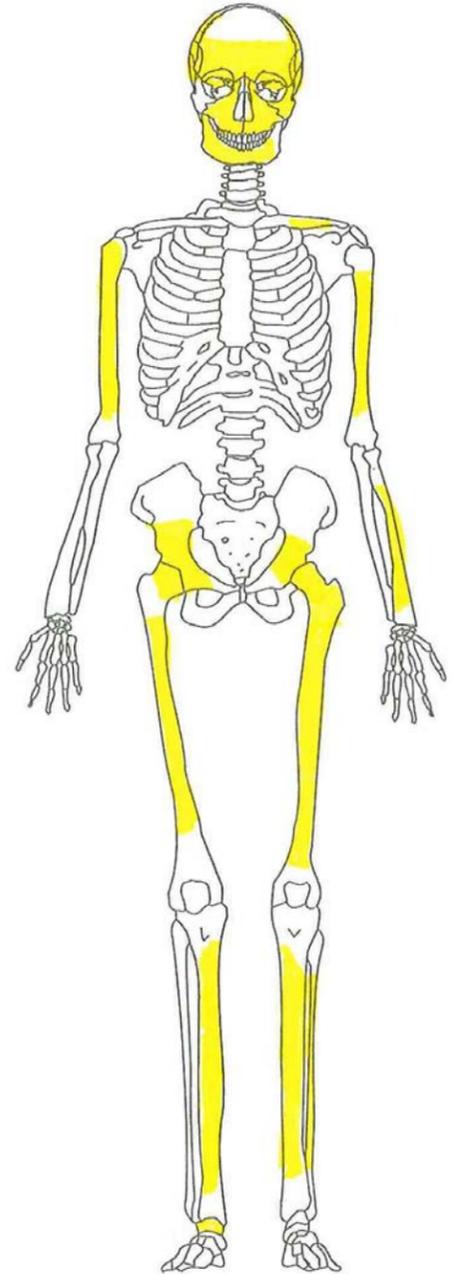
Dental Pathology

Moderate wear was observed on the teeth recovered. Carious lesions were found on the interproximal surfaces of the left mandibular second molar and left mandibular third molar. Linear horizontal enamel hypoplastic grooves were found 2.35 mm from the CEJ on the left maxillary first incisor, 5.22 mm from the CEJ on the left mandibular canine and 4.13 mm from the CEJ on the right mandibular canine. Enamel pearls were observed on the mesial surface of the right mandibular second molar, the mesial and distal surfaces of the left mandibular third molar and the mesial surface of the right mandibular third molar.

Osteological Summary for 11E

This individual was represented by a skull, dentition and post-cranial skeleton. The individual was determined to be an adult female of Asian ancestry with moderate dental wear, carious lesions, hypoplasias and enamel pearls.

11E
 Sex: Female
 Age: Adult
 Ancestry: Asian
 Height: indeterminate
 Skeletal Pathology: none observed
 Dental Pathology: Carious Lesions, Enamel Pearls,
 Hypoplasias



11E Skeletal Elements Represented												
Element	Axial	Left	Right	Indet.	Element	Left	Right	Indet.	Element	Left	Right	Indet.
Name	MNE	MNE	MNE	MNE	Name	MNE	MNE	MNE	Name	MNE	MNE	MNE
Skull					Teeth				capitate			
frontal	1				upper I1	1			hamate			
parietal		1	1		upper I2				Metacarpals			
occipital	1				upper C				Phalanges			
temporal		1	1		upper PM1		1		proximal			
sphenoid	1				upper PM2	1	1		middle			
zygomatic		1			upper M1	1	1		distal			
maxilla		1	1		upper M2	1	1		Lower Limb			
palatine					upper M3	1	1		os coxae	1	1	
nasal					lower I1				femur	1	1	
ethmoid	1				lower I2				tibia	1	1	
lacrimal					lower C	1	1		fibula			1
vomer					lower PM1	1	1		patella			
mandible	1				lower PM2	1	1		Ankle			
hyoid					lower M1	1	1		talus		1	
Vertebrae					lower M2	1	1		calcaneus			
cervical					lower M3	1	1		navicular			
c1					Upper Limb				medial cun.			
c2					clavicle	1			interm. cun.			
c3-7					scapula				lat.cuneiform			
thoracic					humerus	1	1		cuboid			
t1-t12					radius	1			Metatarsals			
lumbar					ulna				Phalanges			
l1-5					Wrist				proximal			
sacral					scaphoid				middle			
s1					lunate				distal			
s2-5					triquetrum							
coccyx					pisiform							
Sternum					trapezium							
Ribs					trapezoid							

Figure 3.16. Skeletal Summary 11E

RECOVERY 12E

Mortuary Attributes

Burial Orientation

The burial was oriented with the head to the southwest and the feet to the northeast.

Coffin Shape and Size

The remnants of the coffin and/or distinct outline of differently colored soil indicated that the coffin was hexagonal in shape. The coffin length was 70 inches (177.8 cm), was 21 inches (53.34 cm) at its maximum width and was 10 inches (25.4 cm) at its minimum width.

Hardware

No hardware was recovered.

Cultural Attributes

Clothing

Two ferrous four-hole buttons and six ceramic, four-hole buttons were recovered, one dish-style and five pie crust-style.

Other Personal Artifacts

No other personal artifacts were recovered.

Other Inclusions or Offerings

No other inclusions or offerings were recovered.

Summary and Estimated Date of Burial

Prosser process buttons were manufactured between 1849 and 1910, while the interment dates of the cemetery were between 1879 and 1922. The estimated date of burial is between 1879 and 1910.

Osteological Attributes

Inventory and Preservation

This individual is represented by a relatively complete skull, dentition and about 85% of the post-cranial skeleton (Figure 3.17). The cranial vault is intact but the face and the mandible were fragmented. The bone is in good condition, but some is fragmented.

Age

The age of the individual was determined to be a young adult based on the phase of the auricular surfaces of the os coxae (25-29 years).

Sex

The sex of the individual was determined to be male based on the greater sciatic notches of the os coxae, mastoid processes, supraorbital margins and the glabella.

Stature

The height of the individual was calculated to be 5 feet and 3.2 inches (160.52 cm) based on the length of the left femur.

Ancestry

The ancestry of the individual was determined to be Asian based on cranial morphology and shovel shaped incisors.

Skeletal Pathology

The individual exhibited abnormal bone loss in the form of macroporosity on the left supra-orbital torus.

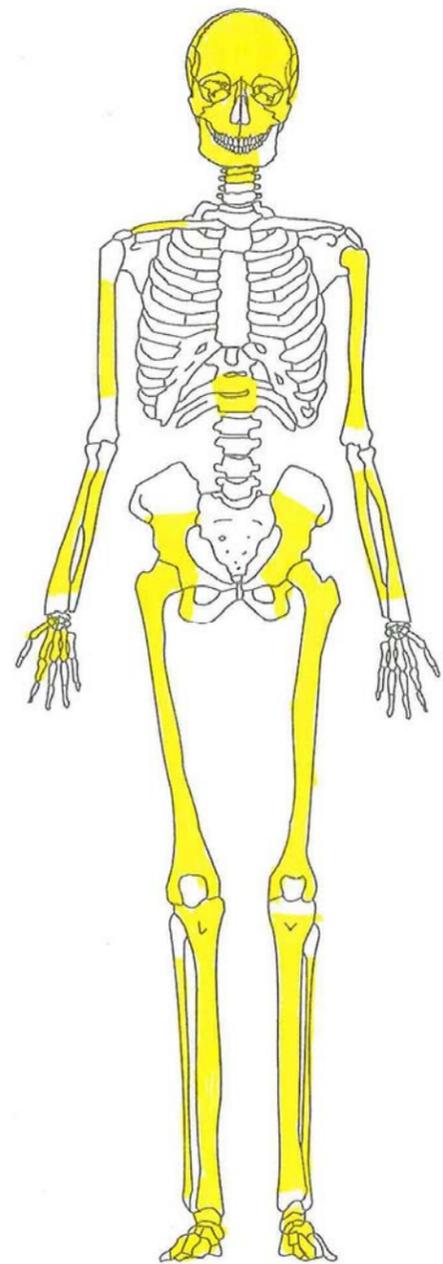
Dental Pathology

Minor to moderate wear was observed on the teeth recovered. Linear horizontal hypoplastic grooves were found 3.20 mm from CEJ on the right maxillary second premolar; 1.70 mm from CEJ on the right maxillary first premolar; 2.97 mm and 6.39 mm from CEJ on the right maxillary canine; 4.77 mm and 6.33 mm from CEJ on the left maxillary first incisor; 3.39 mm and 5.92 mm from CEJ on the left maxillary canine; 2.35 mm from CEJ on the left maxillary first premolar; 2.99 mm from CEJ on the left maxillary first molar; 2.85 mm from CEJ on the left maxillary second molar; 1.85 mm from CEJ on the left maxillary third molar; and 4.39 mm, 5.91 mm and 6.79 mm from CEJ on the left mandibular canine. The right mandibular canine exhibited hypoplasia in the form of an array of non-linear pits 6.53 mm from CEJ.

Osteological Summary for 12E

This individual is represented a skull with teeth and a fairly complete post-cranial skeleton. The individual was determined to be a young adult male of Asian ancestry with abnormal bone loss, minor to moderate dental wear and hypoplasias. The height of the individual was determined to be 5 feet and 3.2 inches (160.52 cm).

12E
 Sex: Male
 Age: Young Adult
 Ancestry: Asian
 Height: 5' 3.2" (160.52 cm)
 Skeletal Pathology: Abnormal Bone Loss
 Dental Pathology: Hypoplasias



12E Skeletal Elements Represented												
Element Name	Axial MNE	Left MNE	Right MNE	Indet. MNE	Element Name	Left MNE	Right MNE	Indet. MNE	Element Name	Left MNE	Right MNE	Indet. MNE
Skull					Teeth				capitate			
frontal	1				upper I1	1	1		hamate		1	
parietal		1	1		upper I2	1	1		Metacarpals		4	
occipital	1				upper C	1	1		Phalanges			
temporal		1	1		upper PM1	1	1		proximal		1	
sphenoid	1				upper PM2	1	1		middle			
zygomatic		1	1		upper M1	1	1		distal			
maxilla		1	1		upper M2	1	1		Lower Limb			
palatine					upper M3	1			os coxae	1	1	
nasal		1	1		lower I1				femur	1	1	
ethmoid					lower I2		1		tibia	1	1	
lacrimial					lower C	1	1		fibula	1	1	
vomer					lower PM1	1	1		patella			
mandible	1				lower PM2	1	1		Ankle			
hyoid					lower M1	1			talus	1	1	
Vertebrae					lower M2	1	1		calcaneus	1	1	
cervical					lower M3	1	1		navicular			
c1	1				Upper Limb				medial cun.			
c2	1				clavicle		1		interm. cun.			
c3-7					scapula				lat.cuneiform			
thoracic					humerus	1	1		cuboid			
t1-t12	3				radius	1	1		Metatarsals	3	3	
lumbar					ulna	1	1		Phalanges			
l1-5					Wrist				proximal			
sacral					scaphoid				middle			
s1					lunate				distal			
s2-5					triquetrum							
coccyx					pisiform		1					
Sternum					trapezium							
Ribs					trapezoid							

Figure 3.17. Skeletal Summary 12E

RECOVERY 13E

Mortuary Attributes

Burial Orientation

The burial was oriented with the head to the southwest and the feet to the northeast.

Coffin Shape and Size

The remnants of the coffin and/or distinct outline of differently colored soil indicated that the coffin was hexagonal in shape. The remnants of the coffin and/or distinct outline of differently colored soil indicated that the coffin was heavily impacted, hindering an accurate determination of size. The remaining coffin length was 19 inches (48.26 cm), was 13 inches (33.02 cm) at its maximum width and was 9 inches (22.86 cm) at its minimum width.

Hardware

No hardware was recovered.

Cultural Attributes

Clothing

No clothing-related artifacts were recovered.

Other Personal Artifacts

No other personal artifacts were recovered.

Other Inclusions or Offerings

No other inclusions or offerings were recovered.

Summary and Estimated Date of Burial

No artifacts were recovered that could accurately estimate the date of burial. The date of burial is estimated to be between the interment dates of the cemetery, 1879 and 1922.

Osteological Attributes

Inventory and Preservation

This individual is represented by tibiae and calcanea (Figure 3.18). The bone is in fair condition, but friable.

Age

The age of the individual was determined to be an adult based on the size and morphology of the tibia shafts.

Sex

Could not be determined due to missing elements.

Stature

Could not be determined due to missing elements.

Ancestry

Could not be determined due to missing elements.

Skeletal Pathology

No pathological conditions were observed on the recovered remains.

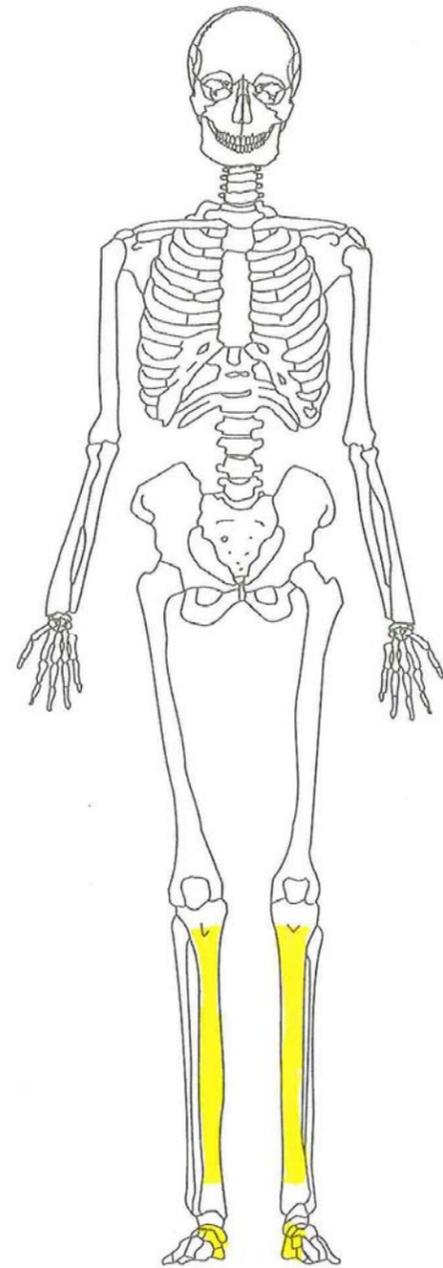
Dental Pathology

Could not be determined due to missing elements.

Osteological Summary for 13E

This individual was represented by lower limb bones and determined to be an adult.

13E
 Sex: indeterminate
 Age: Adult
 Ancestry: indeterminate
 Height: indeterminate
 Skeletal Pathology: none observed
 Dental Pathology: indeterminate



13E Skeletal Elements Represented												
Element	Axial	Left	Right	Indet.	Element	Left	Right	Indet.	Element	Left	Right	Indet.
Name	MNE	MNE	MNE	MNE	Name	MNE	MNE	MNE	Name	MNE	MNE	MNE
Skull					Teeth				capitate			
frontal					upper I1				hamate			
parietal					upper I2				Metacarpals			
occipital					upper C				Phalanges			
temporal					upper PM1				proximal			
sphenoid					upper PM2				middle			
zygomatic					upper M1				distal			
maxilla					upper M2				Lower Limb			
palatine					upper M3				os coxae			
nasal					lower I1				femur			
ethmoid					lower I2				tibia	1	1	
lacrimial					lower C				fibula			
vomer					lower PM1				patella			
mandible					lower PM2				Ankle			
hyoid					lower M1				talus			
Vertebrae					lower M2				calcaneus	1	1	
cervical					lower M3				navicular			
c1					Upper Limb				medial cun.			
c2					clavicle				interm. cun.			
c3-7					scapula				lat.cuneiform			
thoracic					humerus				cuboid			
t1-t12					radius				Metatarsals			
lumbar					ulna				Phalanges			
l1-5					Wrist				proximal			
sacral					scaphoid				middle			
s1					lunate				distal			
s2-5					triquetrum							
coccyx					pisiform							
Sternum					trapezium							
Ribs					trapezoid							

Figure 3.18. Skeletal Summary 13E

RECOVERY 14E

Mortuary Attributes

Burial Orientation

The burial was oriented with the head to the southwest and the feet to the northeast.

Coffin Shape and Size

The remnants of the coffin and/or distinct outline of differently colored soil indicated that the coffin was rectangular in shape. The coffin length was 75 inches (190.5 cm) and was 24 inches (60.96 cm) wide.

Hardware

Three fragments of two swing bail handles, three thumbscrews and two escutcheons were recovered.

Cultural Attributes

Clothing

One ferrous and non-ferrous, four-hole button was recovered.

Other Personal Artifacts

No other personal artifacts were recovered.

Other Inclusions or Offerings

No other inclusions or offerings were recovered.

Summary and Estimated Date of Burial

Swing bail handles were used between the 1850s and the 1910s, while the interment dates of the cemetery were between 1879 and 1922. The estimated date of burial is between 1879 and 1920.

Osteological Attributes

Inventory and Preservation

This individual is represented by a partial skull, dentition and the upper and lower limb bones (Figure 3.19). The bone is in fair condition, but fragmented.

Age

The age of the individual was determined to be a young adult based on the complete eruption of the mandibular 3rd molars (>21 years) and the incomplete fusion of the sternal ends of both clavicles (<30 years).

Sex

The sex of the individual was determined to be female based on the cranial and mandibular morphology and the vertical diameter of the left humeral head (40.50 mm).

Stature

Could not be determined due to missing elements.

Ancestry

The ancestry of the individual was determined to be Euro-American based on nasal morphology.

Skeletal Pathology

The frontal bone exhibited cribra orbitalia on the left and right superior surfaces of the orbits and the supraorbital ridges. There was a combination of true and coalesced porosity in the orbits and shallow microporosity on the ridges. More than 25% of the orbit surfaces were affected.

Abnormal bone formation of the inter-table on the frontal bone along the coronal suture was observed. The lateral surfaces were affected extensively and its maximum thickness was 8.18mm.

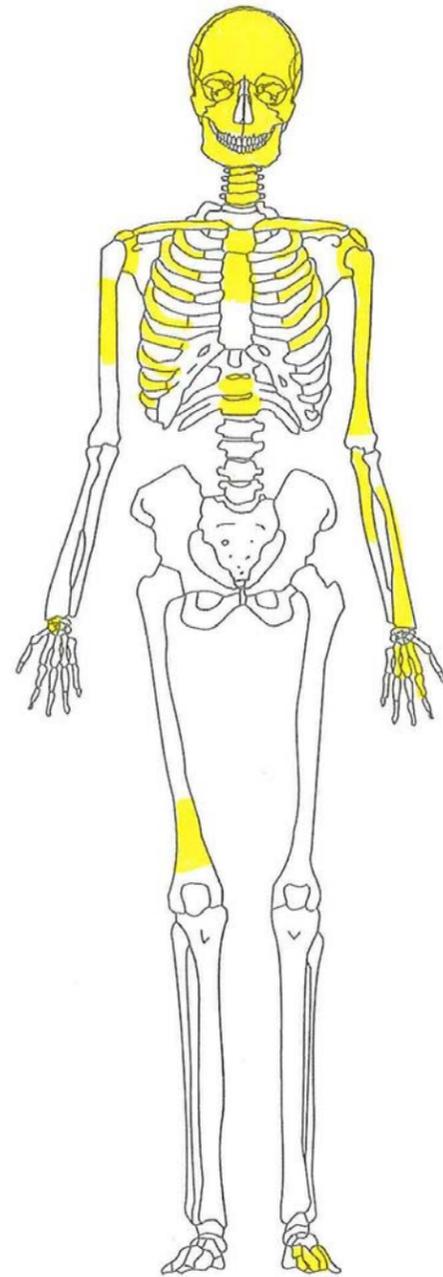
Dental Pathology

Insignificant to minor wear was observed on the teeth recovered. Antemortem tooth loss was observed for the right maxillary first premolar, the left maxillary second premolar and the left and right mandibular first molars. Hypoplasia, in the form of linear horizontal grooves, were observed 1.62 mm from the CEJ on the right maxillary canine, 4.20 mm from the CEJ on the right maxillary first incisor, 4.40 mm from the CEJ on the left maxillary first incisor, 3.14 mm from the CEJ on the left mandibular canine, 1.97 mm from the CEJ on the left mandibular second premolar, 3.45 mm from the CEJ on the left mandibular first incisor and 2.73 mm from the CEJ on the right mandibular canine. Linear horizontal hypoplastic pits were also observed on the left mandibular canine. Carious lesions with fillings were observed on the occlusal surface of the right maxillary first molar, left maxillary first molar and the left mandibular second molar; on the buccal surface of the right maxillary second molar; and a large lesion on the entire crown of the right mandibular second molar. A carious lesion without a filling was observed on the interproximal surface of the right maxillary first premolar.

Osteological Summary for 14E

This individual is represented by a partial skull with dentition and the upper and lower limb bones. The individual was determined to be a young adult female of Euro-American ancestry with cribra orbitalia, abnormal bone formation, antemortem tooth loss, hypoplasias, carious lesions with dental fillings and insignificant to minor dental wear.

14E
 Sex: Female
 Age: Young Adult
 Ancestry: Euro-American
 Height: indeterminate
 Skeletal Pathology: Cribra Orbitalia, Abnormal Bone Formation
 Dental Pathology: Hypoplasia, Carious Lesions with Fillings



14E Skeletal Elements Represented												
Element Name	Axial MNE	Left MNE	Right MNE	Indet. MNE	Element Name	Left MNE	Right MNE	Indet. MNE	Element Name	Left MNE	Right MNE	Indet. MNE
Skull					Teeth				capitate			
frontal	1				upper I1	1	1		hamate			
parietal		1	1		upper I2	1	1		Metacarpals			3
occipital	1				upper C	1	1		Phalanges			
temporal		1	1		upper PM1	1			proximal			1
sphenoid	1				upper PM2		1		middle			
zygomatic		1	1		upper M1	1	1		distal			
maxilla		1	1		upper M2	1	1		Lower Limb			
palatine		1	1		upper M3	1	1		os coxae			
nasal					lower I1	1	1		femur		1	
ethmoid					lower I2	1	1		tibia			
lacrimial					lower C	1	1		fibula			
vomer					lower PM1	1	1		patella			
mandible	1				lower PM2				Ankle			
hyoid	1				lower M1	1	1		talus			
Vertebrae					lower M2	1	1		calcaneus			
cervical					lower M3	1	1		navicular			
c1	1				Upper Limb				medial cun.			
c2	1				clavicle	1	1		interm. cun.			
c3-7	5				scapula	1	1		lat.cuneiform			
thoracic					humerus	1	1		cuboid			
t1-t12	5				radius	1			Metatarsals	3		
lumbar					ulna	1			Phalanges			
l1-5					Wrist				proximal			
sacral					scaphoid				middle			
s1					lunate				distal			
s2-5					triquetrum							
coccyx					pisiform		1					
Sternum	1				trapezium		1					
Ribs		5	8		trapezoid							

Figure 3.19. Skeletal Summary 14E

RECOVERY 15E

Mortuary Attributes

Burial Orientation

The burial was oriented with the head to the northeast and the feet to the southwest.

Coffin Shape and Size

The remnants of the coffin and/or distinct outline of differently colored soil indicated that the coffin was hexagonal in shape. The coffin length was 72 inches (182.88 cm), was 18 inches (45.72 cm) at its maximum width and was 9 inches (22.86 cm) at its minimum width.

Hardware

No hardware was recovered.

Cultural Attributes

Clothing

Three fragments of one non-ferrous suspender clasp were recovered.

Other Personal Artifacts

No other personal artifacts were recovered.

Other Inclusions or Offerings

One 1872 Seated Liberty quarter was recovered.

Summary and Estimated Date of Burial

No artifacts were recovered that could accurately date the burial. The date of burial is estimated to be between the interment dates of the cemetery, 1879 to 1922.

Osteological Attributes

Inventory and Preservation

This individual is represented by a partial skull, dentition and the lower limb bones (Figure 3.20). The cranial vault was intact but the overall skull was fragmented and friable. The long bones are in poor condition.

Age

The age of the individual was determined to be an adult based on wear and the complete eruption of the left mandibular third molar (>23 years).

Sex

The sex of the individual was determined to be female based on cranial morphology.

Stature

Could not be determined due to missing elements.

Ancestry

The ancestry of the individual was determined to be a mix between Euro-American and African-American based on nasal morphology and dental characteristics.

Skeletal Pathology

No pathological conditions were observed on the recovered remains.

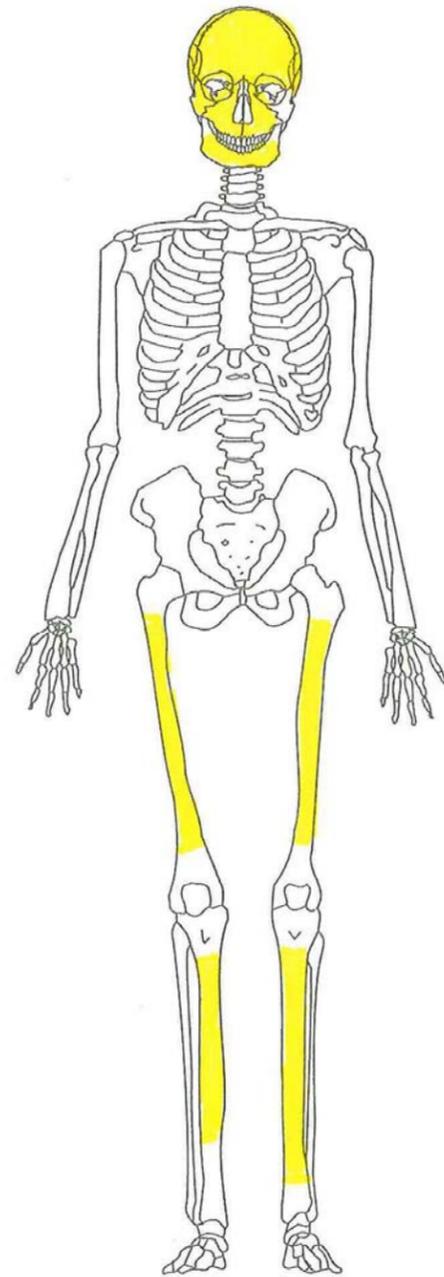
Dental Pathology

Minor dental wear was observed on the teeth recovered. The right maxillary first premolar and the left maxillary third molar were lost antemortem. The individual exhibited hypoplasias, teeth staining and gold fillings. Hypoplasia in the form of linear horizontal grooves was observed 2.89 mm and 4.36 mm from the CEJ on the right maxillary second premolar and 3.13 mm from the CEJ on the right mandibular first premolar. A dark grayish brown tooth stain was observed on the maxillary and mandibular dentition, specifically the right maxillary second molar, the right maxillary first molar, the right mandibular first premolar and the right mandibular second premolar. The maxillary molars also appear to be very polished. Gold fillings were observed on the mesial interproximal and occlusal surfaces of the right maxillary second molar, the buccal and occlusal surfaces of the right maxillary first molar, the buccal surface of the right maxillary second premolar, the buccal surface of the left maxillary first premolar, the buccal surface of the left maxillary second premolar, the occlusal surface of the left maxillary second molar, the occlusal surface of the left maxillary third molar, the occlusal surface of the left mandibular third molar and the occlusal surface of the right mandibular first premolar. All the gold fillings on the buccal surfaces were located at the CEJ and the gold fillings on the occlusal surfaces were at the center or very close to the center of the tooth. One metal filling was observed on the occlusal surface of the right maxillary first molar.

Osteological Summary for 15E

This individual is represented by a partial skull with teeth and upper and lower limb bones. The individual was determined to be an adult female of mixed ancestry. The dentition exhibited antemortem tooth loss, hypoplasias, tooth staining possibly from a habitual activity, carious lesions with gold and metal fillings and minor dental wear.

15E
 Sex: Female
 Age: Adult
 Ancestry: Mixed
 Height: indeterminate
 Skeletal Pathology: none observed
 Dental Pathology: Antemortem Tooth Loss, Hypoplasias, Teeth Staining, Carious Lesions with Gold Fillings



15E Skeletal Elements Represented												
Element Name	Axial MNE	Left MNE	Right MNE	Indet. MNE	Element Name	Left MNE	Right MNE	Indet. MNE	Element Name	Left MNE	Right MNE	Indet. MNE
Skull					Teeth				capitate			
frontal	1				upper I1				hamate			
parietal		1	1		upper I2				Metacarpals			
occipital	1				upper C	1			Phalanges			
temporal		1	1		upper PM1	1			proximal			
sphenoid					upper PM2	1	1		middle			
zygomatic			1		upper M1	1	1		distal			
maxilla		1	1		upper M2	1	1		Lower Limb			
palatine					upper M3				os coxae			
nasal					lower I1				femur	1	1	
ethmoid					lower I2				tibia	1	1	
lacrima					lower C	1			fibula			
vomer					lower PM1	1	1		patella			
mandible	1				lower PM2	1	1		Ankle			
hyoid					lower M1		1		talus			
Vertebrae					lower M2	1	1		calcaneus			
cervical					lower M3	1			navicular			
c1					Upper Limb				medial cun.			
c2					clavicle				interm. cun.			
c3-7					scapula				lat.cuneiform			
thoracic					humerus				cuboid			
t1-t12					radius				Metatarsals			
lumbar					ulna				Phalanges			
l1-5					Wrist				proximal			
sacral					scaphoid				middle			
s1					lunate				distal			
s2-5					triquetrum							
coccyx					pisiform							
Sternum					trapezium							
Ribs					trapezoid							

Figure3.20. Skeletal Summary 15E

RECOVERY 16E

Mortuary Attributes

Burial Orientation

The burial was oriented with the head to the southwest and the feet to the northeast.

Coffin Shape and Size

The remnants of the coffin and/or distinct outline of differently colored soil indicated that the coffin was hexagonal in shape. The coffin length was 75 inches (190.5 cm), was 17 inches (43.18 cm) at its maximum width and was 9 inches (22.86 cm) at its minimum width.

Hardware

Seventeen non-diagnostic nail fragments were recovered.

Cultural Attributes

Clothing

Thirteen ferrous buttons were recovered, six shank-style coat-size with diamond patterns, four four-hole, one two-hole and two non-identifiable. Twelve strips of leather fragments with non-ferrous rivets were recovered from the torso area. Also recovered were two brown, woven fabric garment fragments and multiple leather shoe fragments with non-ferrous screws and eyelets.

Other Personal Artifacts

Fourteen fragments of one vulcanized rubber, foldable comb made by the India Rubber Comb Company and nine fragments of a clay pipe manufactured in Glasgow, Scotland were recovered.

Other Inclusions or Offerings

One .44 caliber bullet, one 1858 Seated Liberty quarter and one illegible Shield nickel were recovered. Two unidentified ferrous fragments were also recovered.

Relevant Field Notes

An assemblage of grave goods found during recovery led us to consider that people interred in this area might be from a different cultural group than in the previous areas.

Summary and Estimated Date of Burial

Rimmed, internal centerfire bullets date to before the 1890s, while the interment dates of the cemetery were between 1877 and 1922. The estimated date of burial is between 1877 and 1890.

Osteological Attributes

Inventory and Preservation

This individual is represented by a complete skull, dentition and 70% of the post-cranial skeleton (Figure 3.21). The cranial vault is in good condition but the facial bones and mandible are fragmented. The upper and lower limb bones, vertebrae and ribs are in poor condition and fragmented.

Age

The age of the individual was determined to be an adolescent based on the incomplete fusion of the sternal epiphysis of the right clavicle (16-33 years) and the incomplete eruption of the left mandibular third molar (>21 years).

Sex

The sex of the individual was determined to be female based on the nuchal crest, mastoid processes, supraorbital margins, glabella, mental eminence, greater sciatic notch of the right os coxa and morphology of the cranium and mandible.

Stature

Could not be determined due to missing elements.

Ancestry

The ancestry of the individual was determined to be Euro-American based on the cranial morphology.

Skeletal Pathology

No pathological conditions were observed on the recovered remains.

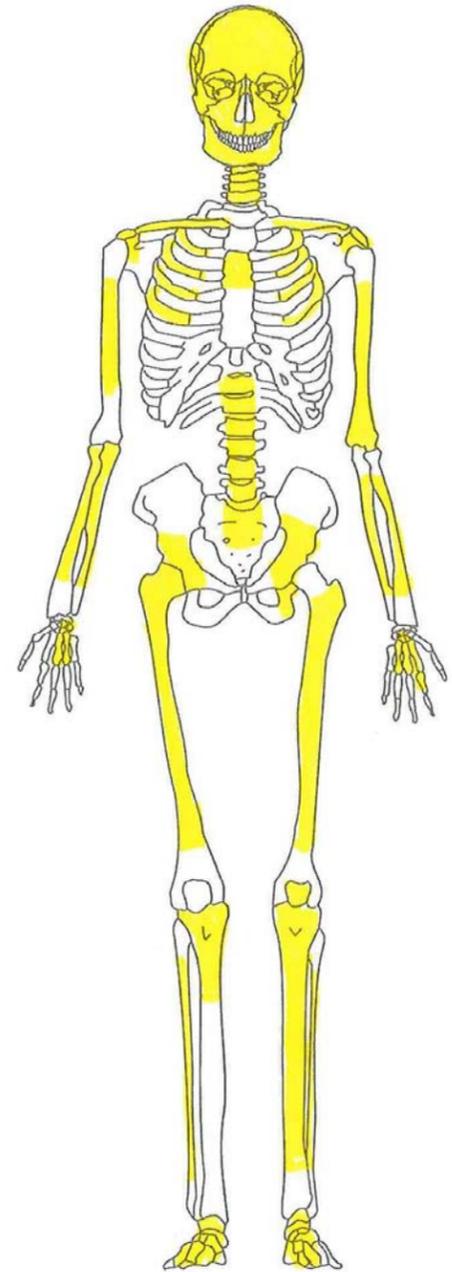
Dental Pathology

Minor dental wear was observed on the teeth recovered. The pattern of wear on the anterior teeth indicated the presence of an overbite. Linear horizontal hypoplastic grooves were observed 2.57 mm from the CEJ on the left maxillary canine, 2.58 mm from the CEJ on the right maxillary canine, 3.93 mm from the CEJ on the left maxillary first molar, 3.46 mm from the CEJ on the right maxillary first molar, 2.48 mm from the CEJ on the left maxillary second molar, 3.66 mm from the CEJ on the right maxillary second molar, 2.04 mm from the CEJ on the left maxillary third molar, 2.19 mm from the CEJ on the right maxillary third molar, 4.28 mm and 5.66 mm from the CEJ on the left mandibular first incisor, 3.91 mm and 5.48 mm from the CEJ on the right mandibular first incisor, 4.44 mm and 6.53 mm from the CEJ on the left mandibular second incisor, 3.35 mm and 4.48 mm from the CEJ on the right mandibular second incisor, 2.88 mm and 5.06 mm from the CEJ on the left mandibular canine and 3.96 mm from the CEJ on the right mandibular canine. Non-linear hypoplastic pits were observed on the left maxillary canine, right maxillary canine, left maxillary third molar, left mandibular canine and right mandibular first premolar.

Osteological Summary for 16E

This individual was represented by a complete skull and a fairly post-cranial skeleton and determined to be an adolescent female of Euro-American ancestry with minor dental wear, an overbite and hypoplasias.

16E
 Sex: Female
 Age: Adolescent
 Ancestry: Euro-American
 Height: indeterminate
 Skeletal Pathology: none observed
 Dental Pathology: Hypoplasias



16E Skeletal Elements Represented												
Element Name	Axial MNE	Left MNE	Right MNE	Indet. MNE	Element Name	Left MNE	Right MNE	Indet. MNE	Element Name	Left MNE	Right MNE	Indet. MNE
Skull					Teeth				capitate			
frontal	1				upper I1	1	1		hamate			
parietal		1	1		upper I2	1	1		Metacarpals	3	2	
occipital	1				upper C	1	1		Phalanges			
temporal		1	1		upper PM1	1	1		proximal	1		
sphenoid	1				upper PM2	1	1		middle			
zygomatic		1	1		upper M1	1	1		distal			
maxilla		1	1		upper M2	1	1		Lower Limb			
palatine		1	1		upper M3	1	1		os coxae	1	1	
nasal		1	1		lower I1	1	1		femur	1	1	
ethmoid	1				lower I2	1	1		tibia	1	1	
lacrimial		1	1		lower C	1	1		fibula	1	1	
vomer					lower PM1	1	1		patella	1		
mandible	1				lower PM2	1	1		Ankle			
hyoid					lower M1	1	1		talus	1	1	
Vertebrae					lower M2	1	1		calcaneus	1	1	
cervical					lower M3	1	1		navicular		1	
c1	1				Upper Limb				medial cun.		1	
c2	1				clavicle	1	1		interm. cun.		1	
c3-7	3				scapula	1	1		lat.cuneiform	1	1	
thoracic					humerus	1	1		cuboid			
t1-t12	5				radius	1	1		Metatarsals	4	3	
lumbar					ulna	1	1		Phalanges			
l1-5	4				Wrist				proximal		2	
sacral					scaphoid		1		middle			
s1					lunate				distal			
s2-5	1				triquetrum		1					
coccyx					pisiform							
Sternum	1				trapezium	1						
Ribs				8	trapezoid							

Figure 3.21. Skeletal Summary 16E

RECOVERY 17E

Mortuary Attributes

Burial Orientation

The burial was oriented with the head to the southwest and the feet to the northeast.

Coffin Shape and Size

The remnants of the coffin and/or distinct outline of differently colored soil indicated that the coffin was hexagonal in shape. The coffin length was 74 inches (187.96 cm), was 20 inches (50.8 cm) at its maximum width and was 7 inches (17.78 cm) at its minimum width.

Hardware

No hardware was recovered.

Cultural Attributes

Clothing

One ceramic, four-hole, dish-style button was recovered.

Other Personal Artifacts

No other personal artifacts were recovered.

Other Inclusions or Offerings

No other inclusions or offerings were recovered.

Summary and Estimated Date of Burial

Prosser process buttons were manufactured between 1849 and 1910, while the interment dates of the cemetery were between 1879 and 1922. The estimated date of burial is between 1879 and 1910.

Osteological Attributes

Inventory and Preservation

This individual is represented by a relatively complete skull, dentition and about 75% of the post-cranial skeleton (Figure 3.22). The cranium and mandible are in good condition, but fragmented. The post-cranial skeleton consists of the upper and lower limbs, cervical vertebrae and the os coxae. The bone is in fair condition, but fragmented.

Age

The age of the individual was determined to be an adult based on the fusion of the femoral head (>21 years).

Sex

The sex of the individual was determined to be male based on the mastoid process, nuchal crest and supraorbital margins.

Stature

Could not be determined due to missing elements.

Ancestry

The ancestry of the individual was determined to be Asian based on the nasal morphology.

Skeletal Pathology

The individual exhibited abnormal periosteal bone formation on the femora, tibiae and fibulae. The periosteal reactions are at different stages. The infection was apparently active at the time of death on the right femur, right tibia and left tibia. The periosteal reaction appears to be healed or is in the process of healing on the remaining lower limbs.

The frontal bone exhibited abnormal bone formation of the inter table (10.61mm at its thickest) and a possible healed lesion of the left side, slightly superior to the zygomatic process of the frontal bone. This may be due to the same infection active on the limb bones.

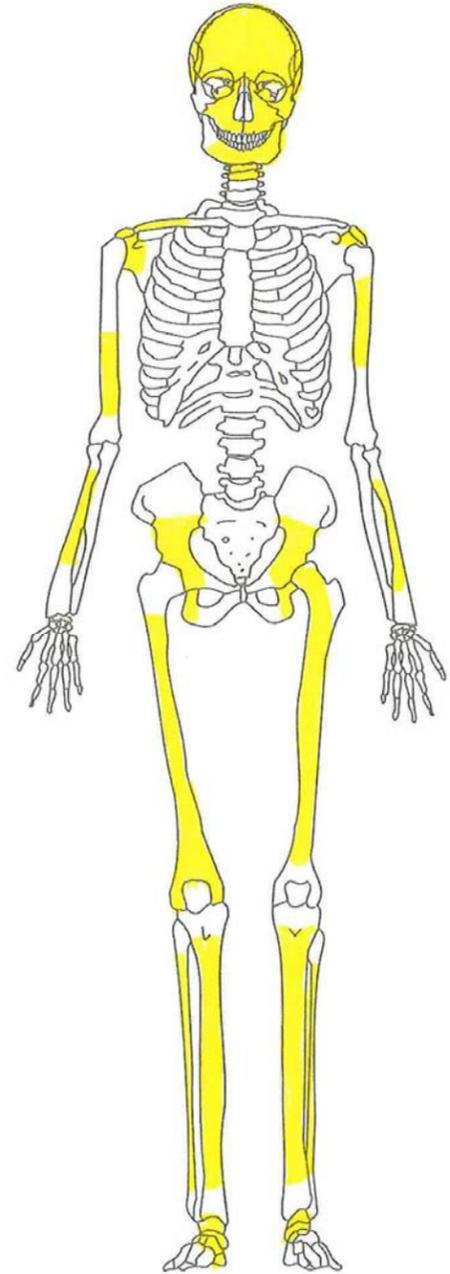
Dental Pathology

Moderate wear was observed on the most of the teeth recovered. The individual exhibited extensive dental wear on the left maxillary incisors. Hypoplasia in the form of linear horizontal grooves were found 2.99 mm from the CEJ on the right maxillary second premolar and 2.48 mm from CEJ on the left mandibular first molar. The left mandibular canine exhibited a non-linear array of pits 6.13 mm from CEJ. There was antemortem tooth loss of the left mandibular second and third molars.

Osteological Summary for 17E

This individual is represented by a skull with dentition 75% of the post-cranial skeleton. The individual was determined to be an adult male of Asian ancestry with periosteal bone formation, endosteal bone formation, healed lesions, hypoplasias, moderate to extensive dental wear and antemortem tooth loss.

17E
 Sex: Male
 Age: Adult
 Ancestry: Asian
 Height: indeterminate
 Skeletal Pathology: Periosteal Bone Formation, Endosteal Bone Formation, Healed lesion
 Dental Pathology: Antemortem Tooth Loss, Hypoplasia, Extensive Wear



17E Skeletal Elements Represented												
Element Name	Axial MNE	Left MNE	Right MNE	Indet. MNE	Element Name	Left MNE	Right MNE	Indet. MNE	Element Name	Left MNE	Right MNE	Indet. MNE
Skull					Teeth				capitate			
frontal	1				upper I1	1			hamate			
parietal		1	1		upper I2	1			Metacarpals			
occipital	1				upper C		1		Phalanges			
temporal		1	1		upper PM1	1	1		proximal			
sphenoid					upper PM2	1	1		middle			
zygomatic		1			upper M1	1	1		distal			
maxilla		1	1		upper M2	1	1		Lower Limb			
palatine					upper M3				os coxae	1	1	
nasal					lower I1				femur	1	1	
ethmoid					lower I2				tibia	1	1	
lacrimial					lower C	1			fibula	1	1	
vomer					lower PM1	1			patella			
mandible	1				lower PM2	1			Ankle			
hyoid					lower M1	1	1		talus	1	1	
Vertebrae					lower M2				calcaneus		1	
cervical					lower M3				navicular			
c1	1				Upper Limb				medial cun.			
c2	1				clavicle		1		interm. cun.			
c3-7					scapula	1	1		lat.cuneiform			
thoracic					humerus	1	1		cuboid			
t1-t12					radius	1	1		Metatarsals			
lumbar					ulna				Phalanges			
l1-5					Wrist				proximal			
sacral					scaphoid				middle			
s1					lunate				distal			
s2-5					triquetrum							
coccyx					pisiform							
Sternum					trapezium							
Ribs					trapezoid							

Figure 3.22. Skeletal Summary 17E

RECOVERY 18E

Mortuary Attributes

Burial Orientation

The burial was oriented with the head to the southwest and the feet to the northeast.

Coffin Shape and Size

The burial was heavily impacted by earlier construction, hindering an accurate determination of shape and size.

Hardware

No hardware was recovered.

Cultural Attributes

Clothing

One ceramic, four-hole, dish-style button, one fabric-covered ferrous button with a non-ferrous rivet and four non-ferrous eyelets set into strips of leather were recovered.

Other Personal Artifacts

No other personal artifacts were recovered.

Other Inclusions or Offerings

No other inclusions or offerings were recovered.

Relevant Field Notes

The recovery found partially impacted by the previous installation of a masonry block wall and gate for the LACC on 1st Street.

Summary and Estimated Date of Burial

Prosser process buttons were manufactured between 1849 and 1910, while the interment dates of the cemetery were between 1879 and 1922. The estimated date of burial is between 1879 and 1910.

Osteological Attributes

Inventory and Preservation

This individual is mainly represented by the upper and lower limb bones and os coxae (Figure 3.23). The bone is in fair condition, but fragmented.

Age

The age of the individual was determined to be a young adult based on the phase of the auricular surface of the right os coxa (30-34 years).

Sex

The sex of the individual was determined to be female based on the greater sciatic notches of the os coxae and the vertical diameter of the right femoral head (42.96 mm).

Stature

Could not be determined due to missing elements.

Ancestry

Could not be determined due to missing elements.

Skeletal Pathology

No pathological conditions were observed on the recovered remains.

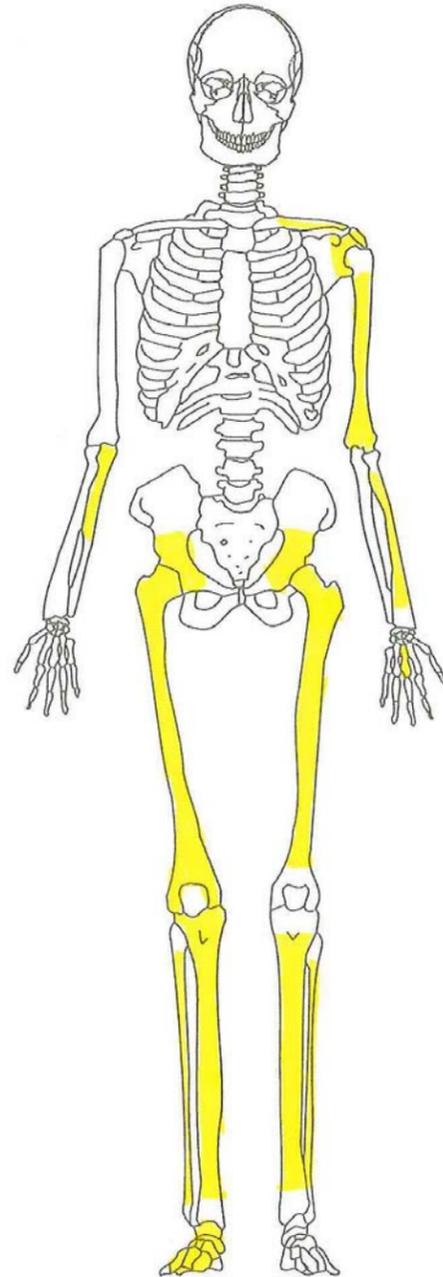
Dental Pathology

Could not be determined due to missing elements.

Osteological Summary for 18E

This individual was mainly represented by the upper and lower limb bones and determined to be a young adult female.

18E
 Sex: Female
 Age: Young Adult
 Ancestry: indeterminate
 Height: indeterminate
 Skeletal Pathology: none observed
 Dental Pathology: indeterminate



18E Skeletal Elements Represented												
Element Name	Axial MNE	Left MNE	Right MNE	Indet. MNE	Element Name	Left MNE	Right MNE	Indet. MNE	Element Name	Left MNE	Right MNE	Indet. MNE
Skull					Teeth				capitate			
frontal					upper I1				hamate			
parietal					upper I2				Metacarpals	1		
occipital					upper C				Phalanges			
temporal					upper PM1				proximal			
sphenoid					upper PM2				middle			
zygomatic					upper M1				distal			
maxilla					upper M2				Lower Limb			
palatine					upper M3				os coxae	1	1	
nasal					lower I1				femur	1	1	
ethmoid					lower I2				tibia	1	1	
lacrimial					lower C				fibula	1	1	
vomer					lower PM1				patella			
mandible					lower PM2				Ankle			
hyoid					lower M1				talus		1	
Vertebrae					lower M2				calcaneus		1	
cervical					lower M3				navicular		1	
c1					Upper Limb				medial cun.			
c2					clavicle	1			interm. cun.			
c3-7					scapula	1			lat.cuneiform			
thoracic					humerus	1			cuboid			
t1-t12					radius	1			Metatarsals		4	
lumbar					ulna		1		Phalanges			
l1-5					Wrist				proximal			1
sacral					scaphoid				middle			
s1					lunate				distal			
s2-5					triquetrum							
coccyx					pisiform							
Sternum					trapezium							
Ribs					trapezoid							

Figure 3.23. Skeletal Summary 18E

RECOVERY 19E

Mortuary Attributes

Burial Orientation

The burial was oriented with the head to the southwest and the feet to the northeast.

Coffin Shape and Size

The remnants of the coffin and/or distinct outline of differently colored soil indicated that the coffin was hexagonal in shape. The coffin length was 68 inches (172.72 cm), was 18 inches (45.72 cm) at its maximum width and was 8 inches (20.32 cm) at its minimum width.

Hardware

Ten non-diagnostic nail fragments were recovered.

Cultural Attributes

Clothing

Six ceramic buttons were recovered, four four-hole, dish-style buttons and one four-hole, pie crust-style button with remnants of blue paint on the rim. Five fragments of one ferrous buckle, eight fabric-covered, ferrous buttons with non-ferrous rivets, two ferrous, four-hole buttons and one unidentified button were also recovered.

Other Personal Artifacts

No other personal artifacts were recovered.

Other Inclusions or Offerings

One commercially-butchered beef round steak bone was recovered from beside the left humerus.

Summary and Estimated Date of Burial

Prosser process buttons were manufactured between 1849 and 1910, while the interment dates of the cemetery were between 1879 and 1922. The estimated date of burial is between 1879 and 1910.

Osteological Attributes

Inventory and Preservation

This individual is represented by a partial skull, dentition and 75% of the post-cranial skeleton (Figure 3.24). The cranium and the mandible are fragmentary and only maxillary dentition was recovered. The post-cranial skeleton consists of upper and lower limbs, cervical vertebra and sacral fragment. The bone is in fair, but fragmented condition.

Age

The age of the individual was determined to be an adult based on the development and eruption of the right mandibular third molar (>21 years).

Sex

The sex of the individual was determined to be possibly female based on the mandibular morphology.

Stature

Could not be determined due to missing elements.

Ancestry

The ancestry of the individual was determined to be Asian based on dental morphology.

Skeletal Pathology

No pathological conditions were observed on the recovered remains.

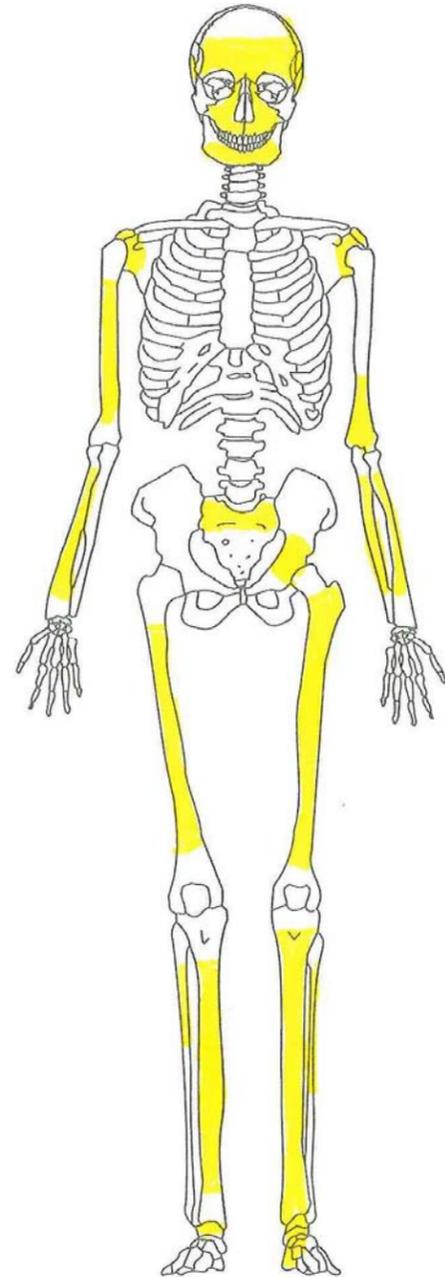
Dental Pathology

Moderate wear was observed on the teeth recovered. Hypoplasia in the form of linear horizontal grooves was observed 4.18 mm from CEJ on the right maxillary canine. A carious lesion was observed interproximal surface of the right maxillary second premolar.

Osteological Summary for 19E

This individual is represented by a partial skull with dentition, upper and lower limb bones and vertebrae. The individual was determined to be an adult female of Asian ancestry with carious lesions, moderate dental wear and hypoplasia.

19E
 Sex: Female
 Age: Adult
 Ancestry: Asian
 Height: indeterminate
 Skeletal Pathology: none observed
 Dental Pathology: Carious Lesions, Hypoplasia



19E Skeletal Elements Represented												
Element Name	Axial MNE	Left MNE	Right MNE	Indet. MNE	Element Name	Left MNE	Right MNE	Indet. MNE	Element Name	Left MNE	Right MNE	Indet. MNE
Skull					Teeth				capitate			
frontal	1				upper I1	1			hamate			
parietal				1	upper I2	1			Metacarpals			
occipital					upper C	1	1		Phalanges			
temporal		1	1		upper PM1	1	1		proximal			
sphenoid					upper PM2	1	1		middle			
zygomatic					upper M1	1	1		distal			
maxilla		1	1		upper M2	1	1		Lower Limb			
palatine					upper M3				os coxae	1		
nasal					lower I1				femur	1	1	
ethmoid					lower I2				tibia	1	1	
lacrima					lower C				fibula	1	1	
vomer					lower PM1				patella			
mandible	1				lower PM2				Ankle			
hyoid					lower M1				talus	1	1	
Vertebrae	1				lower M2				calcaneus			
cervical					lower M3				navicular	1		
c1					Upper Limb				medial cun.			
c2					clavicle				interm. cun.			
c3-7					scapula	1	1		lat.cuneiform			
thoracic					humerus	1	1		cuboid			
t1-t12					radius	1	1		Metatarsals			
lumbar					ulna	1			Phalanges			
l1-5					Wrist				proximal			
sacral	1				scaphoid				middle			
s1					lunate				distal			
s2-5					triquetrum							
coccyx					pisiform							
Sternum					trapezium							
Ribs					trapezoid							

Figure 3.24. Skeletal Summary 19E

RECOVERY 20E

Mortuary Attributes

Burial Orientation

The burial appeared to be oriented with the head to the southwest and the feet to the northeast.

Coffin Shape and Size

The burial was left in place as no further impacts were planned. Therefore neither shape nor size could be determined.

Hardware

No hardware was recovered.

Cultural Attributes

Clothing

No clothing-related artifacts were recovered.

Other Personal Artifacts

No other personal artifacts were recovered.

Other Inclusions or Offerings

No other inclusions or offerings were recovered.

Summary and Estimated Date of Burial

No artifacts were recovered that could accurately estimate the date of burial. The date of burial is estimated to be between the interment dates of the cemetery, 1879 to 1922.

Osteological Attributes

No bone was recovered as this burial was left in place.

RECOVERY 21E

Mortuary Attributes

Burial Orientation

The burial was oriented with the head to the southwest and the feet to the northeast.

Coffin Shape and Size

The remnants of the coffin and/or distinct outline of differently colored soil indicated that the coffin was hexagonal in shape. It was 71 inches (180.34 cm) long, 19 inches (48.26 cm) at its maximum width and 13 inches (33.02 cm) at its minimum width.

Hardware

No hardware was recovered.

Cultural Attributes

Clothing

Three ferrous buttons were recovered, two of which were four-hole. Also recovered were one ceramic, four-hole, dish-style button, two non-ferrous buttons, one vulcanized rubber button manufactured by the Novelty Rubber Company, one possible composition button and one non-ferrous suspender clasp.

Other Personal Artifacts

No other personal artifacts were recovered.

Other Inclusions or Offerings

No other inclusions or offerings were recovered

Summary and Estimated Date of Burial

The Novelty Rubber Company operated between 1855 and 1886, while the interment dates of the cemetery are between 1879 and 1922. The estimated date of burial is between 1879 and 1886.

Osteological Attributes

Inventory and Preservation

This individual is represented by a nearly complete skull, dentition and 70% of the post-cranial skeleton (Figure 3.25). The skull consists of the cranial vault, facial bones and mandible, which are in good, but fragmented condition. The upper and lower limbs were recovered in fair fragmented condition.

Age

The age of the individual was determined to be a middle adult based on the phase of the auricular surface of the right os coxa (35-39 years).

Sex

The sex of the individual was determined to be male based on the supraorbital margin, glabella, mental eminence, greater sciatic notch of the left os coxa and the vertical diameter of the left femoral head (50.28 mm).

Stature

Could not be determined due to missing elements.

Ancestry

Could not be determined due to missing elements.

Skeletal Pathology

A sharp ridge of osteophytic lipping was observed on 75% of the rim of the left patellar joint surface.

Dental Pathology

Minor wear was observed on the teeth recovered. The left mandibular first and second molars were lost antemortem. One carious lesion was found on the occlusal surface of the right maxillary first molar.

Osteological Summary for 21E

This individual is represented by relatively complete skull, some dentition and the upper and lower limbs. The individual was determined to be a middle adult male with osteoarthritis, antemortem tooth loss, a carious lesion and minor dental wear.

21E

Sex: Male

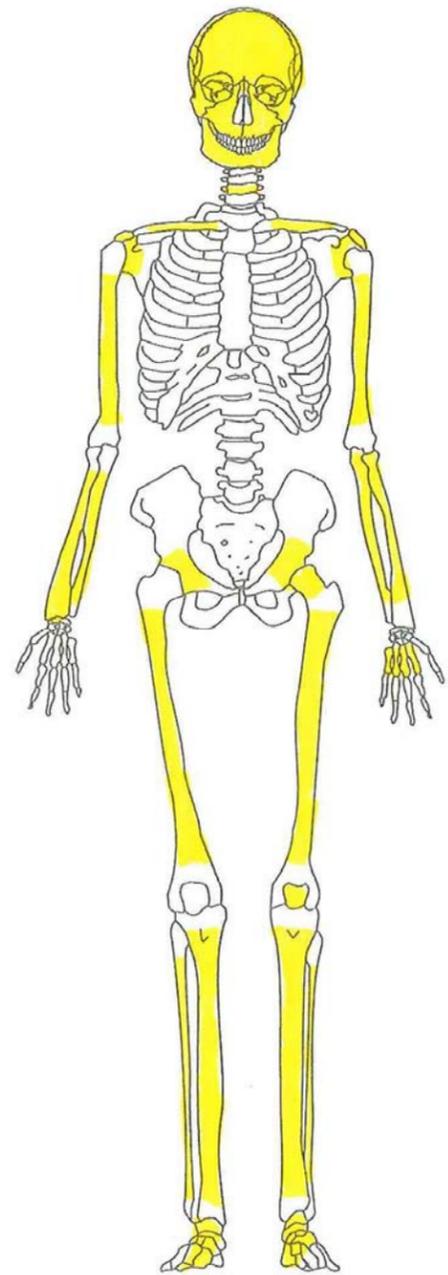
Age: Middle Adult

Ancestry: indeterminate

Height: indeterminate

Skeletal Pathology: Osteoarthritis

Dental Pathology: Antemortem Tooth Loss, Carious Lesion



21E Skeletal Elements Represented												
Element Name	Axial MNE	Left MNE	Right MNE	Indet. MNE	Element Name	Left MNE	Right MNE	Indet. MNE	Element Name	Left MNE	Right MNE	Indet. MNE
Skull					Teeth				capitate			
frontal	1				upper I1				hamate			
parietal		1	1		upper I2				Metacarpals			4
occipital	1				upper C	1	1		Phalanges			
temporal		1	1		upper PM1	1	1		proximal			
sphenoid	1				upper PM2		1		middle			
zygomatic		1	1		upper M1		1		distal			
maxilla		1	1		upper M2				Lower Limb			
palatine					upper M3				os coxae	1	1	
nasal		1	1		lower I1				femur	1	1	
ethmoid					lower I2				tibia	1	1	
lacrimial					lower C				fibula	1	1	
vomer					lower PM1		1		patella	1		
mandible	1				lower PM2	1			Ankle			
hyoid					lower M1				talus	1	1	
Vertebrae					lower M2				calcaneus	1	1	
cervical					lower M3				navicular			
c1					Upper Limb				medial cun.			
c2	1				clavicle	1	1		interm. cun.			
c3-7					scapula	1	1		lat.cuneiform			
thoracic					humerus	1	1		cuboid			
t1-t12					radius	1	1		Metatarsals	2		
lumbar					ulna	1	1		Phalanges			
l1-5					Wrist				proximal			
sacral					scaphoid				middle			
s1					lunate				distal			
s2-5					triquetrum							
coccyx					pisiform							
Sternum					trapezium							
Ribs					trapezoid							

Figure 3.25. Skeletal Summary 21E

RECOVERY 22E

Mortuary Attributes

Burial Orientation

The burial was oriented with the head to the southwest and the feet to the northeast.

Coffin Shape and Size

The remnants of the coffin and/or distinct outline of differently colored soil indicated that the coffin was hexagonal in shape. It was 78 inches (198.12 cm) long, 16 inches (40.64 cm) at its maximum width and 11 inches (27.94 cm) at its minimum width.

Hardware

No hardware was recovered.

Cultural Attributes

Clothing

Seven ceramic, four-hole, dish-style buttons were recovered. Three of these were found at the neck area and another three were found in the area of the chest. Five ferrous, four-hole buttons were recovered, three from the pelvic region. One fragment of leather with a non-ferrous rivet set into it was recovered.

Other Personal Artifacts

No other personal artifacts were recovered.

Other Inclusions or Offerings

No other inclusions or offerings were recovered.

Summary and Estimated Date of Burial

Prosser process buttons were manufactured between 1849 and 1910, while the interment dates of the cemetery were between 1879 and 1922. The estimated date of burial is between 1879 and 1910.

Osteological Attributes

Inventory and Preservation

This individual is represented by a partial skull and 70% of the post-cranial skeleton (Figure 3.26). The skull consists on the cranial vault and mandible and is in poor condition. The upper and lower limbs and some vertebrae were recovered in fair condition, but fragmented and friable.

Age

The age of the individual was determined to be a middle to old adult based on the phase of the auricular surface of the right os coxa (40-59 years).

Sex

The sex of the individual was determined to be female based on the greater sciatic notch of the right os coxa.

Stature

Could not be determined due to missing elements.

Ancestry

Could not be determined due to missing elements.

Skeletal Pathology

No pathological conditions were observed on the recovered remains.

Dental Pathology

There was antemortem tooth loss of the left and right mandibular first, second and third molars.

Osteological Summary for 22E

This individual was mainly represented by a partial cranium and limb bones and determined to be a middle to old adult female with antemortem tooth loss.

22E

Sex: Female

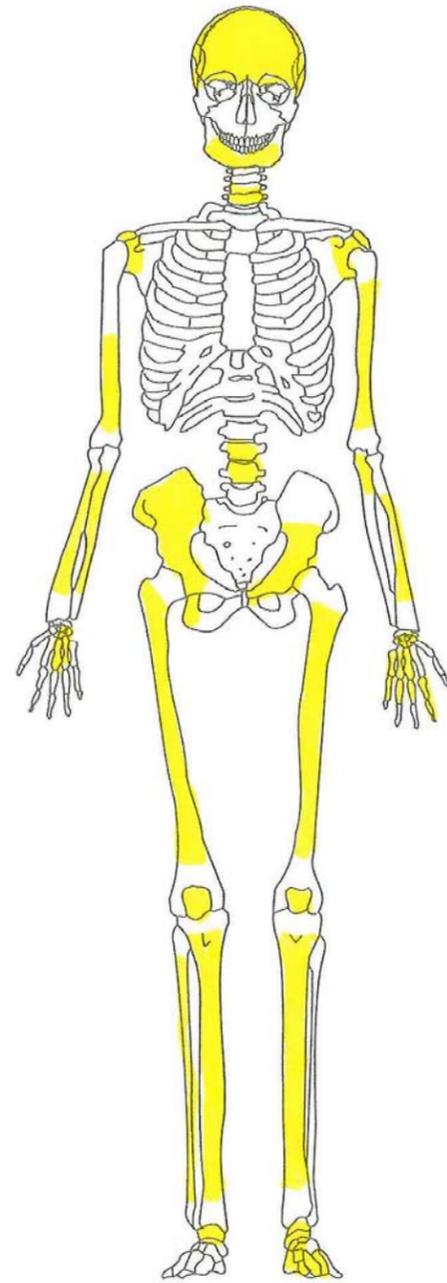
Age: Middle to Old Adult

Ancestry: indeterminate

Height: indeterminate

Skeletal Pathology: none observed

Dental Pathology: Antemortem Tooth Loss



22E Skeletal Elements Represented												
Element Name	Axial MNE	Left MNE	Right MNE	Indet. MNE	Element Name	Left MNE	Right MNE	Indet. MNE	Element Name	Left MNE	Right MNE	Indet. MNE
Skull					Teeth				capitate	1	1	
frontal	1				upper I1				hamate			
parietal		1	1		upper I2				Metacarpals	3	2	
occipital	1				upper C				Phalanges			
temporal		1	1		upper PM1				proximal			4
sphenoid					upper PM2				middle			1
zygomatic					upper M1				distal			
maxilla					upper M2				Lower Limb			
palatine					upper M3				os coxae	1	1	
nasal					lower I1				femur	1	1	
ethmoid					lower I2				tibia	1	1	
lacrimial					lower C		1		fibula		1	
vomer					lower PM1				patella	1	1	
mandible	1				lower PM2				Ankle			
hyoid					lower M1				talus	1	1	
Vertebrae					lower M2				calcaneus	1		
cervical					lower M3				navicular			
c1					Upper Limb				medial cun.			
c2					clavicle				interm. cun.			
c3-7	2				scapula	1	1		lat.cuneiform			
thoracic					humerus	1	1		cuboid			
t1-t12	3				radius	1	1		Metatarsals	4		
lumbar					ulna	1	1		Phalanges			
l1-5	2				Wrist				proximal			
sacral					scaphoid		1		middle			
s1					lunate	1	1		distal			
s2-5					triquetrum		1					
coccyx					pisiform							
Sternum					trapezium	1	1					
Ribs					trapezoid		1					

Figure 3.26. Skeletal Summary 22E

RECOVERY 23E

Mortuary Attributes

Burial Orientation

The burial was oriented with the head to the southwest and the feet to the northeast.

Coffin Shape and Size

The remnants of the coffin and/or distinct outline of differently colored soil indicated that the coffin was hexagonal in shape. It was 72 inches (182.88 cm) long, 17 inches (43.18 cm) at its maximum width and 10 inches (25.4 cm) at its minimum width.

Hardware

No hardware was recovered.

Cultural Attributes

Clothing

One ceramic, four-hole, pie crust-style button was recovered.

Other Personal Artifacts

No other personal artifacts were recovered.

Other Inclusions or Offerings

No other inclusions or offerings were recovered.

Summary and Estimated Date of Burial

Prosser process buttons were manufactured between 1849 and 1910, while the interment dates of the cemetery were between 1879 and 1922. The estimated date of burial is between 1879 and 1910.

Osteological Attributes

Inventory and Preservation

This individual is represented by a complete skull with dentition and 90% of the post-cranial skeleton (Figure 3.27). The post-cranial skeleton is nearly complete except for the vertebrae and ribs. The bone is in good condition, but some is fragmented.

Age

The age of the individual was determined to be a middle to old adult based on the presence of osteoarthritis (>40 years).

Sex

The sex of the individual was determined to be male based on cranial morphology, the greater sciatic notches of the os coxae and the vertical diameter of the left femoral head (49.96 mm).

Stature

The height of the individual was determined to be 5 feet and 6.2 inches (168.15 cm) based on the length of the left femur.

Ancestry

The ancestry of the individual was determined to be Asian based on cranial morphology.

Skeletal Pathology

Abnormal periosteal bone formation was observed on the left clavicle, a left rib, right ulna, femora, tibiae and left fibula. The infection was healing at the time of death except for the left rib, which was active at the time of death.

The left frontal exhibited a depression with microporosity superior to the supraorbital ridge. The intra-trochanter fossae on both femora exhibited round projecting bone formations. The thoracic vertebrae exhibited enthesiopathies on both the superior and inferior surfaces of the articular facets. There was osteoarthritis apparent on the cervical vertebrae specifically on the sixth cervical vertebra. The third to sixth cervical vertebrae were fused at the articular facets and partially at the bodies.

Dental Pathology

Moderate wear was observed on the anterior teeth and minor wear was found on the molars. The individual exhibited hypoplasia, hypercementosis, carious lesions, pulp chamber exposure, tooth staining, abscesses, an impacted tooth and antemortem tooth loss. Hypoplasias in the form of horizontal linear grooves were observed 4.58 mm and 2.99 mm from CEJ on the right maxillary canine, 5.73 mm from CEJ on the right maxillary second incisor and 3.57 mm from CEJ on the left mandibular canine. The right maxillary first incisor exhibited a vertical linear groove. The right maxillary second molar exhibited hypercementosis. Caries lesions were observed on the occlusal surface of the right maxillary second molar, entire crown of the right maxillary right premolar, the distal interproximal surface of the right maxillary canine, the lingual and root surfaces of the right maxillary first incisor, the lingual surface of the left maxillary first incisor, the distal interproximal surface of the left maxillary canine, the distal interproximal surface of the right mandibular second incisor and the mesial interproximal surface of the right mandibular canine. The pulp chamber was exposed on the left maxillary second incisor, the left maxillary first premolar and the left maxillary second premolar. Tooth staining was observed on the maxillary first incisors. The stain was a dark reddish tone on the labial and mesial surfaces. An abscess at the root apex was observed on the maxilla corresponding to the left maxillary second incisor (lingual perforation), the left maxillary canine (buccal perforation) and the left maxillary second premolar (buccal perforation). There was an impacted left mandibular third molar. There was antemortem tooth loss of the left mandibular first premolar, second premolar, first molar and second molar; and the right mandibular second premolar, first molar, second molar and third molar.

Osteological Summary for 23E

This individual is represented by a nearly complete skeleton. The individual was determined to be a middle to old adult male of Asian ancestry. The height was determined to be 5 feet and 6.2 inches (168.15 cm). Periosteal bone formation, a depression on the frontal bone, osteoarthritis, enthesiopathies, vertebral fusion, minor to moderate dental wear, hypoplasias, hypercementosis, pulp chamber exposure, tooth staining, abscesses, an impacted tooth, antemortem tooth loss and carious lesions were observed.

23E

Sex: Male

Age: Middle to Old Adult

Ancestry: Asian

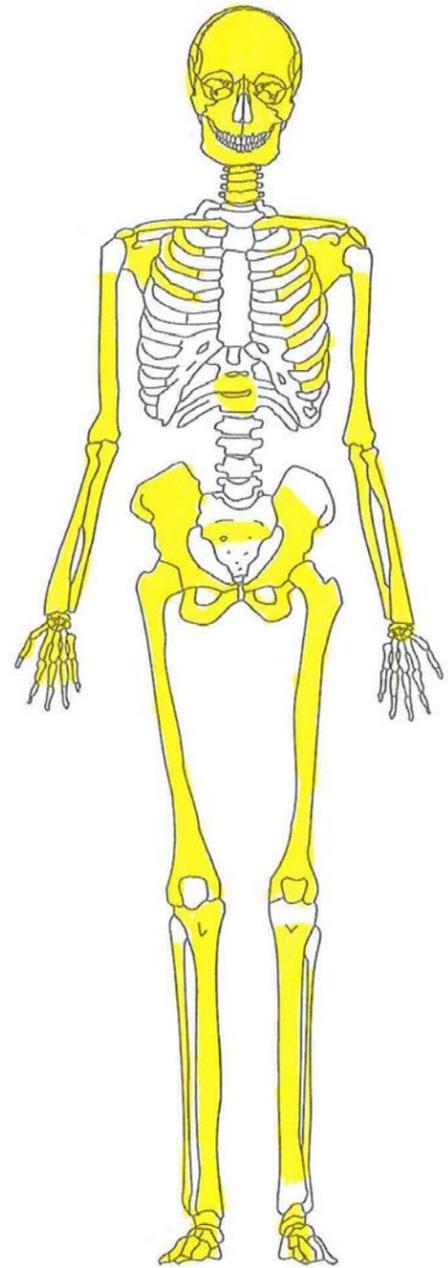
Height: 5' 6.2" (168.15 cm)

Skeletal Pathology: Periosteal Bone Formation, Depression on Frontal Bone, Osteoarthritis,

Enthesiopathies, Vertebral Fusion

Dental Pathology: Hypoplasia, Hypercementosis, Pulp Chamber Exposure, Teeth

Staining, Abscesses, Impacted Tooth, Antemortem Tooth Loss, Carious Lesion



23E Skeletal Elements Represented												
Element Name	Axial MNE	Left MNE	Right MNE	Indet. MNE	Element Name	Left MNE	Right MNE	Indet. MNE	Element Name	Left MNE	Right MNE	Indet. MNE
Skull					Teeth				capitate		1	
frontal	1				upper I1	1	1		hamate	1	1	
parietal		1	1		upper I2	1	1		Metacarpals		5	
occipital	1				upper C	1	1		Phalanges			
temporal		1	1		upper PM1	1	1		proximal		5	
sphenoid	1				upper PM2	1			middle			
zygomatic		1	1		upper M1				distal			
maxilla		1	1		upper M2		1		Lower Limb			
palatine		1	1		upper M3				os coxae	1	1	
nasal		1	1		lower I1				femur	1	1	
ethmoid					lower I2				tibia	1	1	
lacrimial		1	1		lower C	1	1		fibula	1	1	
vomer	1				lower PM1				patella	1		
mandible	1				lower PM2				Ankle			
hyoid					lower M1				talus	1	1	
Vertebrae					lower M2				calcaneus			
cervical					lower M3				navicular	1	1	
c1	1				Upper Limb				medial cun.			
c2	1				clavicle	1	1		interm. cun.	1		
c3-7	5				scapula	1	1		lat.cuneiform		1	
thoracic					humerus	1	1		cuboid	1	1	
t1-t12	7				radius	1	1		Metatarsals	2	3	
lumbar					ulna	1	1		Phalanges			
l1-5					Wrist				proximal			
sacral					scaphoid	1			middle			
s1					lunate				distal			
s2-5	1				triquetrum							
coccyx					pisiform	1						
Sternum					trapezium		1					
Ribs		7	3		trapezoid	1	1					

Figure 3.27. Skeletal Summary 23E

RECOVERY 24E

Mortuary Attributes

Burial Orientation

The burial was oriented with the head to the southwest and the feet to the northeast.

Coffin Shape and Size

The remnants of the coffin and/or distinct outline of differently colored soil indicated that the coffin was rectangular in shape. The coffin length was 70 inches (177.8 cm) and was (38.1 cm) wide.

Hardware

No hardware was recovered.

Cultural Attributes

Clothing

Six leather shoe fragments with non-ferrous screws, one ceramic, two-hole, china mound-style button with a light blue painted rim, two ferrous, shank-style buttons and one ferrous buckle were recovered.

Other Personal Artifacts

No other personal artifacts were recovered.

Other Inclusions or Offerings

No other inclusions or offerings were recovered.

Summary and Estimated Date of Burial

Prosser process buttons were manufactured between 1849 and 1910, while the interment dates of the cemetery were between 1879 and 1922. The estimated date of burial is between 1879 and 1910.

Osteological Attributes

Inventory and Preservation

This individual is represented by cranial fragments, dentition and 50% of the post-cranial skeleton (Figure 3.28). The bone is in poor condition.

Age

The age of the individual was determined to be a middle to old adult based on the presence of osteoarthritis on joint surfaces (>40 years).

Sex

The sex of the individual was determined to be female based on the mastoid process, mental eminence and mandibular morphology.

Stature

Could not be determined due to missing elements.

Ancestry

The ancestry of the individual was determined to be Asian based on nasal morphology.

Skeletal Pathology

Osteoarthritis was present in the form of a sharp osteophytic ridge around the trochlear notch of the left ulna and barely discernible lipping around the left femoral head.

Dental Pathology

Minor to moderate dental wear was observed on the anterior teeth and moderate to extensive wear was found on the molars. Non-linear array of hypoplastic pits were observed on the left maxillary and left mandibular canines.

Osteological Summary for 24E

This individual was represented by cranial fragments, dentition and limb bones and determined to be a middle to old adult female of Asian ancestry with osteoarthritis, hypoplasias and minor to extensive dental wear.

24E

Sex: Female

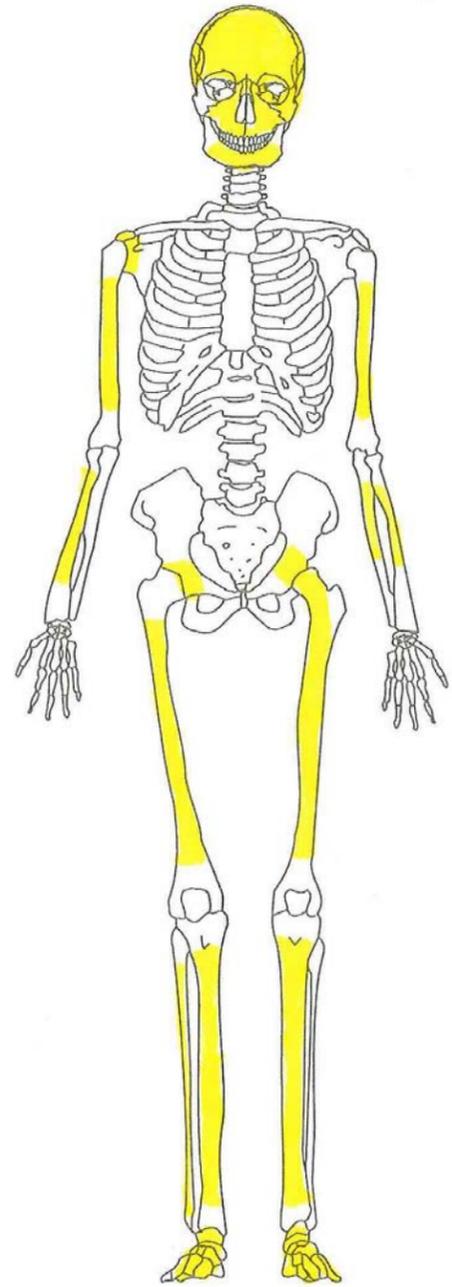
Age: Middle to Old Adult

Ancestry: Asian

Height: indeterminate

Skeletal Pathology: Osteoarthritis

Dental Pathology: Extensive Wear, Hypoplasias



24E Skeletal Elements Represented												
Element Name	Axial MNE	Left MNE	Right MNE	Indet. MNE	Element Name	Left MNE	Right MNE	Indet. MNE	Element Name	Left MNE	Right MNE	Indet. MNE
Skull					Teeth				capitate			
frontal	1				upper I1				hamate			
parietal		1	1		upper I2				Metacarpals			
occipital	1				upper C	1			Phalanges			
temporal		1	1		upper PM1	1	1		proximal			
sphenoid					upper PM2	1	1		middle			
zygomatic		1			upper M1	1	1		distal			
maxilla		1	1		upper M2	1	1		Lower Limb			
palatine					upper M3				os coxae	1	1	
nasal					lower I1				femur	1	1	
ethmoid					lower I2				tibia	1	1	
lacrimial					lower C	1			fibula		1	
vomer					lower PM1	1			patella			
mandible	1				lower PM2	1	1		Ankle			
hyoid					lower M1	1			talus	1	1	
Vertebrae					lower M2		1		calcaneus	1	1	
cervical					lower M3				navicular	1	1	
c1					Upper Limb				medial cun.			
c2					clavicle				interm. cun.	1		
c3-7					scapula		1		lat.cuneiform	1		
thoracic					humerus	1	1		cuboid			
t1-t12					radius	1	1		Metatarsals	5	5	
lumbar					ulna	1			Phalanges			
l1-5					Wrist				proximal			3
sacral					scaphoid				middle			
s1					lunate				distal			
s2-5					triquetrum							
coccyx					pisiform							
Sternum					trapezium							
Ribs					trapezoid							

Figure 3.28. Skeletal Summary 24E

RECOVERY 25E

Mortuary Attributes

Burial Orientation

The burial was oriented with the head to the southwest and the feet to the northeast.

Coffin Shape and Size

The remnants of the coffin and/or distinct outline of differently colored soil indicated that the coffin was hexagonal in shape. It was 62 inches (157.48 cm) long, 15 inches (38.1 cm) at its maximum width and 8 inches (20.32 cm) at its minimum width.

Hardware

Eighteen non-diagnostic nail fragments were discarded.

Cultural Attributes

Clothing

Six ceramic, four-hole, dish-style buttons were recovered.

Other Personal Artifacts

No other personal artifacts were recovered.

Other Inclusions or Offerings

No other inclusions or offerings were recovered.

Summary and Estimated Date of Burial

Prosser process buttons were manufactured between 1849 and 1910, while the interment dates of the cemetery were between 1879 and 1922. The estimated date of burial is between 1879 and 1910.

Osteological Attributes

Inventory and Preservation

This individual is represented by relatively complete skull, dentition and 70% of the post-cranial skeleton (Figure 3.29). The skull is nearly complete including the cranial vault, facial bones and mandible. The bones are in good condition, but fragmented. The post-cranial skeleton consists of the upper and lower limbs and some vertebrae and ribs. The bone is in fair condition, but friable and fragmented.

Age

The age of the individual was determined to be a middle to old adult based on the closure of the external cranial vault sutures (30-60 years) and the presence of osteoarthritis (>40 years).

Sex

The sex of the individual was determined to be male based on the nuchal crest, mastoid process, supraorbital margins, glabella, mental eminence and greater sciatic notches of the os coxae.

Stature

Could not be determined due to missing elements.

Ancestry

The ancestry of the individual was determined to be Euro-American based on the presence of the metopic suture and nasal morphology.

Skeletal Pathology

Osteoarthritis was observed on most of the joint surfaces recovered. There was a sharp ridge of osteophytic development on the trochlear rim of the right humerus, trochlear notch of the right ulna, the left femoral head and the left and right patellae. Extensive spicule formation was observed on the rim of the left and right acetabula.

Dental Pathology

Minor to moderate dental wear was observed on the teeth recovered. There was evidence of antemortem tooth loss of the left mandibular first, second and third molars and the right mandibular third molar. Carious lesions were observed on the distal interproximal surface of the left maxillary first incisor, the mesial and distal interproximal surfaces of the left maxillary second incisor, the mesial interproximal surface of the left maxillary first premolar, the distal interproximal surface of the right maxillary first premolar, the distal interproximal surface of the left maxillary second molar and the mesial interproximal and cervical surfaces of the right mandibular second molar.

Osteological Summary for 25E

This individual was represented by a skull and post-cranial skeleton and determined to be a middle to old adult male of Euro-American ancestry with osteoarthritis, antemortem tooth loss, carious lesions and minor to moderate dental wear.

25E

Sex: Male

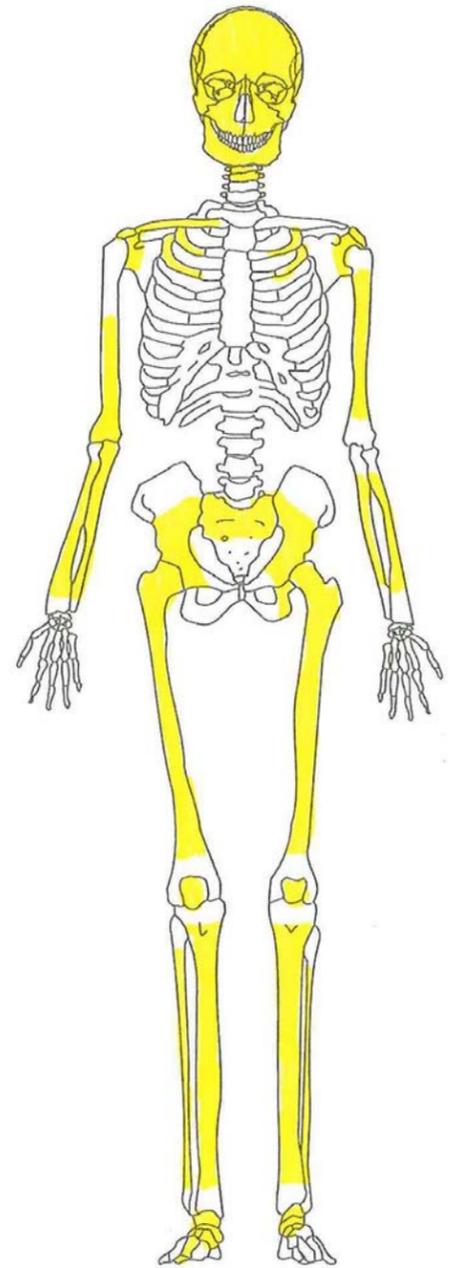
Age: Middle to Old Adult

Ancestry: Euro-American

Height: indeterminate

Skeletal Pathology: Osteoarthritis

Dental Pathology: Antemortem Tooth Loss, Carious Lesions



25E Skeletal Elements Represented												
Element Name	Axial MNE	Left MNE	Right MNE	Indet. MNE	Element Name	Left MNE	Right MNE	Indet. MNE	Element Name	Left MNE	Right MNE	Indet. MNE
Skull					Teeth				capitate			
frontal	1				upper I1	1			hamate			
parietal		1	1		upper I2	1			Metacarpals			
occipital	1				upper C	1	1		Phalanges			
temporal		1	1		upper PM1	1	1		proximal			
sphenoid	1				upper PM2		1		middle			
zygomatic		1	1		upper M1		1		distal			
maxilla		1	1		upper M2				Lower Limb			
palatine					upper M3	1			os coxae	1	1	
nasal		1	1		lower I1	1	1		femur	1	1	
ethmoid	1				lower I2	1	1		tibia	1	1	
lacrimial		1	1		lower C	1	1		fibula	1	1	
vomer					lower PM1	1	1		patella	1	1	
mandible	1				lower PM2	1			Ankle			
hyoid					lower M1				talus	1	1	
Vertebrae					lower M2		1		calcaneus	1	1	
cervical					lower M3				navicular			
c1	1				Upper Limb				medial cun.			
c2	1				clavicle		1		interm. cun.			
c3-7					scapula	1	1		lat.cuneiform			
thoracic					humerus	1	1		cuboid			
t1-t12	6				radius	1	1		Metatarsals			1
lumbar					ulna	1	1		Phalanges			
l1-5					Wrist				proximal			
sacral					scaphoid				middle			
s1	1				lunate				distal			
s2-5	1				triquetrum							
coccyx					pisiform							
Sternum					trapezium							
Ribs		2	2		trapezoid							

Figure 3.29. Skeletal Summary 25E

RECOVERY 26E

Mortuary Attributes

Burial Orientation

The burial was oriented with the head to the southwest and the feet to the northeast.

Coffin Shape and Size

The remnants of the coffin and/or distinct outline of differently colored soil indicated that the coffin was hexagonal in shape. It was 72 inches (182.88 cm) long, 16 inches (40.64 cm) at its maximum width and 11 inches (27.94 cm) at its minimum width.

Hardware

No hardware was recovered.

Cultural Attributes

Clothing

No clothing-related artifacts were recovered.

Other Personal Artifacts

No other personal artifacts were recovered.

Other Inclusions or Offerings

No other inclusions or offerings were recovered.

Summary and Estimated Date of Burial

No artifacts were recovered that could accurately estimate the date of burial. The date of burial is estimated to be between the interment dates of the cemetery, 1879 to 1922.

Osteological Attributes

Inventory and Preservation

This individual is represented by a partial skull, dentition and 70% of the post-cranial skeleton (Figure 3.30). The skull consists of the cranium, a few facial bones and the mandible, which are in fair, but fragmented condition. The upper and lower limbs and some vertebrae were recovered in fair but friable condition.

Age

The age of the individual was determined to be a middle to old adult based on the presence of osteoarthritis on most joint surfaces (>40 years).

Sex

The sex of the individual was determined to be female based on the mastoid processes, glabella, mental eminence and the greater sciatic notch of the right os coxa.

Stature

The stature of the individual was determined to be 5 feet and 3.7 inches (161.88 cm) based on the left femur.

Ancestry

Could not be determined due to missing elements.

Skeletal Pathology

Periosteal bone formation was observed on the shaft of the right tibia. The medial surface was smooth with striations indicating it was healed at the time of death. There were also three more affected areas on the lateral surface with the same healing pattern.

Osteoarthritis was observed in the form of an elevated ring of osteophytic lipping around the superior and inferior rim of the bodies of the third, fourth, fifth, sixth and seventh cervical vertebrae. There was also a sharp ridge of osteophytic lipping around the left and right acetabula of the os coxae.

Dental Pathology

Moderate to extensive dental wear was observed on the teeth recovered. The right mandibular second premolar and the left and right mandibular first, second and third molars were lost antemortem. Carious lesions were observed on the mesial interproximal surface of the left maxillary first premolar, the buccal surface of the left maxillary second premolar and the distal interproximal surface of the right mandibular first premolar. Seven linear horizontal enamel hypoplastic grooves were observed on the left mandibular canine from 4.01 mm to 1.38 mm from the CEJ.

Osteological Summary for 26E

This individual was represented by a partial skull, dentition and upper and lower limbs. The individual was determined to be a middle to old adult female with osteoarthritis, periosteal bone formation, moderate to extensive dental wear, antemortem tooth loss, carious lesions and hypoplasias.

26E

Sex: Female

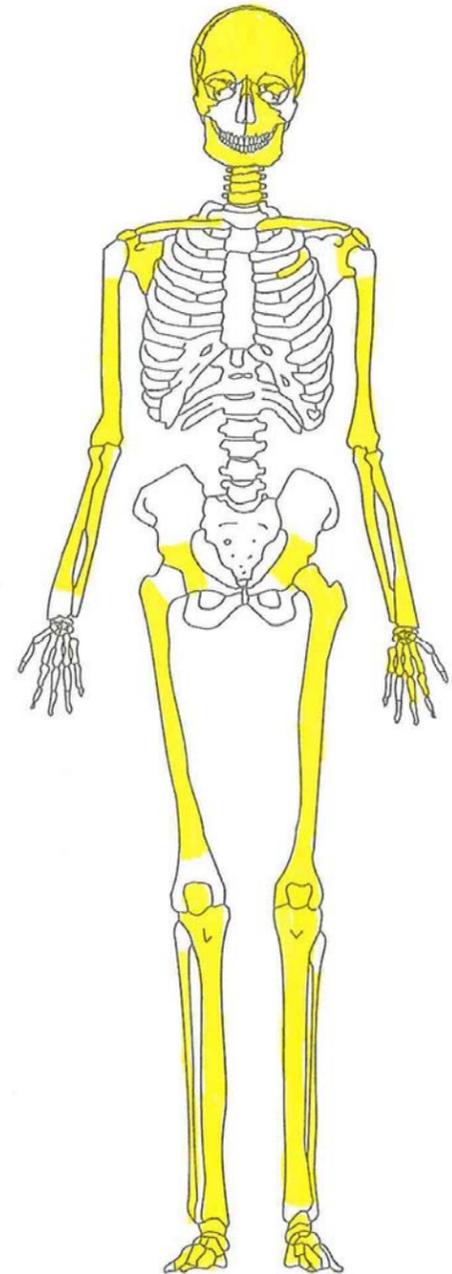
Age: Middle to Old Adult

Ancestry: indeterminate

Height: 5' 3.7" (161.88 cm)

Skeletal Pathology: Osteoarthritis, Periosteal Bone Formation

Dental Pathology: Antemortem Tooth Loss, Carious Lesions, Extensive Wear, Hypoplasias



26E Skeletal Elements Represented												
Element Name	Axial MNE	Left MNE	Right MNE	Indet. MNE	Element Name	Left MNE	Right MNE	Indet. MNE	Element Name	Left MNE	Right MNE	Indet. MNE
Skull					Teeth				capitate	1		
frontal	1				upper I1				hamate			
parietal		1	1		upper I2				Metacarpals	4		
occipital	1				upper C				Phalanges			
temporal		1	1		upper PM1	1			proximal	2		
sphenoid	1				upper PM2	1			middle	1		
zygomatic			1		upper M1	1			distal			
maxilla		1			upper M2				Lower Limb			
palatine					upper M3				os coxae	1	1	
nasal		1	1		lower I1				femur	1	1	
ethmoid					lower I2				tibia	1	1	
lacrimial					lower C	1			fibula	1	1	
vomer					lower PM1		1		patella	1	1	
mandible	1				lower PM2				Ankle			
hyoid					lower M1				talus	1	1	
Vertebrae					lower M2				calcaneus	1	1	
cervical					lower M3				navicular	1		
c1	1				Upper Limb				medial cun.			
c2	1				clavicle	1	1		interm. cun.			
c3-7	5				scapula	1	1		lat.cuneiform			
thoracic					humerus	1	1		cuboid	1		
t1-t12					radius	1	1		Metatarsals	3	4	
lumbar					ulna	1	1		Phalanges			
l1-5					Wrist				proximal			
sacral					scaphoid				middle			
s1					lunate	1			distal			
s2-5					triquetrum	1						
coccyx					pisiform							
Sternum					trapezium							
Ribs		1			trapezoid							

Figure 3.30. Skeletal Summary 26E

RECOVERY 27E

Mortuary Attributes

Burial Orientation

The burial was oriented with the head to the southwest and the feet to the northeast.

Coffin Shape and Size

The remnants of the coffin and/or distinct outline of differently colored soil indicated that the coffin was hexagonal in shape. The coffin length was 74 inches (187.96 cm), was 17 inches (43.18 cm) at its maximum width and was 9 inches (22.86 cm) at its minimum width.

Hardware

Five non-diagnostic nail fragments were discarded.

Cultural Attributes

Clothing

One ferrous shank style button and six ceramic, four-hole buttons were recovered, four dish-style and two tire-style.

Other Personal Artifacts

No other personal artifacts were recovered.

Other Inclusions or Offerings

No other inclusions or offerings were recovered.

Summary and Estimated Date of Burial

Prosser process buttons were manufactured between 1849 and 1910, while the interment dates of the cemetery were between 1879 and 1922. The estimated date of burial is between 1879 and 1910.

Osteological Attributes

Inventory and Preservation

This individual is represented by a partial skull, dentition and some post-cranial long bone fragments (Figure 3.31). The bone is in poor fragmented condition.

Age

The age of the individual was determined to be an adult based on the antemortem loss of the left mandibular third molar (>22 years).

Sex

The sex of the individual was determined to be female based on the morphology of the skull and pelvis.

Stature

Could not be determined due to missing elements.

Ancestry

The ancestry of the individual was determined to be Asian based on external auditory meatus and the morphology of the cranium.

Skeletal Pathology

No pathological conditions were observed on the recovered remains.

Dental Pathology

Antemortem loss of the left mandibular second and third molars were observed. A moderate dental wear pattern was observed on the two teeth recovered. A linear horizontal hypoplastic groove was observed 2.35 mm from the CEJ on the left mandibular second premolar.

Osteological Summary for 27E

This individual was represented by a partial skull and some limb bones and determined to be an adult female of Asian ancestry with antemortem tooth loss, hypoplasia and moderate dental wear.

27E

Sex: Female

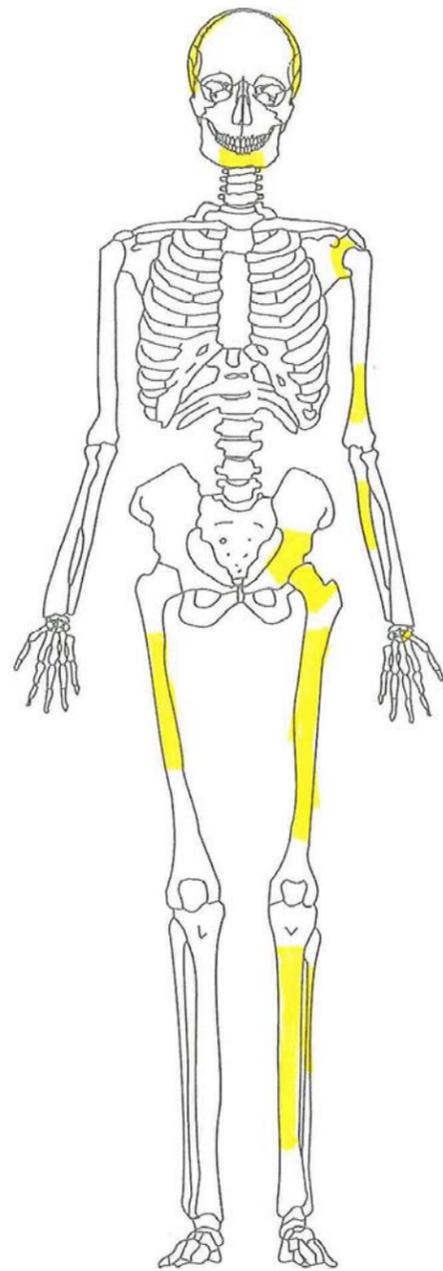
Age: Adult

Ancestry: Asian

Height: indeterminate

Skeletal Pathology: none observed

Dental Pathology: Antemortem Tooth Loss, Hypoplasia



27E Skeletal Elements Represented												
Element Name	Axial MNE	Left MNE	Right MNE	Indet. MNE	Element Name	Left MNE	Right MNE	Indet. MNE	Element Name	Left MNE	Right MNE	Indet. MNE
Skull					Teeth				capitate			
frontal					upper I1				hamate			
parietal		1	1		upper I2				Metacarpals			
occipital	1				upper C				Phalanges			
temporal		1	1		upper PM1				proximal			
sphenoid					upper PM2				middle			
zygomatic					upper M1				distal			
maxilla					upper M2				Lower Limb			
palatine					upper M3				os coxae	1		
nasal					lower I1				femur	1	1	
ethmoid					lower I2				tibia	1		
lacrimial					lower C				fibula			1
vomer					lower PM1				patella			
mandible	1				lower PM2	1			Ankle			
hyoid					lower M1	1			talus			
Vertebrae					lower M2				calcaneus			
cervical					lower M3				navicular			
c1					Upper Limb				medial cun.			
c2					clavicle				interm. cun.			
c3-7					scapula	1			lat.cuneiform			
thoracic					humerus	1			cuboid			
t1-t12	3				radius				Metatarsals			
lumbar					ulna	1			Phalanges			
l1-5					Wrist				proximal			
sacral					scaphoid				middle			
s1					lunate				distal			
s2-5					triquetrum							
coccyx					pisiform							
Sternum					trapezium	1						
Ribs					trapezoid							

Figure 3.31. Skeletal Summary 27E

RECOVERY 28E

Mortuary Attributes

Burial Orientation

The burial was oriented with the head to the southwest and the feet to the northeast.

Coffin Shape and Size

The remnants of the coffin and/or distinct outline of differently colored soil indicated that the coffin was hexagonal in shape. It was 70 inches (177.8 cm) long, 16 inches (40.64 cm) at its maximum width and 8 inches (20.32 cm) at its minimum width.

Hardware

Eight non-diagnostic nail fragments were discarded.

Cultural Attributes

Clothing

Five ceramic, four-hole, dish-style buttons were recovered.

Other Personal Artifacts

No other personal artifacts were recovered.

Other Inclusions or Offerings

No other inclusions or offerings were recovered.

Summary and Estimated Date of Burial

Prosser process buttons were manufactured between 1849 and 1910, while the interment dates of the cemetery were between 1879 and 1922. The estimated date of burial is between 1879 and 1910.

Osteological Attributes

Inventory and Preservation

This individual is represented by cranial and long bone fragments and some dentition (Figure 3.32). The bone is in poor condition.

Age

The age of the individual was determined to be an adult based on the complete eruption of the right maxillary third molars (>21 years).

Sex

The sex of the individual was determined to be female based on the mastoid process and the vertical diameter of the left femoral head (40.69 mm).

Stature

Could not be determined due to missing elements.

Ancestry

Could not be determined due to missing elements.

Skeletal Pathology

No pathological conditions were observed on the recovered remains.

Dental Pathology

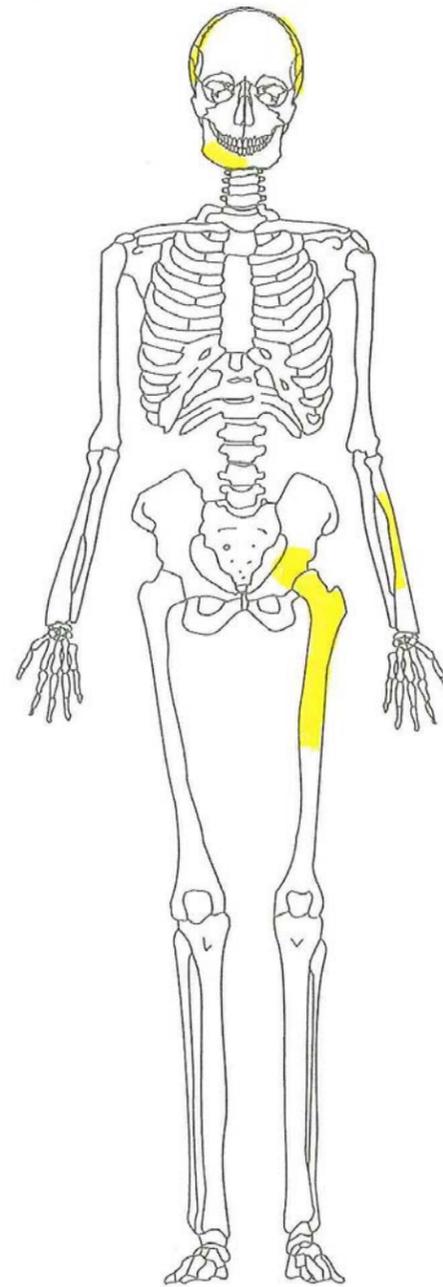
Moderate wear was observed on the anterior teeth and moderate to extensive wear was found on the molars.

Hypoplasia in the form of horizontal linear grooves were observed 2.80 mm and 4.61 mm from CEJ on the right maxillary canine, 3.93 mm from CEJ on the right maxillary first incisor and 3.44 mm from CEJ on the right mandibular second molar. Hypoplasia in the form of a non-linear array of pits was observed on the right maxillary canine, left maxillary first incisor and the right maxillary second molar.

Osteological Summary for 28E

This individual is mainly represented by dentition and some cranial and long bone fragments. The individual was determined to be an adult female that exhibited moderate to extensive dental wear and hypoplasias.

28E
 Sex: Female
 Age: Adult
 Ancestry: indeterminate
 Height: indeterminate
 Skeletal Pathology: none observed
 Dental Pathology: Extensive Wear,
 Hypoplasias



28E Skeletal Elements Represented												
Element Name	Axial MNE	Left MNE	Right MNE	Indet. MNE	Element Name	Left MNE	Right MNE	Indet. MNE	Element Name	Left MNE	Right MNE	Indet. MNE
Skull					Teeth				capitate			
frontal					upper I1	1	1		hamate			
parietal		1	1		upper I2				Metacarpals			
occipital	1				upper C		1		Phalanges			
temporal		1	1		upper PM1				proximal			
sphenoid					upper PM2				middle			
zygomatic					upper M1		1		distal			
maxilla					upper M2	1	1		Lower Limb			
palatine					upper M3		1		os coxae	1		
nasal					lower I1				femur	1		
ethmoid					lower I2	1			tibia			
lacrimial					lower C				fibula			1
vomer					lower PM1	1	1		patella			
mandible	1				lower PM2	1	1		Ankle			
hyoid					lower M1	1	1		talus			
Vertebrae					lower M2		1		calcaneus			
cervical					lower M3				navicular			
c1					Upper Limb				medial cun.			
c2					clavicle				interm. cun.			
c3-7					scapula				lat.cuneiform			
thoracic					humerus				cuboid			
t1-t12					radius			1	Metatarsals			
lumbar					ulna				Phalanges			
l1-5					Wrist				proximal			
sacral					scaphoid				middle			
s1					lunate				distal			
s2-5					triquetrum							
coccyx					pisiform							
Sternum					trapezium							
Ribs					trapezoid							

Figure 3.32. Skeletal Summary 28E

RECOVERY 29E

Mortuary Attributes

Burial Orientation

The burial was oriented with the head to the southwest and the feet to the northeast.

Coffin Shape and Size

The remnants of the coffin and/or distinct outline of differently colored soil indicated that the coffin was hexagonal in shape. It was 74 inches (187.96 cm) long, 16 inches (40.64 cm) at its maximum width and 9 inches (22.86 cm) at its minimum width.

Hardware

No hardware was recovered.

Cultural Attributes

Clothing

One ceramic, four-hole, dish-style button, two ferrous buttons, one unidentified two-hole button and one ferrous buckle were recovered.

Other Personal Artifacts

No other personal artifacts were recovered.

Other Inclusions or Offerings

No other inclusions or offerings were recovered.

Summary and Estimated Date of Burial

Prosser process buttons were manufactured between 1849 and 1910, while the interment dates of the cemetery were between 1879 and 1922. The estimated date of burial is between 1879 and 1910.

Osteological Attributes

Inventory and Preservation

This individual is mainly represented by a frontal bone, mandible and upper and lower limb bones (Figure 3.33). The limb bones consist of the left humerus, the femora and the tibiae. The bone is in fair condition, but fragmented.

Age

This individual was determined to be an adult based on the epiphyseal fusion of the left femoral head (> 21 years).

Sex

The sex of the individual was determined to be female based on the supraorbital margins, mental eminence and overall cranial and mandibular morphology. These observations were taken in the field.

Stature

The height of the individual was determined to be 5 feet and 7.2 inches (170.68 cm) based on the length of the left femur.

Ancestry

Could not be determined due to missing elements.

Skeletal Pathology

No pathological conditions were observed on the recovered remains.

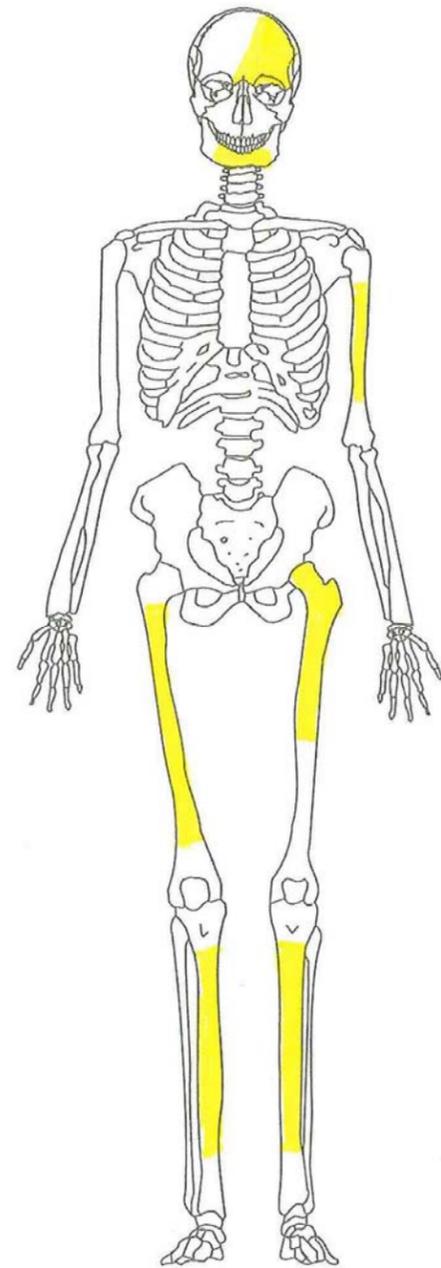
Dental Pathology

Could not be determined due to missing elements.

Osteological Summary for 29E

This individual is mainly represented by a fragmented cranium and long bones and was determined to be an adult female. The height was 5 feet and 7.2 inches (170.68 cm).

29E
 Sex: Female
 Age: Adult
 Ancestry: indeterminate
 Height: 5' 7.2" (170.68 cm)
 Skeletal Pathology: none observed
 Dental Pathology: indeterminate



29E Skeletal Elements Represented												
Element Name	Axial MNE	Left MNE	Right MNE	Indet. MNE	Element Name	Left MNE	Right MNE	Indet. MNE	Element Name	Left MNE	Right MNE	Indet. MNE
Skull					Teeth				capitate			
frontal	1				upper I1				hamate			
parietal					upper I2				Metacarpals			
occipital					upper C				Phalanges			
temporal					upper PM1				proximal			
sphenoid					upper PM2				middle			
zygomatic					upper M1				distal			
maxilla					upper M2				Lower Limb			
palatine					upper M3				os coxae			
nasal					lower I1				femur	1	1	
ethmoid					lower I2				tibia	1	1	
lacrimial					lower C				fibula			
vomer					lower PM1				patella			
mandible	1				lower PM2				Ankle			
hyoid					lower M1				talus			
Vertebrae					lower M2				calcaneus			
cervical					lower M3				navicular			
c1					Upper Limb				medial cun.			
c2					clavicle				interm. cun.			
c3-7					scapula				lat.cuneiform			
thoracic					humerus	1			cuboid			
t1-t12					radius				Metatarsals			
lumbar					ulna				Phalanges			
l1-5					Wrist				proximal			
sacral					scaphoid				middle			
s1					lunate				distal			
s2-5					triquetrum							
coccyx					pisiform							
Sternum					trapezium							
Ribs					trapezoid							

Figure 3.33. Skeletal Summary 29E

RECOVERY 30E

Mortuary Attributes

Burial Orientation

The burial was oriented with the head to the southwest and the feet to the northeast.

Coffin Shape and Size

The remnants of the coffin and/or distinct outline of differently colored soil indicated that the coffin was hexagonal in shape. It was 75 inches (190.5 cm) long, 21 inches (53.34 cm) at its maximum width and 7 inches (17.78 cm) at its minimum width.

Hardware

One coffin nail was discarded.

Cultural Attributes

Clothing

One ceramic, four-hole, dish-style button was recovered. Two fragments of one ferrous suspender clasp were recovered from the upper chest area and unidentified fragments of leather or fabric were recovered from under the left tibia and fibula. One non-ferrous fragment of a fastener was recovered from the cranial area.

Other Personal Artifacts

No other personal artifacts were recovered.

Other Inclusions or Offerings

No other inclusions or offerings were recovered.

Summary and Estimated Date of Burial

No artifacts were recovered that could accurately estimate the date of burial. The date of burial is estimated to be between the interment dates of the cemetery, 1879 to 1922.

Osteological Attributes 30Ea

Inventory and Preservation

This individual is represented by a partial skull, dentition and 45% of the post-cranial skeleton (Figure 3.34). The skull consists of a fragmented cranium and partial mandible. The post-cranial skeleton consists of cervical and thoracic vertebrae and upper and lower limb bones and are in fair but fragmented condition.

Age

The age of the individual was determined to be an adult based on wear and the complete eruption of the left maxillary third molar (>23 years).

Sex

The sex of the individual was determined to be male based on cranial morphology.

Stature

Could not be determined due to missing elements.

Ancestry

Could not be determined due to missing elements.

Skeletal Pathology

The right distal fibula yields a complete fracture resulting in periosteal bone formation and the fusion of the distal fibula to the distal posterior shaft of the right tibia. The bone appears smooth indicating it was healed at the time of death.

Dental Pathology

Minor to moderate wear was observed on the teeth recovered. The right maxillary second premolar, the left maxillary first molar, the left mandibular second molar and the left mandibular third molar were lost antemortem. Hypoplasia in the form of linear horizontal grooves was present 3.76 mm from CEJ on the right maxillary canine, 2.75 mm from CEJ on the right maxillary second incisor and 3.49 mm from CEJ on the left maxillary second incisor.

Osteological Summary for 30Ea

The individual was represented by a partial skull with teeth and upper and lower limb bones. The individual was determined to be an adult male with fusion of the right distal fibula and tibia resulting from a fracture. Hypoplasias, antemortem tooth loss and minor to moderate dental wear were also observed.

30Ea

Sex: Male

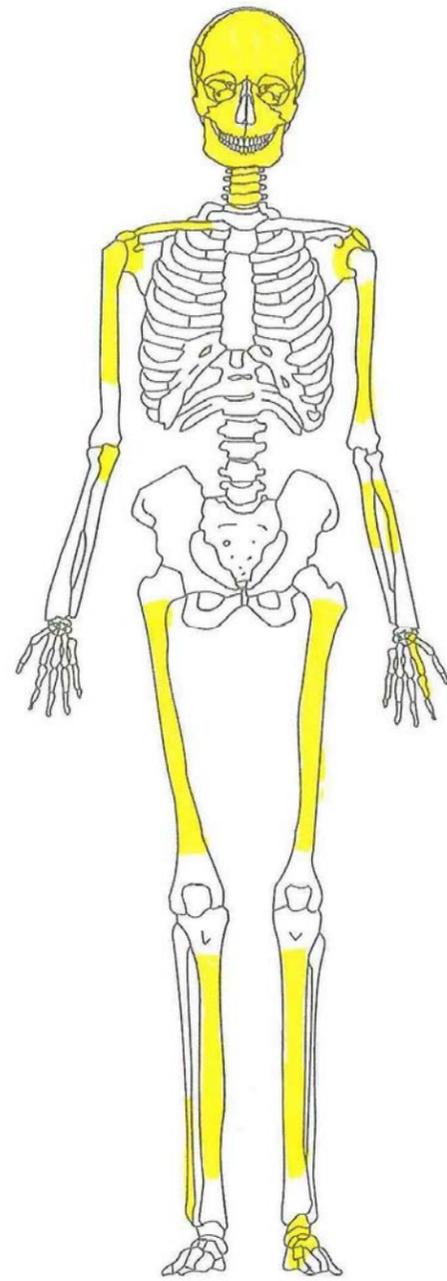
Age: Adult

Ancestry: indeterminate

Height: indeterminate

Skeletal Pathology: Fracture

Dental Pathology: Hypoplasia



30Ea Skeletal Elements Represented												
Element Name	Axial MNE	Left MNE	Right MNE	Indet. MNE	Element Name	Left MNE	Right MNE	Indet. MNE	Element Name	Left MNE	Right MNE	Indet. MNE
Skull					Teeth				capitate			
frontal	1				upper I1	1	1		hamate			
parietal		1	1		upper I2	1	1		Metacarpals			1
occipital	1				upper C	1	1		Phalanges			
temporal		1	1		upper PM1	1	1		proximal			1
sphenoid	1				upper PM2	1			middle			
zygomatic		1	1		upper M1				distal			
maxilla		1	1		upper M2	1			Lower Limb			
palatine					upper M3	1			os coxae			
nasal					lower I1				femur	1	1	
ethmoid					lower I2				tibia	1	1	
lacrimial					lower C	1			fibula		1	
vomer					lower PM1		1		patella			
mandible	1				lower PM2		1		Ankle			
hyoid					lower M1	1	1		talus	1		
Vertebrae					lower M2				calcaneus	1		
cervical					lower M3				navicular	1		
c1	1				Upper Limb				medial cun.			
c2	1				clavicle		1		interm. cun.			
c3-7	5				scapula	1	1		lat.cuneiform			
thoracic					humerus	1	1		cuboid			
t1-t12	2				radius	1			Metatarsals	1		
lumbar					ulna	1	1		Phalanges			
l1-5					Wrist				proximal			
sacral					scaphoid				middle			
s1					lunate	1			distal			
s2-5					triquetrum							
coccyx					pisiform							
Sternum					trapezium							
Ribs					trapezoid							

Figure 3.34. Skeletal Summary 30Ea

Osteological Attributes 30Eb

Inventory and Preservation

This individual consists of cranial fragments and dentition representing less than 10% of the skeleton (Figure 3.35). The bone is in fair, but fragmented condition.

Age

The age of the individual was determined to be an adult based on the wear and the complete eruption of the left maxillary third molar (>23 years).

Sex

The sex of the individual was determined to be a male based on cranial morphology.

Stature

Could not be determined due to missing elements.

Ancestry

Could not be determined due to missing elements.

Skeletal Pathology

No pathological conditions were observed on the recovered remains.

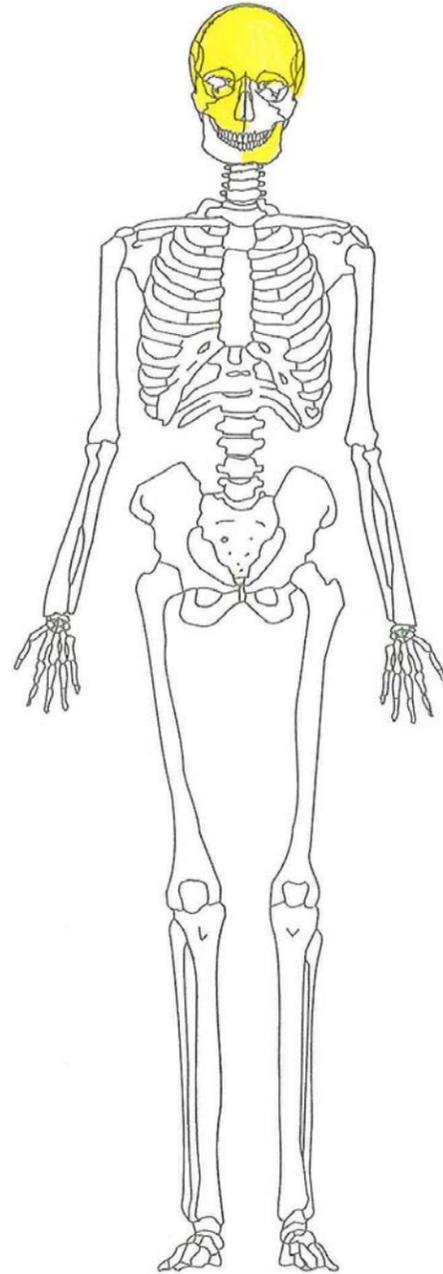
Dental Pathology

Minor wear was observed on the anterior teeth and minor moderate wear was found on the molars. Hypoplasia in the form of linear horizontal grooves was observed 3.97 mm from CEJ on the left maxillary canine and 1.26 mm and 2.24 mm from CEJ on the left maxillary first premolar. One carious lesion was observed on the mesial interproximal surfaces of the maxillary third molar.

Osteological Summary for 30Eb

This individual is represented by dentition and cranial fragments. The individual was determined to be an adult male with hypoplasias, a carious lesion and minor to moderate dental wear.

30Eb
 Sex: Male
 Age: Adult
 Ancestry: indeterminate
 Height: indeterminate
 Skeletal Pathology: none observed
 Dental Pathology: Hypoplasias, Carious Lesion



30Eb Skeletal Elements Represented												
Element Name	Axial MNE	Left MNE	Right MNE	Indet. MNE	Element Name	Left MNE	Right MNE	Indet. MNE	Element Name	Left MNE	Right MNE	Indet. MNE
Skull					Teeth				capitate			
frontal	1				upper I1				hamate			
parietal		1	1		upper I2				Metacarpals			
occipital	1				upper C	1			Phalanges			
temporal		1	1		upper PM1	1			proximal			
sphenoid					upper PM2				middle			
zygomatic			1		upper M1	1			distal			
maxilla			1		upper M2	1	1		Lower Limb			
palatine					upper M3	1			os coxae			
nasal					lower I1				femur			
ethmoid					lower I2				tibia			
lacrimal					lower C				fibula			
vomer					lower PM1				patella			
mandible	1				lower PM2				Ankle			
hyoid					lower M1				talus			
Vertebrae					lower M2				calcaneus			
cervical					lower M3				navicular			
c1					Upper Limb				medial cun.			
c2					clavicle				interm. cun.			
c3-7					scapula				lat.cuneiform			
thoracic					humerus				cuboid			
t1-t12					radius				Metatarsals			
lumbar					ulna				Phalanges			
l1-5					Wrist				proximal			
sacral					scaphoid				middle			
s1					lunate				distal			
s2-5					triquetrum							
coccyx					pisiform							
Sternum					trapezium							
Ribs					trapezoid							

Figure 3.35. Skeletal Summary 30Eb

RECOVERY 31E

Mortuary Attributes

Burial Orientation

The burial appeared to be oriented with the head to the southwest and the feet to the northeast.

Coffin Shape and Size

The burial was heavily impacted, hindering an accurate determination of shape and size.

Hardware

One thumbscrew and one escutcheon were recovered.

Cultural Attributes

Clothing

No clothing-related artifacts were recovered.

Other Personal Artifacts

No other personal artifacts were recovered.

Other Inclusions or Offerings

No other inclusions or offerings were recovered.

Summary and Estimated Date of Burial

No artifacts were recovered that could accurately estimate the date of burial. The date of burial is estimated to be between the interment dates of the cemetery, 1879 to 1922.

Osteological Attributes

Inventory and Preservation

This individual is represented by a partial fragmented skull, dentition and 45% of the post-cranial skeleton (Figure 3.36). The post-cranial skeleton consists of thoracic vertebrae, the left clavicle and arm, the right os coxa, femora, right tibia and patella. The bone is in fair condition, but fragmented.

Age

The age of the individual was determined to be an adolescent based on the complete eruption of the right mandibular second premolar (>12 years) and the unfused epiphyses of the distal femora (<21 years).

Sex

The sex of the individual was determined to be female based on cranial morphology.

Stature

Could not be determined due to missing elements.

Ancestry

Could not be determined due to missing elements.

Skeletal Pathology

Abnormal endosteal bone formation resulting in the narrowing of the medullary cavities of the right tibia and femora was observed; probably caused by infection. The tibia was significantly more affected than the femora.

Abnormal periosteal bone formation observed on the right tibia. Two areas on the lateral shaft of the tibia were affected. The superior larger growth had a maximum diameter of 42.06 mm and the inferior has less pronounced growth with a maximum diameter of 27.16 mm. Transverse vascular etching was also observed on both growth sites.

Dental Pathology

Could not be determined due to missing elements.

Osteological Summary for 31E

This individual is represented by cranial fragments and upper and lower limb bones. The individual was determined to be an adolescent female with periosteal and endosteal bone formation.

31E

Sex: Female

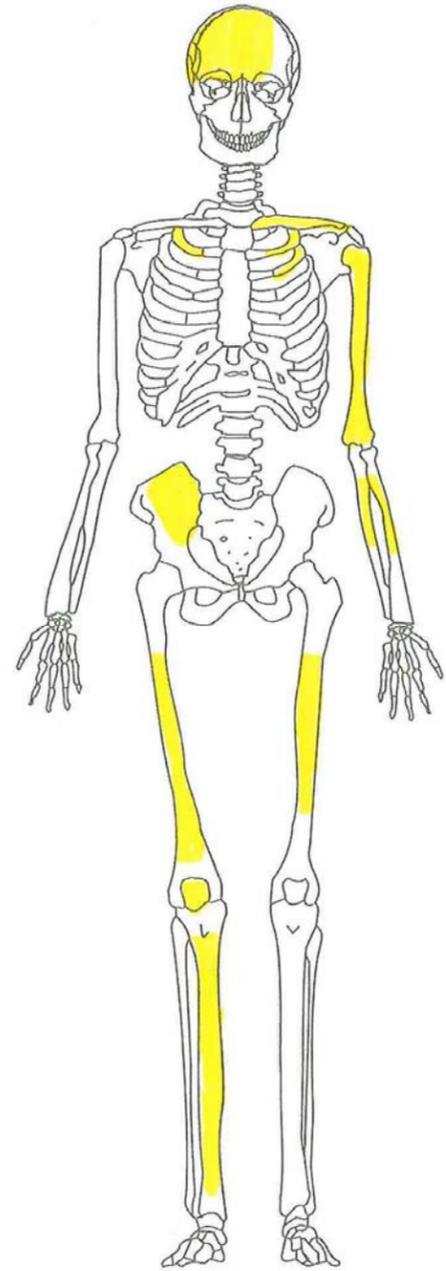
Age: Adolescent

Ancestry: indeterminate

Height: indeterminate

Skeletal Pathology: Periosteal Bone Formation, Endosteal Bone Formation

Dental Pathology: none observed



31E Skeletal Elements Represented												
Element	Axial	Left	Right	Indet.	Element	Left	Right	Indet.	Element	Left	Right	Indet.
Name	MNE	MNE	MNE	MNE	Name	MNE	MNE	MNE	Name	MNE	MNE	MNE
Skull					Teeth				capitate			
frontal	1				upper I1				hamate			
parietal				1	upper I2				Metacarpals			
occipital	1				upper C				Phalanges			
temporal			1		upper PM1				proximal			
sphenoid					upper PM2				middle			
zygomatic					upper M1				distal			
maxilla					upper M2				Lower Limb			
palatine					upper M3				os coxae		1	
nasal					lower I1				femur	1	1	
ethmoid					lower I2				tibia		1	
lacrimial					lower C		1		fibula			
vomer					lower PM1		1		patella		1	
mandible					lower PM2		1		Ankle			
hyoid					lower M1				talus			
Vertebrae					lower M2				calcaneus			
cervical					lower M3				navicular			
c1					Upper Limb				medial cun.			
c2					clavicle	1			interm. cun.			
c3-7					scapula				lat.cuneiform			
thoracic					humerus	1			cuboid			
t1-t12	4				radius	1			Metatarsals			
lumbar					ulna	1			Phalanges			
l1-5					Wrist				proximal			
sacral					scaphoid				middle			
s1					lunate				distal			
s2-5					triquetrum							
coccyx					pisiform							
Sternum					trapezium							
Ribs		2	1		trapezoid							

Figure 3.36. Skeletal Summary 31E

RECOVERY 32E

Mortuary Attributes

Burial Orientation

The burial was oriented with the head to the southwest and the feet to the northeast.

Coffin Shape and Size

The remnants of the coffin and/or distinct outline of differently colored soil indicated that the coffin was hexagonal in shape. It was 72 inches (182.88 cm) long, 18 inches (45.72 cm) at its maximum width and 6 inches (15.24 cm) at its minimum width.

Hardware

Twelve non-diagnostic nail fragments were discarded.

Cultural Attributes

Clothing

Three ceramic, four-hole, dish-style buttons and one ferrous button were recovered.

Other Personal Artifacts

No other personal artifacts were recovered.

Other Inclusions or Offerings

No other inclusions or offerings were recovered.

Summary and Estimated Date of Burial

Prosser process buttons were manufactured between 1849 and 1910, while the interment dates of the cemetery were between 1879 and 1922. The estimated date of burial is between 1879 and 1910.

Osteological Attributes

Inventory and Preservation

This individual is represented by a partial skull, dentition and 75% of the post-cranial skeleton (Figure 3.37). The cranium and mandible are fragmented. The post-cranial skeleton consists mainly of upper and lower limb bones. The bone is fragmented, but fair condition.

Age

The age of the individual was determined to be a middle to older adult based primarily on the osteophytic lipping and on the significant wear on the right mandibular third molar (>40 years).

Sex

The sex of the individual was determined to be male based on mastoid processes and the vertical diameter of the left femoral head (45.38 mm).

Stature

Could not be determined due to missing elements.

Ancestry

Could not be determined due to missing elements.

Skeletal Pathology

The individual exhibited osteoarthritis in the form of lipping on the distal end of the left humerus on the lateral and medial ridges of the trochlea.

Dental Pathology

Moderate wear was observed on the teeth recovered. Hypoplasias in the form of non-linear array of pits were observed on the left mandibular canine and on the right mandibular canine. Linear horizontal hypoplastic grooves were found 3.79 mm from the CEJ on the right maxillary canine, 3.46 mm from the CEJ on the left mandibular first premolar and a single pit was found 3.47 mm from the CEJ on the right mandibular first premolar. Caries lesions were observed on the distal interproximal surface of the right maxillary first premolar, the mesial interproximal surface of the right maxillary canine and the mesial interproximal surface of the right mandibular third molar. Carious lesions were observed on the buccal roots of the right mandibular first molar and the right mandibular second molar.

Osteological Summary for 32E

This individual is represented by a partial skull with dentition and the upper and lower limb bones. The individual was determined to be a middle to old adult male with osteoarthritis, moderate dental wear, hypoplasias and carious lesions.

32E

Sex: Male

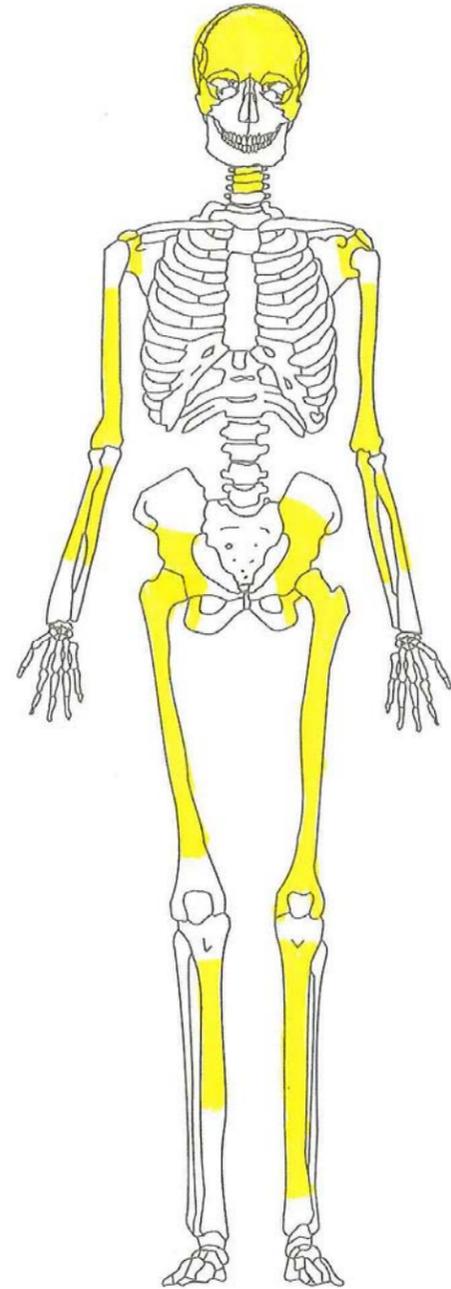
Age: Middle to Old Adult

Ancestry: indeterminate

Height: indeterminate

Skeletal Pathology: Osteoarthritis

Dental Pathology: Hypoplasia, Caries Lesions



32E Skeletal Elements Represented												
Element Name	Axial MNE	Left MNE	Right MNE	Indet. MNE	Element Name	Left MNE	Right MNE	Indet. MNE	Element Name	Left MNE	Right MNE	Indet. MNE
Skull					Teeth				capitate			
frontal	1				upper I1				hamate			
parietal		1	1		upper I2				Metacarpals			
occipital	1				upper C		1		Phalanges			
temporal		1	1		upper PM1		1		proximal			
sphenoid					upper PM2				middle			
zygomatic		1	1		upper M1				distal			
maxilla					upper M2				Lower Limb			
palatine					upper M3				os coxae	1	1	
nasal					lower I1				femur	1	1	
ethmoid					lower I2				tibia	1	1	
lacrimal					lower C	1	1		fibula			
vomer					lower PM1	1	1		patella			
mandible					lower PM2				Ankle			
hyoid					lower M1		1		talus			
Vertebrae					lower M2		1		calcaneus			
cervical					lower M3		1		navicular			
c1	1				Upper Limb				medial cun.			
c2					clavicle				interm. cun.			
c3-7	2				scapula	1	1		lat.cuneiform			
thoracic					humerus	1	1		cuboid			
t1-t12					radius	1	1		Metatarsals			
lumbar					ulna	1	1		Phalanges			
l1-5					Wrist				proximal			
sacral					scaphoid				middle			
s1					lunate				distal			
s2-5					triquetrum							
coccyx					pisiform							
Sternum					trapezium							
Ribs					trapezoid							

Figure 3.37. Skeletal Summary 32E

RECOVERY 33E

Mortuary Attributes

Burial Orientation

The burial was oriented with the head to the southwest and the feet to the northeast.

Coffin Shape and Size

The remnants of the coffin and/or distinct outline of differently colored soil indicated that the coffin was hexagonal in shape. It was 71 inches (180.34 cm) long, 16 inches (40.64 cm) at its maximum width and 6 inches (15.24 cm) at its minimum width.

Hardware

No hardware was recovered.

Cultural Attributes

Clothing

One black, ceramic, four-hole, tire-style button and five unidentified, two-hole, china mound-style buttons were recovered.

Other Personal Artifacts

No other personal artifacts were recovered.

Other Inclusions or Offerings

No other inclusions or offerings were recovered.

Summary and Estimated Date of Burial

Prosser process buttons were manufactured between 1849 and 1910, while the interment dates of the cemetery were between 1879 and 1922. The estimated date of burial is between 1879 and 1910.

Osteological Attributes

Inventory and Preservation

This individual is represented by a partial skull, dentition and 80% of the post-cranial skeleton (Figure 3.38). The bone is in fair condition, but fragmented.

Age

The age of the individual was determined to be an adult based on the eruption and wear on the left maxillary third molar (>23 years).

Sex

The sex of the individual was determined to be male based on cranial morphology, the greater sciatic notch of the os coxa and vertical diameter of the left femoral head (54.89 mm).

Stature

Could not be determined due to missing elements.

Ancestry

Could not be determined due to missing elements.

Skeletal Pathology

The right fibula exhibited localized periosteal bone formation on the medial surface of the distal end of the shaft. The bone appears smooth with striations and affected around less than 50% of the shaft. The right tibia exhibited localized periosteal bone formation on the distal posterior and lateral surfaces of the shaft. Less than 25% of the shaft was affected and the bone appears smooth with striations indicating it was healed at the time of death. The localized bone formation of both distal ends of the right fibula and tibia suggests trauma to the area, which resulted in bone formation.

The left calcaneus exhibited a complete fracture along the sagittal plane, transecting the posterior talar articular surface. The bone is offset resulting in large grooves on the superior and inferior surfaces and abnormal bone formation on the lateral border appears to stabilize talar-calcaneus joint. The bone appears smooth and solid indicating it was healed at time of death.

Dental Pathology

Moderate to extensive wear was observed on the teeth recovered. The left maxillary second molar was lost antemortem. A carious lesion was observed on the distal interproximal surface of the right maxillary right second molar.

Osteological Summary for 33E

This individual is represented by a nearly complete skeleton and was determined to be a adult male with periosteal bone formation on the right tibia and fibula, a complete fracture of the left calcaneus, antemortem tooth loss, a carious lesion and moderate to extensive dental wear.

33E

Sex: Male

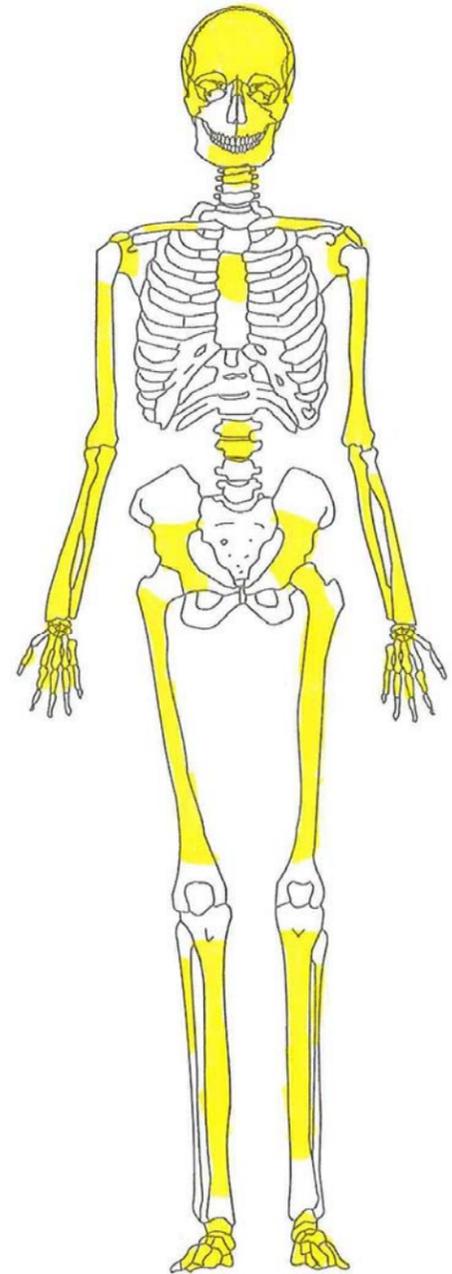
Age: Adult

Ancestry: Indeterminate

Height: Indeterminate

Skeletal Pathology: Periosteal Bone Formation, Fracture

Dental Pathology: Antemortem Tooth Loss, Carious Lesion, Extensive Wear



33E Skeletal Elements Represented												
Element	Axial	Left	Right	Indet.	Element	Left	Right	Indet.	Element	Left	Right	Indet.
Name	MNE	MNE	MNE	MNE	Name	MNE	MNE	MNE	Name	MNE	MNE	MNE
Skull					Teeth				capitate	1	1	
frontal	1				upper I1				hamate			
parietal		1	1		upper I2				Metacarpals	3	4	
occipital	1				upper C	1	1		Phalanges			
temporal		1	1		upper PM1	1	1		proximal			9
sphenoid	1				upper PM2	1	1		middle			
zygomatic		1	1		upper M1	1			distal			
maxilla		1			upper M2		1		Lower Limb			
palatine		1			upper M3	1	1		os coxae	1	1	
nasal		1	1		lower I1	1	1		femur	1	1	
ethmoid					lower I2	1	1		tibia	1	1	
lacrimial		1	1		lower C	1			fibula	1	1	
vomer					lower PM1	1			patella			
mandible	1				lower PM2				Ankle			
hyoid					lower M1				talus	1	1	
Vertebrae					lower M2				calcaneus	1	1	
cervical					lower M3	1			navicular	1	1	
c1	1				Upper Limb				medial cun.	1	1	
c2	1				clavicle	1	1		interm. cun.	1	1	
c3-7					scapula	1	1		lat.cuneiform			
thoracic					humerus	1	1		cuboid	1		
t1-t12	1				radius	1	1		Metatarsals	4	4	
lumbar					ulna	1	1		Phalanges			
l1-5	2				Wrist				proximal			
sacral					scaphoid	1	1		middle			
s1					lunate	1	1		distal			
s2-5					triquetrum							
coccyx					pisiform							
Sternum	1				trapezium	1	1					
Ribs					trapezoid							

Figure 3.38. Skeletal Summary 33E

RECOVERY 34E

Mortuary Attributes

Burial Orientation

The burial was oriented with the head to the southwest and the feet to the northeast.

Coffin Shape and Size

The remnants of the coffin and/or distinct outline of differently colored soil indicated that the coffin was hexagonal in shape. It was 77 inches (195.58 cm) long, 17 inches (43.18 cm) at its maximum width and 6 inches (15.24 cm) at its minimum width.

Hardware

Ten non-diagnostic nail fragments were discarded.

Cultural Attributes

Clothing

Seven ceramic, four-hole, pie crust-style buttons and two ceramic, two-hole china mound-style buttons with light blue painted rims were recovered.

Other Personal Artifacts

No other personal artifacts were recovered.

Other Inclusions or Offerings

No other inclusions or offerings were recovered.

Summary and Estimated Date of Burial

Prosser process buttons were manufactured between 1849 and 1910, while the interment dates of the cemetery were between 1879 and 1922. The estimated date of burial is between 1879 and 1910.

Osteological Attributes

Inventory and Preservation

This individual is represented by relatively complete skull, dentition and 50% of the post-cranial skeleton (Figure 3.39). The skull is nearly complete and in good condition, but fragmented. The long bone shafts from the upper and lower limbs were recovered in fair, but fragmented condition.

Age

The age of the individual was determined to be young to middle adult based on the closure of the external cranial vault sutures (23-45 years).

Sex

The sex of the individual was determined to be female based on the nuchal crest, mastoid processes, supraorbital margins, glabella, mental eminence and overall cranial and mandibular morphology.

Stature

Could not be determined due to missing elements.

Ancestry

The ancestry of the individual was determined to be a mix between Asian based on sagittal keeling and nasal morphology and Euro-American based on the presence of the metopic suture.

Skeletal Pathology

General periosteal bone formation was observed on the medial midshaft and along the linear aspera of the right femoral shaft. The woven appearance of the bone indicates the infection was active at the time of death.

An area of abnormal boss loss was observed on the inferior aspect of the sternal end of the right clavicle at the insertion of the costoclavicular ligament. The area affected had dimensions of 11.55 mm by 4.98 mm and was probably caused a pulled muscle.

Dental Pathology

There was antemortem tooth loss of the right mandibular first premolar, left and right mandibular second premolar, left and right mandibular first molar, left mandibular second molar and right mandibular third molar. Moderate dental wear was observed on the teeth recovered. Linear horizontal hypoplastic grooves were observed 2.93 mm and 4.90 mm from the CEJ on the right maxillary first incisor; 1.30 mm and 2.61 mm from the CEJ on the left maxillary second incisor; 1.69 mm and 2.93 mm from the CEJ on the right maxillary second incisor; 1.43 mm and 1.92 mm from the CEJ on the right maxillary canine; 1.23 mm from the CEJ on the left maxillary first premolar; 2.00 mm from the CEJ on the right maxillary first premolar; 1.60 mm from the CEJ on the right maxillary second premolar; 2.63 mm from the CEJ on the left maxillary first molar; 1.57 mm from the CEJ on the right maxillary first molar; 3.81 mm from the CEJ on the left maxillary second molar; 4.10 mm from the CEJ on the left mandibular first incisor; 3.82 mm from the CEJ on the right mandibular first incisor; 3.05 mm and 4.77 mm from the CEJ on the left mandibular second incisor; 2.47 mm and 3.88 mm from the CEJ on the left mandibular canine; 1.09 mm, 2.35 mm and 4.53 mm from the CEJ on the left mandibular first premolar, 1.45 mm from the CEJ on the right mandibular second molar; and 1.65 mm from the CEJ on the left mandibular third molar. A non-linear array of hypoplastic pits was found on the right maxillary first molar.

Osteological Summary for 34E

This individual is represented by a relatively complete skull and some bones from the upper and lower limbs. The recovery was determined to be a young to middle adult female of mixed ancestry with general periosteal bone formation, abnormal bone loss, antemortem tooth loss, moderate dental wear and hypoplasias.

34E

Sex: Female

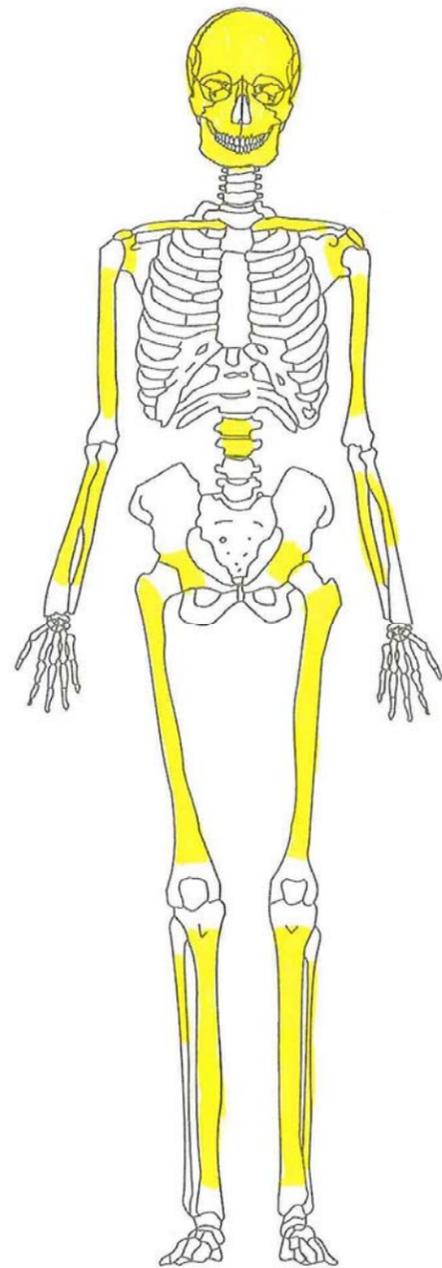
Age: Young to Middle Adult

Ancestry: Mixed

Height: indeterminate

Skeletal Pathology: Periosteal Bone Formation, Abnormal Bone Resorption

Dental Pathology: Antemortem Tooth Loss, Hypoplasias



34E Skeletal Elements Represented												
Element	Axial	Left	Right	Indet.	Element	Left	Right	Indet.	Element	Left	Right	Indet.
Name	MNE	MNE	MNE	MNE	Name	MNE	MNE	MNE	Name	MNE	MNE	MNE
Skull					Teeth				capitate			
frontal	1				upper I1		1		hamate			
parietal		1	1		upper I2	1	1		Metacarpals			
occipital	1				upper C		1		Phalanges			
temporal		1	1		upper PM1	1	1		proximal			
sphenoid	1				upper PM2		1		middle			
zygomatic		1	1		upper M1	1	1		distal			
maxilla		1	1		upper M2	1	1		Lower Limb			
palatine		1	1		upper M3				os coxae	1	1	
nasal		1	1		lower I1	1	1		femur	1	1	
ethmoid	1				lower I2	1			tibia	1	1	
lacrimial		1	1		lower C	1			fibula	1	1	
vomer					lower PM1	1			patella			
mandible	1				lower PM2				Ankle			
hyoid					lower M1				talus			
Vertebrae					lower M2		1		calcaneus			
cervical					lower M3	1			navicular			
c1					Upper Limb				medial cun.			
c2					clavicle	1	1		interm. cun.			
c3-7					scapula	1	1		lat.cuneiform			
thoracic					humerus	1	1		cuboid			
t1-t12					radius	1	1		Metatarsals			
lumbar					ulna	1	1		Phalanges			
l1-5	2				Wrist				proximal			
sacral					scaphoid				middle			
s1					lunate				distal			
s2-5					triquetrum							
coccyx					pisiform							
Sternum					trapezium							
Ribs					trapezoid							

Figure 3.39. Skeletal Summary 34E

RECOVERY 35E

Mortuary Attributes

Burial Orientation

The burial was oriented with the head to the southwest and the feet to the northeast.

Coffin Shape and Size

The remnants of the coffin and/or distinct outline of differently colored soil indicated that the coffin was hexagonal in shape. It was 72 inches (182.88 cm) long, 18 inches (45.72 cm) at its maximum width and 9 inches (22.86 cm) at its minimum width.

Hardware

No hardware was recovered.

Cultural Attributes

Clothing

One ceramic, four-hole, dish-style button and one ferrous buckle were recovered.

Other Personal Artifacts

No other personal artifacts were recovered.

Other Inclusions or Offerings

No other inclusions or offerings were recovered.

Summary and Estimated Date of Burial

Prosser process buttons were manufactured between 1849 and 1910, while the interment dates of the cemetery were between 1879 and 1922. The estimated date of burial is between 1879 and 1910.

Osteological Attributes

Inventory and Preservation

This individual is represented by a partial fragmented skull, dentition and 20% of the post-cranial skeleton (Figure 3.40). The post-cranial skeleton consists of the right scapula and upper and lower limb bones.

Age

The age of the individual was determined to be an adult based on the wear and complete eruption of the right mandibular third molar (>23 years).

Sex

The sex of the individual was determined to be female based on cranial and mandibular morphology.

Stature

Could not be determined due to missing elements.

Ancestry

Could not be determined due to missing elements.

Skeletal Pathology

No pathological conditions were observed on the recovered remains.

Dental Pathology

Moderate wear was observed on the teeth recovered. The right maxillary canine exhibited a groove that could possibly be from habitual activity.

Osteological Summary for 35E

This individual is mainly represented by cranial and long bone fragments and some teeth. The individual was determined to be an adult female with possible dental wear associated with habitual activity and moderate dental wear.

35E

Sex: Female

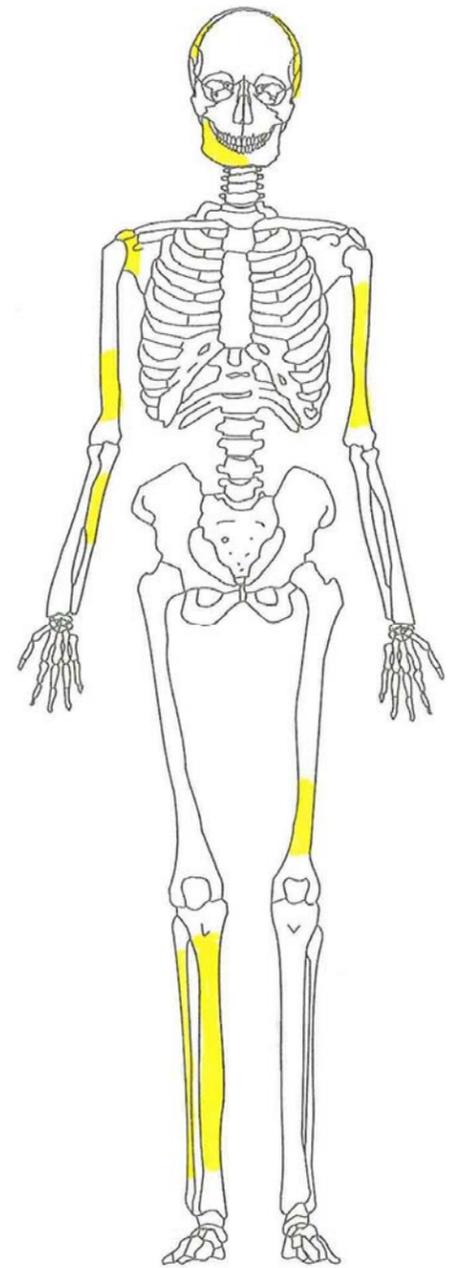
Age: Adult

Ancestry: indeterminate

Height: indeterminate

Skeletal Pathology: none observed

Dental Pathology: Dental Wear Associated with Habitual Activity



35E Skeletal Elements Represented												
Element Name	Axial MNE	Left MNE	Right MNE	Indet. MNE	Element Name	Left MNE	Right MNE	Indet. MNE	Element Name	Left MNE	Right MNE	Indet. MNE
Skull					Teeth				capitate			
frontal					upper I1				hamate			
parietal		1	1		upper I2				Metacarpals			
occipital	1				upper C		1		Phalanges			
temporal				1	upper PM1				proximal			
sphenoid					upper PM2				middle			
zygomatic					upper M1		1		distal			
maxilla					upper M2	1			Lower Limb			
palatine					upper M3				os coxae			
nasal					lower I1				femur	1		
ethmoid					lower I2				tibia		1	
lacrimial					lower C				fibula		1	
vomer					lower PM1				patella			
mandible	1				lower PM2		1		Ankle			
hyoid					lower M1		1		talus			
Vertebrae					lower M2		1		calcaneus			
cervical					lower M3		1		navicular			
c1					Upper Limb				medial cun.			
c2					clavicle				interm. cun.			
c3-7					scapula		1		lat.cuneiform			
thoracic					humerus	1	1		cuboid			
t1-t12					radius				Metatarsals			
lumbar					ulna		1		Phalanges			
l1-5					Wrist				proximal			
sacral					scaphoid				middle			
s1					lunate				distal			
s2-5					triquetrum							
coccyx					pisiform							
Sternum					trapezium							
Ribs					trapezoid							

Figure 3.40. Skeletal Summary 35E

RECOVERY 36E

Mortuary Attributes

Burial Orientation

The burial was oriented with the head to the southwest and the feet to the northeast.

Coffin Shape and Size

The remnants of the coffin and/or distinct outline of differently colored soil indicated that the coffin was hexagonal in shape. It was impacted, hindering an accurate determination of length. The coffin width was 18 inches (45.72 cm) at its maximum and 9 inches (22.86 cm) at its minimum.

Hardware

No hardware was recovered.

Cultural Attributes

Clothing

One ceramic, four-hole, dish-style button was recovered.

Other Personal Artifacts

No other personal artifacts were recovered.

Other Inclusions or Offerings

No other inclusions or offerings were recovered.

Summary and Estimated Date of Burial

Prosser process buttons were manufactured between 1849 and 1910, while the interment dates of the cemetery were between 1879 and 1922. The estimated date of burial is between 1879 and 1910.

Osteological Attributes

Inventory and Preservation

This individual is represented by a mandible with teeth and long bones from the upper and lower limbs (Figure 3.41). The bone is in poor condition.

Age

The age of the individual was determined to be an adult based on dental development (>21 years).

Sex

The sex of the individual was determined to be female based on the mental eminence and morphology of the mandible.

Stature

Could not be determined due to missing elements.

Ancestry

Could not be determined due to missing elements.

Skeletal Pathology

Periosteal bone formation, due to infection, was observed surrounding the shafts of the left and right tibiae and right fibula. The affected area was striated with porosity indicating it was healing at the time of death.

Dental Pathology

Moderate dental wear was observed on the teeth recovered. There was antemortem tooth loss of the right mandibular second premolar, right mandibular first and second molars and left and right mandibular third molars. A carious lesion was observed on the interproximal surface of the left mandibular second molar.

Osteological Summary for 36E

This individual was represented by a mandible and long bones from the upper and lower limbs. The individual was determined to be an adult female with periosteal bone formation, antemortem tooth loss, a carious lesion and moderate dental wear.

36E

Sex: Female

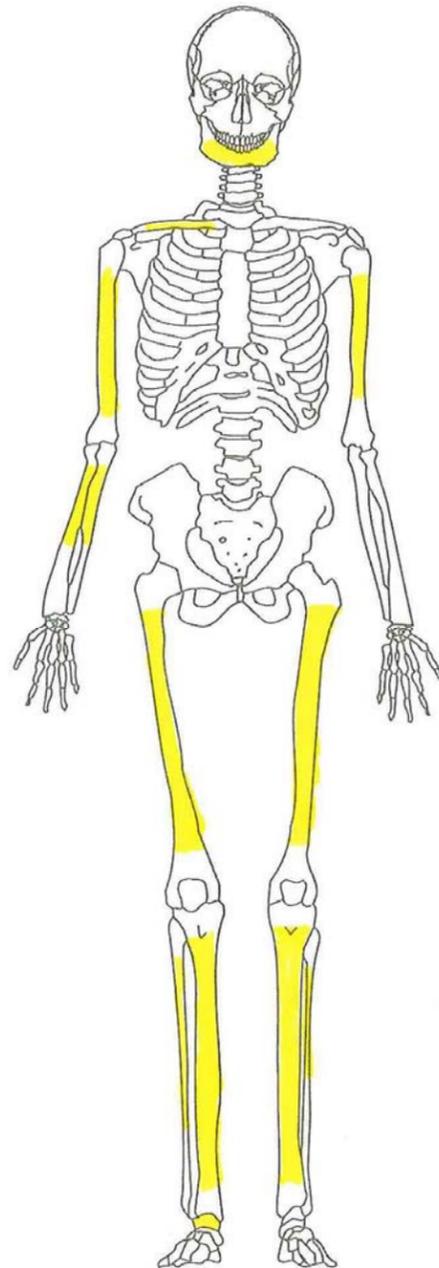
Age: Adult

Ancestry: indeterminate

Height: indeterminate

Skeletal Pathology: Periosteal Bone Formation

Dental Pathology: Antemortem Tooth Loss, Carious Lesion



36E Skeletal Elements Represented												
Element	Axial	Left	Right	Indet.	Element	Left	Right	Indet.	Element	Left	Right	Indet.
Name	MNE	MNE	MNE	MNE	Name	MNE	MNE	MNE	Name	MNE	MNE	MNE
Skull					Teeth				capitate			
frontal					upper I1				hamate			
parietal					upper I2				Metacarpals			
occipital					upper C				Phalanges			
temporal					upper PM1				proximal			
sphenoid					upper PM2				middle			
zygomatic					upper M1				distal			
maxilla					upper M2				Lower Limb			
palatine					upper M3				os coxae			
nasal					lower I1		1		femur	1	1	
ethmoid					lower I2				tibia	1	1	
lacrima					lower C				fibula	1	1	
vomer					lower PM1		1		patella			
mandible	1				lower PM2				Ankle			
hyoid					lower M1				talus		1	
Vertebrae					lower M2	1			calcaneus			
cervical					lower M3				navicular			
c1					Upper Limb				medial cun.			
c2					clavicle		1		interm. cun.			
c3-7					scapula				lat.cuneiform			
thoracic					humerus	1	1		cuboid			
t1-t12					radius		1		Metatarsals			
lumbar					ulna		1		Phalanges			
l1-5					Wrist				proximal			
sacral					scaphoid				middle			
s1					lunate				distal			
s2-5					triquetrum							
coccyx					pisiform							
Sternum					trapezium							
Ribs					trapezoid							

Figure 3.41. Skeletal Summary 36E

RECOVERY 37E

Mortuary Attributes

Burial Orientation

The burial was oriented with the head to the southwest and the feet to the northeast.

Coffin Shape and Size

The remnants of the coffin and/or distinct outline of differently colored soil indicated that the coffin was hexagonal in shape. It was impacted, hindering an accurate determination of length. The coffin width was 18 inches (45.72 cm) at its maximum and was 8 inches (20.32 cm) at its minimum.

Hardware

No hardware was recovered.

Cultural Attributes

Clothing

Two ferrous, four-hole buttons were recovered.

Other Personal Artifacts

No other personal artifacts were recovered.

Other Inclusions or Offerings

No other inclusions or offerings were recovered.

Summary and Estimated Date of Burial

No artifacts were recovered that could accurately estimate the date of burial. The date of burial is estimated to be between the interment dates of the cemetery, 1879 to 1922.

Osteological Attributes

Inventory and Preservation

This individual is represented by a few cranial fragments, dentition, femora and a tibia (Figure 3.42). The bone is in fair condition, but fragmented.

Age

The age of the individual was determined to be an adolescent based on the eruption of the right maxillary second molar (>12 years) and the unfused head of the humerus (<22 years).

Sex

Could not be determined due to missing elements.

Stature

Could not be determined due to missing elements.

Ancestry

Could not be determined due to missing elements.

Skeletal Pathology

No pathological conditions were observed on the recovered remains.

Dental Pathology

Minor dental wear was observed on the teeth recovered. A carious lesion was found on the occlusal surface of the right maxillary second molar.

Osteological Summary for 37E

This individual was represented by cranial fragments, dentition and femora and determined to be an adolescent with minor dental wear and a carious lesion.

37E

Sex: indeterminate

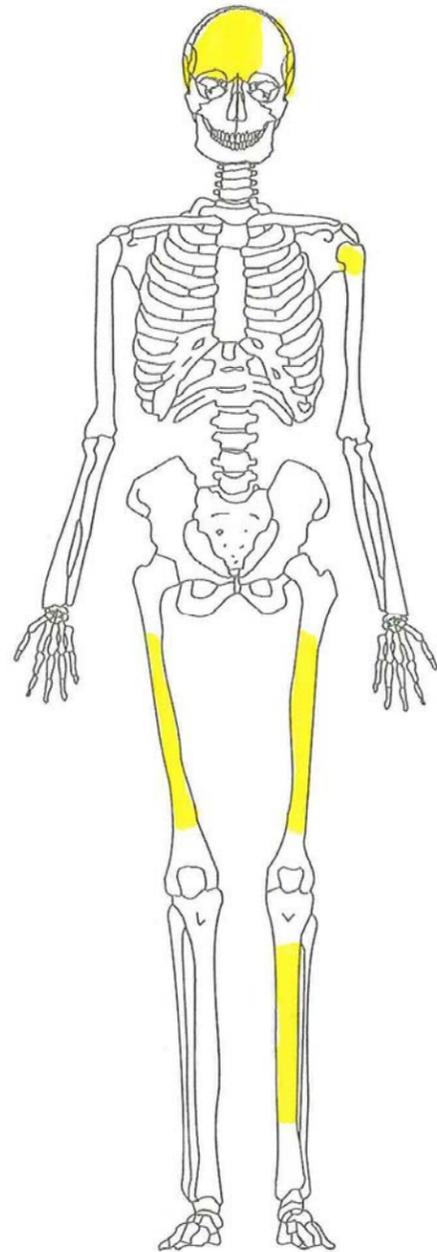
Age: Adolescent

Ancestry: indeterminate

Height: indeterminate

Skeletal Pathology: none observed

Dental Pathology: Carious Lesion



37E Skeletal Elements Represented												
Element Name	Axial MNE	Left MNE	Right MNE	Indet. MNE	Element Name	Left MNE	Right MNE	Indet. MNE	Element Name	Left MNE	Right MNE	Indet. MNE
Skull					Teeth				capitate			
frontal	1				upper I1	1	1		hamate			
parietal				1	upper I2				Metacarpals			
occipital					upper C		1		Phalanges			
temporal		1	1		upper PM1	1			proximal			
sphenoid					upper PM2	1			middle			
zygomatic					upper M1	1	1		distal			
maxilla					upper M2		1		Lower Limb			
palatine					upper M3				os coxae			
nasal					lower I1	1			femur	1	1	
ethmoid					lower I2		1		tibia	1		
lacrimial					lower C	1	1		fibula			
vomer					lower PM1	1	1		patella			
mandible					lower PM2	1	1		Ankle			
hyoid					lower M1		1		talus			
Vertebrae					lower M2				calcaneus			
cervical					lower M3				navicular			
c1					Upper Limb				medial cun.			
c2					clavicle				interm. cun.			
c3-7					scapula				lat.cuneiform			
thoracic					humerus	1			cuboid			
t1-t12					radius				Metatarsals			
lumbar					ulna				Phalanges			
l1-5					Wrist				proximal			
sacral					scaphoid				middle			
s1					lunate				distal			
s2-5					triquetrum							
coccyx					pisiform							
Sternum					trapezium							
Ribs					trapezoid							

Figure 3.42. Skeletal Summary 37E

RECOVERY 38E

Mortuary Attributes

Burial Orientation

The burial was oriented with the head to the southwest and the feet to the northeast.

Coffin Shape and Size

The remnants of the coffin and/or distinct outline of differently colored soil indicated that the coffin was hexagonal in shape. It was 63 inches (160.02 cm) long, 16 inches (40.64 cm) at its maximum width and 7 inches (17.78 cm) at its minimum width.

Hardware

Seven non-diagnostic nail fragments were discarded.

Cultural Attributes

Clothing

One ceramic, four-hole, dish-style button was recovered.

Other Personal Artifacts

Three fragments of a non-ferrous ring and one rubber comb were recovered.

Other Inclusions or Offerings

No other inclusions or offerings were recovered.

Summary and Estimated Date of Burial

Prosser process buttons were manufactured between 1849 and 1910, while the interment dates of the cemetery were between 1879 and 1922. The estimated date of burial is between 1879 and 1910.

Osteological Attributes

Inventory and Preservation

This individual is mainly represented by cranial fragments, dentition, upper limb and lower limb bones (Figure 3.43). The bone is fragmentary but in good condition.

Age

The age of the individual was determined to be an adult over based on the development of the third molars (>21 years).

Sex

Could not be determined due to missing elements.

Stature

Could not be determined due to missing elements.

Ancestry

The ancestry of the individual was determined to be Asian based on shovel shaped incisors.

Skeletal Pathology

The individual exhibited flexor ligament hypertrophy on the palmar surfaces of the left hand phalanges. This indicates extensive, habituation flexion of the left hand that was probably occupation-related.

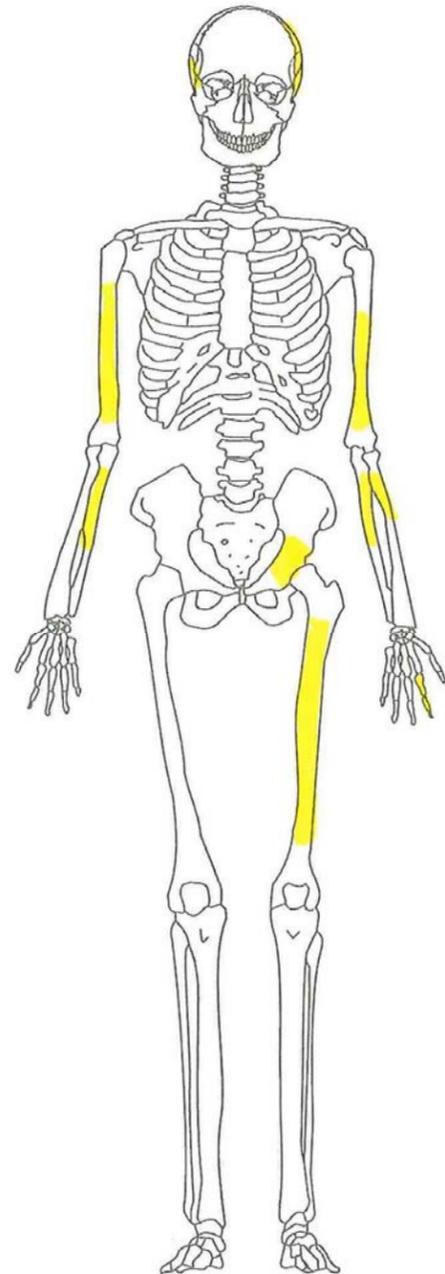
Dental Pathology

Minor wear was found on the anterior teeth and minor to moderate wear was observed on the molars. No dental pathological conditions were observed on the recovered remains.

Osteological Summary for 38E

This individual was mainly represented by a skull and upper limb bones and determined to be an adult of Asian ancestry that exhibited flexor ligament hypertrophy on the palmar surfaces of the hand phalanges and minor to moderate dental wear.

38E
 Sex: indeterminate
 Age: Adult
 Ancestry: Asian
 Height: indeterminate
 Skeletal Pathology: Ligament
 Hypertrophy
 Dental Pathology: none observed



38E Skeletal Elements Represented												
Element Name	Axial MNE	Left MNE	Right MNE	Indet. MNE	Element Name	Left MNE	Right MNE	Indet. MNE	Element Name	Left MNE	Right MNE	Indet. MNE
Skull					Teeth				capitate			
frontal					upper I1		1		hamate			
parietal				1	upper I2		1		Metacarpals			
occipital					upper C	1	1		Phalanges			
temporal		1	1		upper PM1	1	1		proximal	1		
sphenoid					upper PM2	1	1		middle	1		
zygomatic					upper M1	1	1		distal			
maxilla					upper M2	1	1		Lower Limb			
palatine					upper M3	1			os coxae			1
nasal					lower I1				femur	1		
ethmoid					lower I2	1	1		tibia			
lacrimial					lower C	1	1		fibula			
vomer					lower PM1	1	1		patella			
mandible					lower PM2	1	1		Ankle			
hyoid					lower M1	1	1		talus			
Vertebrae					lower M2	1	1		calcaneus			
cervical					lower M3	1	1		navicular			
c1					Upper Limb				medial cun.			
c2					clavicle				interm. cun.			
c3-7					scapula				lat.cuneiform			
thoracic					humerus	1	1		cuboid			
t1-t12					radius			1	Metatarsals			
lumbar					ulna	1	1		Phalanges			
l1-5					Wrist				proximal			
sacral					scaphoid				middle			
s1					lunate				distal			
s2-5					triquetrum							
coccyx					pisiform							
Sternum					trapezium							
Ribs					trapezoid							

Figure 3.43. Skeletal Summary 38E

RECOVERY 39E

Mortuary Attributes

Burial Orientation

The burial was oriented with the head to the northeast and the feet to the southwest.

Coffin Shape and Size

The remnants of the coffin and/or distinct outline of differently colored soil indicated that the coffin was hexagonal in shape. It was 69 inches (175.26 cm) long, 18 inches (45.72 cm) at its maximum width and 8 inches (20.32 cm) at its minimum width.

Hardware

Twenty-nine non-diagnostic nail fragments were discarded.

Cultural Attributes

Clothing

Four ceramic, four-hole buttons, one non-ferrous button and one fragment of a brown, woven fabric were recovered.

Other Personal Artifacts

No other personal artifacts were recovered.

Other Inclusions or Offerings

No other inclusions or offerings were recovered.

Summary and Estimated Date of Burial

Prosser process buttons were manufactured between 1849 and 1910, while the interment dates of the cemetery were between 1879 and 1922. The estimated date of burial is between 1879 and 1910.

Osteological Attributes

Inventory and Preservation

The minimum number of individuals is two based on the presence of two right femoral shafts. Individual A is represented by a relatively complete skull, dentition and lower limbs (Figure 3.43). Individual B is represented only by a right femoral shaft. The bone is in fair condition, but fragmented.

Age

The age of Individual A was determined to be a young to middle adult based on the closure of the external cranial vault sutures (27-45 years).

Sex

The sex of Individual A was determined to be male based on the nuchal crest, mastoid process, glabella, mental eminence and mandibular morphology.

Stature

Could not be determined due to missing elements.

Ancestry

Could not be determined due to missing elements.

Skeletal Pathology

No pathological conditions were observed on the recovered remains.

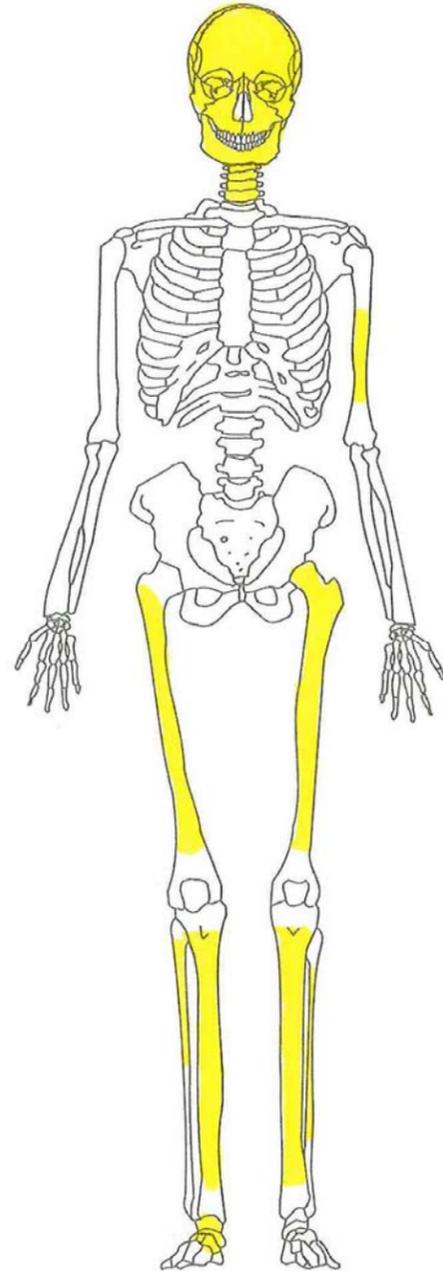
Dental Pathology

Moderate dental wear was observed on the teeth of Individual A. The left and right maxillary first molars and the left mandibular first molar were lost antemortem. One carious lesion destroyed the complete crown of the right mandibular first molar.

Osteological Summary for 39E

The minimum number of individuals for this recovery is two based on two right femoral shafts. Individual A was represented by a skull and lower limb bones and determined to be a young to middle adult male with antemortem tooth loss, a carious lesion and moderate dental wear. Individual B is represented only by a right femoral shaft.

39Ea
 Sex: Male
 Age: Young to Middle Adult
 Ancestry: indeterminate
 Height: indeterminate
 Skeletal Pathology: none observed
 Dental Pathology: Antemortem Tooth Loss, Carious Lesion



39Ea Skeletal Elements Represented												
Element Name	Axial MNE	Left MNE	Right MNE	Indet. MNE	Element Name	Left MNE	Right MNE	Indet. MNE	Element Name	Left MNE	Right MNE	Indet. MNE
Skull					Teeth				capitate			
frontal	1				upper I1	1	1		hamate			
parietal		1	1		upper I2	1	1		Metacarpals			
occipital	1				upper C	1	1		Phalanges			
temporal		1	1		upper PM1	1	1		proximal			
sphenoid	1				upper PM2	1	1		middle			
zygomatic		1	1		upper M1				distal			
maxilla		1	1		upper M2	1	1		Lower Limb			
palatine					upper M3	1	1		os coxae			
nasal		1	1		lower I1	1	1		femur	1	2	
ethmoid					lower I2	1	1		tibia	1	1	
lacrimial					lower C	1	1		fibula	1	1	
vomer					lower PM1	1	1		patella			
mandible	1				lower PM2	1	1		Ankle			
hyoid					lower M1		1		talus		1	
Vertebrae					lower M2	1	1		calcaneus		1	
cervical					lower M3	1	1		navicular			
c1					Upper Limb				medial cun.			
c2	1				clavicle				interm. cun.			
c3-7	4				scapula				lat.cuneiform			
thoracic					humerus	1			cuboid			
t1-t12					radius				Metatarsals			
lumbar					ulna				Phalanges			
l1-5					Wrist				proximal			
sacral					scaphoid				middle			
s1					lunate				distal			
s2-5					triquetrum							
coccyx					pisiform							
Sternum					trapezium							
Ribs					trapezoid							

Figure 3.44. Skeletal Summary 39Ea

RECOVERY 40E

Mortuary Attributes

Burial Orientation

The burial was oriented with the head to the northeast and the feet to the southwest.

Coffin Shape and Size

The remnants of the coffin and/or distinct outline of differently colored soil indicated that the coffin was hexagonal in shape. It was 75 inches (190.5 cm) long, 18 inches (45.72 cm) at its maximum width and 12 inches (30.48 cm) at its minimum width.

Hardware

No hardware was recovered.

Cultural Attributes

Clothing

Ten ceramic, four-hole, dish-style buttons were recovered: one on the left arm, one on the left arm or hip, two on the chest, one on the abdomen, one below the right elbow, one on the upper chest, one on the upper chest or neck and two between the legs. Two fragments of one two-hole, grid-pattern, composition button were recovered from the right hand or abdomen. Two fragments of one shell, four-hole button and multiple leather strips with boot eyelets attached were recovered.

Other Personal Artifacts

No other personal artifacts were recovered.

Other Inclusions or Offerings

Two .44 caliber bullets were recovered, one from the abdomen near the right arm and one from the mid-chest area. One .44 caliber whole bullet was found at the left arm. Six unidentified, non-ferrous, curved fragments were recovered from between the knees.

Summary and Estimated Date of Burial

The unaltered form of and crimping on, the bullets suggest that the bullets were unfired rather than a cause of death. Thus they appear to constitute a burial offering.

Prosser process buttons were manufactured between 1849 and 1910, while the interment dates of the cemetery were between 1877 and 1922. The estimated date of burial is between 1877 and 1910.

Osteological Attributes

Inventory and Preservation

This individual is represented by cranial fragments, dentition and the upper and lower limbs (Figure 3.45). The bone is in fair condition, but fragmented and friable.

Age

The age of the individual was determined to be an adult based on the complete eruption of the right mandibular third molar (>21 years).

Sex

Could not be determined due to missing elements.

Stature

Could not be determined due to missing elements.

Ancestry

The ancestry of the individual was determined to be Asian based on the shovel shaped incisors.

Skeletal Pathology

No pathological conditions were observed on the recovered remains.

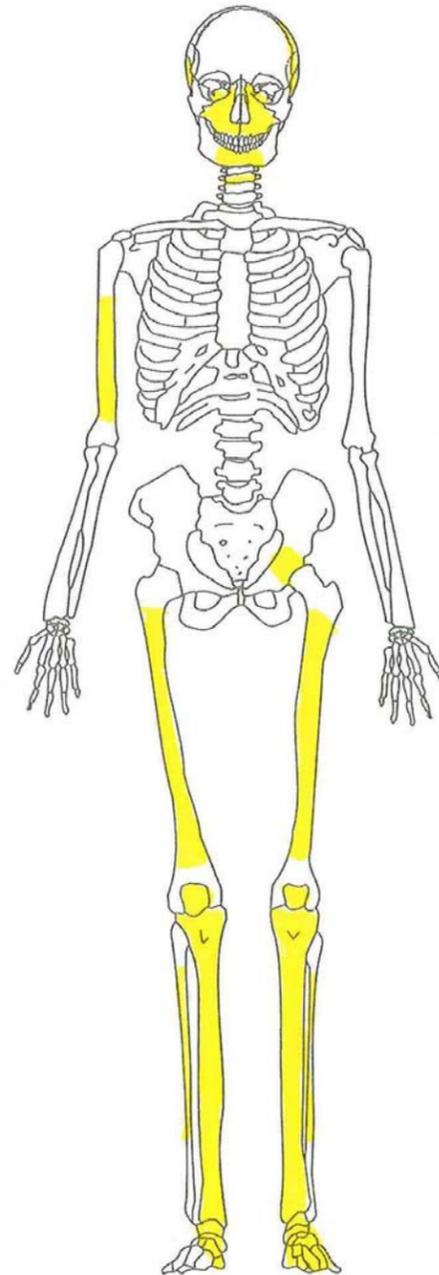
Dental Pathology

No pathological conditions were observed on the recovered remains. Minor to moderate dental wear was observed on the teeth recovered.

Osteological Summary for 40E

This individual was represented by cranial fragments, teeth and the lower limbs and determined to be an adult of Asian ancestry with minor to moderate wear.

40E
 Sex: indeterminate
 Age: Adult
 Ancestry: Asian
 Height: indeterminate
 Skeletal Pathology: none observed
 Dental Pathology: none observed



40E Skeletal Elements Represented												
Element Name	Axial MNE	Left MNE	Right MNE	Indet. MNE	Element Name	Left MNE	Right MNE	Indet. MNE	Element Name	Left MNE	Right MNE	Indet. MNE
Skull					Teeth				capitate			
frontal					upper I1	1	1		hamate			
parietal				1	upper I2	1	1		Metacarpals			
occipital	1				upper C	1			Phalanges			
temporal		1	1		upper PM1	1	1		proximal			
sphenoid					upper PM2	1	1		middle			
zygomatic					upper M1		1		distal			
maxilla		1	1		upper M2	1			Lower Limb			
palatine					upper M3		1		os coxae	1		
nasal					lower I1				femur	1	1	
ethmoid					lower I2				tibia	1	1	
lacrimial					lower C	1			fibula	1	1	
vomer					lower PM1	1			patella	1	1	
mandible	1				lower PM2	1	1		Ankle			
hyoid					lower M1	1	1		talus	1	1	
Vertebrae					lower M2				calcaneus	1		
cervical					lower M3				navicular	1	1	
c1					Upper Limb				medial cun.	1		
c2	1				clavicle				interm. cun.	1	1	
c3-7					scapula				lat.cuneiform	1	1	
thoracic					humerus		1		cuboid	1	1	
t1-t12					radius				Metatarsals	5		
lumbar					ulna				Phalanges			
l1-5					Wrist				proximal			1
sacral					scaphoid				middle			
s1					lunate				distal			
s2-5					triquetrum							
coccyx					pisiform							
Sternum					trapezium							
Ribs					trapezoid							

Figure 3.45. Skeletal Summary 40E

RECOVERY 41E

Mortuary Attributes

Burial Orientation

The burial was oriented with the head to the southwest and the feet to the northeast.

Coffin Shape and Size

The remnants of the coffin and/or distinct outline of differently colored soil indicated that the coffin was hexagonal in shape. It was 70 inches (177.8 cm) long, 17 inches (43.18 cm) at its maximum width and 8" at its minimum width.

Hardware

Nine non-diagnostic nail fragments were discarded.

Cultural Attributes

Clothing

One four-hole, tire-style button was recovered.

Other Personal Artifacts

No other personal artifacts were recovered.

Other Inclusions or Offerings

No other inclusions or offerings were recovered.

Summary and Estimated Date of Burial

No artifacts were recovered that could accurately estimate the date of burial. The date of burial is estimated to be between the interment dates of the cemetery, 1879 to 1922.

Osteological Attributes

Inventory and Preservation

This individual is represented by a fragmented skull, dentition and 30% of the post-cranial skeleton (Figure 3.46). The post-cranial skeleton consists of the second cervical vertebra and upper and lower limb bones. The bone is in fair condition, but fragmented.

Age

The age of the individual was determined to be an adult based on the wear and complete eruption of the mandibular third molars (>23 years).

Sex

The sex of the individual was determined in the field to be male based on cranial morphology and the greater sciatic notch of the left os coxa.

Stature

Could not be determined due to missing elements.

Ancestry

The ancestry of the individual was determined to be Euro-American based on nasal morphology.

Skeletal Pathology

No pathological conditions were observed on the recovered remains.

Dental Pathology

Minor to moderate wear was observed on the anterior teeth and moderate wear was observed on the molars. The individual exhibited hypoplasia in the form of horizontal linear grooves 6.18 mm from the CEJ on the right maxillary canine, 5.34 mm from the CEJ on the right maxillary second incisor, 4.59 mm and 6.08 mm from the CEJ on the right maxillary first incisor, 6.97 mm from the CEJ on the left maxillary second incisor, 6.57 mm and 3.60 mm left mandibular canine, 3.82 mm from the CEJ on the right mandibular second incisor and 3.92 mm and 6.75 mm from the CEJ on the right mandibular canine.

Osteological Summary for 41E

The individual is mainly represented by the skull with dentition and upper and lower limb bones. The individual was determined to be an adult male of Euro-American ancestry with hypoplasias and minor to moderate dental wear.

41E

Sex: Male

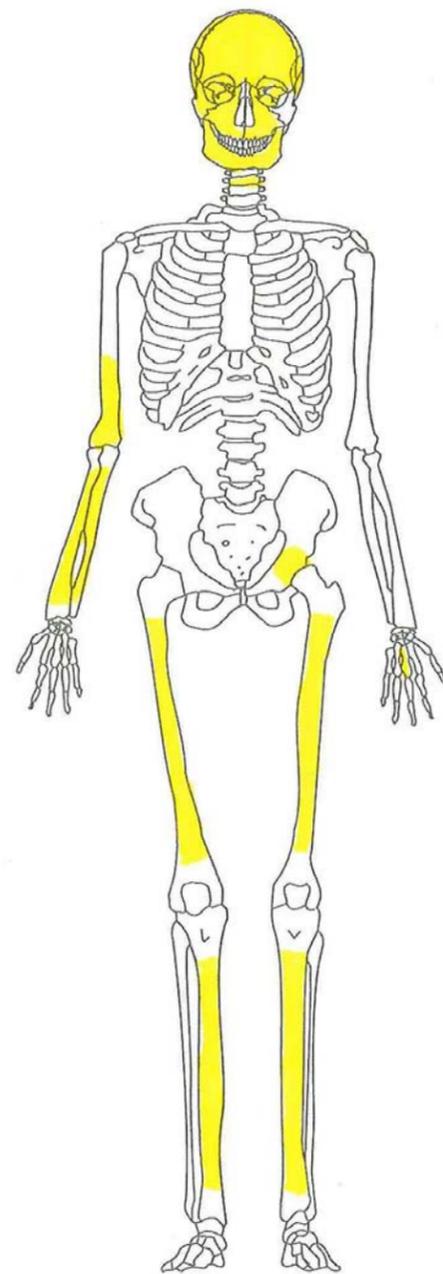
Age: Adult

Ancestry: Euro-American

Height: indeterminate

Skeletal Pathology: none observed

Dental Pathology: Hypoplasias



41E Skeletal Elements Represented												
Element Name	Axial MNE	Left MNE	Right MNE	Indet. MNE	Element Name	Left MNE	Right MNE	Indet. MNE	Element Name	Left MNE	Right MNE	Indet. MNE
Skull					Teeth				capitate			
frontal	1				upper I1		1		hamate			
parietal		1	1		upper I2	1	1		Metacarpals			1
occipital	1				upper C		1		Phalanges			
temporal		1	1		upper PM1	1	1		proximal			
sphenoid	1				upper PM2	1	1		middle			
zygomatic			1		upper M1	1	1		distal			
maxilla		1	1		upper M2		1		Lower Limb			
palatine					upper M3		1		os coxae	1		
nasal					lower I1	1	1		femur	1	1	
ethmoid	1				lower I2		1		tibia	1	1	
lacrimial					lower C	1	1		fibula			
vomer					lower PM1	1	1		patella			
mandible	1				lower PM2	1	1		Ankle			
hyoid					lower M1	1			talus			
Vertebrae					lower M2	1	1		calcaneus			
cervical					lower M3	1	1		navicular			
c1					Upper Limb				medial cun.			
c2	1				clavicle				interm. cun.			
c3-7					scapula				lat.cuneiform			
thoracic					humerus		1		cuboid			
t1-t12					radius		1		Metatarsals			
lumbar					ulna		1		Phalanges			
l1-5					Wrist				proximal			
sacral					scaphoid				middle			
s1					lunate				distal			
s2-5					triquetrum							
coccyx					pisiform							
Sternum					trapezium							
Ribs					trapezoid							

Figure 3.46. Skeletal Summary 41E

RECOVERY 42E

Mortuary Attributes

Burial Orientation

The burial was oriented with the head to the southwest and the feet to the northeast.

Coffin Shape and Size

The remnants of the coffin and/or distinct outline of differently colored soil indicated that the coffin was hexagonal in length. It was 74 inches (187.96 cm) long, 18 inches (45.72 cm) at its maximum width and 9 inches (22.86 cm) at its minimum width.

Hardware

Six fragments of four swing bail handles, two escutcheons and one thumbscrew were recovered.

Cultural Attributes

Clothing

Six ceramic buttons were recovered, five ceramic four-hole, pie crust-style buttons with red paint around the rim and one four-hole, dish-style button. Also recovered were ten vulcanized rubber buttons with ferrous shanks, one ferrous, four-hole button and two brown, woven fabric garment fragments.

Other Personal Artifacts

No other personal artifacts were recovered.

Other Inclusions or Offerings

No other inclusions or offerings were recovered.

Summary and Estimated Date of Burial

Prosser process buttons were manufactured between 1849 and 1910, while the interment dates of the cemetery were between 1879 and 1922. The estimated date of burial is between 1879 and 1910.

Osteological Attributes

Inventory and Preservation

This individual was represented by a fragmented skull, dentition and 60% of the post-cranial skeleton (Figure 3.47). The post-cranial skeleton consists mostly of the upper and lower limbs except for both radii.

Age

The age of the individual was determined to be an adult based on the on the wear and complete eruption of the third molars (>23 years).

Sex

The sex of the individual was determined to be a male based on the vertical diameter of the left femoral head (49.25 mm).

Stature

Could not be determined due to missing elements.

Ancestry

The ancestry of the individual was determined to be a mix between Asian and Euro-American based on the cranial morphological observations made in field.

Skeletal Pathology

No pathological conditions were observed on the recovered remains.

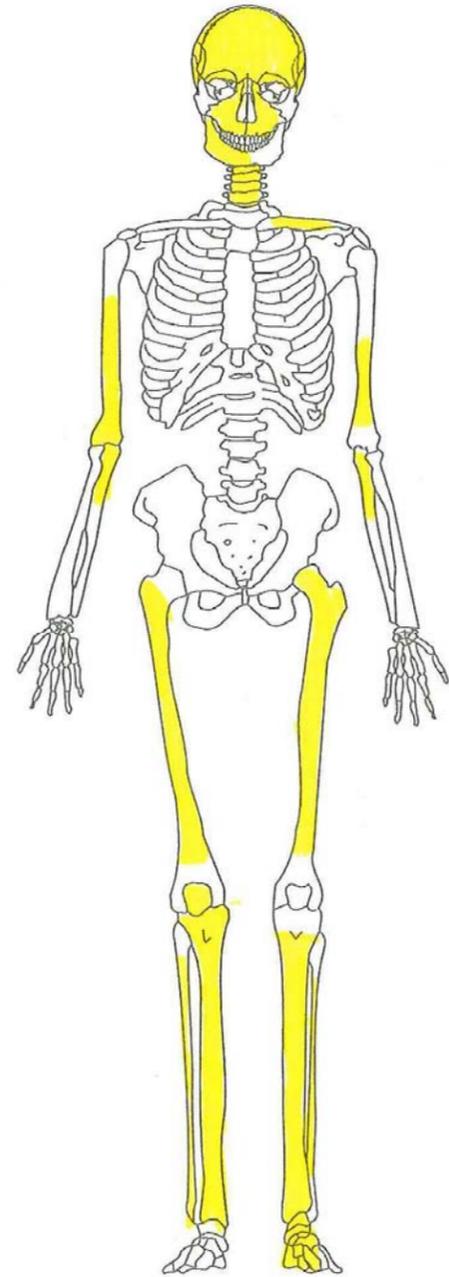
Dental Pathology

Moderate wear was observed on the anterior teeth and minor wear was found on the molars. Hypoplasia in the form of horizontal linear grooves was observed 5.20 mm from the CEJ on the right maxillary first incisor, 7.18 mm from the CEJ on the left maxillary first incisor, 5.10 mm from the CEJ on the left maxillary canine, 5.42 mm and 8.33 mm from the CEJ on the left mandibular canine and 5.39 mm from the CEJ on the right mandibular canine.

Osteological Summary for 42E

The individual is represented by a fragmented skull with dentition and upper and lower limb bones. The individual was determined to be an adult male with hypoplasias and minor to moderate dental wear.

42E
 Sex: Male
 Age: Adult
 Ancestry: Mixed
 Height: indeterminate
 Skeletal Pathology: none observed
 Dental Pathology: Hypoplasia



42E Skeletal Elements Represented												
Element Name	Axial MNE	Left MNE	Right MNE	Indet. MNE	Element Name	Left MNE	Right MNE	Indet. MNE	Element Name	Left MNE	Right MNE	Indet. MNE
Skull					Teeth				capitate			
frontal	1				upper I1	1	1		hamate			
parietal		1	1		upper I2	1			Metacarpals			
occipital	1				upper C	1			Phalanges			
temporal		1	1		upper PM1	1			proximal			
sphenoid					upper PM2				middle			
zygomatic					upper M1	1	1		distal			
maxilla		1	1		upper M2		1		Lower Limb			
palatine					upper M3	1			os coxae			
nasal					lower I1	1	1		femur	1	1	
ethmoid					lower I2	1	1		tibia	1	1	
lacrimial					lower C	1	1		fibula	1	1	
vomer					lower PM1	1	1		patella		1	
mandible	1				lower PM2	1	1		Ankle			
hyoid					lower M1	1	1		talus	1		
Vertebrae					lower M2	1	1		calcaneus	1		
cervical					lower M3	1	1		navicular			
c1	1				Upper Limb				medial cun.			
c2	1				clavicle	1			interm. cun.			
c3-7	3				scapula				lat.cuneiform			
thoracic					humerus	1	1		cuboid			
t1-t12					radius				Metatarsals			
lumbar					ulna	1	1		Phalanges			
l1-5					Wrist				proximal			
sacral					scaphoid				middle			
s1					lunate				distal			
s2-5					triquetrum							
coccyx					pisiform							
Sternum					trapezium							
Ribs					trapezoid							

Figure 3.47. Skeletal Summary 42E

RECOVERY 43E

Mortuary Attributes

Burial Orientation

The burial was oriented with the head to the southeast and the feet to the northwest.

Coffin Shape and Size

No coffin was observed.

Hardware

No hardware was recovered.

Cultural Attributes

Clothing

No clothing-related artifacts were recovered.

Other Personal Artifacts

No other personal artifacts were recovered.

Other Inclusions or Offerings

No other inclusions or offerings were recovered.

Summary and Estimated Date of Burial

No artifacts were recovered that could accurately date the burial. The date of burial is estimated to be between the interment dates of the cemetery, 1879 to 1922.

Osteological Attributes

Inventory and Preservation

This individual is represented by 65% of the post-cranial skeleton (Figure 3.48). The post-cranial skeleton consists of the upper and lower limbs except for the right humerus. The bone is in fair condition, but fragmented.

Age

The age of the individual was determined to be a middle to old adult based on the auricular surface of the right os coxa (45-59 years).

Sex

The sex of the individual was determined to be a male based on the vertical diameter of the glenoid cavity of the scapula (42.04 mm).

Stature

Could not be determined due to missing elements.

Ancestry

Could not be determined due to missing elements.

Skeletal Pathology

No pathological conditions were observed on the recovered remains.

Dental Pathology

Could not be determined due to missing elements.

Osteological Summary for 43E

This individual was represented by upper and lower limb bones and determined to be a middle to old adult male.

43E

Sex: Male

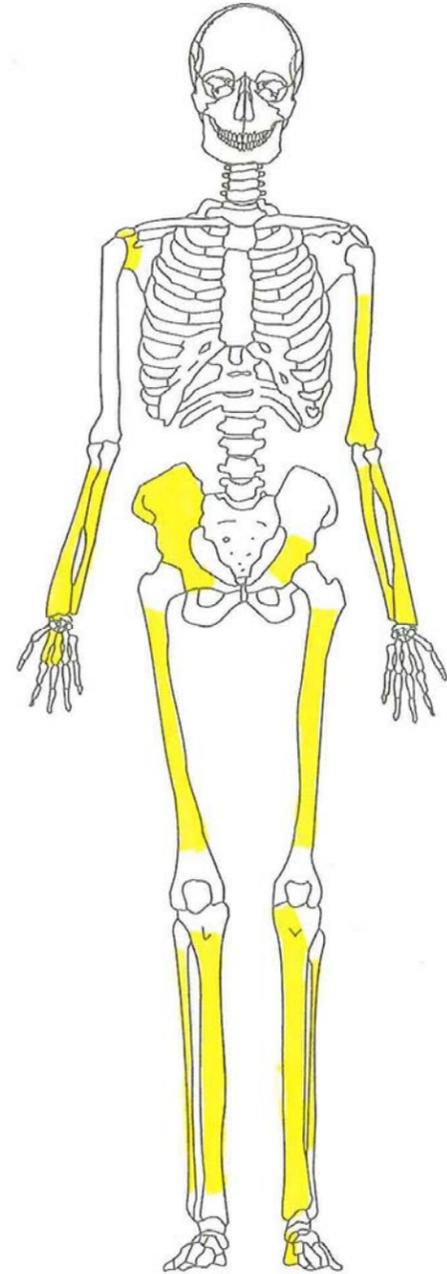
Age: Middle to Old Adult

Ancestry: indeterminate

Height: indeterminate

Skeletal Pathology: none observed

Dental Pathology: indeterminate



43E Skeletal Elements Represented												
Element Name	Axial MNE	Left MNE	Right MNE	Indet. MNE	Element Name	Left MNE	Right MNE	Indet. MNE	Element Name	Left MNE	Right MNE	Indet. MNE
Skull					Teeth				capitate			
frontal					upper I1				hamate			
parietal					upper I2				Metacarpals			2
occipital					upper C				Phalanges			
temporal					upper PM1				proximal			
sphenoid					upper PM2				middle			
zygomatic					upper M1				distal			
maxilla					upper M2				Lower Limb			
palatine					upper M3				os coxae	1	1	
nasal					lower I1				femur	1	1	
ethmoid					lower I2				tibia	1	1	
lacrimial					lower C				fibula	1	1	
vomer					lower PM1				patella			
mandible					lower PM2				Ankle			
hyoid					lower M1				talus			
Vertebrae					lower M2				calcaneus	1		
cervical					lower M3				navicular			
c1					Upper Limb				medial cun.			
c2					clavicle				interm. cun.			
c3-7					scapula		1		lat.cuneiform			
thoracic					humerus	1			cuboid			
t1-t12					radius	1	1		Metatarsals			
lumbar					ulna	1	1		Phalanges			
l1-5					Wrist				proximal			
sacral					scaphoid				middle			
s1					lunate				distal			
s2-5					triquetrum							
coccyx					pisiform							
Sternum					trapezium							
Ribs					trapezoid							

Figure 3.48. Skeletal Summary 43E

RECOVERY 44E

Mortuary Attributes

Burial Orientation

The burial was oriented with the head to the northeast and the feet to the southwest.

Coffin Shape and Size

The remnants of the coffin and/or distinct outline of differently colored soil indicated that the coffin was hexagonal in shape. It was 70 inches (177.8 cm) long, 18 inches (45.72 cm) at its maximum width and 11 inches (27.94 cm) at its minimum width.

Hardware

No hardware was recovered.

Cultural Attributes

Clothing

Three ferrous buttons, two ferrous buckle fragments and fragments of a brown, woven garment were recovered. A leather shoe fragment was also recovered.

Other Personal Artifacts

No other personal artifacts were recovered.

Other Inclusions or Offerings

One non-ferrous strap with holes and one non-ferrous hinge were recovered. Fragments of a clear, pharmaceutical or toiletry bottle manufactured on a cup-bottom mold with a tooled finish between 1890 and the late 1910s were recovered.

Summary and Estimated Date of Burial

No artifacts were recovered that could accurately estimate the date of burial. The date of burial is estimated to be between the interment dates of the cemetery, 1879 to 1922.

Osteological Attributes

Inventory and Preservation

This individual is represented by a partial skull, dentition and 75% of the post-cranial skeleton (Figure 3.49). The post-cranial skeleton consists of upper and lower limb bones and vertebrae. The bone is in fair condition, but fragmented.

Age

The age of the individual was determined to be a young to middle adult based on the auricular surface of the left os coxae (30-39 years).

Sex

The sex of the individual was determined to be a female based on cranial morphology and the greater sciatic notch of the os coxa.

Stature

Could not be determined due to missing elements.

Ancestry

The ancestry of the individual was determined to be a mix between Asian and Euro-American based on cranial morphology.

Skeletal Pathology

No pathological conditions were observed on the recovered remains.

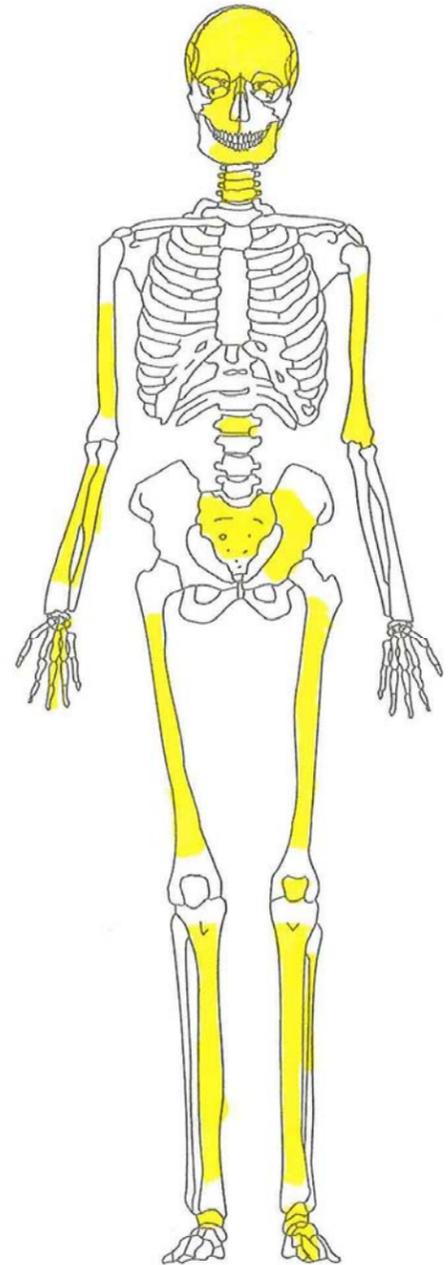
Dental Pathology

The anterior teeth exhibited extensive wear and moderate wear was found on the molars. The right maxillary first premolar, the left maxillary third molar, the left mandibular first molar and the left mandibular third molar were lost antemortem. The individual exhibited an abscess on the mandible. Carious lesions were found on the mesial interproximal and occlusal surface of the left maxillary third molar. The occlusal carious lesion was treated with a gold filling.

Osteological Summary for 44E

This individual is represented by a partial skull, dentition and upper and lower limb bones. The individual was determined to be a young to middle adult female of mixed ancestry with an abscess, antemortem tooth loss, carious lesions, a gold filling and moderate to extensive dental wear.

44E
 Sex: Female
 Age: Young to Middle Adult
 Ancestry: Mixed
 Height: indeterminate
 Skeletal Pathology: none observed
 Dental Pathology: Abscess, Carious Lesions, Gold Filling,
 Extensive Wear, Antemortem Tooth Loss



44E Skeletal Elements Represented												
Element Name	Axial MNE	Left MNE	Right MNE	Indet. MNE	Element Name	Left MNE	Right MNE	Indet. MNE	Element Name	Left MNE	Right MNE	Indet. MNE
Skull					Teeth				capitate			
frontal	1				upper I1		1		hamate			
parietal		1	1		upper I2		1		Metacarpals		2	
occipital	1				upper C		1		Phalanges			3
temporal		1	1		upper PM1				proximal			
sphenoid	1				upper PM2				middle			
zygomatic					upper M1				distal			
maxilla			1		upper M2				Lower Limb			
palatine					upper M3	1			os coxae	1		
nasal		1	1		lower I1				femur	1	1	
ethmoid	1				lower I2				tibia	1	1	
lacrimial					lower C				fibula	1		
vomer					lower PM1				patella	1		
mandible	1				lower PM2				Ankle			
hyoid					lower M1				talus	1	1	
Vertebrae					lower M2				calcaneus	1		
cervical					lower M3				navicular			
c1					Upper Limb				medial cun.			
c2					clavicle				interm. cun.			
c3-7	3				scapula				lat.cuneiform			
thoracic					humerus	1	1		cuboid			
t1-t12	2				radius		1		Metatarsals			1
lumbar					ulna		1		Phalanges			
l1-5	1				Wrist				proximal			
sacral					scaphoid				middle			
s1	1				lunate		1		distal			
s2-5	2				triquetrum							
coccyx					pisiform							
Sternum					trapezium							
Ribs					trapezoid							

Figure 3.49. Skeletal Summary 44E

RECOVERY 45E

Mortuary Attributes

Burial Orientation

The burial was oriented with the head to the southwest and the feet to the northeast.

Coffin Shape and Size

The remnants of the coffin and/or distinct outline of differently colored soil indicated that the coffin was hexagonal in shape. It was 72 inches (182.88 cm) long, 16 inches (40.64 cm) at its maximum width and 4 inches (10.16 cm) at its minimum width.

Hardware

Twelve non-diagnostic nail fragments were discarded.

Cultural Attributes

Clothing

Three ceramic, shank and gaiter-style buttons, two ferrous, four-hole buttons and four ferrous and non-ferrous, four-hole buttons were recovered.

Other Personal Artifacts

No other personal artifacts were recovered

Other Inclusions or Offerings

No other inclusions or offerings were recovered.

Relevant Field Notes

Due to grading exposing only half of the recovery at a time and due to several rainy days, the recovery was excavated and collected between 10/11/05 and 11/4/05.

Summary and Estimated Date of Burial

Prosser process buttons were manufactured between 1849 and 1910, while the interment dates of the cemetery were between 1879 and 1922. The estimated date of burial is between 1879 and 1910.

Osteological Attributes

Inventory and Preservation

This individual is represented by a relatively complete skull, dentition and 60% of the post-cranial skeleton (Figure 3.50). The skull consists of an intact cranial vault, facial bones and mandible. The upper and lower limb bones are in fair condition, but fragmented.

Age

The age of the individual was determined to be an adult based on the closure of the external cranial vault sutures (30-60 years).

Sex

The sex of the individual was determined to be male based on the nuchal crest, mastoid processes, supraorbital margins, glabella, mental eminence, mandibular morphology and the vertical diameter of the left humeral head (50.01 mm).

Stature

Could not be determined due to missing elements.

Ancestry

The ancestry of the individual was determined to be Euro-American based on the cranial morphology and the present of an inion hook.

Skeletal Pathology

Porotic hyperostosis was observed on the left and right parietals and on the frontal near bregma in the form of indistinct to true porosity. The affected area appeared active at the time of death.

Dental Pathology

Moderate wear was observed on the teeth recovered. There was antemortem loss of the right maxillary first molar, left maxillary second molar, right maxillary second molar and the left mandibular first molar. One carious lesion destroyed the complete crown of the right mandibular first molar.

Osteological Summary for 45E

This individual was represented by a relatively complete skull and the upper and lower limb bones. The individual was determined to be an adult male of Euro-American ancestry with porotic hyperostosis, moderate dental wear, one carious lesion, antemortem tooth loss.

45E

Sex: Male

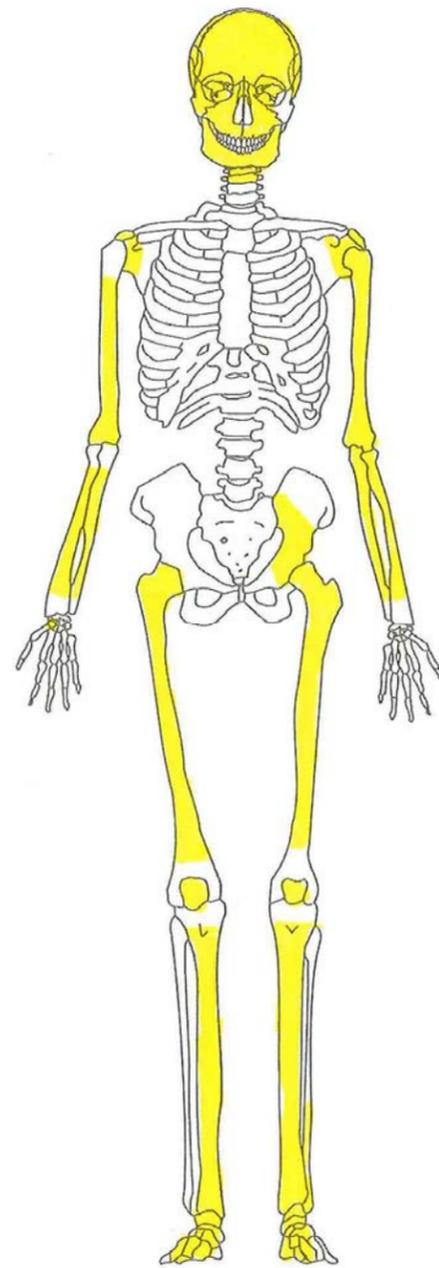
Age: Adult

Ancestry: Euro-American

Height: indeterminate

Skeletal Pathology: Porotic Hyperostosis

Dental Pathology: Antemortem Tooth Loss, Carious Lesion



45E Skeletal Elements Represented												
Element Name	Axial MNE	Left MNE	Right MNE	Indet. MNE	Element Name	Left MNE	Right MNE	Indet. MNE	Element Name	Left MNE	Right MNE	Indet. MNE
Skull					Teeth				capitate			
frontal	1				upper I1		1		hamate			
parietal		1	1		upper I2	1	1		Metacarpals			
occipital	1				upper C	1	1		Phalanges			
temporal		1	1		upper PM1	1	1		proximal			
sphenoid					upper PM2	1	1		middle			
zygomatic			1		upper M1		1		distal			
maxilla		1	1		upper M2				Lower Limb			
palatine					upper M3				os coxae	1		
nasal		1	1		lower I1				femur	1	1	
ethmoid					lower I2				tibia	1	1	
lacrimial					lower C		1		fibula	1		
vomer					lower PM1		1		patella	1	1	
mandible	1				lower PM2		1		Ankle			
hyoid					lower M1		1		talus	1	1	
Vertebrae					lower M2	1	1		calcaneus	1	1	
cervical					lower M3	1	1		navicular			
c1	1				Upper Limb				medial cun.		1	
c2	1				clavicle				interm. cun.			
c3-7					scapula	1	1		lat.cuneiform			
thoracic					humerus	1	1		cuboid	1	1	
t1-t12					radius	1	1		Metatarsals	3	3	
lumbar					ulna	1	1		Phalanges			
l1-5					Wrist				proximal			
sacral					scaphoid		1		middle			
s1					lunate				distal			
s2-5					triquetrum							
coccyx					pisiform							
Sternum					trapezium							
Ribs					trapezoid							

Figure 3.50. Skeletal Summary 45E

RECOVERY 46E

Mortuary Attributes

Burial Orientation

The burial was oriented with the head to the southwest and the feet to the northeast.

Coffin Shape and Size

The remnants of the coffin and/or distinct outline of differently colored soil indicated that the coffin was hexagonal in shape. It was 69 inches (175.26 cm) long, 16 inches (40.64 cm) at its maximum width and 6 inches (15.24 cm) at its minimum width.

Hardware

Eight non-diagnostic nail fragments were discarded.

Cultural Attributes

Clothing

Two ceramic, four-hole, dish-style buttons were recovered.

Other Personal Artifacts

No other personal artifacts were recovered.

Other Inclusions or Offerings

No other inclusions or offerings were recovered

Relevant Field Notes

Due to grading exposing only half of the recovery at a time and due to several rainy days, the recovery was excavated and collected between 10/11/05 and 11/5/05.

Summary and Estimated Date of Burial

Prosser process buttons were manufactured between 1849 and 1910, while the interment dates of the cemetery were between 1879 and 1922. The estimated date of burial is between 1879 and 1910.

Osteological Attributes

Inventory and Preservation

This individual is represented by a partial skull, dentition and 50% of the post-cranial skeleton (Figure 3.51). The skull consists of a fragmented cranial vault and mandible in fair, but friable condition. The upper and lower limb bones and some vertebrae recovered are in poor fragmented condition.

Age

The age of the individual was determined to be an adult based on the presence of osteophytic lipping of the vertebral bodies (>40 years).

Sex

The sex of the individual was determined to be male based on the mastoid process and the mandibular morphology.

Stature

Could not be determined due to missing elements.

Ancestry

Could not be determined due to missing elements.

Skeletal Pathology

Osteophytic lipping was observed in the form of an elevated ring around three lumbar vertebral bodies. Degenerative disc disease was observed in the form of bone resorption on the superior and inferior body surfaces probably due to repeated stress.

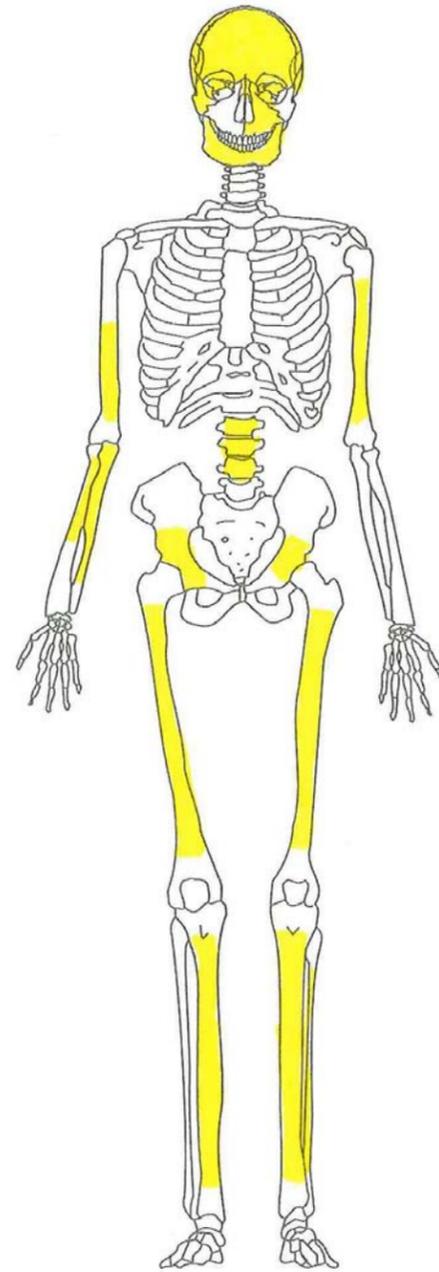
Dental Pathology

Minor dental wear was observed on the teeth recovered. No pathological conditions were observed on the recovered remains.

Osteological Summary for 46E

This individual was represented by a partial skull, dentition and limb bones. The individual was determined to be an adult male with minor dental wear, osteoarthritis and degenerative disc disease.

46E
 Sex: Male
 Age: Adult
 Ancestry: indeterminate
 Height: indeterminate
 Skeletal Pathology: Degenerative Disc Disease, Osteoarthritis
 Dental Pathology: none observed



46E Skeletal Elements Represented												
Element Name	Axial MNE	Left MNE	Right MNE	Indet. MNE	Element Name	Left MNE	Right MNE	Indet. MNE	Element Name	Left MNE	Right MNE	Indet. MNE
Skull					Teeth				capitate	1		
frontal	1				upper I1	1			hamate			
parietal		1	1		upper I2				Metacarpals			
occipital	1				upper C	1	1		Phalanges			
temporal		1	1		upper PM1		1		proximal			
sphenoid	1				upper PM2	1	1		middle			
zygomatic			1		upper M1		1		distal			
maxilla		1			upper M2				Lower Limb			
palatine					upper M3				os coxae	1	1	
nasal		1	1		lower I1				femur	1	1	
ethmoid					lower I2				tibia	1	1	
lacrimial					lower C	1	1		fibula			1
vomer					lower PM1	1			patella			
mandible	1				lower PM2				Ankle			
hyoid					lower M1				talus			
Vertebrae					lower M2				calcaneus			
cervical					lower M3				navicular			
c1					Upper Limb				medial cun.			
c2					clavicle				interm. cun.			
c3-7					scapula				lat.cuneiform			
thoracic					humerus	1	1		cuboid			
t1-t12					radius			1	Metatarsals			
lumbar					ulna		1		Phalanges			
l1-5	3				Wrist				proximal			
sacral					scaphoid				middle			
s1					lunate				distal			
s2-5					triquetrum							
coccyx					pisiform							
Sternum					trapezium							
Ribs					trapezoid							

Figure 3.51. Skeletal Summary 46E

RECOVERY 47E

Mortuary Attributes

Burial Orientation

The burial was oriented with the head to the southwest and the feet to the northeast.

Coffin Shape and Size

The remnants of the coffin and/or distinct outline of differently colored soil indicated that the coffin was hexagonal in shape. It was 75 inches (190.5 cm) long, 16 inches (40.64 cm) at its maximum width and 6 inches (15.24 cm) at its minimum width.

Hardware

Six non-diagnostic nail fragments were discarded.

Cultural Attributes

Clothing

Two ceramic, four-hole, dish-style buttons were recovered.

Other Personal Artifacts

No other personal artifacts were recovered.

Other Inclusions or Offerings

No other inclusions or offerings were recovered.

Summary and Estimated Date of Burial

Prosser process buttons were manufactured between 1849 and 1910, while the interment dates of the cemetery were between 1879 and 1922. The estimated date of burial is between 1879 and 1910.

Osteological Attributes

Inventory and Preservation

This individual is represented by upper and lower limb bones, a left talus and metacarpals (Figure 3.52). The bone is in good condition.

Age

Could not be determined due to missing elements.

Sex

Could not be determined due to missing elements.

Stature

Could not be determined due to missing elements.

Ancestry

Could not be determined due to missing elements.

Skeletal Pathology

The right tibia exhibited periosteal bone formation on the lateral surface of the midshaft. The bone has macroporosity and is smooth, which indicates that it was in the process of healing at the time of death.

Dental Pathology

Could not be determined due to missing elements.

Osteological Summary for 47E

This individual is represented mostly by limb bones and exhibits abnormal periosteal bone formation on the right tibia.

47E

Sex: indeterminate

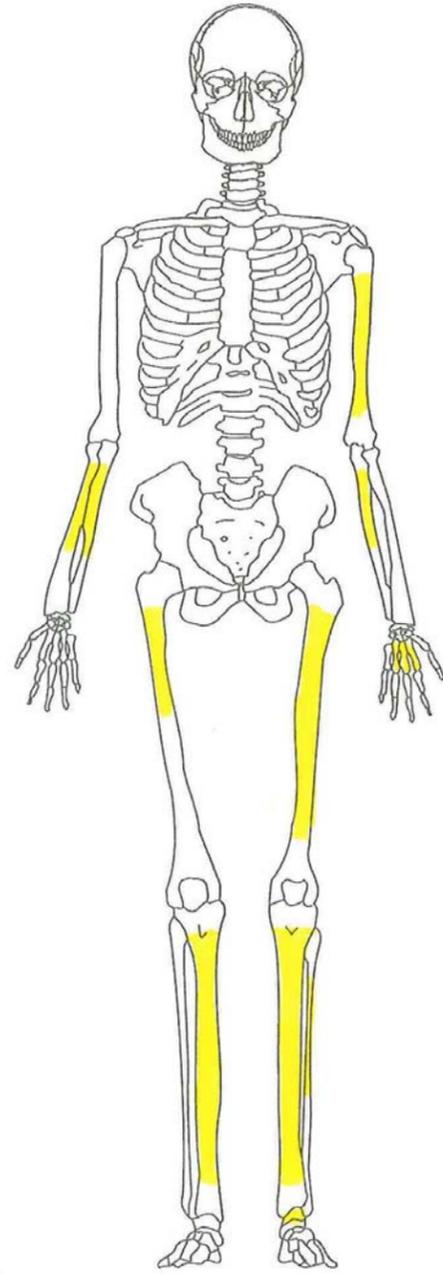
Age: indeterminate

Ancestry: indeterminate

Height: indeterminate

Skeletal Pathology: Periosteal Bone Formation

Dental Pathology: indeterminate



47E Skeletal Elements Representation												
Element Name	Axial MNE	Left MNE	Right MNE	Indet. MNE	Element Name	Left MNE	Right MNE	Indet. MNE	Element Name	Left MNE	Right MNE	Indet. MNE
Skull					Teeth				capitate			
frontal					upper I1				hamate			
parietal					upper I2				Metacarpals			3
occipital					upper C				Phalanges			
temporal					upper PM1				proximal			
sphenoid					upper PM2				middle			
zygomatic					upper M1				distal			
maxilla					upper M2				Lower Limb			
palatine					upper M3				os coxae			
nasal					lower I1				femur	1	1	
ethmoid					lower I2				tibia	1	1	
lacrimial					lower C				fibula			1
vomer					lower PM1				patella			
mandible					lower PM2				Ankle			
hyoid					lower M1				talus	1		
Vertebrae					lower M2				calcaneus			
cervical					lower M3				navicular			
c1					Upper Limb				medial cun.			
c2					clavicle				interm. cun.			
c3-7					scapula				lat.cuneiform			
thoracic					humerus	1			cuboid			
t1-t12					radius		1		Metatarsals			
lumbar					ulna	1	1		Phalanges			
l1-5					Wrist				proximal			
sacral					scaphoid				middle			
s1					lunate				distal			
s2-5					triquetrum							
coccyx					pisiform							
Sternum					trapezium							
Ribs					trapezoid							

Figure 3.52. Skeletal Summary 47E

RECOVERY 48E

Mortuary Attributes

Burial Orientation

The burial was oriented with the head to the southwest and the feet to the northeast.

Coffin Shape and Size

The remnants of the coffin were left in place, hindering an accurate determination of shape and size.

Hardware

No hardware was recovered.

Cultural Attributes

Clothing

No clothing-related artifacts were recovered.

Other Personal Artifacts

No other personal artifacts were recovered.

Other Inclusions or Offerings

No other inclusions or offerings were recovered.

Relevant Field Notes

The recovery was encountered during grading, but it was determined that 99% of it would not be affected by grading. All fragments of bone encountered were returned to the recovery by being placed in a small hole dug to just above the level of the recovery and the area was marked so as not to be disturbed.

Summary and Estimated Date of Burial

No artifacts were recovered that could accurately estimate the date of burial. The date of burial is estimated to be between the interment dates of the cemetery, 1879 to 1922.

Osteological Attributes

Small fragments of bone recovered were re-interred since it was not necessary to impact the location of this burial.

RECOVERY 49E

Mortuary Attributes

Burial Orientation

The burial was oriented with the head to the southwest and the feet to the northeast.

Coffin Shape and Size

No coffin was observed.

Hardware

No hardware was recovered.

Cultural Attributes

Clothing

No clothing-related artifacts were recovered.

Other Personal Artifacts

No other personal artifacts were recovered.

Other Inclusions or Offerings

No other inclusions or offerings were recovered.

Relevant Field Notes

The recovery was found beneath the entrance road to Los Angeles County Crematorium, several feet north of the 1st Street gate.

Summary and Estimated Date of Burial

No artifacts were recovered that could accurately estimate the date of burial. The date of burial is estimated to be between the interment dates of the cemetery, 1879 to 1922.

Osteological Attributes

Inventory and Preservation

The minimum number of individuals is two based on the presence of two left femora. Individual A is represented by lower limb bones (Figure 3.53). Individual B is represented only by a portion of the left femur. The bone is in fair condition, but friable.

Age

The age of Individual A was determined to be an adult based on the size and morphology of the long bones (>21 years).

Sex

Could not be determined due to missing elements.

Stature

Could not be determined due to missing elements.

Ancestry

Could not be determined due to missing elements.

Skeletal Pathology

No pathological conditions were observed on the recovered remains.

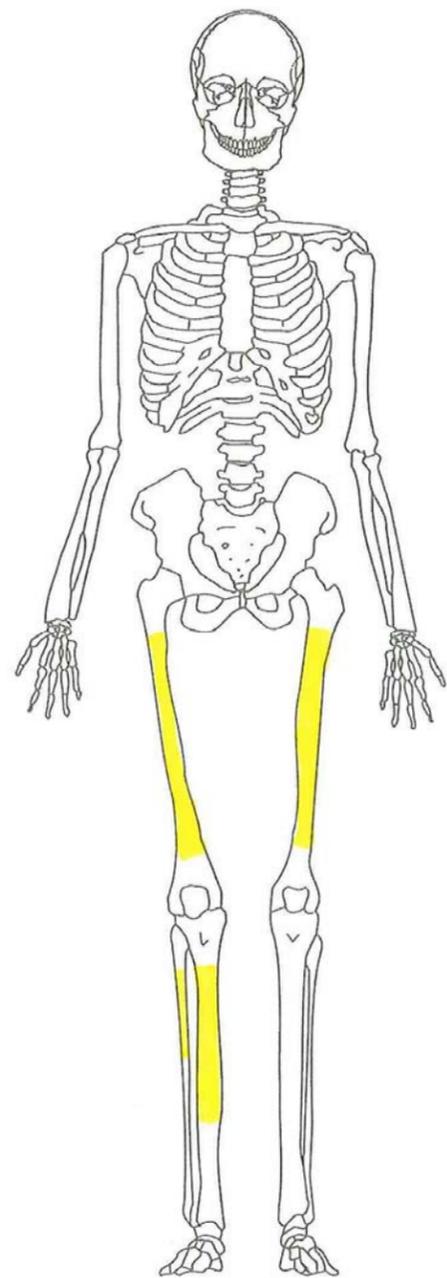
Dental Pathology

Could not be determined due to missing elements.

Osteological Summary for 49E

The minimum number of individuals is two based on two left femoral shafts. Individual A is represented by lower limb bones and determined to be an adult. Individual B is represented only by a portion of the left femur.

49Ea
 Sex: indeterminate
 Age: Adult
 Ancestry: indeterminate
 Height: indeterminate
 Skeletal Pathology: none observed
 Dental Pathology: indeterminate



49Ea Skeletal Elements Represented												
Element Name	Axial MNE	Left MNE	Right MNE	Indet. MNE	Element Name	Left MNE	Right MNE	Indet. MNE	Element Name	Left MNE	Right MNE	Indet. MNE
Skull					Teeth				capitate			
frontal					upper I1				hamate			
parietal					upper I2				Metacarpals			
occipital					upper C				Phalanges			
temporal					upper PM1				proximal			
sphenoid					upper PM2				middle			
zygomatic					upper M1				distal			
maxilla					upper M2				Lower Limb			
palatine					upper M3				os coxae			
nasal					lower I1				femur	2	1	
ethmoid					lower I2				tibia		1	
lacrimial					lower C				fibula			1
vomer					lower PM1				patella			
mandible					lower PM2				Ankle			
hyoid					lower M1				talus			
Vertebrae					lower M2				calcaneus			
cervical					lower M3				navicular			
c1					Upper Limb				medial cun.			
c2					clavicle				interm. cun.			
c3-7					scapula				lat.cuneiform			
thoracic					humerus				cuboid			
t1-t12					radius				Metatarsals			
lumbar					ulna				Phalanges			
l1-5					Wrist				proximal			
sacral					scaphoid				middle			
s1					lunate				distal			
s2-5					triquetrum							
coccyx					pisiform							
Sternum					trapezium							
Ribs					trapezoid							

Figure 3.53. Skeletal Summary 49Ea

RECOVERY 50E

Mortuary Attributes

Burial Orientation

The burial was oriented with the head to the southeast and the feet to the northwest.

Coffin Shape and Size

The remnants of the coffin and/or distinct outline of differently colored soil indicated that the coffin was hexagonal in shape. It was heavily impacted, hindering an accurate determination of size. The portion visible was 24 inches (60.96 cm) long, 18 inches (45.72 cm) at its maximum width and 10 inches (25.4 cm) at its minimum width.

Hardware

Six fragments of four short bar coffin handles, nine fragments of a coffin plaque reading REST IN PEACE, a two-piece Easter Lily metal decoration, a decorative coffin bracket, a decorative coffin screw, one escutcheon and multiple light aqua plate viewing glass fragments were recovered.

Cultural Attributes

Clothing

Two ceramic, four-hole, dish-style buttons and one ferrous, shank-style button were recovered.

Other Personal Artifacts

No other personal artifacts were recovered.

Other Inclusions or Offerings

Three unidentified, amorphous, ferrous fragments

Summary and Estimated Date of Burial

Viewing glass windows in coffins were generally used between the 1860s and the 1910s, while the interment dates of the cemetery were between 1879 and 1922. The estimated date of burial is between 1879 and 1920.

Osteological Attributes

Inventory and Preservation

This individual is represented by a complete skull, dentition and 40% of the post-cranial skeleton (Figure 3.54). The skull is intact and in excellent condition. The post-cranial skeleton consists of the upper limbs, vertebrae and ribs, which are in good condition.

Age

The age of the individual was determined to be a middle adult based on epiphyseal fusion and closure of the external cranial vault sutures (30-50 years).

Sex

The sex of the individual was determined to be male based on the nuchal crest, mastoid processes, supraorbital margins, glabella and mental eminence.

Stature

Could not be determined due to missing elements.

Ancestry

The ancestry of the individual was determined to be a mix between Asian and Euro-American based on cranial morphology.

Skeletal Pathology

Both clavicles exhibited abnormal bone loss resulting in a pit on the inferior surface of the sternal end possibly caused by a pulled muscle. The right humerus exhibited bone remodeling inferior to the bicipital groove, possibly caused by a pulled muscle and it appears to be healed. The left ulna exhibited a slight olecranon spur on the posterior-superior surface. The left parietal exhibited porotic hyperostosis at the parietal eminence.

Dental Pathology

Insignificant to minor wear was found on the molars and moderate to extensive wear was observed on the anterior teeth. Hypoplasias, carious lesions, pulp chamber exposure, abscesses and antemortem tooth loss were observed. Hypoplasias in the form of linear horizontal grooves were observed 4.53 mm from CEJ on the right maxillary canine and 3.49 mm from CEJ on the right maxillary second incisor. Hypoplasias in the form of non-linear array of pits were found 4.07 mm from CEJ on the left maxillary canine, 4.74 mm from CEJ on the left mandibular canine and 5.59 mm from CEJ on the right mandibular canine. A large carious lesion was present on the left maxillary third molar but the origin is unknown. Pulp chamber exposure occurred on the right maxillary third molar, right maxillary first molar, left maxillary first premolar and the left maxillary second premolar. These same teeth also exhibited abscesses of buccal perforation. There was antemortem loss of the left mandibular third molar and the right mandibular third molar.

Osteological Summary for 50E

This individual is represented by a complete skull with dentition and the superior half of the skeleton. The individual was determined to be a middle adult male of mixed ancestry and exhibited abnormal bone loss, bone remodeling, enthesiopathies, porotic hyperostosis, hypoplasias, caries lesions, pulp chamber exposures, abscesses, insignificant to extensive dental wear and antemortem tooth loss.

50E

Sex: Male

Age: Middle Adult

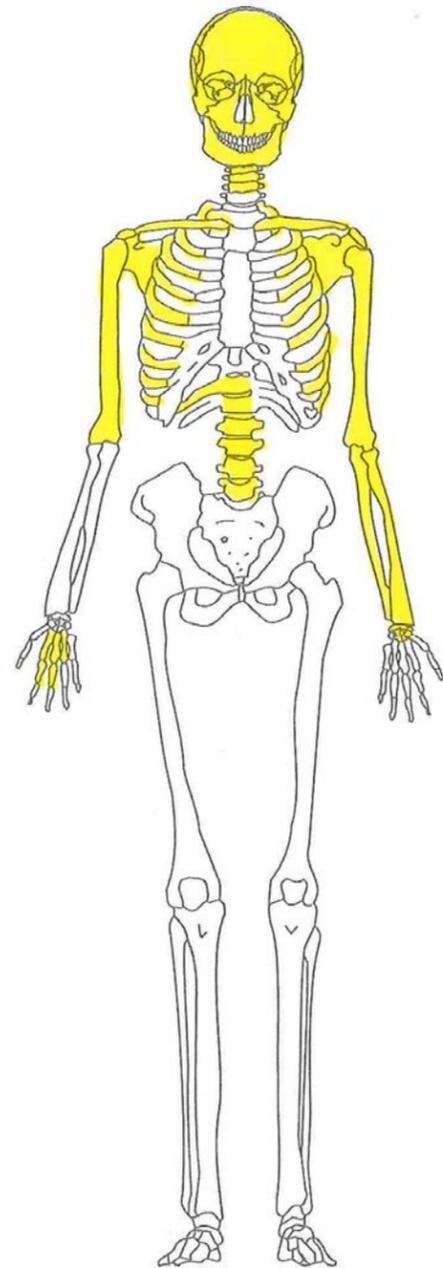
Ancestry: Mixed

Height: indeterminate

Skeletal Pathology: Abnormal Bone Loss, Bone Remodeling, Enthesiopathies, Porotic Hyperostosis

Dental Pathology: Hypoplasias, Caries lesions, Pulp Chamber Exposure,

Abscess, Antemortem Tooth Loss, Extensive Wear



50E Skeletal Elements Representation												
Element Name	Axial MNE	Left MNE	Right MNE	Indet. MNE	Element Name	Left MNE	Right MNE	Indet. MNE	Element Name	Left MNE	Right MNE	Indet. MNE
Skull					Teeth				capitate			
frontal	1				upper I1	1	1		hamate	1		
parietal		1	1		upper I2	1	1		Metacarpals		3	
occipital	1				upper C	1	1		Phalanges			
temporal		1	1		upper PM1	1	1		proximal		2	
sphenoid	1				upper PM2	1	1		middle			
zygomatic		1	1		upper M1	1	1		distal			
maxilla		1	1		upper M2	1	1		Lower Limb			
palatine		1	1		upper M3				os coxae			
nasal		1	1		lower I1	1	1		femur			
ethmoid	1				lower I2	1	1		tibia			
lacrimial		1	1		lower C	1	1		fibula			
vomer	1				lower PM1	1	1		patella			
mandible	1				lower PM2	1	1		Ankle			
hyoid	1				lower M1	1	1		talus			
Vertebrae					lower M2	1	1		calcaneus			
cervical					lower M3				navicular			
c1	1				Upper Limb				medial cun.			
c2	1				clavicle	1	1		interm. cun.			
c3-7	1				scapula	1	1		lat.cuneiform			
thoracic					humerus	1	1		cuboid			
t1-t12	8				radius	1			Metatarsals			
lumbar					ulna	1			Phalanges			
l1-5	4				Wrist				proximal			
sacral					scaphoid	1			middle			
s1					lunate	1			distal			
s2-5					triquetrum							
coccyx					pisiform							
Sternum					trapezium	1						
Ribs		9	10		trapezoid							

Figure 3.54. Skeletal Summary 50E

RECOVERY 51E

Mortuary Attributes

Burial Orientation

The burial was oriented with the head to the southeast and the feet to the northwest.

Coffin Shape and Size

The remnants of the coffin and/or distinct outline of differently colored soil indicated that the coffin was hexagonal in shape. It was left partially in place, hindering an accurate determination of size.

Hardware

Three fragments of two swing bail handles in two styles, one thumbscrew and escutcheon and two slotted coffin screws were recovered.

Cultural Attributes

Clothing

Six fragments of five non-ferrous, two-hole buttons were recovered.

Other Personal Artifacts

No other personal artifacts were recovered.

Other Inclusions or Offerings

No other inclusions or offerings were recovered.

Relevant Field Notes

The recovery was found in the nearest proximity to the headstone for T. E. Buzbee. Part of the skeleton was left in place as it was directly under, and enclosed by, roots of a palm tree more than 50' tall.

Summary and Estimated Date of Burial

Slotted coffin screws were used between the 1850s and the early 1900s, while the interment dates of the cemetery were between 1879 and 1922. The estimated date of burial is between 1879 and 1910.

Osteological Attributes

Inventory and Preservation

This individual is represented by a partial skull, dentition and 60% of the post-cranial skeleton (Figure 3.55). The skull consists mainly of the cranial vault in fair but fragmented condition. Bones from the upper and lower limbs are in fair condition, but fragmented.

Age

The age of the individual was determined to be an adolescent based on the recent fusion of the left femoral head (>19 years) and incomplete eruption of the left and right mandibular third molars (< 21 years).

Sex

The sex of the individual was determined to be male based on the nuchal crest, mastoid process, supraorbital margin, glabella and greater sciatic notches of the os coxae.

Stature

The height of the individual was calculated to be 5 feet 6.6 inches (169.07 cm) based on the right femur.

Ancestry

Could not be determined due to missing elements.

Skeletal Pathology

A thin striated porous layer of periosteal bone formation was observed on the lateral surfaces of the left and right femoral shaft, indicating the infection was active at the time of death.

Dental Pathology

No pathological conditions were observed on the recovered remains. There was minor dental wear on the anterior teeth and moderate wear on the molars.

Osteological Summary for 51E

This individual is represented by a skull and limb bones from the upper and lower limbs. The individual was determined to be an adolescent male with periosteal bone formation and minor to moderate dental wear. The height of the individual was 5 feet 6.6 inches (169.07 cm).

Special Note

One of only three English language headstones recovered during the excavations, T. E. Buzbee's stone indicates he died in 1883 at the age of 18. The skeletal remains (see above) are consistent with the information on the headstone. Thus young Mister Buzbee is the only person who can be accurately identified with the information currently available.

Cogstone was contacted by T. E. Buzbee's niece, Gaye Buzbee Jacobs, as a result of Metro's outreach efforts in relation to the headstones and burial bricks from the project. With her permission, we can add dimension to this burial. Most of the information comes from T.E.'s father as told to younger brother Donald Buzbee (a southern California resident). The T was for Thomas.

Thomas Buzbee and his brother Newton Buzbee ran away from home when Thomas was 17 after both got into trouble in their Colorado hometown. The family heard that they were arrested in San Francisco for stealing and crashing a cable car but that was the last any family member had heard. The family had no idea they ended up in Los Angeles until now. The family speculates that possibly they were abducted at the docks and came to Los Angeles by ship.

Since the main part of the family did not know of Thomas's death, they believe Newton must have paid for the headstone that marked Thomas's grave. Newton eventually became a dentist but never returned to Colorado and never told the family of Thomas's death. The family does not have any pictures of Thomas. When we asked if anyone knew his height, we were told that the family is Cornish and that no male in the family is over 5'8".

The family requested a Death Certificate for Thomas which shows his name, age, date, place of birth and that he was white, male and single. Cause of death was listed as "Cerebral Meningitis". Meningitis is an infection of the coverings of the brain and spinal cord which can have many causes. We speculate that Thomas died of bacterial or septicemia meningitis (today's terms). These forms have widespread effects on the body and might account for the infection indicators on his thigh bones.

51E

Sex: Male

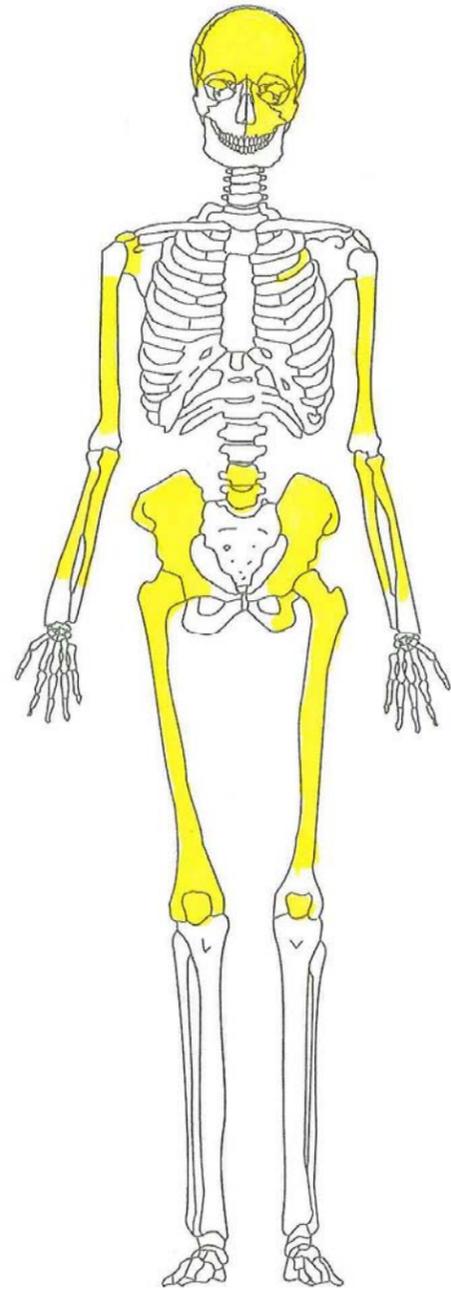
Age: Adolescent

Ancestry: indeterminate

Height: 5' 6.6" (169.07 cm)

Skeletal Pathology: Periosteal Bone Formation

Dental Pathology: none observed



51E Skeletal Elements Represented												
Element Name	Axial MNE	Left MNE	Right MNE	Indet. MNE	Element Name	Left MNE	Right MNE	Indet. MNE	Element Name	Left MNE	Right MNE	Indet. MNE
Skull					Teeth				capitate			
frontal	1				upper I1				hamate			
parietal		1	1		upper I2	1			Metacarpals			
occipital	1				upper C	1	1		Phalanges			
temporal		1	1		upper PM1	1	1		proximal			
sphenoid	1				upper PM2		1		middle			
zygomatic		1			upper M1		1		distal			
maxilla		1			upper M2		1		Lower Limb			
palatine					upper M3				os coxae	1	1	
nasal					lower I1				femur	1	1	
ethmoid					lower I2				tibia			
lacrimial					lower C				fibula			
vomer					lower PM1				patella	1	1	
mandible					lower PM2	1			Ankle			
hyoid					lower M1	1	1		talus			
Vertebrae					lower M2	1	1		calcaneus			
cervical					lower M3	1	1		navicular			
c1					Upper Limb				medial cun.			
c2					clavicle				interm. cun.			
c3-7					scapula		1		lat.cuneiform			
thoracic					humerus	1	1		cuboid			
t1-t12					radius	1	1		Metatarsals			
lumbar					ulna	1	1		Phalanges			
l1-5	2				Wrist				proximal			
sacral					scaphoid				middle			
s1					lunate				distal			
s2-5					triquetrum							
coccyx					pisiform							
Sternum					trapezium							
Ribs				1	trapezoid							

Figure 3.55. Skeletal Summary 51E

RECOVERY 52E

Mortuary Attributes

Burial Orientation

The burial was oriented with the head to the southeast and the feet to the northwest.

Coffin Shape and Size

The remnants of the coffin were left in place, hindering an accurate determination of shape and size.

Hardware

Three fragments of two swing bail handles, one escutcheon and one decoration representing a hand clasping a rose stem were recovered.

Cultural Attributes

Clothing

No clothing-related artifacts were recovered.

Other Personal Artifacts

No other personal artifacts were recovered.

Other Inclusions or Offerings

No other inclusions or offerings were recovered.

Relevant Field Notes

The recovery was found in a vertical face along the excavation margin. The decision was made to recover the fragments that were removed by grading activities and to leave in place the portion that was not.

Summary and Estimated Date of Burial

Swing bail handles were used between the 1850s and the 1910s, while the interment dates of the cemetery were between 1879 and 1922. The estimated date of burial is between 1879 and 1920.

Osteological Attributes

Inventory and Preservation

This individual is represented by femora in fair, but fragmented condition (Figure 3.56).

Age

The age of this individual was determined to be an adult based on the size and morphology of the femoral shafts (>19 years).

Sex

Could not be determined due to missing elements.

Stature

Could not be determined due to missing elements.

Ancestry

Could not be determined due to missing elements.

Skeletal Pathology

The femora exhibited periosteal bone formation surrounding the shafts due to infection. Around 75% of the outer cortex of the shafts was affected.

Dental Pathology

Could not be determined due to missing elements.

Osteological Summary for 52E

This individual is represented by femora and was determined to be an adult with abnormal periosteal bone formation.

52E

Sex: indeterminate

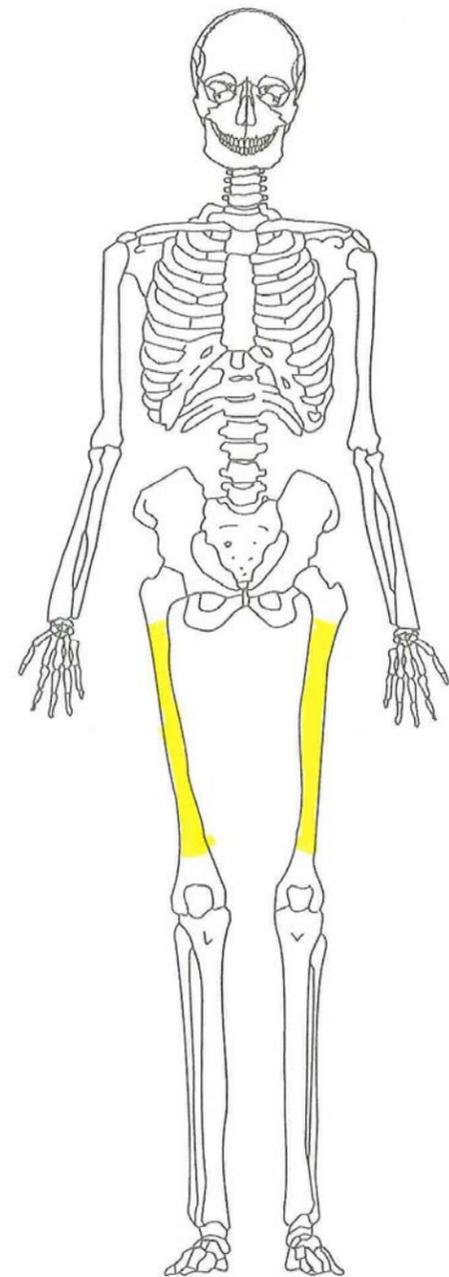
Age: Adult

Ancestry: indeterminate

Height: indeterminate

Skeletal Pathology: Abnormal Periosteal Bone Formation

Dental Pathology: indeterminate



52E Skeletal Elements Represented												
Element Name	Axial MNE	Left MNE	Right MNE	Indet. MNE	Element Name	Left MNE	Right MNE	Indet. MNE	Element Name	Left MNE	Right MNE	Indet. MNE
Skull					Teeth				capitate			
frontal					upper I1				hamate			
parietal					upper I2				Metacarpals			
occipital					upper C				Phalanges			
temporal					upper PM1				proximal			
sphenoid					upper PM2				middle			
zygomatic					upper M1				distal			
maxilla					upper M2				Lower Limb			
palatine					upper M3				os coxae			
nasal					lower I1				femur	1	1	
ethmoid					lower I2				tibia			
lacrimial					lower C				fibula			
vomer					lower PM1				patella			
mandible					lower PM2				Ankle			
hyoid					lower M1				talus			
Vertebrae					lower M2				calcaneus			
cervical					lower M3				navicular			
c1					Upper Limb				medial cun.			
c2					clavicle				interm. cun.			
c3-7					scapula				lat.cuneiform			
thoracic					humerus				cuboid			
t1-t12					radius				Metatarsals			
lumbar					ulna				Phalanges			
l1-5					Wrist				proximal			
sacral					scaphoid				middle			
s1					lunate				distal			
s2-5					triquetrum							
coccyx					pisiform							
Sternum					trapezium							
Ribs					trapezoid							

Figure 3.56. Skeletal Summary 52E

RECOVERY 53E

Mortuary Attributes

Burial Orientation

The burial was oriented with the head to the southeast and the feet to the northwest.

Coffin Shape and Size

The remnants of the coffin were left in place hindering an accurate determination of shape and size.

Hardware

One swing bail handle and three fragments of one coffin decoration in the form of a hand clasping a rose were recovered.

Cultural Attributes

Clothing

Two ceramic buttons were recovered, one four-hole dish-style and one whistle-style.

Other Personal Artifacts

No other personal artifacts were recovered.

Other Inclusions or Offerings

No other inclusions or offerings.

Relevant Field Notes

The recovery was found in a vertical face along the excavation margin. The decision was made to recover the fragments that were removed by grading activities and to leave in place the portion that was not.

Summary and Estimated Date of Burial

Prosser process buttons were manufactured between 1849 and 1910, while the coffin decoration dates to post-1881. The estimated date of burial is between 1881 and 1910.

Osteological Attributes

No bone was impacted by grading or collected. The burial was left in place.

RECOVERY 54E

Mortuary Attributes

Burial Orientation

The burial was oriented with the head to the northwest and the feet to the southeast.

Coffin Shape and Size

The remnants of the coffin and/or distinct outline of differently colored soil indicated that the coffin was hexagonal in shape. It was 72 inches (182.88 cm) long, 18 inches (45.72 cm) at its maximum width and 8 inches (20.32 cm) at its minimum width.

Hardware

Seven fragments of five swing bail handles, one two-piece coffin plaque reading REST IN PEACE, six fragments of four escutcheons and one caplifter were recovered.

Cultural Attributes

Clothing

No clothing-related artifacts were recovered.

Other Personal Artifacts

No other personal artifacts were recovered.

Other Inclusions or Offerings

One sun-colored amethyst glass bottle fragment

Summary and Estimated Date of Burial

Sun-colored amethyst glass dates to between the 1880s and the 1910s. The estimated date of this burial is between 1880 and 1920.

Osteological Attributes

Inventory and Preservation

This individual is represented by a proximal left femoral shaft in fair condition (Figure 3.57).

Age

Could not be determined due to missing elements.

Sex

Could not be determined due to missing elements.

Stature

Could not be determined due to missing elements.

Ancestry

Could not be determined due to missing elements.

Skeletal Pathology

No pathological conditions were observed on the recovered remains.

Dental Pathology

Could not be determined due to missing elements.

Osteological Summary for 54E

This individual was represented by a femur and the biological profile could not be determined due to missing elements.

54E

Sex: indeterminate

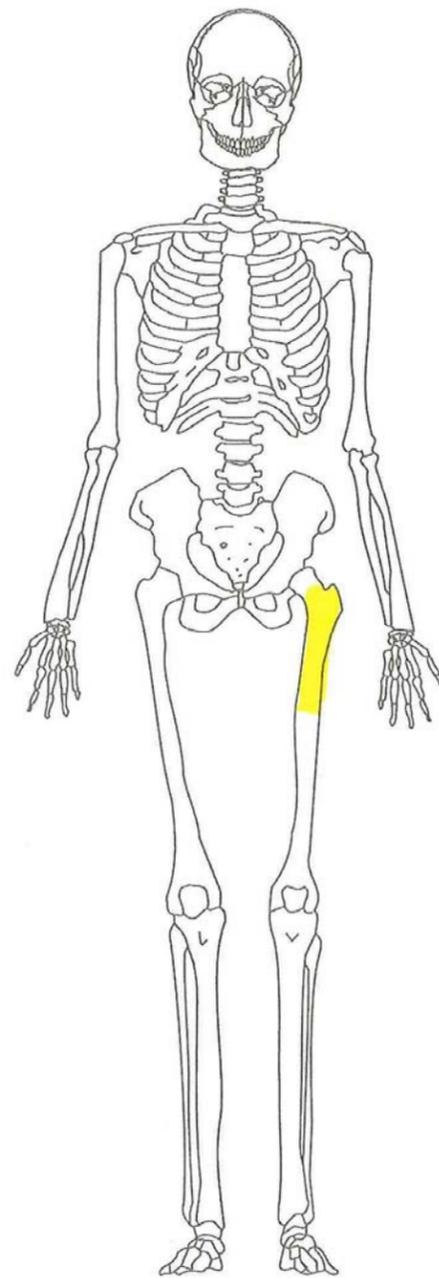
Age: indeterminate

Ancestry: indeterminate

Height: indeterminate

Skeletal Pathology: none observed

Dental Pathology: indeterminate



54E Skeletal Elements Represented												
Element	Axial	Left	Right	Indet.	Element	Left	Right	Indet.	Element	Left	Right	Indet.
Name	MNE	MNE	MNE	MNE	Name	MNE	MNE	MNE	Name	MNE	MNE	MNE
Skull					Teeth				capitate			
frontal					upper I1				hamate			
parietal					upper I2				Metacarpals			
occipital					upper C				Phalanges			
temporal					upper PM1				proximal			
sphenoid					upper PM2				middle			
zygomatic					upper M1				distal			
maxilla					upper M2				Lower Limb			
palatine					upper M3				os coxae			
nasal					lower I1				femur	1		
ethmoid					lower I2				tibia			
lacrimial					lower C				fibula			
vomer					lower PM1				patella			
mandible					lower PM2				Ankle			
hyoid					lower M1				talus			
Vertebrae					lower M2				calcaneus			
cervical					lower M3				navicular			
c1					Upper Limb				medial cun.			
c2					clavicle				interm. cun.			
c3-7					scapula				lat.cuneiform			
thoracic					humerus				cuboid			
t1-t12					radius				Metatarsals			
lumbar					ulna				Phalanges			
l1-5					Wrist				proximal			
sacral					scaphoid				middle			
s1					lunate				distal			
s2-5					triquetrum							
coccyx					pisiform							
Sternum					trapezium							
Ribs					trapezoid							

Figure 3.57. Skeletal Summary 54E

RECOVERY 55E

Mortuary Attributes

Burial Orientation

The burial was oriented with the head to the southeast and the feet to the northwest.

Coffin Shape and Size

The remnants of the coffin and/or distinct outline of differently colored soil indicated that the coffin was hexagonal in shape. The burial was heavily impacted, hindering an accurate determination of size.

Hardware

Seven fragments of four swing bail handles were recovered. Six non-diagnostic nail fragments were discarded.

Cultural Attributes

Clothing

No clothing-related artifacts were recovered.

Other Personal Artifacts

No other personal artifacts were recovered.

Other Inclusions or Offerings

No other inclusions or offerings were recovered.

Summary and Estimated Date of Burial

Swing bail coffin handles were used between the 1850s and the 1910s, while the interment dates of the cemetery were between 1879 and 1922. The estimated date of burial is between 1879 and 1920.

Osteological Attributes

Inventory and Preservation

This individual is mainly represented by cranial fragments, dentition and the lower limbs (Figure 3.58). The bone is in fair condition, but fragmented and friable.

Age

The age of the individual was determined to be an adult based on the complete eruption of the left maxillary third molar (>21 years).

Sex

Could not be determined due to missing elements.

Stature

Could not be determined due to missing elements.

Ancestry

Could not be determined due to missing elements.

Skeletal Pathology

No pathological conditions were observed on the recovered remains.

Dental Pathology

Minor wear was observed on the teeth recovered. A carious lesion was found on the distal interproximal surface of the left maxillary premolar. Linear horizontal hypoplastic grooves were found 7.18 mm and 2.05 mm from the CEJ on the left maxillary first incisor, 5.46 mm and 2.84 mm from the CEJ on the right maxillary second incisor, 5.05 mm and 1.29 mm from the CEJ on the left maxillary canine, 6.17 mm and 4.75 mm from the CEJ on the right maxillary canine, 5.57 mm from the CEJ on the left maxillary first premolar and 5.30 mm from the CEJ on the right maxillary first premolar.

Osteological Summary for 55E

This individual was mainly represented by dentition and the lower limbs and determined to be an adult with minor dental wear, hypoplasias and a carious lesion.

55E

Sex: indeterminate

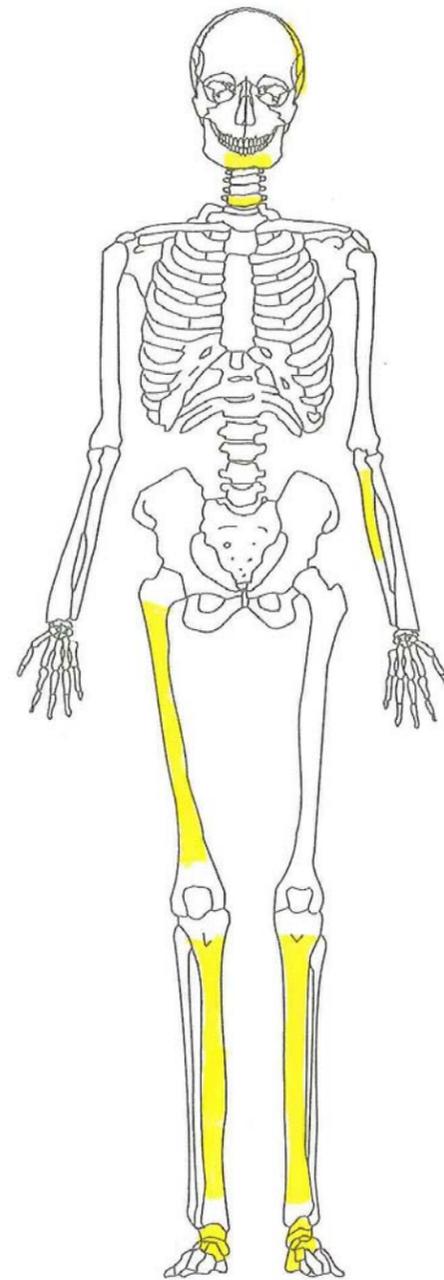
Age: Adult

Ancestry: indeterminate

Height: indeterminate

Skeletal Pathology: none observed

Dental Pathology: Carious Lesions, Hypoplasias



55E Skeletal Elements Represented												
Element Name	Axial MNE	Left MNE	Right MNE	Indet. MNE	Element Name	Left MNE	Right MNE	Indet. MNE	Element Name	Left MNE	Right MNE	Indet. MNE
Skull					Teeth				capitate			
frontal					upper I1	1			hamate			
parietal				1	upper I2		1		Metacarpals			
occipital	1				upper C	1	1		Phalanges			
temporal		1			upper PM1	1	1		proximal			
sphenoid					upper PM2	1	1		middle			
zygomatic					upper M1		1		distal			
maxilla					upper M2	1	1		Lower Limb			
palatine					upper M3	1			os coxae			
nasal					lower I1				femur		1	
ethmoid					lower I2				tibia	1	1	
lacrimial					lower C				fibula			
vomer					lower PM1				patella			
mandible	1				lower PM2	1			Ankle			
hyoid					lower M1	1			talus	1	1	
Vertebrae					lower M2				calcaneus	1		
cervical					lower M3				navicular			
c1					Upper Limb				medial cun.			
c2					clavicle				interm. cun.	1		
c3-7	1				scapula				lat.cuneiform		1	
thoracic					humerus				cuboid			
t1-t12					radius				Metatarsals			
lumbar					ulna	1			Phalanges			
l1-5					Wrist				proximal			
sacral					scaphoid				middle			
s1					lunate				distal			
s2-5					triquetrum							
coccyx					pisiform							
Sternum					trapezium							
Ribs					trapezoid							

Figure 3.58. Skeletal Summary 55E

RECOVERY 56E

Mortuary Attributes

Burial Orientation

The burial was oriented with the head to the northwest and the feet to the southeast.

Coffin Shape and Size

The remnants of the coffin and/or distinct outline of differently colored soil indicated that the coffin was hexagonal in shape. It was 74 inches (187.96 cm) long, 18 inches (45.72 cm) at its maximum width and 8 inches (20.32 cm) at its minimum width.

Hardware

Eight non-diagnostic nail fragments were discarded.

Cultural Attributes

Clothing

Seven ceramic, four-hole buttons, six dish-style and one pie crust-style, one black ceramic, four-hole, dish-style button, one non-ferrous button fragment on a piece of brown, woven fabric, nine fragments of eight ferrous, four-hole buttons, one non-ferrous suspender clasp with a brown, woven fabric garment fragment attached and five brown, woven fabric garment fragments were recovered.

Other Personal Artifacts

No other personal artifacts were recovered.

Other Inclusions or Offerings

No other inclusions or offerings were recovered.

Relevant Field Notes

The recovery was buried shallowly in relation to the recoveries around it. It was located next to the Evergreen Cemetery fence and work on this recovery had to be halted several times due to on-lookers. Collection began on 10/26/05 and ended on 11/4/05.

Summary and Estimated Date of Burial

Prosser process buttons were manufactured between 1849 and 1910, while the interment dates of the cemetery were between 1879 and 1922. The estimated date of burial is between 1879 and 1910.

Osteological Attributes

Inventory and Preservation

This individual is represented by a complete skull, dentition and 70% of the post-cranial skeleton (Figure 3.59). The skull is in good condition, but friable. The post-cranial skeleton is in fair condition and fragmented.

Age

The age of the individual was determined to be an adult based on the complete eruption of the left and right mandibular third molars (>21 years).

Sex

The sex of the individual was determined to be male based on the mastoid processes, supraorbital margins, glabella, mental eminence, overall cranial and mandibular morphology, the greater sciatic notches of the os coxae and the vertical diameter of the left femoral (46.52 mm).

Stature

Could not be determined due to missing elements.

Ancestry

The ancestry of the individual was determined to be Asian based on the shovel shaped incisors and cranial morphology.

Skeletal Pathology

No pathological conditions were observed on the recovered remains.

Dental Pathology

The right maxillary first molar was lost antemortem. Moderate dental wear was observed on the anterior teeth and moderate to extensive wear was found on the molars. A carious lesion completely destroyed the crown of the left maxillary second incisor. Linear horizontal hypoplastic grooves were found 5.87 mm, 3.36 mm and 1.66 mm from the CEJ on the left maxillary first incisor; 5.80 mm, 2.98 mm and 1.66 mm from the CEJ on the right maxillary first incisor; 3.28 mm from the CEJ on the left maxillary second incisor; 2.92 mm from the CEJ on the right maxillary second incisor; 3.28 mm from the CEJ on the left maxillary canine; 3.81 mm from the CEJ on the right maxillary canine; 4.26 mm and 2.05 mm from the CEJ on the right maxillary first premolar; 2.73 mm from the CEJ on the right maxillary second premolar; 3.38 mm from the CEJ on the left mandibular first incisor; 3.80 mm and 1.86 mm from the CEJ on the right mandibular first incisor; 2.17 mm from the CEJ on the left mandibular second incisor; 2.37 mm from the CEJ on the right mandibular second incisor; 3.87 mm and 2.60 mm from the CEJ on the left mandibular canine; 6.28 mm, 4.36 mm and 2.97 mm from the CEJ on the right mandibular canine; 3.01 mm and 1.44 mm from the CEJ on the left mandibular first premolar; and 3.26 mm from the CEJ on the right mandibular first premolar. Single hypoplastic pits were also found on the left and right mandibular first premolars.

Osteological Summary for 56E

This individual was represented by complete skull with teeth and the post-cranial skeleton. The individual was determined to be an adult male of Asian ancestry with antemortem tooth loss, moderate to extensive dental wear, a carious lesion and hypoplasias.

56E

Sex: Male

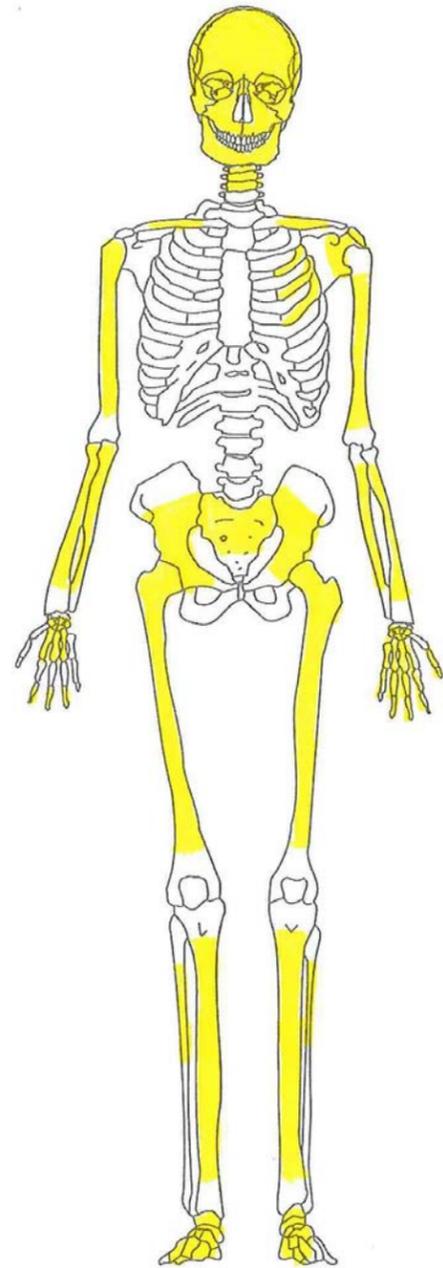
Age: Adult

Ancestry: Asian

Height: indeterminate

Skeletal Pathology: none observed

Dental Pathology: Antemortem Tooth Loss, Carious Lesion, Extensive Wear, Hypoplasias



56E Skeletal Elements Represented												
Element Name	Axial MNE	Left MNE	Right MNE	Indet. MNE	Element Name	Left MNE	Right MNE	Indet. MNE	Element Name	Left MNE	Right MNE	Indet. MNE
Skull					Teeth				capitate			1
frontal	1				upper I1	1	1		hamate			1
parietal		1	1		upper I2	1	1		Metacarpals	4	3	
occipital	1				upper C	1	1		Phalanges			
temporal		1	1		upper PM1	1	1		proximal			4
sphenoid	1				upper PM2	1	1		middle			6
zygomatic		1	1		upper M1	1			distal			1
maxilla		1	1		upper M2	1	1		Lower Limb			
palatine		1	1		upper M3				os coxae	1	1	
nasal		1	1		lower I1	1	1		femur	1	1	
ethmoid	1				lower I2	1	1		tibia	1	1	
lacrimial		1	1		lower C	1	1		fibula	1	1	
vomer	1				lower PM1	1	1		patella			
mandible	1				lower PM2	1	1		Ankle			
hyoid					lower M1	1	1		talus	1	1	
Vertebrae	3				lower M2	1	1		calcaneus	1	1	
cervical	2				lower M3	1	1		navicular			
c1					Upper Limb				medial cun.			
c2	1				clavicle	1	1		interm. cun.	1	1	
c3-7					scapula			1	lat.cuneiform			
thoracic					humerus	1	1		cuboid	1	1	
t1-t12					radius	1	1		Metatarsals	4	2	
lumbar					ulna	1	1		Phalanges			
l1-5					Wrist				proximal			
sacral					scaphoid	1			middle			
s1	1				lunate	1	1		distal			
s2-5	2				triquetrum							
coccyx					pisiform							
Sternum					trapezium							
Ribs				3	trapezoid		1					

Figure 3.59. Skeletal Summary 56E

RECOVERY 57E

Mortuary Attributes

Burial Orientation

The burial was oriented with the head to the northwest and the feet to the southeast.

Coffin Shape and Size

The remnants of the coffin and/or distinct outline of differently colored soil indicated that the coffin was hexagonal in shape. It was 66 inches (167.64 cm) long, 16 inches (40.64 cm) at its maximum width and 9 inches (22.86 cm) at its minimum width.

Hardware

Three fragments of two swing bail handles and one stamped tin coffin stud were recovered.

Cultural Attributes

Clothing

Five ceramic, four-hole, dish-style buttons were found lying vertically down the chest area, as in a shirt. One vulcanized rubber button manufactured by the Novelty Rubber Company was recovered near the head of the left femur. Six ferrous buttons were found scattered throughout the coffin.

Other Personal Artifacts

No other personal artifacts were recovered.

Other Inclusions or Offerings

Three fragments of one unidentified, non-ferrous item

Summary and Estimated Date of Burial

The Novelty Rubber Company operated between 1855 and 1886, while the interment dates of the cemetery were between 1879 and 1922. The estimated date of burial is between 1879 and 1886.

Osteological Attributes

Inventory and Preservation

This individual is mainly represented by dentition and bones from the upper and lower limbs (Figure 3.60). The bone is in fair, but fragmented condition.

Age

The age of the individual was determined to be an adolescent based on dental development (>16 years) and the incomplete fusion of the left femoral head (<21 years).

Sex

Could not be determined due to missing elements.

Stature

Could not be determined due to missing elements.

Ancestry

Could not be determined due to missing elements.

Skeletal Pathology

No pathological conditions were observed on the recovered remains.

Dental Pathology

Minor dental wear was observed on the teeth recovered. Carious lesions were found on the occlusal surfaces of the left and right maxillary first molars, the mesial interproximal surface on the left mandibular second premolar and the occlusal surfaces of the left and right mandibular first molars.

Osteological Summary for 57E

This individual was represented by dentition and the upper and lower limbs and determined to be an adolescent with carious lesions and minor dental wear.

57E

Sex: indeterminate

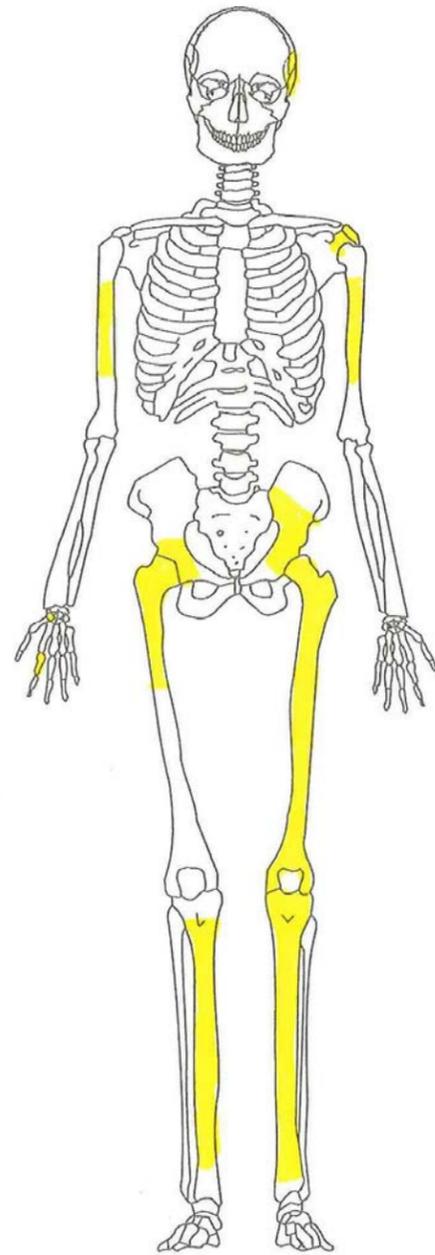
Age: Adolescent

Ancestry: indeterminate

Height: indeterminate

Skeletal Pathology: none observed

Dental Pathology: Carious Lesions



57E Skeletal Elements Represented												
Element Name	Axial MNE	Left MNE	Right MNE	Indet. MNE	Element Name	Left MNE	Right MNE	Indet. MNE	Element Name	Left MNE	Right MNE	Indet. MNE
Skull					Teeth				capitate	1		
frontal					upper I1	1	1		hamate			
parietal					upper I2	1			Metacarpals			
occipital	1				upper C	1	1		Phalanges			
temporal		1			upper PM1	1	1		proximal			1
sphenoid					upper PM2	1			middle			
zygomatic					upper M1	1	1		distal			
maxilla					upper M2				Lower Limb			
palatine					upper M3	1			os coxae	1	1	
nasal					lower I1	1	1		femur	1	1	
ethmoid					lower I2	1	1		tibia	1	1	
lacrimial					lower C	1	1		fibula			
vomer					lower PM1	1	1		patella			
mandible					lower PM2	1			Ankle			
hyoid					lower M1	1	1		talus			
Vertebrae					lower M2	1			calcaneus			
cervical					lower M3		1		navicular			
c1					Upper Limb				medial cun.			
c2					clavicle				interm. cun.			
c3-7					scapula	1			lat.cuneiform			
thoracic					humerus	1	1		cuboid			
t1-t12					radius				Metatarsals			
lumbar					ulna				Phalanges			
l1-5					Wrist				proximal			
sacral					scaphoid				middle			
s1					lunate				distal			
s2-5					triquetrum							
coccyx					pisiform							
Sternum					trapezium							
Ribs					trapezoid							

Figure 3.60. Skeletal Summary 57E

RECOVERY 58E

Mortuary Attributes

Burial Orientation

The burial was oriented with the head to the southeast and the feet to the northwest.

Coffin Shape and Size

The remnants of the coffin and/or distinct outline of differently colored soil indicated that the coffin was hexagonal in shape. It was 72 inches (182.88 cm) long, 18 inches (45.72 cm) at its maximum width and 8 inches (20.32 cm) at its minimum width.

Hardware

Fifteen fragments of five swing bail handles and three decorative coffin studs were recovered. Ten non-diagnostic nail fragments were discarded.

Cultural Attributes

Clothing

Five ceramic, four-hole, dish-style buttons were recovered.

Other Personal Artifacts

One vulcanized rubber comb was recovered.

Other Inclusions or Offerings

No other inclusions or offerings were recovered.

Summary and Estimated Date of Burial

Prosser process buttons were manufactured between 1849 and 1910, while the interment dates of the cemetery were between 1879 and 1922. The estimated date of burial is between 1879 and 1910.

Osteological Attributes

Inventory and Preservation

The minimum number of individuals for this recovery was two based on the presences of two left maxillary first incisors. Individual A is represented by cranial fragments, dentition and 20% of the post-cranial skeleton (Figure 3.61). Individual B is represented by a left maxillary first incisor only. The bone is in poor fragmented condition.

Age

The age of Individual A was determined to be an adolescent based on the epiphyseal fusion of long bones (15-19 years).

Sex

Could not be determined due to missing elements.

Stature

Could not be determined due to missing elements.

Ancestry

Could not be determined due to missing elements.

Skeletal Pathology

Abnormal periosteal bone formation was observed on the right humerus, right radius and femora of Individual A. The periosteal bone formation of the upper limb bones was located on the outer cortex of the midshafts. The periosteal bone formation on the femora was located along the linea aspera and appeared to have resorption and macroporosity, indicating the infection was active at the time of death.

Dental Pathology

Insignificant wear was observed on the teeth recovered. No dental pathological conditions were observed on the recovered remains.

Osteological Summary for 58E

The minimum number of individuals is two based on two left maxillary first incisors. Individual A is represented by dentition and cranial and long bone fragments and determined to be an adolescent with periosteal bone formation on the long bones and insignificant dental wear. Individual B is represented by a left maxillary first incisor only.

58E

Sex: indeterminate

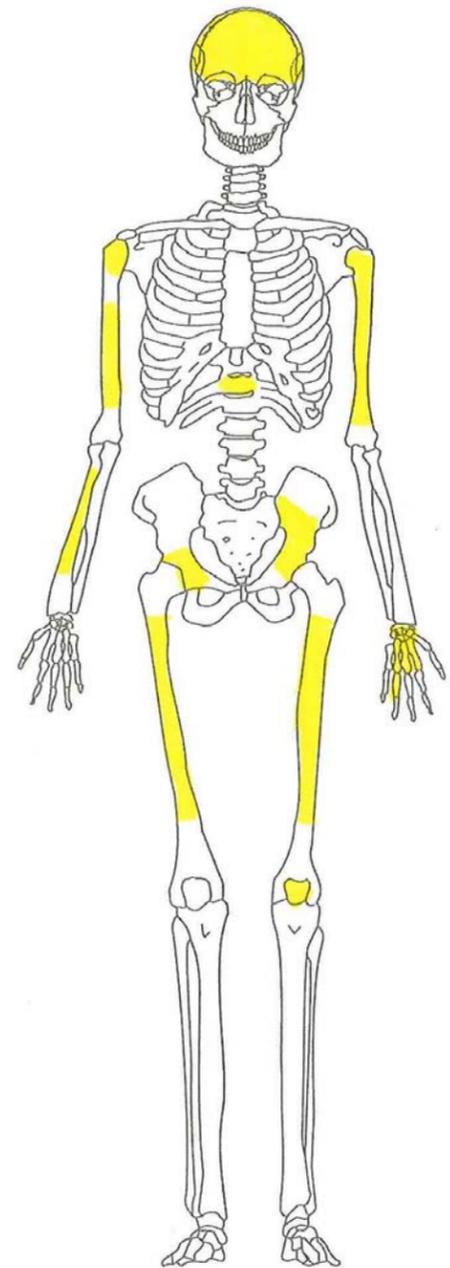
Age: Adolescent

Ancestry: indeterminate

Height: indeterminate

Skeletal Pathology: Periosteal Bone Formation

Dental Pathology: none observed



58Ea Skeletal Elements Represented												
Element Name	Axial MNE	Left MNE	Right MNE	Indet. MNE	Element Name	Left MNE	Right MNE	Indet. MNE	Element Name	Left MNE	Right MNE	Indet. MNE
Skull					Teeth				capitate			
frontal	1				upper I1	2	1		hamate			
parietal		1	1		upper I2		1		Metacarpals	3		
occipital	1				upper C	1	1		Phalanges	1		
temporal					upper PM1	1			proximal			
sphenoid					upper PM2	1			middle			
zygomatic					upper M1	1	1		distal			
maxilla					upper M2	1	1		Lower Limb			
palatine					upper M3	1	1		os coxae	1	1	
nasal					lower I1	1	1		femur	1	1	
ethmoid					lower I2	1	1		tibia			
lacrimial					lower C	1	1		fibula			
vomer					lower PM1	1	1		patella	1		
mandible					lower PM2	1	1		Ankle			
hyoid					lower M1	1	1		talus			
Vertebrae					lower M2	1	1		calcaneus			
cervical					lower M3		1		navicular			
c1					Upper Limb				medial cun.			
c2					clavicle				interm. cun.			
c3-7					scapula				lat.cuneiform			
thoracic					humerus	1	1		cuboid			
t1-t12	1				radius		1		Metatarsals			
lumbar					ulna				Phalanges			
l1-5					Wrist				proximal			
sacral					scaphoid	1			middle			
s1					lunate				distal			
s2-5					triquetrum							
coccyx					pisiform							
Sternum					trapezium							
Ribs					trapezoid							

Figure 3.61. Skeletal Summary 58Ea

RECOVERY 59E

Mortuary Attributes

Burial Orientation

The burial was oriented with the head to the southeast and the feet to the northwest.

Coffin Shape and Size

The remnants of the coffin and/or distinct outline of differently colored soil indicated that the coffin was hexagonal in shape. It was 60 inches (152.4 cm) long, 17 inches (43.18 cm) at its maximum width and 8 inches (20.32 cm) at its minimum width.

Hardware

Fourteen fragments of six short bar handles and four stamped tin coffin studs were recovered.

Cultural Attributes

Clothing

Three fragments of three composition buttons, two ceramic, four-hole, dish-style buttons, two fragments of two ferrous, four-hole button and six fragments of four fabric-covered, ferrous buttons with non-ferrous rivets were recovered.

Other Personal Artifacts

One ferrous pocket knife and four fragments of a foldable comb manufactured by the Rubber Comb and J. Company were recovered from the right hip, twenty-one fragments of a non-ferrous coin purse frame were recovered from the left hip area and gold fillings were found in the carious lesions.

Other Inclusions or Offerings

One 1880 Liberty Head ten dollar, one 1881 Morgan silver dollar, ten Seated Liberty half dollars minted in 1862, 1889, 1876, 1872, 1868, 1854, 1860, 1876, 1871, 1864, two Seated Liberty dimes, minted in 1853 and 1871 and one early or foreign coin were recovered from the left hip area.

Summary and Estimated Date of Burial

The individual had to have been buried after the latest mint date of the coins, 1889. Prosser process buttons were manufactured between 1849 and 1910. The estimated date of burial is between 1889 and 1910.

Osteological Attributes

Inventory and Preservation

This individual is represented by cranial fragments, dentition and lower limb bones (Figure 3.62). The bone is in poor condition and fragmented.

Age

The age of the individual was determined to be a young adult based on the recent fusion of the femoral head (~23 years).

Sex

The sex of the individual was determined to be male based on the mastoid process and nuchal crest.

Stature

Could not be determined due to missing elements.

Ancestry

Could not be determined due to missing elements.

Skeletal Pathology

No pathological conditions were observed on the recovered remains.

Dental Pathology

Minor to moderate dental wear was found on the teeth recovered. Carious lesions with gold fillings were observed on the mesial and distal interproximal surfaces of the left maxillary first incisor, the mesial interproximal surface of the right maxillary first incisor and the mesial interproximal surface of the left maxillary second incisor. Carious lesions without fillings were observed on the buccal, occlusal and mesial interproximal surfaces of the left maxillary canine; the mesial and distal interproximal surfaces of the right maxillary second premolar; and the occlusal and mesial interproximal surfaces of the right maxillary second molar.

Osteological Summary for 59E

This individual is represented by cranial fragments, dentition and lower limb bones and determined to be a young adult male with minor to moderate dental wear and carious lesions with and without gold fillings.

59E

Sex: Male

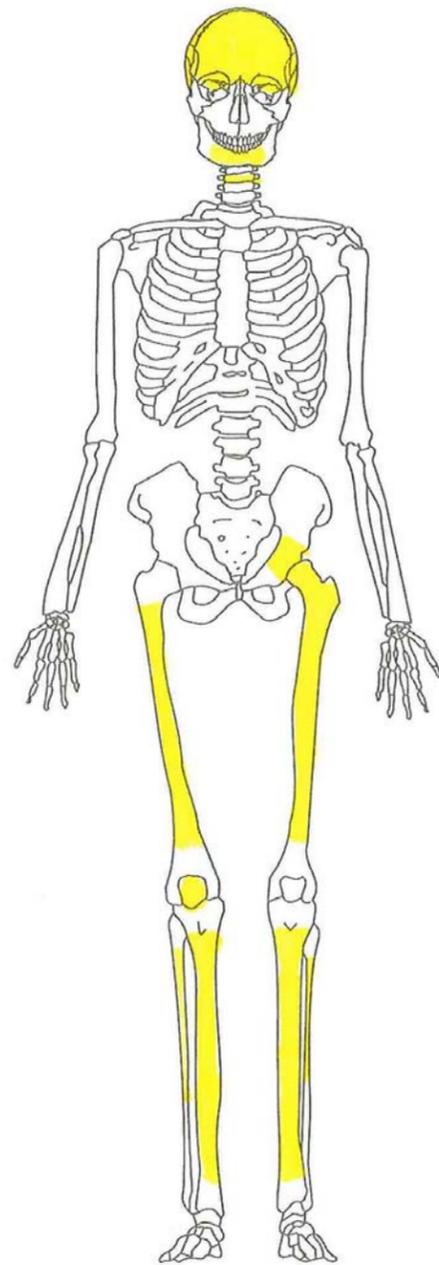
Age: Young Adult

Ancestry: indeterminate

Height: indeterminate

Skeletal Pathology: none observed

Dental Pathology: Carious Lesions with Gold Fillings



59E Skeletal Elements Represented												
Element Name	Axial MNE	Left MNE	Right MNE	Indet. MNE	Element Name	Left MNE	Right MNE	Indet. MNE	Element Name	Left MNE	Right MNE	Indet. MNE
Skull					Teeth				capitate			
frontal	1				upper I1	1	1		hamate			
parietal		1	1		upper I2	1	1		Metacarpals			
occipital	1				upper C	1	1		Phalanges			
temporal		1	1		upper PM1		1		proximal			
sphenoid	1				upper PM2				middle			
zygomatic					upper M1	1			distal			
maxilla					upper M2		1		Lower Limb			
palatine					upper M3	1			os coxae	1		
nasal					lower I1	1	1		femur	1	1	
ethmoid					lower I2				tibia	1	1	
lacrimial					lower C	1	1		fibula	1	1	
vomer					lower PM1				patella		1	
mandible	1				lower PM2				Ankle			
hyoid					lower M1	1	1		talus			
Vertebrae					lower M2				calcaneus			
cervical					lower M3				navicular			
c1					Upper Limb				medial cun.			
c2	1				clavicle				interm. cun.			
c3-7					scapula				lat.cuneiform			
thoracic					humerus				cuboid			
t1-t12					radius				Metatarsals			
lumbar					ulna				Phalanges			
l1-5					Wrist				proximal			
sacral					scaphoid				middle			
s1					lunate				distal			
s2-5					triquetrum							
coccyx					pisiform							
Sternum					trapezium							
Ribs					trapezoid							

Figure 3.62. Skeletal Summary 59E

RECOVERY 60E

Mortuary Attributes

Burial Orientation

The burial was oriented with the head to the southeast and the feet to the northwest.

Coffin Shape and Size

No coffin was observed.

Hardware

Four adult's swing bail handles in two different styles were recovered and one infant's swing bail handle were recovered. Also recovered were one stamped tin coffin stud and two escutcheons.

Cultural Attributes

Clothing

No clothing-related artifacts were recovered.

Other Personal Artifacts

No other personal artifacts were recovered.

Other Inclusions or Offerings

No other inclusions or offerings were recovered.

Summary and Estimated Date of Burial

It is probable that the infant's swing bail handle came from an adjacent burial and was dislocated by mechanical disturbance. However, the two styles of adult's swing bail handles are similar so it is possible they are original to the burial.

Swing bail handles were used between the 1850s and the 1910s, while the interment dates of the cemetery were between 1879 and 1922. The estimated date of burial is between 1879 and 1920.

Osteological Attributes

Inventory and Preservation

This individual is represented by various fragments of the post-cranial skeleton and is in poor condition (Figure 3.63).

Age

The age of the individual was determined to be a young to middle adult based on the phase of the auricular surfaces of the os coxae (30-39 years).

Sex

The sex of the individual was determined to be male based on the mental eminence and the mandibular morphology.

Stature

Could not be determined due to missing elements.

Ancestry

Could not be determined due to missing elements.

Skeletal Pathology

No pathological conditions were observed on the recovered remains.

Dental Pathology

Could not be determined due to missing elements.

Osteological Summary for 60E

This individual was represented by various post-cranial fragments and determined to be a young to middle adult male.

60E

Sex: Male

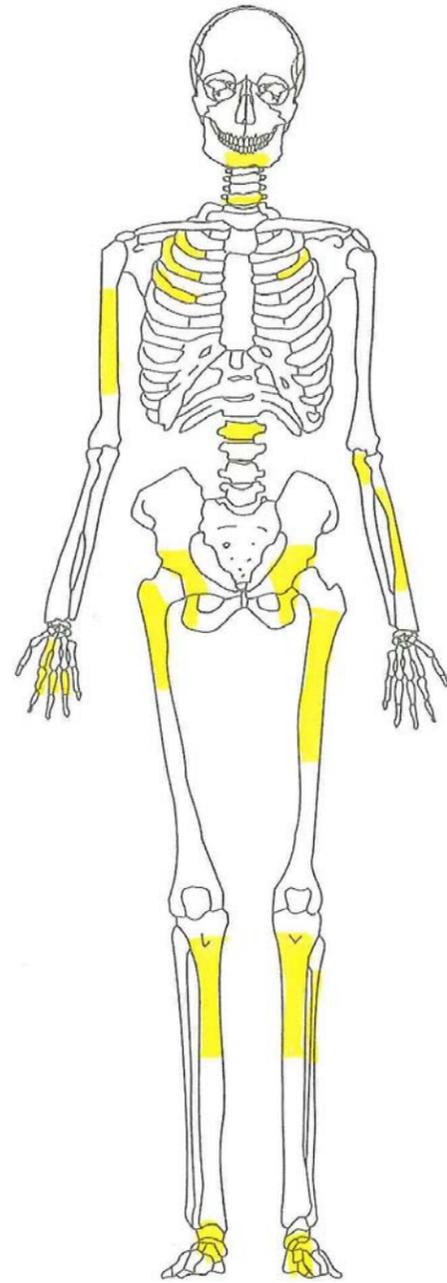
Age: Young to Middle Adult

Ancestry: indeterminate

Height: indeterminate

Skeletal Pathology: none observed

Dental Pathology: indeterminate



60E Skeletal Elements Represented												
Element Name	Axial MNE	Left MNE	Right MNE	Indet. MNE	Element Name	Left MNE	Right MNE	Indet. MNE	Element Name	Left MNE	Right MNE	Indet. MNE
Skull					Teeth				capitate			
frontal					upper I1				hamate			
parietal					upper I2				Metacarpals		1	
occipital					upper C				Phalanges			
temporal					upper PM1				proximal			4
sphenoid					upper PM2				middle			
zygomatic					upper M1				distal			
maxilla					upper M2				Lower Limb			
palatine					upper M3				os coxae	1	1	
nasal					lower I1				femur	1	1	
ethmoid					lower I2				tibia	1	1	
lacrimial					lower C				fibula	1		
vomer					lower PM1				patella			
mandible	1				lower PM2				Ankle			
hyoid					lower M1				talus		1	
Vertebrae					lower M2				calcaneus	1	1	
cervical					lower M3				navicular	1		
c1					Upper Limb				medial cun.	1		
c2					clavicle				interm. cun.			
c3-7	1				scapula				lat.cuneiform			
thoracic					humerus		1		cuboid			
t1-t12	3				radius	1			Metatarsals			1
lumbar					ulna	1			Phalanges			
l1-5	1				Wrist				proximal			
sacral					scaphoid				middle			
s1					lunate				distal			
s2-5					triquetrum							
coccyx					pisiform							
Sternum					trapezium							
Ribs		1	3		trapezoid							

Figure 3.63. Skeletal Summary E60

RECOVERY 61E

Mortuary Attributes

Burial Orientation

The burial was oriented with the head to the northwest and the feet to the southeast.

Coffin Shape and Size

The remnants of the coffin and/or distinct outline of differently colored soil indicated that the coffin was hexagonal in shape. It was impacted, hindering an accurate determination of size. The remaining portion was 30 inches (76.2 cm) long, 9 inches (22.86 cm) at its maximum width and 5 inches (12.7 cm) at its minimum width.

Hardware

Five fragments of three infant's swing bail handles were recovered. One thumbscrew and an escutcheon were also recovered.

Cultural Attributes

Clothing

No clothing-related artifacts were recovered.

Other Personal Artifacts

No other personal artifacts were recovered.

Other Inclusions or Offerings

No other inclusions or offerings were recovered.

Summary and Estimated Date of Burial

Swing bail handles were used between the 1850s and the 1910s, while the interment dates of the cemetery were between 1879 and 1922. The estimated date of burial is between 1879 and 1920.

The swing bail handles and chronological age of the remains indicate that this was a child burial.

Osteological Attributes

Inventory and Preservation

This individual is represented by one deciduous tooth and bone in matrix too decomposed for identification.

Age

The age of the individual was determined to be a child based on the complete crown development of the deciduous right mandibular second molar (9 months-10 years).

Sex

Could not be determined due to missing elements.

Stature

Could not be determined due to missing elements.

Ancestry

Could not be determined due to missing elements.

Skeletal Pathology

Could not be determined due to missing elements.

Dental Pathology

No pathological conditions were observed on the recovered remains.

Osteological Summary for 61E

This individual was represented by one deciduous tooth and determined to be a child.

RECOVERY 62E

Mortuary Attributes

Burial Orientation

The burial was oriented with the head to the southeast and the feet to the northwest.

Coffin Shape and Size

The remnants of the coffin and/or distinct outline of differently colored soil indicated that the coffin was hexagonal in shape. It was 67 inches (170.18 cm) long, 18 inches (45.72 cm) at its maximum width and 8 inches (20.32 cm) at its minimum width.

Hardware

One escutcheon fragment was recovered.

Cultural Attributes

Clothing

One ceramic, four-hole, dish-style button was recovered.

Other Personal Artifacts

No other personal artifacts were recovered.

Other Inclusions or Offerings

No other inclusions or offerings were recovered.

Summary and Estimated Date of Burial

Prosser process buttons were manufactured between 1849 and 1910, while the interment dates of the cemetery were between 1879 and 1922. The estimated date of burial is between 1879 and 1910.

Osteological Attributes

Inventory and Preservation

This individual is represented by relatively complete skull, dentition and 70% of the post-cranial skeleton (Figure 3.64). The bone is in fair condition, but fragmented.

Age

The age of the individual was determined to be a young adult based on the auricular surface of the right os coxa (25-34 years).

Sex

The sex of the individual was determined to be female based on the supraorbital margins, mental eminence and greater sciatic notch of the right os coxa.

Stature

Could not be determined due to missing elements.

Ancestry

The ancestry of the individual was determined to be Euro-American based on nasal morphology.

Skeletal Pathology

Cribra orbitalia was observed in the form of true porosity with grooves on the superior orbital surfaces on the frontal bone, probably caused by a metabolic disorder.

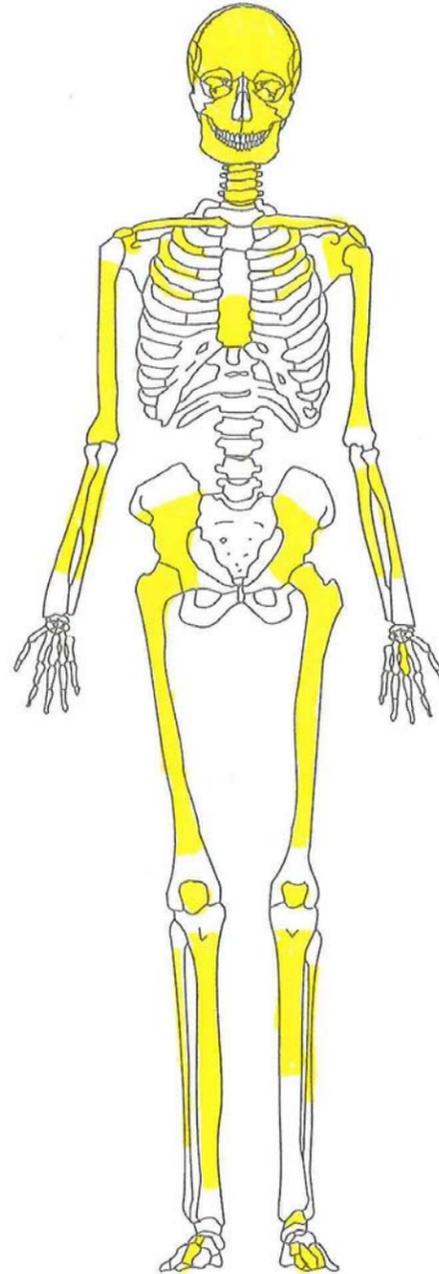
Dental Pathology

There was antemortem tooth loss of the left and right maxillary first incisors, the right maxillary second incisor, the right maxillary first premolar, the left maxillary second premolar, the left and right mandibular first molars and the right mandibular third molars. Minor dental wear was observed on the teeth recovered. Carious lesions were found on the mesial and distal interproximal surfaces of the left maxillary second incisor; the distal interproximal surface of the left maxillary canine; the mesial and distal surfaces of the right maxillary canines; the entire crown of the left maxillary first premolar; the distal interproximal surface of the left maxillary second molar; the mesial interproximal surface of the right maxillary second molar; the mesial and distal interproximal surfaces of the left mandibular first incisor; the mesial and distal interproximal surfaces of the left mandibular second incisor; the distal interproximal, buccal and cervical surfaces of the right mandibular canine; the mesial and distal interproximal surfaces of the left mandibular first premolar; the mesial and distal interproximal surfaces of the right mandibular first premolar; the complete crown of the left mandibular second premolar; the complete crown of the right mandibular second premolar; and the complete crown of the right mandibular second molar.

Osteological Summary for 62E

This individual was represented by a skull and post-cranial skeleton. The individual was determined to be a young adult female of Euro-American ancestry with cribra orbitalia, minor dental wear, antemortem tooth loss and carious lesions.

62E
 Sex: Female
 Age: Young Adult
 Ancestry: Euro-American
 Height: indeterminate
 Skeletal Pathology: Cribra Orbitalia
 Dental Pathology: Antemortem Tooth Loss, Carious



62E Skeletal Elements Represented												
Element Name	Axial MNE	Left MNE	Right MNE	Indet. MNE	Element Name	Left MNE	Right MNE	Indet. MNE	Element Name	Left MNE	Right MNE	Indet. MNE
Skull					Teeth				capitate			
frontal	1				upper I1				hamate			
parietal		1	1		upper I2	1			Metacarpals			1
occipital	1				upper C	1	1		Phalanges			
temporal		1	1		upper PM1	1			proximal			
sphenoid	1				upper PM2				middle			
zygomatic		1			upper M1				distal			
maxilla		1	1		upper M2	1	1		Lower Limb			
palatine					upper M3	1			os coxae	1	1	
nasal					lower I1	1			femur	1	1	
ethmoid					lower I2	1			tibia	1	1	
lacrimial					lower C	1	1		fibula	1	1	
vomer					lower PM1	1	1		patella	1	1	
mandible	1				lower PM2	1	1		Ankle			
hyoid					lower M1				talus	1		
Vertebrae					lower M2		1		calcaneus			
cervical					lower M3				navicular			
c1	1				Upper Limb				medial cun.			
c2	1				clavicle	1	1		interm. cun.			
c3-7	2				scapula	1	1		lat.cuneiform			
thoracic					humerus	1	1		cuboid			
t1-t12	3				radius	1	1		Metatarsals	3	1	
lumbar					ulna	1	1		Phalanges			
l1-5					Wrist				proximal			
sacral					scaphoid				middle			
s1					lunate				distal			
s2-5					triquetrum							
coccyx					pisiform							
Sternum	1				trapezium							
Ribs		3	3		trapezoid							

Figure 3.64. Skeletal Summary 62E

RECOVERY 63E

Mortuary Attributes

Burial Orientation

The burial was oriented with the head to the southeast and the feet to the northwest.

Coffin Shape and Size

The remnants of the coffin and/or distinct outline of differently colored soil indicated that the coffin was hexagonal in shape. It was 76 inches (193.04 cm) long, 17 inches (43.18 cm) at its maximum width and 8” at its minimum width.

Hardware

Seventeen fragments of six swing bail handles and five fragments of four thumbscrews and escutcheons were recovered.

Cultural Attributes

Clothing

No clothing-related artifacts were recovered.

Other Personal Artifacts

No other personal artifacts were recovered.

Other Inclusions or Offerings

No other inclusions or offerings were recovered.

Summary and Estimated Date of Burial

Swing bail handles were used between the 1850s and the 1910s, while the interment dates of the cemetery were between 1879 and 1922. The estimated date of burial is between 1879 and 1920.

Osteological Attributes

Inventory and Preservation

This individual is represented by a partial skull, dentition and 50% of the post-cranial skeleton (Figure 3.65). The skull consists of the cranial, facial bones and mandible. These bones are in fair condition, but fragmented and friable. The long bones from the upper and lower limbs and vertebrae are in poor condition.

Age

The age of the individual was determined to be a middle adult based on the phase of the auricular surface of the left os coxa (35-44 years).

Sex

The sex of the individual was determined to be female based on the mastoid processes, glabella and mental eminence.

Stature

Could not be determined due to missing elements.

Ancestry

The ancestry of the individual was determined to be Euro-American based on nasal morphology.

Skeletal Pathology

Endosteal bone formation due to infection was observed slightly narrowing the medullary cavities of most of the long bones recovered. The bones affected were the left and right humeri, ulnae, radii, tibiae, femora and fibula. Cribra orbitalia, probably due to anemia, was observed in the form of coalesced porosity on the superior orbital surface of the frontal bone.

Dental Pathology

Minor wear was observed on the anterior teeth and moderate wear was found on the molars. There was antemortem tooth loss of the right maxillary second incisor, left and right maxillary second premolars, left and right mandibular second premolars and the left mandibular third molar. Carious lesions with gold filling were found on the distal interproximal surface of the left and right maxillary first incisors and mesial interproximal surface of the left maxillary second incisor. Carious lesions without fillings were observed on the mesial interproximal surface of the right maxillary first incisor, the left mandibular first premolar, the distal interproximal and buccal surfaces of the left mandibular first molar, the buccal surface of the right mandibular first molar, the buccal surface of the left mandibular second molar and the buccal surface of the right mandibular second molar. A linear horizontal hypoplastic groove was located 3.46 mm from the CEJ on the left maxillary canine. Single hypoplastic pits were observed on the left and right maxillary and mandibular canines.

Osteological Summary for 63E

This individual is represented by a partial skull with teeth and fragmented post-cranial skeleton. The individual was determined to be a middle adult female of Euro-American ancestry with endosteal bone formation, cribra orbitalia, minor to moderate dental wear, antemortem tooth loss, hypoplasias and carious lesions with and without gold fillings.

63E

Sex: Female

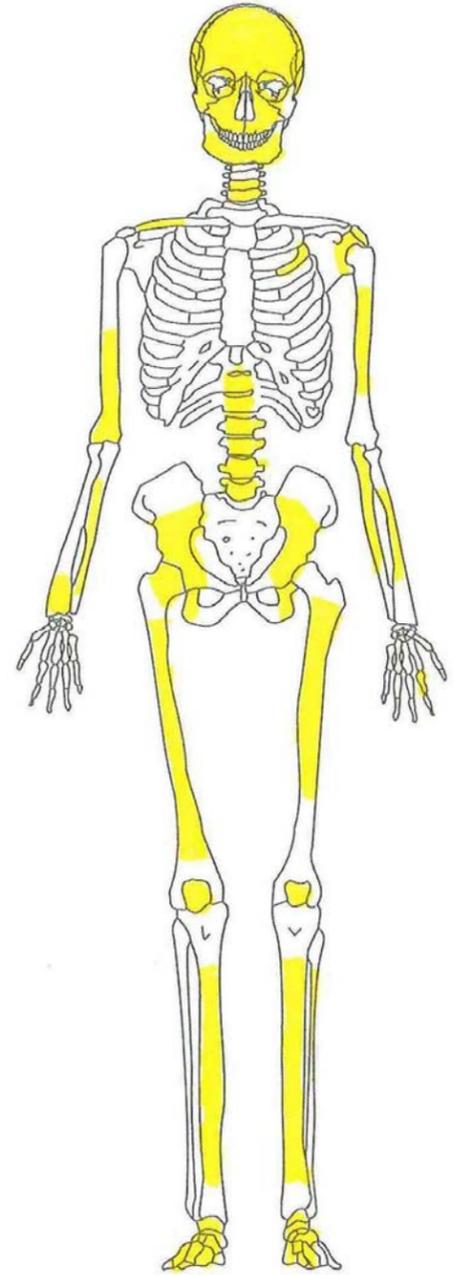
Age: Middle Adult

Ancestry: Euro-American

Height: indeterminate

Skeletal Pathology: Cribra Orbitalia, Endosteal Bone Formation

Dental Pathology: Antemortem Tooth Loss, Carious Lesions with Gold Fillings, Hypoplasias



63E Skeletal Elements Represented												
Element Name	Axial MNE	Left MNE	Right MNE	Indet. MNE	Element Name	Left MNE	Right MNE	Indet. MNE	Element Name	Left MNE	Right MNE	Indet. MNE
Skull					Teeth				capitate			
frontal	1				upper I1	1	1		hamate			
parietal		1	1		upper I2	1			Metacarpals			
occipital	1				upper C	1	1		Phalanges			
temporal		1	1		upper PM1	1	1		proximal			1
sphenoid					upper PM2				middle			
zygomatic			1		upper M1		1		distal			
maxilla		1	1		upper M2	1			Lower Limb			
palatine					upper M3	1	1		os coxae	1	1	
nasal					lower I1	1	1		femur	1	1	
ethmoid					lower I2	1	1		tibia	1	1	
lacrimial					lower C	1	1		fibula			1
vomer					lower PM1	1	1		patella	1	1	
mandible	1				lower PM2				Ankle			
hyoid					lower M1	1	1		talus	1	1	
Vertebrae					lower M2	1	1		calcaneus	1	1	
cervical					lower M3		1		navicular	1	1	
c1					Upper Limb				medial cun.			
c2					clavicle		1		interm. cun.			
c3-7	2				scapula	1			lat.cuneiform		1	
thoracic					humerus	1	1		cuboid			
t1-t12	10				radius	1	1		Metatarsals	2	3	
lumbar					ulna	1	1		Phalanges			
l1-5	5				Wrist				proximal			
sacral					scaphoid				middle			
s1					lunate				distal			
s2-5					triquetrum							
coccyx					pisiform							
Sternum					trapezium							
Ribs		1			trapezoid							

Figure 3.65. Skeletal Summary 63E

RECOVERY 64E

Mortuary Attributes

Burial Orientation

The burial was oriented with the head to the southeast and the feet to the northwest.

Coffin Shape and Size

The remnants of the coffin and/or distinct outline of differently colored soil indicated that the coffin was hexagonal in shape. It was 66 inches (167.64 cm) long, 15 inches (38.1 cm) at its maximum width and 11 inches (27.94 cm) at its minimum width.

Hardware

Ten fragments of six swing bail handles, one thumbscrew and three stamped tin coffin studs were recovered.

Cultural Attributes

Clothing

Three ceramic, four-hole, dish-style buttons were recovered from the lower pelvic region. Two ferrous buttons were recovered from either side of the lower abdominal region. One fragment of a suspender clasp was also recovered from the pelvic region, above the ceramic buttons.

Other Personal Artifacts

No other personal artifacts were recovered.

Other Inclusions or Offerings

No other inclusions or offerings were recovered.

Summary and Estimated Date of Burial

Swing bail handles were used between the 1850s and 1910s, while the interment dates of the cemetery were between 1879 and 1922. The estimated date of burial is between 1879 and 1920.

Osteological Attributes

Inventory and Preservation

This individual is represented by a partial skull, dentition and 40% of the post-cranial skeleton (Figure 3.66). The skull consists of the cranium, a few facial bones and mandible, which are in fair condition, but fragmented. The upper and lower limbs and a few vertebrae are in poor condition.

Age

The age of the individual was determined to be an adult based on the complete eruption of the left mandibular third molar (>23 years).

Sex

The sex of the individual was determined to be male based on the mastoid processes and mental eminence.

Stature

Could not be determined due to missing elements.

Ancestry

Could not be determined due to missing elements.

Skeletal Pathology

Abnormal endosteal bone formation, probably due to infection, was observed in the femoral and tibial shafts recovered resulting in the narrowing of the medullary cavities.

Dental Pathology

Minor wear was observed on the anterior teeth and moderate wear was found on the molars. Linear horizontal hypoplastic grooves were found 3.31 mm and 1.49 mm from the CEJ on the right maxillary second incisor, 2.51 mm from the CEJ on the left maxillary canine, 3.55 mm from the CEJ on the right maxillary first premolar, 3.92 mm from the CEJ on the left mandibular canine and 4.15 mm from the CEJ on the right mandibular canine.

Osteological Summary for 64E

This individual is represented by a partial skull with teeth and limb bone shafts. The individual was determined to be an adult male with abnormal endosteal bone formation, minor to moderate dental wear and hypoplasias.

64E

Gender: Male

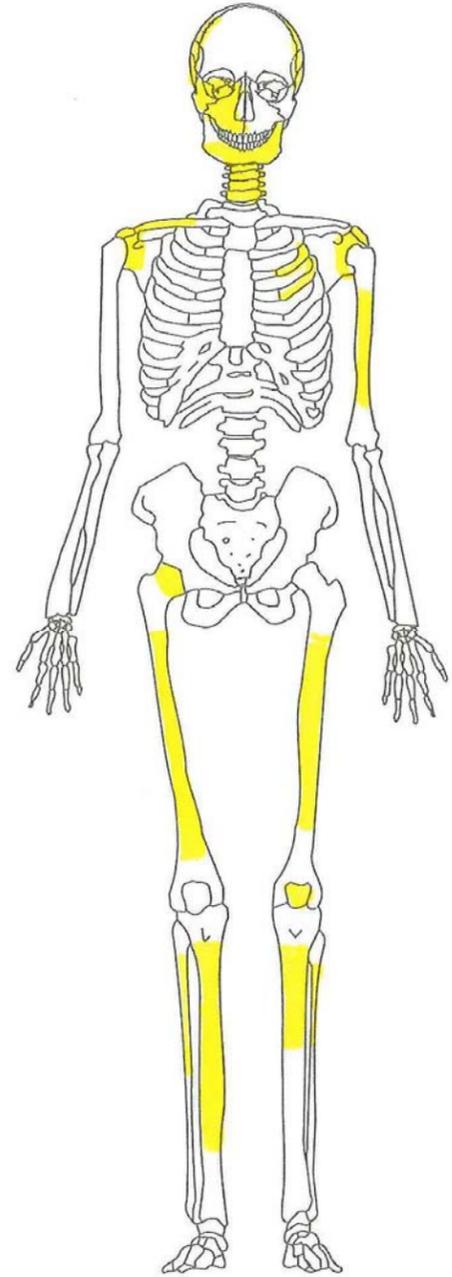
Age: Adult

Ancestry: indeterminate

Height: indeterminate

Skeletal Pathology: Endosteal Bone Formation

Dental Pathology: Hypoplasias



64E Skeletal Elements Represented												
Element Name	Axial MNE	Left MNE	Right MNE	Indet. MNE	Element Name	Left MNE	Right MNE	Indet. MNE	Element Name	Left MNE	Right MNE	Indet. MNE
Skull					Teeth				capitate			
frontal					upper I1				hamate			
parietal		1	1		upper I2		1		Metacarpals			
occipital	1				upper C	1			Phalanges			
temporal		1	1		upper PM1	1			proximal			
sphenoid	1				upper PM2	1	1		middle			
zygomatic			1		upper M1	1	1		distal			
maxilla			1		upper M2	1	1		Lower Limb			
palatine					upper M3				os coxae			
nasal					lower I1	1	1		femur	1	1	
ethmoid					lower I2	1	1		tibia	1	1	
lacrimial					lower C	1	1		fibula	1	1	
vomer					lower PM1	1	1		patella	1		
mandible	1				lower PM2	1	1		Ankle			
hyoid					lower M1	1	1		talus			
Vertebrae					lower M2	1	1		calcaneus			
cervical					lower M3	1	1		navicular			
c1	1				Upper Limb				medial cun.			
c2	1				clavicle		1		interm. cun.			
c3-7	5				scapula	1	1		lat.cuneiform			
thoracic					humerus	1			cuboid			
t1-t12					radius				Metatarsals			
lumbar					ulna				Phalanges			
l1-5					Wrist				proximal			
sacral					scaphoid				middle			
s1					lunate				distal			
s2-5					triquetrum							
coccyx					pisiform							
Sternum					trapezium							
Ribs		2			trapezoid							

Figure 3.66. Skeletal Summary 64E

RECOVERY 65E

Mortuary Attributes

Burial Orientation

The burial was oriented with the head to the southeast and the feet to the northwest.

Coffin Shape and Size

The remnants of the coffin and/or distinct outline of differently colored soil indicated that the coffin was hexagonal in shape. It was 68 inches (172.72 cm) long, 17 inches (43.18 cm) at its maximum width and 8 inches (20.32 cm) at its minimum width.

Hardware

No hardware was recovered.

Cultural Attributes

Clothing

Six non-ferrous, four-hole buttons and four ferrous and non-ferrous buttons were recovered.

Other Personal Artifacts

No other personal artifacts were recovered.

Other Inclusions or Offerings

No other inclusions or offerings were recovered.

Relevant Field Notes

The recovery was found due to over-excavation of the area.

Summary and Estimated Date of Burial

No artifacts were recovered that could accurately estimate the date of burial. The date of burial is estimated to be between the interment dates of the cemetery, 1879 and 1922.

Osteological Attributes

Inventory and Preservation

This individual is represented by a complete skull, dentition and 60% of the post-cranial skeleton (Figure 3.67). The skull is in good condition, but fragmented. The upper and lower limb bones and vertebrae are in fair, but fragmented condition.

Age

The age of the individual was determined to be a young to middle adult based on the closure of the external cranial vault sutures (27-45 years).

Sex

The sex of the individual was determined to be female based on the mastoid process, glabella, mental eminence, mandibular morphology and the greater sciatic notch of the right os coxa.

Stature

Could not be determined due to missing elements.

Ancestry

The ancestry of the individual was determined to be a mix between Asian based on shovel shaped incisors and Euro-American based on nasal morphology.

Skeletal Pathology

A lytic lesion was observed in the form of a circular area of abnormal bone resorption with a maximum diameter of 26.59 mm on the outer cortex on the left region of the frontal bone. The affected area appears smooth indicating it was in the process of healing at the time of death.

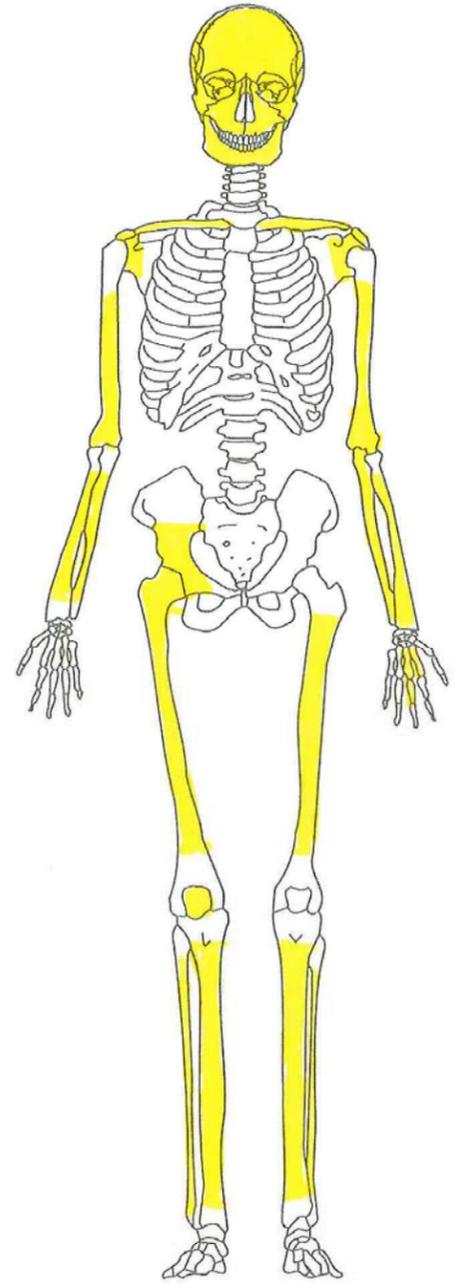
Dental Pathology

Minor dental wear was observed on the anterior teeth and moderate wear was found on the molars. The left mandibular first incisor was lost antemortem. Two carious lesions with gold fillings were found on the distal interproximal surfaces of the left maxillary second incisor. Linear horizontal hypoplastic grooves were observed 3.24 mm and 2.20 mm from the CEJ on the right maxillary canine, 3.69 mm and 2.47 mm from the CEJ on the left mandibular canine and 4.05 mm and 2.84 mm from the CEJ on the right mandibular canine.

Osteological Summary for 65E

This individual is represented by a skull with teeth and upper and lower limbs. The individual was determined to be a young to middle adult female of mixed ancestry with a lytic lesion, minor to moderate dental wear, antemortem tooth loss, carious lesions with gold fillings and hypoplasias.

65E
 Sex: Female
 Age: Young to Middle Adult
 Ancestry: Mixed
 Height: indeterminate
 Skeletal Pathology: Abnormal Bone Loss
 Dental Pathology: Antemortem Tooth Loss, Carious Lesions with Gold Fillings, Hypoplasias



65E Skeletal Elements Represented												
Element	Axial	Left	Right	Indet.	Element	Left	Right	Indet.	Element	Left	Right	Indet.
Name	MNE	MNE	MNE	MNE	Name	MNE	MNE	MNE	Name	MNE	MNE	MNE
Skull					Teeth				capitate			
frontal	1				upper I1	1	1		hamate			
parietal		1	1		upper I2	1	1		Metacarpals			2
occipital	1				upper C	1	1		Phalanges			
temporal		1	1		upper PM1	1	1		proximal			1
sphenoid	1				upper PM2	1	1		middle			
zygomatic		1	1		upper M1	1	1		distal			
maxilla		1	1		upper M2	1	1		Lower Limb			
palatine		1	1		upper M3	1	1		os coxae		1	
nasal		1	1		lower I1		1		femur	1	1	
ethmoid	1				lower I2	1	1		tibia	1	1	
lacrimial		1	1		lower C	1	1		fibula	1	1	
vomer					lower PM1	1	1		patella		1	
mandible	1				lower PM2	1	1		Ankle			
hyoid					lower M1	1	1		talus			
Vertebrae					lower M2	1	1		calcaneus			
cervical					lower M3	1	1		navicular			
c1	1				Upper Limb				medial cun.			
c2	1				clavicle	1	1		interm. cun.			
c3-7	5				scapula	1	1		lat.cuneiform			
thoracic					humerus	1	1		cuboid			
t1-t12					radius	1	1		Metatarsals			
lumbar					ulna	1	1		Phalanges			
l1-5					Wrist				proximal			
sacral					scaphoid				middle			
s1					lunate				distal			
s2-5					triquetrum							
coccyx					pisiform							
Sternum					trapezium							
Ribs					trapezoid							

Figure 3.67. Skeletal Summary 65E

RECOVERY 66E

Mortuary Attributes

Burial Orientation

The burial was oriented southeast-northwest.

Coffin Shape and Size

The remnants of the coffin and/or distinct outline of differently colored soil indicated that the coffin was rectangular in shape. It was 29 inches (73.66 cm) long and was 11 inches (27.94 cm) wide. One fragment with remnants of red paint was recovered.

Hardware

Five fragments of four thumbscrews and four escutcheons were recovered.

Cultural Attributes

Clothing

No clothing-related artifacts were recovered.

Other Personal Artifacts

No other personal artifacts were recovered.

Other Inclusions or Offerings

Three fragments of a clam shell were recovered.

Summary and Estimated Date of Burial

The dimensions of the coffin suggest that this was an infant burial.

No artifacts were recovered that could accurately estimate the date of burial. The date of burial is estimated to be between the interment dates of the cemetery, 1879 to 1922.

Osteological Attributes

No bone was observed or recovered.

RECOVERY 67E

Mortuary Attributes

Burial Orientation

The burial was oriented with the head to the southeast and the feet to the northwest.

Coffin Shape and Size

The burial was heavily impacted, hindering an accurate determination of shape and size.

Hardware

No hardware was recovered.

Cultural Attributes

Clothing

Three ceramic, four-hole, tire-style buttons were recovered.

Other Personal Artifacts

No other personal artifacts were recovered.

Other Inclusions or Offerings

No other inclusions or offerings were recovered.

Relevant Field Notes

The recovery found due to over-excavation of the area.

Summary and Estimated Date of Burial

Prosser process buttons were manufactured between 1849 and 1910, while the interment dates of the cemetery were between 1879 and 1922. The estimated date of burial is between 1879 and 1910.

Osteological Attributes

Inventory and Preservation

This individual is represented by the right upper limb bones and the lower limbs (Figure 3.68). The bone is in poor condition and fragmented.

Age

The age of the individual was determined to be an adult based on the complete fusion of the proximal epiphysis of the right tibia (>22 years).

Sex

Could not be determined due to missing elements.

Stature

Could not be determined due to missing elements.

Ancestry

Could not be determined due to missing elements.

Skeletal Pathology

Endosteal bone formation, probably due to infection, was observed on the shafts of the right humerus and left and right tibiae, resulting in the narrowing of the medullary cavities.

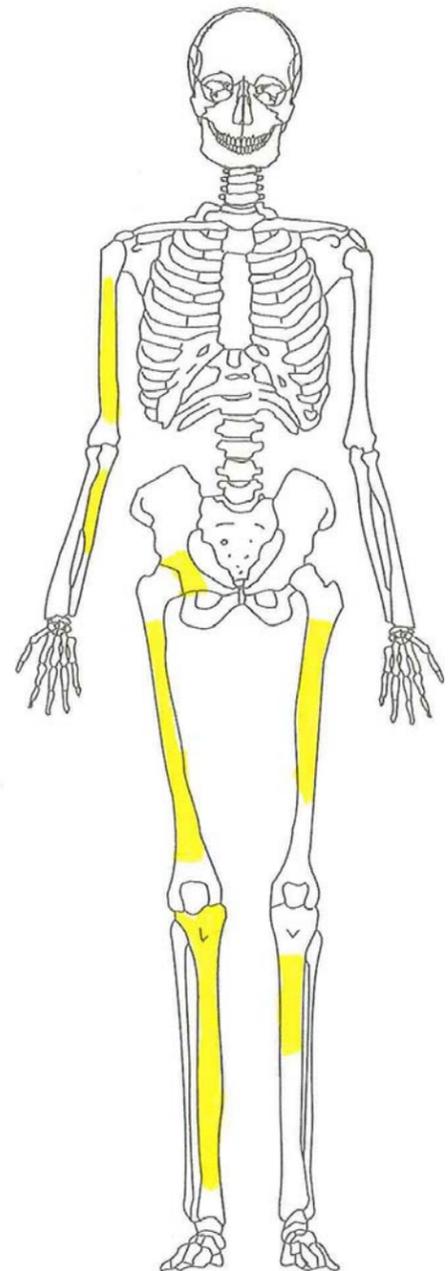
Dental Pathology

Could not be determined due to missing elements.

Osteological Summary for 67E

This individual was represented by upper and lower limb bones and determined to be an adult with abnormal endosteal bone formation.

67E
 Sex: indeterminate
 Age: Adult
 Ancestry: indeterminate
 Height: indeterminate
 Skeletal Pathology: Endosteal Bone
 Formation
 Dental Pathology: indeterminate



67E Skeletal Elements Represented												
Element Name	Axial MNE	Left MNE	Right MNE	Indet. MNE	Element Name	Left MNE	Right MNE	Indet. MNE	Element Name	Left MNE	Right MNE	Indet. MNE
Skull					Teeth				capitate			
frontal					upper I1				hamate			
parietal					upper I2				Metacarpals			
occipital					upper C				Phalanges			
temporal					upper PM1				proximal			
sphenoid					upper PM2				middle			
zygomatic					upper M1				distal			
maxilla					upper M2				Lower Limb			
palatine					upper M3				os coxae		1	
nasal					lower I1				femur	1	1	
ethmoid					lower I2				tibia	1	1	
lacrimial					lower C				fibula			
vomer					lower PM1				patella			
mandible					lower PM2				Ankle			
hyoid					lower M1				talus			
Vertebrae					lower M2				calcaneus			
cervical					lower M3				navicular			
c1					Upper Limb				medial cun.			
c2					clavicle				interm. cun.			
c3-7					scapula				lat.cuneiform			
thoracic					humerus		1		cuboid			
t1-t12					radius				Metatarsals			
lumbar					ulna		1		Phalanges			
l1-5					Wrist				proximal			
sacral					scaphoid				middle			
s1					lunate				distal			
s2-5					triquetrum							
coccyx					pisiform							
Sternum					trapezium							
Ribs					trapezoid							

Figure 3.68. Skeletal Summary 67E

RECOVERY 68E

Mortuary Attributes

Burial Orientation

The burial was oriented with the head to the southeast and the feet to the northwest.

Coffin Shape and Size

The remnants of the coffin and/or distinct outline of differently colored soil indicated that the coffin was rectangular in shape. It was 48 inches (121.92 cm) long and 12 inches (30.48 cm) wide.

Hardware

Three fragments of two swing bail handles, seven fragments of six thumbscrews and escutcheons and one Calla Lily ornament were recovered.

Cultural Attributes

Clothing

Thirteen fragments of twelve blue glass buttons were recovered.

Other Personal Artifacts

No other personal artifacts were recovered.

Other Inclusions or Offerings

No other inclusions or offerings were recovered.

Relevant Field Notes

The recovery was found due to over-excavation of the area.

Summary and Estimated Date of Burial

Swing bail handles were used between the 1850s and the 1910s, while the interment dates of the cemetery were between 1879 and 1922. The estimated date of burial is between 1879 and 1920.

The dimensions of the coffin suggest this was a juvenile burial. This is consistent with the chronological age of the skeletal remains which indicate an older child or young teenager.

Osteological Attributes

Inventory and Preservation

This individual is represented by cranial and long bone fragments and deciduous dentition (Figure 3.69). The bone is in poor condition and fragmented.

Age

The age of the individual was determined to be a child based on dental eruption (9.5-14.5 years).

Sex

Could not be determined due to missing elements.

Stature

Could not be determined due to missing elements.

Ancestry

Could not be determined due to missing elements.

Skeletal Pathology

Endosteal bone formation was observed on the long bones recovered; however the bone was too fragmented to identify.

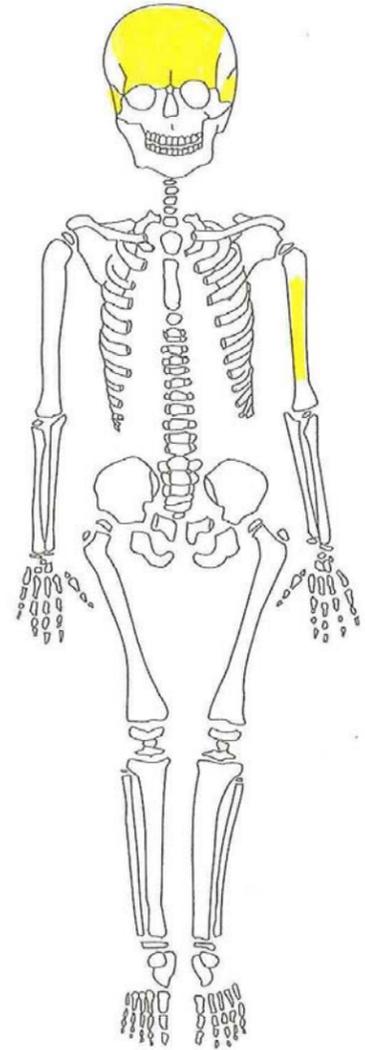
Dental Pathology

Insignificant dental wear was observed on the teeth recovered. One carious lesion was observed on the occlusal surface of the deciduous right mandibular second molar.

Osteological Summary for 68E

This individual is represented by deciduous dentition and bone fragments and determined to be a child with endosteal bone formation and a carious lesion.

68E
 Sex: indeterminate
 Age: Child
 Ancestry: indeterminate
 Height: indeterminate
 Skeletal Pathology: Endosteal Bone
 Formation
 Dental Pathology: Carious Lesion



68E Skeletal Elements Represented												
Element Name	Axial MNE	Left MNE	Right MNE	Indet. MNE	Element Name	Left MNE	Right MNE	Indet. MNE	Element Name	Left MNE	Right MNE	Indet. MNE
Skull					Teeth				capitate			
frontal	1				upper I1	1			hamate			
parietal					upper I2	1			Metacarpals			
occipital					upper C		1		Phalanges			
temporal		1	1		upper PM1	1	1		proximal			
sphenoid					upper PM2				middle			
zygomatic					upper M1	1	1		distal			
maxilla					upper M2				Lower Limb			
palatine					upper M3		1		os coxae			
nasal					lower I1	1			femur			
ethmoid					lower I2				tibia			
lacrima					lower C		1		fibula			
vomer					lower PM1				patella			
mandible					lower PM2				Ankle			
hyoid					lower M1				talus			
Vertebrae					lower M2				calcaneus			
cervical					lower M3				navicular			
c1					Upper Limb				medial cun.			
c2					clavicle				interm. cun.			
c3-7					scapula				lat.cuneiform			
thoracic					humerus			1	cuboid			
t1-t12					radius				Metatarsals			
lumbar					ulna				Phalanges			
l1-5					Wrist				proximal			
sacral					scaphoid				middle			
s1					lunate				distal			
s2-5					triquetrum							
coccyx					pisiform							
Sternum					trapezium							
Ribs					trapezoid							

Figure 3.69. Skeletal Summary 68E

RECOVERY 69E

Mortuary Attributes

Burial Orientation

The burial was oriented with the head to the southeast and the feet to the northwest.

Coffin Shape and Size

The remnants of the coffin and/or distinct outline of differently colored soil indicated that the coffin was rectangular in shape. It was 46 inches (116.84 cm) long and 15 inches (38.1 cm) wide.

Hardware

Five fragments of four swing bail handles with remnants of red and yellow paint on the reverse of the lugs were recovered. One fragment of a light aqua plate viewing glass, a Calla Lily ornament and five fragments of three thumbscrews and escutcheons were recovered.

Cultural Attributes

Clothing

Nine ceramic buttons were recovered, nine four-hole, dish-style and one two-hole, fish-eye style.

Other Personal Artifacts

No other personal artifacts were recovered.

Other Inclusions or Offerings

No other inclusions or offerings were recovered.

Relevant Field Notes

The recovery was found due to over-excavation of the area.

Summary and Estimated Date of Burial

Prosser process buttons were manufactured between 1849 and 1910, while the interment dates of the cemetery were between 1879 and 1922. The estimated date of burial is between 1879 and 1910.

The dimensions of the coffin suggest this was a juvenile burial. This is consistent with the chronological age of the skeletal remains which indicate a younger child.

Osteological Attributes

Inventory and Preservation

This individual is represented by cranial fragments, dentition and about 30% of the post-cranial skeleton (Figure 3.70). The post-cranial skeleton consists of humeri, femora and a left os coxa.

Age

The age of the individual was determined to be a child based on dental development (3.5-6.5 years).

Sex

Could not be determined due to missing elements.

Stature

Could not be determined due to missing elements.

Ancestry

Could not be determined due to missing elements.

Skeletal Pathology

Abnormal periosteal bone loss was observed on the right femur shaft.

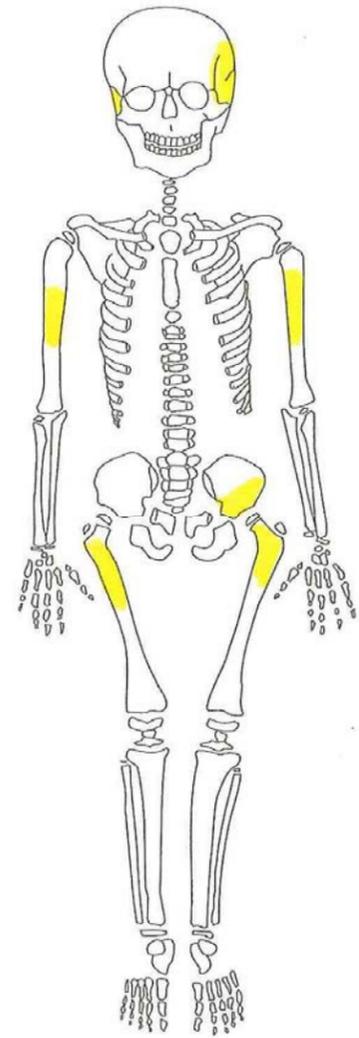
Dental Pathology

No dental pathological conditions were observed on the recovered remains. Insignificant wear was observed on the teeth recovered.

Osteological Summary for 69E

The individual is represented by a partial cranium with teeth and a few limb bones. The individual was determined to be a child with abnormal periosteal bone loss.

69E
 Sex: indeterminate
 Age: Child
 Ancestry: indeterminate
 Height: indeterminate
 Skeletal Pathology: Abnormal Periosteal Bone Loss
 Dental Pathology: none observed



69E Skeletal Elements Represented												
Element Name	Axial MNE	Left MNE	Right MNE	Indet. MNE	Element Name	Left MNE	Right MNE	Indet. MNE	Element Name	Left MNE	Right MNE	Indet. MNE
Skull					Teeth				capitate			
frontal					upper I1	1	1		hamate			
parietal				1	upper I2	1	1		Metacarpals			
occipital					upper C	1	1		Phalanges			
temporal		1	1		upper PM1	1			proximal			
sphenoid					upper PM2	1			middle			
zygomatic					upper M1	1			distal			
maxilla					upper M2	1			Lower Limb			
palatine					upper M3				os coxae	1		
nasal					lower I1	1	1		femur	1	1	
ethmoid					lower I2	1	1		tibia			
lacrimial					lower C		1		fibula			
vomer					lower PM1	1	1		patella			
mandible					lower PM2	1	1		Ankle			
hyoid					lower M1	1	1		talus			
Vertebrae					lower M2	1	1		calcaneus			
cervical					lower M3				navicular			
c1					Upper Limb				medial cun.			
c2					clavicle				interm. cun.			
c3-7					scapula				lat.cuneiform			
thoracic					humerus	1	1		cuboid			
t1-t12					radius				Metatarsals			
lumbar					ulna				Phalanges			
l1-5					Wrist				proximal			
sacral					scaphoid				middle			
s1					lunate				distal			
s2-5					triquetrum							
coccyx					pisiform							
Sternum					trapezium							
Ribs					trapezoid							

Figure 3.70. Skeletal Summary 69E

RECOVERY 70E

Mortuary Attributes

Burial Orientation

The burial was oriented with the head to the southeast and the feet to the northwest.

Coffin Shape and Size

The remnants of the coffin and/or distinct outline of differently colored soil indicated that the coffin was hexagonal in shape. It was 25 inches (63.5 cm) long, 8 inches (20.32 cm) at its maximum width and 5 inches (12.7 cm) at its minimum width. One fragment of coffin wood with remnants of white paint was recovered. The interior side of the wood was crudely carved with the letters CAN.

Hardware

Five fragments of four infant's swing bail handles, twenty-nine fragments of a light aqua plate viewing glass, two coffin tack heads, two escutcheons and one thumbscrew were recovered. Also recovered was a caplifter and escutcheon in the form of a bluebird nesting on a bed of flowers. Twelve non-diagnostic nail fragments were discarded.

Cultural Attributes

Clothing

No clothing-related artifacts were recovered.

Other Personal Artifacts

No other personal artifacts were recovered.

Other Inclusions or Offerings

No other inclusions or offerings were recovered.

Relevant Field Notes

The recovery was found due to over-excavation of the area.

Summary and Estimated Date of Burial

Swing bail handles were used between the 1850s and the 1910s, while the interment dates of the cemetery were between 1879 and 1922. The estimated date of burial is between 1879 and 1920.

The dimensions of the coffin, the coffin hardware and especially the bluebird ornament suggest this was an infant burial.

Osteological Attributes

Inventory and Preservation

This individual is represented by vertebral fragments in poor condition (Figure 3.71).

Age

Could not be determined due to missing elements.

Sex

Could not be determined due to missing elements.

Stature

Could not be determined due to missing elements.

Ancestry

Could not be determined due to missing elements.

Skeletal Pathology

Could not be determined due to missing elements.

Dental Pathology

Could not be determined due to missing elements.

Osteological Summary for 70E

This individual is represented by vertebral fragments and the biological profile could not be determined due to missing elements.

70E

Sex: indeterminate

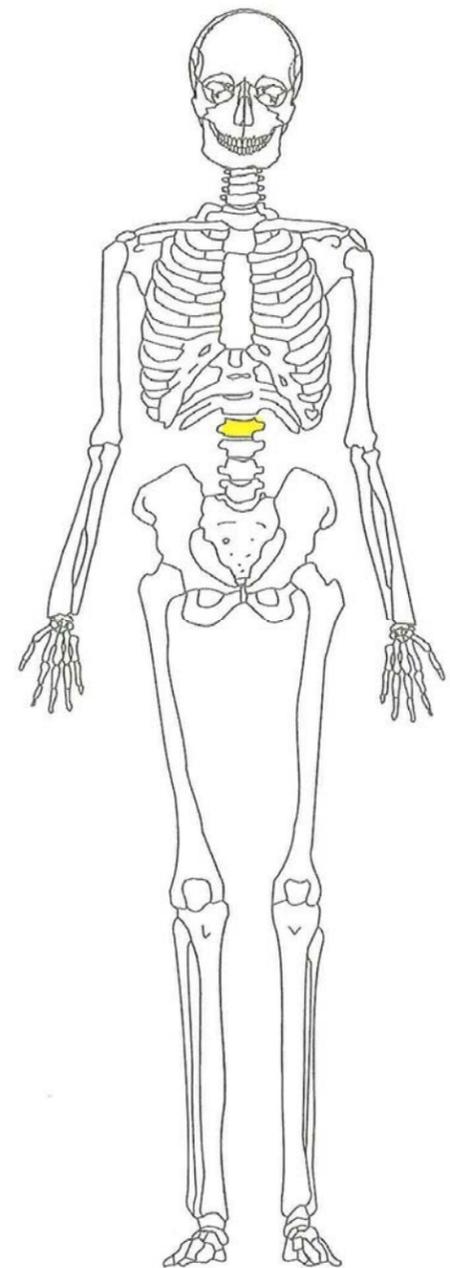
Age: indeterminate

Ancestry: indeterminate

Height: indeterminate

Skeletal Pathology: indeterminate

Dental Pathology: indeterminate



70E Skeletal Elements Represented												
Element Name	Axial MNE	Left MNE	Right MNE	Indet. MNE	Element Name	Left MNE	Right MNE	Indet. MNE	Element Name	Left MNE	Right MNE	Indet. MNE
Skull					Teeth				capitate			
frontal					upper I1				hamate			
parietal					upper I2				Metacarpals			
occipital					upper C				Phalanges			
temporal					upper PM1				proximal			
sphenoid					upper PM2				middle			
zygomatic					upper M1				distal			
maxilla					upper M2				Lower Limb			
palatine					upper M3				os coxae			
nasal					lower I1				femur			
ethmoid					lower I2				tibia			
lacrimial					lower C				fibula			
vomer					lower PM1				patella			
mandible					lower PM2				Ankle			
hyoid					lower M1				talus			
Vertebrae	1				lower M2				calcaneus			
cervical					lower M3				navicular			
c1					Upper Limb				medial cun.			
c2					clavicle				interm. cun.			
c3-7					scapula				lat.cuneiform			
thoracic					humerus				cuboid			
t1-t12					radius				Metatarsals			
lumbar					ulna				Phalanges			
l1-5					Wrist				proximal			
sacral					scaphoid				middle			
s1					lunate				distal			
s2-5					triquetrum							
coccyx					pisiform							
Sternum					trapezium							
Ribs					trapezoid							

Figure 3.71. Skeletal Summary 70E

RECOVERY 71B

Mortuary Attributes

Burial Orientation

The burial was oriented with the head to the southwest and the feet to the northeast.

Coffin Shape and Size

The remnants of the coffin and/or distinct outline of differently colored soil indicated that the coffin was hexagonal in shape. It was 72 inches (182.88 cm) long, 24 inches (60.96 cm) at its maximum width and 10 inches (25.4 cm) at its minimum width.

Hardware

Four non-diagnostic nail fragments were discarded.

Cultural Attributes

Clothing

One ceramic, four-hole, pie crust-style button was recovered.

Other Personal Artifacts

No other personal artifacts were recovered.

Other Inclusions or Offerings

No other inclusions or offerings were recovered.

Relevant Field Notes

This was the first recovery found during data recovery. The recovery was removed in a block of matrix from the pelvis to the skull, with the lower limbs removed individually before hand. It was about 2'8" below the level of the other burials found nearby.

Summary and Estimated Date of Burial

Prosser process buttons were manufactured between 1849 and 1910, while the interment dates of the cemetery were between 1879 and 1922. The estimated date of burial is between 1879 and 1910.

Osteological Attributes

Inventory and Preservation

This individual is represented by a complete skeleton and 80% of the post-cranial skeleton (Figure 3.72). The cranial vault is complete and in good condition, but the face is fragmented. The upper and lower limbs, vertebrae and left os coxa are fragmented, but in good condition.

Age

The individual was determined to be an adolescent based on the incomplete eruption of the left and right mandibular third molars (<21 years) and the unfused sternal end of the left clavicle (~17 years).

Sex

The individual was determined to be female based on morphology of the mandible and overall gracile skeleton.

Stature

Could not be determined due to missing elements.

Ancestry

The ancestry of the individual was determined to a mix between Asian and Euro-American based on the cranial size and morphology.

Skeletal Pathology

No pathological conditions were observed on the recovered remains.

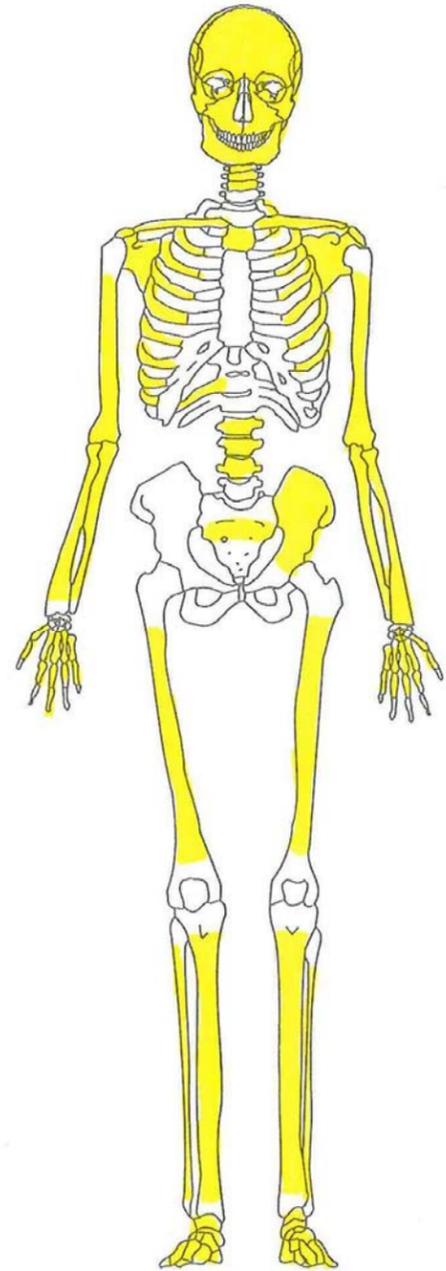
Dental Pathology

The dentition recovered had minor wear on anterior teeth and molars. Carious lesions were observed on distal interproximal surface of the left maxillary second incisor, the mesial interproximal and labial surfaces of the right maxillary second incisor, the occlusal surface of the right mandibular first premolar, the mesial interproximal and occlusal surfaces of the left mandibular second premolar, the occlusal surface of the left mandibular first molar and the mesial and distal interproximal surfaces of the right mandibular first molar. A metal filling was observed on the left mandibular first molar. Linear horizontal enamel hypoplastic grooves were observed 4.39 mm from the CEJ on the left mandibular canine and 5.43 mm from the CEJ on the right mandibular canine.

Osteological Summary for 71B

This individual is represented by a complete skull and 80% of the post-cranial skeleton. The individual was determined to be an adolescent female of mixed ancestry, with minor dental wear, carious lesions, hypoplasia and one metal dental filling.

71B
 Sex: Female
 Age: Adolescent
 Ancestry: Mixed
 Height: indeterminate
 Skeletal Pathology: none observed
 Dental Pathology: Carious Lesions, Hypoplasia, Metal Tooth Filling



71B Skeletal Elements Represented												
Element Name	Axial MNE	Left MNE	Right MNE	Indet. MNE	Element Name	Left MNE	Right MNE	Indet. MNE	Element Name	Left MNE	Right MNE	Indet. MNE
Skull					Teeth				capitate			
frontal	1				upper I1	1	1		hamate			
parietal		1	1		upper I2	1	1		Metacarpals	5	5	
occipital	1				upper C	1			Phalanges			
temporal		1	1		upper PM1	1			proximal	5	5	
sphenoid					upper PM2	1			middle			
zygomatic		1	1		upper M1				distal		1	
maxilla		1	1		upper M2				Lower Limb			
palatine					upper M3				os coxae	1		
nasal					lower I1	1	1		femur	1	1	
ethmoid	1				lower I2	1	1		tibia	1	1	
lacrimial					lower C	1	1		fibula	1	1	
vomer					lower PM1	1	1		patella			
mandible	1				lower PM2	1	1		Ankle			
hyoid					lower M1	1	1		talus	1	1	
Vertebrae					lower M2		1		calcaneus	1	1	
cervical					lower M3	1	1		navicular	1	1	
c1	1				Upper Limb				medial cun.			
c2	1				clavicle	1	1		interm. cun.	1	1	
c3-7	1				scapula	1	1		lat.cuneiform	1		
thoracic					humerus	1	1		cuboid			
t1-t12	3				radius	1	1		Metatarsals	4	4	
lumbar					ulna	1	1		Phalanges			
l1-5	3				Wrist				proximal	5	1	
sacral					scaphoid				middle			
s1	1				lunate				distal			
s2-5					triquetrum	1						
coccyx					pisiform							
Sternum	1				trapezium	1						
Ribs		7	10		trapezoid							

Figure 3.72. Skeletal Summary 71B

RECOVERY 72B

Mortuary Attributes

Burial Orientation

The burial was oriented southwest-northeast.

Coffin Shape and Size

The remnants of the coffin and/or distinct outline of differently colored soil indicated that the coffin was rectangular in shape. It was 46 inches (116.84 cm) long and ten inches (25.4 cm) wide. One fragment of coffin wood with remnants of cream or yellow paint was recovered.

Hardware

Four infant's swing bail handles, five thumbscrews, five escutcheons, a decoration in the form of a flower basket and a stamped tin coffin stud were recovered. Four non-diagnostic nail fragments were discarded.

Cultural Attributes

Clothing

One ceramic, four-hole, dish-style button was recovered.

Other Personal Artifacts

A black, pink, blue and grey glass slag marble was recovered.

Other Inclusions or Offerings

No other inclusions or offerings were recovered.

Relevant Field Notes

The recovery was found during manual exploration on 9/1/05 of the areas on either side of Recovery B74, which was found during initial grading on 6/23/05.

Summary and Estimated Date of Burial

The burial artifacts are suggestive of a child burial. These include the infant's swing bails, the flower basket decoration and the inclusion of a marble. If the burial was oriented like surrounding burials, the marble would have been placed at the head.

Prosser process buttons were manufactured between 1849 and 1910, while the interment dates of the cemetery were between 1879 and 1922. The estimated date of burial is between 1879 and 1910.

Osteological Attributes

No bone was observed or recovered.

RECOVERY 73B

Mortuary Attributes

Burial Orientation

The burial was oriented with the head to the southwest and the feet to the northeast.

Coffin Shape and Size

The remnants of the coffin were heavily impacted, hindering the accurate determination of shape and size.

Hardware

One infant's swing bail handle, one decorative lug and one lotus blossom ornament were recovered.

Cultural Attributes

Clothing

Four ceramic, four-hole, dish-style buttons were recovered.

Other Personal Artifacts

No other personal artifacts were recovered.

Other Inclusions or Offerings

No other inclusions or offerings were recovered.

Summary and Estimated Date of Burial

This burial has been determined to be Chinese based on the decorative lug and lotus ornament, unique to Chinese coffins, recovered. Based on the handle this was an infant burial. The western-style buttons suggest that the individual was buried in non-traditional attire.

Prosser process buttons were manufactured between 1849 and 1910 while the interment dates of the cemetery were between 1879 and 1922. The estimated date of burial is between 1879 and 1910.

Osteological Attributes

Inventory and Preservation

This individual is represented by radial shaft fragments (Figure 3.73). Bone is in poor condition and friable.

Age

Could not be determined due to missing elements.

Sex

Could not be determined due to missing elements.

Stature

Could not be determined due to missing elements.

Ancestry

Could not be determined due to missing elements.

Skeletal Pathology

No pathological conditions were observed on the recovered remains.

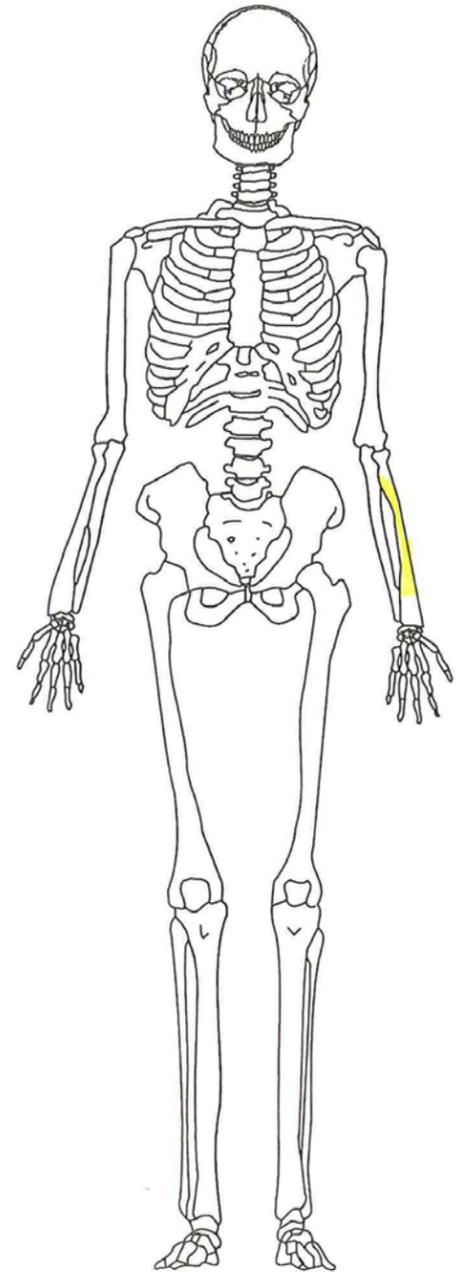
Dental Pathology

Could not be determined due to missing elements.

Osteological Summary for 73B

This individual was represented by a radial shaft and the biological profile could not be determined due to missing elements.

73B
 Sex: indeterminate
 Age: indeterminate
 Ancestry: indeterminate
 Height: indeterminate
 Skeletal Pathology: none observed
 Dental Pathology: indeterminate



73B Skeletal Elements Represented												
Element	Axial	Left	Right	Indet.	Element	Left	Right	Indet.	Element	Left	Right	Indet.
Name	MNE	MNE	MNE	MNE	Name	MNE	MNE	MNE	Name	MNE	MNE	MNE
Skull					Teeth				capitate			
frontal					upper I1				hamate			
parietal					upper I2				Metacarpals			
occipital					upper C				Phalanges			
temporal					upper PM1				proximal			
sphenoid					upper PM2				middle			
zygomatic					upper M1				distal			
maxilla					upper M2				Lower Limb			
palatine					upper M3				os coxae			
nasal					lower I1				femur			
ethmoid					lower I2				tibia			
lacrimial					lower C				fibula			
vomer					lower PM1				patella			
mandible					lower PM2				Ankle			
hyoid					lower M1				talus			
Vertebrae					lower M2				calcaneus			
cervical					lower M3				navicular			
c1					Upper Limb				medial cun.			
c2					clavicle				interm. cun.			
c3-7					scapula				lat.cuneiform			
thoracic					humerus				cuboid			
t1-t12					radius			1	Metatarsals			
lumbar					ulna				Phalanges			
l1-5					Wrist				proximal			
sacral					scaphoid				middle			
s1					lunate				distal			
s2-5					triquetrum							
coccyx					pisiform							
Sternum					trapezium							
Ribs					trapezoid							

Figure 3.73. Skeletal Summary 73B

RECOVERY 74B

Mortuary Attributes

Burial Orientation

The burial was oriented with the head to the southwest and the feet to the northeast.

Coffin Shape and Size

The remnants of the coffin and/or distinct outline of differently colored soil indicated that the coffin was rectangular in shape. It was 23 inches (58.42 cm) long and 8 inches (20.32 cm) wide. Four fragments of badly decomposed coffin wood with remnants of red paint were found embedded in the matrix.

Hardware

Three thumbscrews and escutcheons were recovered. Seven stamped tin coffin studs and two tack heads were found. Four non-diagnostic nail fragments were discarded.

Cultural Attributes

Clothing

No clothing-related artifacts were recovered.

Other Personal Artifacts

No other personal artifacts were recovered.

Other Inclusions or Offerings

No other inclusions or offerings were recovered.

Summary and Estimated Date of Burial

This burial has been classified as Chinese based on the red-painted wood. The dimensions of the coffin suggest an infant burial.

No artifacts were recovered that could accurately estimate the date of burial. The date of burial is estimated to be between the interment dates of the cemetery, 1879 to 1922.

Osteological Attributes

Inventory and Preservation

This individual is represented by bone too decomposed for identification or analysis.

Age

Could not be determined due to missing elements.

Sex

Could not be determined due to missing elements.

Stature

Could not be determined due to missing elements.

Ancestry

Could not be determined due to missing elements.

Skeletal Pathology

Could not be determined due to missing elements.

Dental Pathology

Could not be determined due to missing elements.

Osteological Summary for 74B

This individual is represented by decomposed bone, which could not be identified and the biological profile could not be determined.

RECOVERY 75B

Mortuary Attributes

Burial Orientation

The burial was oriented with the head to the southwest and the feet to the northeast.

Coffin Shape and Size

The remnants of the coffin and/or distinct outline of differently colored soil indicated that the coffin was hexagonal in shape. It was 38 inches (96.52 cm) long, 10 inches (25.4 cm) at its maximum width and 6 inches (12.7 cm) at its minimum width. Three fragments of badly decomposed wood with remnants of red paint were found embedded in the matrix.

Hardware

Three non-diagnostic nail fragments were discarded.

Cultural Attributes

Clothing

Three ceramic buttons were recovered, two four-hole, pie crust-style buttons and one gaiter-style button with a ferrous shank.

Other Personal Artifacts

No other personal artifacts were recovered.

Other Inclusions or Offerings

No other inclusions or offerings were recovered.

Summary and Estimated Date of Burial

This burial has been classified Chinese based on the red-painted wood recovered. The dimensions suggest a child burial. Both are supported by the skeletal elements which are of Asian ancestry and 4-6 years. The buttons suggest that the individual was buried in western-style attire.

Prosser process buttons were manufactured between 1849 and 1910, while the interment dates of the cemetery were between 1879 and 1922. The estimated date of burial is between 1879 and 1910.

Osteological Attributes

Inventory and Preservation

This individual is represented by a partial cranium, deciduous and permanent dentition and limb bones (Figure 3.74). The bone is in poor condition and fragmented.

Age

The age of this individual was determined to be a child based on the crown and root development of the permanent dentition. The left and right maxillary first incisors had complete crown development. The left and right maxillary first molars had 50% completed root development and the second molars had 75% completed crown development (4-6 years).

Sex

Could not be determined due to missing elements.

Stature

Could not be determined due to missing elements.

Ancestry

The individual's ancestry was determined to be Asian based on the presence of shovel shaped incisors.

Skeletal Pathology

No pathological conditions were observed on the recovered remains.

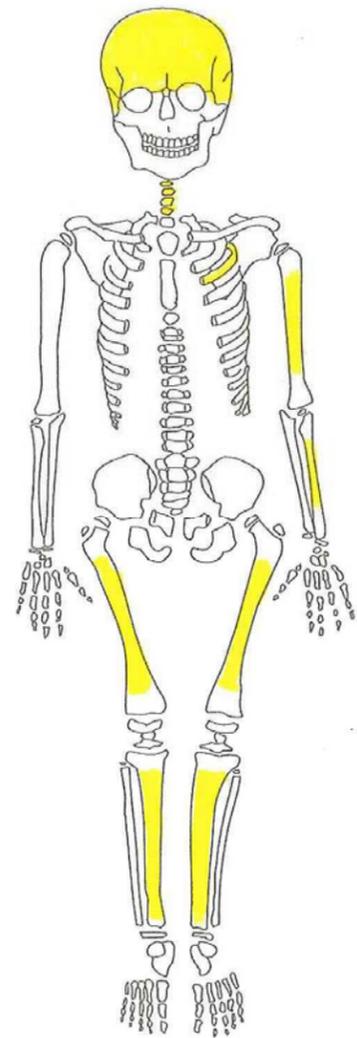
Dental Pathology

No pathological conditions were observed on the recovered remains.

Osteological Summary for 75B

This individual is represented by a fragmented cranium, dentition and limb bones. The individual was determined to be a child of Asian ancestry.

75B
 Sex: indeterminate
 Age: Child
 Ancestry: Asian
 Height: indeterminate
 Skeletal Pathology: none observed
 Dental Pathology: none observed



75B Skeletal Elements Represented												
Element Name	Axial MNE	Left MNE	Right MNE	Indet. MNE	Element Name	Left MNE	Right MNE	Indet. MNE	Element Name	Left MNE	Right MNE	Indet. MNE
Skull					Teeth				capitate			
frontal	1				upper I1	1	1		hamate			
parietal		1	1		upper I2		1		Metacarpals			
occipital	1				upper C	1	1		Phalanges			
temporal		1	1		upper PM1				proximal			
sphenoid	1				upper PM2				middle			
zygomatic					upper M1	1	1		distal			
maxilla					upper M2	1	1		Lower Limb			
palatine					upper M3				os coxae			
nasal					lower I1	1	1		femur	1	1	
ethmoid	1				lower I2				tibia	1	1	
lacrimial					lower C				fibula			
vomer					lower PM1				patella			
mandible					lower PM2				Ankle			
hyoid					lower M1	1	1		talus			
Vertebrae					lower M2	1	1		calcaneus			
cervical					lower M3				navicular			
c1	1				Upper Limb				medial cun.			
c2					clavicle				interm. cun.			
c3-7	2				scapula				lat.cuneiform			
thoracic					humerus			1	cuboid			
t1-t12					radius			1	Metatarsals			
lumbar					ulna				Phalanges			
l1-5					Wrist				proximal			
sacral					scaphoid				middle			
s1					lunate				distal			
s2-5					triquetrum							
coccyx					pisiform							
Sternum					trapezium							
Ribs				1	trapezoid							

Figure 3.74. Skeletal Summary 75B

RECOVERY 76B

Mortuary Attributes

Burial Orientation

The burial was oriented with the head to the southwest and the feet to the northeast.

Coffin Shape and Size

The remnants of the coffin and/or distinct outline of differently colored soil indicated that the coffin was hexagonal in shape. It was 76 inches (193.04 cm) long, 19 inches (48.26 cm) at its maximum width and 9 inches (22.86 cm) at its minimum width. Two fragments of non-diagnostic wood were discarded.

Hardware

Twelve non-diagnostic nail fragments were discarded.

Cultural Attributes

Clothing

One ferrous, shank-style button was recovered.

Other Personal Artifacts

No other personal artifacts were recovered.

Other Inclusions or Offerings

One fragment of a porcelain dish with a cobalt transferware pattern was found on the surface.

Relevant Field Notes

This was the first intact recovery found and excavated. It was found on 6/23/05 bringing grading activities to a halt. Data recovery excavation did not begin until 8/30/05.

Summary and Estimated Date of Burial

No artifacts were recovered that could accurately estimate the date of burial. The date of burial is estimated to be between the interment dates of the cemetery, 1879 to 1922.

Osteological Attributes

Inventory and Preservation

The minimum number of individuals for this recovery is two based on three radii and three fibulae. Individual A is represented by 75% of the post-cranial skeleton consisting of nearly complete upper

and lower limbs, a few ribs and mostly thoracic and lumbar vertebrae (Figure 3.75). Individual B is represented by a radius and fibula. The bone is in fair condition, but friable.

Age

The age of Individual A was determined to be a middle adult based on the auricular surfaces of the os coxae (35-44 years).

Sex

The sex of Individual A was determined to be male based on the greater sciatic notches of the os coxae and the vertical diameter of the left femoral head (50.90 mm).

Stature

The height of Individual A was calculated to be 5 feet and 6.6 inches (169.24 cm) based on the length of the left femur.

Ancestry

Could not be determined due to missing elements.

Skeletal Pathology

Degenerative disc disease in Individual A was observed in the form of vascular etching on the interproximal surfaces of two adjacent thoracic vertebral bodies, which is indicative of stress or trauma to the intervertebral discs.

Dental Pathology

Could not be determined due to missing elements.

Osteological Summary for 76B

The minimum number of individuals for this recovery is two. Individual A is represented by the post-cranial skeleton and determined to be middle adult male with degenerative disc disease. The height was calculated to be 5 feet and 6.6 inches. Individual B is represented by a radius and fibula.

76Ba

Sex: Male

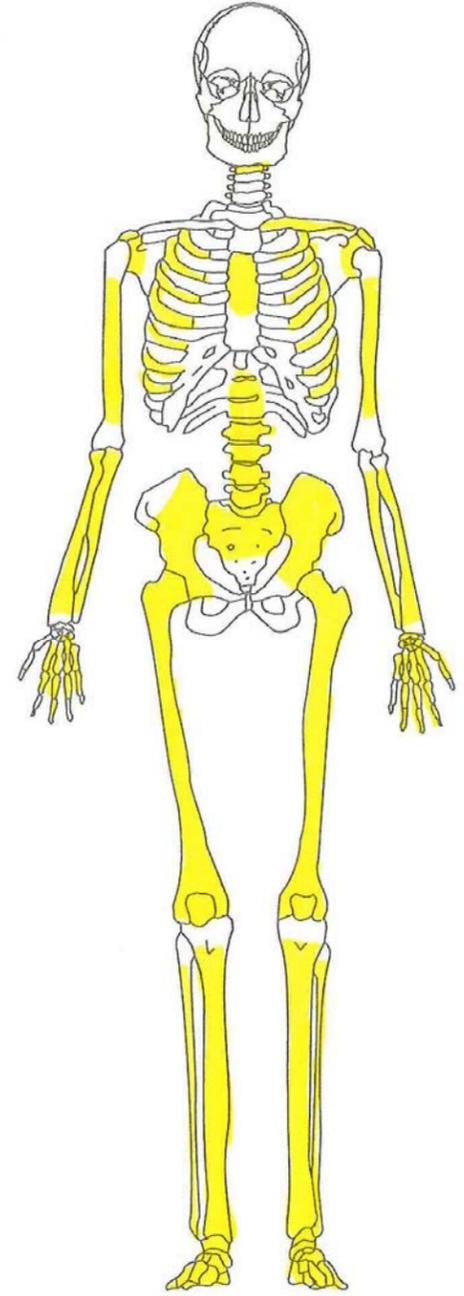
Age: Middle Adult

Ancestry: Indeterminate

Height: 5' 6.6" (169.24 cm)

Skeletal Pathology: Degenerative Disc Disease

Dental Pathology: Indeterminate



76Ba Skeletal Elements Represented												
Element Name	Axial MNE	Left MNE	Right MNE	Indet. MNE	Element Name	Left MNE	Right MNE	Indet. MNE	Element Name	Left MNE	Right MNE	Indet. MNE
Skull					Teeth				capitate	1		
frontal					upper I1				hamate		1	
parietal					upper I2				Metacarpals	5	4	
occipital					upper C				Phalanges			
temporal					upper PM1				proximal			7
sphenoid					upper PM2				middle			6
zygomatic					upper M1				distal			1
maxilla					upper M2				Lower Limb			
palatine					upper M3				os coxae	1	1	
nasal					lower I1				femur	1	1	
ethmoid					lower I2				tibia	1	1	
lacrimial					lower C				fibula	2	1	
vomer					lower PM1				patella	1	1	
mandible					lower PM2				Ankle			
hyoid					lower M1				talus	1	1	
Vertebrae					lower M2				calcaneus	1	1	
cervical	1				lower M3				navicular	1	1	
c1					Upper Limb				medial cun.	1	1	
c2					clavicle	1			interm. cun.	1	1	
c3-7					scapula	1	1		lat.cuneiform	1		
thoracic					humerus	1	1		cuboid		1	
t1-t12	11				radius	2	1		Metatarsals	5	5	
lumbar					ulna	1	1		Phalanges			
l1-5	5				Wrist				proximal	1	1	4
sacral					scaphoid		1		middle			
s1	1				lunate	1	1		distal			1
s2-5	1				triquetrum							
coccyx					pisiform							
Sternum	1				trapezium		1					
Ribs		6	7	1	trapezoid							

Figure 3.75. Skeletal Summary 76Ba

RECOVERY 77B

Mortuary Attributes

Burial Orientation

The burial was oriented southwest-northeast.

Coffin Shape and Size

The burial was heavily impacted, hindering an accurate determination of shape and size. The intact portion was 32 inches (81.28 cm) long and 12 inches (30.48 cm) wide.

Hardware

No hardware was recovered.

Cultural Attributes

Clothing

No clothing-related artifacts were recovered.

Other Personal Artifacts

No other personal artifacts were recovered.

Other Inclusions or Offerings

No other inclusions or offerings were recovered.

Summary and Estimated Date of Burial

No artifacts were recovered that could accurately estimate the date of burial. The date of burial is estimated to be between the interment dates of the cemetery, 1879 to 1922.

Osteological Attributes

No bone was observed or recovered.

RECOVERY 78B**Mortuary Attributes****Burial Orientation**

The burial was oriented with the head to the southwest and the feet to the northeast.

Coffin Shape and Size

The remnants of the coffin and/or distinct outline of differently colored soil indicated that the coffin was hexagonal in shape. It was 75 inches (190.5 cm) long, 18 inches (45.72 cm) at its maximum width and 9 inches (22.86 cm) at its minimum width.

Hardware

Six non-diagnostic nail fragments were discarded.

Cultural Attributes**Clothing**

One non-ferrous buckle was recovered. Four ferrous, fabric-covered buttons with non-ferrous rivets attached were recovered, as well as three non-ferrous, rimmed buttons with incised lines around the center and the mark THE/BEST. Four ceramic, four-hole, dish-style buttons in three sizes were also recovered.

Other Personal Artifacts

No other personal artifacts were recovered.

Other Inclusions or Offerings

Seven glass bottle fragments were found on the surface of the north end of the burial: one amber Export-style beer bottle produced on a turn mold, with remnants of a paper label on the neck; one amber beer, wine or ale bottle fragment produced on a turn mold; one amber bottle fragment with a ring-style finish, unidentified contents and manufacture; one black brandy or wine bottle with a mineral-style finish and unidentified manufacture; one medium olive-green wine or champagne bottle base produced on a turn mold; one forest-green wine or champagne bottle base produced on a turn mold; one light yellow-amber bottle base fragment with unidentified contents and manufacture and with the mark HH embossed on the base. Thirteen additional glass bottle fragments were found on the surface: one olive-green bottle fragment with unidentified contents and manufacture; two medium olive-green wine or champagne bottle champagne-style finishes of unidentified manufacture; seven medium olive-green bottle fragments with unidentified contents and manufacture; one yellow amber beer bottle fragment with an embossed Anheuser-Busch logo, produced on an automatic bottle machine; one light aqua-green bottle fragment with unidentified contents and manufacture; and one dark olive-green bottle base with unidentified contents and manufacture.

Five ceramic fragments were found at the surface (below the grass however): one porcelain dish fragment of Japanese origin with a celadon glaze and a floral design, three rim fragments of one stoneware rice bowl with the Bamboo pattern and a fragment of a Euro-American porcelain dish. Finally, a blue milkglass fragment of a decorative piece was recovered.

Relevant Field Notes

The recovery was found near an existing drainage pipe trench. The recovery was removed in a block of matrix from the pelvis to the skull, with the lower limbs removed individually before hand.

Summary and Estimated Date of Burial

This burial has been classified as Chinese based on the Japanese and Chinese ceramics recovered from the surface. The buckle and the buttons suggest that the individual was buried in western-style attire.

The glass and ceramics found at the surface could have been left there from the date of interment (the black glass dates to before 1880) to years later (the Anheuser-Busch bottle was manufactured after the 1930s). However, the majority of the bottles were produced on a turn mold between 1890 and 1915. The Prosser process buttons were manufactured between 1849 and 1910, while the interment dates of the cemetery were between 1879 and 1922. The estimated date of burial is between 1879 and 1910.

Osteological Attributes**Inventory and Preservation**

This individual is represented by a nearly complete skull and 75% of the post-cranial skeleton (Figure 3.76). The skull is composed of a complete cranial vault, facial bones and mandible, which are in good condition, but fragmented. The upper and lower limb bones are in fair condition, but fragmented. The ribs, os coxa and vertebrae recovered are in poor condition and fragmented.

Age

The age of the individual was determined to be middle to old adult based on the closure of the external cranial vault sutures (40-61 years) and the presence of osteoarthritis (>40 years).

Sex

The sex of the individual was determined to be male based on the morphology of the skull, the vertical diameter of the right femoral head (47.91 mm) and overall robusticity of muscle attachments. The cranial indicators used were the nuchal crest, mastoid processes, supraorbital margins, glabella and mental eminence.

Stature

The height of the individual was calculated to be 5 feet and 6.3 inches (168.45 cm) based on the right femur.

Ancestry

Could not be determined due to missing elements.

Skeletal Pathology

A small area of periosteal bone formation approximately 21.28 mm in length was observed on the right frontal bone, superior to the temporal lines. The bone appeared smooth indicating the trauma

was healed at the time of death. Healed bone formation was also observed surrounding the inner cavity of the left maxilla sinus, probably indicating a previous infection.

Osteoarthritis in the form of lipping was observed on many joint surfaces recovered including the left and right elbow joint, left knee, ribs and vertebrae. Extensive spicule formation was observed on the left trochlea of the humerus and the left and right radial heads and tuberosities of the radii. A sharp ridge of osteophytic lipping was observed on the trochlear notches of the left and right ulnae. In addition, extensive spicule formation was observed on the proximal and distal joint surfaces on the right first metacarpal. The distal condyles on the left femur exhibited osteophytic lipping around their surfaces. Two heads of indeterminate ribs also had extensive spicule formation. Ankylosis was observed by the fusion of the right inferior articular facet of the third cervical vertebra to the superior facet of the fourth cervical vertebra.

Dental Pathology

The maxillary incisors and canines were lost antemortem. Extensive wear was observed on the teeth recovered, mainly the mandibular incisors, canines and premolars. Carious lesions were observed on the mesial interproximal surface of the left mandibular first incisor, the distal interproximal surface of the right mandibular first premolar and the mesial interproximal surface of the right mandibular second premolar.

Osteological Summary for 78B

This individual is represented by a relatively complete skeleton and determined to be a 5 foot, 6.3 inch middle to old adult male. There was evidence of trauma to the cranium and a probable maxillary sinus infection. This individual exhibited osteoarthritis, antemortem tooth loss, extensive dental wear and carious lesions.

78B

Sex: Male

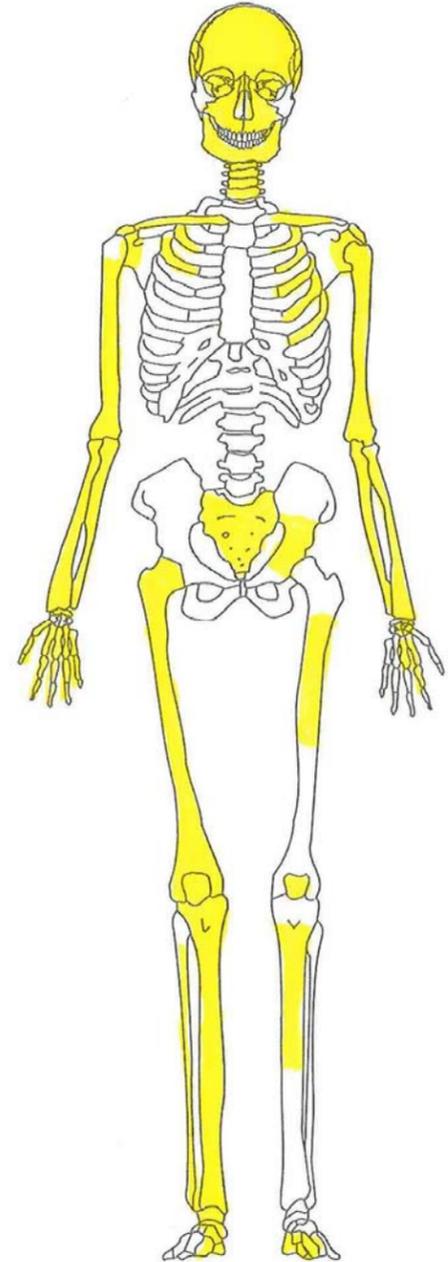
Age: Middle to Old Adult

Ancestry: indeterminate

Height: 5 feet and 6.3 inches (168.45 cm)

Skeletal Pathology: Periosteal Bone Formation, Osteoarthritis, Vertebral Fusion

Dental Pathology: Antemortem Tooth Loss, Carious Lesions, Extensive Wear



78B Skeletal Elements Represented												
Element Name	Axial MNE	Left MNE	Right MNE	Indet. MNE	Element Name	Left MNE	Right MNE	Indet. MNE	Element Name	Left MNE	Right MNE	Indet. MNE
Skull					Teeth				capitate			
frontal	1				upper I1				hamate	1	1	
parietal		1	1		upper I2				Metacarpals	2	5	
occipital	1				upper C				Phalanges			
temporal		1	1		upper PM1	1			proximal			6
sphenoid	1				upper PM2				middle			4
zygomatic					upper M1	1			distal			
maxilla		1	1		upper M2				Lower Limb			
palatine					upper M3				os coxae	1		
nasal		1	1		lower I1	1			femur	1	1	
ethmoid					lower I2	1	1		tibia	1	1	
lacrimial					lower C	1	1		fibula		1	
vomer					lower PM1	1	1		patella	1	1	
mandible	1				lower PM2		1		Ankle			
hyoid	1				lower M1				talus		1	
Vertebrae					lower M2				calcaneus		1	
cervical					lower M3				navicular			
c1	1				Upper Limb				medial cun.		1	
c2	1				clavicle	1	1		interm. cun.	1	1	
c3-7	5				scapula	1	1		lat.cuneiform	1		
thoracic					humerus	1	1		cuboid		1	
t1-t12	5				radius	1	1		Metatarsals	2	1	
lumbar					ulna	1	1		Phalanges			
l1-5					Wrist				proximal			3
sacral	4				scaphoid				middle			
s1					lunate				distal			
s2-5					triquetrum							
coccyx					pisiform							
Sternum					trapezium	1						
Ribs		1	2	4	trapezoid							

Figure 3.76. Skeletal Summary 78B

RECOVERY 79B

Mortuary Attributes

Burial Orientation

The burial was oriented with the head to the southwest and the feet to the northeast.

Coffin Shape and Size

Shape and size were indeterminate as only a portion was present. Measurements were not taken.

Hardware

Seven non-diagnostic nail fragments were discarded.

Cultural Attributes

Clothing

Eight Chinese-style ball buttons were recovered beside the right humerus and right innominate.

Other Personal Artifacts

No other personal artifacts were recovered.

Other Inclusions or Offerings

No other inclusions or offerings were recovered.

Summary and Estimated Date of Burial

This burial has been determined to be Chinese based on the Chinese-style buttons recovered. The Chinese-style buttons suggest that the individual was buried in traditional attire.

No artifacts were recovered that could accurately estimate the date of burial. The date of burial is estimated to be between the interment dates of the cemetery, 1879 to 1922.

Osteological Attributes

Inventory and Preservation

This individual is represented by a few various fragments of the post-cranial skeleton (Figure 3.77). Fragments of the humerus, radius, femur and os coxa were recovered in poor condition.

Age

The age of the individual was determined to be an adolescent based on the complete fusion of the right femoral head (>15 years) and the incomplete development of the length and diameter of the femoral shaft (<21 years).

Sex

Could not be determined due to missing elements.

Stature

Could not be determined due to missing elements.

Ancestry

Could not be determined due to missing elements.

Skeletal Pathology

No pathological conditions were observed on the recovered remains.

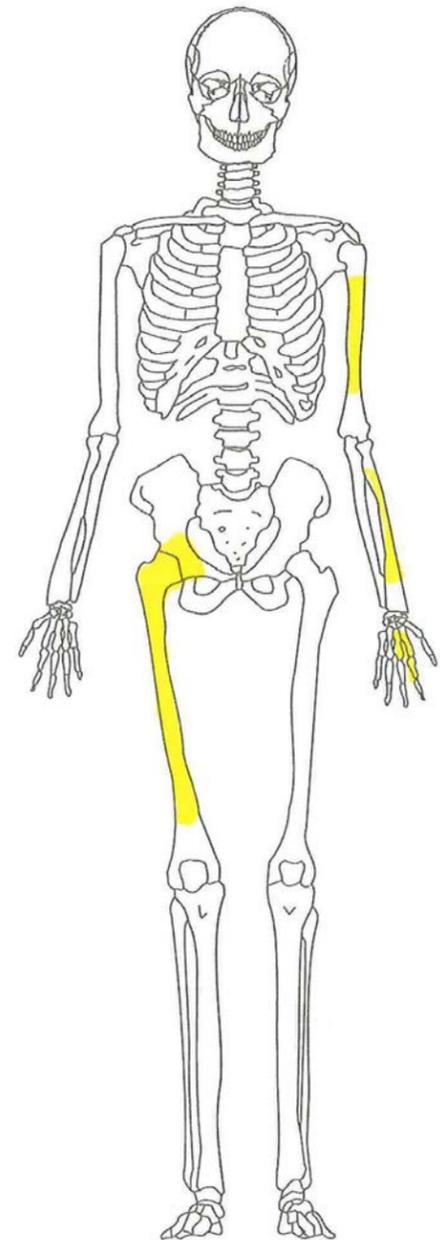
Dental Pathology

Could not be determined due to missing elements.

Osteological Summary for 79B

This individual is represented by a few various fragments including the right femur and determined to be an adolescent.

79B
 Sex: indeterminate
 Age: Adolescent
 Ancestry: indeterminate
 Height: indeterminate
 Skeletal Pathology: none observed
 Dental Pathology: indeterminate



79B Skeletal Elements Represented												
Element	Axial	Left	Right	Indet.	Element	Left	Right	Indet.	Element	Left	Right	Indet.
Name	MNE	MNE	MNE	MNE	Name	MNE	MNE	MNE	Name	MNE	MNE	MNE
Skull					Teeth				capitate			
frontal					upper I1				hamate			
parietal					upper I2				Metacarpals			2
occipital					upper C				Phalanges			
temporal					upper PM1				proximal			1
sphenoid					upper PM2				middle			
zygomatic					upper M1				distal			
maxilla					upper M2				Lower Limb			
palatine					upper M3				os coxae		1	
nasal					lower I1				femur		1	
ethmoid					lower I2				tibia			
lacrima					lower C				fibula			
vomer					lower PM1				patella			
mandible					lower PM2				Ankle			
hyoid					lower M1				talus			
Vertebrae					lower M2				calcaneus			
cervical					lower M3				navicular			
c1					Upper Limb				medial cun.			
c2					clavicle				interm. cun.			
c3-7					scapula				lat.cuneiform			
thoracic					humerus			1	cuboid			
t1-t12					radius			1	Metatarsals			
lumbar					ulna				Phalanges			
l1-5					Wrist				proximal			
sacral					scaphoid				middle			
s1					lunate				distal			
s2-5					triquetrum							
coccyx					pisiform							
Sternum					trapezium							
Ribs					trapezoid							

Figure 3.77. Skeletal Summary 79B

RECOVERY 80B

Mortuary Attributes

Burial Orientation

The burial was oriented southwest-northeast.

Coffin Shape and Size

The burial was heavily impacted, hindering an accurate determination of shape and size. The maximum width was determined to be 18 inches (45.72 cm).

Hardware

No hardware was recovered.

Cultural Attributes

Clothing

One Chinese-style ball button and two fragmented leather shoes with non-ferrous screws were recovered.

Other Personal Artifacts

No other personal artifacts were recovered.

Other Inclusions or Offerings

No other inclusions or offerings were recovered.

Summary and Estimated Date of Burial

This burial has been determined to be Chinese based on the Chinese-style buttons recovered. The Chinese-style buttons and the leather shoes suggest that the individual was buried in a combination of traditional and non-traditional attire

No artifacts were recovered that could accurately estimate the date of burial. The date of burial is estimated to be between the interment dates of the cemetery, 1879 to 1922.

Osteological Attributes

No bone was observed or recovered.

RECOVERY 81B

Mortuary Attributes

Burial Orientation

The burial was oriented southwest-northeast.

Coffin Shape and Size

A partial distinct outline of differently colored soil was observed but no measurements were taken.

Hardware

No hardware was recovered.

Cultural Attributes

Clothing

No clothing-related artifacts were recovered.

Other Personal Artifacts

No other personal artifacts were recovered.

Other Inclusions or Offerings

No other inclusions or offerings were recovered.

Summary and Estimated Date of Burial

No artifacts were recovered that could accurately estimate the date of burial. The date of burial is estimated to be between the interment dates of the cemetery, 1879 to 1922.

Osteological Attributes

No bone was observed or recovered.

RECOVERY 82B

Mortuary Attributes

Burial Orientation

The burial was oriented southwest-northeast.

Coffin Shape and Size

The coffin shape could not be determined due to the fact that only partial baseboards were present. The portion present indicated it was 53 inches (134.62 cm) long, 15 inches (38.1 cm) at its maximum width and 9 inches (22.86 cm) at its minimum width.

Hardware

Five non-diagnostic nail fragments were discarded.

Cultural Attributes

Clothing

Two ceramic four-hole, dish-style buttons were recovered.

Other Personal Artifacts

No other personal artifacts were recovered.

Other Inclusions or Offerings

No other inclusions or offerings were recovered.

Summary and Estimated Date of Burial

Prosser process buttons were manufactured between 1849 and 1910, while the interment dates of the cemetery were between 1879 and 1922. The estimated date of burial is between 1879 and 1910.

Osteological Attributes

No bone was observed or recovered.

RECOVERY 83B

Mortuary Attributes

Burial Orientation

The burial was oriented with the head to the southwest and the feet to the northeast.

Coffin Shape and Size

The remnants of the coffin and/or distinct outline of differently colored soil indicated that the coffin was hexagonal in shape. It was 68 inches (172.72 cm) long, 17 inches (43.18 cm) at its maximum width and 10 inches (25.4 cm) at its minimum width.

Hardware

Five swing bail handles in two different styles, one short bar handle, five thumbscrews in two different styles, four escutcheons and two fragments of stamped tin coffin studs were recovered. Three non-diagnostic nail fragments were discarded.

Cultural Attributes

Clothing

Two Chinese-style ball buttons and one ceramic, four-hole, dish-style button were recovered.

Other Personal Artifacts

No other personal artifacts were recovered.

Other Inclusions or Offerings

A 1883 Seated Liberty dime and four Chinese wen were recovered in the area of the lower limbs. A Chinese porcelain condiment dish with the Four Seasons pattern and a hole-in-cap tin can lid were recovered.

Summary and Estimated Date of Burial

This burial has been determined to be Chinese based on the Chinese-style buttons, the Chinese coins and the condiment dish. The Chinese and western-style buttons suggest that the individual was buried in a combination of traditional and non-traditional attire.

The individual was buried after the mint date on the dime, 1883. Swing bail handles were used between the 1850s and the 1910s. The estimated date of burial is between 1883 and 1920.

Osteological Attributes

Inventory and Preservation

This individual was represented by a relatively complete skull, dentition and a few post-cranial fragments (Figure 3.78). The skull is in fair condition but fragmented. A few long bone shafts and vertebral bodies were recovered and are in poor, fragmented condition.

Age

The age of the individual was determined to be an adult based on the complete eruption of the left and right mandibular third molars (>21 years).

Sex

The sex of the individual was determined to be female based on the mastoid processes, the glabella, the mental eminence and morphology of the mandible.

Stature

Could not be determined due to missing elements.

Ancestry

The ancestry of the individual was determined to be Asian based on shovel shaped maxillary incisors.

Skeletal Pathology

Could not be determined due to missing elements.

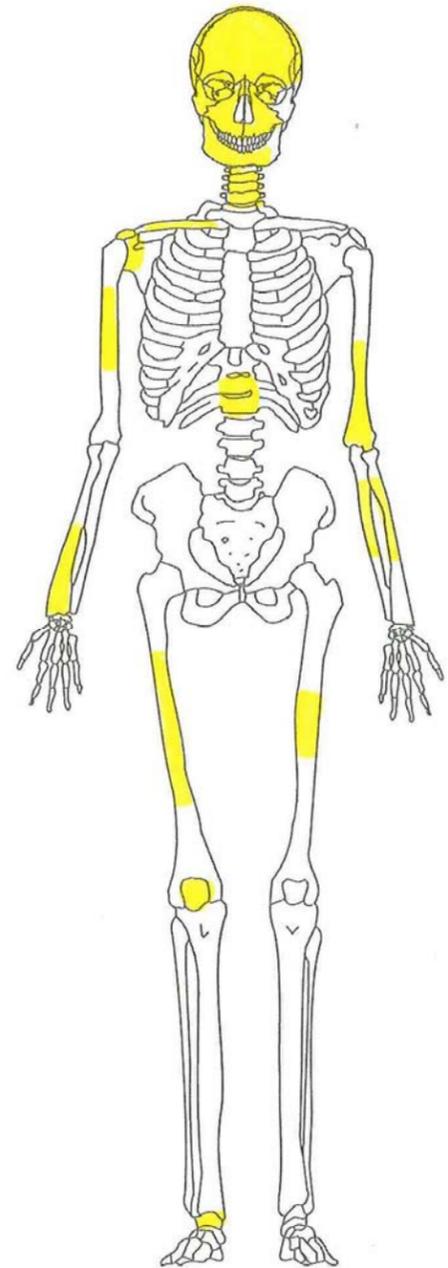
Dental Pathology

The left maxillary first molar was lost antemortem. The front teeth exhibited minor to moderate dental wear and the molars exhibited moderate wear.

Osteological Summary for 83B

This individual was mainly represented by skull fragments and dentition and determined to be an adult female of Asian ancestry with minor to moderate dental wear and antemortem tooth loss.

83B
 Sex: Female
 Age: Adult
 Ancestry: Asian
 Height: indeterminate
 Skeletal Pathology: none observed
 Dental Pathology: Antemortem Tooth Loss



83B Skeletal Elements Represented												
Element Name	Axial MNE	Left MNE	Right MNE	Indet. MNE	Element Name	Left MNE	Right MNE	Indet. MNE	Element Name	Left MNE	Right MNE	Indet. MNE
Skull					Teeth				capitate			
frontal	1				upper I1	1	1		hamate			
parietal		1	1		upper I2	1	1		Metacarpals			
occipital	1				upper C	1	1		Phalanges			
temporal		1	1		upper PM1	1	1		proximal			
sphenoid	1				upper PM2	1	1		middle			
zygomatic			1		upper M1	1			distal			
maxilla		1	1		upper M2	1	1		Lower Limb			
palatine					upper M3				os coxae			
nasal		1	1		lower I1				femur	1	1	
ethmoid					lower I2				tibia			
lacrima					lower C	1	1		fibula			
vomer					lower PM1	1	1		patella		1	
mandible	1				lower PM2	1	1		Ankle			
hyoid	1				lower M1		1		talus		1	
Vertebrae					lower M2	1	1		calcaneus			
cervical					lower M3	1	1		navicular			
c1	1				Upper Limb				medial cun.			
c2	1				clavicle		1		interm. cun.			
c3-7	5				scapula		1		lat.cuneiform			
thoracic					humerus	1	1		cuboid			
t1-t12	7				radius	1	1		Metatarsals			
lumbar					ulna	1			Phalanges			
l1-5					Wrist				proximal			
sacral					scaphoid				middle			
s1					lunate				distal			
s2-5					triquetrum							
coccyx					pisiform							
Sternum					trapezium							
Ribs					trapezoid							

Figure 3.78. Skeletal Summary 83B

RECOVERY 84B

Mortuary Attributes

Burial Orientation

The burial was oriented with the head to the southwest and the feet to the northeast.

Coffin Shape and Size

The remnants of the coffin and/or distinct outline of differently colored soil indicated that the coffin was hexagonal in shape. It was 75 inches (190.5 cm) long, 20 inches (50.8 cm) at its maximum width and 11 inches (27.94 cm) at its minimum width. Small fragments of wood with remnants of red paint were recovered.

Hardware

Six swing bail handles and four thumbscrews in two different styles were recovered. Eight fragments of stamped tin coffin studs were also recovered. One non-diagnostic nail fragment was discarded.

Cultural Attributes

Clothing

One Chinese-style ball button was recovered.

Other Personal Artifacts

No other personal artifacts were recovered.

Other Inclusions or Offerings

Two .38 caliber shells were recovered.

Summary and Estimated Date of Burial

This burial has been determined to be Chinese based on the red-painted wood and the Chinese-style button recovered. The Chinese-style button suggests that the individual was buried in traditional attire.

Swing bail handles were used between the 1850s and the 1910s, while the interment dates of the cemetery were between 1879 and 1922. The estimated date of burial is between 1879 and 1920.

Osteological Attributes

Inventory and Preservation

This individual is represented by a cranial fragment, two cervical vertebrae, two humeri, one right femur and tibia and a left mandibular third molar (Figure 3.79). The bone is in poor condition and very fragmentary and friable.

Age

The age of the individual was determined to be a young adult based on the wear and development of the left mandibular third molar (17-20 years).

Sex

Could not be determined due to missing elements.

Stature

Could not be determined due to missing elements.

Ancestry

Could not be determined due to missing elements.

Skeletal Pathology

No pathological conditions were observed on the recovered remains.

Dental Pathology

No dental pathological conditions were observed on the recovered remains.

Osteological Summary for 84B

This individual is mainly represented by various fragments and dentition and determined to be a young adult.

84B

Sex: indeterminate

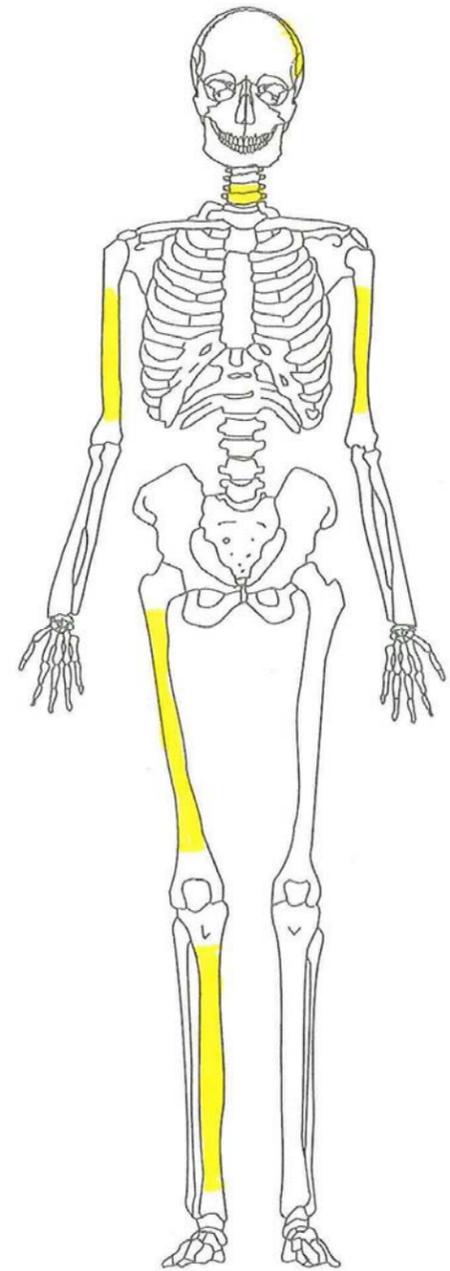
Age: Young Adult

Ancestry: indeterminate

Height: indeterminate

Skeletal Pathology: none observed

Dental Pathology: none observed



84B Skeletal Elements Represented												
Element	Axial	Left	Right	Indet.	Element	Left	Right	Indet.	Element	Left	Right	Indet.
Name	MNE	MNE	MNE	MNE	Name	MNE	MNE	MNE	Name	MNE	MNE	MNE
Skull					Teeth				capitate			
frontal					upper I1				hamate			
parietal				1	upper I2				Metacarpals			
occipital					upper C				Phalanges			
temporal					upper PM1				proximal			
sphenoid					upper PM2				middle			
zygomatic					upper M1				distal			
maxilla					upper M2				Lower Limb			
palatine					upper M3				os coxae			
nasal					lower I1				femur		1	
ethmoid					lower I2				tibia		1	
lacrima					lower C				fibula			
vomer					lower PM1				patella			
mandible					lower PM2				Ankle			
hyoid					lower M1				talus			
Vertebrae					lower M2				calcaneus			
cervical					lower M3	1			navicular			
c1					Upper Limb				medial cun.			
c2					clavicle				interm. cun.			
c3-7	2				scapula				lat.cuneiform			
thoracic					humerus	1	1		cuboid			
t1-t12					radius				Metatarsals			
lumbar					ulna				Phalanges			
l1-5					Wrist				proximal			
sacral					scaphoid				middle			
s1					lunate				distal			
s2-5					triquetrum							
coccyx					pisiform							
Sternum					trapezium							
Ribs					trapezoid							

Figure 3.79. Skeletal Summary 84B

RECOVERY 85B

Mortuary Attributes

Burial Orientation

The burial was oriented with the head to the southwest and the feet to the northeast.

Coffin Shape and Size

The remnants of the coffin and/or distinct outline of differently colored soil indicated that the coffin was hexagonal in shape. It was 72 inches (182.88 cm) long, 21 inches (53.34 cm) at its maximum width and 10 inches (25.4 cm) at its minimum width.

Hardware

Thirteen fragments of four swing bail handles, four thumbscrews and three stamped tin coffin studs, one attached to wood with remnants of red paint, were recovered.

Cultural Attributes

Clothing

Three Chinese-style ball buttons were recovered.

Other Personal Artifacts

No other personal artifacts were recovered.

Other Inclusions or Offerings

Two aqua glass bottle fragments with unidentified contents and manufacture were recovered from inside of the coffin. One stoneware fragment of a rice bowl with the Bamboo pattern was recovered. Eleven Chinese wen were recovered.

Summary and Estimated Date of Burial

This burial has been determined to be Chinese based on the remnants of red-painted wood, the Chinese-style buttons, the Chinese ceramic and the Chinese coins recovered. The Chinese-style buttons suggest that the individual was buried in traditional attire.

Swing bail handles were used between the 1850s and the 1910s, while the interment dates of the cemetery were between 1879 and 1922. The estimated date of burial is between 1879 and 1920.

Osteological Attributes

No bone was observed or recovered.

RECOVERY 86B

Mortuary Attributes

Burial Orientation

The burial was oriented with the head to the southwest and the feet to the northeast.

Coffin Shape and Size

The remnants of the coffin and/or distinct outline of differently colored soil indicated that the coffin was hexagonal in shape. It was 66 inches (167.64 cm) long, 16 inches (40.64 cm) at its maximum width and 9 inches (22.86 cm) at its minimum width.

Hardware

Two swing bail handles, one thumbscrew and a fragment of a coffin decoration representing a rose were recovered. Two non-diagnostic nail fragments were discarded.

Cultural Attributes

Clothing

No clothing-related artifacts were recovered.

Other Personal Artifacts

No other personal artifacts were recovered.

Other Inclusions or Offerings

No other inclusions or offerings were recovered.

Summary and Estimated Date of Burial

Swing bail handles were used between the 1850s and the 1910s, while the coffin decoration dates to 1881. The estimated date of burial is between 1881 and 1920.

Osteological Attributes

No bone was observed or recovered.

RECOVERY 87B

Mortuary Attributes

Burial Orientation

The burial was oriented southwest-northeast.

Coffin Shape and Size

The remnants of the coffin and/or distinct outline of differently colored soil indicated that it was heavily impacted, hindering an accurate determination of shape and size. The portion remaining was 52 inches (132.08 cm) long and the width was indeterminate.

Hardware

No hardware was recovered.

Cultural Attributes

Clothing

No clothing-related artifacts were recovered.

Other Personal Artifacts

No other personal artifacts were recovered.

Other Inclusions or Offerings

One whole, Chinese porcelain rice bowl with the Double Happiness pattern was recovered from the northwest portion of the lid.

Summary and Estimated Date of Burial

This burial has been designated as Chinese based on the rice bowl. The rice bowl also represents the only Double Happiness pattern found at the cemetery. The Double Happiness pattern occurs rarely after the 1860s, well before the cemetery began interments, thus it may have been a favorite of the deceased or a family offering.

No artifacts were recovered that could accurately estimate the date of burial. The date of burial is estimated to be between the interment dates of the cemetery, 1879 to 1922.

Osteological Attributes

No bone was observed or recovered.

RECOVERY 88B

Mortuary Attributes

Burial Orientation

The burial was oriented with the head to the southwest and the feet to the northeast.

Coffin Shape and Size

The remnants of the coffin and/or distinct outline of differently colored soil indicated that the coffin was rectangular in size. The portion remaining was 60 inches (152.4 cm) long and 20 inches (50.8 cm) wide.

Hardware

One swing bail handle, six thumbscrews and six escutcheons in two different designs were recovered. One stamped tin coffin stud was also recovered. One non-diagnostic nail fragment was discarded.

Cultural Attributes

Clothing

One ceramic, four-hole, hobnail-style button was recovered.

Other Personal Artifacts

No other personal artifacts were recovered.

Other Inclusions or Offerings

No other inclusions or offerings were recovered.

Relevant Field Notes

The severed feet and lower limb bones were found placed near the head.

Summary and Estimated Date of Burial

The legs were found severed at mid-calf and the lower legs and feet placed near the head. This suggests that the individual was cut to fit in an existing coffin, not one made for that person.

Swing bail handles were used between the 1850s and the 1910s, while the interment dates of the cemetery were between 1879 and 1922. The estimated date of burial is between the late 1879 and 1920.

Osteological Attributes

Inventory and Preservation

This individual is represented by the upper limbs and the bones of the left leg (Figure 3.80). The left and right humeri, right ulna, left femur and patella were recovered but are fragmented and in poor condition.

Age

The age of this individual was determined to be an adult based on the complete fusion of the left distal femoral epiphysis (>21 years).

Sex

The sex of this individual was determined to be male based on the epicondylar breadth of the left humerus (64.16 mm).

Stature

Could not be determined due to missing elements.

Ancestry

Could not be determined due to missing elements.

Skeletal Pathology

Osteoarthritis is present on the left elbow joint. The complete rim of the distal condyles of the left humerus exhibit a sharp ridge of osteophytic lipping. The adjacent left trochlear notch of the ulna displays extensive bone formation around the lateral aspect in order to extend the joint as a stabilizing response to repetitive stress or injury.

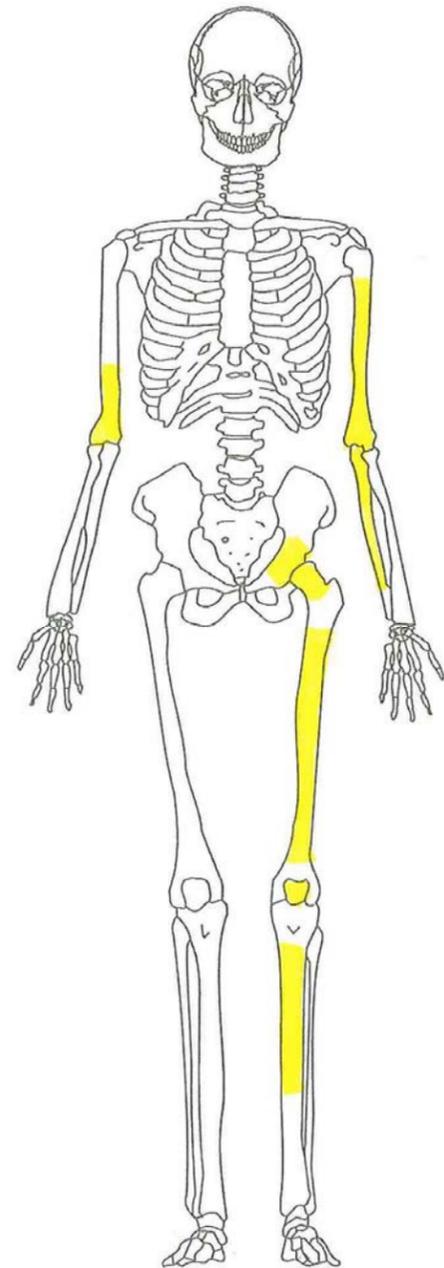
Dental Pathology

No pathological conditions were observed on the recovered remains.

Osteological Summary for 88B

This individual is represented by a limb bones and was determined to be an adult male with severe osteoarthritis.

88B
 Sex: Male
 Age: Adult
 Ancestry: indeterminate
 Height: indeterminate
 Skeletal Pathology: Osteoarthritis
 Dental Pathology: indeterminate



88B Skeletal Elements Represented												
Element	Axial	Left	Right	Indet.	Element	Left	Right	Indet.	Element	Left	Right	Indet.
Name	MNE	MNE	MNE	MNE	Name	MNE	MNE	MNE	Name	MNE	MNE	MNE
Skull					Teeth				capitate			
frontal					upper I1				hamate			
parietal					upper I2				Metacarpals			
occipital					upper C				Phalanges			
temporal					upper PM1				proximal			
sphenoid					upper PM2				middle			
zygomatic					upper M1				distal			
maxilla					upper M2				Lower Limb			
palatine					upper M3				os coxae	1		
nasal					lower I1				femur	1		
ethmoid					lower I2				tibia			1
lacrimial					lower C				fibula			
vomer					lower PM1				patella	1		
mandible					lower PM2				Ankle			
hyoid					lower M1				talus			
Vertebrae					lower M2				calcaneus			
cervical					lower M3				navicular			
c1					Upper Limb				medial cun.			
c2					clavicle				interm. cun.			
c3-7					scapula				lat.cuneiform			
thoracic					humerus	1	1		cuboid			
t1-t12					radius				Metatarsals			
lumbar					ulna	1			Phalanges			
l1-5					Wrist				proximal			
sacral					scaphoid				middle			
s1					lunate				distal			
s2-5					triquetrum							
coccyx					pisiform							
Sternum					trapezium							
Ribs					trapezoid							

Figure 3.80. Skeletal Summary 88B

RECOVERY 89B

Mortuary Attributes

Burial Orientation

The burial was oriented with the head to the southwest and the feet to the northeast.

Coffin Shape and Size

The remnants of the coffin and/or distinct outline of differently colored soil indicated that the coffin was hexagonal in shape. It was 70 inches (177.8 cm) long, 14 inches (35.56 cm) at its maximum width and 11 inches (27.94 cm) at its minimum width.

Hardware

One swing bail handle and two thumbscrews were recovered.

Cultural Attributes

Clothing

No clothing-related artifacts were recovered.

Other Personal Artifacts

No other personal artifacts were recovered.

Other Inclusions or Offerings

No other inclusions or offerings were recovered.

Summary and Estimated Date of Burial

Swing bail handles were used between the 1850s and the 1910s, while the interment dates of the cemetery were between 1879 and 1922. The estimated date of burial is between 1879 and 1920.

Osteological Attributes

Inventory and Preservation

This individual is represented by a partial skull, dentition and 90% of the post-cranial skeleton (Figure 3.81). The skull consists of the cranial vault and mandible, which are in fair condition, but fragmented. The upper and lower limb bones are in fair condition, while the ribs, vertebrae, hands and feet are in poor condition and fragmented.

Age

The age of the individual was determined to be a middle adult based on the phase of the left pubic symphysis (28-78 years) and the closure of the external cranial vault sutures (23-45 years).

Sex

The sex of the individual was determined to be male based on the morphology of the skull and pelvis and the vertical diameter of the left femoral head (51.25 mm).

Stature

The height of the individual was calculated to be 5 feet and 7.0 inches (170.29 cm) based on the left femur.

Ancestry

Could not be determined due to missing elements.

Skeletal Pathology

Cribrra orbitalia was observed on the left and right superior orbital surfaces of the frontal bone ranging from true porosity to barely discernable.

Dental Pathology

The left mandibular first molar, left and right mandibular second molars and the left and right mandibular third molars were lost antemortem. Carious lesions were observed on the mesial and distal interproximal surfaces of the right maxillary second premolar and the crown was completely destroyed from carious lesions on the right maxillary first premolar. Carious lesions were found on the distal interproximal surface on the right mandibular second premolar and on the mesial and distal interproximal, buccal and mesial-lingual cusp surfaces on the right mandibular first molar.

Hypoplasias were observed on most of the teeth recovered. Linear horizontal grooves were found at 6.11 mm and 3.94 mm from the CEJ on the right maxillary first incisor; 8.37 mm and 5.70 mm from the CEJ on the right maxillary second incisor; 8.11 mm, 6.36 mm and 3.87 mm from the CEJ on the right maxillary canine; 4.57 mm and 2.11 mm from the CEJ on the right maxillary second premolar; 4.23 mm from the CEJ on the left mandibular first incisor; 5.60 mm from the CEJ on the left mandibular second incisor; 5.10 mm from the CEJ on the right mandibular second incisor; 9.28 mm from the CEJ on the left mandibular canine; 9.24 mm from the CEJ on the right mandibular canine; 3.67 mm from the CEJ on the left mandibular first premolar; 7.03 mm and 4.30 mm from the CEJ on the right mandibular first premolar; and 2.68 mm from the CEJ on the right mandibular second premolar. Linear horizontal hypoplastic pits were found on the left and right mandibular canines and the left mandibular first premolar. A single pit was observed on the right mandibular second premolar.

Osteological Summary for 89B

This individual was represented by a fairly complete skeleton and was determined to be a middle adult male with cribrra orbitalia, antemortem tooth loss, carious lesions and hypoplasias.

89B

Sex: Male

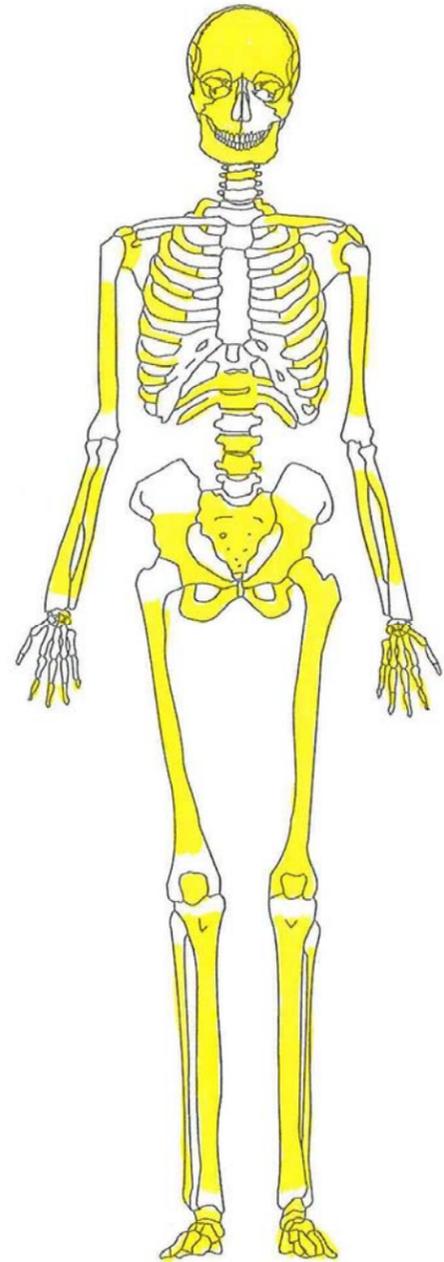
Age: Middle Adult

Ancestry: indeterminate

Height: 5' 7.0" (170.29 cm)

Skeletal Pathology: Cribra Orbitalia

Dental Pathology: Antemortem Tooth Loss, Carious Lesions, Hypoplasias



89B Skeletal Elements Represented												
Element Name	Axial MNE	Left MNE	Right MNE	Indet. MNE	Element Name	Left MNE	Right MNE	Indet. MNE	Element Name	Left MNE	Right MNE	Indet. MNE
Skull					Teeth				capitate	1	1	
frontal	1				upper I1		1		hamate			
parietal		1	1		upper I2		1		Metacarpals	5		
occipital	1				upper C		1		Phalanges			
temporal		1	1		upper PM1		1		proximal			4
sphenoid	1				upper PM2		1		middle			9
zygomatic		1	1		upper M1				distal			3
maxilla			1		upper M2				Lower Limb			
palatine					upper M3				os coxae	1	1	
nasal					lower I1	1	1		femur	1	1	
ethmoid					lower I2	1	1		tibia	1	1	
lacrimial					lower C	1	1		fibula	1	1	
vomer					lower PM1	1	1		patella	1	1	
mandible	1				lower PM2	1	1		Ankle			
hyoid					lower M1		1		talus	1	1	
Vertebrae	10				lower M2				calcaneus	1	1	
cervical					lower M3				navicular	1	1	
c1					Upper Limb				medial cun.		1	
c2	1				clavicle	1			interm. cun.	1	1	
c3-7					scapula	1	1		lat.cuneiform	1	1	
thoracic					humerus	1	1		cuboid	1	1	
t1-t12	5				radius	1	1		Metatarsals	5	5	
lumbar					ulna	1	1		Phalanges			
l1-5	2				Wrist				proximal	5	5	
sacral					scaphoid	1			middle			3
s1	1				lunate	1	1		distal			7
s2-5	4				triquetrum							
coccyx					pisiform	1						
Sternum					trapezium							
Ribs		3	6	15	trapezoid							

Figure 3.81. Skeletal Summary 89B

RECOVERY 90B

Mortuary Attributes

Burial Orientation

The burial was oriented southwest-northeast.

Coffin Shape and Size

The remnants of the coffin and/or distinct outline of differently colored soil indicated that the coffin was rectangular in shape. Size could not be determined.

Hardware

One escutcheon was recovered.

Cultural Attributes

Clothing

No clothing-related artifacts were recovered.

Other Personal Artifacts

No other personal artifacts were recovered.

Other Inclusions or Offerings

No other inclusions or offerings were recovered.

Summary and Estimated Date of Burial

No artifacts were recovered that could accurately estimate the date of burial. The date of burial is estimated to be between the interment dates of the cemetery, 1879 and 1922.

Osteological Attributes

No bone was observed or recovered.

RECOVERY 91B

Mortuary Attributes

Burial Orientation

The burial was oriented with the head to the southwest and the feet to the northeast.

Coffin Shape and Size

No coffin was observed.

Hardware

One swing bail handle was recovered.

Cultural Attributes

Clothing

Eight ceramic buttons were recovered, five four-hole, dish-style buttons, two four-hole, pie crust-style buttons with painted blue outer edges and one gaiter-style shank button with a painted blue rim.

Other Personal Artifacts

No other personal artifacts were recovered.

Other Inclusions or Offerings

No other inclusions or offerings were recovered.

Summary and Estimated Date of Burial

Prosser process buttons were manufactured between 1849 and 1910, while the interment dates of the cemetery were between 1879 and 1922. The estimated date of burial is between 1879 and 1910.

Osteological Attributes

Inventory and Preservation

This individual is represented by a relatively complete skull, dentition and upper limb bones (Figure 3.82). The skull consists of the cranial vault, mandible and a few facial bones in good condition, but fragmented. Fragments of shafts of the upper limbs were recovered in poor condition.

Age

The age of the individual was determined to be a young to middle adult based on the closure of the external cranial vault sutures (23-45 years).

Sex

The sex of the individual was determined to be female based on the mastoid processes, supraorbital margins, the glabella and mental eminence.

Stature

Could not be determined due to missing elements.

Ancestry

The ancestry of the individual was determined to be Euro-American based on the nasal morphology.

Skeletal Pathology

No pathological conditions were observed on the recovered remains.

Dental Pathology

The left maxillary canine, left maxillary first molar, left mandibular canine, left mandibular first premolar and left mandibular second molar were lost antemortem. The anterior teeth exhibited moderate dental wear and the molar exhibited extensive wear. Carious lesions were found on the occlusal surface of the left maxillary second molar, the distal interproximal surface of the right maxillary second molar, the occlusal surface of the right mandibular second molar and the mesial interproximal surface of the left third mandibular molar.

Osteological Summary for 91B

This individual was represented by a skull and upper limb bones and determined to be a young to middle adult female of Euro-American ancestry with antemortem tooth loss, carious lesions and moderate to extensive dental wear.

91B

Sex: Female

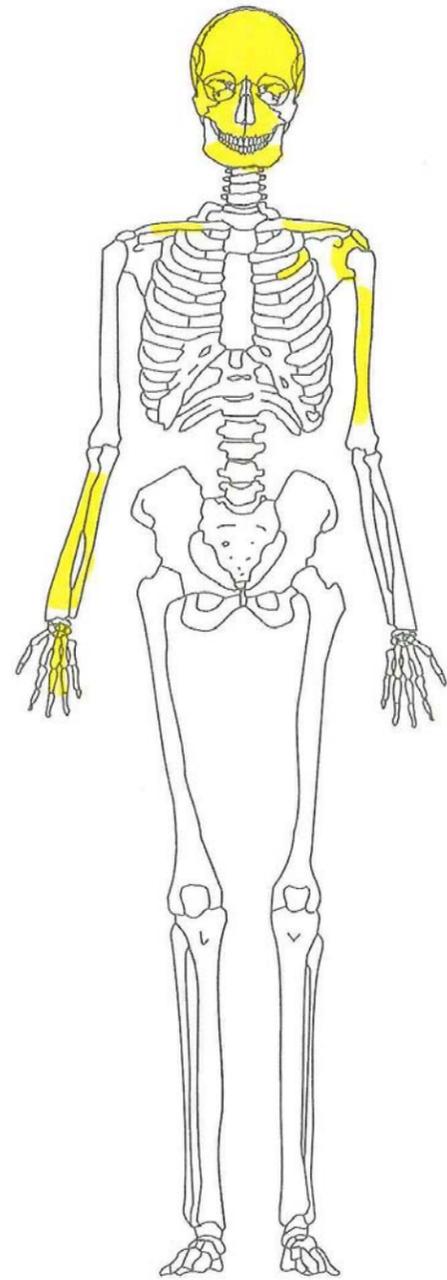
Age: Young to Middle Adult

Ancestry: Euro-American

Height: indeterminate

Skeletal Pathology: none observed

Dental Pathology: Antemortem Tooth Loss, Carious Lesions, Extensive Dental Wear



91B Skeletal Elements Represented												
Element Name	Axial MNE	Left MNE	Right MNE	Indet. MNE	Element Name	Left MNE	Right MNE	Indet. MNE	Element Name	Left MNE	Right MNE	Indet. MNE
Skull					Teeth				capitate		1	
frontal	1				upper I1	1	1		hamate			
parietal		1	1		upper I2				Metacarpals		2	
occipital	1				upper C		1		Phalanges			
temporal		1	1		upper PM1				proximal			2
sphenoid	1				upper PM2	1	1		middle			
zygomatic			1		upper M1		1		distal			
maxilla		1	1		upper M2	1			Lower Limb			
palatine			1		upper M3				os coxae			
nasal					lower I1		1		femur			
ethmoid					lower I2		1		tibia			
lacrimial					lower C		1		fibula			
vomer					lower PM1		1		patella			
mandible	1				lower PM2	1	1		Ankle			
hyoid					lower M1	1	1		talus			
Vertebrae					lower M2		1		calcaneus			
cervical					lower M3	1	1		navicular			
c1					Upper Limb				medial cun.			
c2					clavicle	1	1		interm. cun.			
c3-7					scapula	1			lat.cuneiform			
thoracic					humerus	1			cuboid			
t1-t12					radius		1		Metatarsals			
lumbar					ulna		1		Phalanges			
l1-5					Wrist				proximal			
sacral					scaphoid				middle			
s1					lunate				distal			
s2-5					triquetrum							
coccyx					pisiform							
Sternum					trapezium		1					
Ribs		1			trapezoid							

Figure 3.82. Skeletal Summary 91B

RECOVERY 92B

Mortuary Attributes

Burial Orientation

The burial was oriented with the head to the southwest and the feet to the northeast.

Coffin Shape and Size

The remnants of the coffin and/or distinct outline of differently colored soil indicated that the coffin was hexagonal in shape. It was 68 inches (172.72 cm) long, 14 inches (35.56 cm) at its maximum width and 6 inches (15.24 cm) at its minimum width.

Hardware

Five swing bail handles in two different styles and two thumbscrews were recovered.

Cultural Attributes

Clothing

One ceramic, four-hole dish-style button was recovered.

Other Personal Artifacts

No other personal artifacts were recovered.

Other Inclusions or Offerings

No other inclusions or offerings were recovered.

Summary and Estimated Date of Burial

Prosser process buttons were manufactured between 1849 and 1910, while the interment dates of the cemetery were between 1879 and 1922. The estimated date of burial is between 1879 and 1910.

Osteological Attributes

Inventory and Preservation

This individual was represented by a complete skull and 85% of the post-cranial skeleton (Figure 3.83). The cranial vault is intact but the face is broken off at the zygomatics and the mandible is complete. The post-cranial skeleton is mostly present except for the ribs. The remains are in good condition but the long bones are fragments.

Age

The age of the individual was determined to be a middle adult based on the closure of the external cranial vault sutures (31-60 years).

Sex

The sex of the individual was determined to be female based on the mental eminence, the right mastoid process and mandibular morphology.

Stature

Could not be determined due to fragmented elements.

Ancestry

The ancestry of the individual was determined to be a mix between Asian based on sagittal keeling, dental palate and Euro-American based on the presence of the metopic suture and nasal and cranial morphology.

Skeletal Pathology

Periosteal bone formation with hyper-vascular grooves was observed on the left and right clavicles, humeri, right radius, right ulna, femora, tibiae and fibulae, probably due to a systemic infection but was healed at the time of death. Two lumbar bodies exhibited osteoarthritis in the form of lipping and extensive spicule formation.

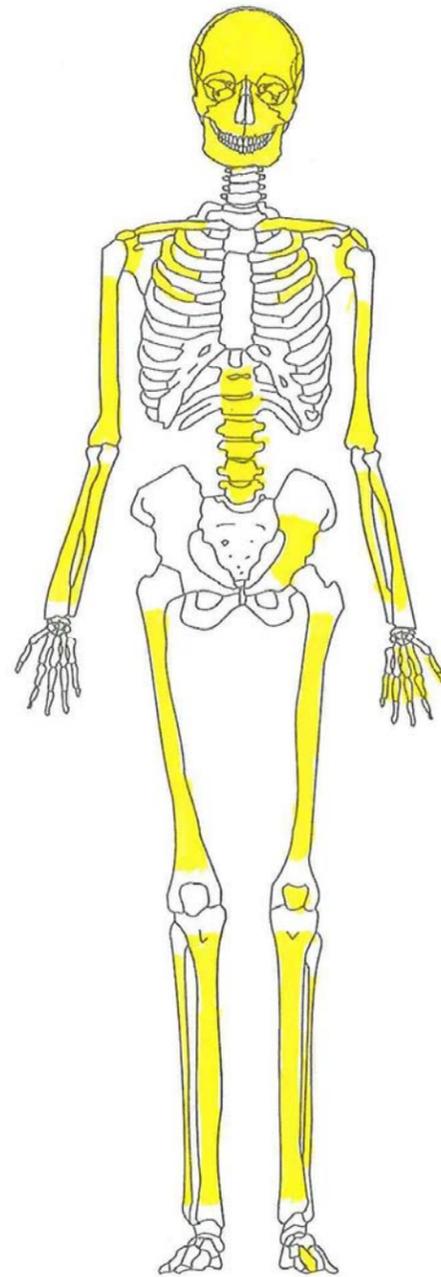
Dental Pathology

Moderate wear was found on most of the teeth recovered. There was extensive wear on the lingual surface of the upper incisors and on the labial surface of the lower incisors, which is indicative of an overbite. The right maxillary canine exhibited an interproximal carious lesion on the distal surface and the left mandibular third molar exhibited carious lesions on the mesial interproximal and buccal surface.

Osteological Summary for 92B

The individual was determined to be a middle adult female of mixed ancestry with periosteal bone formation, osteoarthritis, carious lesions and moderate to extensive dental wear.

92B
 Sex: Female
 Age: Middle Adult
 Ancestry: Mixed
 Height: indeterminate
 Skeletal Pathology: Periosteal Bone Reaction, Osteoarthritis
 Dental Pathology: Carious Lesions, Extensive Dental Wear



92B Skeletal Elements Represented												
Element Name	Axial MNE	Left MNE	Right MNE	Indet. MNE	Element Name	Left MNE	Right MNE	Indet. MNE	Element Name	Left MNE	Right MNE	Indet. MNE
Skull					Teeth				capitate			
frontal	1				upper I1	1			hamate			
parietal		1	1		upper I2	1			Metacarpals			2
occipital	1				upper C	1	1		Phalanges			
temporal		1	1		upper PM1				proximal			5
sphenoid	1				upper PM2				middle			
zygomatic		1	1		upper M1	1			distal			
maxilla		1	1		upper M2				Lower Limb			
palatine					upper M3				os coxae			1
nasal					lower I1		1		femur	1	1	
ethmoid					lower I2	1	1		tibia	1	1	
lacrimial					lower C	1	1		fibula	1	1	
vomer					lower PM1	1	1		patella			1
mandible	1				lower PM2		1		Ankle			
hyoid	1				lower M1				talus			
Vertebrae					lower M2				calcaneus			
cervical					lower M3	1			navicular			
c1	1				Upper Limb				medial cun.			
c2	1				clavicle	1	1		interm. cun.			
c3-7	1				scapula	1	1		lat.cuneiform			
thoracic					humerus	1	1		cuboid			
t1-t12	10				radius	1	1		Metatarsals			1
lumbar					ulna	1	1		Phalanges			
l1-5	3				Wrist				proximal			1
sacral					scaphoid				middle			
s1					lunate				distal			
s2-5					triquetrum							
coccyx					pisiform							
Sternum					trapezium							
Ribs				6	trapezoid							

Figure 3.83. Skeletal Summary 92B

RECOVERY 93B

Mortuary Attributes

Burial Orientation

The burial was oriented with the head to the southwest and the feet to the northeast.

Coffin Shape and Size

The remnants of the coffin and/or distinct outline of differently colored soil indicated that the coffin was hexagonal in shape. It was 33 inches (83.82 cm) long, 12 inches (30.48 cm) at its maximum width and 9 inches (22.86 cm) at its minimum width.

Hardware

Four infant's swing bail handles were recovered. Six thumbscrews in three designs and six escutcheons in two designs were recovered. Fragments of a plate glass coffin viewing window were recovered as well as two coffin tack heads and two butterfly hinges. Fifteen non-diagnostic nail fragments were discarded.

Cultural Attributes

Clothing

No clothing-related artifacts were recovered.

Other Personal Artifacts

No other personal artifacts were recovered.

Other Inclusions or Offerings

No other inclusions or offerings were recovered.

Summary and Estimated Date of Burial

The infant's swing bail handles and coffin size indicate a juvenile burial. This is supported by the chronological age of the skeletal remains which are those of an infant less than one year of age.

Swing bail handles were used between the 1850s and the 1910s, while the interment dates of the cemetery were between 1879 and 1922. The estimated date of burial is between 1879 and 1920.

Osteological Attributes

Inventory and Preservation

This individual was represented by a fragmented cranium, deciduous teeth and 40% of the post-cranial skeleton. (Figure 3.84) The post-cranial skeleton consists of vertebral centrums, neural arches, ribs, the right os coxa and the right femur. The bone is in fair but fragile condition.

Age

The individual was determined to be an infant based on dental development and eruption and on the stages of fusion on the vertebrae (9 months- 1 year).

Sex

Sex could not be determined because the individual was subadult.

Stature

Could not be determined due to fragmented elements.

Ancestry

Could not be determined due to missing elements.

Skeletal Pathology

No pathological conditions were observed on the recovered remains.

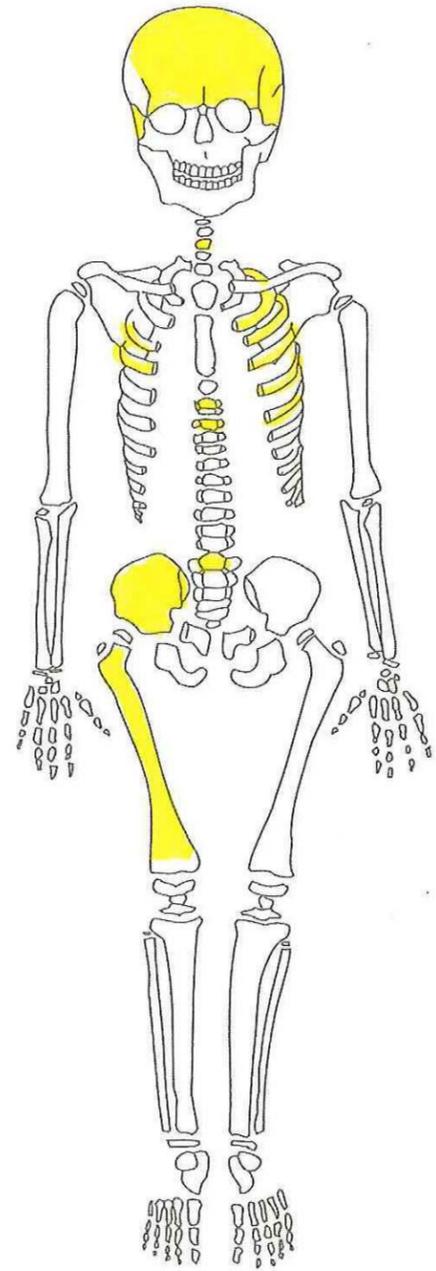
Dental Pathology

No dental pathological conditions were observed on the recovered remains.

Osteological Summary for 93B

The individual was represented by a skull and some post-cranial fragments and determined to be an infant.

93B
 Sex: indeterminate
 Age: Infant
 Ancestry: indeterminate
 Height: indeterminate
 Skeletal Pathology: none observed
 Dental Pathology: none observed



93B Skeletal Elements Represented												
Element Name	Axial MNE	Left MNE	Right MNE	Indet. MNE	Element Name	Left MNE	Right MNE	Indet. MNE	Element Name	Left MNE	Right MNE	Indet. MNE
Skull					Teeth				capitate			
frontal	1				upper I1	1			hamate			
parietal				1	upper I2	1			Metacarpals			
occipital	1				upper C	1	1		Phalanges			
temporal		1	1		upper PM1				proximal			
sphenoid					upper PM2				middle			
zygomatic					upper M1	1	1		distal			
maxilla					upper M2	1			Lower Limb			
palatine					upper M3				os coxae		1	
nasal					lower I1				femur		1	
ethmoid					lower I2				tibia			
lacrimial					lower C		1		fibula			
vomer					lower PM1				patella			
mandible					lower PM2				Ankle			
hyoid					lower M1		1		talus			
Vertebrae					lower M2	1	1		calcaneus			
cervical					lower M3				navicular			
c1					Upper Limb				medial cun.			
c2	1				clavicle				interm. cun.			
c3-7					scapula				lat.cuneiform			
thoracic					humerus				cuboid			
t1-t12	2				radius				Metatarsals			
lumbar					ulna				Phalanges			
l1-5	1				Wrist				proximal			
sacral					scaphoid				middle			
s1					lunate				distal			
s2-5					triquetrum							
coccyx					pisiform							
Sternum					trapezium							
Ribs		1	2	4	trapezoid							

Figure 3.84. Skeletal Summary 93B

RECOVERY 94B

Mortuary Attributes

Burial Orientation

The burial was oriented with the head to the southwest and the feet to the northeast.

Coffin Shape and Size

The remnants of the coffin and/or distinct outline of differently colored soil indicated that the coffin was hexagonal in shape but only partially preserved. The portion present was 27 inches (68.58 cm) long, 15 inches (38.1 cm) at its maximum width and 11 inches (27.94 cm) at its minimum width.

Hardware

Four infant's swing bail handles, one decorative lug with a lotus blossom ornament, five stamped tin coffin studs, four thumbscrews in two different styles and seven escutcheons in two different styles were recovered. One non-diagnostic coffin nail was discarded.

Cultural Attributes

Clothing

Two brass shank buttons with anchors on the fronts, one fabric-covered ferrous button with a non-ferrous rivet and sixteen ceramic, three- and four-hole, dish-style buttons were recovered.

Other Personal Artifacts

No other personal artifacts were recovered.

Other Inclusions or Offerings

One unidentified, ferrous, amorphous object was recovered.

Summary and Estimated Date of Burial

This burial has been determined to be Chinese based on the decorative lug and the lotus ornament, unique to Chinese coffins, recovered. The infant's swing bail handles and coffin size indicate a juvenile burial. This is supported by the chronological age of the skeletal remains which indicate an older child between four and eight years. The western-style buttons suggest that the individual was buried in non-traditional attire.

Prosser process buttons were manufactured between 1849 and 1910, while the interment dates for the cemetery were between 1879 and 1922. The estimated date of burial is between 1879 and 1910.

Osteological Attributes

Inventory and Preservation

This individual is represented by a relatively complete skull, deciduous and permanent dentition and 75% of the post-cranial skeleton (Figure 3.85). The skull is in fair condition, but fragmented. The upper and lower limb bones recovered are in good condition, but friable.

Age

The age of the individual was determined to be a child based on dental development (4-8 years).

Sex

Could not be determined due to missing elements.

Stature

Could not be determined due to missing elements.

Ancestry

Could not be determined due to missing elements.

Skeletal Pathology

No pathological conditions were observed on the recovered remains.

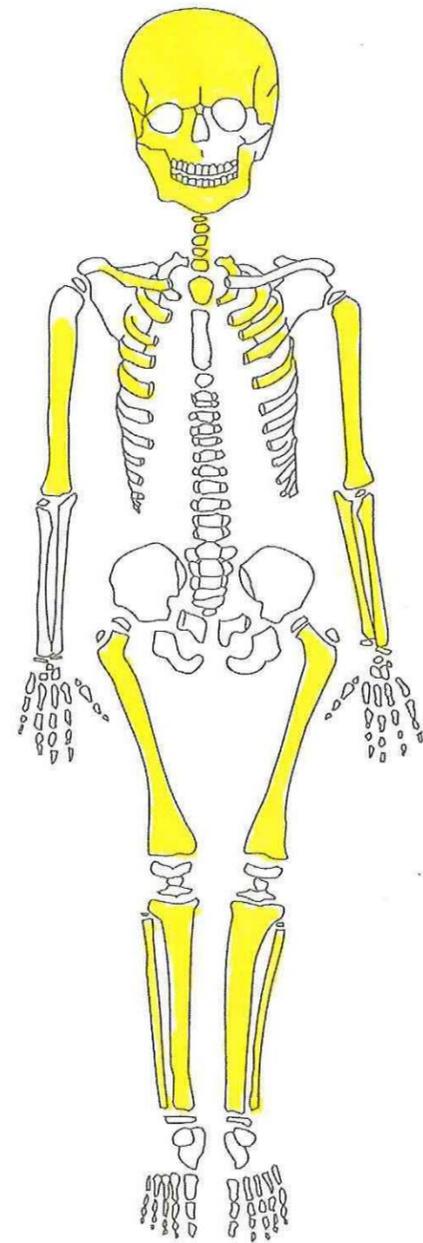
Dental Pathology

No pathological conditions were observed on the recovered remains. There was an insignificant amount of wear on the permanent teeth recovered.

Osteological Summary for 94B

This individual was represented by a skull, upper and lower limb bones and ribs and determined to be a child.

94B
 Sex: indeterminate
 Age: Child
 Ancestry: indeterminate
 Height: indeterminate
 Skeletal Pathology: none observed
 Dental Pathology: none observed



94B Skeletal Elements Represented												
Element Name	Axial MNE	Left MNE	Right MNE	Indet. MNE	Element Name	Left MNE	Right MNE	Indet. MNE	Element Name	Left MNE	Right MNE	Indet. MNE
Skull					Teeth				capitate			
frontal	1				upper I1				hamate			
parietal		1	1		upper I2		1		Metacarpals			
occipital	1				upper C	1			Phalanges			
temporal		1	1		upper PM1				proximal			
sphenoid	1				upper PM2				middle			
zygomatic			1		upper M1		1		distal			
maxilla			1		upper M2	1	1		Lower Limb			
palatine			1		upper M3				os coxae			
nasal					lower I1	1	1		femur	1	1	
ethmoid					lower I2	1			tibia	1	1	
lacrimial			1		lower C	1	1		fibula	1	1	
vomer					lower PM1				patella			
mandible	1				lower PM2				Ankle			
hyoid					lower M1	1	1		talus			
Vertebrae					lower M2	1			calcaneus			
cervical					lower M3				navicular			
c1	1				Upper Limb				medial cun.			
c2	1				clavicle		1		interm. cun.			
c3-7	4				scapula				lat.cuneiform			
thoracic					humerus	1	1		cuboid			
t1-t12					radius	1			Metatarsals			
lumbar					ulna	1			Phalanges			
l1-5					Wrist				proximal			
sacral					scaphoid				middle			
s1					lunate				distal			
s2-5					triquetrum							
coccyx					pisiform							
Sternum	1				trapezium							
Ribs				9	trapezoid							

Figure 3.85. Skeletal Summary 94B

RECOVERY 95B

Mortuary Attributes

Burial Orientation

The burial was oriented with the head to the southwest and the feet to the northeast.

Coffin Shape and Size

The remnants of the coffin and/or distinct outline of differently colored soil indicated that the coffin was hexagonal in shape. Size could not be determined.

Hardware

Eight non-diagnostic nail fragments were discarded.

Cultural Attributes

Clothing

One black ceramic four-hole, tire-style button was recovered as well as four fabric-covered, ferrous buttons with non-ferrous rivets.

Other Personal Artifacts

No other personal artifacts were recovered.

Other Inclusions or Offerings

Unidentified fragments of flat, ferrous metal were recovered.

Summary and Estimated Date of Burial

The fragments of flat, ferrous metal are possibly the remains of a metal coffin cover used to seal out air, seal in communicable disease or protect against spirits of the dead.

Prosser process buttons were manufactured between 1849 and 1910, while the interment dates of the cemetery were between 1879 and 1922. The estimated date of burial is between 1879 and 1910.

Osteological Attributes

Inventory and Preservation

This individual is represented by a partial skull, dentition and 75% of the post-cranial skeleton (Figure 3.86). The skull consists of a cranial vault and mandible, which are in good condition, but fragmented. The upper and lower limbs and os coxae were recovered in good condition, but fragmented.

Age

The age of the individual was determined to be a young adult based on the left auricular surface (30-34 years).

Sex

The sex of the individual was determined to be male based on the greater sciatic notches of the os coxae and the vertical diameter of the right femoral head (46.85 mm).

Stature

Could not be determined due to missing elements.

Ancestry

Could not be determined due to missing elements.

Skeletal Pathology

An oval area of abnormal bone resorption was observed on a proximal manual phalanx probably due to stress or trauma. The area had a maximum diameter of 12.59 mm and a depth of the complete anterior-posterior width of 9.84 mm. Osteophytic lipping in the form of curved spicules was observed on the rims of two lumbar vertebral bodies.

Dental Pathology

The left mandibular second premolar, the left and right mandibular first molars, the left and right mandibular second molars and the right mandibular third molar were lost antemortem. Moderate to extensive dental wear was observed on the front mandibular teeth.

Osteological Summary for 95B

This individual was represented by a relatively complete skeleton and determined to be a young adult male with osteoarthritis, trauma to a finger bone of the hand, antemortem tooth loss and moderate to extensive dental wear.

95B

Sex: Male

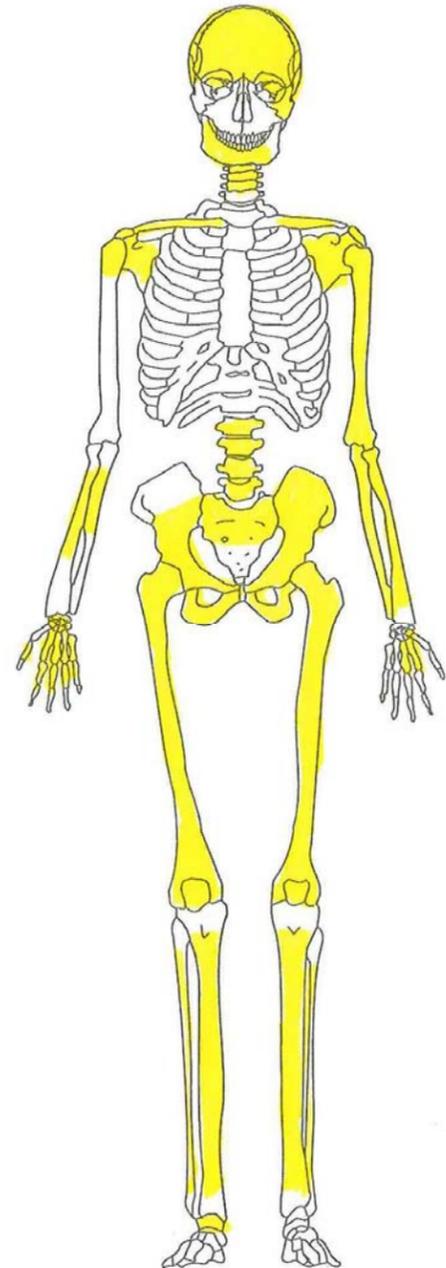
Age: Young Adult

Ancestry: indeterminate

Height: indeterminate

Skeletal Pathology: Abnormal Bone Resorption, Osteoarthritis

Dental Pathology: Antemortem Tooth Loss, Extensive Dental Wear



95B Skeletal Elements Represented												
Element Name	Axial MNE	Left MNE	Right MNE	Indet. MNE	Element Name	Left MNE	Right MNE	Indet. MNE	Element Name	Left MNE	Right MNE	Indet. MNE
Skull					Teeth				capitate		1	
frontal	1				upper I1				hamate	1	1	
parietal		1	1		upper I2				Metacarpals	2	4	
occipital	1				upper C				Phalanges			
temporal		1	1		upper PM1				proximal			5
sphenoid	1				upper PM2				middle			6
zygomatic		1			upper M1		1		distal			
maxilla					upper M2				Lower Limb			
palatine					upper M3				os coxae	1	1	
nasal					lower I1		1		femur	1	1	
ethmoid					lower I2		1		tibia	1	1	
lacrimial					lower C	1	1		fibula	1	1	
vomer					lower PM1	1	1		patella	1	1	
mandible	1				lower PM2		1		Ankle			
hyoid					lower M1				talus		1	
Vertebrae					lower M2				calcaneus			
cervical					lower M3				navicular			
c1	1				Upper Limb				medial cun.			
c2	1				clavicle	1	1		interm. cun.			
c3-7	1				scapula	1	1		lat.cuneiform			
thoracic					humerus	1	1		cuboid			
t1-t12					radius	1	1		Metatarsals			
lumbar					ulna	1	1		Phalanges			
l1-5	4				Wrist				proximal			
sacral					scaphoid		1		middle			
s1	1				lunate		1		distal			
s2-5	1				triquetrum							
coccyx					pisiform		1					
Sternum					trapezium							
Ribs					trapezoid		1					

Figure 3.86. Skeletal Summary 95B

RECOVERY 96B

Mortuary Attributes

Burial Orientation

The burial was oriented with the head to the southwest and the feet to the northeast.

Coffin Shape and Size

The remnants of the coffin and/or distinct outline of differently colored soil indicated that the coffin was hexagonal in shape. It was 66 inches (167.64 cm) long, 16 inches (40.64 cm) at its maximum width and 14 inches (35.56 cm) at its minimum width.

Hardware

One swing bail handle and three fragments of either a handle or an escutcheon were recovered.

Cultural Attributes

Clothing

No clothing-related artifacts were recovered.

Other Personal Artifacts

No other personal artifacts were recovered.

Other Inclusions or Offerings

One fragment of a white milkglass bottle was recovered. A deciduous, upper left lateral incisor was also recovered from the area of the right hand or hip pocket.

Summary and Estimated Date of Burial

Swing bail handles were used between the 1850s and the 1910s, while milkglass was generally manufactured between the late 19th and early 20th centuries. The estimated date of burial is between 1880 and 1920.

Osteological Attributes

Inventory and Preservation

Individual A is represented by relatively complete skull and 90% of the post-cranial skeleton (Figure 3.87). The bone is in good condition, but fragmented. Individual B consists only of a deciduous left maxillary first incisor found near the right hand in the burial.

Age

The age of Individual A was determined to be an adolescent based on the incomplete fusion of the sternal epiphysis of the right clavicle (18-30 years) and the incomplete eruption of the left mandibular third molar (<21 years).

Sex

The sex of Individual A was determined to be a female based on the nuchal crest, mastoid processes, supraorbital margins and the greater sciatic notches and preauricular sulci of the os coxae.

Stature

The height of Individual A was determined to be 4 feet and 11.9 inches (152.18 cm) based on the length of the left femur.

Ancestry

The ancestry of Individual A was determined to be Euro-American based on the morphology of nasal aperture.

Skeletal Pathology

No pathological conditions were observed on the recovered remains.

Dental Pathology

Minor dental wear was observed on the teeth of Individual A recovered. The left maxillary second incisor, right maxillary first molar and left mandibular second molar were lost antemortem. Carious lesions were observed on the mesial and distal interproximal surfaces of the left maxillary first incisor, the mesial interproximal surface of the right maxillary first incisor, the mesial interproximal surface of the left maxillary first premolar, the entire occlusal surface of the left maxillary second molar, a pinhole lesion on the right maxillary second molar and a pinhole lesion on the left maxillary third molar.

Osteological Summary for 96B

Individual A was represented by a relatively complete skeleton and determined to be an adolescent female of Euro-American ancestry with antemortem tooth loss, minor dental wear and carious lesions. The height was calculated to be 4 feet and 11.9 inches. Individual B consists only of a deciduous left maxillary first incisor found near the right hand in the burial.

96Ba

Sex: Female

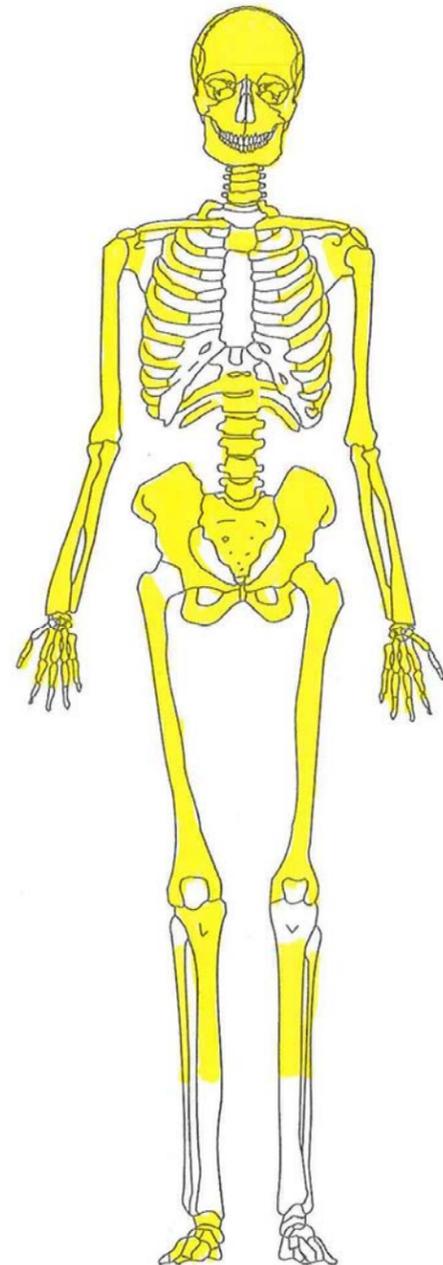
Age: Adolescent

Ancestry: Euro-American

Height: 4' 11.9" (152.18 cm)

Skeletal Pathology: none observed

Dental Pathology: Antemortem Tooth Loss, Carious Lesions



96Ba Skeletal Elements Represented												
Element Name	Axial MNE	Left MNE	Right MNE	Indet. MNE	Element Name	Left MNE	Right MNE	Indet. MNE	Element Name	Left MNE	Right MNE	Indet. MNE
Skull					Teeth				capitate	1		
frontal	1				upper I1	2	1		hamate			
parietal		1	1		upper I2				Metacarpals	5	4	
occipital	1				upper C				Phalanges			
temporal		1	1		upper PM1	1	1		proximal			6
sphenoid	1				upper PM2				middle			7
zygomatic		1	1		upper M1				distal			
maxilla		1	1		upper M2	1	1		Lower Limb			
palatine					upper M3	1	1		os coxae	1	1	
nasal					lower I1				femur	1	1	
ethmoid					lower I2				tibia	1	1	
lacrimial					lower C	1			fibula	1	1	
vomer					lower PM1	1	1		patella			
mandible	1				lower PM2	1	1		Ankle			
hyoid	1				lower M1				talus			
Vertebrae					lower M2	1			calcaneus			
cervical					lower M3				navicular		1	
c1	1				Upper Limb				medial cun.		1	
c2	1				clavicle	1	1		interm. cun.			
c3-7	5				scapula	1	1		lat.cuneiform			
thoracic					humerus	1	1		cuboid			
t1-t12	10				radius	1	1		Metatarsals		5	
lumbar					ulna	1	1		Phalanges			
l1-5	5				Wrist				proximal			5
sacral					scaphoid		1		middle			1
s1	1				lunate	1	1		distal			1
s2-5	4				triquetrum	1						
coccyx					pisiform							
Sternum	1				trapezium							
Ribs		11	11		trapezoid							

Figure 3.87. Skeletal Summary 96Ba

RECOVERY 97B

Mortuary Attributes

Burial Orientation

The burial was oriented with the head to the southwest and the feet to the northeast.

Coffin Shape and Size

The remnants of the coffin were heavily impacted, hindering an accurate determination of size. The portion remaining was 18 inches (45.72 cm) long, 12 inches (30.48 cm) at its maximum width and 7 inches (17.78 cm) at its minimum width.

Hardware

Two swing bail handles were recovered. Ten non-diagnostic nail fragments were discarded.

Cultural Attributes

Clothing

No clothing-related artifacts were recovered.

Other Personal Artifacts

No other personal artifacts were recovered.

Other Inclusions or Offerings

One glass fragment of a medium olive-green bottle with unidentified contents and manufacture was recovered.

Summary and Estimated Date of Burial

Swing bail handles were used between the 1850s and the 1910s, while the interment dates of the cemetery were between 1879 and 1922. The date of burial is estimated to be between 1879 and 1920.

Osteological Attributes

No bone was observed or recovered.

RECOVERY 98B

Mortuary Attributes

Burial Orientation

The burial was oriented with the head to the southwest and the feet to the northeast.

Coffin Shape and Size

The remnants of the coffin were heavily impacted. The portion remaining was 55 inches (139.7 cm) long, 11 inches (27.94 cm) at its maximum width and 9 inches (22.86 cm) at its minimum width.

Hardware

Fragments from two swing bail handles and two stamped tin coffin studs were recovered. Six non-diagnostic nail fragments were discarded.

Cultural Attributes

Clothing

No clothing-related artifacts were recovered.

Other Personal Artifacts

No other personal artifacts were recovered.

Other Inclusions or Offerings

A burial brick with Chinese characters painted onto the surface was recovered. The legible characters were translated as tomb of Wong Sei Tsun.

Summary and Estimated Date of Burial

This burial has been designated as Chinese based on the burial brick recovered.

Swing bail handles were used between the 1850s and the 1910s, while the interment dates of the cemetery were between 1879 and 1922. The estimated date of burial is between 1879 and 1920.

Osteological Attributes

No bone was observed or recovered.

RECOVERY 99B

Mortuary Attributes

Burial Orientation

The burial was oriented southwest-northeast.

Coffin Shape and Size

Only small coffin fragments remained, hindering an accurate determination of shape and size.

Hardware

Two swing bail handles were recovered. Three non-diagnostic nail fragments were discarded.

Cultural Attributes

Clothing

One non-ferrous suspender clasp was recovered.

Other Personal Artifacts

No other personal artifacts were recovered.

Other Inclusions or Offerings

Two Chinese wen were recovered. Multiple fragments of unidentified ferrous metal, including a rod, were recovered. Eleven glass fragments of bottles with unidentified contents and manufacture were recovered; two were light-“7-Up”-green and nine were medium olive-green.

Summary and Estimated Date of Burial

This burial has been determined to be Chinese based on the coins recovered. The suspender clasp suggests that the individual was buried in non-traditional attire. The fragments of flat, ferrous metal are possibly the remains of a metal coffin cover used to seal out air, seal in communicable disease or protect against spirits of the dead.

Swing bail handles were used between the 1850s and the 1910s, while the interment dates of the cemetery were between 1879 and 1922. The estimated date of burial is between 1879 and 1920.

Osteological Attributes

No bone was observed or recovered.

RECOVERY 100B

Mortuary Attributes

Burial Orientation

The burial was oriented with the head to the southwest and the feet to the northeast.

Coffin Shape and Size

The remnants of the coffin and/or distinct outline of differently colored soil indicated that the coffin was hexagonal in shape. It heavily impacted, hindering an accurate determination of size.

Hardware

One fragment of a swing bail handle was recovered.

Cultural Attributes

Clothing

No clothing-related artifacts were recovered.

Other Personal Artifacts

No other personal artifacts were recovered.

Other Inclusions or Offerings

Ten fragments of olive-green glass wine or champagne bottles produced on a turn mold were recovered.

Summary and Estimated Date of Burial

Bottles were produced on turn molds between 1890 and 1915. The estimated date of burial is between 1890 and 1915.

Osteological Attributes

No bone was observed or recovered.

RECOVERY 101BA

Mortuary Attributes

Burial Orientation

The burial was oriented with the head to the southwest and the feet to the northeast.

Coffin Shape and Size

No coffin or distinct outline of differently colored soil was observed.

Hardware

No hardware was recovered.

Cultural Attributes

Clothing

No clothing-related artifacts were recovered.

Other Personal Artifacts

No other personal artifacts were recovered.

Other Inclusions or Offerings

No other inclusions or offerings were recovered.

Summary and Estimated Date of Burial

No artifacts were recovered that could accurately estimate the date of burial. The date of burial is estimated to be between the interment dates of the cemetery, 1879 to 1922.

Osteological Attributes

Inventory and Preservation

This individual is represented by a right tibia shaft in fair condition (Figure 3.88).

Age

Could not be determined due to missing elements.

Sex

Could not be determined due to missing elements.

Stature

Could not be determined due to missing elements.

Ancestry

Could not be determined due to missing elements.

Skeletal Pathology

No pathological conditions were observed on the recovered remains.

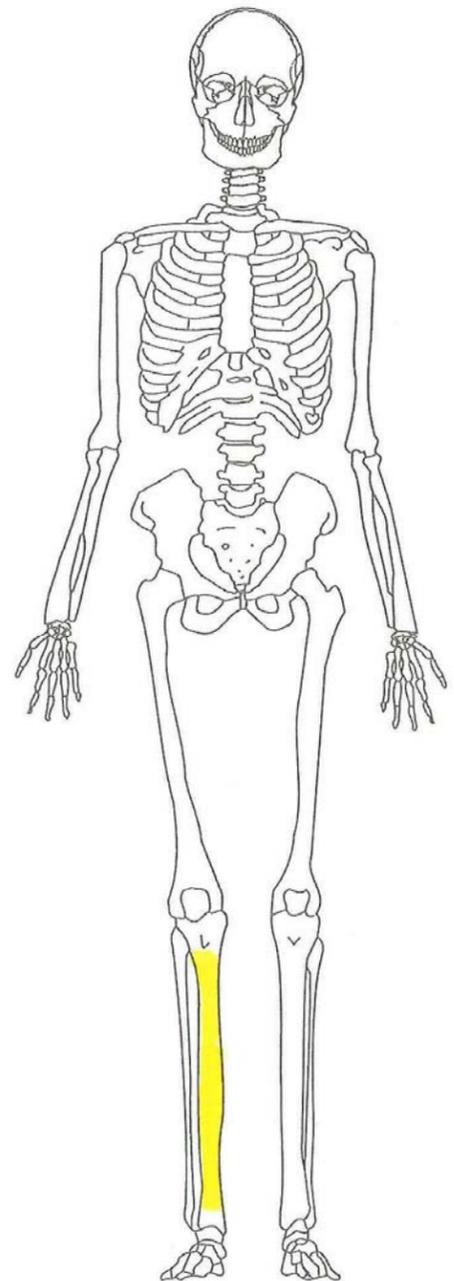
Dental Pathology

Could not be determined due to missing elements.

Osteological Summary for 101Ba

This individual was represented by a right tibia shaft and the biological profile could not be determined based on the missing elements.

101Ba
 Sex: indeterminate
 Age: indeterminate
 Ancestry: indeterminate
 Height: indeterminate
 Skeletal Pathology: none observed
 Dental Pathology: indeterminate



101Ba Skeletal Elements Represented												
Element Name	Axial MNE	Left MNE	Right MNE	Indet. MNE	Element Name	Left MNE	Right MNE	Indet. MNE	Element Name	Left MNE	Right MNE	Indet. MNE
Skull					Teeth				capitate			
frontal					upper I1				hamate			
parietal					upper I2				Metacarpals			
occipital					upper C				Phalanges			
temporal					upper PM1				proximal			
sphenoid					upper PM2				middle			
zygomatic					upper M1				distal			
maxilla					upper M2				Lower Limb			
palatine					upper M3				os coxae			
nasal					lower I1				femur			
ethmoid					lower I2				tibia		1	
lacrimial					lower C				fibula			
vomer					lower PM1				patella			
mandible					lower PM2				Ankle			
hyoid					lower M1				talus			
Vertebrae					lower M2				calcaneus			
cervical					lower M3				navicular			
c1					Upper Limb				medial cun.			
c2					clavicle				interm. cun.			
c3-7					scapula				lat.cuneiform			
thoracic					humerus				cuboid			
t1-t12					radius				Metatarsals			
lumbar					ulna				Phalanges			
l1-5					Wrist				proximal			
sacral					scaphoid				middle			
s1					lunate				distal			
s2-5					triquetrum							
coccyx					pisiform							
Sternum					trapezium							
Ribs					trapezoid							

Figure 3.89. Skeletal Summary 101Ba

RECOVERY 101Bb

Mortuary Attributes

Burial Orientation

Burial orientation was indeterminate.

Coffin Shape and Size

No coffin or distinct outline of differently colored soil was observed.

Hardware

One non-diagnostic nail fragment was discarded.

Cultural Attributes

Clothing

No clothing-related artifacts were recovered.

Other Personal Artifacts

No other personal artifacts were recovered.

Other Inclusions or Offerings

One Euro-American, vitreous earthenware dish fragment with a cobalt flow blue design and a fragment of Chinese porcelain with an unidentified pattern were recovered.

Summary and Estimated Date of Burial

This burial has been determined to be Chinese based on the Chinese porcelain recovered.

The particular style of flow blue ceramic recovered was manufactured between 1885 and 1920, while the interment dates of the cemetery were between 1879 and 1922. The estimated date of burial is between 1885 and 1922.

Osteological Attributes

Inventory and Preservation

This individual is represented by the left and right femora and right tibia shafts (Figure 3.89). The bone is in fair condition, but friable.

Age

The age of the individual was determined to be an adult based on the complete fusion of the lesser trochanter of the left femur (>22 years).

Sex

Could not be determined due to missing elements.

Stature

Could not be determined due to missing elements.

Ancestry

Could not be determined due to missing elements.

Skeletal Pathology

No pathological conditions were observed on the recovered remains.

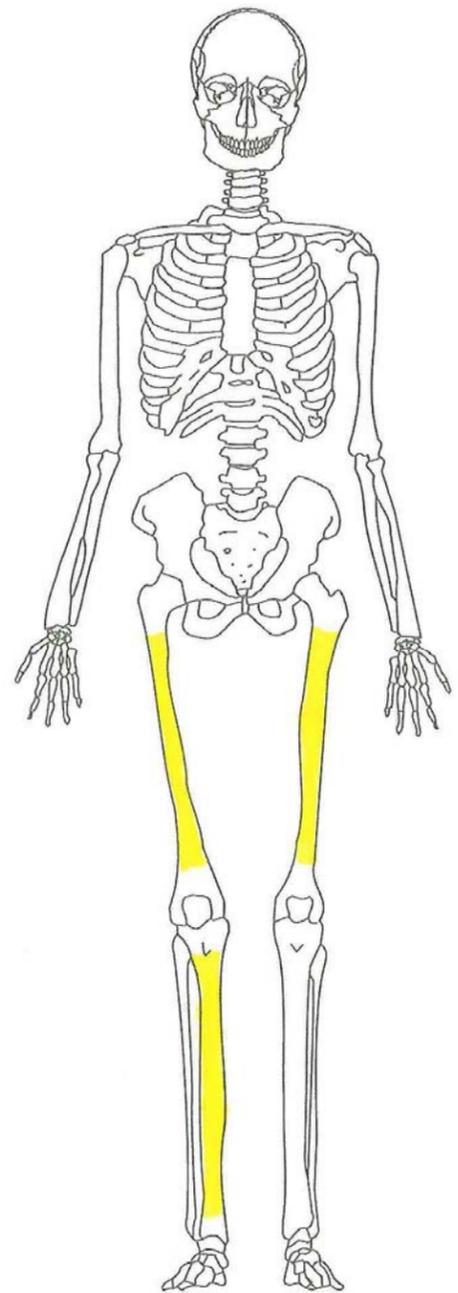
Dental Pathology

Could not be determined due to missing elements.

Osteological Summary for 101Bb

This individual was represented by lower limb bones and determined to be an adult.

101Bb
 Sex: indeterminate
 Age: Adult
 Ancestry: indeterminate
 Height: indeterminate
 Skeletal Pathology: none observed
 Dental Pathology: indeterminate



101Bb Skeletal Elements Represented												
Element Name	Axial MNE	Left MNE	Right MNE	Indet. MNE	Element Name	Left MNE	Right MNE	Indet. MNE	Element Name	Left MNE	Right MNE	Indet. MNE
Skull					Teeth				capitate			
frontal					upper I1				hamate			
parietal					upper I2				Metacarpals			
occipital					upper C				Phalanges			
temporal					upper PM1				proximal			
sphenoid					upper PM2				middle			
zygomatic					upper M1				distal			
maxilla					upper M2				Lower Limb			
palatine					upper M3				os coxae			
nasal					lower I1				femur	1	1	
ethmoid					lower I2				tibia		1	
lacrimial					lower C				fibula			
vomer					lower PM1				patella			
mandible					lower PM2				Ankle			
hyoid					lower M1				talus			
Vertebrae					lower M2				calcaneus			
cervical					lower M3				navicular			
c1					Upper Limb				medial cun.			
c2					clavicle				interm. cun.			
c3-7					scapula				lat.cuneiform			
thoracic					humerus				cuboid			
t1-t12					radius				Metatarsals			
lumbar					ulna				Phalanges			
l1-5					Wrist				proximal			
sacral					scaphoid				middle			
s1					lunate				distal			
s2-5					triquetrum							
coccyx					pisiform							
Sternum					trapezium							
Ribs					trapezoid							

Figure 3.89. Skeletal Summary 101Bb

RECOVERY 102B

Mortuary Attributes

Burial Orientation

The burial was oriented with the head to the southwest and the feet to the northeast.

Coffin Shape and Size

The burial was heavily impacted, hindering an accurate determination of shape and size.

Hardware

Seventeen non-diagnostic nail fragments were discarded.

Cultural Attributes

Clothing

No clothing-related artifacts were recovered.

Other Personal Artifacts

No other personal artifacts were recovered.

Other Inclusions or Offerings

One fragment of a clear glass jar with unidentified contents and manufacture was recovered.

Summary and Estimated Date of Burial

No artifacts were recovered that could accurately estimate the date of burial. The date of burial is estimated to be between the interment dates of the cemetery, 1879 to 1922.

Osteological Attributes

Inventory and Preservation

This individual is represented by cranial fragments and upper and lower limb shaft fragments (Figure 3.90). The bone is in poor condition.

Age

The age of the individual was determined to be an adult based on the complete fusion of the lesser trochanter of the left femur (>22 years).

Sex

Could not be determined due to missing elements.

Stature

Could not be determined due to missing elements.

Ancestry

Could not be determined due to missing elements.

Skeletal Pathology

No pathological conditions were observed on the recovered remains.

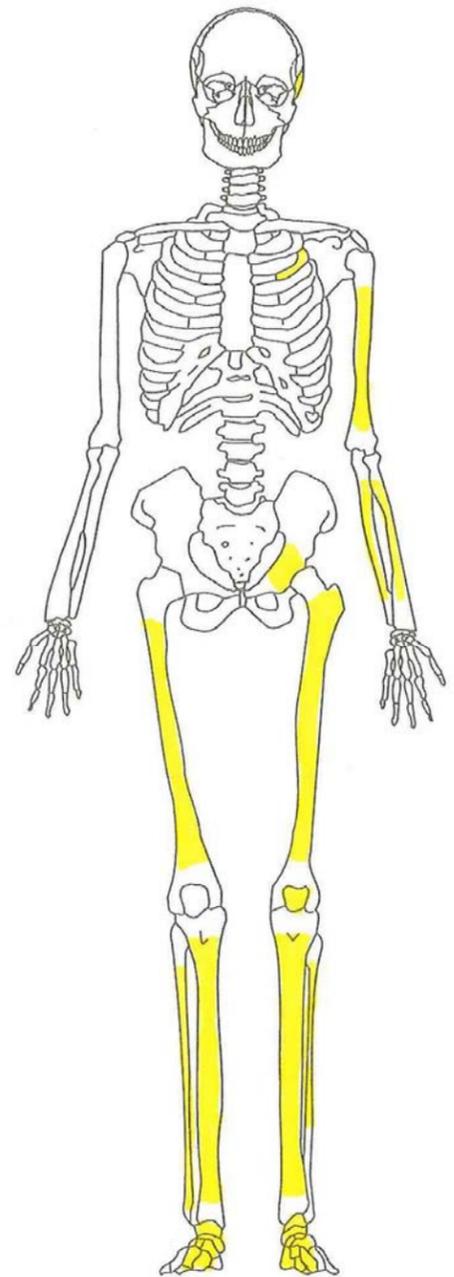
Dental Pathology

Could not be determined due to missing elements.

Osteological Summary for 102B

This individual was mostly represented by limb bone shaft fragments and determined to be an adult.

102B
 Sex: indeterminate
 Age: Adult
 Ancestry: indeterminate
 Height: indeterminate
 Skeletal Pathology: none observed
 Dental Pathology: indeterminate



102B Skeletal Elements Represented												
Element Name	Axial MNE	Left MNE	Right MNE	Indet. MNE	Element Name	Left MNE	Right MNE	Indet. MNE	Element Name	Left MNE	Right MNE	Indet. MNE
Skull					Teeth				capitate			
frontal					upper I1				hamate			
parietal					upper I2				Metacarpals			
occipital	1				upper C				Phalanges			
temporal				1	upper PM1				proximal			
sphenoid					upper PM2				middle			
zygomatic					upper M1				distal			
maxilla					upper M2				Lower Limb			
palatine					upper M3				os coxae	1		
nasal					lower I1				femur	1	1	
ethmoid					lower I2				tibia	1	1	
lacrimial					lower C				fibula	1	1	
vomer					lower PM1				patella	1		
mandible					lower PM2				Ankle			
hyoid					lower M1				talus	1	1	
Vertebrae					lower M2				calcaneus	1		
cervical					lower M3				navicular	1		
c1					Upper Limb				medial cun.		1	
c2					clavicle				interm. cun.			
c3-7					scapula				lat.cuneiform			
thoracic					humerus	1			cuboid			
t1-t12					radius	1			Metatarsals	3	1	
lumbar					ulna	1			Phalanges			
l1-5					Wrist				proximal			1
sacral					scaphoid				middle			
s1					lunate				distal			
s2-5					triquetrum							
coccyx					pisiform							
Sternum					trapezium							
Ribs		1			trapezoid							

Figure 3.90. Skeletal Summary 102B

RECOVERY 103B

Mortuary Attributes

Burial Orientation

The burial was oriented with the head to the southwest and the feet to the northeast.

Coffin Shape and Size

The remnants of the coffin and/or distinct outline of differently colored soil indicated that the coffin was hexagonal in shape. It was impacted and the portion remaining was 66 inches (167.64 cm) long but the widths were indeterminate.

Hardware

One swing bail handle was recovered. Four non-diagnostic nail fragments were discarded.

Cultural Attributes

Clothing

Five fabric-covered, ferrous buttons with non-ferrous rivets were recovered.

Other Personal Artifacts

Vulcanized rubber, non-ferrous metal and wood pipe fragments were recovered, as well as a non-ferrous charm.

Other Inclusions or Offerings

No other inclusions or offerings were recovered.

Summary and Estimated Date of Burial

Swing bail handles were used between the 1850s and the 1910s, while the interment dates of the cemetery were between 1879 and 1922. The estimated date of burial is between 1879 and 1920.

Osteological Attributes

Inventory and Preservation

This individual was represented by a partial skull, some dentition and upper and lower limb bones (Figure 3.91). The skull consists of large cranial vault fragments and a mandible in fair condition. The left and right upper limbs, femora and os coxae are in fair condition, but friable.

Age

The age of this individual was determined to be adult based on the complete fusion of the left and right femoral heads (>19 years).

Sex

The sex of this individual was determined to be male based on the nuchal crest, right mastoid process, mental eminence and the vertical diameter of the left femoral head (48.07 mm).

Stature

Could not be determined due to missing elements.

Ancestry

Could not be determined due to missing elements.

Skeletal Pathology

No pathological conditions were observed on the recovered remains.

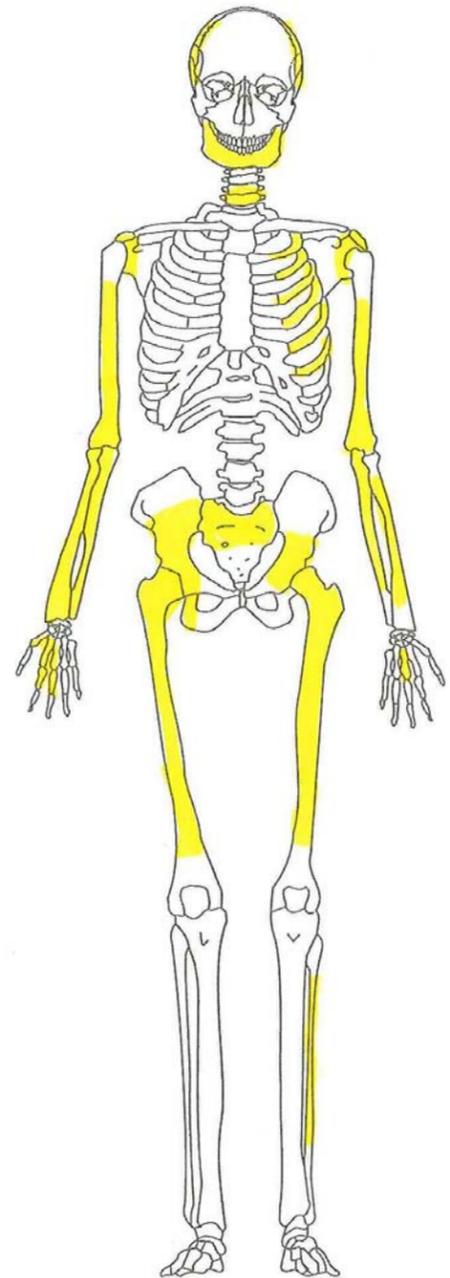
Dental Pathology

Moderate wear was observed on all the teeth recovered except the right mandibular first molar, which had extensive wear.

Osteological Summary for 103B

This individual was represented by a partial skull and most limb bones and determined to be an adult male with moderate to extensive dental wear.

103B
 Sex: Male
 Age: Adult
 Ancestry: indeterminate
 Height: indeterminate
 Skeletal Pathology: none observed
 Dental Pathology: Extensive Dental Wear



103B Skeletal Elements Represented												
Element Name	Axial MNE	Left MNE	Right MNE	Indet. MNE	Element Name	Left MNE	Right MNE	Indet. MNE	Element Name	Left MNE	Right MNE	Indet. MNE
Skull					Teeth				capitate			
frontal					upper I1				hamate			
parietal		1	1		upper I2				Metacarpals	1	3	
occipital	1				upper C				Phalanges			
temporal		1	1		upper PM1				proximal			2
sphenoid					upper PM2				middle			
zygomatic					upper M1				distal			
maxilla					upper M2				Lower Limb			
palatine					upper M3				os coxae	1	1	
nasal					lower I1				femur	1	1	
ethmoid					lower I2				tibia			
lacrimial					lower C		1		fibula			1
vomer					lower PM1		1		patella			
mandible	1				lower PM2				Ankle			
hyoid					lower M1		1		talus			
Vertebrae					lower M2	1	1		calcaneus			
cervical					lower M3				navicular			
c1					Upper Limb				medial cun.			
c2	1				clavicle				interm. cun.			
c3-7	1				scapula	1	1		lat.cuneiform			
thoracic					humerus	1	1		cuboid			
t1-t12	3				radius	1	1		Metatarsals			
lumbar					ulna	1	1		Phalanges			
l1-5					Wrist				proximal			
sacral					scaphoid				middle			
s1					lunate				distal			
s2-5	2				triquetrum							
coccyx					pisiform							
Sternum					trapezium							
Ribs		6			trapezoid							

Figure 3.91. Skeletal Summary 103B

RECOVERY 104B

Mortuary Attributes

Burial Orientation

The burial was oriented southwest to northeast.

Coffin Shape and Size

No coffin was observed but a distinct outline of differently colored soil was present.

Hardware

No hardware was recovered.

Cultural Attributes

Clothing

No clothing-related artifacts were recovered.

Other Personal Artifacts

No other personal artifacts were recovered.

Other Inclusions or Offerings

No other inclusions or offerings were recovered.

Summary and Estimated Date of Burial

No artifacts were recovered that could accurately estimate the date of burial. The date of burial is estimated to be between the interment dates of the cemetery, 1879 to 1922.

Osteological Attributes

No bone was observed or recovered.

RECOVERY 105B

Mortuary Attributes

Burial Orientation

The burial was oriented southwest-northeast.

Coffin Shape and Size

The southwest portion was heavily impacted, hindering an accurate determination of shape. The remaining portion was 51 inches (129.54 cm) long and was 17 inches (43.18 cm) wide.

Hardware

Two swing bail handles with remnants of red paint on the lugs, three thumbscrews and three escutcheons were recovered. Five non-diagnostic nail fragments were discarded.

Cultural Attributes

Clothing

No clothing-related artifacts were recovered.

Other Personal Artifacts

No other personal artifacts were recovered.

Other Inclusions or Offerings

No other inclusions or offerings were recovered.

Summary and Estimated Date of Burial

This burial has been classified as Chinese based on the red paint remnants on the swing bail handle lugs.

Swing bail handles were used between the 1850s and the 1910s, while the interment dates of the cemetery were between 1879 and 1922. The estimated date of burial is between 1879 and 1920.

Osteological Attributes

Inventory and Preservation

This individual is represented by the lower limb bones (Figure 3.92). The left and right lower limb bone shafts and feet were recovered in poor fragmented condition.

Age

The age of this individual was determined to be an adult based on the complete fusion of the distal epiphyses of the left and right tibiae (>19 years).

Sex

Could not be determined due to missing elements.

Stature

Could not be determined due to missing elements.

Ancestry

Could not be determined due to missing elements.

Skeletal Pathology

No pathological conditions were observed on the recovered remains.

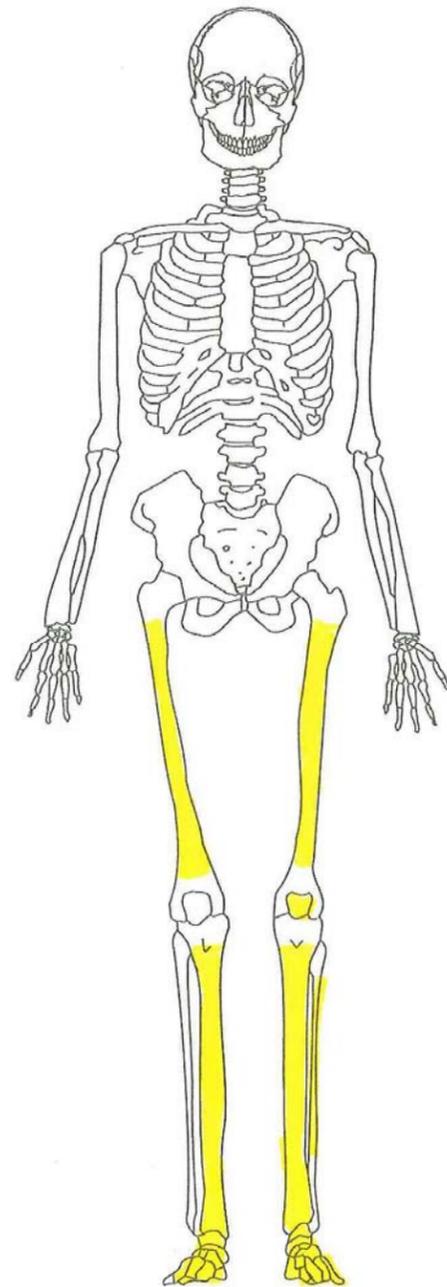
Dental Pathology

Could not be determined due to missing elements.

Osteological Summary for 105B

This individual was represented by lower limbs and determined to be an adult.

105B
 Sex: indeterminate
 Age: Adult
 Ancestry: indeterminate
 Height: indeterminate
 Skeletal Pathology: none observed
 Dental Pathology: indeterminate



105B Skeletal Elements Represented												
Element Name	Axial MNE	Left MNE	Right MNE	Indet. MNE	Element Name	Left MNE	Right MNE	Indet. MNE	Element Name	Left MNE	Right MNE	Indet. MNE
Skull					Teeth				capitate			
frontal					upper I1				hamate			
parietal					upper I2				Metacarpals			
occipital					upper C				Phalanges			
temporal					upper PM1				proximal			
sphenoid					upper PM2				middle			
zygomatic					upper M1				distal			
maxilla					upper M2				Lower Limb			
palatine					upper M3				os coxae			
nasal					lower I1				femur	1	1	
ethmoid					lower I2				tibia	1	1	
lacrimial					lower C				fibula			1
vomer					lower PM1				patella	1		
mandible					lower PM2				Ankle			
hyoid					lower M1				talus	1	1	
Vertebrae					lower M2				calcaneus	1	1	
cervical					lower M3				navicular	1	1	
c1					Upper Limb				medial cun.	1	1	
c2					clavicle				interm. cun.	1	1	
c3-7					scapula				lat.cuneiform		1	
thoracic					humerus				cuboid	1	1	
t1-t12					radius				Metatarsals	3	4	
lumbar					ulna				Phalanges			
l1-5					Wrist				proximal			6
sacral					scaphoid				middle			1
s1					lunate				distal			1
s2-5					triquetrum							
coccyx					pisiform							
Sternum					trapezium							
Ribs					trapezoid							

Figure 3.92. Skeletal Summary 105B

RECOVERY 106BA

Mortuary Attributes

Burial Orientation

The burial was oriented with the head to the southwest and the feet to the northeast.

Coffin Shape and Size

The burial was heavily impacted, hindering an accurate determination of coffin shape and size.

Hardware

No hardware was recovered.

Cultural Attributes

Clothing

No clothing-related artifacts were recovered.

Other Personal Artifacts

No other personal artifacts were recovered.

Other Inclusions or Offerings

No other inclusions or offerings were recovered.

Summary and Estimated Date of Burial

No artifacts were recovered that could accurately estimate the date of burial. The date of burial is estimated to be between the interment dates of the cemetery, 1879 to 1922.

Osteological Attributes for 106Ba

Inventory and Preservation

This individual is represented by the left and right lower limb bones (Figure). The bone is in fair condition, but friable.

Age

The age of the individual was determined to be an adult based on the complete fusion of the distal epiphyses of the left and right tibiae.

Sex

Could not be determined due to missing elements.

Stature

Could not be determined due to missing elements.

Ancestry

Could not be determined due to missing elements.

Skeletal Pathology

No pathological conditions were observed on the recovered remains.

Dental Pathology

Could not be determined due to missing elements.

Osteological Summary for 106Ba

This individual was represented by the lower limbs and determined to be an adult.

Osteological Attributes for 106Bb

Inventory and Preservation

This individual is represented by the lower limb bones (Figure 3.94). The bone is in fair condition but friable.

Age

The age of the individual was determined to be an adult based on the complete fusion of the distal epiphysis of the right tibia.

Sex

The sex of the individual was determined to be male based on the vertical diameter of the right femoral head (47.84 mm).

Stature

Could not be determined due to missing elements.

Ancestry

Could not be determined due to missing elements.

Skeletal Pathology

No pathological conditions were observed on the recovered remains.

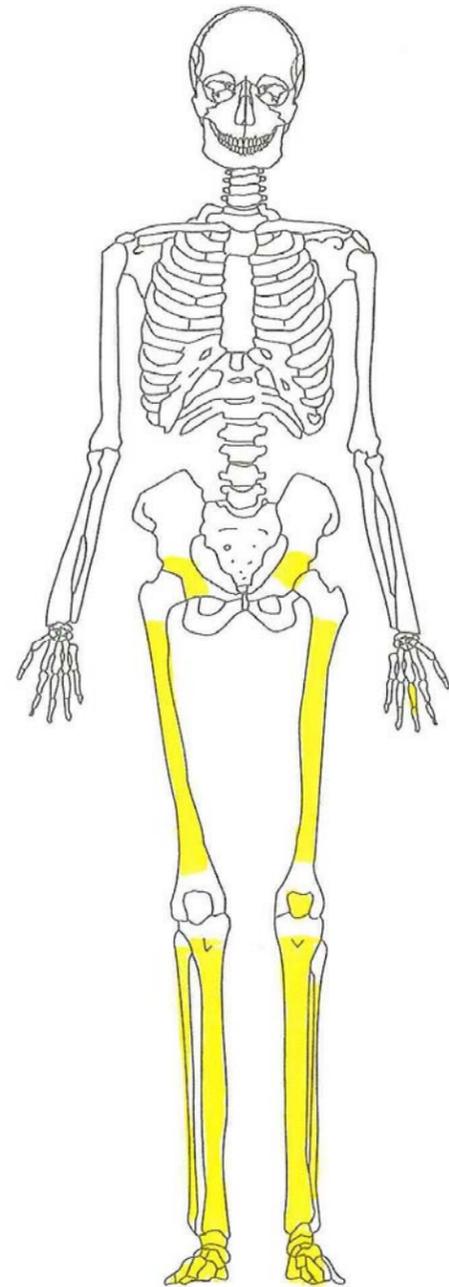
Dental Pathology

Could not be determined due to missing elements.

Osteological Summary for 106Bb

This individual was represented by the lower limbs and determined to be an adult male.

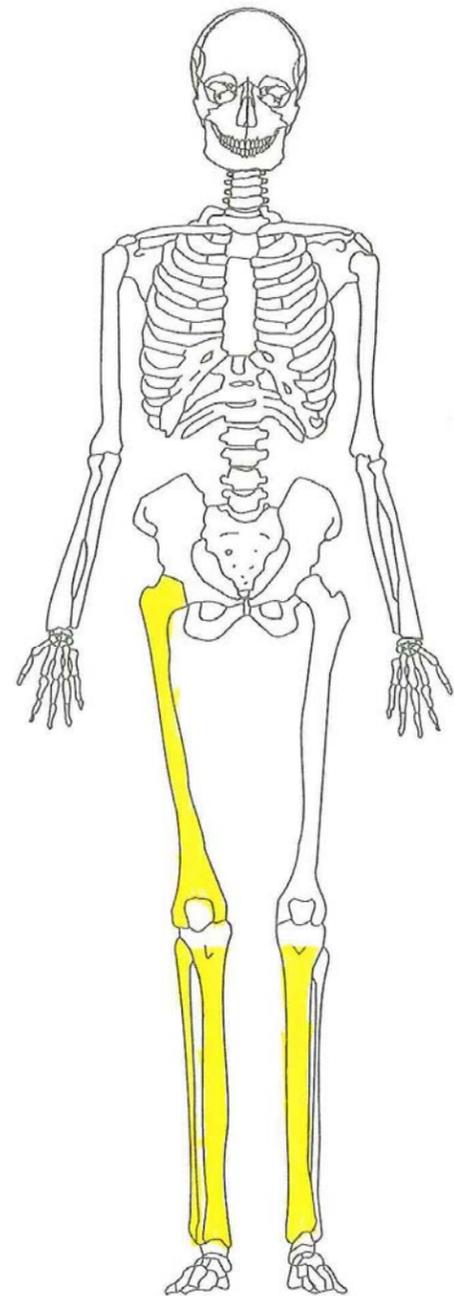
106Ba
 Sex: indeterminate
 Age: Adult
 Ancestry: indeterminate
 Height: indeterminate
 Skeletal Pathology: none observed
 Dental Pathology: indeterminate



106Ba Skeletal Elements Represented												
Element	Axial	Left	Right	Indet.	Element	Left	Right	Indet.	Element	Left	Right	Indet.
Name	MNE	MNE	MNE	MNE	Name	MNE	MNE	MNE	Name	MNE	MNE	MNE
Skull					Teeth				capitate			
frontal					upper I1				hamate			
parietal					upper I2				Metacarpals			
occipital					upper C				Phalanges			
temporal					upper PM1				proximal			1
sphenoid					upper PM2				middle			
zygomatic					upper M1				distal			
maxilla					upper M2				Lower Limb			
palatine					upper M3				os coxae	1	1	
nasal					lower I1				femur	1	1	
ethmoid					lower I2				tibia	1	1	
lacrimial					lower C				fibula	1	1	
vomer					lower PM1				patella	1		
mandible					lower PM2				Ankle			
hyoid					lower M1				talus	1	1	
Vertebrae					lower M2				calcaneus	1	1	
cervical					lower M3				navicular	1		
c1					Upper Limb				medial cun.			
c2					clavicle				interm. cun.	1	1	
c3-7					scapula				lat.cuneiform	1		
thoracic					humerus				cuboid			
t1-t12					radius				Metatarsals	5	5	
lumbar					ulna				Phalanges			
l1-5					Wrist				proximal			1
sacral					scaphoid				middle			
s1					lunate				distal			
s2-5					triquetrum							
coccyx					pisiform							
Sternum					trapezium							
Ribs					trapezoid							

Figure 3.93. Skeletal Summary 106Ba

106Bb
 Sex: Male
 Age: Adult
 Ancestry: indeterminate
 Height: indeterminate
 Skeletal Pathology: none observed
 Dental Pathology: indeterminate



106Bb Skeletal Elements Represented												
Element	Axial	Left	Right	Indet.	Element	Left	Right	Indet.	Element	Left	Right	Indet.
Name	MNE	MNE	MNE	MNE	Name	MNE	MNE	MNE	Name	MNE	MNE	MNE
Skull					Teeth				capitate			
frontal					upper I1				hamate			
parietal					upper I2				Metacarpals			
occipital					upper C				Phalanges			
temporal					upper PM1				proximal			
sphenoid					upper PM2				middle			
zygomatic					upper M1				distal			
maxilla					upper M2				Lower Limb			
palatine					upper M3				os coxae			
nasal					lower I1				femur		1	
ethmoid					lower I2				tibia	1	1	
lacrimial					lower C				fibula		1	
vomer					lower PM1				patella			
mandible					lower PM2				Ankle			
hyoid					lower M1				talus			
Vertebrae					lower M2				calcaneus			
cervical					lower M3				navicular			
c1					Upper Limb				medial cun.			
c2					clavicle				interm. cun.			
c3-7					scapula				lat.cuneiform			
thoracic					humerus				cuboid			
t1-t12					radius				Metatarsals			
lumbar					ulna				Phalanges			
l1-5					Wrist				proximal			
sacral					scaphoid				middle			
s1					lunate				distal			
s2-5					triquetrum							
coccyx					pisiform							
Sternum					trapezium							
Ribs					trapezoid							

Figure 3.94. Skeletal Summary 106Bb

RECOVERY 107B

Mortuary Attributes

Burial Orientation

The burial was oriented with the head to the southwest and the feet to the northeast.

Coffin Shape and Size

The remnants of the coffin and/or distinct outline of differently colored soil indicated that the coffin was hexagonal in shape. It was 71 inches (180.34) long, 12 inches (30.48 cm) at its maximum width and 9 inches (22.86 cm) at its minimum width.

Hardware

Four fragments of three swing bail handles were recovered.

Cultural Attributes

Clothing

Eight ceramic, four-hole, dish-style buttons were recovered, along with five ferrous, metal buttons. One ferrous buckle was also recovered.

Other Personal Artifacts

No other personal artifacts were recovered.

Other Inclusions or Offerings

No other inclusions or offerings were recovered.

Relevant Field Notes

The recovery was removed in a block of matrix from the pelvis to the skull, with the lower limbs removed prior.

Summary and Estimated Date of Burial

Prosser process buttons were manufactured between 1849 and 1910, while the interment dates of the cemetery were between 1879 and 1922. The estimated date of burial is between 1879 and 1910.

Osteological Attributes

Inventory and Preservation

This individual was represented by a fragmented cranium, dentition and about 70% of the post-cranial skeleton (Figure 3.95). The bone is in good condition, but fragmented.

Age

The age of the individual was determined to be an adult based on the complete eruption of the mandibular third molars (>21 years).

Sex

The sex of the individual was determined to be a possible male based on the maximum diameter of the femoral head (48.5 mm).

Stature

Could not be determined due to missing elements.

Ancestry

Could not be determined due to missing elements.

Skeletal Pathology

No pathological conditions were observed on the recovered remains.

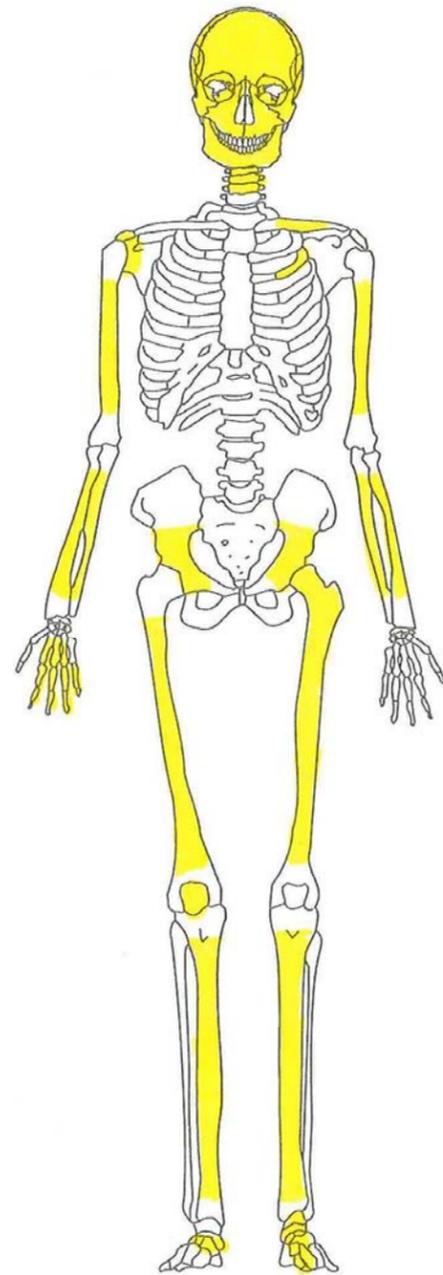
Dental Pathology

Most of the dentition was recovered and exhibited minor wear. A carious lesion was observed on the distal interproximal surface of the left mandibular first molar. Hypoplasias in the form of linear horizontal grooves were observed 4.65 mm from the CEJ on the left maxillary first incisor and 5.30 mm from the CEJ on the right maxillary first incisor. The left mandibular canine exhibited hypoplasia in the form of linear vertical grooves.

Osteological Summary for 107B

This individual is represented by a partial skull with dentition and limb bones. The individual was determined to be a possible male adult with carious lesions, hypoplasias and minor dental wear.

107B
 Sex: Male
 Age: Adult
 Ancestry: indeterminate
 Height: indeterminate
 Skeletal Pathology: none observed
 Dental Pathology: Carious Lesions, Hypoplasias



107B Skeletal Elements Represented												
Element Name	Axial MNE	Left MNE	Right MNE	Indet. MNE	Element Name	Left MNE	Right MNE	Indet. MNE	Element Name	Left MNE	Right MNE	Indet. MNE
Skull					Teeth				capitate			
frontal	1				upper I1	1	1		hamate			
parietal		1	1		upper I2	1	1		Metacarpals		3	
occipital	1				upper C	1	1		Phalanges			
temporal		1	1		upper PM1	1	1		proximal		2	
sphenoid					upper PM2	1	1		middle		4	
zygomatic		1	1		upper M1	1	1		distal			
maxilla		1	1		upper M2		1		Lower Limb			
palatine					upper M3		1		os coxae	1	1	
nasal		1	1		lower I1	1	1		femur	1	1	
ethmoid					lower I2	1			tibia	1	1	
lacrimial					lower C	1			fibula			
vomer					lower PM1	1	1		patella		1	
mandible	1				lower PM2		1		Ankle			
hyoid					lower M1	1			talus			1
Vertebrae					lower M2	1			calcaneus			
cervical					lower M3	1			navicular	1	1	
c1	1				Upper Limb				medial cun.			
c2	1				clavicle			1	interm. cun.			
c3-7	1				scapula		1		lat.cuneiform			
thoracic					humerus	1	1		cuboid			
t1-t12	1				radius	1	1		Metatarsals			
lumbar					ulna	1	1		Phalanges			
l1-5					Wrist				proximal			
sacral					scaphoid				middle			
s1					lunate				distal			
s2-5					triquetrum							
coccyx					pisiform							
Sternum					trapezium							
Ribs				1	trapezoid							

Figure 3.95. Skeletal Summary 107B

RECOVERY 108B

Mortuary Attributes

Burial Orientation

No burial was present.

Coffin Shape and Size

No coffin was present.

Hardware

No hardware was recovered.

Cultural Characteristics

Clothing

No clothing-related artifacts were recovered.

Other Personal Artifacts

No other personal artifacts were recovered.

Other Inclusions or Offerings

Fragments of a clear, decorative, pressed glass lidded jar were recovered along with osteological elements.

Relevant Field Notes

The glass jar was encountered in a shallow area near the edge of the original entry road to the Los Angeles County Cemetery from 1st Street.

Summary and Estimated Date of Burial

This feature consists of a medical waste jar with foot elements. No artifacts were recovered that could accurately estimate the date of disposal.

Osteological Attributes

Inventory and Preservation

This individual is represented by two metatarsals, a calcaneus and a navicular (Figure 3.96). The bone is fragmented and in poor condition.

Age

Could not be determined due to missing elements.

Sex

Could not be determined due to missing elements.

Stature

Could not be determined due to missing elements.

Ancestry

Could not be determined due to missing elements.

Skeletal Pathology

No pathological conditions were observed on the recovered remains.

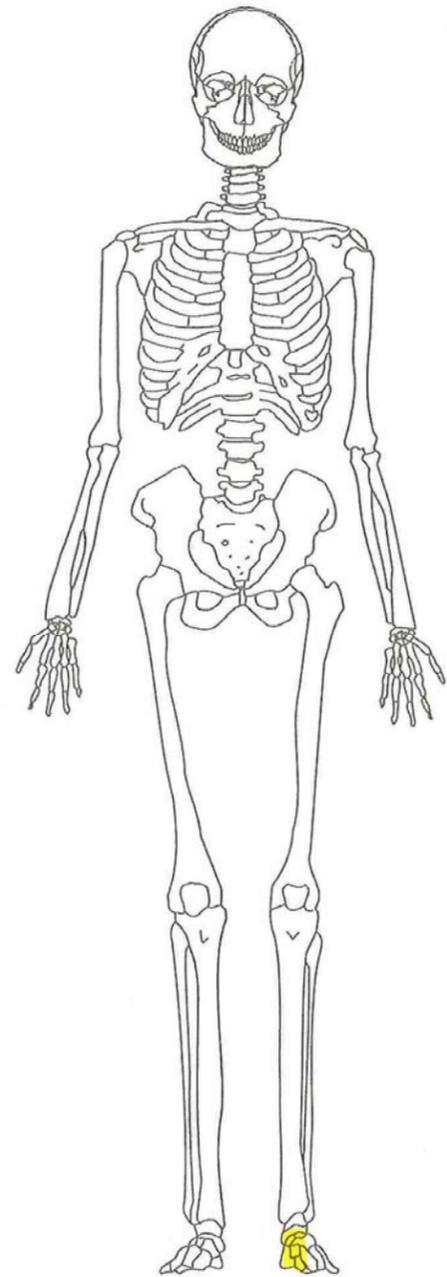
Dental Pathology

Could not be determined due to missing elements.

Osteological Summary for 108B

This individual was represented by only by foot bones and no biological profile could be determined due to missing elements.

108B
 Sex: indeterminate
 Age: indeterminate
 Ancestry: indeterminate
 Height: indeterminate
 Skeletal Pathology: none observed
 Dental Pathology: indeterminate



108B Skeletal Elements Represented												
Element Name	Axial MNE	Left MNE	Right MNE	Indet. MNE	Element Name	Left MNE	Right MNE	Indet. MNE	Element Name	Left MNE	Right MNE	Indet. MNE
Skull					Teeth				capitate			
frontal					upper I1				hamate			
parietal					upper I2				Metacarpals			
occipital					upper C				Phalanges			
temporal					upper PM1				proximal			
sphenoid					upper PM2				middle			
zygomatic					upper M1				distal			
maxilla					upper M2				Lower Limb			
palatine					upper M3				os coxae			
nasal					lower I1				femur			
ethmoid					lower I2				tibia			
lacrimial					lower C				fibula			
vomer					lower PM1				patella			
mandible					lower PM2				Ankle			
hyoid					lower M1				talus			
Vertebrae					lower M2				calcaneus			1
cervical					lower M3				navicular			1
c1					Upper Limb				medial cun.			
c2					clavicle				interm. cun.			
c3-7					scapula				lat.cuneiform			
thoracic					humerus				cuboid			
t1-t12					radius				Metatarsals			2
lumbar					ulna				Phalanges			
l1-5					Wrist				proximal			
sacral					scaphoid				middle			
s1					lunate				distal			
s2-5					triquetrum							
coccyx					pisiform							
Sternum					trapezium							
Ribs					trapezoid							

Figure 3.96. Skeletal Summary 108B

RECOVERY 109B

Mortuary Attributes

Burial Orientation

The burial was oriented with the head to the southwest and the feet to the northeast.

Coffin Shape and Size

The remnants of the coffin and/or distinct outline of differently colored soil indicated that the coffin was hexagonal in shape. The burial was impacted, hindering an accurate determination of size.

Hardware

Five non-diagnostic nail fragments were discarded.

Cultural Attributes

Clothing

One ceramic, four-hole, dish-style button was recovered from the pelvic region

Other Personal Artifacts

No other personal artifacts were recovered.

Other Inclusions or Offerings

No other inclusions or offerings were recovered.

Summary and Estimated Date of Burial

Prosser process buttons were manufactured between 1849 and 1910, while the interment dates of the cemetery were between 1879 and 1922. The estimated date of burial is between 1879 and 1910.

Osteological Attributes

Inventory and Preservation

This individual is represented by upper limb and foot bones in fair, but fragmented condition (Figure 3.97).

Age

Could not be determined due to missing elements.

Sex

Could not be determined due to missing elements.

Stature

Could not be determined due to missing elements.

Ancestry

Could not be determined due to missing elements.

Skeletal Pathology

No pathological conditions were observed on the recovered remains.

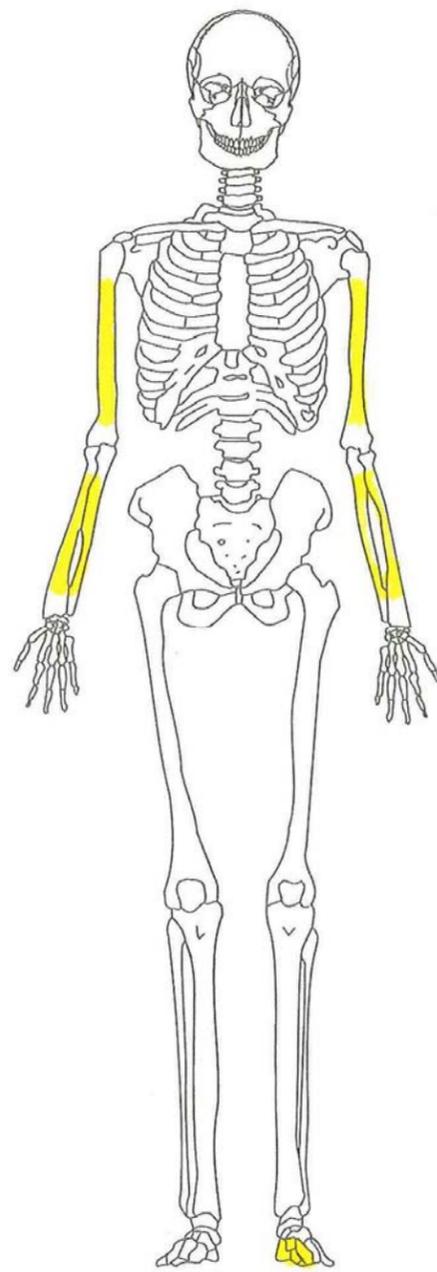
Dental Pathology

Could not be determined due to missing elements

Osteological Summary for 109B

This individual was represented by upper limb and foot bones and the biological profile could not be determined due to missing elements.

109B
 Sex: indeterminate
 Age: indeterminate
 Ancestry: indeterminate
 Height: indeterminate
 Skeletal Pathology: none observed
 Dental Pathology: indeterminate



109B Skeletal Elements Represented												
Element Name	Axial MNE	Left MNE	Right MNE	Indet. MNE	Element Name	Left MNE	Right MNE	Indet. MNE	Element Name	Left MNE	Right MNE	Indet. MNE
Skull					Teeth				capitate			
frontal					upper I1				hamate			
parietal					upper I2				Metacarpals			
occipital					upper C				Phalanges			
temporal					upper PM1				proximal			
sphenoid					upper PM2				middle			
zygomatic					upper M1				distal			
maxilla					upper M2				Lower Limb			
palatine					upper M3				os coxae			
nasal					lower I1				femur			
ethmoid					lower I2				tibia			
lacrimial					lower C				fibula			
vomer					lower PM1				patella			
mandible					lower PM2				Ankle			
hyoid					lower M1				talus			
Vertebrae					lower M2				calcaneus			
cervical					lower M3				navicular			
c1					Upper Limb				medial cun.			
c2					clavicle				interm. cun.			
c3-7					scapula				lat.cuneiform			
thoracic					humerus	1	1		cuboid			
t1-t12					radius	1	1		Metatarsals			3
lumbar					ulna	1	1		Phalanges			
l1-5					Wrist				proximal			
sacral					scaphoid				middle			
s1					lunate				distal			
s2-5					triquetrum							
coccyx					pisiform							
Sternum					trapezium							
Ribs					trapezoid							

Figure 3.97. Skeletal Summary 109B

RECOVERY 110B

Mortuary Attributes

Burial Orientation

The orientation could not be determined.

Coffin Shape and Size

The remnants of the coffin and/or distinct outline of differently colored soil indicated that the coffin was rectangular in shape. It was 67 inches (170.18 cm) long and 27 inches (68.58 cm) wide. One fragment of coffin wood with cream-colored or yellow paint was recovered.

Hardware

Six fragments of four swing bail handles, twenty-one fragments of a light aqua plate glass viewing window, two thumbscrews, one escutcheon and one coffin plaque reading REST IN PEACE were recovered. Three non-diagnostic nail fragments were discarded.

Cultural Attributes

Clothing

No clothing-related artifacts were recovered.

Other Personal Artifacts

No other personal artifacts were recovered.

Other Inclusions or Offerings

One amber glass bottle fragment with unidentified contents and manufacture was recovered with embossed lettering reading LA.../SALE....

Relevant Field Notes

Recovery 111B was found partially overlying this recovery.

Summary and Estimated Date of Burial

The coffin plaque had a patent date of 1879 while swing bail handles were used between the 1850s and the 1910s. The estimated date of burial is between 1879 and 1920.

Osteological Attributes

No bone was observed or recovered.

RECOVERY 111B

Mortuary Attributes

Burial Orientation

The burial was oriented with the head to the southwest and the feet to the northeast.

Coffin Shape and Size

The remnants of the coffin and/or distinct outline of differently colored soil indicated that the coffin was hexagonal in shape. It was 75 inches (190.5 cm) long, 17 inches (43.18 cm) at its maximum width and 4 inches (10.16 cm) at its minimum width. Two non-diagnostic coffin wood fragments were discarded.

Hardware

One thumbscrew and four stamped tin coffin studs were recovered. Twelve non-diagnostic nail fragments were discarded.

Cultural Attributes

Clothing

Forty-seven Chinese-style ball buttons and one ferrous button were recovered. Two ceramic four-hole buttons, one dish-style and one pie crust-style, were recovered. Also recovered were fragments of a brown, woven fabric, two ferrous buckles, one half of a braided Chinese clothing toggle and two unidentified discs screwed together with garment fragments in between.

Other Personal Artifacts

One bracelet without a clasp was recovered. An attached charm with a Chinese blessing translates as, "Precious, Long Life". This is a traditional child's bracelet. Ten beads were recovered: six hollow, glass beads, two tiny, hollow, glass beads and two small, stone beads. Two fragments of a coin purse frame were also recovered.

Other Inclusions or Offerings

One whole, clear glass pharmaceutical bottle manufactured on a cup-bottom mold with a tooled, prescription style finish was recovered. The embossed lettering reads JA BAUER/CHEMIST/SAN FRANCISCO//4. Thirteen fragments of a clear glass liquor bottle manufactured on a cup-bottom mold were found scattered throughout the coffin. One fragment of an olive-green glass wine or champagne bottle of unidentified manufacture was recovered. Fragments of unidentified, ferrous metal were recovered as was one unidentified, ferrous, circular and hollow metal object. One fragment of unidentified, non-ferrous, flat, concave metal, two small, flat fragments of clear glass with remnants of paper attached were recovered and two tiny fragments of an olive-green glass bottle with unidentified contents and manufacture were discarded. Two fragments of one spoon with partial lettering reading ...EA SON and one fragment of a Euro-American porcelain container were recovered.

A marble headstone engraved with Chinese characters was recovered also. The writing translates as "tomb of Mr. Jew Fuk Cheong, Ning Yap".

Relevant Field Notes

The recovery was found partially overlying Recovery 110B.

Summary and Estimated Date of Burial

This burial/disinterment has been determined to be Chinese based on the Chinese-style buttons, bracelet, clothing toggle and headstone recovered. The Chinese and western-style buttons, clothing toggle and buckles suggest that the individual was buried in a combination of traditional and non-traditional attire. The headstone indicates the individual was male. The fragments of flat, ferrous metal are possibly the remains of a metal coffin cover used to seal out air, seal in communicable disease or protect against spirits of the dead.

The pharmaceutical bottle dates to between 1885 and 1915. The estimated date of burial is between 1885 and 1915.

Osteological Attributes

No bone was observed or recovered.

RECOVERY 112B

Mortuary Attributes

Burial Orientation

The burial was oriented with the head to the southwest and the feet to the northeast.

Coffin Shape and Size

The remnants of the coffin and/or distinct outline of differently colored soil indicated that the coffin was rectangular in shape. It was collapsed and impacted. The portion remaining was 41 inches (104.14 cm) long and 17 inches (43.18 cm) wide.

Hardware

One thumbscrew was recovered. Seven non-diagnostic nail fragments were discarded.

Cultural Attributes

Clothing

No clothing-related artifacts were recovered.

Other Personal Artifacts

No other personal artifacts were recovered.

Other Inclusions or Offerings

No other inclusions or offerings were recovered.

Summary and Estimated Date of Burial

No artifacts were recovered that could accurately estimate the date of burial. The date of burial is estimated to be between the interment dates of the cemetery, 1879 to 1922.

Osteological Attributes

Inventory and Preservation

This individual is represented by upper and lower limb bones (Figure 3.98). The left upper limb bones and the left and right lower limb bones recovered are in fair condition, but friable.

Age

The age of the individual was determined to be a middle to old adult based on the complete fusion of all epiphyses recovered and the presence of osteoarthritis (>40 years).

Sex

The sex of the individual was determined to be male based on the vertical diameter of the left femoral head (47.55 mm).

Stature

Could not be determined due to missing elements.

Ancestry

Could not be determined due to missing elements.

Skeletal Pathology

Barely discernible osteophytic lipping was observed on the semi-lunar notch of the left ulna and the joint surfaces of the tarsals.

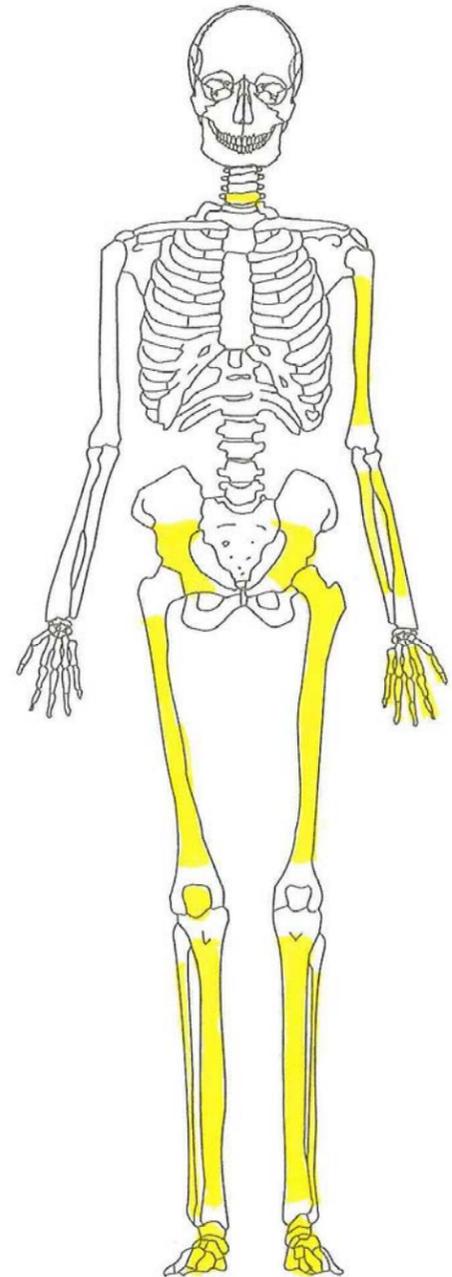
Dental Pathology

Could not be determined due to missing elements.

Osteological Summary for 112B

This individual was represented by upper and lower limb bones and determined to be a middle to old adult male with osteoarthritis.

112B
 Sex: Male
 Age: Middle to Old Adult
 Ancestry: indeterminate
 Height: indeterminate
 Skeletal Pathology: Osteoarthritis
 Dental Pathology: indeterminate



112B Skeletal Elements Represented												
Element Name	Axial MNE	Left MNE	Right MNE	Indet. MNE	Element Name	Left MNE	Right MNE	Indet. MNE	Element Name	Left MNE	Right MNE	Indet. MNE
Skull					Teeth				capitate			
frontal					upper I1				hamate			
parietal					upper I2				Metacarpals	4		
occipital					upper C				Phalanges			
temporal					upper PM1				proximal	5		
sphenoid					upper PM2				middle	2		
zygomatic					upper M1				distal			
maxilla					upper M2				Lower Limb			
palatine					upper M3				os coxae	1	1	
nasal					lower I1				femur	1	1	
ethmoid					lower I2				tibia	1	1	
lacrimial					lower C				fibula	1	1	
vomer					lower PM1				patella		1	
mandible					lower PM2				Ankle			
hyoid					lower M1				talus	1	1	
Vertebrae	1				lower M2				calcaneus	1	1	
cervical					lower M3				navicular	1	1	
c1					Upper Limb				medial cun.	1	1	
c2					clavicle				interm. cun.	1	1	
c3-7					scapula				lat.cuneiform			
thoracic					humerus	1			cuboid	1	1	
t1-t12					radius	1			Metatarsals	3	4	
lumbar					ulna	1			Phalanges			
l1-5					Wrist				proximal	1		
sacral					scaphoid				middle			
s1					lunate				distal			
s2-5					triquetrum							
coccyx					pisiform							
Sternum					trapezium							
Ribs					trapezoid							

Figure 3.98. Skeletal Summary 112B

RECOVERY 113B

Mortuary Attributes

Burial Orientation

The burial was oriented southwest-northeast.

Coffin Shape and Size

The remnants of the coffin and/or distinct outline of differently colored soil indicated that the coffin was rectangular in shape. It was 72 inches (182.88 cm) long and 18 inches (45.72 cm) wide.

Hardware

No hardware was recovered.

Cultural Attributes

Clothing

No clothing-related artifacts were recovered.

Other Personal Artifacts

No other personal artifacts were recovered.

Other Inclusions or Offerings

Four clear glass bottle fragments were recovered; three fragments were from a melted pharmaceutical bottle with a tooled, prescription-style finish. The fourth fragment was from another pharmaceutical bottle with a tooled, prescription-style finish and partial embossing that read JOHN W.../PHILA. Black, brittle, gauzy material was found throughout the burial and stuffed into the cranial fragments. Newspaper fragments were recovered; these were in English but were illegible. An unidentified brass object, possibly a clothing snap, was also recovered, as was a soil sample that included small clumps of a bright, fuschia substance, possibly the remains of an embalming material.

Relevant Field Notes

The recovery was multiple well-preserved skeletons buried together. The quality of the bone, pinkish-purplish matter and gauzy wrapping led archaeologists to conclude that these were most likely from a 'college box' or similar container from a local medical school.

Summary and Estimated Date of Burial

The burial registers record these types of mass burials of incomplete skeletons as "college boxes"; presumably, these were individuals studied at a nearby medical school and later buried at the cemetery.

The bottle fragments date to between 1885 and the 1920s, while the interment dates of the cemetery were between 1879 and 1922. The estimated date of burial is between 1885 and 1922.

Osteological Attributes

Inventory and Preservation

This recovery consists of specimens discarded from a medical school. There is one skull including cranium and mandible, 171 vertebrae, 9 sternum, 221 ribs, 33 long bones from the upper limbs, 27 long bones from the lower limbs, 7 os coxae and several carpals, metacarpals, manual phalanges, tarsals, metatarsals and pedal phalanges. The minimum number of individuals is 12 based on 12 first thoracic vertebrae recovered.

Age

The age of the individual represented by the skull was determined to be an adult based on the complete eruption of the left mandibular third molar (>21 years). All the long bones recovered with epiphyses indicate adult individuals. Two left clavicles represent young adults based on the incomplete fusion of the sternal epiphyses (16-33 years). One left clavicle and one right clavicle represent adults based on the complete fusion of the sternal epiphyses (>21 years).

Sex

The sex of the individual represented by the skull was determined to be male based on the nuchal crest, mastoid process, supraorbital margins, glabella, mental eminence and morphology of the mandible. Two left humeri represent females based on the vertical diameter of the humeral heads (45.87 mm and 46.77 mm). One left and one right humerus represent males based on the epicondylar breadth of the distal humeri (64.04 mm and 64.83 mm). One left scapula and four right scapulae represent males based on the height of the glenoid cavity (37.72 mm, 39.82 mm, 39.33 mm, 39.83 mm and 40.74 mm, respectively).

Stature

The height of an individual represented by a right femur was calculated as 5 feet and 6.0 inches (167.54 cm).

Ancestry

The ancestry of the individual represented by the skull was determined to be Euro-American based on the nasal morphology and the zygomatics.

Skeletal Pathology

One individual represented by a right humerus exhibited a complete fracture of the right humeral head resulting in abnormal bone formation surrounding the head in order to stabilize the joint. Fusion had occurred between head and the shaft, but was rotated 90 degrees posterior-medially at the time of death.

One individual represented by vertebrae exhibited osteophytic spicules around the bodies of the third, fourth and fifth lumbar vertebrae. This individual also had syndesmophytic fusion of the sixth and seventh cervical vertebrae on the anterior and lateral sides of the bodies probably due to stress or trauma.

One individual represented by vertebrae exhibited syndesmophytic fusion on the anterior-lateral sides of the tenth and eleventh thoracic vertebral bodies probably due to stress or trauma.

One individual represented by a right ulna exhibited an osteophytic ridge surrounding 50% of the surface of the trochlear notch.

Dental Pathology

The individual represented by the skull and dentition exhibited moderate dental wear.

Osteological Summary for 113B

The adult individuals recovered are consistent with specimens from a medical school. They are primarily composed of upper and lower limb bones, vertebrae, ribs and one complete skull. The minimum number of individuals is 12. Osteoarthritis was observed on the ulna and several vertebrae and a complete fracture was found on a right humerus. The individual represented by a skull was determined to be an adult male of Euro-American ancestry.

RECOVERY 114B

Mortuary Attributes

Burial Orientation

The burial was oriented with the head to the southwest and the feet to the northeast.

Coffin Shape and Size

The remnants of the coffin and/or distinct outline of differently colored soil indicated that the coffin was hexagonal in shape. It was 72 inches (182.88 cm) long, 24 inches (60.96 cm) at its maximum width and 11 inches (27.94 cm) at its minimum width.

Hardware

Three fragments of two swing bail handles, one thumbscrew and seven stamped tin coffin studs were recovered.

Cultural Attributes

Clothing

Five ceramic, four-hole, dish-style buttons and ten Chinese-style ball buttons were recovered.

Other Personal Artifacts

Fragments from a non-ferrous coin purse frame were recovered.

Other Inclusions or Offerings

Two fragments of amber glass bottles and one fragment of a clear glass bottle, all with unidentified contents and manufacture, were recovered. A coin with a reeded edge and a hole drilled at the top was recovered. Both sides of the coin were illegible but it was likely a U.S. coin possibly used as a pendant. One unidentified non-ferrous, flat disc with fabric attached to one side and a piece of slag was recovered.

Summary and Estimated Date of Burial

This burial/disinterment has been determined to be Chinese based on the Chinese-style buttons recovered. The Chinese and western-style buttons suggest that the individual was buried in a combination of traditional and non-traditional attire.

Prosser process buttons were manufactured between 1849 and 1910, while the interment dates of the cemetery were between 1879 and 1922. The estimated date of burial is between 1879 and 1910.

Osteological Attributes

No bone was observed or recovered.

RECOVERY 115B

Mortuary Attributes

Burial Orientation

The burial was oriented with the head to the southwest and the feet to the northeast.

Coffin Shape and Size

The remnants of the coffin and/or distinct outline of differently colored soil indicated that the coffin was hexagonal in shape. It was impacted; the remaining portion was 37 inches (93.98 cm) long, 11 inches (27.94 cm) at its maximum width and 8 inches (20.32 cm) at its minimum width.

Hardware

One non-diagnostic nail fragment was discarded.

Cultural Attributes

Clothing

No clothing-related artifacts were recovered.

Other Personal Artifacts

No other personal artifacts were recovered.

Other Inclusions or Offerings

One aqua glass bottle fragment with unidentified contents and manufacture was recovered. An unidentified fragment of black rubber or plastic was recovered.

Summary and Estimated Date of Burial

Aqua glass was manufactured between 1905 and 1920. The estimated date of burial/disinterment is between 1905 and 1920.

Osteological Attributes

No bone was observed or recovered.

RECOVERY 116B

Mortuary Attributes

Burial Orientation

The burial was oriented with the head to the southwest and the feet to the northeast.

Coffin Shape and Size

The remnants of the coffin and/or distinct outline of differently colored soil indicated that the coffin was hexagonal in shape. It was 61 inches (154.94 cm) long, 18 inches (45.72 cm) at its maximum width and 10 inches at its minimum width.

Hardware

Three swing bail handles and one thumbscrew were recovered.

Cultural Attributes

Clothing

No clothing-related artifacts were recovered.

Other Personal Artifacts

No other personal artifacts were recovered.

Other Inclusions or Offerings

One Chinese burial brick and another brick fragment, possibly part of a burial brick, were recovered. The writing on the burial brick translated as “tomb of Mr. Chew Kei Uet, multiple generation resident of Hoi An, Ning Yap”. Also recovered were one Chinese wen and one amber glass bottle fragment with unidentified contents and manufactured on an automatic bottle machine with a packer-style finish.

Summary and Estimated Date of Burial

This burial has been determined to be Chinese based on the Chinese burial brick and the Chinese coin recovered. The glass bottle fragment was manufactured after 1924 and is probably trash.

Swing bail handles were used between the 1850s and the 1910s, while the interment dates of the cemetery were between 1879 and 1922. The estimated date of burial is between 1879 and 1920.

Osteological Attributes

No bone was observed or recovered.

RECOVERY 117B

Mortuary Attributes

Burial Orientation

The burial was oriented with the head to the southwest and the feet to the northeast.

Coffin Shape and Size

The remnants of the coffin and/or distinct outline of differently colored soil indicated that the coffin was hexagonal in shape. It was 67 inches (170.18 cm) long, 15 inches (38.1 cm) at its maximum width and 9 inches (22.86 cm) at its minimum width. One fragment of coffin wood with remnants of cream-colored paint was recovered.

Hardware

Three swing bail handles, three thumbscrews and one stamped tin coffin stud were recovered.

Cultural Attributes

Clothing

No clothing-related artifacts were recovered.

Other Personal Artifacts

Three highly-polished stone discs with holes in the centers, possibly jade, were recovered as well as two fragments from one non-ferrous, carved hoop earring.

Other Inclusions or Offerings

One Seated Liberty dime, illegible on both sides, was recovered. One fragment of unidentified, amorphous metal was recovered.

Summary and Estimated Date of Burial

This burial has been determined to be Chinese based on the stone discs recovered. Two of the stone discs probably would have slipped over the earrings and the third would have been worn as a pendant. This female jewelry is consistent with the osteological results which indicate the individual was an adult Asian female.

Swing bail handles were used between the 1850s and the 1910s, while the interment dates of the cemetery were between 1879 and 1922. The estimated date of burial is between 1879 and 1920.

Osteological Attributes

Inventory and Preservation

This individual is represented by a partial skull and 50% of the post-cranial skeleton (Figure 3.99). The skull consists of the cranial vault and mandible, which are in fair condition, but fragmented. The post-cranial skeleton consists of upper and lower limb bones in fair condition, but fragmented.

Age

The age of the individual was determined to be an adult based on the complete fusion of the proximal epiphyses of the left and right tibia (>22 years)

Sex

The sex of the individual was determined to be female based on the mastoid processes, supraorbital margin, glabella, mental eminence, mandibular morphology and the greater sciatic notch of the left os coxa.

Stature

Could not be determined due to missing elements.

Ancestry

The ancestry of the individual was determined to be Asian based on nasal morphology and shovel shaped incisors.

Skeletal Pathology

No pathological conditions were observed on the recovered remains.

Dental Pathology

The left maxillary first molar and the right mandibular first molar were lost antemortem. The front teeth and molars all exhibit minor dental wear. Carious lesions were found on the occlusal surfaces of the left and right mandibular second molars.

Osteological Summary for 117B

This individual was represented by a partial skull, dentition and limb bones. This recovery was determined to be an adult female of Asian ancestry with antemortem tooth loss, carious lesions and minor dental wear.

117B

Sex: Female

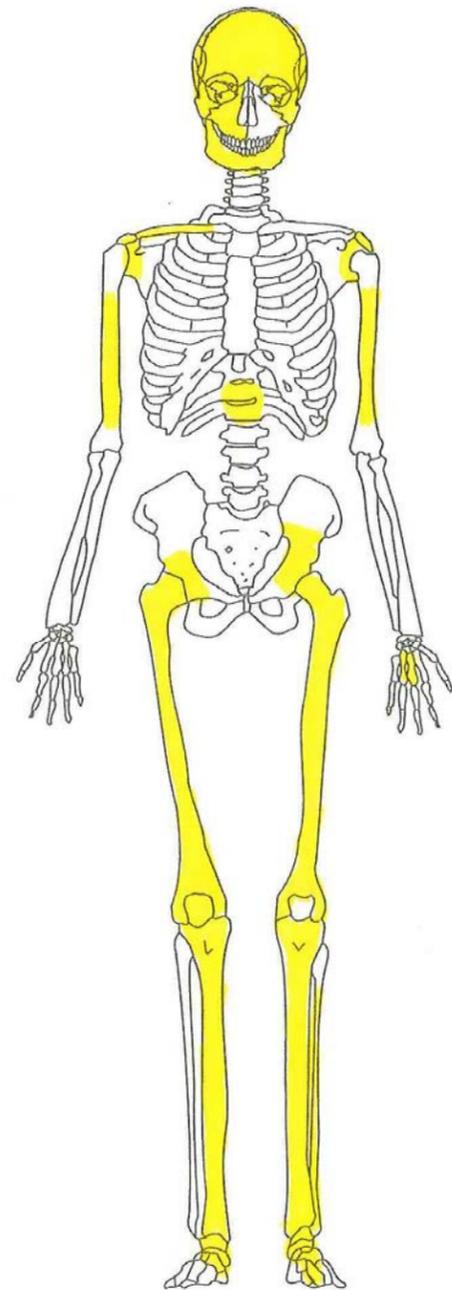
Age: Adult

Ancestry: Asian

Height: indeterminate

Skeletal Pathology: none observed

Dental Pathology: Antemortem Tooth Loss, Carious Lesions



117B Skeletal Elements Represented												
Element Name	Axial MNE	Left MNE	Right MNE	Indet. MNE	Element Name	Left MNE	Right MNE	Indet. MNE	Element Name	Left MNE	Right MNE	Indet. MNE
Skull					Teeth				capitate			
frontal	1				upper I1				hamate			
parietal		1	1		upper I2				Metacarpals			2
occipital	1				upper C	1			Phalanges			
temporal		1	1		upper PM1	1			proximal			
sphenoid	1				upper PM2	1			middle			
zygomatic		1	1		upper M1				distal			
maxilla			1		upper M2	1			Lower Limb			
palatine					upper M3				os coxae	1	1	
nasal					lower I1				femur	1	1	
ethmoid					lower I2	1	1		tibia	1	1	
lacrimial					lower C	1	1		fibula	1		
vomer					lower PM1	1	1		patella		1	
mandible	1				lower PM2	1	1		Ankle			
hyoid					lower M1	1			talus	1	1	
Vertebrae					lower M2	1	1		calcaneus	1	1	
cervical					lower M3	1	1		navicular		1	
c1					Upper Limb				medial cun.			
c2					clavicle		1		interm. cun.			
c3-7					scapula	1	1		lat.cuneiform			
thoracic					humerus	1	1		cuboid			
t1-t12	3				radius				Metatarsals	2		
lumbar					ulna				Phalanges			
l1-5					Wrist				proximal			
sacral					scaphoid				middle			
s1					lunate				distal			
s2-5					triquetrum							
coccyx					pisiform							
Sternum					trapezium							
Ribs					trapezoid							

Figure 3.99. Skeletal Summary 117B

RECOVERY 118B

Mortuary Attributes

Burial Orientation

The burial was oriented with the head to the southwest and the feet to the northeast.

Coffin Shape and Size

The remnants of the coffin and/or distinct outline of differently colored soil indicated that the coffin was hexagonal in shape. It was 67 inches (170.18 cm) long, 16 inches (40.64 cm) at its maximum width and 9 inches (22.86 cm) at its minimum width.

Hardware

One swing bail handle and one decorative lug with an attached braided string were recovered, as well as two lotus blossom ornaments. One thumbscrew was also recovered.

Cultural Attributes

Clothing

No clothing-related artifacts were recovered.

Other Personal Artifacts

No other personal artifacts were recovered.

Other Inclusions or Offerings

No other inclusions or offerings were recovered.

Summary and Estimated Date of Burial

This burial has been determined to be Chinese based on the decorative lug and lotus blossom ornaments, unique to Chinese coffins, recovered.

Swing bail handles were used between the 1850s and the 1910s, while the interment dates of the cemetery were between 1879 and 1922. The estimated date of burial is between 1879 and 1920.

Osteological Attributes

No bone was recovered or collected.

RECOVERY 119B

Mortuary Attributes

Burial Orientation

The burial was oriented with the head to the southwest and the feet to the northeast.

Coffin Shape and Size

The remnants of the coffin and/or distinct outline of differently colored soil indicated that the coffin was hexagonal in shape. It was 69 inches (175.26 cm) long, 18 inches (45.72 cm) at its maximum width and 8 inches (20.32 cm) at its minimum width.

Hardware

One stamped tin coffin stud was recovered.

Cultural Attributes

Clothing

Four ceramic, four-hole, dish-style buttons were recovered along with one ferrous and non-ferrous, four-hole button. Brown, woven fabric garment fragments were recovered.

Other Personal Artifacts

A white stone disc with a hole in the center, possibly an onyx pendant, was recovered.

Other Inclusions or Offerings

One 1860 Seated Liberty dime was recovered. One fragment of an olive-amber glass bottle with unidentified contents and manufacture was recovered.

Summary and Estimated Date of Burial

Prosser process buttons were manufactured between 1849 and 1910, while the interment dates of the cemetery were between 1879 and 1922. The estimated date of burial is between the 1879 and 1910.

Osteological Attributes

Inventory and Preservation

This individual is represented by a cranium with dentition, vertebrae and upper and lower limb bones (Figure 3.100). The bone is in fair condition, but friable.

Age

The age of the individual was determined to be an adolescent based on the complete fusion of the femoral heads (>19 years) and non-erupted left and right maxillary third molars (<21 years).

Sex

The sex of the individual was determined to be a female based on the mastoid processes, supraorbital margins, glabella and greater sciatic notch of the right os coxa.

Stature

Could not be determined due to missing elements.

Ancestry

The ancestry of this individual was determined to be a mix between Asian based on shovel shaped incisors and Euro-American based on nasal morphology.

Skeletal Pathology

No pathological conditions were observed on the recovered remains.

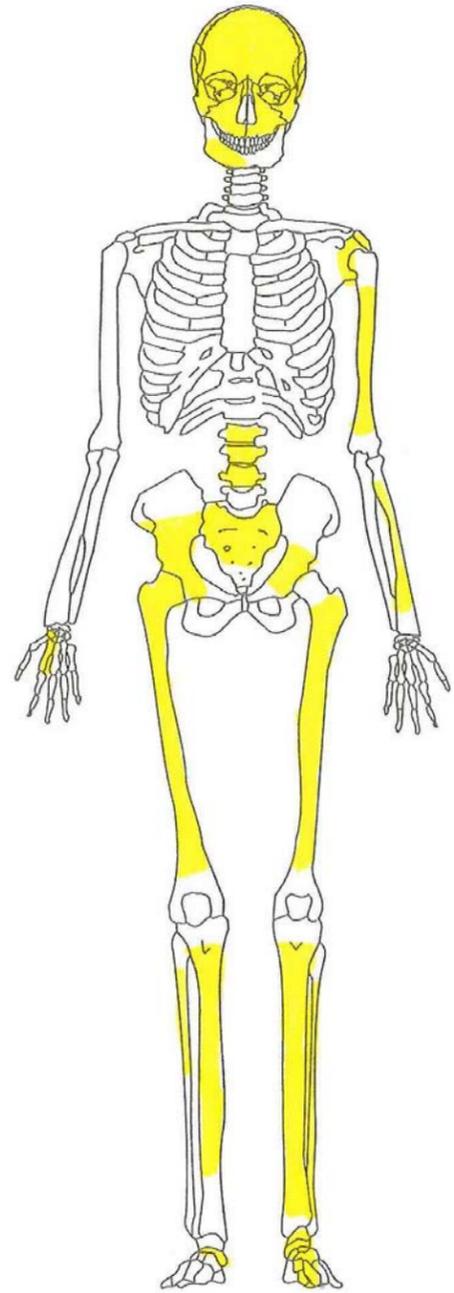
Dental Pathology

Carious lesions were observed on the mesial interproximal surfaces of the left and right maxillary first molars. The anterior teeth exhibited minor dental wear and the molar displayed moderate wear.

Osteological Summary for 119B

This individual was represented by a cranium with dentition, vertebrae and upper and lower limb bones and determined to be an adolescent female of mixed Asian and Euroamerican ancestry with carious lesions and minor to moderate dental wear.

119B
 Sex: Female
 Age: Adolescent
 Ancestry: Mixed
 Height: indeterminate
 Skeletal Pathology: none observed
 Dental Pathology: Carious Lesions



119B Skeletal Elements Represented												
Element Name	Axial MNE	Left MNE	Right MNE	Indet. MNE	Element Name	Left MNE	Right MNE	Indet. MNE	Element Name	Left MNE	Right MNE	Indet. MNE
Skull					Teeth				capitate			
frontal	1				upper I1				hamate			
parietal		1	1		upper I2	1	1		Metacarpals		1	
occipital	1				upper C	1	1		Phalanges			
temporal		1	1		upper PM1	1			proximal			
sphenoid	1				upper PM2				middle			
zygomatic		1	1		upper M1	1	1		distal			
maxilla		1	1		upper M2	1	1		Lower Limb			
palatine		1	1		upper M3				os coxae	1	1	
nasal		1	1		lower I1				femur	1	1	
ethmoid	1				lower I2				tibia	1	1	
lacrimial		1	1		lower C				fibula	1	1	
vomer					lower PM1	1			patella			
mandible	1				lower PM2				Ankle			
hyoid					lower M1				talus	1		
Vertebrae					lower M2				calcaneus	1	1	
cervical					lower M3				navicular			
c1					Upper Limb				medial cun.			
c2					clavicle				interm. cun.			
c3-7					scapula	1			lat.cuneiform			
thoracic					humerus	1			cuboid			
t1-t12					radius	1			Metatarsals	1		
lumbar					ulna				Phalanges			
l1-5	3				Wrist				proximal			
sacral					scaphoid		1		middle			
s1	1				lunate				distal			
s2-5	2				triquetrum							
coccyx					pisiform							
Sternum					trapezium							
Ribs					trapezoid							

Figure 3.100. Skeletal Summary 119B

RECOVERY 120B

Mortuary Attributes

Burial Orientation

The burial was oriented with the head to the southwest and the feet to the northeast.

Coffin Shape and Size

The remnants of the coffin and/or distinct outline of differently colored soil indicated that the coffin was hexagonal in shape. It was 60 inches (152.4 cm) long, 12 inches (30.48 cm) at its maximum width and 7 inches (17.78 cm) at its minimum width.

Hardware

One thumbscrew and one escutcheon were recovered. Four non-diagnostic nails were discarded.

Cultural Attributes

Clothing

One ceramic, four-hole, dish-style button was recovered.

Other Personal Artifacts

No other personal artifacts were recovered.

Other Inclusions or Offerings

Three Chinese wen were recovered.

Summary and Estimated Date of Burial

This burial has been determined to be Chinese based on the Chinese coins recovered.

Prosser process buttons were manufactured between 1849 and 1910, while the interment dates of the cemetery were between 1879 and 1922. The estimated date of burial is between 1879 and 1910.

Osteological Attributes

Inventory and Preservation

This individual is represented by fragments of bones of the left postcranial skeleton in poor condition (Figure 3.101).

Age

The age of the individual was determined to be an adult based on the complete fusion of a humeral head (>23 years).

Sex

Could not be determined due to missing elements.

Stature

Could not be determined due to missing elements.

Ancestry

Could not be determined due to missing elements.

Skeletal Pathology

No pathological conditions were observed on the recovered remains.

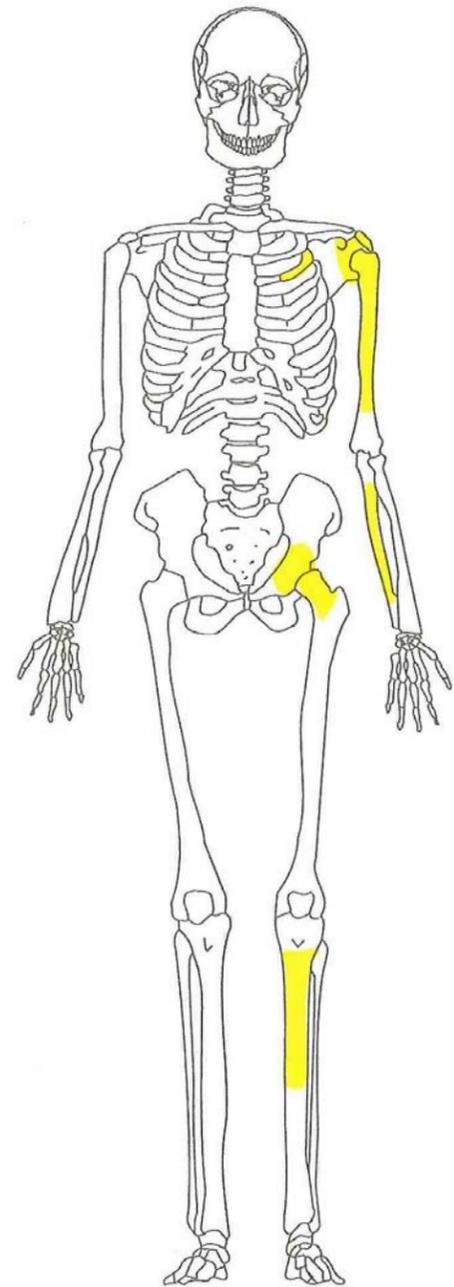
Dental Pathology

Could not be determined due to missing elements.

Osteological Summary for 120B

This individual is represented by fragments of bones of the left postcranial skeleton in poor condition and determined to be an adult.

120B
 Sex: indeterminate
 Age: Adult
 Ancestry: indeterminate
 Height: indeterminate
 Skeletal Pathology: none observed
 Dental Pathology: indeterminate



120B Skeletal Elements Represented												
Element	Axial	Left	Right	Indet.	Element	Left	Right	Indet.	Element	Left	Right	Indet.
Name	MNE	MNE	MNE	MNE	Name	MNE	MNE	MNE	Name	MNE	MNE	MNE
Skull					Teeth				capitate			
frontal					upper I1				hamate			
parietal					upper I2				Metacarpals			
occipital					upper C				Phalanges			
temporal					upper PM1				proximal			
sphenoid					upper PM2				middle			
zygomatic					upper M1				distal			
maxilla					upper M2				Lower Limb			
palatine					upper M3				os coxae			1
nasal					lower I1				femur			1
ethmoid					lower I2				tibia			1
lacrima					lower C				fibula			
vomer					lower PM1				patella			
mandible					lower PM2				Ankle			
hyoid					lower M1				talus			
Vertebrae					lower M2				calcaneus			
cervical					lower M3				navicular			
c1					Upper Limb				medial cun.			
c2					clavicle				interm. cun.			
c3-7					scapula	1			lat.cuneiform			
thoracic					humerus			1	cuboid			
t1-t12					radius				Metatarsals			
lumbar					ulna			1	Phalanges			
l1-5					Wrist				proximal			
sacral					scaphoid				middle			
s1					lunate				distal			
s2-5					triquetrum							
coccyx					pisiform							
Sternum					trapezium							
Ribs				1	trapezoid							

Figure 3.101. Skeletal Summary 120B

RECOVERY 121B

Mortuary Attributes

Burial Orientation

The burial was oriented with the head to the southwest and the feet to the northeast.

Coffin Shape and Size

The coffin was hexagonal in shape. It was 72 inches (182.88cm) long, 18 inches (45.72cm) at its maximum width and 6 inches (15.24cm) at its minimum width.

Hardware

No hardware was recovered.

Cultural Attributes

Clothing

No clothing-related artifacts were recovered.

Other Personal Artifacts

No other personal artifacts were recovered.

Other Inclusions or Offerings

No other inclusions or offerings were recovered.

Summary and Estimated Date of Burial

No artifacts were recovered that could accurately estimate the date of burial. The date of burial is estimated to be between the interment dates of the cemetery, 1879 to 1922.

Osteological Attributes

Inventory and Preservation

This individual is represented by two cranial fragments and a fragmented tibia shaft (Figure 3.102).
The bone is in poor condition.

Age

Could not be determined due to missing elements.

Sex

Could not be determined due to missing elements.

Stature

Could not be determined due to missing elements.

Ancestry

Could not be determined due to missing elements.

Skeletal Pathology

No pathological conditions were observed on the recovered remains.

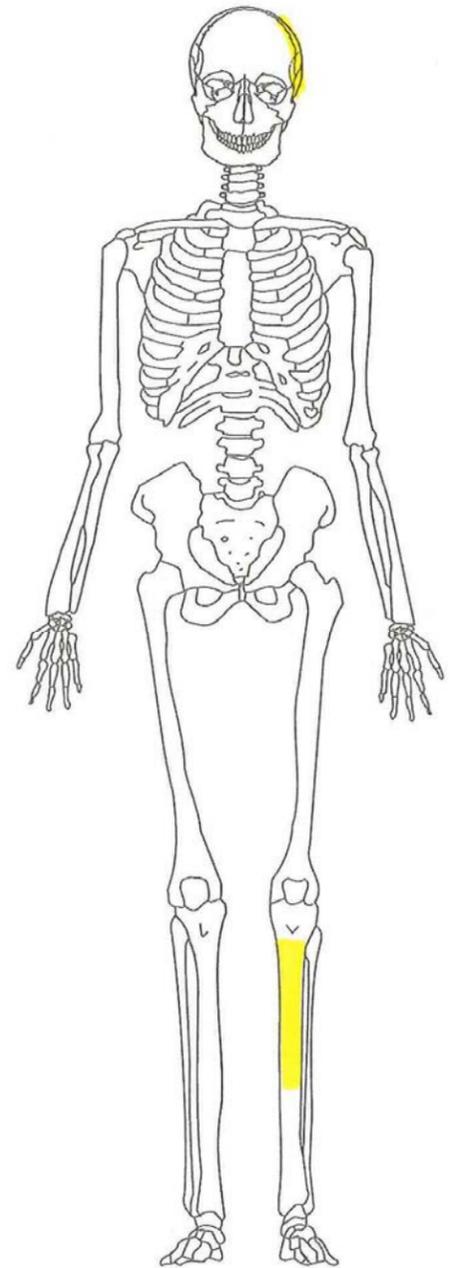
Dental Pathology

Could not be determined due to missing elements.

Osteological Summary for 121B

This individual was represented by cranial and tibia fragments. The biological profile could not be determined due to the missing elements.

121B
 Sex: indeterminate
 Age: indeterminate
 Ancestry: indeterminate
 Height: indeterminate
 Skeletal Pathology: none observed
 Dental Pathology: indeterminate



121B Skeletal Elements Represented												
Element	Axial	Left	Right	Indet.	Element	Left	Right	Indet.	Element	Left	Right	Indet.
Name	MNE	MNE	MNE	MNE	Name	MNE	MNE	MNE	Name	MNE	MNE	MNE
Skull					Teeth				capitate			
frontal					upper I1				hamate			
parietal		1			upper I2				Metacarpals			
occipital					upper C				Phalanges			
temporal		1			upper PM1				proximal			
sphenoid					upper PM2				middle			
zygomatic					upper M1				distal			
maxilla					upper M2				Lower Limb			
palatine					upper M3				os coxae			
nasal					lower I1				femur			
ethmoid					lower I2				tibia			1
lacrimial					lower C				fibula			
vomer					lower PM1				patella			
mandible					lower PM2				Ankle			
hyoid					lower M1				talus			
Vertebrae					lower M2				calcaneus			
cervical					lower M3				navicular			
c1					Upper Limb				medial cun.			
c2					clavicle				interm. cun.			
c3-7					scapula				lat.cuneiform			
thoracic					humerus				cuboid			
t1-t12					radius				Metatarsals			
lumbar					ulna				Phalanges			
l1-5					Wrist				proximal			
sacral					scaphoid				middle			
s1					lunate				distal			
s2-5					triquetrum							
coccyx					pisiform							
Sternum					trapezium							
Ribs					trapezoid							

Figure 3.102. Skeletal Summary 121B

RECOVERY 122B

Mortuary Attributes

Burial Orientation

The burial was oriented with the head to the southwest and the feet to the northeast.

Coffin Shape and Size

The remnants of the coffin and/or distinct outline of differently colored soil indicated that the coffin was hexagonal in shape. It was 72 inches (182.88 cm), 18 inches (45.72 cm) at its maximum width and 12 inches (30.48 cm) at its minimum width.

Hardware

Nine fragments of five swing bail handles and one stamped tin coffin stud were recovered. Three non-diagnostic nail fragments were discarded.

Cultural Attributes

Clothing

One Chinese-style ball button was recovered.

Other Personal Artifacts

No other personal artifacts were recovered.

Other Inclusions or Offerings

Seven olive-green glass bottle fragments with unidentified contents and manufacture were recovered. Two fragments of a sheep bone were recovered.

Relevant Field Notes

The bone had decomposed to a moist, chalky, pasty layer at the base of the fragmentary coffin.

Summary and Estimated Date of Burial

This burial has been determined to be Chinese based on the Chinese-style button recovered. The Chinese-style button suggests that the individual was buried in traditional attire. The sheep bone may be evidence of an offering to the deceased.

Swing bail handles were used between the 1850s and 1910s, while the interment dates of the cemetery were between 1879 and 1922. The estimated date of burial is between 1879 and 1920.

Osteological Attributes

Inventory and Preservation

The bone recovered was too decomposed for identification or analysis.

Age

Could not be determined due to missing elements.

Sex

Could not be determined due to missing elements.

Stature

Could not be determined due to missing elements.

Ancestry

Could not be determined due to missing elements.

Skeletal Pathology

Could not be determined due to missing elements.

Dental Pathology

Could not be determined due to missing elements.

Osteological Summary for 122B

The bone recovered was too decomposed for identification and the biological profile could not be determined.

RECOVERY 123B

Mortuary Attributes

Burial Orientation

The burial was oriented with the head to the southwest and the feet to the northeast.

Coffin Shape and Size

The remnants of the coffin and/or distinct outline of differently colored soil indicated that the coffin was hexagonal in shape. Coffin decomposition hindered an accurate determination of size.

Hardware

Two swing bail handles were recovered. Three non-diagnostic nail fragments were discarded.

Cultural Attributes

Clothing

Two ceramic, four-hole dish-style buttons, four Chinese-style ball buttons, one fabric-covered, ferrous button with a non-ferrous rivet, twenty-four shoe eyelets, multiple shoe fragments (probably rubber), multiple brown, woven fabric garment fragments and a leather hat were recovered.

Other Personal Artifacts

No other personal artifacts were recovered.

Other Inclusions or Offerings

Ten olive-green glass wine or champagne bottle fragments produced on a turn mold, nineteen Chinese wen strung on red string, two unidentified, ferrous fragments resembling a rim and two fragments of one burial brick were recovered. The writing on the burial brick translated as “tomb of Wong Yee, Tung Hou township, Ning Yap”. Multiple unidentified flat, ferrous fragments were discarded.

Summary and Estimated Date of Burial

This burial has been determined to be Chinese based on the Chinese-style buttons, Chinese coins and the burial brick recovered. The fragments of flat, ferrous metal are possibly the remains of a metal coffin cover used to seal out air, seal in communicable disease or protect against spirits of the dead. The Chinese and western-style buttons suggest that the individual was buried in a combination of traditional and non-traditional attire.

Prosser process buttons were manufactured between 1849 and 1910, while turn molds were used between 1890 and 1915. The estimated date of burial is between 1890 and 1910.

Osteological Attributes

No bone was observed or recovered.

RECOVERY 124B

Mortuary Attributes

Burial Orientation

The burial was oriented with the head to the southwest and the feet to the northeast.

Coffin Shape and Size

The remnants of the coffin and/or distinct outline of differently colored soil indicated that the coffin was hexagonal in shape. It was 72 inches (182.88 cm) long, 18 inches (45.72 cm) at its maximum width and 8 inches (20.32 cm) at its minimum width.

Hardware

Three thumbscrews were recovered. Three non-diagnostic coffin nails were discarded.

Cultural Attributes

Clothing

Fragments of fabric and leather, three Chinese-style ball buttons and four ceramic, four-hole, dish-style buttons were recovered.

Other Personal Artifacts

No other personal artifacts were recovered.

Other Inclusions or Offerings

One whole picnic flask produced on a cup-bottom mold with a tooled, double ring-style finish was recovered. Three unidentified, tiny square rods of an unidentified material were found in the garment fragments.

Summary and Estimated Date of Burial

This burial has been determined to be Chinese based on the Chinese-style buttons recovered. The Chinese and western-style buttons suggest that the individual was buried in a combination of traditional and non-traditional attire.

Prosser process buttons were manufactured between 1849 and 1910, while the interment dates of the cemetery were between 1879 and 1922. The estimated date of burial is between 1879 and 1910.

Osteological Attributes

Inventory and Preservation

This individual is represented by a partial skull, dentition and 15% of the post-cranial skeleton (Figure 3.103). The skull consists of the cranial vault, facial bones and mandible, which are in good condition, but fragmented. The upper and lower limb bones are in poor fragmented condition.

Age

The age of the individual was determined to be a young adult based on the recent complete fusion of the humeral heads (23-28 years).

Sex

The sex of the individual was determined to be male based on the mastoid process, supraorbital margin, glabella and cranial vault morphology.

Stature

Could not be determined due to missing elements.

Ancestry

The ancestry of this individual was determined to be a mix between Asian based on shovel shaped incisors and Euro-American based on nasal morphology and the presence of the metopic suture.

Skeletal Pathology

General periosteal bone formation was observed on the shaft fragments of the femur, tibia, fibula and the left and right humeral shafts.

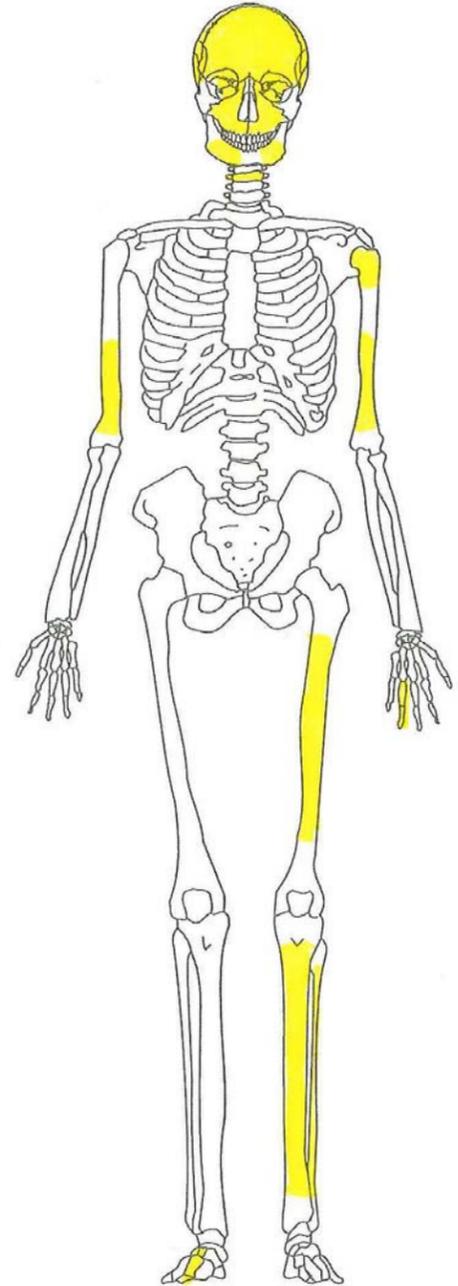
Dental Pathology

Minor dental wear was observed on the teeth recovered. Carious lesions were found on the occlusal surface of the right maxillary canine, the occlusal surface of the right maxillary second molar and the distal interproximal and occlusal surfaces of the left maxillary second molar. Linear horizontal enamel hypoplastic grooves were observed 4.01 mm and 5.23 mm from the CEJ on the left maxillary second incisor, 4.81 mm and 6.68 mm from the CEJ on the left maxillary canine, 4.75 mm from the CEJ of the right maxillary canine, 6.08 mm from the CEJ on the right maxillary first premolar, 5.13 mm from the CEJ on the left mandibular canine and 5.11 mm from the CEJ on the right mandibular canine. A single hypoplastic pit was found on the left maxillary first premolar.

Osteological Summary for 124B

This individual was represented by a skull and some limb bones and determined to be a young adult male of mixed ancestry with periosteal bone formation, carious lesions, hypoplasias and minor dental wear.

124B
 Sex: Male
 Age: Young Adult
 Ancestry: Mixed
 Height: indeterminate
 Skeletal Pathology: Periosteal Bone Formation
 Dental Pathology: Carious Lesions, Hypoplasias



124B Skeletal Elements Represented												
Element Name	Axial MNE	Left MNE	Right MNE	Indet. MNE	Element Name	Left MNE	Right MNE	Indet. MNE	Element Name	Left MNE	Right MNE	Indet. MNE
Skull					Teeth				capitate			
frontal	1				upper I1				hamate			
parietal		1	1		upper I2	1			Metacarpals			
occipital					upper C	1	1		Phalanges			
temporal		1	1		upper PM1	1	1		proximal			1
sphenoid	1				upper PM2	1	1		middle			1
zygomatic					upper M1	1	1		distal			
maxilla		1	1		upper M2	1	1		Lower Limb			
palatine		1	1		upper M3	1			os coxae			
nasal					lower I1				femur			1
ethmoid					lower I2		1		tibia			1
lacrimial					lower C	1	1		fibula			1
vomer					lower PM1	1	1		patella			
mandible	1				lower PM2	1			Ankle			
hyoid					lower M1	1	1		talus			
Vertebrae					lower M2	1	1		calcaneus			
cervical					lower M3	1	1		navicular			
c1					Upper Limb				medial cun.			
c2	1				clavicle				interm. cun.			
c3-7					scapula				lat.cuneiform			
thoracic					humerus	1	1		cuboid			
t1-t12					radius				Metatarsals		1	
lumbar					ulna				Phalanges			
l1-5					Wrist				proximal			
sacral					scaphoid				middle			
s1					lunate				distal			
s2-5					triquetrum							
coccyx					pisiform							
Sternum					trapezium							
Ribs					trapezoid							

Figure 3.103. Skeletal Summary 124B

RECOVERY 125B

Mortuary Attributes

Burial Orientation

The burial was oriented with the head to the southwest and the feet to the northeast.

Coffin Shape and Size

The remnants of the coffin and/or distinct outline of differently colored soil indicated that the coffin was hexagonal in shape. It was 63 inches (160.02 cm) long, 22 inches (55.88 cm) at its maximum width and 12 inches (30.48 cm) at its minimum width.

Hardware

Seven fragments of six swing bail handles, two thumbscrews and three stamped tin coffin studs were recovered.

Cultural Attributes

Clothing

Three Chinese-style ball buttons were recovered near the left humerus.

Other Personal Artifacts

No other personal artifacts were recovered.

Other Inclusions or Offerings

One whole, white porcelain, Chinese-style teapot and lid were recovered in the area of the right humerus, seven olive-green glass bottle fragments with unidentified contents and a tooled, mineral-style finish were recovered in the area of the upper right torso, a whetstone was recovered in the area of the feet and one aqua glass pharmaceutical bottle produced on a post-bottom mold with a ring-style finish was recovered in the area of the feet. The embossed lettering on the bottle read BRISTOL'S/PILLS//VEGETALES//PILDORAS/DE BRISTOL//NEW YORK. In addition, one Seated Liberty dime minted between 1837 and 1891, one Asian coin, one porcelain celadon wine bowl with the Chinese character for 2 on the base, one spoon with fragments of fabric attached and one unidentified, non-ferrous ring attached to a fragment of fabric were all recovered.

Summary and Estimated Date of Burial

This burial/disinterment has been determined to be Chinese based on the Chinese-style buttons, teapot, Asian coin and wine bowl recovered. The Chinese-style buttons suggest that the individual was buried in traditional attire.

Bottles were produced on post-bottom molds between 1885 and the 1910s, while the interment dates of the cemetery were between 1879 and 1922. The estimated date of burial is between 1885 and 1920.

Osteological Attributes

Inventory and Preservation

This individual is represented by upper limb bones in poor fragmented condition (Figure 3.104).

Age

The age of the individual was determined to be an adult based on the complete fusion of the proximal epiphysis of the right radius (>19 years).

Sex

Could not be determined due to missing elements.

Stature

Could not be determined due to missing elements.

Ancestry

Could not be determined due to missing elements.

Skeletal Pathology

No pathological conditions were observed on the recovered remains.

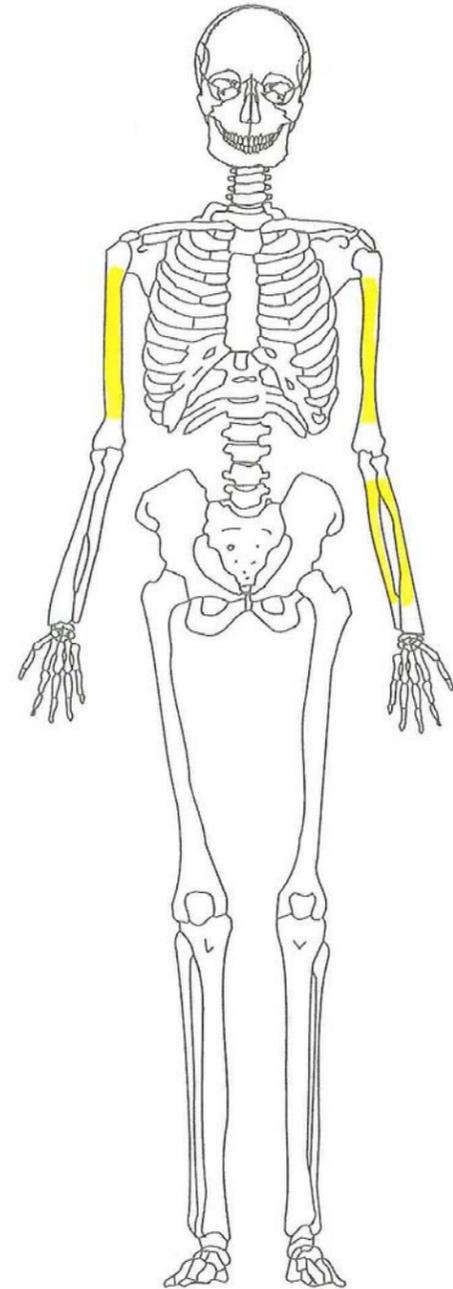
Dental Pathology

Could not be determined due to missing elements.

Osteological Summary for 125B

This individual was represented by fragments of upper limb bones and determined to be an adult.

125B
 Sex: indeterminate
 Age: Adult
 Ancestry: indeterminate
 Height: indeterminate
 Skeletal Pathology: none observed
 Dental Pathology: indeterminate



125B Skeletal Elements Represented												
Element Name	Axial MNE	Left MNE	Right MNE	Indet. MNE	Element Name	Left MNE	Right MNE	Indet. MNE	Element Name	Left MNE	Right MNE	Indet. MNE
Skull					Teeth				capitate			
frontal					upper I1				hamate			
parietal					upper I2				Metacarpals			
occipital					upper C				Phalanges			
temporal					upper PM1				proximal			
sphenoid					upper PM2				middle			
zygomatic					upper M1				distal			
maxilla					upper M2				Lower Limb			
palatine					upper M3				os coxae			
nasal					lower I1				femur			
ethmoid					lower I2				tibia			
lacrimial					lower C				fibula			
vomer					lower PM1				patella			
mandible					lower PM2				Ankle			
hyoid					lower M1				talus			
Vertebrae					lower M2				calcaneus			
cervical					lower M3				navicular			
c1					Upper Limb				medial cun.			
c2					clavicle				interm. cun.			
c3-7					scapula				lat.cuneiform			
thoracic					humerus	1	1		cuboid			
t1-t12					radius	1			Metatarsals			
lumbar					ulna	1			Phalanges			
l1-5					Wrist				proximal			
sacral					scaphoid				middle			
s1					lunate				distal			
s2-5					triquetrum							
coccyx					pisiform							
Sternum					trapezium							
Ribs					trapezoid							

Figure 3.104. Skeletal Summary 125B

RECOVERY 126B

Mortuary Attributes

Burial Orientation

The burial was oriented with the head to the southwest and the feet to the northeast.

Coffin Shape and Size

The remnants of the coffin and/or distinct outline of differently colored soil indicated that the coffin was hexagonal in shape. Length could not be ascertained but it was 18 inches (45.72 cm) at its maximum width and 10 inches (25.4 cm) at its minimum width. Three fragments of coffin wood with remnants of red paint were recovered.

Hardware

Eight fragments of six swing bail handles, two thumbscrews and two decorative brackets were recovered. The brackets were recovered at the foot of the coffin.

Cultural Attributes

Clothing

One brown, woven fabric garment fragment was recovered.

Other Personal Artifacts

One non-ferrous coin purse frame fragment was recovered.

Other Inclusions or Offerings

Three Seated Liberty dimes minted in 1851, 1873 and 1876 and one Shield nickel minted between 1866 and 1883 were recovered. An unidentified, non-ferrous semi-circular fragment was recovered, as were nine olive-green glass bottle fragments with unidentified contents and manufacture and three aqua glass bottle fragments with unidentified contents and manufacture. Also recovered were multiple fragments of sheep bone and two fragments of one Chinese burial brick. The writing on the burial brick translates as "Mr. Yee Wong, Wing Shing village, Tung Hou, between 4 and 5 am, December 11, 1885".

Relevant Field Notes

A partial sheep leg was recovered in the sediments overlying this burial. It is unknown if this represents trash or an offering.

Summary and Estimated Date of Burial

This burial/disinterment has been determined to be Chinese based on the Chinese burial brick recovered. The estimated date of burial is 1885 based on the burial brick.

Osteological Attributes

No bone was observed or recovered.

RECOVERY 127C

Mortuary Attributes

Burial Orientation

The burial was oriented with the head to the southwest and the feet to the northeast.

Coffin Shape and Size

The remnants of the coffin and/or distinct outline of differently colored soil indicated that the coffin was hexagonal in shape. It was 74 inches (187.96 cm), 18 inches (45.72 cm) at its maximum width and 8 inches (20.32 cm) at its minimum width.

Hardware

Fragments from eight stamped tin coffin studs were recovered. Four non-diagnostic nail fragments were discarded.

Cultural Attributes

Clothing

One ferrous shank button and one Chinese-style ball button were recovered.

Other Personal Artifacts

No other personal artifacts were recovered.

Other Inclusions or Offerings

Three glass fragments of a sun-colored amethyst bottle and one aqua glass bottle fragment, both with unidentified contents and manufacture, were recovered.

Summary and Estimated Date of Burial

This burial has been determined to be Chinese based on the Chinese-style button. The Chinese and western-style buttons suggest that the individual was buried in a combination of traditional and non-traditional attire.

Sun-colored amethyst glass was produced between 1905 and the early 1920s, while the interment dates of the cemetery were between 1879 and 1922. The estimated date of burial is between 1905 and 1922.

Osteological Attributes

No bone was observed or recovered.

RECOVERY 128C

Mortuary Attributes

Burial Orientation

The burial was oriented with the head to the southwest and the feet to the northeast.

Coffin Shape and Size

The remnants of the coffin and/or distinct outline of differently colored soil indicated that the coffin was hexagonal in shape. It was 68 inches (172.72 cm) long, 16 inches (40.64 cm) at its maximum width and 8 inches (20.32 cm) at its minimum width. Three wood fragments with remnants of red paint were recovered.

Hardware

Eight fragments of four short bar handles were recovered. One non-diagnostic nail fragment was discarded.

Cultural Attributes

Clothing

One ferrous, four-hole button was found toward the southwest edge of the coffin and one Chinese-style ball button was found in the center of the coffin in the southwest portion.

Other Personal Artifacts

No other personal artifacts were recovered.

Other Inclusions or Offerings

One fragment of a white earthenware dish was recovered.

Summary and Estimated Date of Burial

This burial has been determined to be Chinese based on the Chinese-style button. The Chinese and western-style buttons suggest that the individual was buried in a combination of traditional and non-traditional attire.

Although short bar handles were generally used after 1878, the handles from this burial have patent dates of 1875. The interment dates of the cemetery were between 1879 and 1922. The estimated date of burial is between 1879 and 1922.

Osteological Attributes

No bone was observed or recovered.

RECOVERY 129C

Mortuary Attributes

Burial Orientation

The burial was oriented with the head to the southwest and the feet to the northeast.

Coffin Shape and Size

The remnants of the coffin and/or distinct outline of differently colored soil indicated that the coffin was hexagonal in shape. It was 65 inches (165.1 cm) long, 19 inches (48.26 cm) at its maximum width and 14 inches (35.56 cm) at its minimum width.

Hardware

Four swing bail handles, three thumbscrews, three escutcheons and fourteen stamped tin coffin studs were recovered. Ten non-diagnostic nail fragments were discarded.

Cultural Attributes

Clothing

A leather knot with a small, non-ferrous screw inserted into it was recovered. Four Chinese-style ball buttons and one ferrous buckle were also recovered.

Other Personal Artifacts

A pocket knife was recovered.

Other Inclusions or Offerings

Fragments from a minimum of six Chinese stoneware and Chinese porcelain rice bowls were recovered, three with the Bamboo pattern. Four fragments of a teapot with the Simple Flower and Vine pattern and the teapot lid were recovered. One fragment of a Euro-American, fine earthenware dish was recovered. A few items remain unidentified; four, thin strips of leather that could have been a belt, a flat, metal disc with a screw and fabric attached and another flat, metal disc with a hole in the center, holes around the edge and woven fabric attached to the concave side.

Summary and Estimated Date of Burial

This burial has been determined to be Chinese based on the Chinese-style buttons and the Chinese ceramics recovered. The Chinese-style buttons and the buckle suggest that the individual was buried in a combination of traditional and non-traditional attire.

Swing bail handles were used between the 1850s and the 1910s, while the interment dates of the cemetery were between 1879 and 1922. The estimated date of burial is between 1879 and 1920.

Osteological Attributes

No bone was observed or recovered.

RECOVERY 130C

Mortuary Attributes

Burial Orientation

The burial was oriented with the head to the southwest and the feet to the northeast.

Coffin Shape and Size

Only one small plank of coffin wood with remnants of red paint was found.

Hardware

One thumbscrew was recovered.

Cultural Attributes

Clothing

No clothing-related artifacts were recovered.

Other Personal Artifacts

No other personal artifacts were recovered.

Other Inclusions or Offerings

Fragments of a Chinese teapot with a unique pattern of horses sitting on hills was recovered, as well as a fragment of a Euro-American, vitreous earthenware dish. A whole Hutchinson soda bottle manufactured on a post-bottom mold with a tooled blob finish and Hutchinson spring stopper still in place was also recovered.

Summary and Estimated Date of Burial

This burial has been determined to be Chinese based on the Chinese teapot and the remnants of red paint on the coffin wood. The somewhat unusual presence of a complete soda bottle suggests that the individual was buried with his or her favourite beverage.

The soda bottle was manufactured between the mid-1880s and the mid-1910s. The estimated date of burial is between 1885 and 1915.

Osteological Attributes

Inventory and Preservation

This individual is represented by a mandible and dentition (Figure 3.105). The bone and teeth are in fair condition.

Age

The age of the individual was determined to be an adult based on the complete eruption of the left and right mandibular third molars (>21 years).

Sex

The sex of the individual was determined to be a male based on the mental eminence and morphology of the mandible.

Stature

Could not be determined due to missing elements.

Ancestry

Could not be determined due to missing elements.

Skeletal Pathology

Could not be determined due to missing elements.

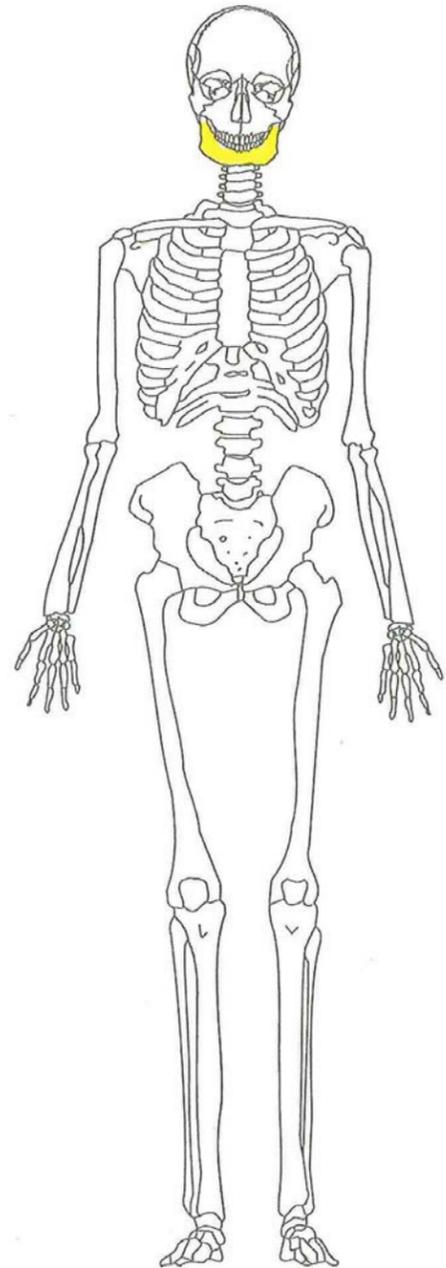
Dental Pathology

The left and right mandibular first molars were lost antemortem. Carious lesions were observed on the mesial interproximal surface of the right mandibular first premolar and the crown was completely destroyed by a carious lesion on the left mandibular second molar. A mandibular abscess was observed in association with a carious lesion inferior to the right mandibular first premolar. Linear horizontal enamel hypoplastic grooves were located 4.75 mm from the CEJ on the left mandibular canine and 6.05 mm from the CEJ on the right mandibular canine. Linear horizontal hypoplastic pitting was also observed on the left mandibular canine.

Osteological Summary for 130C

This individual was represented by a mandible and dentition and determined to be an adult male with antemortem tooth loss, carious lesions, dental abscess and hypoplasias.

130C
 Sex: Male
 Age: Adult
 Ancestry: indeterminate
 Height: indeterminate
 Skeletal Pathology: indeterminate
 Dental Pathology: Dental Abscess, Antemortem Tooth Loss,
 Carious Lesions, Hypoplasias



130C Skeletal Elements Represented												
Element	Axial	Left	Right	Indet.	Element	Left	Right	Indet.	Element	Left	Right	Indet.
Name	MNE	MNE	MNE	MNE	Name	MNE	MNE	MNE	Name	MNE	MNE	MNE
Skull					Teeth				capitate			
frontal					upper I1				hamate			
parietal					upper I2				Metacarpals			
occipital					upper C				Phalanges			
temporal					upper PM1				proximal			
sphenoid					upper PM2				middle			
zygomatic					upper M1				distal			
maxilla					upper M2				Lower Limb			
palatine					upper M3				os coxae			
nasal					lower I1	1	1		femur			
ethmoid					lower I2	1	1		tibia			
lacrimial					lower C	1	1		fibula			
vomer					lower PM1	1	1		patella			
mandible	1				lower PM2	1	1		Ankle			
hyoid					lower M1				talus			
Vertebrae					lower M2	1	1		calcaneus			
cervical					lower M3	1	1		navicular			
c1					Upper Limb				medial cun.			
c2					clavicle				interm. cun.			
c3-7					scapula				lat.cuneiform			
thoracic					humerus				cuboid			
t1-t12					radius				Metatarsals			
lumbar					ulna				Phalanges			
l1-5					Wrist				proximal			
sacral					scaphoid				middle			
s1					lunate				distal			
s2-5					triquetrum							
coccyx					pisiform							
Sternum					trapezium							
Ribs					trapezoid							

Figure 3.105. Skeletal Summary 130C

RECOVERY 131C

Mortuary Attributes

Burial Orientation

The burial was oriented with the head to the southwest and the feet to the northeast.

Coffin Shape and Size

The remnants of the coffin and/or distinct outline of differently colored soil indicated that the coffin was rectangular in shape. It was 75 inches (190.5 cm) long and 18 inches (45.72 cm) wide.

Hardware

Three fragments of one stamped tin coffin stud and one ferrous screw were recovered.

Cultural Attributes

Clothing

Two ceramic buttons were recovered, one four-hole, pie crust-style and one four-hole, dish-style with a painted, teal-green rim. Brown, woven fabric garment fragments were also recovered.

Other Personal Artifacts

No other personal artifacts were recovered.

Other Inclusions or Offerings

Eleven fragments of one light olive-green wine or champagne bottle, produced on a turn mold, were recovered outside of the east side of the coffin. Six unidentified fragments of non-ferrous metal were also recovered.

Relevant Field Notes

The south end of the recovery was only a few inches away from eroding out of the southern slope of the hillside.

Summary and Estimated Date of Burial

Turn molds were used to produce bottles between 1890 and 1915. The estimated date of burial is between 1890 and 1915.

Osteological Attributes

No bone was observed or recovered.

RECOVERY 132C

Mortuary Attributes

Burial Orientation

The burial was oriented southwest-northeast.

Coffin Shape and Size

The burial was heavily impacted, hindering an accurate determination of shape and size.

Hardware

One swing bail handle, two thumbscrews and two escutcheons attached to remnants of red-painted wood were recovered. One non-diagnostic nail fragment was discarded.

Cultural Attributes

Clothing

One ferrous, four-hole button was recovered.

Other Personal Artifacts

No other personal artifacts were recovered.

Other Inclusions or Offerings

Twelve fragments of Chinese fine stoneware rice bowls were recovered, seven with the Bamboo pattern; the remaining pieces were too fragmented for identification. In addition two fragments of an unidentified Chinese porcelain piece and two fragments of a white earthenware, straight-sided jar were recovered. Twenty-five coins were also recovered, twenty-four Vietnamese dong and one Seated Liberty dime. The date on the dime is illegible, but the particular design was minted between 1860 and 1891.

Summary and Estimated Date of Burial

This burial has been determined to be Chinese based on the red-painted wood, Chinese ceramics and the Asian coins. The western-style button suggests that the individual was buried in non-traditional attire.

Swing bail handles were used between the 1850s and the 1910s, while the interment dates of the cemetery were between 1879 and 1922. The estimated date of burial is between 1879 and 1920.

Osteological Attributes

No bone was observed or recovered.

RECOVERY 133C

Mortuary Attributes

Burial Orientation

The burial was oriented east-west.

Coffin Shape and Size

The remnants of the coffin and/or distinct outline of differently colored soil indicated that the coffin was rectangular in shape. It was 26 inches (66.04 cm) long and 14 inches (35.56 cm) wide.

Hardware

No hardware was recovered.

Cultural Attributes

Clothing

No clothing-related artifacts were recovered.

Other Personal Artifacts

No other personal artifacts were recovered.

Other Inclusions or Offerings

No other inclusions or offerings were recovered.

Summary and Estimated Date of Burial

No artifacts were recovered that could accurately estimate the date of burial. The date of burial is estimated to be between the interment dates of the cemetery, 1879 to 1922.

This appears to have been a “college box” of waste specimens from a medical school based on the dimensions of the box and the adult skeletal material recovered.

Osteological Attributes

Inventory and Preservation

The minimum number of individuals for this recovery is two. The Individual A is represented by fragmented cranium and approximately 60% of the post-cranial skeleton (Figure 3.106). The bone is in good and stable condition, but fragmented. Individual B was represented by the distal end of the right humerus.

Age

The age of Individual A was determined to be an adolescent. The individual was primarily aged by epiphyseal unions and secondarily by the sternal ends of the ribs and dental development. The left and right humeral heads were both unfused, the proximal end of the left tibia was recently fused, the ischial epiphysis for the tuberosity was almost completely fused, the epiphyseal rims of the thoracic and lumbar centrums were unfused and recently fused and the sternal end of the right clavicle was

unfused. The left sternal ribs ends and were concluded to be phase one (16.5 – 18 years old). The left mandibular third molar and the left maxillary third molar were recently erupted (~21 years).

Sex

The sex of Individual A was determined to be male based on the greater sciatic notch of the right os coxa.

Stature

Could not be determined due to missing elements.

Ancestry

Could not be determined due to missing elements.

Skeletal Pathology

No pathological conditions were observed on the recovered remains.

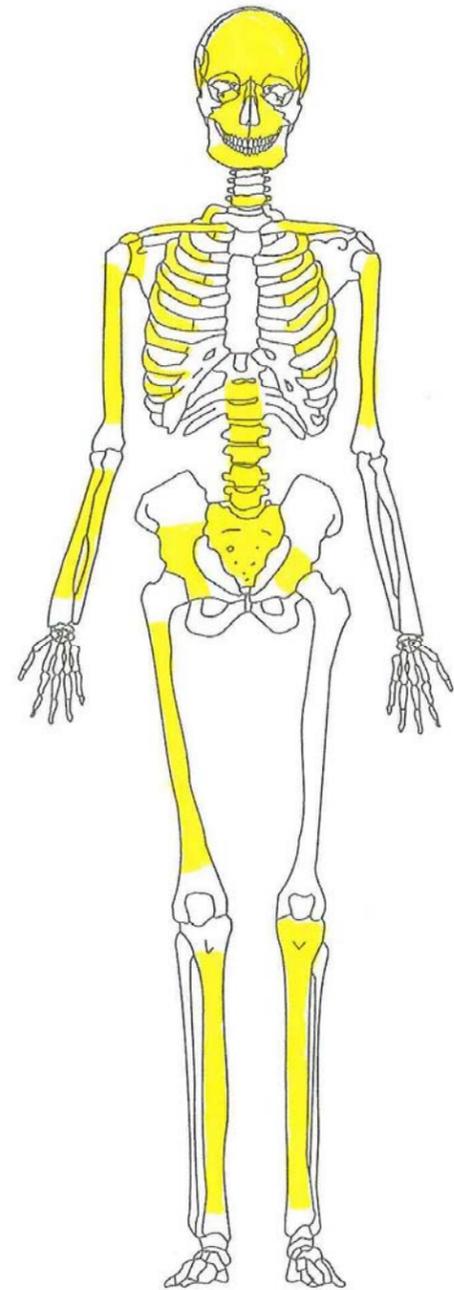
Dental Pathology

The teeth of Individual A recovered exhibited insignificant wear. No dental pathological conditions were observed on the recovered remains.

Osteological Summary for 133C

Individual A was determined to be a male adolescent with insignificant dental wear. Individual B was represented only by a distal right humerus.

133C
 Sex: Male
 Age: Adolescent
 Ancestry: indeterminate
 Height: indeterminate
 Skeletal Pathology: none observed
 Dental Pathology: none observed



133C Skeletal Elements Represented												
Element Name	Axial MNE	Left MNE	Right MNE	Indet. MNE	Element Name	Left MNE	Right MNE	Indet. MNE	Element Name	Left MNE	Right MNE	Indet. MNE
Skull					Teeth				capitate			
frontal	1				upper I1				hamate			
parietal				1	upper I2				Metacarpals			
occipital	1				upper C	1			Phalanges			
temporal		1	1		upper PM1	1			proximal			
sphenoid					upper PM2	1	1		middle			
zygomatic					upper M1	1			distal			
maxilla		1	1		upper M2	1			Lower Limb			
palatine					upper M3	1			os coxae	1	1	
nasal			1		lower I1	1	1		femur			1
ethmoid					lower I2		1		tibia	1	1	
lacrima					lower C	1			fibula			
vomer					lower PM1	1			patella			
mandible	1				lower PM2	1			Ankle			
hyoid					lower M1	1	1		talus			
Vertebrae					lower M2	1	1		calcaneus			
cervical					lower M3	1			navicular			
c1					Upper Limb				medial cun.			
c2					clavicle	1	1		interm. cun.			
c3-7	1				scapula			1	lat.cuneiform			
thoracic					humerus	1	2		cuboid			
t1-t12	12				radius		1		Metatarsals			
lumbar					ulna		1		Phalanges			
l1-5	5				Wrist				proximal			
sacral					scaphoid				middle			
s1					lunate				distal			
s2-5	4				triquetrum							
coccyx					pisiform							
Sternum					trapezium							
Ribs		6	8		trapezoid							

Figure 3.106. Skeletal Summary 133C

RECOVERY 134C

Mortuary Attributes

Burial Orientation

The burial was oriented with the head to the southwest and the feet to the northeast.

Coffin Shape and Size

The remnants of the coffin and/or distinct outline of differently colored soil indicated that the coffin was hexagonal in shape. It was 72 inches (182.88 cm) long, 18 inches (45.72 cm) at its maximum width and 6 inches (15.24 cm) at its minimum width.

Hardware

One small fragment of a swing bail handle was recovered. Six non-diagnostic nail fragments were discarded.

Cultural Attributes

Clothing

One Chinese-style ball button was recovered.

Other Personal Artifacts

No other personal artifacts were recovered.

Other Inclusions or Offerings

One whole stoneware rice bowl with the Bamboo pattern and one opium pipe stem connector were recovered. Multiple fragments of unidentified, ferrous metal were recovered.

Summary and Estimated Date of Burial

This burial has been determined to be Chinese based on the Chinese-style button, Chinese ceramic and opium pipe stem connector recovered. The fragments of flat, ferrous metal are possibly the remains of a metal coffin cover used to seal out air, seal in communicable disease or protect against spirits of the dead.

Swing bail handles were used between the 1850s and the 1910s, while the interment dates of the cemetery were between 1879 and 1922. The estimated date of burial is between 1879 and 1920.

Osteological Attributes

No bone was observed or recovered.

RECOVERY 135C

Mortuary Attributes

Burial Orientation

The burial was oriented with the head to the southwest and the feet to the northeast.

Coffin Shape and Size

The remnants of the coffin and/or distinct outline of differently colored soil indicated that the coffin was hexagonal in shape. It was 72 inches (182.88 cm) long, 18 inches (45.72 cm) at its maximum width and 9 inches (22.86 cm) at its minimum width.

Hardware

Five non-diagnostic nail fragments were discarded.

Cultural Attributes

Clothing

Three fabric-covered, ferrous buttons with non-ferrous rivets were recovered.

Other Personal Artifacts

No other personal artifacts were recovered.

Other Inclusions or Offerings

One fragment of a green glass bottle with unidentified contents and an applied, champagne finish was recovered. One Chinese wen was recovered.

Summary and Estimated Date of Burial

This burial has been determined to be Chinese based on the Chinese coin recovered.

Bottles with applied finishes date to between 1840 and 1885, while the cemetery interment dates were between 1879 and 1922. The estimated date of burial is between 1879 and 1885.

Osteological Attributes

Inventory and Preservation

This individual is represented by cranial fragments, dentition and left lower limb fragments (Figure). The bone is in poor condition and fragmented.

Age

The age of the individual was determined to be an adult based on the complete fusion of the left femoral head (>19 years).

Sex

The sex of the individual was determined to be female based on the greater sciatic notch of the left os coxa and the vertical diameter of the left femoral head (41.80 mm).

Stature

Could not be determined due to missing elements.

Ancestry

The ancestry of the individual was determined to be Asian based on the shovel shape of the incisors.

Skeletal Pathology

No pathological conditions were observed on the recovered remains.

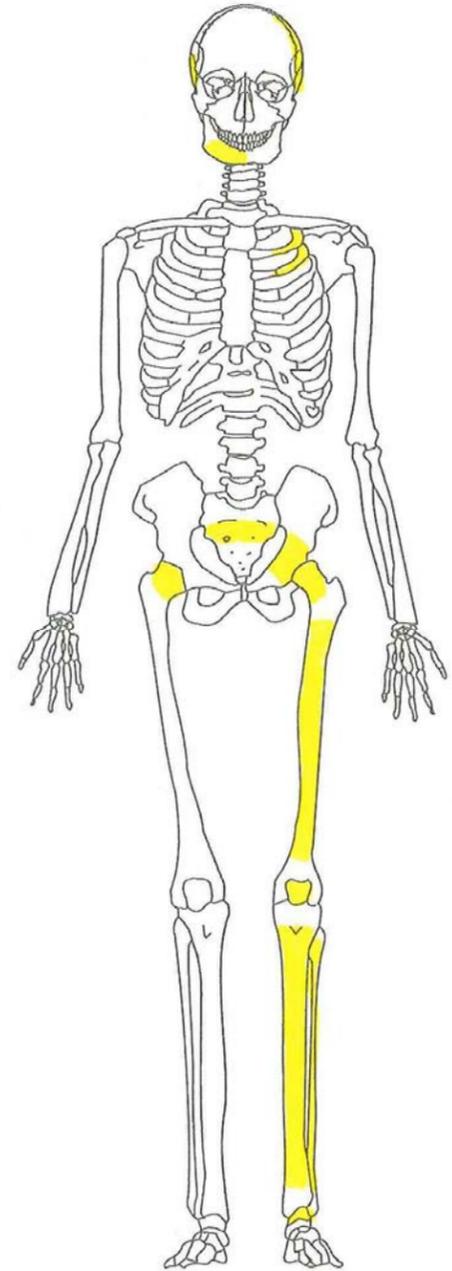
Dental Pathology

No pathological conditions were observed on the recovered remains. Minor to moderate dental wear was observed on the teeth recovered.

Osteological Summary for 135C

This individual was represented by cranial fragments, dentition and lower limb bones and determined to be an adult female of Asian ancestry with minor to moderate dental wear.

135C
 Sex: Female
 Age: Adult
 Ancestry: Asian
 Height: indeterminate
 Skeletal Pathology: none observed
 Dental Pathology: none observed



135C Skeletal Elements Represented												
Element Name	Axial MNE	Left MNE	Right MNE	Indet. MNE	Element Name	Left MNE	Right MNE	Indet. MNE	Element Name	Left MNE	Right MNE	Indet. MNE
Skull					Teeth				capitate			
frontal					upper I1		1		hamate			
parietal				1	upper I2		1		Metacarpals			
occipital					upper C				Phalanges			
temporal		1	1		upper PM1				proximal			
sphenoid					upper PM2				middle			
zygomatic					upper M1	1	1		distal			
maxilla					upper M2				Lower Limb			
palatine					upper M3				os coxae	1		
nasal					lower I1	1	1		femur	1	1	
ethmoid					lower I2		1		tibia			1
lacrima					lower C				fibula			1
vomer					lower PM1		1		patella	1		
mandible					lower PM2		1		Ankle			
hyoid					lower M1		1		talus	1		
Vertebrae	1				lower M2	1			calcaneus			
cervical					lower M3				navicular			
c1					Upper Limb				medial cun.			
c2					clavicle				interm. cun.			
c3-7					scapula				lat.cuneiform			
thoracic					humerus				cuboid			
t1-t12					radius				Metatarsals			
lumbar					ulna				Phalanges			
l1-5					Wrist				proximal			
sacral					scaphoid				middle			
s1					lunate				distal			
s2-5	1				triquetrum							
coccyx					pisiform							
Sternum					trapezium							
Ribs				2	trapezoid							

Figure 3.107. Skeletal Summary 135C

RECOVERY 136C

Mortuary Attributes

Burial Orientation

The burial was oriented with the head to the southwest and the feet to the northeast.

Coffin Shape and Size

The burial was heavily impacted, hindering an accurate determination of coffin shape and size. Only the lower portion was found, measuring 29 inches (73.66 cm) in length and 42 inches (106.68 cm) in width.

Hardware

Three fragments of one short bar handle and one thumbscrew were recovered.

Cultural Attributes

Clothing

Brown, woven fabric garment fragments were recovered.

Other Personal Artifacts

No other personal artifacts were recovered.

Other Inclusions or Offerings

Two fragments of an apple-green glass mineral water bottle with an applied mineral-style finish were recovered.

Summary and Estimated Date of Burial

Applied finishes on bottles date no later than the mid-1890s, while the interment dates of the cemetery were between 1879 and 1922. The estimated date of burial is between 1879 and 1885.

Osteological Attributes

Inventory and Preservation

This individual is represented by a fragmented femur, which is in poor condition (Figure 3.108).

Age

The age of this individual was determined to be an adult based on the size and morphology of the femoral shaft.

Sex

Could not be determined due to missing elements.

Stature

Could not be determined due to missing elements.

Ancestry

Could not be determined due to missing elements.

Skeletal Pathology

No pathological conditions were observed on the recovered remains.

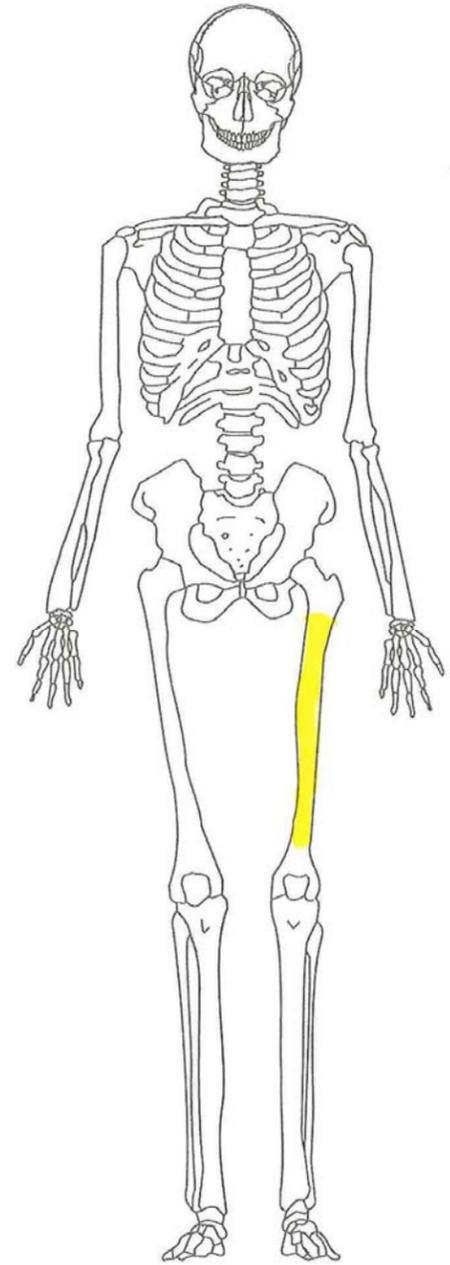
Dental Pathology

Could not be determined due to missing elements.

Osteological Summary for 136C

This individual is represented by a fragmented femur and determined to be an adult.

136C
 Sex: indeterminate
 Age: Adult
 Ancestry: indeterminate
 Height: indeterminate
 Skeletal Pathology: none observed
 Dental Pathology: indeterminate



136C Skeletal Elements Represented												
Element Name	Axial MNE	Left MNE	Right MNE	Indet. MNE	Element Name	Left MNE	Right MNE	Indet. MNE	Element Name	Left MNE	Right MNE	Indet. MNE
Skull					Teeth				capitate			
frontal					upper I1				hamate			
parietal					upper I2				Metacarpals			
occipital					upper C				Phalanges			
temporal					upper PM1				proximal			
sphenoid					upper PM2				middle			
zygomatic					upper M1				distal			
maxilla					upper M2				Lower Limb			
palatine					upper M3				os coxae			
nasal					lower I1				femur			1
ethmoid					lower I2				tibia			
lacrimial					lower C				fibula			
vomer					lower PM1				patella			
mandible					lower PM2				Ankle			
hyoid					lower M1				talus			
Vertebrae					lower M2				calcaneus			
cervical					lower M3				navicular			
c1					Upper Limb				medial cun.			
c2					clavicle				interm. cun.			
c3-7					scapula				lat.cuneiform			
thoracic					humerus				cuboid			
t1-t12					radius				Metatarsals			
lumbar					ulna				Phalanges			
l1-5					Wrist				proximal			
sacral					scaphoid				middle			
s1					lunate				distal			
s2-5					triquetrum							
coccyx					pisiform							
Sternum					trapezium							
Ribs					trapezoid							

Figure 3.108. Skeletal Summary 136C

RECOVERY 137C

Mortuary Attributes

Burial Orientation

The burial was oriented with the head to the southwest and the feet to the northeast.

Coffin Shape and Size

The remnants of the coffin and/or distinct outline of differently colored soil indicated that the coffin was hexagonal in shape. It was 66 inches (167.64 cm) long. The burial was impacted, hindering an accurate determination of the widths.

Hardware

Ten swing bail handles in four different styles were recovered. One escutcheon and one thumbscrew were recovered.

Cultural Attributes

Clothing

No clothing-related artifacts were recovered.

Other Personal Artifacts

No other personal artifacts were recovered.

Other Inclusions or Offerings

Five amber glass bottle fragments with unidentified contents and produced on a turn mold were recovered as well as two olive-green glass bottle fragments with unidentified contents and manufacture. One Chinese burial brick was also recovered. The reverse is stamped J. MULLALLY/LOS ANGELES and the obverse is painted with Chinese characters. The writing translates as "Chow Nui Kam". This is a woman's name.

Summary and Estimated Date of Burial

This burial has been determined to be Chinese based on the burial brick recovered. The number and different styles of coffin handles seem unlikely to all come from one coffin but it is possible.

The Mullally brick dates to 1890, while swing bail handles were used between the 1850s and the 1910s. The estimated date of burial is between 1890 and 1920.

Osteological Attributes

No bone was observed or recovered.

RECOVERY 138C

Mortuary Attributes

Burial Orientation

The burial was oriented with the head to the southwest and the feet to the northeast.

Coffin Shape and Size

No coffin was present.

Hardware

No hardware was recovered.

Cultural Attributes

Clothing

No clothing-related artifacts were recovered.

Other Personal Artifacts

No other personal artifacts were recovered.

Other Inclusions or Offerings

One Chinese wen was recovered.

Summary and Estimated Date of Burial

This burial has been determined to be Chinese based on the wen.

No artifacts were recovered that could accurately estimate the date of burial. The date of burial is estimated to be between the interment dates of the cemetery, 1879 to 1922.

Osteological Attributes

Inventory and Preservation

This individual is represented by cranial vault fragments and a right maxillary second incisor (Figure 3.109). The bone and tooth are in poor condition and friable.

Age

This individual could not be assigned to an age category based on the complete eruption of the right maxillary second incisor (>9 years).

Sex

Could not be determined due to missing elements.

Stature

Could not be determined due to missing elements.

Ancestry

The ancestry of the individual was determined to be Asian based on a shovel shaped incisor.

Skeletal Pathology

No pathological conditions were observed on the recovered remains.

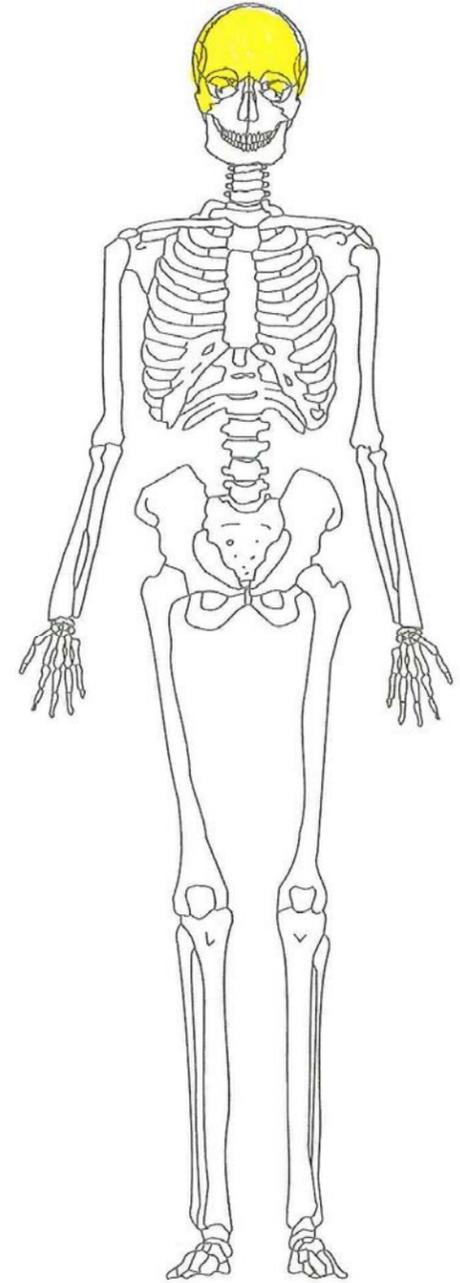
Dental Pathology

No pathological conditions were observed on the recovered remains.

Osteological Summary for 138C

This individual is represented by cranial fragments and a tooth and determined to be an individual of Asian ancestry over the age of nine.

138C
 Sex: indeterminate
 Age: indeterminate
 Ancestry: Asian
 Height: indeterminate
 Skeletal Pathology: none observed
 Dental Pathology: none observed



138C Skeletal Elements Represented												
Element Name	Axial MNE	Left MNE	Right MNE	Indet. MNE	Element Name	Left MNE	Right MNE	Indet. MNE	Element Name	Left MNE	Right MNE	Indet. MNE
Skull					Teeth				capitate			
frontal	1				upper I1				hamate			
parietal			1		upper I2		1		Metacarpals			
occipital	1				upper C				Phalanges			
temporal		1	1		upper PM1				proximal			
sphenoid	1				upper PM2				middle			
zygomatic			1		upper M1				distal			
maxilla					upper M2				Lower Limb			
palatine					upper M3				os coxae			
nasal					lower I1				femur			
ethmoid					lower I2				tibia			
lacrimial					lower C				fibula			
vomer					lower PM1				patella			
mandible					lower PM2				Ankle			
hyoid					lower M1				talus			
Vertebrae					lower M2				calcaneus			
cervical					lower M3				navicular			
c1					Upper Limb				medial cun.			
c2					clavicle				interm. cun.			
c3-7					scapula				lat.cuneiform			
thoracic					humerus				cuboid			
t1-t12					radius				Metatarsals			
lumbar					ulna				Phalanges			
l1-5					Wrist				proximal			
sacral					scaphoid				middle			
s1					lunate				distal			
s2-5					triquetrum							
coccyx					pisiform							
Sternum					trapezium							
Ribs					trapezoid							

Figure 3.109. Skeletal Summary 138C

RECOVERY 139C

Mortuary Attributes

Burial Orientation

The burial was oriented with the head to the southwest and the feet to the northeast.

Coffin Shape and Size

The remnants of the coffin and/or distinct outline of differently colored soil indicated that the coffin was hexagonal in shape. The length was indeterminate and the maximum width was 16 inches (40.64 cm).

Hardware

Three whole swing bail handles and fourteen fragments of swing bail handles in a different style were recovered. Four thumbscrews in two different styles, two escutcheons and two stamped tin coffin stud fragments were recovered. Five non-diagnostic nail fragments were discarded.

Cultural Attributes

Clothing

Seven Chinese-style ball buttons and one ferrous, four-hole button were recovered. Two of the Chinese-style buttons were found between the right clavicle and the cranium, two were found beside the right humerus and one was found at the west edge of the coffin. The ferrous button was also found at the west edge of the coffin.

Other Personal Artifacts

One Chinese-style, non-ferrous hair pin was recovered from the area directly above the cranium.

Other Inclusions or Offerings

A shell fragment, possibly a button, was recovered.

Summary and Estimated Date of Burial

This burial has been determined to be Chinese based on the Chinese-style buttons and the hair pin. The Chinese and western-style buttons suggest that the individual was buried in a combination of traditional and non-traditional attire.

Swing bail handles were used between the 1850s and the 1910s, while the interment dates of the cemetery were between 1879 and 1922. The estimated date of burial is between 1879 and 1920.

Osteological Attributes

Inventory and Preservation

This individual is represented by a partial cranium, dentition and a few post-cranial bones (Figure 3.110). The post-cranial skeleton is composed of the left and right os coxae, femora, tibiae, humeri, radii and vertebrae. The bone is in poor condition and fragmented.

Age

The age of the individual was determined to be an adult based on the complete eruption of the left mandibular third molar (>21 years).

Sex

The sex of the individual was determined to be male based on morphology of the mastoid processes.

Stature

Could not be determined due to missing elements.

Ancestry

Could not be determined due to missing elements.

Skeletal Pathology

No pathological conditions were observed on the recovered remains.

Dental Pathology

Minor dental wear was observed on the anterior teeth and moderate wear was found on the molars. One carious lesion was found on the mesial interproximal surface of the right maxillary first molar.

Horizontal linear enamel hypoplastic grooves were observed 5.75 mm from the CEJ on the left mandibular canine and 5.01 mm and 4.03 mm from the CEJ on the right mandibular canine. The right mandibular second premolar was lost antemortem.

Osteological Summary for 139C

This individual is represented by cranial and post-cranial fragments and dentition. The individual was determined to be an adult male with carious lesions, hypoplasias, antemortem tooth loss and a minor to moderate dental wear pattern.

139C

Sex: Male

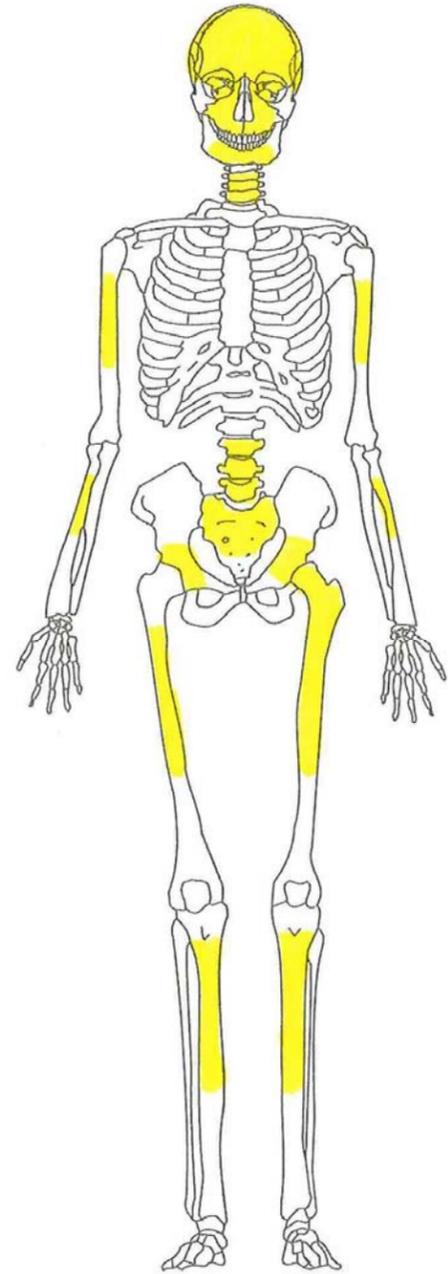
Age: Adult

Ancestry: indeterminate

Height: indeterminate

Skeletal Pathology: none observed

Dental Pathology: Antemortem Tooth Loss, Carious Lesions, Hypoplasias



139C Skeletal Elements Represented												
Element Name	Axial MNE	Left MNE	Right MNE	Indet. MNE	Element Name	Left MNE	Right MNE	Indet. MNE	Element Name	Left MNE	Right MNE	Indet. MNE
Skull					Teeth				capitate			
frontal	1				upper I1				hamate			
parietal		1	1		upper I2				Metacarpals			
occipital	1				upper C		1		Phalanges			
temporal		1	1		upper PM1		1		proximal			
sphenoid	1				upper PM2		1		middle			
zygomatic					upper M1	1	1		distal			
maxilla		1	1		upper M2	1	1		Lower Limb			
palatine					upper M3				os coxae	1	1	
nasal					lower I1				femur	1	1	
ethmoid					lower I2	1			tibia	1	1	
lacrimial					lower C	1			fibula			
vomer	1				lower PM1	1			patella			
mandible	1				lower PM2	1			Ankle			
hyoid					lower M1	1	1		talus			
Vertebrae					lower M2	1	1		calcaneus			
cervical					lower M3	1			navicular			
c1					Upper Limb				medial cun.			
c2					clavicle				interm. cun.			
c3-7	3				scapula				lat.cuneiform			
thoracic					humerus	1	1		cuboid			
t1-t12	3				radius	1	1		Metatarsals			
lumbar					ulna				Phalanges			
l1-5	3				Wrist				proximal			
sacral					scaphoid				middle			
s1	1				lunate				distal			
s2-5	2				triquetrum							
coccyx					pisiform							
Sternum					trapezium							
Ribs					trapezoid							

Figure 3.110. Skeletal Summary 139C

RECOVERY 140C

Mortuary Attributes

Burial Orientation

The burial was oriented with the head to the southwest and the feet to the northeast.

Coffin Shape and Size

The remnants of the coffin and/or distinct outline of differently colored soil indicated that the coffin was hexagonal in shape. It was 72 inches (182.88 cm) long, 19 inches (48.26 cm) at its maximum width and 13 inches (33.02 cm) at its minimum width.

Hardware

One swing bail handle, two escutcheons, one thumbscrew and three stamped tin coffin studs were recovered. Two non-diagnostic nail fragments were discarded.

Cultural Attributes

Clothing

Five Chinese-style ball buttons were found, along with one fabric-covered ferrous button with a non-ferrous rivet.

Other Personal Artifacts

No other personal artifacts were recovered.

Other Inclusions or Offerings

One mostly illegible Shield nickel was minted between 1867 and 1883. Placed directly on top of the coffin before burial were three vessels: two ferrous jars and one Chinese utility stoneware food storage jar with a Tiger glaze. The bottoms of the ferrous jars have remnants of red-painted coffin wood attached; the jars contain matrix and ash. Three small fragments of stoneware matching the jar are likely pieces from the damaged jar rim.

Summary and Estimated Date of Burial

This burial has been determined to be Chinese based on the Chinese-style buttons, red-painted coffin wood and the vessels placed on the coffin. The vessels had evidence that offerings had been burned. The Chinese-style and western-style buttons recovered suggest that the individual was buried in a combination of traditional and non-traditional attire.

Swing bail handles were used between 1850s and the 1910s, while the interment dates of the cemetery were between 1879 and 1922. The estimated date of burial is between 1879 and 1920.

Osteological Attributes

Inventory and Preservation

This individual is represented by cranial fragments, dentition, cervical vertebrae and a few lower limb fragments (Figure 3.111). The bone is in poor condition and fragmented. The teeth are in poor condition and the enamel is chipped off.

Age

The age of the individual was determined to be an adult based on the complete eruption of the right maxillary third molar (>21 years).

Sex

Could not be determined due to missing elements.

Stature

Could not be determined due to missing elements.

Ancestry

Could not be determined due to missing elements.

Skeletal Pathology

No pathological conditions were observed on the recovered remains.

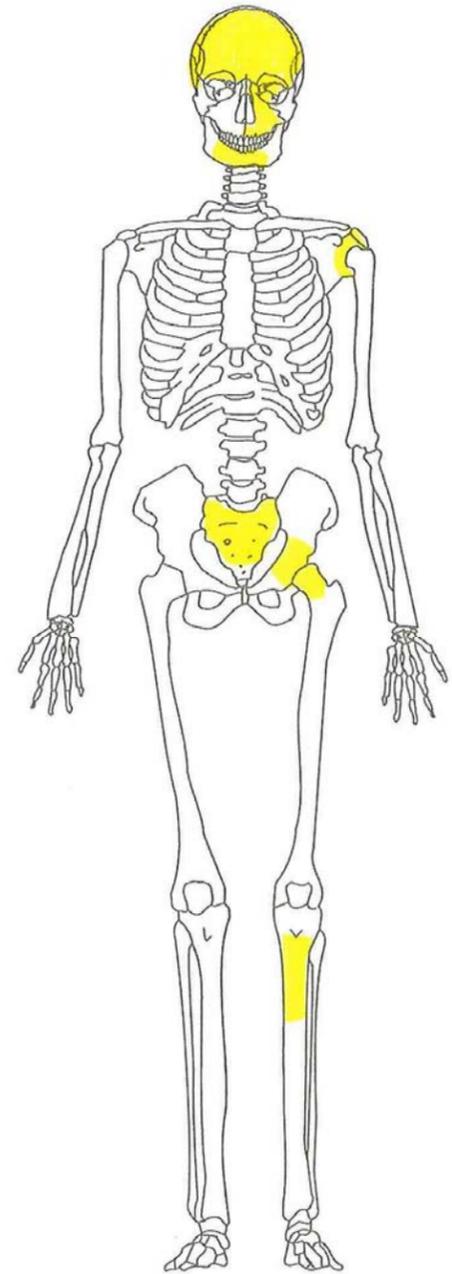
Dental Pathology

Hypoplasias were observed on most of the teeth with enamel still intact. Horizontal linear enamel hypoplastic grooves were found 3.31 mm from the CEJ on the right maxillary second incisor; 3.48mm and 4.90 mm from the CEJ on the left maxillary second incisor; 2.52 mm from the CEJ on the right maxillary canine; and 3.27 mm, 3.74 mm and 4.35 mm from the CEJ on the right mandibular canine.

Osteological Summary for 140C

This individual was represented by cranial fragments, dentition, cervical vertebrae and a few lower limb fragments and determined to be an adult with hypoplasias.

140C
 Sex: indeterminate
 Age: Adult
 Ancestry: indeterminate
 Height: indeterminate
 Skeletal Pathology: none observed
 Dental Pathology: Hypoplasias



140C Skeletal Elements Represented												
Element Name	Axial MNE	Left MNE	Right MNE	Indet. MNE	Element Name	Left MNE	Right MNE	Indet. MNE	Element Name	Left MNE	Right MNE	Indet. MNE
Skull					Teeth				capitate			
frontal	1				upper I1				hamate			
parietal		1	1		upper I2	1	1		Metacarpals			
occipital	1				upper C	1	1		Phalanges			
temporal			1		upper PM1		1		proximal			
sphenoid	1				upper PM2	1	1		middle			
zygomatic					upper M1	1	1		distal			
maxilla		1			upper M2	1	1		Lower Limb			
palatine					upper M3		1		os coxae	1		
nasal					lower I1		1		femur			1
ethmoid					lower I2				tibia			1
lacrimial					lower C	1	1		fibula			
vomer					lower PM1	1	1		patella			
mandible	1				lower PM2	1	1		Ankle			
Vertebrae					lower M1	1			talus			
cervical					lower M2	1	1		calcaneus			
c1					lower M3				navicular			
c2					Upper Limb				medial cun.			
c3-7					clavicle				interm. cun.			
thoracic					scapula	1			lat.cuneiform			
t1-t12					humerus				cuboid			
lumbar					radius				Metatarsals			
l1-5					ulna				Phalanges			
sacral					Wrist				proximal			
s1					scaphoid				middle			
s2-5	3				lunate				distal			
coccyx					triquetrum							
Sternum					pisiform							
Ribs					trapezium							
					trapezoid							

Figure 3.111. Skeletal Summary 140C

RECOVERY 141C

Mortuary Attributes

Burial Orientation

The burial was oriented with the head to the southwest and the feet to the northeast.

Coffin Shape and Size

The remnants of the coffin and/or distinct outline of differently colored soil indicated that the coffin was hexagonal in shape. The burial was heavily impacted, hindering an accurate determination of size.

Hardware

Two non-diagnostic nail fragments were discarded.

Cultural Attributes

Clothing

No clothing-related artifacts were recovered.

Other Personal Artifacts

No other personal artifacts were recovered.

Other Inclusions or Offerings

An 1876 Seated Liberty dime was recovered.

Summary and Estimated Date of Burial

No artifacts were recovered that could accurately estimate the date of burial. The date of burial is estimated to be between the interment dates of the cemetery, 1879 to 1922.

Osteological Attributes

Inventory and Preservation

This individual is represented by mostly cranial fragments and dentition. The bone and teeth are in poor condition and fragmented (Figure 3.112).

Age

The age of this individual was determined to be an adult based on the complete eruption of the left maxillary third molar (>21 years).

Sex

The sex of the individual was determined to be male based on the mental eminence of the mandible.

Stature

Could not be determined due to missing elements.

Ancestry

The ancestry of the individual was determined to be Asian based on shovel shaped incisors.

Skeletal Pathology

The individual exhibited cribra orbitalia in the form of coalesced porosity in a small area 1 cm in diameter on the left superior orbital surface indicative of a metabolic disorder.

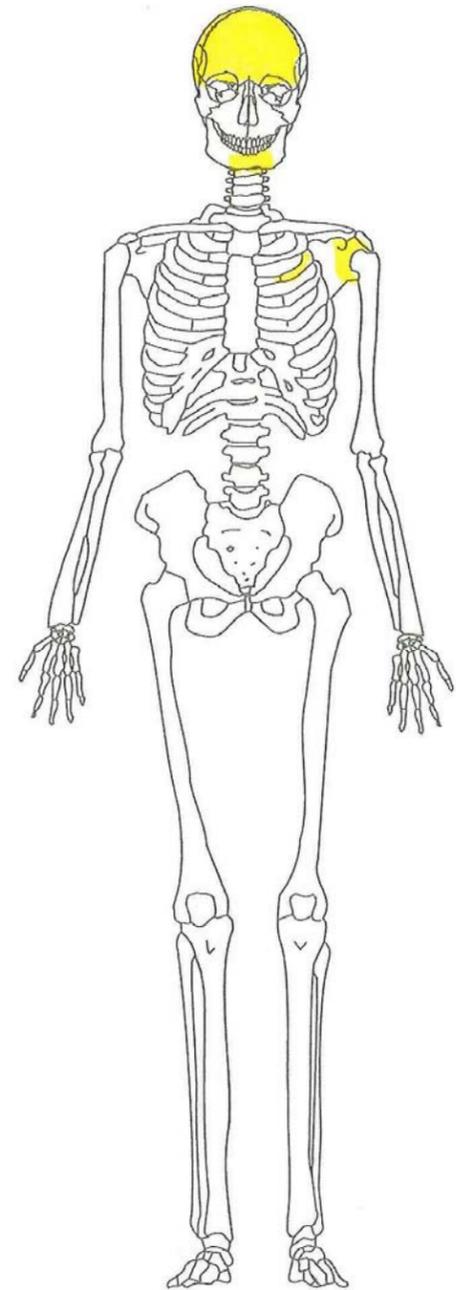
Dental Pathology

The teeth displayed minor dental wear and linear horizontal enamel hypoplastic grooves were found 2.75 mm from the CEJ on the left maxillary second molar and 4.85 mm from the CEJ on the right mandibular canine.

Osteological Summary for 141C

This individual is represented by a cranial fragments and teeth and determined to be an adult male of Asian ancestry. The individual exhibited minor dental wear, hypoplasias and cribra orbitalia.

141C
 Sex: Male
 Age: Adult
 Ancestry: Asian
 Height: indeterminate
 Skeletal Pathology: Cribra Orbitalia
 Dental Pathology: Hypoplasias



141C Skeletal Elements Represented												
Element Name	Axial MNE	Left MNE	Right MNE	Indet. MNE	Element Name	Left MNE	Right MNE	Indet. MNE	Element Name	Left MNE	Right MNE	Indet. MNE
Skull					Teeth				capitate			
frontal	1				upper I1				hamate			
parietal			1		upper I2	1			Metacarpals			
occipital	1				upper C				Phalanges			
temporal			1		upper PM1				proximal			
sphenoid					upper PM2	1			middle			
zygomatic					upper M1	1			distal			
maxilla					upper M2	1			Lower Limb			
palatine					upper M3	1			os coxae			
nasal					lower I1		1		femur			
ethmoid					lower I2		1		tibia			
lacrimial					lower C		1		fibula			
vomer					lower PM1				patella			
mandible	1				lower PM2				Ankle			
hyoid					lower M1				talus			
Vertebrae					lower M2				calcaneus			
cervical					lower M3				navicular			
c1					Upper Limb				medial cun.			
c2					clavicle				interm. cun.			
c3-7					scapula	1			lat.cuneiform			
thoracic					humerus				cuboid			
t1-t12					radius				Metatarsals			
lumbar					ulna				Phalanges			
l1-5					Wrist				proximal			
sacral					scaphoid				middle			
s1					lunate				distal			
s2-5					triquetrum							
coccyx					pisiform							
Sternum					trapezium							
Ribs			1		trapezoid							

Figure 3.112. Skeletal Summary 141C

RECOVERY 142C

Mortuary Attributes

Burial Orientation

The burial was oriented southwest-northeast.

Coffin Shape and Size

The burial was heavily impacted, hindering an accurate determination of shape and size.

Hardware

One small-scale swing bail handle, two thumbscrews, one escutcheon, one decorative lug and two lotus blossom ornaments were recovered.

Cultural Attributes

Clothing

No clothing-related artifacts were recovered.

Other Personal Artifacts

No other personal artifacts were recovered.

Other Inclusions or Offerings

A clear glass, circular opium lamp oil reservoir cover was recovered.

Summary and Estimated Date of Burial

This burial has been determined to be Chinese based on the decorative lug and lotus ornaments, unique to Chinese coffins, and the opium lamp part.

Swing bail handles were used between the 1850s and the 1910s, while the interment dates of the cemetery were between 1879 and 1922. The estimated date of burial is between 1879 and 1920.

Osteological Attributes

No bone was observed or recovered.

RECOVERY 143C

Mortuary Attributes

Burial Orientation

The burial was oriented with the head to the southwest and the feet to the northeast.

Coffin Shape and Size

The remnants of the coffin and/or distinct outline of differently colored soil indicated that the coffin was hexagonal in shape. Size was indeterminate.

Hardware

Two non-diagnostic nail fragments were discarded.

Cultural Attributes

Clothing

No clothing-related artifacts were recovered.

Other Personal Artifacts

No other personal artifacts were recovered.

Other Inclusions or Offerings

No other inclusions or offerings were recovered.

Summary and Estimated Date of Burial

No artifacts were recovered that could accurately estimate the date of burial. The date of burial is estimated to be between the interment dates of the cemetery, 1879 to 1922.

Osteological Attributes

No bone was observed or recovered.

RECOVERY 144C

Mortuary Attributes

Burial Orientation

The burial was oriented with the head to the southwest and the feet to the northeast.

Coffin Shape and Size

The remnants of the coffin and/or distinct outline of differently colored soil indicated that the coffin was hexagonal in shape. It was 42 inches (106.68 cm) long, 10 inches (25.4 cm) at its maximum width and 9 inches (22.86 cm) at its minimum width.

Hardware

One swing bail handle was recovered.

Cultural Attributes

Clothing

No clothing-related artifacts were recovered.

Other Personal Artifacts

No other personal artifacts were recovered.

Other Inclusions or Offerings

No other inclusions or offerings were recovered.

Summary and Estimated Date of Burial

The dimensions of the coffin suggest this was a juvenile burial. Swing bail handles were used between the 1850s and the 1910s, while the interment dates of the cemetery were between 1879 and 1922. The estimated date of burial is between 1879 and 1920.

Osteological Attributes

No bone was observed or recovered.

RECOVERY 145C

Mortuary Attributes

Burial Orientation

The burial was oriented with the head to the southwest and the feet to the northeast.

Coffin Shape and Size

The remnants of the coffin and/or distinct outline of differently colored soil indicated that the coffin was hexagonal in shape. Size was indeterminate. Three fragments of badly decomposed coffin wood with remnants of red paint were found embedded in the matrix.

Hardware

One swing bail handle and three short bar handles were recovered. One decorative lug with braided string was recovered.

Cultural Attributes

Clothing

No clothing-related artifacts were recovered.

Other Personal Artifacts

No other personal artifacts were recovered.

Other Inclusions or Offerings

Six fragments of one medium olive-green wine bottle produced in a three-piece dip mold with a tooled, packer-style finish was found. A clear glass, octagonal opium lamp oil reservoir cover was recovered as well as four unidentified, ferrous, amorphous fragments.

Summary and Estimated Date of Burial

This burial has been determined to be Chinese based on the red-painted wood, the decorative lug (style to which lotus blossom ornaments are attached) and the opium lamp part recovered.

Three-piece dip molds were used between the 1880s and 1910, while the interment dates of the cemetery were between 1879 and 1922. The estimated date of burial is between 1879 and 1910.

Osteological Attributes

No bone was observed or recovered.

RECOVERY 146C

Mortuary Attributes

Burial Orientation

The burial was oriented with the head to the southwest and the feet to the southwest.

Coffin Shape and Size

The remnants of the coffin and/or distinct outline of differently colored soil indicated that the coffin was hexagonal in shape. It was 54 inches (137.16 cm) long, 19 inches (48.26 cm) at its maximum width and 12 inches (30.48 cm) at its minimum width.

Hardware

Three stamped tin coffin studs were recovered.

Cultural Attributes

Clothing

Four ceramic, four-hole, dish-style buttons and two ferrous, four-hole buttons were recovered. Two Chinese-style ball buttons were also recovered.

Other Personal Artifacts

No other personal artifacts were recovered.

Other Inclusions or Offerings

Two metal discs attached with a screw were recovered.

Summary and Estimated Date of Burial

This burial has been determined to be Chinese based on the Chinese-style buttons recovered.

Prosser process buttons were manufactured between 1849 and 1910, while the interment dates of the cemetery were between 1879 and 1922. The date of burial is estimated to between 1879 and 1910.

Osteological Attributes

Inventory and Preservation

This individual is represented by a mandible, dentition, humerus and lower limb bones including the os coxae, femora and a tibia (Figure 3.113). The bone and teeth are in poor condition and fragmented.

Age

The age of the individual was determined to be an adult based on the fusion of the proximal epiphysis of the left tibia (>22 years).

Sex

Could not be determined due to missing elements.

Stature

Could not be determined due to missing elements.

Ancestry

Could not be determined due to missing elements.

Skeletal Pathology

No pathological conditions were observed on the recovered remains.

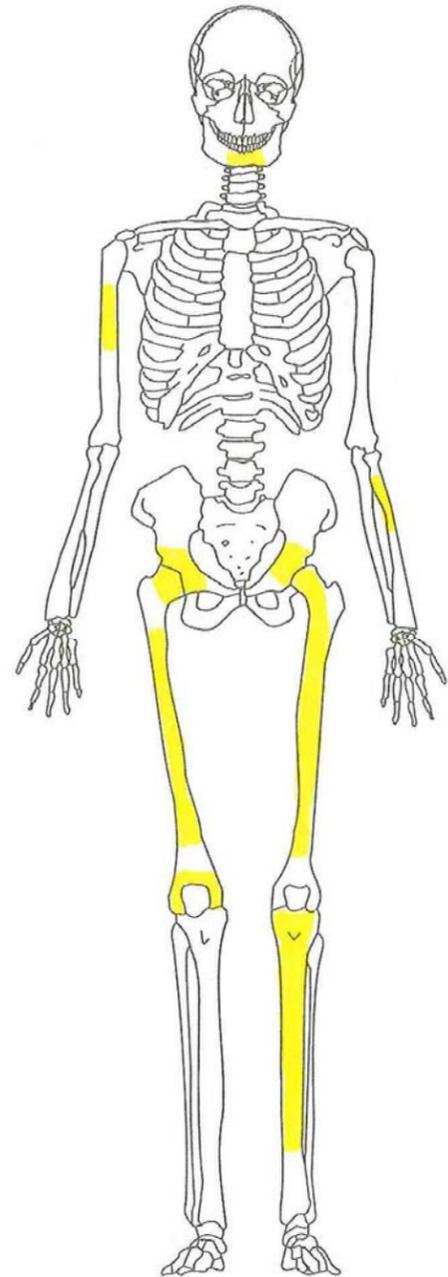
Dental Pathology

No pathological conditions were observed on the recovered remains.

Osteological Summary for 146C

This individual was represented by a mandible and lower limbs and determined to be an adult.

146C
 Sex: indeterminate
 Age: Adult
 Ancestry: indeterminate
 Height: indeterminate
 Skeletal Pathology: none observed
 Dental Pathology: indeterminate



146C Skeletal Elements Represented												
Element	Axial	Left	Right	Indet.	Element	Left	Right	Indet.	Element	Left	Right	Indet.
Name	MNE	MNE	MNE	MNE	Name	MNE	MNE	MNE	Name	MNE	MNE	MNE
Skull					Teeth				capitate			
frontal					upper I1				hamate			
parietal					upper I2				Metacarpals			
occipital					upper C				Phalanges			
temporal					upper PM1				proximal			
sphenoid					upper PM2				middle			
zygomatic					upper M1				distal			
maxilla					upper M2				Lower Limb			
palatine					upper M3				os coxae	1	1	
nasal					lower I1	1			femur	1	1	
ethmoid					lower I2	1			tibia	1		
lacrimial					lower C	1	1		fibula			
vomer					lower PM1	1	1		patella			
mandible	1				lower PM2	1			Ankle			
hyoid					lower M1	1	1		talus			
Vertebrae					lower M2				calcaneus			
cervical					lower M3				navicular			
c1					Upper Limb				medial cun.			
c2					clavicle				interm. cun.			
c3-7					scapula				lat.cuneiform			
thoracic					humerus		1		cuboid			
t1-t12					radius	1			Metatarsals			
lumbar					ulna				Phalanges			
l1-5					Wrist				proximal			
sacral					scaphoid				middle			
s1					lunate				distal			
s2-5					triquetrum							
coccyx					pisiform							
Sternum					trapezium							
Ribs					trapezoid							

Figure 3.113. Skeletal Summary 146C

RECOVERY 147C

Mortuary Attributes

Burial Orientation

The burial was oriented with the head to the southwest and the feet to the northeast.

Coffin Shape and Size

The remnants of the coffin and/or distinct outline of differently colored soil indicated that the coffin was hexagonal in shape. It was 53 inches (134.62) long, 13 inches (33.02 cm) at its maximum width and 9 inches (22.86 cm) at its minimum width.

Hardware

Two fragments of a light aqua plate glass coffin viewing window were recovered. One non-diagnostic nail fragment was discarded.

Cultural Attributes

Clothing

No clothing-related artifacts were recovered.

Other Personal Artifacts

No other personal artifacts were recovered.

Other Inclusions or Offerings

Six fragments of a stoneware rice bowl with the Bamboo pattern were recovered.

Summary and Estimated Date of Burial

This burial has been determined to be Chinese based on the Chinese ceramics recovered.

Coffin viewing windows were generally used from the 1860s to the 1910s, while the interment dates of the cemetery were between 1879 and 1922. The estimated date of burial is between 1879 and 1920.

Osteological Attributes

No bone was observed or recovered.

RECOVERY 148C

Mortuary Attributes

Burial Orientation

The burial was oriented with the head to the southwest and the feet to the northeast.

Coffin Shape and Size

The remnants of the coffin and/or distinct outline of differently colored soil indicated that the coffin was hexagonal in shape. It was 58 inches (147.32 cm) long, 21 inches (53.34 cm) at its maximum width and 13 inches (33.02 cm) at its minimum width.

Hardware

One non-diagnostic nail fragment was discarded.

Cultural Attributes

Clothing

No clothing-related artifacts were recovered.

Other Personal Artifacts

No other personal artifacts were recovered.

Other Inclusions or Offerings

Fragments of a Chinese stoneware shouldered utility storage jar were recovered.

Summary and Estimated Date of Burial

This burial has been determined to be Chinese based on the stoneware jar recovered.

No artifacts were recovered that could accurately estimate the date of burial. The date of burial is estimated to be between the interment dates of the cemetery, 1879 to 1922.

Osteological Attributes

No bone was observed or recovered.

RECOVERY 149C

Mortuary Attributes

Burial Orientation

The burial was oriented with the head to the southwest and the feet to the northeast.

Coffin Shape and Size

The remnants of the coffin and/or distinct outline of differently colored soil indicated that the coffin was hexagonal in shape. It was 65 inches (165.1 cm) long, 18 inches (45.72 cm) at its maximum width and 12 inches (30.48 cm) at its minimum width.

Hardware

One swing bail handle, one stamped tin coffin stud and three thumbscrews and escutcheons were recovered.

Cultural Attributes

Clothing

154 buttons were recovered from this burial consisting of 117 ceramic, four-hole, dish-style buttons, four ferrous, four-hole buttons, two of which were still stitched onto a brown, woven cotton fabric fragment, nineteen ferrous, fabric-covered buttons with non-ferrous rivets and fourteen Chinese-style ball buttons. In addition, one leather hat and multiple fragments of brown, woven cotton fabric were recovered.

Other Personal Artifacts

One opium pipe stem connector wrapped in leather, fragments of a rose-brown earthenware opium pipe bowl, one vulcanized rubber pipe stem with remnants of a burl wood bowl attached, one lunate end of a wood Chinese comb and one ferrous and bone pocket knife were recovered. Also recovered was a photograph between two glass sheets of a young Chinese couple in traditional attire.

Other Inclusions or Offerings

Fifty-one fragments of glass were recovered from this burial consisting of four clear glass bottle fragments with unidentified contents or manufacture, four olive-green glass wine or champagne bottle fragments produced on a turn mold, eight fragments of one clear glass bottle with unidentified contents and manufacture, twelve olive-green glass bottle fragments with unidentified contents and manufacture, fourteen white milkglass fragments of a decorative jar and nine gaming pieces: one green, one purple and seven white.

Ceramic artifacts consisted of one whole, porcelain, celadon wine bowl with the Chinese character for 10 on the base, five fragments of two stoneware rice bowls with the Bamboo pattern and six fragments of one small, stoneware rice bowl with the Four Seasons pattern and a base mark possibly representing the Ching Dynasty. One non-diagnostic fragment of a Euro-American porcelain dish was discarded.

Six fragments of one ferrous teapot and four fragments of one ferrous cooking pot were recovered. One cotter pin, a swing bail handle (not for mortuary use), a bracket and a ferrous metal loop, all with unidentified use, were recovered. One 1884 Seated Liberty dime was recovered. Artifacts that could not be identified consisted of one flat disc with a screw and fabric attached to one side, a ferrous, folded strap, a ferrous hardware object and eight flat, ferrous fragments. Multiple fragments of the flat, ferrous fragments were discarded.

Summary and Estimated Date of Burial

This recovery had the highest density of burial goods of all the recoveries. This burial has been determined to be Chinese based on the Chinese-style buttons, opium paraphernalia, Chinese comb, gaming pieces, photograph and Chinese ceramics recovered. The fragments of flat, ferrous metal are possibly the remains of a metal coffin cover used to seal out air, seal in communicable disease or protect against spirits of the dead. The multiple buttons recovered suggest that the individual may have been a tailor, while the combination of Chinese and western-style buttons suggest that the individual was buried in a combination of traditional and non-traditional attire.

The individual had to have been interred after the mint date of the dime, 1884, while Prosser process buttons were manufactured between 1849 and 1910. The estimated date of burial is between 1884 and 1910.

Osteological Attributes

Inventory and Preservation

This individual is represented by a partial skull, dentition and upper and lower limb bones (Figure 3.114). The skull consists of fragmented cranial and facial bone, along with the mandible. The bone is in fair condition, but friable.

Age

The age of the individual was determined to be an adult based on the complete eruption of the right mandibular third molar (>21 years).

Sex

The sex of the individual was determined to be female based on the left mastoid process.

Stature

Could not be determined due to missing elements.

Ancestry

Could not be determined due to missing elements.

Skeletal Pathology

No pathological conditions were observed on the recovered remains.

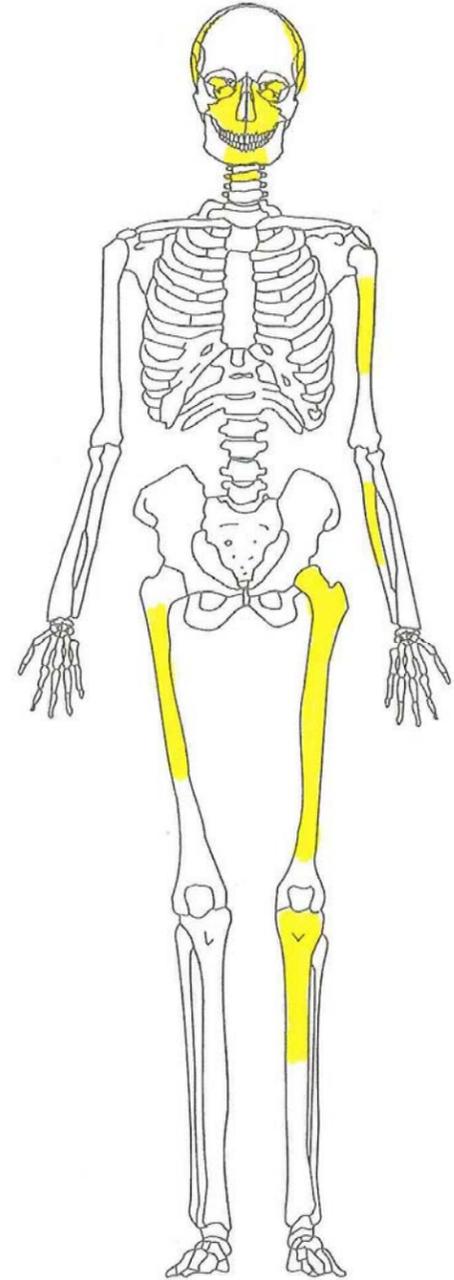
Dental Pathology

Moderate dental wear was observed on the teeth recovered. No pathological conditions were observed on the recovered remains.

Osteological Summary for 149C

This individual was represented by a partial skull, dentition and a few limb bones and determined to be an adult female with moderated dental wear.

149C
 Sex: Female
 Age: Adult
 Ancestry: indeterminate
 Height: indeterminate
 Skeletal Pathology: none observed
 Dental Pathology: none observed



149C Skeletal Elements Represented												
Element Name	Axial MNE	Left MNE	Right MNE	Indet. MNE	Element Name	Left MNE	Right MNE	Indet. MNE	Element Name	Left MNE	Right MNE	Indet. MNE
Skull					Teeth				capitate			
frontal					upper I1				hamate			
parietal		1	1		upper I2				Metacarpals			
occipital	1				upper C				Phalanges			
temporal		1	1		upper PM1				proximal			
sphenoid	1				upper PM2				middle			
zygomatic					upper M1	1	1		distal			
maxilla		1	1		upper M2	1	1		Lower Limb			
palatine					upper M3				os coxae			
nasal					lower I1				femur	1	1	
ethmoid					lower I2				tibia	1		
lacrimial					lower C				fibula			
vomer					lower PM1				patella			
mandible	1				lower PM2				Ankle			
hyoid					lower M1	1	1		talus			
Vertebrae					lower M2		1		calcaneus			
cervical					lower M3		1		navicular			
c1					Upper Limb				medial cun.			
c2	1				clavicle				interm. cun.			
c3-7					scapula				lat.cuneiform			
thoracic					humerus			1	cuboid			
t1-t12					radius				Metatarsals			
lumbar					ulna			1	Phalanges			
l1-5					Wrist				proximal			
sacral					scaphoid				middle			
s1					lunate				distal			
s2-5					triquetrum							
coccyx					pisiform							
Sternum					trapezium							
Ribs					trapezoid							

Figure 3.114. Skeletal Summary 149C

RECOVERY 150C

Mortuary Attributes

Burial Orientation

The burial was oriented with the head to the southwest and the feet to the northeast.

Coffin Shape and Size

The remnants of the coffin and/or distinct outline of differently colored soil indicated that the coffin was hexagonal in shape. It was 71 inches (180.34 cm) long and 19 inches (48.26 cm) at its maximum width. Minimum width was indeterminate.

Hardware

Three swing bail handles were recovered. Four non-diagnostic nail fragments were discarded.

Cultural Attributes

Clothing

Two ceramic, four-hole, dish-style buttons were recovered. Three Chinese-style ball button fragments were discarded.

Other Personal Artifacts

One grey-green opium pipe bowl was recovered.

Other Inclusions or Offerings

Four fragments of two earthenware rice bowls with the Bamboo pattern were recovered.

Summary and Estimated Date of Burial

This burial has been determined to be Chinese based on the Chinese-style buttons, Chinese ceramics and the opium pipe bowl recovered. The Chinese and western-style suggest that the individual was buried in a combination of traditional and non-traditional attire.

Swing bail coffin handles were used between the 1850s and the 1910s while the interment dates of the cemetery were between 1879 and 1922. The estimated date of burial is between 1879 and 1920.

Osteological Attributes

No bone was observed or recovered.

RECOVERY 151C

Mortuary Attributes

Burial Orientation

The burial was oriented with the head to the southwest and the feet to the northeast.

Coffin Shape and Size

The remnants of the coffin and/or distinct outline of differently colored soil indicated that the coffin was hexagonal in shape. It was 72 inches (182.88 cm) long, 16 inches (40.64 cm) at its maximum width and 8 inches (20.32 cm) at its minimum width.

Hardware

One decorative coffin lug with braided string attached, four thumbscrews and four escutcheons were recovered. One thumbscrew and escutcheon were attached to a fragment of wood with remnants of red paint. Two non-diagnostic nail fragments were discarded.

Cultural Attributes

Clothing

Brown, woven cotton fabric garment fragments were recovered.

Other Personal Artifacts

No other personal artifacts were recovered.

Other Inclusions or Offerings

One porcelain handle lug from a Chinese teapot, four small porcelain dish fragments and one olive-green glass bottle fragment with unidentified contents and manufacture were recovered. One ferrous handle of unidentified use was recovered. Two unidentified flat, ferrous fragments were discarded.

Summary and Estimated Date of Burial

This burial has been determined to be Chinese based on the decorative lug unique to Chinese coffins, red-painted coffin wood and Chinese-style teapot lug recovered.

No artifacts were recovered that could accurately estimate the date of burial. The date of burial is estimated to be between the interment dates of the cemetery, 1879 and 1922.

Osteological Attributes

No bone was observed or recovered.

RECOVERY 152C

Mortuary Attributes

Burial Orientation

The burial was oriented with the head to the southwest and the feet to the northeast.

Coffin Shape and Size

The remnants of the coffin and/or distinct outline of differently colored soil indicated that the coffin was hexagonal in shape. The coffin length was 72 inches (182.88 cm), was 18 inches (45.72 cm) at its maximum width and was 8 inches (20.32 cm) at its minimum width.

Hardware

Three thumbscrews, three escutcheons, one decorative coffin lug with braided string attached and two stamped tin coffin studs were recovered.

Cultural Attributes

Clothing

Two fragments of one non-ferrous, four-hole button, one ferrous and non-ferrous, four-hole button and one ferrous, four-hole button were recovered.

Other Personal Artifacts

One opium pipe stem connector was recovered.

Other Inclusions or Offerings

One olive-green glass wine or champagne bottle fragment with unidentified manufacture, one small clear glass bottle fragment with unidentified contents and manufacture, two fragments of a Euro-American porcelain dish and one Chinese Wen were recovered.

Summary and Estimated Date of Burial

This burial has been determined to be Chinese based on the decorative lug, unique to Chinese coffins, opium pipe stem connector and the Chinese coin recovered. The western-style buttons suggest that the individual was buried in non-traditional attire.

No artifacts were recovered that could accurately estimated the date of burial. The date of burial is estimated to be between the interment dates of the cemetery, 1879 and 1922.

Osteological Attributes

Inventory and Preservation

This individual is represented by a fragmented skull, dentition and 55% of the post-cranial skeleton (Figure 3.115). The teeth are poorly preserved and very friable. The post-cranial skeleton consisted mostly of the lower limbs. The conditions of the bone were fair, but fragmented.

Age

The individual was determined to be an adult based on the complete eruption of the maxillary third molars (>21 years).

Sex

The sex of the individual was determined to be female based on the mastoid process and the vertical diameter of the left femoral head (43.93 mm).

Stature

Could not be determined due to missing elements.

Ancestry

Could not be determined due to missing elements.

Skeletal Pathology

No pathological conditions were observed on the recovered remains.

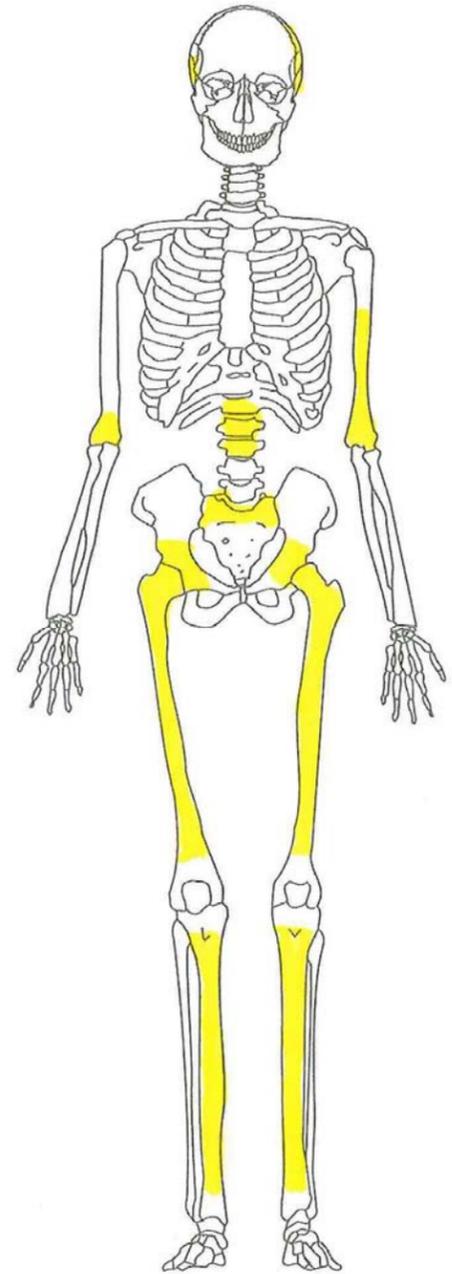
Dental Pathology

No dental pathological conditions were observed on the recovered remains.

Osteological Summary for 152C

This individual is represented by cranial fragments, dentition and lower limb bones. The individual was determined to be an adult female.

152C
 Sex: Female
 Age: Adult
 Ancestry: indeterminate
 Height: indeterminate
 Skeletal Pathology: none observed
 Dental Pathology: none observed



152C Skeletal Elements Represented												
Element Name	Axial MNE	Left MNE	Right MNE	Indet. MNE	Element Name	Left MNE	Right MNE	Indet. MNE	Element Name	Left MNE	Right MNE	Indet. MNE
Skull					Teeth				capitate			
frontal					upper I1	1	1		hamate			
parietal				1	upper I2		1		Metacarpals			
occipital	1				upper C	1	1		Phalanges			
temporal		1	1		upper PM1	1	1		proximal			
sphenoid					upper PM2	1			middle			
zygomatic					upper M1	1	1		distal			
maxilla					upper M2	1	1		Lower Limb			
palatine					upper M3	1	1		os coxae	1	1	
nasal					lower I1				femur	1	1	
ethmoid					lower I2		1		tibia	1	1	
lacrimial					lower C				fibula			
vomer					lower PM1	1	1		patella			
mandible					lower PM2		1		Ankle			
hyoid					lower M1				talus			
Vertebrae	3				lower M2				calcaneus			
cervical					lower M3				navicular			
c1					Upper Limb				medial cun.			
c2					clavicle				interm. cun.			
c3-7					scapula				lat.cuneiform			
thoracic					humerus	1	1		cuboid			
t1-t12					radius				Metatarsals			
lumbar					ulna				Phalanges			
l1-5					Wrist				proximal			
sacral					scaphoid				middle			
s1					lunate				distal			
s2-5	1				triquetrum							
coccyx					pisiform							
Sternum					trapezium							
Ribs					trapezoid							

Figure 3.115. Skeletal Summary 152C

RECOVERY 153C

Mortuary Attributes

Burial Orientation

The burial was oriented with the head to the southwest and the feet to the northeast.

Coffin Shape and Size

The remnants of the coffin and/or distinct outline of differently colored soil indicated that the coffin was hexagonal in shape. It was 70 inches (177.8 cm) long, 23 inches (58.42 cm) at its maximum width and 16 inches (40.64 cm) at its minimum width.

Hardware

Fourteen fragments of six short bar coffin handles, one escutcheon, two thumbscrews, one stamped tin coffin stud and sixty-five light aqua plate glass coffin viewing window fragments were recovered.

Cultural Attributes

Clothing

One ceramic, four-hole, dish-style button and three fabric-covered, ferrous buttons with non-ferrous rivets were recovered.

Other Personal Artifacts

No other personal artifacts were recovered.

Other Inclusions or Offerings

Four olive-green wine or champagne bottle fragments produced on a turn mold with an applied champagne-style finish were recovered, as was one Chinese stoneware rice bowl with the Bamboo pattern and two fragments of one Euro-American vitreous earthenware dish. Multiple unidentified, flat, ferrous fragments were discarded.

Summary and Estimated Date of Burial

This burial has been determined to be Chinese based on the rice bowl recovered. The western-style buttons recovered suggest that the individual was buried in non-traditional attire. The fragments of flat, ferrous metal are possibly the remains of a metal coffin cover used to seal out air, seal in communicable disease or protect against spirits of the dead.

Bottles were produced on turn molds between 1890 and 1915, while Prosser process buttons were manufactured between 1849 and 1910. The estimated date of burial is between 1890 and 1910.

Osteological Attributes

Inventory and Preservation

This individual is represented by a few fragments from a fibula shaft (Figure). The bone is in poor condition and friable.

Age

Could not be determined due to missing elements.

Sex

Could not be determined due to missing elements.

Stature

Could not be determined due to missing elements.

Ancestry

Could not be determined due to missing elements.

Skeletal Pathology

No pathological conditions were observed on the recovered remains.

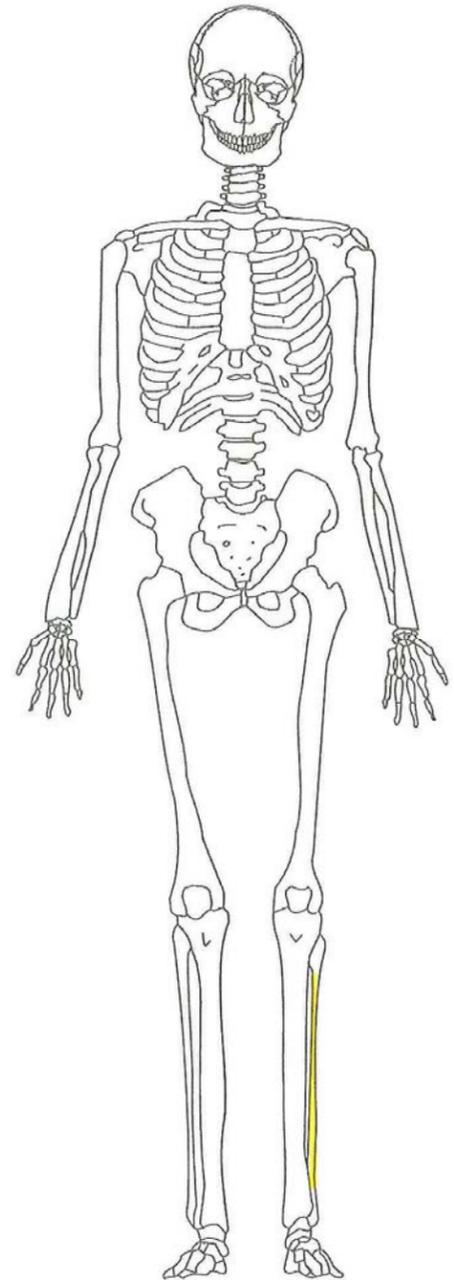
Dental Pathology

Could not be determined due to missing elements.

Osteological Summary for 153C

This individual was represented by fibula fragments and the biological profile could not be determined due to the missing elements.

153C
 Sex: indeterminate
 Age: indeterminate
 Ancestry: indeterminate
 Height: indeterminate
 Skeletal Pathology: none observed
 Dental Pathology: indeterminate



153C Skeletal Elements Represented												
Element	Axial	Left	Right	Indet.	Element	Left	Right	Indet.	Element	Left	Right	Indet.
Name	MNE	MNE	MNE	MNE	Name	MNE	MNE	MNE	Name	MNE	MNE	MNE
Skull					Teeth				capitate			
frontal					upper I1				hamate			
parietal					upper I2				Metacarpals			
occipital					upper C				Phalanges			
temporal					upper PM1				proximal			
sphenoid					upper PM2				middle			
zygomatic					upper M1				distal			
maxilla					upper M2				Lower Limb			
palatine					upper M3				os coxae			
nasal					lower I1				femur			
ethmoid					lower I2				tibia			
lacrima					lower C				fibula			1
vomer					lower PM1				patella			
mandible					lower PM2				Ankle			
hyoid					lower M1				talus			
Vertebrae					lower M2				calcaneus			
cervical					lower M3				navicular			
c1					Upper Limb				medial cun.			
c2					clavicle				interm. cun.			
c3-7					scapula				lat.cuneiform			
thoracic					humerus				cuboid			
t1-t12					radius				Metatarsals			
lumbar					ulna				Phalanges			
l1-5					Wrist				proximal			
sacral					scaphoid				middle			
s1					lunate				distal			
s2-5					triquetrum							
coccyx					pisiform							
Sternum					trapezium							
Ribs					trapezoid							

Figure 3.116. Skeletal Summary 153C

RECOVERY 154C

Mortuary Attributes

Burial Orientation

The burial was oriented with the head to the southwest and the feet to the northeast.

Coffin Shape and Size

The remnants of the coffin and/or distinct outline of differently colored soil indicated that the coffin was hexagonal in shape. Size was indeterminate.

Hardware

No hardware was recovered.

Cultural Attributes

Clothing

No clothing-related artifacts were recovered.

Other Personal Artifacts

No other personal artifacts were recovered.

Other Inclusions or Offerings

One non-ferrous, silver-plated spoon was recovered.

Summary and Estimated Date of Burial

No artifacts were recovered that could accurately estimate the date of burial. The date of burial is estimated to be between the interment dates of the cemetery, 1879 to 1922.

Osteological Attributes

Inventory and Preservation

This individual is represented by decomposed bone in several small blocks of matrix. The bone is too decomposed for identification or analysis.

Age

Could not be determined due to missing elements.

Sex

Could not be determined due to missing elements.

Stature

Could not be determined due to missing elements.

Ancestry

Could not be determined due to missing elements.

Skeletal Pathology

Could not be determined due to missing elements.

Dental Pathology

Could not be determined due to missing elements.

Osteological Summary for 154C

This individual is represented by decomposed bone in matrix, which could not be identified and the biological profile could not be determined.

RECOVERY 155C

Mortuary Attributes

Burial Orientation

The burial was oriented southwest- northeast.

Coffin Shape and Size

The burial was heavily impacted, hindering an accurate determination of shape and size.

Hardware

Two pieces of one lotus blossom ornament were recovered, along with a fragment of the braided string used to attach the ornament to a decorative coffin lug. Two non-diagnostic nail fragments were discarded.

Cultural Attributes

Clothing

One ceramic, four-hole, dish-style button was recovered.

Other Personal Artifacts

No other personal artifacts were recovered.

Other Inclusions or Offerings

No other inclusions or offerings were recovered.

Summary and Estimated Date of Burial

This burial has been determined to be Chinese based on the lotus coffin ornament recovered, which is unique to Chinese coffins. The western-style button suggests that the individual was buried in non-traditional attire.

Prosser process buttons were manufactured between 1849 and 1910, while the interment dates of the cemetery were between 1879 and 1922. The estimated date of burial is between 1879 and 1910.

Osteological Attributes

No bone was observed or recovered.

RECOVERY 156C

Mortuary Attributes

Burial Orientation

The burial was oriented with the head to the southwest and the feet to the northeast.

Coffin Shape and Size

The remnants of the coffin and/or distinct outline of differently colored soil indicated that the coffin was hexagonal in shape. The coffin length was 71 inches (180.34 cm); widths were indeterminate.

Hardware

Two decorative coffin lugs were recovered. The braided string attached to one of the lugs held a lotus blossom ornament, also recovered, upside down. Seven non-diagnostic nail fragments were discarded.

Cultural Attributes

Clothing

No clothing-related artifacts were recovered.

Other Personal Artifacts

No other personal artifacts were recovered.

Other Inclusions or Offerings

One fragment of Chinese porcelain with the Simple Flower and Vine pattern was recovered.

Summary and Estimated Date of Burial

This burial has been determined to be Chinese based on the decorative lugs and lotus blossom ornament recovered, which are unique to Chinese coffins, and the fragment of Chinese porcelain.

No artifacts were recovered that could accurately estimate the date of burial. The date of burial is estimated to be between the interment dates of the cemetery, 1879 to 1922.

Osteological Attributes

Inventory and Preservation

This individual is represented by cranial fragments and dentition. The cranial vault was recovered and is in fair, but fragmented condition. The teeth recovered are in poor condition and their enamel has chipped off.

Age

The age of the individual was determined to be subadult or older based on evidence of dental eruption. Wear facets were observed on the distal interproximal surface of the left mandibular first molar indicating the second molar had erupted (>15 years).

Sex

Could not be determined due to missing elements.

Stature

Could not be determined due to missing elements.

Ancestry

The ancestry of the individual was determined to be Asian based on a shovel shaped incisor.

Skeletal Pathology

No pathological conditions were observed on the recovered remains.

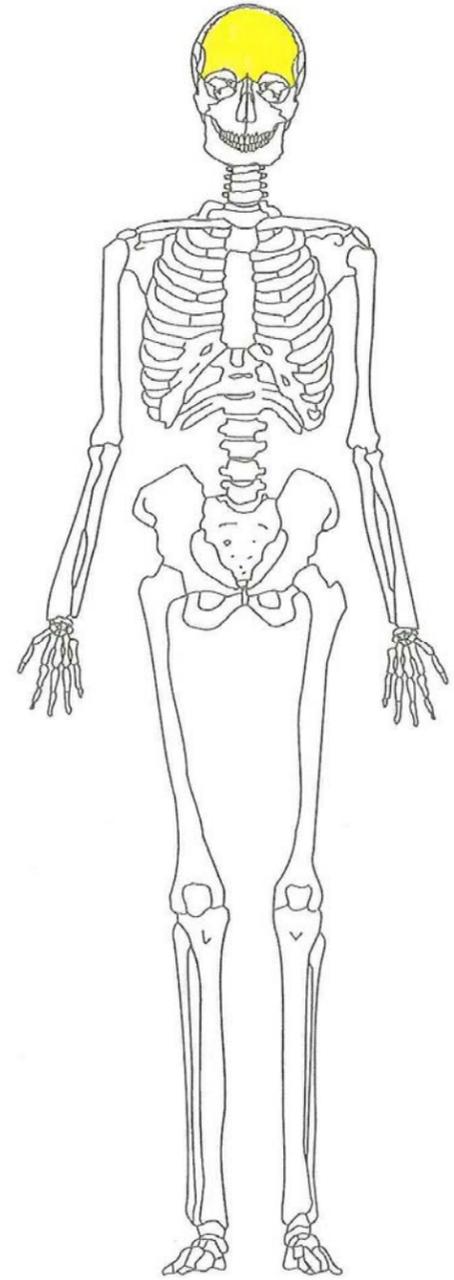
Dental Pathology

The teeth exhibited minor to insignificant dental wear. Two carious lesions were found on the distal interproximal surface of the left maxillary first molar and one on the occlusal cusp of the right mandibular first molar. Horizontal linear enamel hypoplastic grooves were observed on the left maxillary first incisor 3.32 mm and 6.09 mm from the CEJ and on the right maxillary canine 1.87 mm from the CEJ.

Osteological Summary for 156C

This individual is represented by cranial fragments and some dentition. The individual was determined to be subadult or older and of Asian ancestry and exhibited minor dental wear, carious lesions and hypoplasias.

156C
 Sex: indeterminate
 Age: Adult
 Ancestry: Asian
 Height: indeterminate
 Skeletal Pathology: none observed
 Dental Pathology: Carious Lesions, Hypoplasias



156C Skeletal Elements Represented												
Element Name	Axial MNE	Left MNE	Right MNE	Indet. MNE	Element Name	Left MNE	Right MNE	Indet. MNE	Element Name	Left MNE	Right MNE	Indet. MNE
Skull					Teeth				capitate			
frontal	1				upper I1	1			hamate			
parietal					upper I2				Metacarpals			
occipital					upper C		1		Phalanges			
temporal					upper PM1		1		proximal			
sphenoid					upper PM2		1		middle			
zygomatic					upper M1	1			distal			
maxilla					upper M2				Lower Limb			
palatine					upper M3				os coxae			
nasal					lower I1				femur			
ethmoid					lower I2				tibia			
lacrimial					lower C				fibula			
vomer					lower PM1	1			patella			
mandible					lower PM2				Ankle			
hyoid					lower M1		1		talus			
Vertebrae					lower M2				calcaneus			
cervical					lower M3				navicular			
c1					Upper Limb				medial cun.			
c2					clavicle				interm. cun.			
c3-7					scapula				lat.cuneiform			
thoracic					humerus				cuboid			
t1-t12					radius				Metatarsals			
lumbar					ulna				Phalanges			
l1-5					Wrist				proximal			
sacral					scaphoid				middle			
s1					lunate				distal			
s2-5					triquetrum							
coccyx					pisiform							
Sternum					trapezium							
Ribs					trapezoid							

Figure 3.117. Skeletal Summary 156C

RECOVERY 157CA

Mortuary Attributes

Burial Orientation

The burial was oriented with the head to the southwest and the feet to the northeast.

Coffin Shape and Size

The remnants of the coffin and/or distinct outline of differently colored soil indicated that the coffin was hexagonal in shape. It was 62 inches (157.48 cm) long, 17 inches (43.18 cm) at its maximum width and 8 inches (20.32 cm) at its minimum width.

Hardware

Three swing bail handles were recovered. Four non-diagnostic nail fragments were discarded.

Cultural Attributes

Clothing

No clothing-related artifacts were recovered.

Other Personal Artifacts

No other personal artifacts were recovered.

Other Inclusions or Offerings

One unidentified non-ferrous hardware object and one light green glass fragment were recovered.

Summary and Estimated Date of Burial

Swing bail handles were used between the 1850s and the 1910s, while the interment dates of the cemetery were between 1879 and 1922. The estimated date of burial is between 1879 and 1920.

Osteological Attributes

No bone was observed or recovered.

RECOVERY 157CB

Mortuary Attributes

Burial Orientation

The burial was oriented with the head to the southwest and the feet to the northeast.

Coffin Shape and Size

The burial was left in the wall, hindering an accurate determination of shape and size.

Hardware

No hardware was recovered.

Cultural Attributes

Clothing

No clothing-related artifacts were recovered.

Other Personal Artifacts

No other personal artifacts were recovered.

Other Inclusions or Offerings

Two fragments of a Chinese porcelain, celadon rice bowl were recovered. A Chinese character on the base could not be translated.

Summary and Estimated Date of Burial

This burial has been determined Chinese based on the rice bowl recovered.

No artifacts were recovered that could accurately estimate the date of burial. The date of burial is estimated to be between the interment dates of the cemetery, 1879 to 1922.

Osteological Attributes

The burial was left in place as no further impacts were planned.

RECOVERY 158C

Mortuary Attributes

Burial Orientation

The burial was oriented with the head to the southwest and the feet to the northeast.

Coffin Shape and Size

The remnants of the coffin and/or distinct outline of differently colored soil indicated that the coffin was hexagonal in shape. It was 78 inches (198.12 cm) long, 24 inches (60.96 cm) at its maximum width and 13 inches (33.02 cm) at its minimum width.

Hardware

Five fragments of four swing bail handles were recovered. These handles have “All-Seeing Eyes” and the initials “IOOF”, the Independent Order of Odd Fellows. Eleven fragments of five thumbscrews and escutcheons and three stamped tin coffin studs were also recovered.

Cultural Attributes

Clothing

Two Chinese-style ball buttons were recovered.

Other Personal Artifacts

One case, possibly a cigarette case, was recovered. Made from vulcanized rubber, it was in the form of a book with the initials “TPW” crudely carved on the spine and the initials “FEU” on the front.

Other Inclusions or Offerings

One olive-green glass, export-style beer bottle produced on a turn mold with a mineral-style finish was recovered. Two Chinese Wen and three Seated Liberty dimes (1871, 1888) were recovered. One Winchester .38 caliber shell casing and one leather knot were found. One Chinese burial brick with Chinese characters translated as Chan Chue, Ning Yap, Year 13 of Gunagxu (1887 to first month of 1888).

Summary and Estimated Date of Burial

This burial has been determined to be Chinese based on the Chinese-style buttons, Chinese wen and Chinese burial brick recovered. The Chinese-style buttons suggest that the individual was buried in traditional attire. The placement of the leather knot beside the Asian coins suggests the coins were strung on a leather thong. The lugs were upside-down relative to the normal placement of the handle, suggesting they may have been incorrectly assembled, possibly factory seconds.

The burial had to have occurred after the latest mint date of the coins, 1888, while bottles were produced on turn molds between 1890 and 1915. The estimated date of burial is between 1888 and 1915.

Osteological Attributes

No bone was observed or recovered.

RECOVERY 159C

Mortuary Attributes

Burial Orientation

The burial was oriented with the head to the southwest and the feet to the northeast. The smaller coffin was placed inside of the larger one, centered on the right side.

Coffin Shape and Size

The remnants of the larger coffin indicated that the coffin was hexagonal in shape. The remnants of the smaller coffin indicated that the coffin was rectangular in shape. The larger outline was 76 inches (193.04 cm) long, 18 inches (45.72 cm) at its maximum width and 8 inches (20.32 cm) at its minimum width. The smaller outline was 28 inches (71.12 cm) long and was 7 inches (17.78 cm) wide.

Hardware

Two swing bail handles with Freemason symbols, four stamped tin coffin studs and two thumbscrews and escutcheons were recovered from the larger coffin.

Cultural Attributes

Clothing

One ceramic, four-hole, dish-style button, three Chinese-style ball buttons, one non-ferrous shank-style button with a Chinese character and one non-ferrous buckle were recovered from the larger coffin.

Other Personal Artifacts

A small, non-ferrous fragment of a coin purse frame was recovered from the larger coffin. A brown, woven fabric blanket covered in maggot casings was recovered from the smaller coffin.

Other Inclusions or Offerings

Four Chinese burial brick fragments with Chinese characters translated as Wong Sek [illegible], Kam Bin village, Tung Hou, Ning Yap were recovered from the larger coffin. It also yielded one 1883 Seated Liberty dime, one aqua glass bottle fragment, one Chinese stoneware jar lid, one ferrous rod and one unidentified non-ferrous hardware object were recovered.

Summary and Estimated Date of Burial

This burial has been determined to be Chinese based on the Chinese-style buttons, burial brick and jar lid recovered. The presence of the Chinese and western-style buttons and the buckle suggest that the larger individual was buried in a combination of traditional and non-traditional attire. Burial had to have occurred after the mint date of the dime, 1883, while Prosser process buttons were manufactured between 1849 and 1910. The estimated date of burial is between 1883 and 1910.

Osteological Attributes

No bone was observed or recovered.

RECOVERY 160C

Mortuary Attributes

Burial Orientation

The burial was oriented with the head to the southwest and the feet to the northeast.

Coffin Shape and Size

The remnants of the coffin and/or distinct outline of differently colored soil indicated that the coffin was hexagonal in shape. It was 64 inches (162.56 cm) long, 21 inches (53.34 cm) at its maximum width and 10 inches (25.4 cm) at its minimum width.

Hardware

Eleven fragments of eight short bar handles, one thumbscrew and escutcheon and two stamped tin coffin studs were recovered.

Cultural Attributes

Clothing

Fragments of black, woven cotton fabric, a black, woven cotton rope fragment, one Chinese-style ball button and multiple leather and non-ferrous shoe fragments were recovered.

Other Personal Artifacts

One non-ferrous coin purse frame fragment was recovered.

Other Inclusions or Offerings

Two opaque white glass gaming pieces, three Chinese Wen, one non-ferrous utensil handle and one marble headstone were recovered. One light aqua-green Chinese pharmaceutical vial, mouth blown with a sheared finish, was also recovered. The cork of the vial was intact and the vial contained tiny, red pills. Three unidentified ferrous, flat fragments were recovered; multiple fragments were discarded.

Summary and Estimated Date of Burial

This burial has been determined to be Chinese based on the Chinese-style button, gaming pieces, Chinese wen, Chinese vial and headstone recovered. The Chinese-style button and the leather shoe fragments suggest that the individual was buried in a combination of traditional and non-traditional attire. The fragments of flat, ferrous metal are possibly the remains of a metal coffin cover used to seal out air, seal in communicable disease or protect against spirits of the dead.

No artifacts were recovered that could accurately estimate the date of burial. The date of burial is estimated to be between the interment dates of the cemetery, 1879 to 1922.

Osteological Attributes

No bone was observed or recovered.

RECOVERY 161C

Mortuary Attributes

Burial Orientation

The burial was oriented with the head to the southwest and the feet to the northeast.

Coffin Shape and Size

The remnants of the coffin and/or distinct outline of differently colored soil indicated that the coffin was hexagonal in shape. It was 33 inches (83.82 cm) long, 13 inches (33.02 cm) at its maximum width and 11 inches (27.94 cm) at its minimum width.

Hardware

Two non-diagnostic nail fragments were discarded.

Cultural Attributes

Clothing

No clothing-related artifacts were recovered.

Other Personal Artifacts

No other personal artifacts were recovered.

Other Inclusions or Offerings

No other inclusions or offerings were recovered.

Relevant Field Notes

The recovery was encountered in a test trench to determine the accuracy of GPR reports of anomalies below surface and their relation to subsurface recoveries.

Summary and Estimated Date of Burial

The coffin dimensions suggest a child burial or college box of medical waste.

No artifacts were recovered that could accurately estimate the date of burial. The date of burial is estimated to be between the interment dates of the cemetery, 1879 to 1922.

Osteological Attributes

No bone was observed or recovered.

RECOVERY 162C

Mortuary Attributes

Burial Orientation

The burial was oriented northwest-southeast.

Coffin Shape and Size

The remnants of the coffin and/or distinct outline of differently colored soil indicated that the coffin was rectangular in shape. It was 24 inches (60.96 cm) long and 12 inches (30.48 cm) wide.

Hardware

Two non-diagnostic nail fragments were discarded.

Cultural Attributes

Clothing

No clothing-related artifacts were recovered.

Other Personal Artifacts

No other personal artifacts were recovered.

Other Inclusions or Offerings

One clear glass bottle fragment with unidentified contents and manufacture was recovered.

Relevant Field Notes

The recovery was encountered in a test trench to determine the accuracy of GPR reports of anomalies below surface and their relation to subsurface recoveries.

Summary and Estimated Date of Burial

The coffin dimensions suggest a child burial or college box of medical waste.

No artifacts were recovered that could accurately estimate the date of burial. The date of burial is estimated to be between the interment dates of the cemetery, 1879 to 1922.

Osteological Attributes

Inventory and Preservation

This individual is represented by a skull fragment, humerus and single bones from the hand and foot in poor condition.

Age

Could not be determined due to missing elements.

Sex

Could not be determined due to missing elements.

Stature

Could not be determined due to missing elements.

Ancestry

Could not be determined due to missing elements.

Skeletal Pathology

No pathological conditions were observed on the recovered remains.

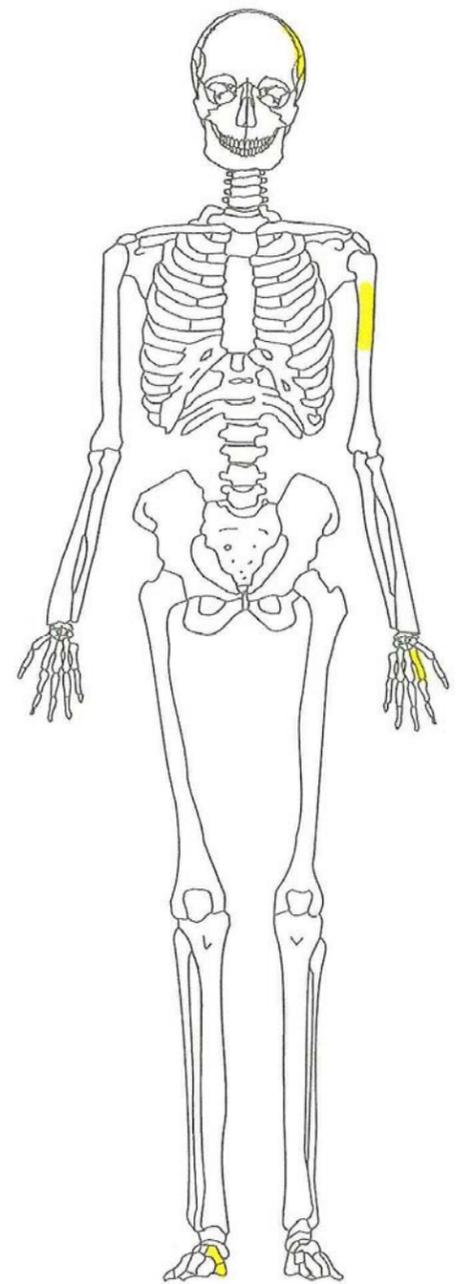
Dental Pathology

Could not be determined due to missing elements.

Osteological Summary for 162C

This individual is represented by humerus and calcaneus fragments in poor condition and the biological profile could not be determined due to missing elements.

162C
 Sex: indeterminate
 Age: indeterminate
 Ancestry: indeterminate
 Height: indeterminate
 Skeletal Pathology: none observed
 Dental Pathology: indeterminate



162C Skeletal Elements Represented												
Element	Axial	Left	Right	Indet.	Element	Left	Right	Indet.	Element	Left	Right	Indet.
Name	MNE	MNE	MNE	MNE	Name	MNE	MNE	MNE	Name	MNE	MNE	MNE
Skull					Teeth				capitate			
frontal					upper I1				hamate			
parietal				1	upper I2				Metacarpals			1
occipital					upper C				Phalanges			
temporal					upper PM1				proximal			
sphenoid					upper PM2				middle			
zygomatic					upper M1				distal			
maxilla					upper M2				Lower Limb			
palatine					upper M3				os coxae			
nasal					lower I1				femur			
ethmoid					lower I2				tibia			
lacrimial					lower C				fibula			
vomer					lower PM1				patella			
mandible					lower PM2				Ankle			
hyoid					lower M1				talus			
Vertebrae					lower M2				calcaneus		1	
cervical					lower M3				navicular			
c1					Upper Limb				medial cun.			
c2					clavicle				interm. cun.			
c3-7					scapula				lat.cuneiform			
thoracic					humerus			1	cuboid			
t1-t12					radius				Metatarsals			
lumbar					ulna				Phalanges			
l1-5					Wrist				proximal			
sacral					scaphoid				middle			
s1					lunate				distal			
s2-5					triquetrum							
coccyx					pisiform							
Sternum					trapezium							
Ribs					trapezoid							

Figure 3.118. Skeletal Summary 162C

RECOVERY 163C

Mortuary Attributes

Burial Orientation

Burial orientation could not be determined.

Coffin Shape and Size

The burial was heavily impacted; no coffin was present.

Hardware

No hardware was recovered.

Cultural Attributes

Clothing

No clothing-related artifacts were recovered.

Other Personal Artifacts

One red, white and brown glass slag marble was recovered.

Other Inclusions or Offerings

No other inclusions or offerings were recovered.

Relevant Field Notes

The recovery was encountered in a test trench to determine the accuracy of GPR reports of anomalies below surface and their relation to subsurface recoveries.

Summary and Estimated Date of Burial

No artifacts were recovered that could accurately estimate the date of burial. The date of burial is estimated to be between the interment dates of the cemetery, 1879 to 1922.

Osteological Attributes

Inventory and Preservation

This individual is represented by a relatively complete skull, dentition and upper and lower limb bones (Figure 3.119). The skull and the upper limb bones are in fair condition but fragmented. Small fragments were recovered from the lower limb bones, two thoracic vertebrae and three ribs and are in poor condition.

Age

The age of the individual was determined to be an adult based on the distal facet of the left mandibular second molar indicating complete eruption of the left mandibular third molar (>21 years).

Sex

The sex of the individual was determined to be male based on the mental eminence and morphology of the mandible.

Stature

Could not be determined due to missing elements.

Ancestry

Could not be determined due to missing elements.

Skeletal Pathology

No pathological conditions were observed on the recovered remains.

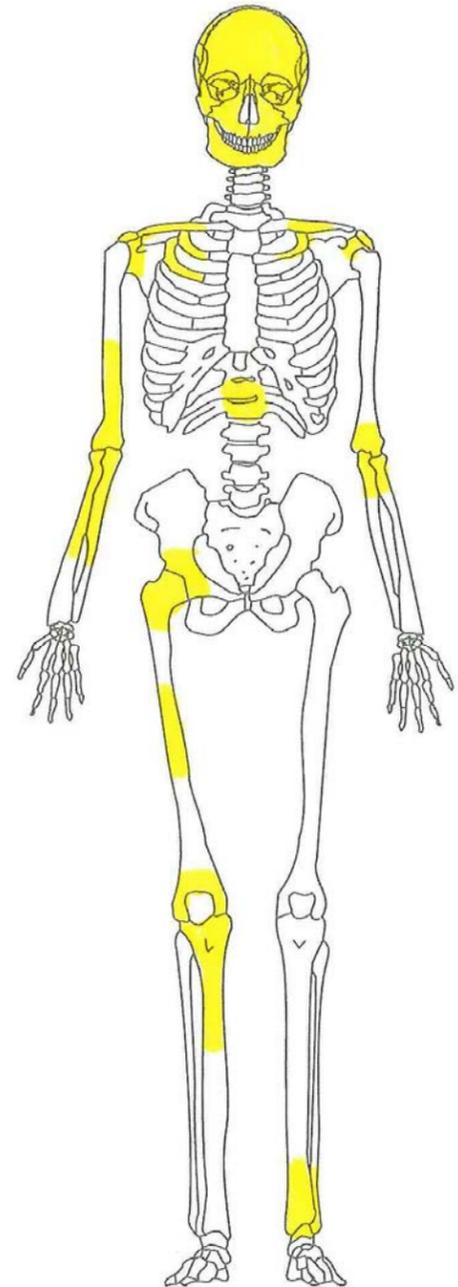
Dental Pathology

Minor dental wear was observed on the anterior teeth, while the molar exhibited moderate wear. Linear horizontal enamel hypoplastic grooves were observed 2.13 mm from the CEJ on the left maxillary first premolar; 5.43 mm and 2.91 mm from the CEJ on the right maxillary second premolar; 4.27 mm and 2.19 mm from the CEJ on the left maxillary second premolar; 3.16 mm from the CEJ on the right maxillary first molar; 3.50 mm from the CEJ on the left maxillary first molar; 2.82 mm from the CEJ on the right maxillary second molar; 2.75 mm from the CEJ on the left maxillary second molar; 2.73 mm from the CEJ on the left mandibular first incisor; 3.31 mm from the CEJ on the right mandibular first incisor; 3.40 mm from the CEJ on the left mandibular second incisor; 3.89 mm and 2.00 mm from the CEJ on the right mandibular second incisor; 4.82 mm, 3.87 mm and 1.83 mm from the CEJ on the left mandibular canine; 5.56 mm and 4.20 mm from the CEJ on the right mandibular canine; 3.59 mm and 1.85 mm from the CEJ on the left mandibular first premolar; 2.09 mm from the CEJ on the left mandibular second premolar; 3.97 mm from the CEJ on the right mandibular second premolar; 3.09 mm from the CEJ on the left mandibular first molar; and 4.63 mm from the CEJ on the left mandibular second molar. Linear vertical enamel hypoplastic grooves were found on the left mandibular second molar.

Osteological Summary for 163C

This individual is represented mainly by large cranial fragments and dentition but small fragments of postcranial bones and was determined to be an adult male with hypoplasias and minor to moderate dental wear.

163C
 Sex: Male
 Age: Adult
 Ancestry: indeterminate
 Height: indeterminate
 Skeletal Pathology: none observed
 Dental Pathology: Hypoplasias



163C Skeletal Elements Represented												
Element Name	Axial MNE	Left MNE	Right MNE	Indet. MNE	Element Name	Left MNE	Right MNE	Indet. MNE	Element Name	Left MNE	Right MNE	Indet. MNE
Skull					Teeth				capitate			
frontal	1				upper I1				hamate			
parietal		1	1		upper I2				Metacarpals			
occipital	1				upper C				Phalanges			
temporal		1	1		upper PM1	1			proximal			
sphenoid	1				upper PM2	1	1		middle			
zygomatic		1	1		upper M1	1	1		distal			
maxilla		1	1		upper M2	1	1		Lower Limb			
palatine		1	1		upper M3				os coxae		1	
nasal		1	1		lower I1	1	1		femur		1	
ethmoid	1				lower I2	1	1		tibia	1	1	
lacrimial		1	1		lower C	1	1		fibula	1		
vomer	1				lower PM1	1	1		patella			
mandible	1				lower PM2	1	1		Ankle			
hyoid					lower M1	1	1		talus	1		
Vertebrae					lower M2	1			calcaneus			
cervical					lower M3				navicular			
c1					Upper Limb				medial cun.			
c2					clavicle	1	1		interm. cun.			
c3-7					scapula	1	1		lat.cuneiform			
thoracic					humerus	1	1		cuboid			
t1-t12	2				radius	1	1		Metatarsals			
lumbar					ulna	1	1		Phalanges			
l1-5					Wrist				proximal			
sacral					scaphoid				middle			
s1					lunate				distal			
s2-5					triquetrum							
coccyx					pisiform							
Sternum					trapezium							
Ribs		1	2		trapezoid							

Figure 3.119 Skeletal Summary 163C

RECOVERY 164C

Mortuary Attributes

Burial Orientation

The burial was oriented with the head to the southwest and the feet to the northeast.

Coffin Shape and Size

The remnants of the coffin and/or distinct outline of differently colored soil indicated that the coffin was hexagonal in shape. It appeared to be 50 inches (127 cm) long, 13 inches (33.02 cm) at its maximum width and 8 inches (20.32 cm) at its minimum width.

Hardware

No hardware was recovered.

Cultural Attributes

Clothing

Two ceramic, four-hole buttons were recovered, one dish-style and one pie crust-style.

Other Personal Artifacts

No other personal artifacts were recovered.

Other Inclusions or Offerings

One fragment of a Euro-American utility stoneware jar and a non-ferrous Chinese padlock were recovered.

Relevant Field Notes

The recovery was encountered in a test trench to determine the accuracy of GPR reports of anomalies below surface and their relation to subsurface recoveries.

Summary and Estimated Date of Burial

This burial has been determined to be Chinese based on the Chinese padlock recovered. The presence of western-style buttons suggests that the individual was buried in non-traditional attire.

Prosser process buttons were manufactured between 1849 and 1910, while the interment dates of the cemetery were between 1879 and 1922. The estimated date of burial is between 1879 and 1910.

Osteological Attributes

Inventory and Preservation

This individual is represented by a few cranial fragments, dentition and mostly upper and lower limb bones (Figure 3.120). The bone is in fair condition, but fragmented and friable.

Age

The age of the individual was determined to be an adult based on the complete fusion of the proximal epiphysis of the tibiae (>22 years).

Sex

The sex of the individual was determined to be male based on the supraorbital margin.

Stature

Could not be determined due to missing elements.

Ancestry

Could not be determined due to missing elements.

Skeletal Pathology

No pathological conditions were observed on the recovered remains.

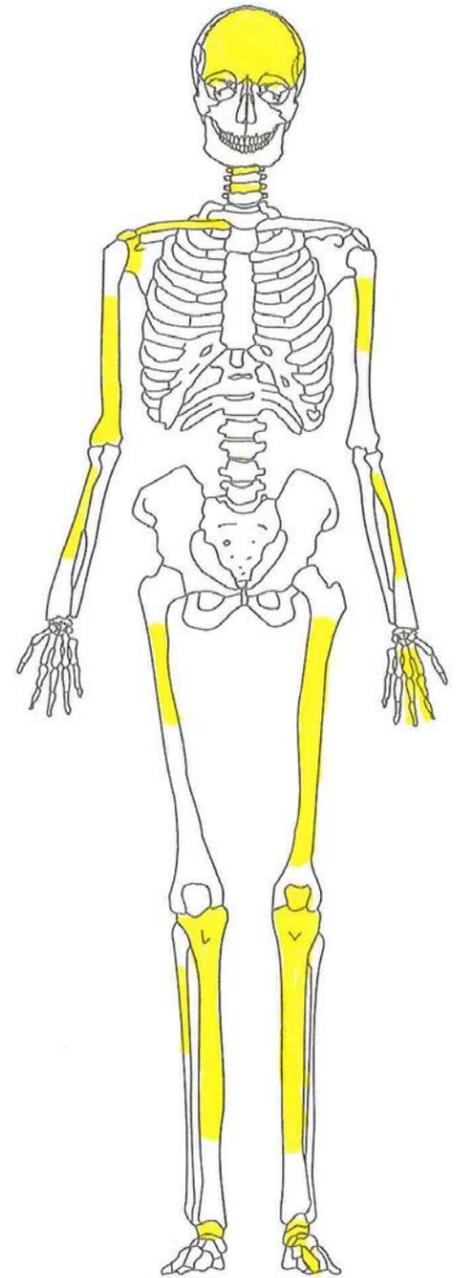
Dental Pathology

No pathological conditions were observed on the recovered remains.

Osteological Summary for 164C

This individual was represented by cranial fragments and limb bones and determined to be an adult male.

164C
 Sex: Male
 Age: Adult
 Ancestry: indeterminate
 Height: indeterminate
 Skeletal Pathology: none observed
 Dental Pathology: none observed



164C Skeletal Elements Represented												
Element Name	Axial MNE	Left MNE	Right MNE	Indet. MNE	Element Name	Left MNE	Right MNE	Indet. MNE	Element Name	Left MNE	Right MNE	Indet. MNE
Skull					Teeth				capitate			
frontal	1				upper I1				hamate			
parietal				1	upper I2				Metacarpals	2		
occipital	1				upper C				Phalanges			
temporal					upper PM1				proximal			2
sphenoid					upper PM2				middle			2
zygomatic					upper M1				distal			
maxilla					upper M2				Lower Limb			
palatine					upper M3				os coxae			
nasal					lower I1				femur	1	1	
ethmoid					lower I2				tibia	1	1	
lacrima					lower C				fibula		1	
vomer					lower PM1				patella	1		
mandible					lower PM2		1		Ankle			
hyoid					lower M1		1		talus	1	1	
Vertebrae					lower M2		1		calcaneus			
cervical					lower M3				navicular			
c1	1				Upper Limb				medial cun.			
c2					clavicle		1		interm. cun.			
c3-7	1				scapula		1		lat.cuneiform			
thoracic					humerus	1	1		cuboid			
t1-t12					radius	1	1		Metatarsals	1		
lumbar					ulna				Phalanges			
l1-5					Wrist				proximal			
sacral					scaphoid				middle			
s1					lunate				distal			
s2-5					triquetrum							
coccyx					pisiform							
Sternum					trapezium							
Ribs					trapezoid							

Figure 3.120. Skeletal Summary 164C

RECOVERY 165C

Mortuary Attributes

Burial Orientation

The burial was oriented with the head to the southwest and the feet to the northeast.

Coffin Shape and Size

The remnants of the coffin and/or distinct outline of differently colored soil indicated that the coffin was hexagonal in shape. It was 68 inches (172.72 cm) long, 18 inches (45.72 cm) at its maximum width and 7 inches (17.78 cm) at its minimum width.

Hardware

Three swing bail handles, two thumbscrews and escutcheons, fragments of stamped tin coffin studs and seven fragments of a light aqua plate glass coffin viewing window were recovered.

Cultural Attributes

Clothing

Five ceramic, four-hole, dish-style buttons were recovered, three plain and two calico. In addition, sixteen Chinese-style ball buttons and one safety pin fragment were recovered.

Other Personal Artifacts

Two fragments of one non-ferrous coin purse frame, one brown, woven fabric blanket and one marbled, yellow-green, celluloid pipe bit were recovered.

Other Inclusions or Offerings

Two unidentified fragments of a ferrous, curved rim and one .39 caliber cartridge case were recovered.

Summary and Estimated Date of Burial

This burial has been determined to be Chinese based on the Chinese-style buttons recovered. The Chinese and western-style buttons suggest that the individual was buried in a combination of traditional and non-traditional attire. The ferrous rim fragments are possibly the remains of a metal coffin cover used to seal out air or communicable disease.

Swing bail coffin handles were used between the 1850s and the 1910s, while the interment dates of the cemetery were between 1879 and 1922. The estimated date of burial is between 1879 and 1920.

Osteological Attributes

Inventory and Preservation

This individual is represented by a skull and 30% of the post-cranial skeleton (Figure 3.121). The cranium was very fragmentary and only consists of parietals, occipital, temporals and sphenoid. The post-cranial skeleton consisted of left arm, the femora, a tibia and right navicular. The bone is in poor condition.

Age

The age of the individual was determined to be adult based on the development of the long bones.

Sex

The sex of the individual was determined to be male based on the left mastoid process.

Stature

Could not be determined due to missing elements.

Ancestry

Could not be determined due to missing elements.

Skeletal Pathology

No pathological conditions were observed on the recovered remains.

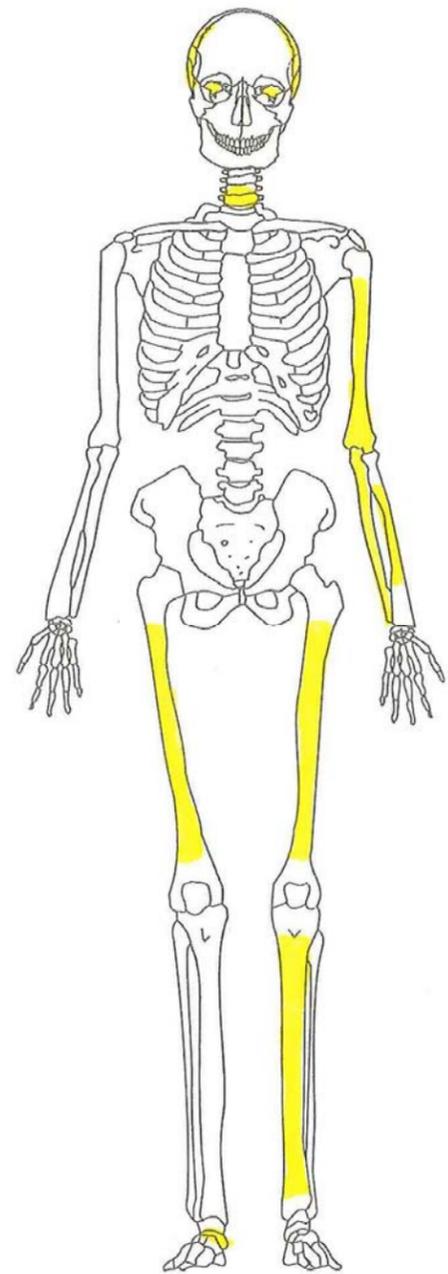
Dental Pathology

Could not be determined due to missing elements.

Osteological Summary for 165C

This individual is represented by cranial and long bone fragments and determined to be an adult male.

165C
 Sex: Possible Male
 Age: Adult
 Ancestry: indeterminate
 Height: indeterminate
 Skeletal Pathology: none observed
 Dental Pathology: indeterminate



165C Skeletal Elements Represented												
Element Name	Axial MNE	Left MNE	Right MNE	Indet. MNE	Element Name	Left MNE	Right MNE	Indet. MNE	Element Name	Left MNE	Right MNE	Indet. MNE
Skull					Teeth				capitate			
frontal					upper I1				hamate			
parietal		1	1		upper I2				Metacarpals			
occipital	1				upper C				Phalanges			
temporal		1	1		upper PM1				proximal			
sphenoid	1				upper PM2				middle			
zygomatic					upper M1				distal			
maxilla					upper M2				Lower Limb			
palatine					upper M3				os coxae			
nasal					lower I1				femur	1	1	
ethmoid					lower I2				tibia			1
lacrimial					lower C				fibula			
vomer					lower PM1				patella			
mandible					lower PM2				Ankle			
hyoid					lower M1				talus			
Vertebrae					lower M2				calcaneus			
cervical					lower M3				navicular		1	
c1					Upper Limb				medial cun.			
c2					clavicle				interm. cun.			
c3-7	2				scapula				lat.cuneiform			
thoracic					humerus	1			cuboid			
t1-t12					radius	1			Metatarsals			
lumbar					ulna	1			Phalanges			
l1-5					Wrist				proximal			
sacral					scaphoid				middle			
s1					lunate				distal			
s2-5					triquetrum							
coccyx					pisiform							
Sternum					trapezium							
Ribs					trapezoid							

Figure 3.121. Skeletal Summary 165C

RECOVERY 166C

Mortuary Attributes

Burial Orientation

The burial was oriented southwest-northeast.

Coffin Shape and Size

The remnants of the coffin and/or distinct outline of differently colored soil indicated that the coffin was rectangular in shape. It was heavily impacted, hindering an accurate measurement. The remainder was 20 inches (50.8 cm) long and was 12 inches (30.48 cm) wide.

Hardware

No hardware was recovered.

Cultural Attributes

Clothing

No clothing-related artifacts were recovered.

Other Personal Artifacts

No other personal artifacts were recovered.

Other Inclusions or Offerings

No other inclusions or offerings were recovered.

Summary and Estimated Date of Burial

No artifacts were recovered that could accurately estimate the date of burial. The date of burial is estimated to be between the interment dates of the cemetery, 1879 to 1922.

Osteological Attributes

No bone was observed or recovered.

RECOVERY 167C

Mortuary Attributes

Burial Orientation

The burial was oriented with the head to the southwest and the feet to the northeast.

Coffin Shape and Size

The remnants of the coffin and/or distinct outline of differently colored soil indicated that the coffin was hexagonal in shape. It was heavily impacted, hindering an accurate determination of size. The remainder was 32 inches (81.28 cm) long, 14 inches (35.56 cm) at its maximum width and 11 inches (27.94 cm) at its minimum width.

Hardware

Nine non-diagnostic nail fragments were discarded.

Cultural Attributes

Clothing

No clothing-related artifacts were recovered.

Other Personal Artifacts

No other personal artifacts were recovered.

Other Inclusions or Offerings

One fragment of a Chinese utility stoneware jar and two small fragments of a Chinese porcelain were recovered.

Summary and Estimated Date of Burial

This burial has been determined to be Chinese based on the Chinese ceramics recovered.

No artifacts were recovered that could accurately estimate the date of burial. The date of burial is estimated to be between the interment dates of the cemetery, 1879 to 1922.

Osteological Attributes

Inventory and Preservation

This individual is represented by the midshaft of a right femur and long bone fragments (Figure 3.122). The condition of the bone is poor and friable.

Age

The age of the individual was determined to be an adult based on the size and morphology of the midshaft of the femur.

Sex

Could not be determined due to missing elements.

Stature

Could not be determined due to missing elements.

Ancestry

Could not be determined due to missing elements.

Skeletal Pathology

No pathological conditions were observed on the recovered remains.

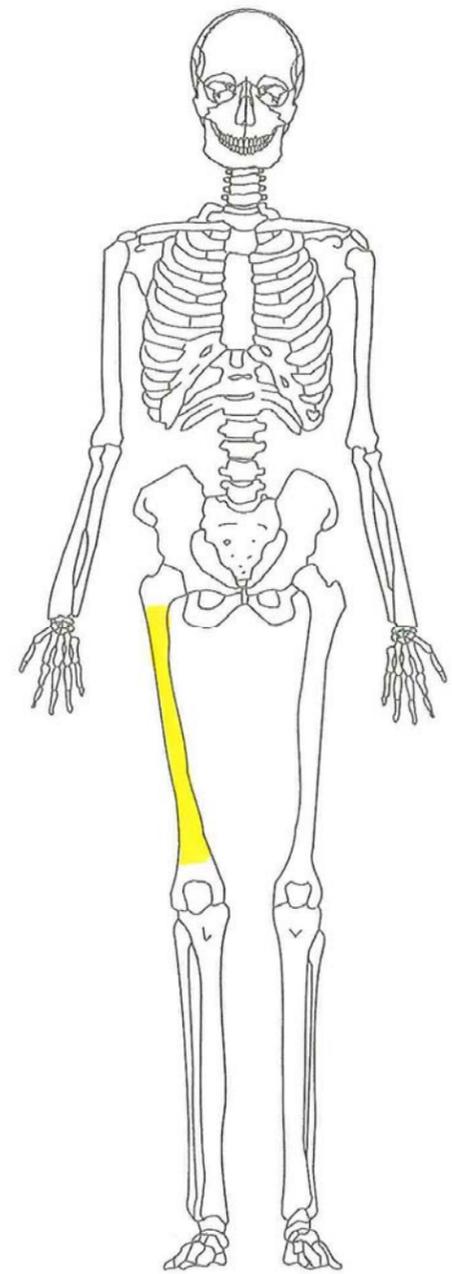
Dental Pathology

Could not be determined due to missing elements.

Osteological Summary for 167C

The individual is represented by long bone fragments and determined to be an adult.

167C
 Sex: indeterminate
 Age: Adult
 Ancestry: indeterminate
 Height: indeterminate
 Skeletal Pathology: none observed
 Dental Pathology: none observed



167C Skeletal Elements Represented												
Element Name	Axial MNE	Left MNE	Right MNE	Indet. MNE	Element Name	Left MNE	Right MNE	Indet. MNE	Element Name	Left MNE	Right MNE	Indet. MNE
Skull					Teeth				capitate			
frontal					upper I1				hamate			
parietal					upper I2				Metacarpals			
occipital					upper C				Phalanges			
temporal					upper PM1				proximal			
sphenoid					upper PM2				middle			
zygomatic					upper M1				distal			
maxilla					upper M2				Lower Limb			
palatine					upper M3				os coxae			
nasal					lower I1				femur		1	
ethmoid					lower I2				tibia			
lacrimial					lower C				fibula			
vomer					lower PM1				patella			
mandible					lower PM2				Ankle			
hyoid					lower M1				talus			
Vertebrae					lower M2				calcaneus			
cervical					lower M3				navicular			
c1					Upper Limb				medial cun.			
c2					clavicle				interm. cun.			
c3-7					scapula				lat.cuneiform			
thoracic					humerus				cuboid			
t1-t12					radius				Metatarsals			
lumbar					ulna				Phalanges			
l1-5					Wrist				proximal			
sacral					scaphoid				middle			
s1					lunate				distal			
s2-5					triquetrum							
coccyx					pisiform							
Sternum					trapezium							
Ribs					trapezoid							

Figure 3.122. Skeletal Summary 167C

RECOVERY 168C

Mortuary Attributes

Burial Orientation

The burial was oriented southwest-northeast.

Coffin Shape and Size

The remnants of the coffin and/or distinct outline of differently colored soil indicated that the coffin was rectangular in shape. It was 24 inches (60.96 cm) long and 13 inches (33.02 cm) wide.

Hardware

Four non-diagnostic nail fragments were recovered.

Cultural Attributes

Clothing

One vulcanized rubber, stippled edge button was recovered.

Other Personal Artifacts

A brown, woven fabric blanket was recovered.

Other Inclusions or Offerings

One fragment of a clear glass bottle with unidentified contents and manufacture was recovered. Two fragments of a non-ferrous, unidentified object were recovered.

Summary and Estimated Date of Burial

The coffin dimensions, in combination with the osteological information, indicates this was a college box of medical waste.

No artifacts were recovered that could accurately estimate the date of burial. The date of burial is estimated to be between the interment dates of the cemetery, 1879 and 1922.

Osteological Attributes

Inventory and Preservation

This individual is represented by cranial fragments and 70% of the post-cranial skeleton (Figure 3.123). The condition of the remains was good.

Age

The individual was determined to be an adult based on the complete eruption and significant wear of maxillary and mandibular third molars (>25 years).

Sex

The sex of the individual was determined to be a male based on the greater sciatic notch of the os coxa and mandibular morphology.

Stature

Could not be determined due to missing elements.

Ancestry

The ancestry of the individual was determined to be Euro-American based on nasal morphology.

Skeletal Pathology

No pathological conditions were observed on the recovered remains.

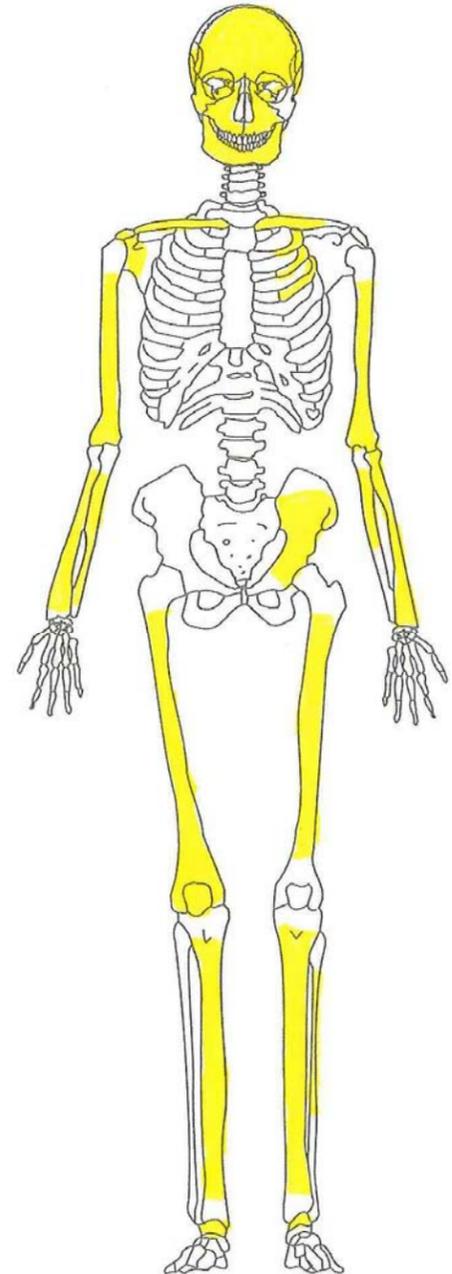
Dental Pathology

The teeth recovered exhibited minor wear. Carious lesions were present on the distal interproximal surface of the left maxillary first molar, the mesial interproximal surface of the left maxillary second molar, the mesial interproximal and cervical surfaces of the left mandibular second molar, the distal interproximal surface of the left mandibular second premolar, the cervical surface of the right mandibular second molar, the buccal surface of the right mandibular third molar and the mesial and distal interproximal surfaces of the left mandibular first premolar. There was an abscess present on the mandible inferior to the left mandibular first molar. Little of the left mandibular first molar remained because of a large carious lesion that has destroyed the crown. Hypoplasia in form of linear horizontal grooves were present 3.65 mm from CEJ on the right maxillary second premolar, 5.03 mm from CEJ on the right maxillary first premolar and 5.97 mm from CEJ on the right mandibular canine.

Osteological Summary for 168C

This individual is represented by a partial skull with teeth and the upper and lower limb bones. The individual was determined to be an adult male of Euro-American ancestry with carious lesions, hypoplasias, an abscess and minor dental wear

168C
 Sex: Male
 Age: Adult
 Ancestry: Euro-American
 Height: indeterminate
 Skeletal Pathology: none observed
 Dental Pathology: Abscess, Carious Lesions, Hypoplasias



168C Skeletal Elements Represented												
Element Name	Axial MNE	Left MNE	Right MNE	Indet. MNE	Element Name	Left MNE	Right MNE	Indet. MNE	Element Name	Left MNE	Right MNE	Indet. MNE
Skull					Teeth				capitate			
frontal	1				upper I1				hamate			
parietal				1	upper I2				Metacarpals			
occipital					upper C				Phalanges			
temporal		1	1		upper PM1		1		proximal			
sphenoid					upper PM2		1		middle			
zygomatic			1		upper M1	1	1		distal			
maxilla		1	1		upper M2	1	1		Lower Limb			
palatine					upper M3	1	1		os coxae	1		
nasal					lower I1				femur	1	1	
ethmoid					lower I2				tibia	1	1	
lacrimial					lower C		1		fibula			1
vomer					lower PM1	1	1		patella		1	
mandible	1				lower PM2	1	1		Ankle			
hyoid					lower M1	1	1		talus	1	1	
Vertebrae					lower M2	1	1		calcaneus			
cervical					lower M3	1	1		navicular			
c1					Upper Limb				medial cun.			
c2					clavicle	1	1		interm. cun.			
c3-7					scapula		1		lat.cuneiform			
thoracic					humerus	1	1		cuboid			
t1-t12					radius	1	1		Metatarsals			
lumbar					ulna	1	1		Phalanges			
l1-5					Wrist				proximal			
sacral					scaphoid				middle			
s1					lunate				distal			
s2-5					triquetrum							
coccyx					pisiform							
Sternum					trapezium							
Ribs		3			trapezoid							

Figure 3.123. Skeletal Summary 168C

RECOVERY 169C

Mortuary Attributes

Burial Orientation

The burial was oriented southwest-northeast.

Coffin Shape and Size

The remnants of the coffin and/or distinct outline of differently colored soil indicated that the coffin was rectangular in shape. It was 24 inches (60.96 cm) long and 12 inches (30.48 cm) wide.

Hardware

No hardware was recovered.

Cultural Attributes

Clothing

No clothing-related artifacts were recovered.

Other Personal Artifacts

No other personal artifacts were recovered.

Other Inclusions or Offerings

Two aqua-green glass bottle fragments with unidentified contents and manufacture were recovered.

Summary and Estimated Date of Burial

The coffin dimensions suggest this was an infant burial or a college box of medical waste.

No artifacts were recovered that could accurately estimate the date of burial. The date of burial is estimated to be between the interment dates of the cemetery, 1879 and 1922.

Osteological Attributes

No bone was observed or recovered.

RECOVERY 170C

Mortuary Attributes

Burial Orientation

The burial was oriented with the head to the northwest and the feet to the southeast.

Coffin Shape and Size

The remnants of the coffin and/or distinct outline of differently colored soil indicated that the coffin was rectangular in shape. It was 70 inches (177.8 cm) long and 15 inches (38.1) wide.

Hardware

Three wire nails were recovered.

Cultural Attributes

Clothing

No clothing-related artifacts were recovered.

Other Personal Artifacts

No other personal artifacts were recovered.

Other Inclusions or Offerings

No other inclusions or offerings were recovered.

Relevant Field Notes

The recovery was found in an east-west alignment perpendicular to other recoveries in the area.

Summary and Estimated Date of Burial

The use of wire nails on coffins date from 1880, while the interment dates of the cemetery were between 1879 and 1922. The estimated date of burial is between 1880 and 1922.

Osteological Attributes

Inventory and Preservation

This individual is represented by a complete skull with dentition and 90% of the post-cranial skeleton (Figure 3.124). The post-cranial skeleton is mostly complete except for the sternum, ribs and the sacrum and the vertebral column, hands and feet were partial. The bone is in excellent condition.

Age

The age of the individual was determined to be a young to middle adult based on the closure of the external cranial vault suture (27-45 years).

Sex

The sex of the individual was determined to be female based on cranial morphology and the greater sciatic notch of the os coxa.

Stature

The height of the individual was determined to be 5 feet and 3.1 inches (160.27 cm) based on humerus and femur lengths.

Ancestry

The ancestry of the individual was determined to be Asian based on cranial and dental morphology.

Skeletal Pathology

Porotic hyperostosis was observed in the form of true to coalesced porosity on the posterior parietal bosses of the left and right parietals. The bone is smooth around the porosity indicating that it was in the process of healing.

Postmortem incision of the cranium was also observed. The superior cranial vault was cut transversely, superior to the left and right temporals. The cut mark is smooth with incremental striations caused by a mechanized saw. Most of the cut diameter is broken off and the skullcap is warped, which causes non-alignment with the rest of the cranium. These cut marks may indicate that an autopsy was performed on the individual.

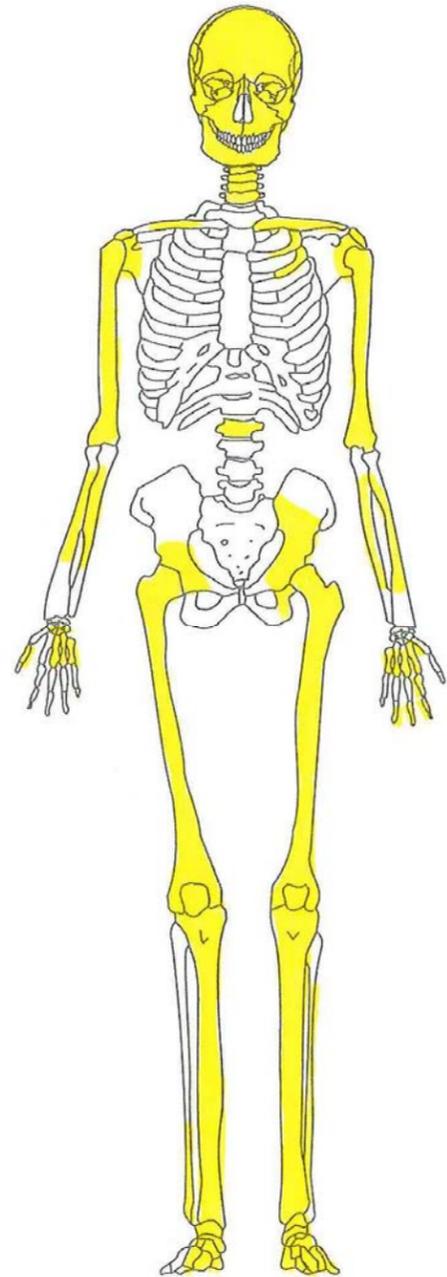
Dental Pathology

Minor to moderate dental wear was found on the teeth recovered. Antemortem tooth loss was observed for the left and right maxillary first molars and the right maxillary third molar. Carious lesions, which destroyed the most of the crown, were observed on the left maxillary second premolar and right mandibular second incisor. Carious lesions were also found on the occlusal surface of the left mandibular third molar and the distal interproximal surface of the right maxillary second premolar. Hypoplasias in the form of linear horizontal grooves were observed 3.30 mm from CEJ on the left mandibular canine and 1.79 mm from CEJ on the left mandibular first premolar. Abscesses were observed on the maxilla superior to the left maxillary first premolar and on the mandible inferior to the right mandibular second incisor.

Osteological Summary for 170C

This individual is represented by a nearly complete skeleton. The individual was determined to be a young to middle adult female of Asian ancestry with porotic hyperostosis, antemortem tooth loss, hypoplasias, carious lesions, abscesses and minor to moderate dental wear. The individual had postmortem cuts of the skullcap; possibly from an autopsy. The height was determined to be 5 feet and 3.1 inches (160.27 cm).

170C
 Sex: Female
 Age: Young to Middle Adult
 Ancestry: Asian
 Height: 5' 3.1" (160.27 cm)
 Skeletal Pathology: Porotic Hyperostosis, Postmortem Cut
 Dental Pathology: Abscess, Carious Lesions, Hypoplasias



170C Skeletal Elements Represented												
Element Name	Axial MNE	Left MNE	Right MNE	Indet. MNE	Element Name	Left MNE	Right MNE	Indet. MNE	Element Name	Left MNE	Right MNE	Indet. MNE
Skull					Teeth				capitate	1	1	
frontal	1				upper I1	1	1		hamate			
parietal		1	1		upper I2	1	1		Metacarpals	5	3	
occipital	1				upper C	1	1		Phalanges			
temporal		1	1		upper PM1	1	1		proximal			1
sphenoid	1				upper PM2				middle			3
zygomatic		1	1		upper M1				distal			3
maxilla		1	1		upper M2	1			Lower Limb			
palatine		1	1		upper M3	1			os coxae	1	1	
nasal		1	1		lower I1	1	1		femur	1	1	
ethmoid	1				lower I2	1	1		tibia	1	1	
lacrimial		1	1		lower C	1	1		fibula	1	1	
vomer	1				lower PM1	1	1		patella	1	1	
mandible	1				lower PM2	1	1		Ankle			
hyoid	1				lower M1	1	1		talus	1	1	
Vertebrae					lower M2	1	1		calcaneus	1	1	
cervical					lower M3	1	1		navicular	1	1	
c1	1				Upper Limb				medial cun.	1	1	
c2	1				clavicle	1	1		interm. cun.	1	1	
c3-7	2				scapula	1	1		lat.cuneiform	1		
thoracic					humerus	1	1		cuboid	1	1	
t1-t12	2				radius	1	1		Metatarsals	4	1	
lumbar					ulna	1	1		Phalanges			
l1-5	1				Wrist				proximal	2		
sacral					scaphoid	1	1		middle			
s1					lunate	1	1		distal			
s2-5					triquetrum							
coccyx					pisiform							
Sternum					trapezium		1					
Ribs				2	trapezoid							

Figure 3.124. Skeletal Summary 170C

RECOVERY 171C

Mortuary Attributes

Burial Orientation

The burial was oriented with the head to the northwest and the feet to the southeast.

Coffin Shape and Size

The remnants of the coffin and/or distinct outline of differently colored soil indicated that the coffin was rectangular in shape. It was 67 inches (170.10 cm) long and 23 inches (58.42 cm) wide.

Hardware

Three non-diagnostic coffin nails were discarded.

Cultural Attributes

Clothing

No clothing-related artifacts were recovered.

Other Personal Artifacts

No other personal artifacts were recovered.

Other Inclusions or Offerings

No other inclusions or offerings were recovered.

Relevant Field Notes

The recovery was found in an east-west alignment perpendicular to other recoveries in the area.

Summary and Estimated Date of Burial

No artifacts were recovered that could accurately estimate the date of burial. The date of burial is estimated to be between the interment dates of the cemetery, 1879 to 1922.

Osteological Attributes

Inventory and Preservation

This individual is presented by a complete skull with dentition and 90% of the post-cranial skeleton, except for ribs and sacrum (Figure 3.125). The bone is in good condition.

Age

The age of the individual was determined to a middle to old adult based on the auricular surfaces of the os coxae (40-59 years).

Sex

The sex of the individual was determined to be male based on the greater sciatic notches of the os coxae and cranial morphology.

Stature

The height of the individual was calculated to be 5 feet and 8.4 inches (173.77 cm) based on the length of the left femur.

Ancestry

The ancestry of the individual was determined to be a mix between Asian and Euro-American based on cranial morphology.

Skeletal Pathology

No pathological conditions were observed on the recovered remains.

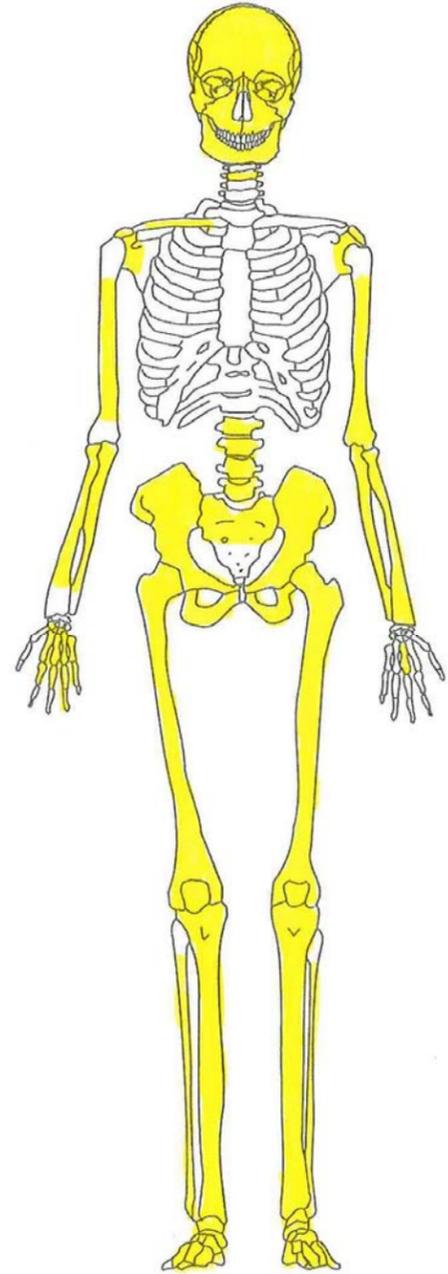
Dental Pathology

Minor to moderate dental wear was observed on the teeth recovered. A carious lesion was observed on the occlusal surface of the right mandibular third molar. Hypoplasia in the form of horizontal linear grooves was observed 3.67 mm and 6.8 mm from the CEJ on the right maxillary canine; 5.65 mm from the CEJ on the right maxillary second incisor; 3.7 mm and 7.83 mm from the CEJ on the right maxillary first incisor; 5.07 mm and 8.46 mm from the CEJ on the left maxillary first incisor; 4.3 mm from the CEJ on the left maxillary second incisor; 5.76 mm and 8.23 mm left maxillary canine; 4.23 mm, 5.86 mm and 7.99 mm from the CEJ on the left mandibular canine; 6.58 mm left mandibular second incisor; 5.64 mm left mandibular first incisor; 5.22 mm from the CEJ on the right mandibular first incisor; 6.2 mm from the CEJ on the right mandibular second incisor; and 4.27 mm and 7.97 mm from the CEJ on the right mandibular canine.

Osteological Summary for 171C

The individual is represented by a relatively complete skeleton and determined to be a middle adult male of mixed Asian and Euroamerican ancestry with carious lesions, hypoplasias and minor to moderate dental wear. The height of the individual was determined to be 5 feet and 8.4 inches (173.77 cm).

171C
 Sex: Male
 Age: Middle to Old Adult
 Ancestry: Mixed
 Height: 5' 8.4" (173.77 cm)
 Skeletal Pathology: none observed
 Dental Pathology: Carious Lesions, Hypoplasias



171C Skeletal Elements Represented												
Element Name	Axial MNE	Left MNE	Right MNE	Indet. MNE	Element Name	Left MNE	Right MNE	Indet. MNE	Element Name	Left MNE	Right MNE	Indet. MNE
Skull					Teeth				capitate		1	
frontal	1				upper I1	1	1		hamate			
parietal		1	1		upper I2	1	1		Metacarpals	1		4
occipital	1				upper C	1	1		Phalanges			
temporal		1	1		upper PM1	1	1		proximal			4
sphenoid	1				upper PM2	1	1		middle			1
zygomatic		1	1		upper M1	1	1		distal			
maxilla		1	1		upper M2	1	1		Lower Limb			
palatine					upper M3	1	1		os coxae	1	1	
nasal		1	1		lower I1	1	1		femur	1	1	
ethmoid					lower I2	1	1		tibia	1	1	
lacrimial					lower C	1	1		fibula	1	1	
vomer					lower PM1	1	1		patella	1	1	
mandible	1				lower PM2	1	1		Ankle			
hyoid					lower M1	1	1		talus	1	1	
Vertebrae					lower M2	1	1		calcaneus	1	1	
cervical					lower M3	1	1		navicular	1	1	
c1					Upper Limb				medial cun.	1	1	
c2	1				clavicle		1		interm. cun.	1	1	
c3-7					scapula	1	1		lat.cuneiform	1	1	
thoracic					humerus	1	1		cuboid	1	1	
t1-t12	3				radius	1	1		Metatarsals	5	5	
lumbar					ulna	1	1		Phalanges			
l1-5	4				Wrist				proximal	1	1	
sacral					scaphoid				middle	2	2	
s1					lunate				distal			
s2-5	2				triquetrum							
coccyx					pisiform							
Sternum					trapezium							
Ribs					trapezoid							

Figure 3.125. Skeletal Summary 171C

RECOVERY 172C

Mortuary Attributes

Burial Orientation

The burial was oriented with the head to the northwest and the feet to the southeast.

Coffin Shape and Size

The remnants of the coffin and/or distinct outline of differently colored soil indicated that the coffin was rectangular in shape. It was 72 inches (182.88 cm) long and 19 inches (48.26 cm) wide.

Hardware

Three ferrous, slotted screws were recovered.

Cultural Attributes

Clothing

Twenty-six fragments of seven safety pins were recovered.

Other Personal Artifacts

No other personal artifacts were recovered.

Other Inclusions or Offerings

One Chinese Wen and one Chinese porcelain fragment of a celadon dish were recovered.

Relevant Field Notes

The recovery was found in an east-west alignment perpendicular to other recoveries in the area.

Summary and Estimated Date of Burial

This burial has been determined to be Chinese based on the Chinese wen and Chinese ceramic recovered.

Slotted screws were used on coffins between the 1850s and the 1900s, while the interment dates of the cemetery were between 1879 and 1922. The estimated date of burial is between 1879 and 1910.

Osteological Attributes

Inventory and Preservation

This individual is represented by a complete skull with dentition and 95% of the post-cranial skeleton. The bone is in good condition (Figure 3.126).

Age

The age of the individual was determined to be a young to middle adult based on the closure of the external cranial vault sutures (27-45 years).

Sex

The sex of the individual was determined to be female based on the greater sciatic notches of the os coxae.

Stature

Could not be determined due to missing elements.

Ancestry

The ancestry of the individual was determined to be Euro-American based on the nasal morphology.

Skeletal Pathology

The individual exhibited periosteal bone formation on the inferior surface of the sternal end of the right clavicle.

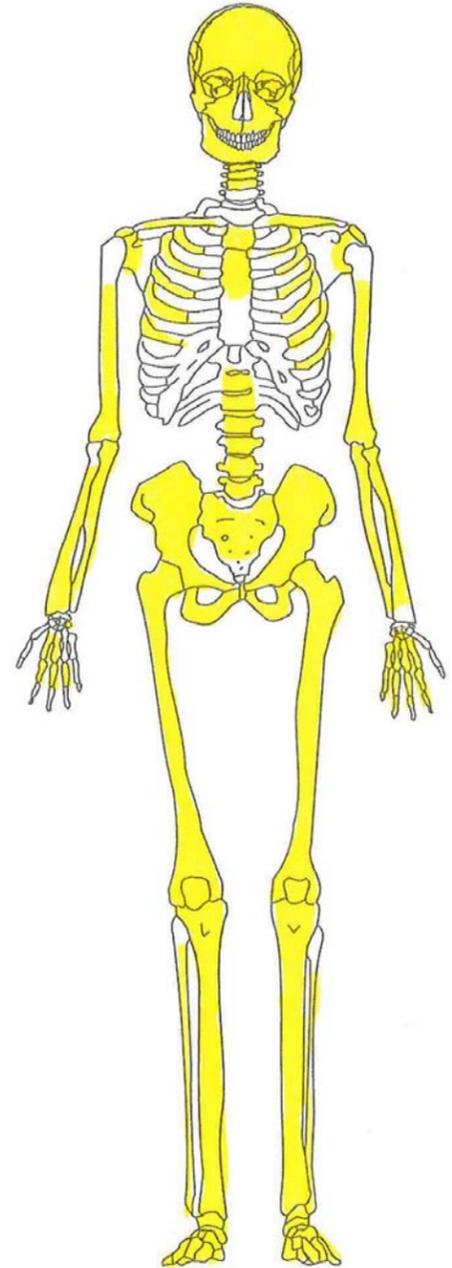
Dental Pathology

Minor wear was observed on the teeth recovered. The right maxillary first premolar, left maxillary second premolar, the left and right maxillary first molars, the left maxillary third molar and the left mandibular second premolar were lost antemortem. Carious lesions were observed on the distal interproximal surface of the right maxillary second molar and the left mandibular third molar and on the cervical regions of the right maxillary third molar and the left mandibular second molar. Hypoplasia in the form of linear horizontal grooves was observed on the left mandibular canine 3.10mm and 4.85mm from CEJ.

Osteological Summary for 172C

This individual is represented by a relatively complete skeleton and determined to be young to middle adult female of Euro-American ancestry with periosteal bone formation on the right clavicle, carious lesions, hypoplasias, antemortem tooth loss and minor dental wear.

172C
 Sex: Female
 Age: Young to Middle Adult
 Ancestry: Euro-American
 Height: indeterminate
 Skeletal Pathology: Periosteal Bone Formation
 Dental Pathology: Carious Lesions, Hypoplasias



172C Skeletal Elements Represented												
Element Name	Axial MNE	Left MNE	Right MNE	Indet. MNE	Element Name	Left MNE	Right MNE	Indet. MNE	Element Name	Left MNE	Right MNE	Indet. MNE
Skull					Teeth				capitate	1		
frontal	1				upper I1	1	1		hamate			
parietal		1	1		upper I2	1	1		Metacarpals	4	2	
occipital	1				upper C	1	1		Phalanges			
temporal		1	1		upper PM1	1			proximal			7
sphenoid	1				upper PM2		1		middle			3
zygomatic		1	1		upper M1				distal			3
maxilla		1	1		upper M2	1	1		Lower Limb			
palatine		1	1		upper M3		1		os coxae	1	1	
nasal		1	1		lower I1				femur	1	1	
ethmoid	1				lower I2	1	1		tibia	1	1	
lacrimial		1	1		lower C	1	1		fibula	1	1	
vomer	1				lower PM1	1	1		patella	1	1	
mandible	1				lower PM2	1			Ankle			
hyoid					lower M1				talus	1	1	
Vertebrae					lower M2	1	1		calcaneus	1	1	
cervical					lower M3	1			navicular	1		
c1	1				Upper Limb				medial cun.	1	1	
c2	1				clavicle	1	1		interm. cun.	1		
c3-7	1				scapula	1	1		lat.cuneiform	1		
thoracic					humerus	1	1		cuboid			1
t1-t12	11				radius	1	1		Metatarsals	5	4	
lumbar					ulna	1	1		Phalanges			
l1-5	5				Wrist				proximal			
sacral					scaphoid	1			middle			
s1					lunate	1			distal			
s2-5	3				triquetrum							
coccyx					pisiform							
Sternum	1				trapezium							
Ribs		6	5		trapezoid	1						

Figure 3.126. Skeletal Summary 172C

RECOVERY 173C

Mortuary Attributes

Burial Orientation

The burial was oriented with the head to the southwest and the feet to the northeast.

Coffin Shape and Size

The remnants of the coffin and/or distinct outline of differently colored soil indicated that the coffin was hexagonal in shape. It was 64 inches (162.56 cm) long, 18 inches (45.72 cm) at its maximum width and 8 inches (20.32 cm) at its minimum width.

Hardware

One thumbscrew and two escutcheons were recovered, as well as five fragments of three swing bail handles. The handle lugs have “All-Seeing Eyes” and the initials “IOOF” on them; both associated with the Independent Order of Odd Fellows. Stamped tin coffin studs, fabric and five fragments of coffin wood with remnants of red paint were also recovered.

Cultural Attributes

Clothing

One Chinese-style ball button was noted in situ at the mid-chest area but not collected to its being highly fragmented.

Other Personal Artifacts

Multiple fragments of a leather and non-ferrous metal wallet were recovered from the left upper chest area.

Other Inclusions or Offerings

Three Seated Liberty dimes were recovered from the wallet, minted in 1875, 1876 and 1853. Three fragments of a screw attached to a flat disc were also recovered

Relevant Field Notes

The recovery was found in the excavation margin of a new storm drain trench. The feet had been removed by old grading activities for the extant pipe. Standing water in the trench obscured the recovery and made extraction very difficult.

Summary and Estimated Date of Burial

This burial was classified as Chinese based on the Chinese ball button and fragments of red coffin wood. Association of the deceased woman with the Independent Order of Odd Fellows is indicated but may be spurious.

Swing bail handles were used between the 1850s and the 1910s, while the interment dates of the cemetery were between 1879 and 1922. The estimated date of burial is between 1879 and 1920.

Osteological Attributes

Inventory and Preservation

This individual is represented by a fragmented skull, dentition and approximately 50% of the post-cranial skeleton (Figure 3.127). The cranium and the mandible were very fragmented and the epiphyses of the long bones were disarticulated from the diaphysis.

Age

The age of the individual was determined to be an adult based on the complete epiphyseal union of the humeral and femoral heads (>22 years).

Sex

The sex of the individual was determined to be female based on the mastoid processes, the vertical diameters of the right femoral head (42.16 mm) and left humeral head (40.98 mm).

Stature

Could not be determined due to missing elements.

Ancestry

Could not be determined due to missing elements.

Skeletal Pathology

No pathological conditions were observed on the recovered remains.

Dental Pathology

Hypoplasias were observed on the mandibular canines in the form of linear horizontal grooves. The left mandibular canine exhibited hypoplasia 2.09 mm, 3.61 mm and 7.40 mm from the CEJ and the right mandibular canine exhibited grooves 2.60 mm, 3.05 mm, 4.76 mm and 5.86 mm from CEJ.

Osteological Summary for 173C

This individual is represented by a fragmented skull with dentition and 50% of the post-cranial skeleton. The individual was determined to be an adult female with hypoplasias on the mandibular canines.

RECOVERY 174C

Mortuary Attributes

Burial Orientation

The burial was oriented with the head to the southwest and the feet to the northeast.

Coffin Shape and Size

The burial was left in situ thus no attempt was made to determine shape and size.

Hardware

One swing bail handle was recovered. The handle lugs have “All-Seeing Eyes” and the initials “IOOF” on them; both associated with the Independent Order of Odd Fellows.

Cultural Attributes

Clothing

No clothing-related artifacts were recovered.

Other Personal Artifacts

No other personal artifacts were recovered.

Other Inclusions or Offerings

No other inclusions or offerings were recovered

Relevant Field Notes

The recovery was found in a vertical face along the excavation margin in a storm drain trench. The fragments that had been removed by grading activities were recovered but the burial was left in place as no further grading was planned.

Summary and Estimated Date of Burial

Swing bail handles were used between the 1850s and the 1910s, while the interment dates of the cemetery were between 1879 and 1922. The estimated date of burial is between 1879 and 1920.

Osteological Attributes

No bone was observed or recovered.

CREMATED HUMAN REMAINS

Two specimens of cremated human remains were recovered during the project. Both were recovered from Area C (Figure 3.4).

CR1

The first instance was a mass of ashes with unidentifiable bone fragments shallowly buried under the grass.

CR2

The second occurrence of cremated human remains were contained in a stoneware 22 cm diameter cylinder pot approximately 20 cm in height. The bottom of the pot yields an impressed makers mark that reads PEORIA POTTERY. The company was producing ceramics from 1873-1904.

Most of the cremated remains were highly fragmented and unidentifiable but not ashes. The remains weighed 1016 grams. They were slightly blackened and cracked but with little calcination and no warping. This indicates they were burned in a low oxygen environment (not out in the open but inside a container). The skeletal remains were dry at the time of being processed as evidenced by the cracking, checking, uniform burning pattern and lack of warping. This would indicate a medical school cadaver rather than cremation of a recently deceased person.

Some large portions of bone were part of the remains. One consisted of the right side of a mandible which exhibited postmortem loss of the mandibular right third molar. The root development of the tooth is unknown because the tooth was not present. The individual was probably an adult over the age of 18 years old. The mandible appeared to be gracile therefore the sex of the individual is possible female.

Summary for CR2

These remains appear to be from an adult female medical school cadaver. They were burned inside a container at moderate temperature. They may result from operation of the crematorium but that is unknown. Since the crematorium did not begin operation until 1922, the use of the stoneware jar to house the cremated remains may represent reuse of an old pot.

ISOLATES

Isolates are defined as artifacts or bones without association to a feature such as a grave. Most isolate artifacts were from Areas B and C and resulted from prior disturbance, mechanical disturbance and from loss of association due to rain events. Most bone isolates were from Areas A and B from the initial excavations at the site. Even though the excavations were only about three feet deep in Area B, very large numbers of bones were recovered. These have been documented as consisting mostly amputated limbs and other types of medical waste buried without containers en mass. A portion of at least one burial was dislocated during those initial excavations in Area A near the boundary of Area B. It was discovered during the review phase and was cataloged as an isolate burial.

ISOLATED ARTIFACTS

A total of 1096 isolates were recovered from the cemetery. Most of the artifacts were from the mortuary category, with the domestic and personal categories the second and third most numerous, respectively (Table 3.8). Under these categories, ceramic artifacts occurred most often, with glass and metal artifacts occurring second and third most often, respectively (Table 3.9). Forty-eight of these isolates were determined to be intrusive or not associated with the cemetery. The following tables include intrusive artifacts, which are discussed in detail below.

Table 3.8. Summary of Isolate Artifacts recovered by Category

Category	A	B	C	E	N/P	Grand Total
Activities	1	3	27			31
Domestic		77	220	1		298
Indefinite Use	1	61	73	1	1	137
Industrial			1			1
Mortuary	4	221	128	13	24	390
Personal		32	132	4	1	169
Structural	3	15	13		2	33
Undefined Use		21	16			37
Grand Total	9	430	610	19	28	1096

Table 3.9. Summary of Isolate Artifacts recovered by Material

Material	A	B	C	E	N/P	Grand Total
Bone	1					1
Ceramic	4	105	247	2	4	362
Ceramic, metal		1				1
Fabric		1	1			2
Fiber		2				2
Flora		1				1
Glass		130	167	4		301
Glass, metal		1				1
Leather		1	13			14
Matrix		3				3
Metal		78	96	10	3	187
Metal, ceramic						
Metal, fiber		4				4
Metal, glass			3			3
Metal, plastic			1			1
Metal, wood			13			13
Shell		2	7			9
Stone	3	2	36	3	21	65
Unidentified			3			3
Wood	1	100	23			124
Grand Total	9	431	608	19	28	1095

Ceramic

A total of 313 isolate ceramic artifacts were recovered from the cemetery. They were mostly from the mortuary category but were also from the structural, personal and furnishing categories (Table 3.10).

Most of the ceramics in the domestic category were rice bowls made in China. Of these, the only identifiable pattern was Bamboo. Other domestic Chinese ceramics recovered included a spoon with the Four Seasons pattern, condiment dishes, a stoneware jar, teapot fragments and a tea bowl stand.

Other ceramic artifacts in the domestic category were of Euro-American make. Fragments of terra-cotta flower pots and dishes made from white earthenware and Euro-American porcelain were included. One fragment of a vitreous earthenware dish rim with a brown, transferware pattern was recovered, as well as pieces of a Euro-American utility stoneware storage jar with a large number "2" painted on the side. One vitreous earthenware dish rim and foot ring fragment had a maker's mark reading [ROYAL/STON]E CHINA (on banner)/[MAD]DOCK & CO/[BUR]SLEM

ENGLAND/TRADE MARK (Figure 3.127). This mark was attributed to John Maddock & Sons Ltd., which operated in North Staffordshire, England. This particular piece was manufactured after 1906 (Kowalsky and Kowalsky 1999:262).

Table 3.10. Summary of Isolate Ceramic Artifacts recovered

Subclass (Item)	A	B	C	E	N/P	Grand Total
Bottle, alcohol			30	1		31
Brick	3	5			2	10
Button		10	4			14
Condiment dish		2	1			3
Crock		3	38			41
Cup		1				1
Dish		15	27	1		43
Flower pot		4	1			5
Food storage vessel			1			1
Insulator			1			1
Jar		1	3		1	5
Jar lid			1			1
Marker			9		1	10
Nail knob insulator			2			2
Pot lid			1			1
Rice bowl		12	104			116
Sewer pipe			2			2
Shouldered jar lid			1			1
Spoon			1			1
Tea bowl stand		1				1
Teapot		37	4			41
Teapot lid			1			1
Tile		4	4			8
Vessel	1	10	1			12
Wine bowl			10			10
Grand Total	4	105	247	2	4	362



Figure 3.127. Dish fragment with maker's mark

Also in the isolate ceramic assemblage were artifacts in the personal category, which included liquor bottles. Fragments of a Tiger glaze liquor bottle and stoneware ale bottles manufactured in Great Britain were recovered. Stoneware ale bottles were initially popular because they provided the ultimate in protection of alcohol from light penetration. By 1895 however, they were phased out of American markets due to closure limitations and weight (Lindsey 2006). One base and body fragment had a maker's mark reading H. KENNEDY/BARROWFIELD /12/POTTERY/GL[ASGOW]. The mark was attributed to H. Kennedy, who operated in Barrowfield, Glasgow, Scotland (Odell 2006). Another base fragment had a maker's mark reading GROSVENOR/12/GLASGOW (Figure 3.128). It was manufactured by Grosvenor in Glasgow, Scotland.

**Figure 3.128. Stoneware ale bottle fragment**

The personal category also included eleven ceramic buttons. The buttons were manufactured through the Prosser process, patented by Richard Prosser in 1849 (IMACS 1992). The process included firing clays at high temperatures, producing highly vitrified buttons that were often mistaken for glass but are identifiable by the orange-peel surfaces on the backs. The Prosser process made buttons very affordable and were produced up until approximately 1910.

Ceramic structural materials were also recovered. Artifacts such as the insulators, tile and sewer pipe were considered intrusive and are discussed below. Nine bricks were recovered. One brick was stamped L.A...., possibly manufactured by the Los Angeles Pressed Brick Co. between 1887 and 1926 (Gurcke 1987:258). Two of the bricks were stamped PCP/EXCELSIOR, attributed to Pacific Clay Products, which operated in California between 1921 and 1942 (Gurcke 1987:278). Two bricks were also associated with Pacific Clay Products, stamped PCP/ACORN. Another brick was stamped GMB with three stars below; this was associated with Gladding McBean & Co., which operated in California between 1875 and 1962 (Gurcke 1987:194). The last brick was stamped LAPB and associated with the Los Angeles Pressed Brick Co., which operated in Los Angeles, CA between 1887 and 1926.

Burial bricks made up the remainder of the ceramic isolate artifacts recovered. These markers are discussed in a separate section dedicated to Chinese artifacts.

Glass

A total of 184 isolate glass artifacts were recovered from the cemetery. They were mostly from the personal category but were also from the domestic, mortuary and indefinite use categories (Table 3.11).

Table 3.11. Summary of isolate glass artifacts recovered

Subclass (Item)	A	B	C	E	Grand Total
Bottle		39	55	1	95
Bottle, alcohol		17	59	3	79
Bottle, beverage			27		27
Bottle, pharmaceutical			1		1
Bottle, soda			1		1
Chinese vial, pharmaceutical			1		1
Coffin viewing window		71	10		81
Jar		1	1		2
Jar stopper			1		1
Lid liner			2		2
Marble		1	3		4
Perfume bottle			2		2
Pickle jar			2		2
Plate glass		1	1		2
Toiletry jar			1		1
Grand Total	0	130	167	4	301

Most of the glass in the personal category consisted of alcohol bottles. Many alcohol bottles were determined to be intrusive and are discussed below. Of the bottles not labeled intrusive, the colors ranged from shades of olive-green to aqua to sun-colored amethyst. A few fragments of black glass pre-dating the 1890s were recovered. Most of the bottles were wine or champagne bottles produced on a turn mold between 1890 and 1915. One clear pumpkin seed flask base produced on a cup-bottom mold between 1890 and the mid-1910s was recovered. Also worth noting is a dark olive-green, export-style beer bottle produced on a turn mold with a tooled, mineral-style finish, produced between 1890 and 1915.

Other glass artifacts in the personal category were in the grooming and health class. A Chinese medicine vial was recovered and is discussed in the Chinese artifact section. A sun-colored amethyst pharmaceutical bottle with a Hopkin's square base was recovered. This bottle was produced on a cup-bottom mold with a tooled, prescription-style finish between 1905 and the 1910s. A clear perfume bottle produced on a cup-bottom mold with a tooled, prescription-style finish was recovered. This bottle was embossed LUNDBORG/PARFUMEUR and had its tapered, ground shank stopper with a solid, round finial intact. It was manufactured between 1890 and the 1910s (Figure 3.129).



Figure 3.129. Perfume bottle

Four marbles of different colors and styles were recovered. A toiletry jar was also recovered, determined to be intrusive and is discussed below. All of the glass artifacts in the domestic category were determined to be intrusive and are discussed below.

All the glass artifacts in the mortuary category consisted of plate glass that was probably used as coffin viewing glass windows. These were commonly cut from ordinary windowpane stock and are discussed in further detail in the coffin hardware analysis.

The remainder of the isolate glass artifacts were in the indefinite use category, which means that they were items with more than one potential original use. These were all bottles for which the original contents could not be determined. Many of them were shades of olive green that may have originally been alcohol bottles. One sun-colored amethyst bottle fragment with a tooled, prescription-style finish was recovered, as well as an amber body fragment with a Handy-style base profile and embossed leaves on the side. Also recovered were an aqua bottle with a packer-style finish, produced between 1885 and the 1910s and a dark olive-green bottle with an applied mineral-style finish, produced between 1865 and the late 1880s. Other bottles of indefinite use were determined to be intrusive and are discussed below.

Metal

A total of 117 isolate metal artifacts were recovered from the cemetery. They were mostly from the mortuary category but were also from the activities, domestic, indefinite use, personal and structural categories (Table 3.12).

Table 3.12. Summary of isolate metal artifacts recovered

Subclass (Item)	A	B	C	E	N/P	Grand Total
Ball button			3		1	4
Bolt		1				1
Bullet			1			1
Button		1	10			11
Can			1			1
Can, alcohol			2			2
Cartridge case		1				1
Case			2			2
Chinese Wen		2	5			7
Coffin decoration		1	1			2
Coffin hinge		1				1
Coffin ornament			3			3
Coffin plaque		6				6
Cotter pin and ring			1			1
Decorative coffin lug		2	1			3
Decorative coffin lug and coffin ornament			1			1
Decorative coffin stud			1			1
Escutcheon		2	2	5		9
Handle			1			1
Hardware metal artifact		10	1			11
Jefferson Head nickel			1			1
Metal disc			1			1
Nail		2				2
Pocket knife			3			3
Seated Liberty dime		1				1
Short bar coffin handle			4			4
Skeleton key			2			2
Stove bolt and nut		1				1
Swing bail coffin handle		18	33	4	2	57
Teaspoon			1			1
Thumbscrew		2	3			5
Thumbscrew and escutcheon		14	5	1		20
Unidentified		13	6			19
Washington Head quarter dollar			1			1
Grand Total	0	78	96	10	3	187

Most of the artifacts in the mortuary category were swing bail coffin handles. The other metal mortuary artifacts consisted of short bar coffin handles, coffin decorations, lugs and ornaments,

decorative studs, thumbscrews and escutcheons. These artifacts are discussed in detail in the coffin hardware analysis.

Metal artifacts from the activities category included Asian and US coins. The US coins were modern and are discussed below. Also recovered was a .33 caliber bullet, a pocket knife and two skeleton keys.

Metal artifacts from the domestic category included a large can with a double seam side seam and a teaspoon. Several artifacts were placed in the indefinite use category because they could have had more than one potential original use. These included a cotter pin and ring and various other hardware metal artifacts.

In the personal category was a modern beer can that is discussed below. Also included were three Chinese-style buttons and a brass, four-hole, inserted four-way self shank with the mark D. VAUGHAN/DUBLIN ...IGSTOWN. In the structural category was a ferrous handle that could have had a use as a handle for a burial case and two cut nails.

Miscellaneous

Artifacts of mixed materials or materials not described above include two jade bangle-style bracelets, a fragment of a fabric garment, braided string from which coffin ornaments hung from decorative lugs, a peach pit, a clear glass bottle fragment with a metal screw cap, a leather hat, fragments of leather shoes, coffin wood, a harmonica composed of metal and wood, sea shell fragments, threaded beads of unidentified material and several unidentified objects (Table 3.13). Also recovered were multiple stone grave markers made of concrete or marble. Grave markers are discussed in detail in another section.

Table 3.13. Summary of miscellaneous isolate artifacts recovered

Subclass (Item)	A	B	C	E	N/P	Grand Total
Bangle-style bracelet		2				2
Battery			1			1
Bottle		1				1
Braided string		2				2
Cap			3			3
Coffin ornament		4				4
Coffin wood	1	100	22			123
Concrete slab			2			2
Chicken	1					1
Cow			1			1
Garment fragment		1				1
Hardware metal artifact			1			1
Harmonica			13			13
Hat			2			2
Marker	3		33	3	21	60
Nail knob insulator, nail		1				1

Subclass (Item)	A	B	C	E	N/P	Grand Total
Pit		1				1
Shell		2	7			9
Shoe			11			11
Stove						
Threaded bead			0			0
Unidentified		4	3			7
Grand Total	5	118	99	3	21	246

Radiocarbon Results

Two human femurs (amputated limbs) from Area A were submitted to Beta-Analytic for radiocarbon dating on July 12, 2005. The results indicate the bones are approximately 100 years old or about 1905. However, the error on dates this young is very high.

A sample of wood from the B74 coffin near the retaining wall was submitted to Beta-Analytic on July 12, 2005. The wood was dated to 320 years before present. This reflects the age of the tree used to make the coffin, not the date of the coffin.

INTRUSIVE ARTIFACTS

Forty-six isolate artifacts recovered from the cemetery were determined to be intrusive, based on the date ranges of the artifacts or the complete disassociation with other cemetery artifacts. From approximately 1920s to 1940s a caretaker’s house was present in Area B. Many of the isolate artifacts date to this time span and were recovered from the area in which the house once stood (Table 3.14).

Table 3.14. Summary of intrusive material

	Total
Material	
Ceramic	9
Glass	30
Metal	6
Other	3
Unidentified	1
Grand Total	46

Glass

Most of the intrusive artifacts recovered were glass artifacts from the indefinite use category. The other artifacts were from the domestic and personal categories.

All of the glass artifacts in the indefinite use category included bottles for which the original contents could not be determined. One clear, narrow-mouth bottle with an external, continuous thread finish was produced on an automatic bottle machine post-1920s. Another clear bottle

fragment was produced on an automatic bottle machine and had an eight-pointed star embossed on the base and the mark, CW111 embossed on the side. This is possibly a milk bottle produced in the 1940s. A light aqua bottle fragment was recovered with an applied color label reading [O]Z...(1PT.). This bottle was produced on an automatic bottle machine after 1934. A 7-Up green bottle fragment recovered was produced on an Owens automatic bottle machine between 1905 and the 1930s. Manufacturers could be determined for two bottles. One small, amber bottle with a wide mouth, external, continuous threaded finish and a round base profile was recovered. This bottle was produced on an automatic bottle machine and was embossed 650 12/3 A/6 50/9 (anchor imposed over H) on the base. It is attributed to the Anchor Hocking Corp. which operated in Salem, NJ between 1937 and 1977 (Toulouse 1971:46-49). A clear bottle fragment produced on an automatic bottle machine with the embossed letters and numbers LM/17 was recovered. It is attributed to the Latchford-Marble Glass Company, which operated in Los Angeles, CA from 1939 to 1957 (Toulouse 1971:332-333).

Several intrusive glass artifacts were placed in the domestic category. Multiple milk bottle fragments were recovered. One fragment had a hobnail pattern on the neck and another was embossed with the lettering SC D.../ONE QUART//CW1. The milk bottle fragments were produced on an automatic bottle machine between the 1910s and the 1940s. A clear soda bottle, produced on an automatic bottle machine with a crown-style finish was recovered. This bottle featured the mark 10 FL. OZ./DISPOSE OF PROPERLY//10 FL. OZ./NO REFILL//416-10A/A7 Ball 3 75 and is attributed to Ball Brothers Manufacturing Co., which operated in Muncie, IN (Toulouse 1971:66-68). This particular bottle was produced after 1940. A 7-Up green soda or mineral water bottle produced on an automatic bottle machine with a crown-style finish had the mark 27 S2 and was produced post-1920s. Another soda or mineral water bottle with clear glass was recovered. It too was manufactured on an automatic bottle machine with a small mouth, external, continuous thread. The bottle was embossed 2 3079 LA-I//16 and was produced post-1920s. A contemporaneous pickle jar was recovered. This aqua jar was in the cathedral style and was produced between 1860 and 1880 (Figure 3.130). Finally, a white milkglass fruit jar lid liner was recovered. Milkglass lid liners were invented by Lewis R. Boyd in order to keep the zinc cap from coming into contact with the food and were used post-1869 (Rosenberg and Kvietok 1981:43).



Figure 3.130. Cathedral-style pickle jar fragment

Five intrusive liquor bottles or liquor bottle fragments and one white milkglass jar fragment were recovered and were placed in the personal category. One clear glass bottle manufactured on an automatic bottle machine with a narrow, continuous threaded finish had a man's profile in a circle embossed on the front. Embossed lettering read FEDERAL [LAW] FORBIDS S[ALE OR REU]SE OF TH[IS BOTTLE]. This phrase is indicative of liquor bottles and was used after Prohibition ended in 1935 and discontinued in 1964. A 7-Up green wine bottle fragment manufactured on an automatic bottle machine was embossed ...QUAR[T]/WINE/1-43 and dates to post-1920s. A light aqua liquor bottle recovered was manufactured on an automatic bottle machine with a small mouth external, continuous threaded finish and a slender handy base profile. It was embossed 200 ML (6.8 FL. OZ.)//200ML (6.8 FL. OZ.)//12 8/LIQUOR BOTTLE/... and dates to post-1964. Two 7-Up green wine bottles recovered were manufactured by the Madera Glass Company in Madera, CA between 1971 and the 1990s (Whitten 2005). These were both manufactured on automatic bottle machines with small mouth external, continuous threaded finishes that took metal caps. Both were Bordeaux-style bottles (Figure 8.131). The first bottle was embossed 375 ML (12.7 FL. OZ.)//375 ML (12.7 FL. OZ.)//3701/76 13/MG, the second 4/5 PINT 4/5 PINT//4/5 PINT 4/5 PINT//A3 MG 76/1010. Finally, the white milkglass toiletry jar fragment was embossed JJ/15 and is attributed to the Johnson and Johnson Company, produced between the 1920s and the mid twentieth-century.



Figure 3.131. Modern wine bottles

Ceramic

Nine intrusive ceramic artifacts were recovered. Most of these were from the structural category and one was from the personal category.

Four insulators, three of which were of the nail knob variety, were recovered. One of the nail knob insulators was embossed THOMAS and is attributed to the Thomas Company, which operated between 1884 and 1957 (Author Unknown 2006a). The non-nail knob insulator was of the single skirt, threaded pinhole variety. Decorative ceramic tile was also recovered in colors indicative of the 1930s and 1940s (Figure 3.132). The tile can be attributed to the American Encaustic Tile Company, which operated in Vernon and Hermosa Beach, CA, after 1875 (Author Unknown 2005).

The only intrusive ceramic in the personal category was a contemporaneous pot lid. Made of white earthenware, the top has a green, blue and black transferware design with remnants of gilding around the edge (Figure 3.133). The lettering read H.P. WAKELEE DRUGGIST/COLD CREAM/SAN FRANCISCO. Ceramic pots were manufactured between the mid nineteenth and early twentieth-centuries with highly-decorative lids. They held products such as toothpaste, ointment and cold cream and were generally made to give the public the illusion that more product was inside (Author Unknown 2006b).

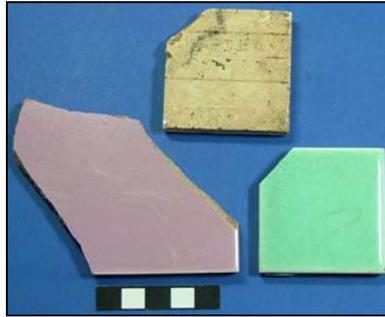


Figure 3.132. Decorative tile

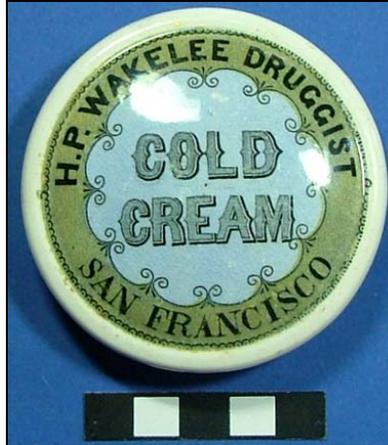


Figure 3.133. Cold cream pot lid

Metal

Five intrusive metal artifacts were recovered. A cylindrical hardware fitting from the indefinite use category was recovered. Two artifacts were placed in the activities category, a 1982 Washington Head quarter dollar and a 1987 Jefferson Head nickel. A modern aluminum beer can, placed in the personal category, was identified, catalogued and discarded. Finally, in the domestic category, multiple pieces of a full-size, gas burning stove were recovered. It was made largely of ferrous

metal, but the knobs and door insert were porcelain. The stove featured cabriole legs and a name plaque which read PERFECT STOVE MFG. CO. No information on the manufacturer could be obtained.

Miscellaneous

A cylindrical battery part was recovered and placed in the industrial category. It was composed of carbon, graphite or lead. Two concrete slabs, in the structural category, were identified, counted, catalogued and discarded. One indefinite use hardware metal artifact composed of metal and plastic was recovered.

BONE ISOLATES

Bone isolates from the initial discoveries and review phase of work were mostly from Areas A (the half nearest B) and B. Initial excavations in Area B were only three feet but very large numbers of bones were recovered (Table 3.15). These have been documented as consisting mostly of amputated limbs and other types of medical waste buried shallowly without containers. A portion of at least one burial was dislocated during those initial excavations in Area A near the boundary of Area B.

Bone isolates were also recovered from the data recovery excavations phase of work (Table 3.15). These were mostly from Area B and are associated with prior disturbance from a caretaker's house that was formerly present in this area. The remainder were displaced by a combination of prior disturbance, mechanical disturbance and rain events during excavation.

Table 3.15. Count of Bone Isolates by Area and Phase

	Area A	Area A/B	Area B	Area C	Area E	TOTAL
Monitoring/Review Phase	109		485	27	7	621
Excavation Phase	2	12	180	41	70	235
Total	111	12	665	68	77	856

Almost 45% of the bone isolate count consists of unidentifiable fragments (Table 3.16). The next most abundant element groups are limb bones, mostly from Area B.

Table 3.16. Bone Isolates Element Groups by Area

Element Group	Area A	Area A/B	Area B	Area C	Area E	TOTAL
skull	9	1	47	13	7	70
teeth	9		35		4	44
vertebrae/ribs	3	1	40	4	2	48
arm	26	2	57	10	4	95
leg	31	7	104	12	11	154

hands/feet	2		62	3		67
unidentifiable fragments	31	1	320	26	49	378
TOTAL	111	12	665	68	77	856

The minimum number of individuals was calculated for each area (Table 3.17) [excludes isolate burial which is one additional individual]. For Area A, this was based on presence of eight left femurs. For Area A/B, it is two based on the presence of two left femurs and two left tibias. For Area B, it is 18 based on the presence of 18 right femurs. For Area C, it is three based on the presence of three left scapulas and three left femurs. For Area E, it is two based on two right femurs and two right maxillary first molars.

Table 3.17. Bone Isolates Minimum Number of Individuals by Area

	Area A	Area A/B	Area B	Area C	Area E	TOTAL
Minimum No. Individuals	8	2	18	3	2	33

Osteological determinations of sex, ancestry, age and pathology of bone isolates are summarized (Table 3.18) [excluding isolate burial]. A total of 17 isolates are from males and 8 are from females. One isolate has Asian ancestry and three have Euroamerican ancestry. Age could be determined for 22 isolates. Of those 14 are adults, 3 are middle adults, 4 are young adults and 1 is an adolescent. Pathologies were observed on 18 isolates. Ten were skeletal pathologies and eight were dental.

Table 3.18. Bone Isolate Determinations by Area

	Area A	Area A/B	Area B	Area C	Area E	TOTAL
male	4		13			17
female	1		4	3		8
Asian	1					1
Euroamerican	1	1	1			3
adult	4		10			14
middle adult			3			3
young adult			3	1		4
adolescent	1					1
skeletal pathology	5		5	1		10
dental pathology	1		4	1	2	8

OSTEOLOGICAL ATTRIBUTES OF BONE ISOLATES FROM AREA A

Inventory and Preservation

The bone was recovered in good to fair condition, but fragmented. The total count was 111. The minimum number of individuals is eight based on presence of eight left femora.

Two mandibles and one maxilla were recovered with teeth. Bone Isolate 40, a mandible, is associated with the teeth cataloged as Bone Isolates 35, 37, 39 and 54. Bone Isolate 41, a mandible, is associated with teeth cataloged as Bone Isolates 36 and 38. Bone Isolate 78, a maxilla, is associated with teeth cataloged as Bone Isolates 77, 79 and 80.

Sex

Bone Isolate 2 was determined to be male based on the greater sciatic notch of the left ilium. Bone Isolate 4 was determined to be female based on cranial morphology. Bone Isolate 23 was determined to be male based on the vertical diameter of the left humeral head. Bone Isolate 40 was determined to be male based on the morphology of the mandible.

Age

Bone Isolate 5 was determined to be an adult based on the closure of the external cranial vault sutures. Bone Isolate 23 was determined to be an adult based on the complete fusion of the epiphyses of the left humerus. Bone Isolate 40 was determined to be an adult based on dental eruption. Bone Isolate 41 was determined to be an adolescent based on dental development and dental eruption.

Ancestry

Bone Isolate 5 was determined to be Asian based on cranial morphology and the presence of Wormian bones.

Skeletal Pathology

Bone Isolate 14 exhibited healed general periosteal bone formation around the shaft of the left femur. Bone Isolate 57 exhibited a healed complete fracture of the shaft of the tibia with periosteal bone formation. Bone Isolate 58 exhibited healed periosteal bone formation on the posterior proximal shaft of the left tibia. Bone Isolate 64 exhibited healed periosteal bone formation on the posterior proximal shaft of the right tibia.

Dental Pathology

Bone Isolate 36 exhibited a carious lesion on the occlusal surface of the left mandibular first molar.

Bone Isolate 37 exhibited two carious lesions on the labial surface of the left mandibular second molar.

Summary

The minimum number of individuals for area A is eight. There were three males and one female identified. Three were determined to be adults and one was determined to be an adolescent. One was determined to be of Asian ancestry. Four exhibited skeletal pathological conditions and two exhibited dental pathological conditions. [Note: totals in Table 3.15-.18 include Isolate Burial 1 below]

AREA A ISOLATE BURIAL 1

Burial Orientation

Could not be determined.

Coffin Shape and Size

Could not be determined. Sixty-one fragments of coffin wood with remnants of pink-colored paint were recovered.

Hardware

Five swing bail handles, five caplifter or thumbscrews, six escutcheons, one possible coffin nail, thirty-five plate glass fragments of a viewing window and six fragments of one coffin plaque reading A[T RE]ST were recovered.

Clothing

No clothing-related artifacts were recovered.

Other Personal Artifacts

No other personal artifacts were recovered.

Other Inclusions or Offerings

One 1876 Seated Liberty Dime and one .38 caliber, rimfire cartridge case with gunpowder were recovered. The cartridge case was recovered from the hip area of the individual.

Summary and Estimated Date of Burial

Swing bail handles were used between the 1850s and the 1910s, while the interment dates of the cemetery were between 1879 and 1922. The estimated date of burial is between 1879 and 1920.

Inventory and Preservation

This individual is represented by a partial skull and upper and lower limb bones. The bone is in fair condition, but fragmented.

Age

The age of the individual was determined to be an adult based on the complete eruption of the left maxillary third molar (>21 years).

Sex

The sex of the individual was determined to be male based on the vertical diameter of the right humeral head (47.65 mm).

Stature

Could not be determined due to missing elements.

Ancestry

The ancestry of the individual was determined to be Euro-American based on nasal morphology.

Skeletal Pathology

Cribrra orbitalia was observed on the superior orbital surfaces of the frontal bone.

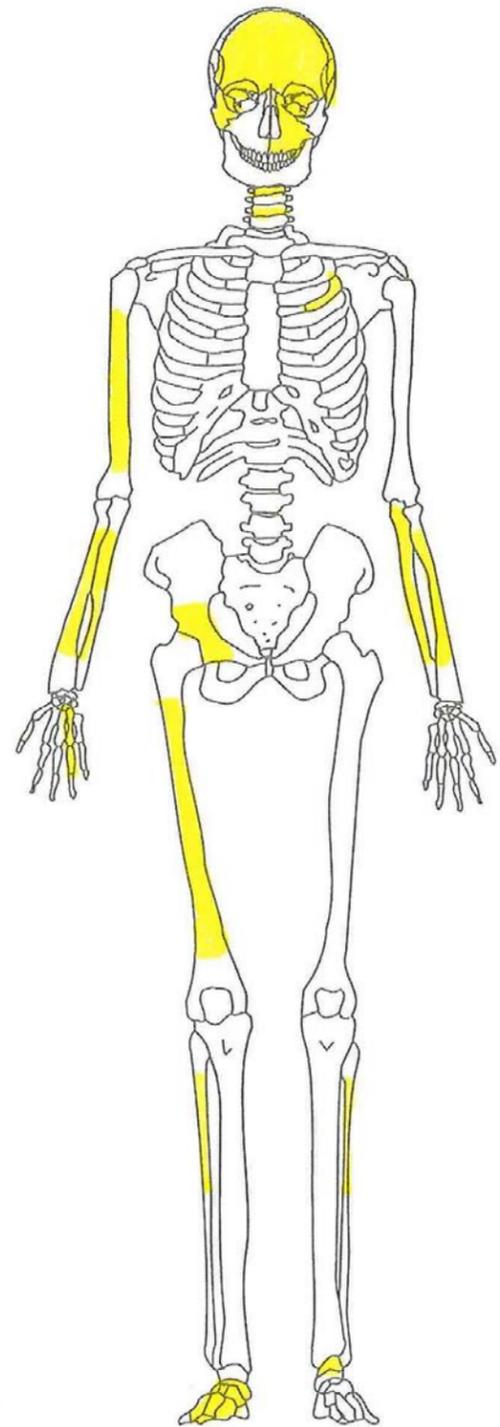
Dental Pathology

No pathological conditions were observed on the recovered remains. Moderate dental wear was observed on the teeth recovered.

Osteological Summary for Isolate Burial from Area A

This individual is represented by a partial skull and upper and lower limb bones. The individual was determined to be an adult male of Euro-American ancestry with cribrra orbitalia and moderate dental wear.

Isolate Burial 1
 Sex: Male
 Age: Adult
 Ancestry: Euroamerican
 Height: Indeterminate
 Skeletal Pathology: Cribra orbitalia
 Dental Pathology: Moderate Wear



1IB Skeletal Elements Represented												
Element Name	Axial MNE	Left MNE	Right MNE	Indet. MNE	Element Name	Left MNE	Right MNE	Indet. MNE	Element Name	Left MNE	Right MNE	Indet. MNE
Skull					Teeth				capitate			
frontal	1				upper I1				hamate			
parietal				1	upper I2				Metacarpals			1
occipital	1				upper C				Phalanges			
temporal		1			upper PM1				proximal			1
sphenoid	1				upper PM2				middle			
zygomatic			1		upper M1				distal			
maxilla		1			upper M2	1			Lower Limb			
palatine					upper M3	1			os coxae		1	
nasal					lower I1				femur		1	
ethmoid					lower I2				tibia			
lacrimial					lower C				fibula	1	1	
vomer					lower PM1				patella			
mandible					lower PM2				Ankle			
hyoid					lower M1				talus	1		
Vertebrae					lower M2				calcaneus			1
cervical					lower M3				navicular		1	
c1	1				Upper Limb				medial cun.			
c2					clavicle				interm. cun.			
c3-7	1				scapula				lat.cuneiform			
thoracic					humerus		1		cuboid			
t1-t12					radius	1	1		Metatarsals		4	
lumbar					ulna	1	1		Phalanges			
l1-5					Wrist				proximal			
sacral					scaphoid				middle			
s1					lunate				distal			
s2-5					triquetrum							
coccyx					pisiform							
Sternum					trapezium		1					
Ribs				1	trapezoid							

Figure 3.134. Skeletal Elements Represented Isolate Burial 1

OSTEOLOGICAL ATTRIBUTES OF BONE ISOLATES FROM AREA A/B

Inventory and Preservation

The minimum number of individuals from area A/B [boundary of Areas A and B] is two based on the presence of two left femora and two left tibiae. The bone was recovered in fair condition, but fragmented. A total of 12 bone isolates were present.

Sex

Sexes could not be determined due to missing elements.

Age

Ages could not be determined due to missing elements.

Ancestry

Bone Isolate 87 was determined to be of Euro-American ancestry based on the morphology of the nasal sill.

Skeletal Pathology

No skeletal pathological conditions were observed.

Dental Pathology

No dentition was recovered.

Osteological Summary for Bone Isolates from Area A/B

The minimum number of individuals for area A/B is two. One was determined to be Euro-American.

OSTEOLOGICAL ATTRIBUTES OF BONE ISOLATES FROM AREA B

Inventory and Preservation

The minimum number of individuals from area B is 18 based on the presence of 18 right femora. The bone was recovered in good to fair condition, but fragmented. A total of 665 bone isolates were present.

Two mandibles were recovered with teeth. The mandible, Bone Isolate 272, is associated with the teeth cataloged as Bone Isolates 265, 266, 267, 268, 269, 270, 286, 292, 293, 294, 295 and 296.

The

Mandible, Bone Isolate 392, is associated with the teeth cataloged as Bone Isolates 404, 405, 407, 408 and 409.

Sex

Bone Isolate 102 was determined to be male based on the pelvic morphology. Bone Isolate 152 was determined to be male based on cranial morphology. Bone Isolate 155 and Bone Isolate 156 were

determined to be male based on the morphology of the femur. Bone Isolate 180 was determined to be female based on the mastoid process of the left temporal. Bone Isolate 230 was determined to be male based on the vertical diameter of the right humeral head. Bone Isolate 272 was determined to be male based on the morphology of the mandible. Bone Isolate 279 was determined to be male based on the greater sciatic notch of the right os coxae. Bone Isolate 299 was determined to be male based on the diameter of the glenoid fossa of the left scapula. Bone Isolate 335 was determined to be male based on the mastoid process of the left temporal. Bone Isolate 359 was determined to be male based on the vertical diameter of the left femoral head. Bone Isolate 426 was determined to be male based on the vertical diameter of the left femoral head. Bone Isolate 431 was determined to be female based on the vertical diameter of the left humeral head. Bone Isolate 457 was determined to be male based on the diameter of the glenoid fossa of the left scapula. Bone Isolate 462 was determined to be female based on the presence of the preauricular sulcus on the right os coxa. Bone Isolate 466 was determined to be male based on the vertical diameter of the left femoral head. Bone Isolate 472 was determined to be female based on the vertical diameter of the left femoral head.

Age

Bone Isolate 96 was determined to be an adult based on the presence of osteoarthritic lipping around the lumbar vertebral body. Bone Isolate 125 was determined to be a young adult based on the appearance of the sternal end of the right rib. Bone Isolate 163 was determined to be a middle adult based on the appearance of the auricular surface of the left os coxa. Bone Isolate 219 was determined to be a middle adult based on the appearance of the sternal end of the left rib. Bone Isolate 233 was determined to be an adult based on dental eruption. Bone Isolate 264 was determined to be an adult based on the complete fusion of the proximal epiphysis of the humerus. Bone Isolate 272 was determined to be an adult based on dental eruption. Bone Isolate 277 was determined to be a middle adult based on the appearance of the auricular surface of the left os coxa. Bone Isolate 278 was determined to be a young adult based on the appearance of the pubic symphysis of the left os coxa. Bone Isolate 279 was determined to be a young adult based on the appearance of the auricular surface of the right os coxa. Bone Isolate 392 was determined to be an adult based on dental eruption. Bone Isolate 396 was determined to be an adult based on the appearance of the pubic symphysis of the left os coxa. Bone Isolate 401 was determined to be an adult based on the complete fusion of the epiphyses of the radius. Bone Isolate 466 was determined to be an adult based on the complete fusion of the head of the left femur. Bone Isolate 468 was determined to be an adult based on the complete fusion of the head of the left femur. Bone Isolate 472 was determined to be an adult based on the complete fusion of the head of the right femur.

Ancestry

Bone Isolate 236 was determined to be of Euro-American ancestry based on nasal morphology.

Skeletal Pathology

Bone Isolate 96 exhibited osteophytic lipping around the lumbar vertebral body. Bone Isolate 229 exhibited cribra orbitalia on the superior eye orbits of the frontal bone. Bone Isolate 323 exhibited periosteal bone formation surrounding the shaft of the tibia. Bone Isolate 374 exhibited periosteal bone formation surrounding the shaft of the rib. Bone Isolate 476 exhibited a healed fracture of the mid-shaft of the right tibia with periosteal bone formation.

Dental Pathology

Bone Isolate 164 exhibited a carious lesion on the occlusal surface of the left maxillary second molar. Bone Isolate 201 exhibited a distal inter-proximal carious lesion on the left maxillary canine.

Bone Isolate 334 exhibited linear horizontal enamel hypoplasia 2.10 mm from the cemento-enamel junction on the right maxillary second premolar. Bone Isolate 451 exhibited linear horizontal enamel hypoplasia 2.80 mm and 1.30 mm from the cemento-enamel junction on the right maxillary second molar.

Osteological Summary for Bone Isolates from Area B

The minimum number of individuals for area B is 18. Thirteen were identified as male and four were identified as female. Ten were determined to be adults, three were determined to be young adults and three were determined to be middle adults. One was identified as Euro-American. Five exhibited skeletal pathological conditions and another four exhibited dental pathological conditions.

OSTEOLOGICAL ATTRIBUTES OF BONE ISOLATES FROM AREA C

Inventory and Preservation

The minimum number of individuals for area C is three based on the presence of three left scapulae and three left femora. The bone was recovered in fair to poor condition. The total count of bone isolates present was 68.

Sex

Bone Isolate 478 was determined to be female based on the diameter of the glenoid fossa of the left scapula. Bone Isolate 504 was determined to be female based on the mastoid process of the left temporal. Bone Isolate 505 was determined to be female based on the mastoid process of the right temporal.

Age

Bone Isolate 481 was determined to be a young adult based on the appearance of the auricular surface of the ilium.

Ancestry

Ancestry could not be determined due to missing elements.

Skeletal Pathology

Bone Isolate 513 exhibited a healed fracture with periosteal bone formation on the vertebral end of the rib shaft.

Dental Pathology

Bone Isolate 529 exhibited antemortem tooth loss of the mandibular teeth.

Osteological Summary for Bone Isolates from Area C

The minimum number of individuals for area C is three. Three were identified as female. One was identified as a young adult. One exhibited a skeletal pathological condition and one exhibited a dental pathological condition.

OSTEOLOGICAL ATTRIBUTES OF BONE ISOLATES FROM AREA E

Inventory and Preservation

The minimum number of individuals for area E is two based on two right femora and two right maxillary first molars. The bone was recovered in fair to poor condition. There were 77 bone isolates present.

Age

Ages could not be determined due to missing elements.

Sex

Sexes could not be determined due to missing elements.

Ancestry

Ancestry could not be determined due to missing elements.

Skeletal Pathology

No skeletal pathological conditions were observed.

Dental Pathology

Bone Isolate 545 exhibited a carious lesion on the occlusal surface of the right maxillary second molar. Bone Isolate 557 exhibited a carious lesion on the mesial inter-proximal surface of the left maxillary second premolar.

Osteological Summary for Bone Isolates from Area E

The minimum number of individuals for area E is two. There were two that exhibited dental pathological conditions.

chapter four history

CEMETERIES OF EARLY LOS ANGELES

The early landscape of cemeteries in Los Angeles shows a typical urban pattern of first cemeteries near the core of the town with later cemeteries in areas not considered ideal for housing or commerce (Figure 4.1). In the late 19th and early 20th centuries, East Los Angeles became home to numerous cemeteries.

Early deaths (1774-1820) in Los Angeles resulted in burial at Mission San Gabriel (Carpenter 1973:9). Mission San Gabriel records show burials at Plaza Church beginning in 1820 before the building was even finished (Carpenter 1973:12). Plaza Church began its own burial register in 1826. Most burials are thought to have been on the south side of the Church. This is recognized as the first cemetery in the City of Los Angeles (Los Angeles Cultural Heritage Board 1964).

A new Catholic cemetery was created as the available space at Plaza Church declined. The original Calvary Cemetery opened in 1844 and operated until filled in 1896 (Carpenter 1973:18). After closing, it deteriorated until the City required that all burials be moved. That work was completed in the 1930s. The cemetery land was used for part of the Pasadena Freeway and to build Cathedral High School. The new Calvary Cemetery opened in East Los Angeles in 1896 and still operates.

The first public City cemetery was Fort Moore Hill (Carpenter 1973:18-22). The cemetery had sections for Protestants, Jews, Masons, Odd Fellows, City Firemen, and in the northwest corner – a Chinese section (the non-public sections [Protestant, Jewish, Masons, Odd Fellows] were privately owned). Blacks and Native Americans were also buried here according to a news report of the time (*Daily Star* January 18, 1871 cited in Carpenter 1973:26-27). In 1885 the City sold the public portion for development without removing the burials (Bell 1930 cited in Carpenter 1973:32-33). Eventually, Los Angeles High School was built on part of the old cemetery. The School District gradually acquired the other parcels and paid for removal of many burials to Rosedale Cemetery.

In 2006, about 80 burials with skeletal remains were discovered during construction for a new performing arts high school on part of the old Fort Moore Hill Cemetery (*ABC News* June 16, 2006). In an echo of the work for this project, preconstruction research indicated no potential for impacts. All remains are scheduled to be reentered at Rosedale Cemetery.

An early Jewish cemetery was Home of Peace in Chavez Ravine (Carpenter 1973:35-36). Eventually, a new site was established in East Los Angeles and over a period of 8 years all the burials were moved to the new location. Two additional Jewish cemeteries adjoin the East Los Angeles location of Home of Peace; Beth Israel and Mt. Zion.

In the late 19th Century, Rosedale Cemetery was established southwest of downtown Los Angeles. This is a private cemetery that continues in operation today. A sampling survey consisting of looking at date of death for the surname Wong indicates the first Chinese were buried in Rosedale around 1918 (Gillson 2003).

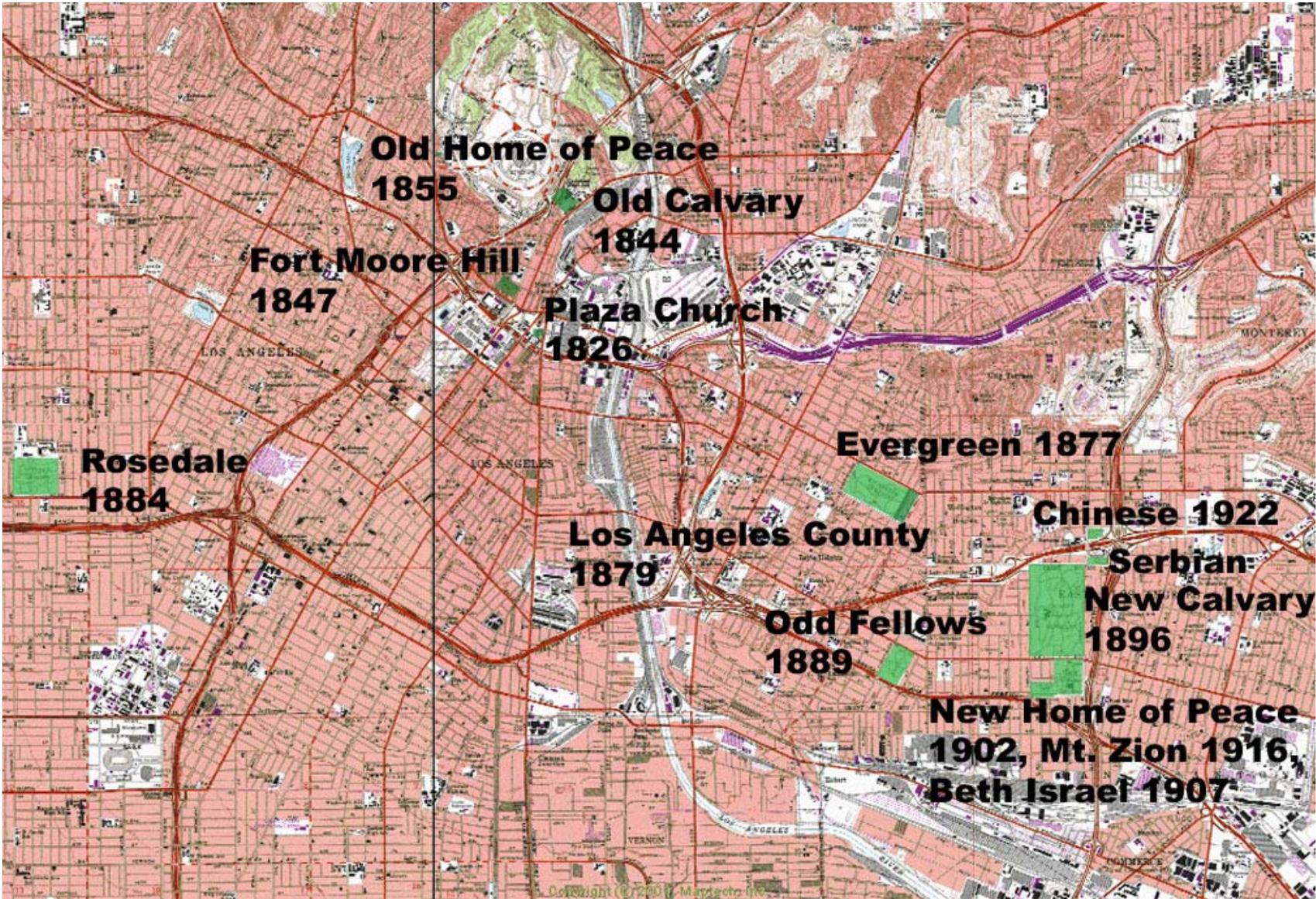


Figure 4.1. Map of Cemeteries of Los Angeles

In 1874 the City of Los Angeles adopted a set of Sanitary Laws, a number of which are relevant to cemeteries. In particular, these specified that a death certificate must be filed with the City Health Officer for every death, that a physician's or coroner's death certificate was required prior to interment and required a permit for disinterment (Desnoyers 1875: 102-103).

In June of 1877 an ordinance passed that prohibited burial within the city limits except in cemeteries authorized by the City Council. Two months later, on August 25th, 1877, the City Council approved a resolution establishing Evergreen Cemetery in East Los Angeles with irrevocable rights (to continue as a cemetery in perpetuity). In the same action, the City accepted 5 acres of Evergreen's property along E. 1st Street at Lorena St. as a City Cemetery to be used for the sole purpose of burying bodies at public expense (Caswell 1878: 459, 468-9). Evergreen is a private cemetery that continues in operation today.

Finally, the Chinese Cemetery in East Los Angeles opened in 1922 concurrent with the cessation of burials at the Historic Los Angeles Cemetery. The Chinese Cemetery is operated by the Chinese Consolidated Benevolent Association of Los Angeles. It also has twin burners and a shrine. In the late 1940s graves cost ten dollars, in addition to yearly charitable contributions of three to five dollars per person for maintenance (Lui 1948).

THE LOS ANGELES CEMETERY

The City accepted 5 acres at 1st Street and Lorena St. as a public cemetery in 1877 (see above). The configuration of this public cemetery is illustrated in the original plan for Evergreen Cemetery as a white triangle at the intersection (Figure 4.2; note that access to the public cemetery is through Evergreen). A problem with the legal description of the land caused a two year delay in transfer of title but the City ended up with twice the space. In 1879 the City accepted the deed for ten acres along Lorena St. from 1st St. to Brooklyn [Cesar Chavez] (Caswell 1878: 459, 468-9). The configuration of these ten acres can be seen to right of the arc of the Evergreen road set off by a tree line (Figure 4.3; EDR 1928).

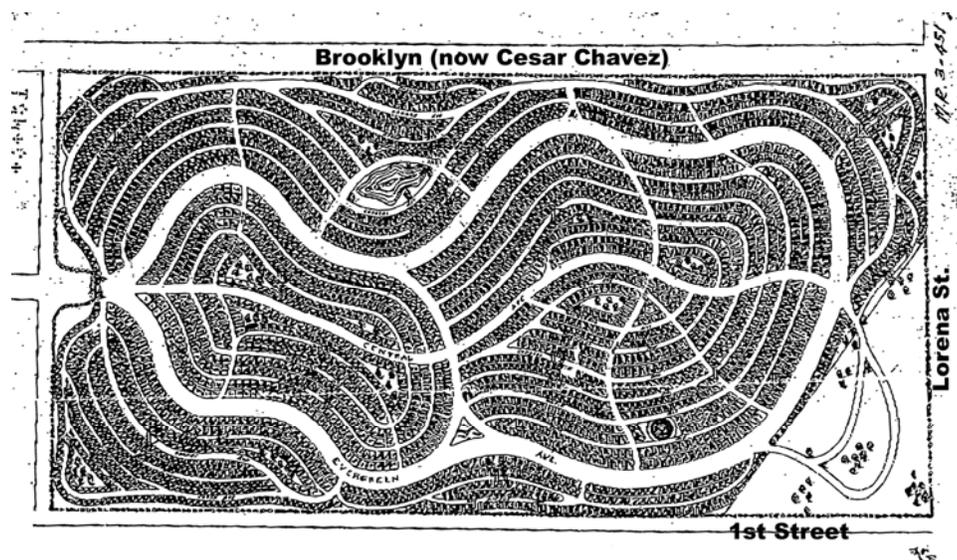
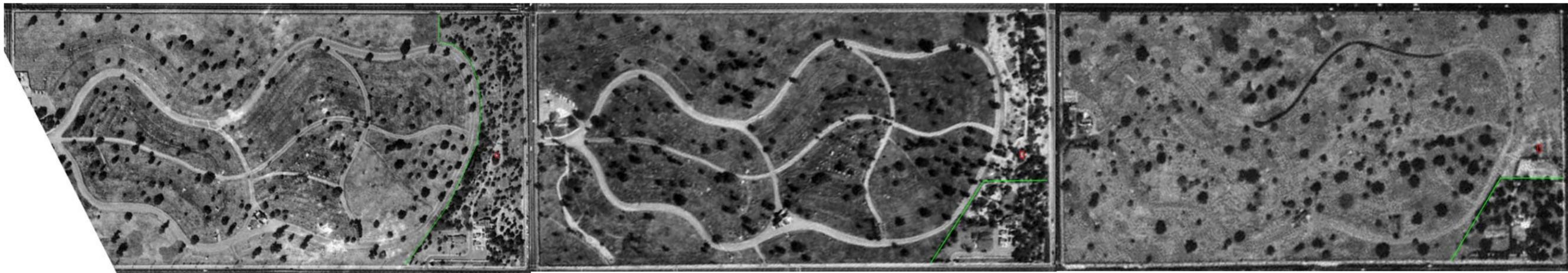
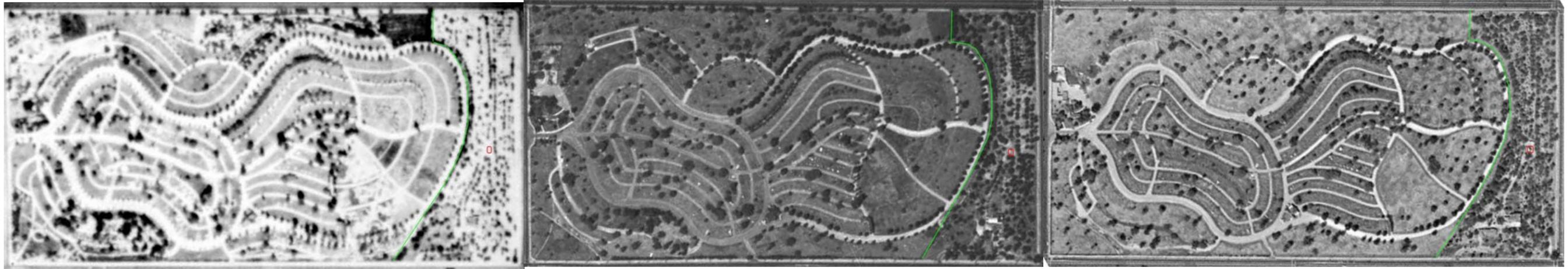
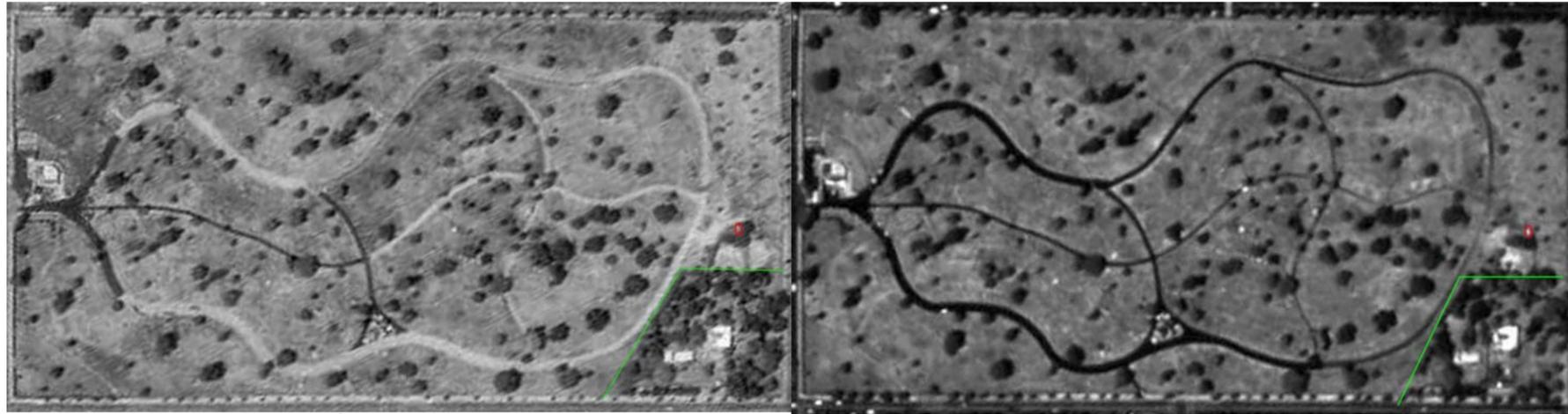


Figure 4.2. 1877 Plat Map for Evergreen and Los Angeles Cemetery





Bottom of each is 1st St.; Right border is Lorena St.

Figure 4.3. Aerials of Evergreen and Los Angeles Cemetery

Key: left to right, top to bottom
1928, 1938, 1949,
1956, 1965, 1989,
1994, 2002
Red rectangle = Chinese Shrine
Green line = Los Angeles Cemetery Boundary

The first documented burials in the cemetery date to 1880 (see Here Lies). The only information available regarding the indigents buried is from the Burial Registers of the cemetery. These have only name and date of death until 1890. The Burial Register from 1890-96 is missing. Thereafter race, cause of death and other information is recorded in the Registers. No Chinese names are recorded before 1896 when the County took over operation of the cemetery.

An undocumented statement in a book about early cemeteries of the city states that the City allowed the Chinese community to inter its dead at one end of the public area, creating a separate Chinese cemetery (Carpenter 1973:42). Permission was most likely sought from the Board of Supervisors since the County appears to have been operating the cemetery. Doubtless the Minutes of the Board of Supervisors of Los Angeles County for the 1870s-80s would contain much useful information. Unfortunately, the original, handwritten Board Minutes have been misplaced at a storage facility (Board of Supervisors Executive Office, personal communication, 2006).

Chinese continued to be buried at Fort Moore Hill as late as 1882 (*Los Angeles Times* March 10, 1882) and probably until the cemetery was closed to further burial. In October of 1885 a newspaper article names Evergreen as the site of a Chinese burial on October 4th and the site, weeks previous, of a Chinese gathering “to banquet the dear departed there interred” (*Los Angeles Times* October 9, 1885). Thus, there are a minimum of ten years (1885-95) for which no records are available (burial registers covering this period are missing) regarding Chinese burials at the Historic Los Angeles Cemetery. This Chinese cemetery apparently did not have an official name:

The burial took places at the county cemetery, just beyond the Evergreen Cemetery. (*Los Angeles Times*, March 17, 1900)

...to the Chinese cemetery at Evergreen. There is no other name for it. (*Los Angeles Times*, March 11, 1902)

...started for the Chinese Cemetery, which adjoins Evergreen Cemetery on East First Street. (*Los Angeles Times*, January 20, 1905)

...left to the Chinese burying ground next to Evergreen Cemetery. (*Los Angeles Times*, January 14, 1911)

The Chinese Shrine (Los Angeles City Historical Monument and California Historical Resource P19-003552; Appendix G) was completed in October 1888 according to a brass plaque on one of the structures (Figure 4.4). The structures, a memorial shrine and twin burners (one for prayers and one for personal possessions of the deceased), are set on a cement slab parallel to Lorena Street (Figure 4.5; note well defined path to shrine).



Figure 4.4. Chinese Shrine circa 1890 (CHSSC website)

The impetus of construction of the burners and shrine appears to have been concern about grass fires during the Hungry Ghosts Festival in 1888. This festival is held on the fifteenth day of the seventh month of the Chinese calendar when both orphaned souls and the chief judge are released from the deathly underworld to roam the earth; they must be fed or they will seek revenge on those who wronged them during their lives (Chace 2005:66).

Yesterday was a big day with the Chinese, it being the date for the annual feeding of the souls of the departed celestials. The heathens repaired to the graveyard where their dead are buried at an early hour with all manner of Chinese delicacies including roasted pig, chicken, confectionery, tea, saki, and other varieties of solid and liquid refreshments, besides a great amount of prayer papers to be burned during the ceremonies to keep out the devils.

Heretofore, when the heathens have had this annual feast, or celebration, or whatever they term it, they have taken precautions against the fire from these piles of paper spreading by cutting down and cleaning off the dry grass. This year this was omitted from some oversight, and they were in the height of their ceremonies when some of the residents in the neighborhood became alarmed lest there should be a grass-fire, and reported the case to the police headquarters. Officer Berry was sent out, and compelled them to extinguish their fires, after which they were allowed to finish their exercises, which continued for some time. They finally concluded and left the cemetery, and it will be another year before the ghosts are again fed. (*Los Angeles Times*, Monday Aug. 20, 1888).

While no mention of operating the cemetery occurs in the City Council minutes, a newspaper report explains that Evergreen personnel operated the Los Angeles Cemetery until the end of 1895:

The Cemetery Association Declines to Continue the Burial of Paupers

The Los Angeles Cemetery Association yesterday filed with the City Clerk the following communication, which is self-explanatory:

To the Mayor and Council of the City of Los Angeles: At a regular meeting of the board of trustees of the Los Angeles Cemetery Association held this day, the following resolution was unanimously adopted: Whereas, the conveyance to the city of Los Angeles of ground for a potter's field devolved on this association no obligation of superintending the burials therein, nor of management of the same in any manner whatsoever, and, whereas, the employment of this association in the matter of such burials prejudices the interests of Evergreen Cemetery in divers [sic] ways, notably by the detriment caused it in passing through it and to and fro from said potter's field, and in the matter of Chinese burials and their often obnoxious features, being conducted so immediately adjacent to, and apparently as part of, the management of the cemetery proper, now therefore, be it "Resolved, that after the 31st day of December, 1895, no interments shall be made in said city ground or potter's field, by or under the direction or management of the Los Angeles Cemetery Association, or of the superintendent or other employees thereof; and the secretary be instructed to inform the Mayor, City Council and Boards of Supervisors of the passage of this resolution".
(Cessation of Service, *Los Angeles Times* November 23, 1895, page 9)

The Executive Office was able to provide access to the Board of Supervisors Minutes for 1893-1899. Two mentions were found during this period. The first was a request, granted, that the Board of Supervisors pay \$7 to undertakers Kregelo & Bresee for the burial of an indigent child (Board of Supervisors Minutes January 29, 1896). The second was a request for bids for undertaking and interment at the cemetery (Board of Supervisors Minutes February 5, 1898):

In re Burial of Indigents-

Upon motion of supervisor Field duly seconded and carried the following is declared adopted: Resolved that the clerk of this Board cause to be published in the Evening Express for the period of five days, a notice, that sealed proposals for the burial of all indigents from Los Angeles City and immediate vicinity, excepting those dying at the County Hospital, that *are to be interred in the grounds adjoining Evergreen Cemetery* [emphasis added]. All coffins to be supplied by this County. Will be received up to 2 o'clock P.M of February 13th, 1896. A certified check made payable to the Chairman of this Board in the sum of \$50.00 to accompany each bid. This Board reserving the right to reject any and all bids.

The City Council minutes contain no further references to this East Los Angeles potter's field until 1914. At that time, City staff recommended exchanging the potter's field for county property for a park and playground (Los Angeles City Council Minutes May 26, 1914). The staff note "a certain portion ...known as Potters Field (*which has been under the care and jurisdiction of the County for a number of years*)...[emphasis added]. Eventually, the City Attorney reported that for legal reasons, exchange was not possible and recommended sale of the potters field and purchase of the desired park land (Los Angeles City Council Minutes October 19, 1916). The City conveyed title to the Potter's Field to the County for the sum of \$40,000 (Los Angeles City Council Minutes March 2, 1917).

In 1914, the Cemetery Division of the Department of Charities and Corrections of Los Angeles County report income from sale of “Chinese graves” in the amount of \$460, “disinterment fees” of \$120, sale of “ordinary graves” at \$66 and sale of “infant graves” at \$39 (Board of Supervisors 1914). This is consistent with information from the cemetery Burial Registers (section 10.2) indicating that non-indigent persons, including Chinese, were charged for burial.

Beginning in 1920, the Annual Report (Board of Supervisors 1920:30) identifies the cemetery as being:

located at 3301 East First Street, Los Angeles, directly east of and adjoining Evergreen Cemetery. It accommodates indigent dead of the City and County.

The report for 1922 (Board of Supervisors 1922:46) states

The total number of bodies buried in this cemetery up to June 30, 1922, was 13,239. The burials made during the fiscal year have exhausted practically all the available ground in the cemetery and, foreseeing this condition, steps were taken many months ago to provide for future needs by construction of a crematory. The structure was completed almost coincidentally with the end of the year [fiscal], and henceforth few burials will be made.

In the following fiscal year, an additional 69 people were buried and 529 were cremated (Board of Supervisors 1923:56). Subsequently, only cremations are listed. Thus the total number of people known to be buried at the Historic Los Angeles Cemetery is 13,308.

In 1922-23, a cottage was build on the cemetery grounds for the cemetery superintendent and the fence around the cemetery was repaired and painted (Board of Supervisors 1923:64). In 1924-25 a large portion of the cemetery was leveled, flat cement blocks substituted for the old wooden markers and water pipe laid to permit planting of lawns (Board of Supervisors 1925:60). Two additional retorts were added to the crematorium also. The 1926 report (Board of Supervisors 1926:72) specifies:

As the city grows the cemetery is being surrounded by the homes of people. The grounds are being improved and a grove of young pepper trees takes away the barren look of a pauper burying-ground. Contract has been let by the Supervisors for a wall along the Lorena Street side and this will later be covered with vines. A bluegrass lawn has been planted on each side of the roadway leading from the gate to the buildings and flowers are in bloom. The graves are being leveled and marked by cement blocks so as to make the grounds more sightly. Additional walks are to be built and the ground opened to the public to be used as a breathing space.

A letter to the County Cemetery superintendent authorized charging \$15 for cremation of those over 12 years of age and \$2.50 for those under (Wood 1923). It requests that relatives not able to pay be referred to the Department of Charities for investigation of their financial circumstances. Additionally the letter authorizes a charge of \$5 for disinterment with no possibility of reduction of the fee. The 1926 report (Board of Supervisors 1926:72) notes:

Even though this is a cemetery for the burial or cremation of indigents, a collection of \$1020 was made during the year. If the family of the deceased person is able to pay anything toward the cost of cremation, a nominal charge of \$15.00 is made. Disinterments, principally of Chinese bodies being sent to their native land, are charged for at the rate of \$5.00 each.

The 1927 report also waxes poetic (Board of Supervisors 1927:79):

The graves are marked with small round, concrete blocks, grass is being cultivated and a grove of pepper trees on the Lorena Street side is a source of beauty... Lorena Street, at the eastern boundary, is about to be improved and paved and as it is below the grade of the county property a retaining wall will be necessary. This will further improve the appearance of the tract and will remove the last traces of a "potters' field".

By 1928, a complex of structures was located at the Historic Los Angeles Cemetery (Figure 4.6; LAPL). These included the crematorium, chapel, garage and ash house to the northeast, a house with office and garage to the west and another house to the south.

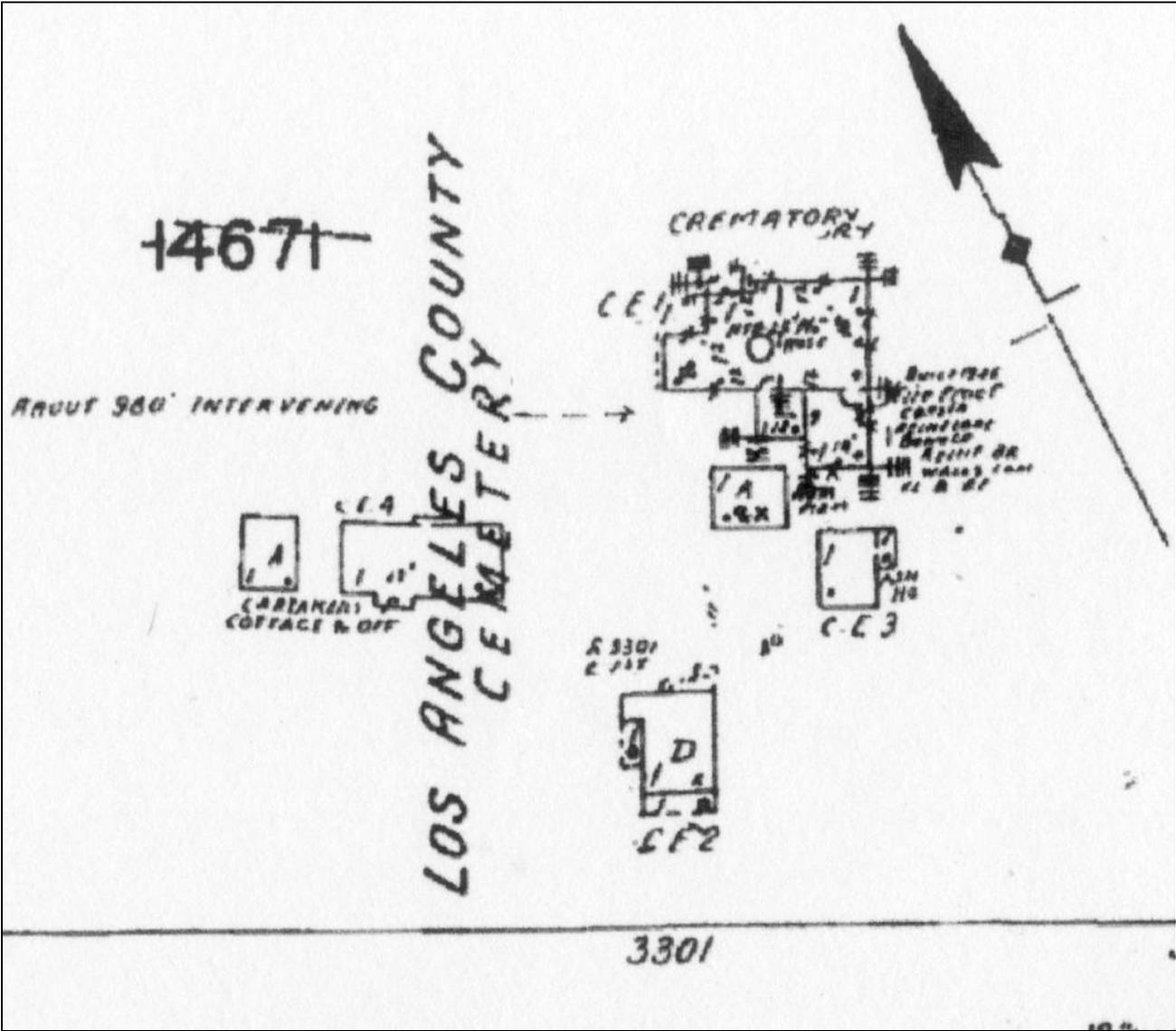


Figure 4.6. 1928 Sanborn Map of structures at Los Angeles Cemetery

A special report (Board of Supervisors 1929:32) indicates a complete sewer system and water mains have been installed, the grave head-boards have all been removed, the tract leveled, concrete markers level with the ground installed and additional trees planted. This work is evident in the 1928 aerial (Figure 4.3) as the ground surface is white from disturbance.

Plans to demolish the small southerly house at the cemetery plus install a parking lot, new fences and to maintain the well-defined path to the Chinese Shrine were approved in 1944 (Figure 4.5). The demolition of the house proceeded as it is not visible in the 1949 aerial (Figure 4.3) but the parking lot construction must have been delayed as it does not appear in the aerials until the 1950s (Figure 4.3).

A second chimney was built at the crematorium in 1955 as evidenced by engineering plans for the structure and for relocation of all graves in Block 12, the site of the chimney (on file, Los Angeles County Crematorium). The plans state that the burials from Block 12 were moved out along the Lorena Street boundary to make room for this addition.

Time was erasing the history of the cemetery. County documents introduce an error of fact by stating that the County purchased an already established cemetery operated by a Chinese organization that was no longer usable because all plots were full and then constructed a crematorium (Barr 1959; Appendix F). These identical statements were then repeated by subsequent county employees in other documents.

In 1962 the County declared 5.1 acres of the Historic Los Angeles Cemetery as surplus property (Davis 1962). In 1964 the County completed sale of that parcel to Los Angeles Cemetery Association (owners of Evergreen Cemetery) for \$126,000 (Board of Supervisors 1964). The County retained only the 3.9 acres of the modern crematorium (Figure 4.7). No documentation was located to account for the difference between the ten acres originally deeded for the indigent cemetery and its reduction to nine acres by the time of this sale.

Evergreen Cemetery put fill of depths from 4 ft. to 14 ft. over the existing graves on their new parcel (Davis 1962). This work is visible on the aerial for 1965 as white disturbed areas (Figure 4.3) and all of the trees present in the sold area were removed (compare aerials for 1965 and 1989). New plots were sold in this “fill” area as evidenced by surface grave markers visible today.

This placement of fill also had the effect of making the Chinese Shrine below the ground surface (Figure 4.8; compare to Figure 4.4). In 1990 the Shrine was designated a Los Angeles City Historical Monument and by 1992 the Chinese Historical Society of Southern California had purchased the Shrine to ensure its preservation (CHSSC website). The Society restored the shrine and it continues in use.

The Los Angeles Cemetery Association sold Evergreen Cemetery in 1993 to International Funeral Home Inc. The new owners placed a maintenance yard between the Chinese Shrine and the county crematorium (visible on 2002 aerial as white disturbed ground; Figure 4.3).



Figure 4.8. Chinese Shrine in 2006 (from P19-003552 site record)

Structure damage to the crematorium occurred during the 1994 Northridge earthquake (Anonymous n.d.; Appendix F). Ten years later, in 2004, repair work was completed including reinforcement of the walls and roof, rebuilding and reinforcement of a chimney and upgrading of the restrooms (Anonymous n.d.).

In summary, the Los Angeles Cemetery has a complex history with involvement of the Los Angeles City Council, the County of Los Angeles and the owners of Evergreen Cemetery. The City actually owned the land from 1879 to 1917 but apparently never operated it. The Los Angeles Cemetery Association (owners of Evergreen) appears to have been contracted to operate the cemetery from 1879 to 1895 and thereafter the County operated it. The County bought the cemetery from the City in 1917. Up until 1920, the only access to the Los Angeles Cemetery was through Evergreen. In 1920 the County installed a driveway to the cemetery and the cemetery gained an address on 1st Street. In 1922 the County completed construction of the crematorium and ceased burials as the entire 10 acre cemetery was full. The following year a house and garage were built for the caretaker on the property. Many changes were made in the 1920s including installation of irrigation, leveling graves, removal of headstones and installation of flat markers. In the late 1940s one house was demolished and a parking lot constructed. In the 1950s a block of graves were moved to allow expansion of the crematorium. In the mid-1960s, the County sold most of their land back to Evergreen, retaining less than 4 acres.

OVERVIEW OF AMERICAN DEATH PRACTICES

During most of human history, corpses were handled by their relatives in their homes. Typically, family members would sit with ill people until they died. The body would be washed and dressed and laid out for viewing. The body would be clad in a shroud (cloth covering) and placed in a wooden box for burial within a day or two. Most burials took place in churchyards. This was true in America through the mid-1800s.

The “beautification of death” movement began in the late eighteenth century, was at its height during the Victorian Era and was on its way out by the beginning of the twentieth century (Little et al 1992:415). The movement was adopted by different economic and racial classes within the range of English influence, including in America. It changed the way society viewed death some of which persists in present times (Bell 1990:55). It ended abruptly with the high casualty rates from trench warfare and disease during World War I. England banned public mourning in 1917 in order to raise morale. An overall angry attitude toward senseless war deaths simply made the “beautification of death” a contradiction of terms (PBS 2004b).

Beautification of death took place on many levels. Around this time a complex set of factors moved Americans to create “rural” cemeteries. Some of these factors were concern for health of the living given the condition of many churchyards and economics of land value within cities (French 1975:71-72; Cannon 1995:11). Many municipalities banned new cemeteries within the city limits. The rural cemetery movement created park-like cemeteries on large tracts of land (Linden-Ward 1992:293-328). Evergreen and Rosedale Cemeteries are both from this era.

The period between 1850 and 1870, the Civil War era, saw the rise of more public health care, advances in medicine, embalming, undertaking, insurance and photography (PBS 2004b). In addition, American manufacturers began to produce for the fledgling undertaking industry with mass-produced coffins and coffin hardware, making these items affordable for most (Tharp 2003:126-127). There was a dramatic increase in sentimentality about death, in part because doctors and undertakers began to be available to handle the realities of death. Participation of family members shifted to mourning and remembrances. Entire books were written on proper etiquette for the period of mourning for a family member (Levins 2002).

Preparation and display of the body moved out of the home and into the funeral parlor. Embalming, which preserved the body in a “life-like” state, evoked the notion that the dead were merely sleeping and denied the finality of death (Aries 1975: 154). Mourning cards announcing deaths were sent to family and friends; these cards also served as mementos of the deceased and were sent in envelopes edged in black. Public display of the “beautiful sleeper” made the family’s selection of coffin, hardware, flowers and other features important, especially for the status conscious. Inclusion of favorite objects in the coffin with the deceased became common. Black clothing was required for immediate family members. Because mourning clothes were often needed quickly, it became the first clothing available in shops at a time when most garments were made at home; however those that could not afford ready-made clothing simply dyed what they already had black (Levins 2004).

Undertakers provided funeral wagons pulled by plumed horses to transport the coffin to the graveyard. At the funeral it was customary to present mourners with gifts by which they could remember the dead. These included gloves, scarves, jewelry, handkerchiefs or food (Crissman 1994:142). Family members were expected to make conspicuous displays of grief and mourning.

Mementos of the dead were valued. As hair was often considered to be an individual's "crowning glory", hair of the deceased was used to make jewelry such as earrings and watch chains (Crissman 1994:137). Post-mortem photographic mementos became popular also. Early photos show an austere focus on the decedent. As the beautification of death movement intensified, the dead were often posed, in the home or in a studio, to look as if they were sleeping or with the family for a portrait. As the movement progressed, photographs of the deceased focused on the entire funerary scene with the deceased in an open casket surrounded by flowers, religious objects, household furnishings and portraits of the deceased while alive (Miller 2001:100-135). These photographs are similar to modern photos taken in a funeral home of a closed casket. Toward the end of the movement, photographs of the surviving family members taken at the burial site or at the home became popular.

INDIGENT BURIALS

Little is known about the burial of indigents and paupers in the 19th century as no primary (firsthand) accounts are known. In urban areas, public cemeteries for burials of indigents were often referred to as potter's fields. The term comes from the book of Matthew in the New Testament of the Bible. The priests of the temple, receiving from Judas the 30 pieces of silver paid him for betraying Jesus, refused to put them into the treasury since they were blood money. After discussing the situation, the silver was used to purchase the potter's field (formerly used to mine clay for pots) to bury strangers (Colman 1997). This term became widespread in America in the 1800s.

Since most funeral ritual of the time was vested in family members, it seems likely that poor who had family members available to mourn them received more ceremony than transients. Almost certainly, burial at the public's expense would have been carried out as inexpensively as possible. The purchase of burial containers by the town or city, short references to washing and dressing the dead in certain cases and the use of simple grave markers attest to a certain level of decency, although indigents and paupers would forever be kept on the margins of society through burial in the "potter's field" (Bell 1990:60). By the early 20th century, it is reported that indigent interments were made in plain, simple wooden coffins, transported by wagon rather than hearse and marked by simple wooden markers (Hoffman 1919:47-51 as cited in Bell 1990).

Prior to 1895, the City contracted with the Los Angeles Cemetery Association (owners of Evergreen) to prepare and bury corpses in the historic Los Angeles Cemetery, both indigent and Chinese. After 1895, the City provided the land for burial of indigents, the County provided the coffins and each government body contracted with undertakers to prepare and bury the bodies (see previous section).

Bell states that to "retain social respectability among the living, it was necessary to avoid the mortification of burial at public expense" (1990:59). Thus it can be supposed that the working poor

felt a need for a burial plot, coffin and coffin hardware, as the “mere presence of coffin hardware was considered minimally respectable” (Tharp 2003:119).

LOS ANGELES CHINESE DEATH RITUALS

INTRODUCTION

Funerary practices of China (Watson and Rawski 1988) and of Chinese in the western United States (Chung and Wegars 2005) have been well documented. A brief summary drawn from these sources is presented as an introduction followed by specific information on Los Angeles.

In China, in common with many cultures worldwide, persons who handled corpses were traditionally considered dangerous to touch or to interact with in any way. In California, this problem was neatly solved by using Euro-American undertakers who returned the body to the Chinese community encased in a coffin, protecting them from any dangerous contact. Paid mourners were utilized to open the coffin lid for viewing and to carry the coffin. These mourners were also used to collect personal property, especially anything touched by the dead body, and place it into bundles for burning; this protects the living from any transfer contact..

Chinese religions (Confucianism, Taoism & Buddhism) share a deep belief that spirits of the deceased are real and potentially beneficial or potentially dangerous to the living. Rituals and ceremonies have developed over time to minimize danger and maximize beneficence from the spirits or ghosts. These are particularly important if death is untimely, such as accident, drowning or murder, since those spirits are presumed to be angry.

New spirits require food and drink and prayers to protect them from the devil. In addition, respect for the new spirit must be demonstrated through eulogies, memorial tablets, and display of their value to the living (best possible feast, best possible coffin, most numerous mourners, best possible grave location, etc.). Between the display location and the graveyard the new spirit requires protection from being chased by the malevolent spirits. These are considered to be deterred by loud music, firecrackers and loud wailing plus slowed by a route with numerous turns and scattering of prayer papers with numerous holes (these latter two because these malevolent spirits can only travel in a straight line and must pass through all openings along his path).

Once at the graveyard, the spirit food from the preliminary ceremonies is laid out in case the new spirit needs to eat again. This food is also presented so that any unhappy ghosts (who were not paid proper respect or fed properly) who may visit will be satisfied and not create problems for the living. Representations of money, clothing and property are burned for use by the new spirit in the next world. The foot of the casket was typically struck to create an opening to accelerate decomposition of the body before the grave was filled.

After burial, tradition required feeding the spirit again at set intervals for several weeks. The effort required to do so also demonstrated continuing respect and value placed on the spirit. Two annual ceremonies serve to continue feeding and comforting of all spirits thereafter. These are the Pure

Brightness Festival (Qingming) in the spring and the Hungry Ghosts Festival (Yulanpen) in late summer.

In China traditional beliefs required exhumation of the bones of male relatives once the flesh had decomposed. The bones were then placed in an urn or other container and assumed their place in the family shrine where proper reverence could be demonstrated and the family would benefit from being in the good graces of all ancestral spirits. Continuing this practice for Chinese who died outside China was a major function of Chinese Benevolent Associations. After a period of several years, accounts vary from two to ten, most Chinese men were disinterred so their bones could be returned to their families in China. The exhumers cleaned any remaining flesh from the bones, transferred identification information to the new container, and shipped the resulting boxes. Any remnants of coffins, clothing, grave offerings, personal property, etc. were left in place.

LOS ANGELES

The primary sources of information on Chinese death ritual in 19th and 20th century Los Angeles are newspaper articles. Many were written when overt racism was common and contain wording that would not be considered appropriate today. The newspaper quotes are set off by indentation on both sides and a different font. Articles are referenced by the name of the deceased followed by the paper and date.

Most funerals that made the papers were for funerals of relatively wealthy Chinese. Chinese of more modest means had proportionately less elaborate funerals although all the elements would have been present. Below are segments of articles describing the funeral of an unknown Chinese man from out-of-town who nevertheless was given a proper Chinese funeral, a note that most Chinese laborers had minimal funerals and a notice regarding the funeral of a popular local Chinese chef:

...a small Chinese funeral came filing down Main and Commercial streets to the burying ground [Fort Moore Hill cemetery]. A nice hearse carried the corpse. A wagon with three mourners and the clothes and blankets of the dead man followed. On the hearse sat a Chinaman distributing little bits of paper to chase away the Devil. (unknown Chinese man who died on inbound train from Yuma, *Los Angeles Times* March 10, 1882)

Though the Los Angeles Chinatown contains several hundred Celestials, who are as subject to mortality as the rest of us, it is rarely that our citizens have the opportunity of witnessing a "bang-up" Chinese funeral. Most of the decedents are laborers or persons of little moment, and they are committed to the grave with the minimum of demonstration. Last Saturday, however, the pig-tailed fraternity had a funeral ceremony as interesting as it was rare here. (Foo Chong, *Los Angeles Times* October 9, 1885)

Typical Chinese rites were conducted in the funeral yesterday of Len San, a well known Los Angeles hotel cook, which was conducted by a delegation of members of the Chinese Masonic order from Los Angeles. (Len San, *Los Angeles Times* April 23, 1916)

Los Angeles Chinese managed to educate at least a portion of the larger community to the significance of their death rituals:

The Chinese believe that death is the beginning of a long journey On the journey the deceased has need of food and raiment and of the temporal blessings which are known to Chinatown. In addition there are spirits, both good and bad, that must be favored or propitiated, for these reasons an unusually large supply of the necessities of life are provided the departed friend. (Low Yow, *Los Angeles Times* March 17, 1900)

In Los Angeles, a preliminary funeral service was conducted at the home or business of the deceased prior to the procession to the graveyard. The body was displayed next to a table(s) with food and drink for the spirit. White shrouds and white suits are described for the deceased along with white banners on the coffin. Elaborate displays of food and drink are described to honor the deceases and propitiate the spirits. Music, prayers and demonstrations of respect by friends and family were common features:

The coffin containing the corpse was brought out on the side of the street, the cover removed, and a last look at the remains taken by friends. A table stood in the street, on which was displayed roast pigs, vegetables, three huge pyramids of fancy soaps, and dozens of tiny China cups, filled with tea, but from which no one partook. Near by a priest chanted from a huge book printed in Chinese characters, while the chief mourner, an old women dressed in a dirty blue gown, with a cloth over her head, sat on the ground near the coffin and moaned and groaned in the most approved agony of grief. (Ah Yet Kee, *Los Angeles Daily Star* August 8, 1877)

Hearing that a distinguished citizen of a Chinatown was dead and lying in state in that delectable portion of Los Angeles, in company with three friends I went Thursday evening to view the body. ... we soon came to a little alley dimly lighted by tallow candles that took us into a large room where there were 30 or 50 Chinamen working busily on banners, transparencies and other paraphernalia that they would need in the morrow's funeral. ... Mr. Undertaker led the way into the next room where the great follower of the square and compass lay in a neat coffin covered with a white shroud. By the head of the coffin was a basin of meal. At the foot was a spread of pork chops, chicken, rice, fruits of several kinds and many other edibles. (Lee Pai, September 1 in Los Angeles, *San Francisco Post* September 8, 1878)

On the south side of the clean-swept space under the peppertrees, directly in front of the door, two large banners, with rollers at each end, were hung up, apparently to break the force of the wind. They were of white cloth with blue border. Upon the white, in very large Chinese characters, was painted the name of the deceased, with the dates of his birth and death. Later in the day a planed board, three feet long and eight inches wide, the lower end unpainted, and the upper two feet a deep green with red inscriptions, was leaned up against the banners. It was the headboard to be placed over the grave. A smaller board, destined to go at the foot of the grave, accompanied it. Upon one of the lintel of the door was knotted a narrow strip of white cloth. The corpse was lying in the front room south of the entrance, in a rather expensive coffin. The body was dressed in a white suit, with blue trimmings, and was covered with a curious white robe. The head was closely swathed, and had several sheets of Chinese paper over it.

A little after 11 o'clock a number of Celestials brought out three tables, set them under the trees, and began to spread a feast for the dead. ...Having set out the tables beneath the shade, the workers began to produce the eatables. Two Chinamen came trudging from a bakehouse with a pole from shoulder to shoulder. In a bamboo sling depending from the pole was a wide carving board, and upon it was a whole roast pig. He was placed upon the table farthest from the banners, and a mate was soon put down beside him. Each pig was

probably a 75 pounder. They had been split from nose to tail, and sprawled upon their bellies. Their forefeet were curled around and tucked into the flesh each behind his own shoulder. A gash was cut into each side, and into it was twisted a hind trotter. Both pigs were done to a beautiful meerschaum brown. They had the rear table to themselves.

Upon the tables in front, however, there was a novel variety of viands spread. First to be notice were four plates of biscuits. They –the biscuits, not the plates- seem to have been boiled rather than baked; at least there was not a suspicion of a crust on any of them. Half were of a corpse-like pallor-neither white nor yet exactly grey—and the rest a brilliant cardinal. All were of a size as closely as if run in one mould, and all had “raised” well. Stuck on the sides of the pyramids into which the biscuits were built, were little wheels of the same material, cooked in the same way, whose spokes were alternate corpse-color and cardinal. The next notable entrée was the poultry—a hen and a rooster, stripped of feathers and boiled. Their combs, watties, etc. were left on, and their head were held up in a life-like manner. Both had their hind legs folded astern.

Beside the rooster and upon the same plate, was a roll of boiled fat pork; and upon it a setting of hard-boiled eggs with the shells off. Then there were pretty little bowls heaped with snowy rice, larger bowls filled with curious dainties which looked like strips of orange peel and squash fried in fat; and yet other bowls, whose contents appeared to be dried fruits. There were chop sticks laid in front of the dishes, in hen of knives and forks. At the table corners were little white tea pots with blue polka-dots; and these drew their inspiration, not from the herb which cheers without inebriating, but from a very American demijohn of brandy.

Last of all the table furnishings were two tin boxes, each fifteen inches long, six wide and four deep. There were well filled with sand and clean brown paper was neat paste over the open tops. Their mystery was explained when some of the attendants brought forth several packages done up in splints of bamboo. Unwrapped, these proved to be crimson wax candles from a foot in length and an inch and a half in diameter, down to less than half that size. All were of the same bright color, and all were adorned with the most brilliant hand-painting in purple, silver and gold. Each candle had a rocket-like stem of cane, and the stem, stuck down through the sand, served to hold each upright. The big candles were stuck in the middle of each box, with the little ones tapering (no pun) downward on each side. When these had been thus disposed, a great lumber of sticks with scented punk on the ends were also stuck into the boxes, and all were set burning together. (Foo Chong, *Los Angeles Times* October 9, 1885)

Among the hacks which dotted the great crowd about the spot, were two of special interest—the bandwagons. Each contained a full band of four pieces—but whether to call the string bands, brass bands, or cornet bands, would puzzle a Philadelphia lawyer, in his soberest moments. Each orchestra had an aesthetic bronze drum—or, rather, gong—suspended upon by a small stick. Each had also a mammoth pair of cymbals, a fife, and a wooden drum. The fife had a tiny ivory mouthpiece, and a blunderbuss of a brass flare at the other end. The drum was like unto a nailkeg in size, but appeared to be carved from one piece, with the core excavated from beneath. The top was round; and the tone, under the taps of two sticks, recalled the familiar xylophone of theatre orchestras. ...

As the bands struck up their doleful ditty, the hired mourners went in to request the deceased's attendance at the ceremonies. These official mourners, or pall-bearers, were all young men, with long, white night-gowns over their other clothing, and white cook's caps on their heads. They brought out the coffin with much ado, and set it on trestles with the head to the banners and the foot to the feast. A six-inch strip of crimson cloth ran from end to end of the coffin top; and a similar but shorter strip was tied across the head of the coffin. Two gilt paper affairs with peacock feathers were stuck in the knots.

On the back of the rear table was a white curtain, with a green landscape painted upon it. Behind it two rows of heavy straw matting were spread upon the ground. Four of the hired mourners first advanced upon the matting, side by side. They clasped their hands, bowed thrice, and went down upon their knees. Then the other two poured brandy from the teapots into four thimble-sized china cups. Each kneeled, took a cup drained it upon the matting before him, and thrice bowed his body until his face was within a foot of the ground. Then they rose, and the other two mourners, with two dark clothed friends, took their places. This performance was kept up for over an hour, all the friends of the deceased thus paying their respects. (Foo Chong, *Los Angeles Times* October 9, 1885)

Four posts were planted in the ground near the sidewalks, arranged in the rectangular form, over the tops of the poles, that extended about eight feet into the air, canvas was stretched. Beneath the canvas and about eighteen inches from the ground boards were placed to hold many peculiar emblems that are indispensable to a Chinese funeral. The low bench held a whole roast pig, several roast chickens, rice and an assortment of Chinese beverages. Pans filled with sand were places around the edges and candles, tapers and punks all lighted, set upright in them. The corpse was brought ... and placed beside the funeral banquet. Some incantations were indulged in and a Chinese band proceeded to beat the tom-toms and the drums in a most heart-rending manner. (Low Yow, *Los Angeles Times* March 17, 1900)

With an American 5-cent piece between his lips to pay his entrance fee to the doorkeeper of the Chinese heaven Ah Mow lay in state under a canvas fly in front of the Hop Sing Tong's headquarters, 520 ½ North Los Angeles Street, yesterday afternoon. Prostrated upon a mat before the coffin were Ah Mow's widow, his little son and his baby daughter, garbed in white – the mourning color of China.

Pressed to the ropes encircling Ah Mow's coffin and the tables upon which were displayed the viands prepared for the last journey of the dead Chinese was a big crowd of sightseers. Those who stood in front saw the ceremonies of the Chinese Freemasons. Those behind had to content themselves with hearing the wails of the widow and the children, accompanied by an obligato performance by a Chinese musician on a little brass clarinet from which he drew a monotonous tune.

The Chinese Freemasons, who had charge of the service at the Plaza, wore long pearl-gray wraps and around their heads were strips of white and red cloth. They crowded around a table upon which three whole roasted pigs, a dozen baked chickens, cups of rice, dishes full of doughballs and trays heaped with Chinese sweetmeats were placed. Burning punk and spluttering thick red candles diffused sickening odors. The pallbearers, garbed in long white blouses, assisted the Masons in their ceremony.

Libations of sam (som)-chu or Chinese wine were poured in little cups and after short prayers, thrown upon the ground in front of Ah Mow's photograph, which was placed in such a manner that it dominated all the eatables prepared for his trip to Spiritland. From a sack containing a lot of paper inscribed with Chinese characters the Master Mason drew a bundle. Another applied a match to this and when it had been reduced to ashes Ah Mow's body was lifted up and carried to the hearse. Part of this bundle represented Ah Mow's future home in his Chinese heaven and the rest was the money to keep himself in style.

There were flowers and wreaths, contributed by American friends, on the coffin. One floral display was in the form of an anchor sent by the Los Angeles Chinese Reform Association. Scrolls of silk and paper upon which the virtues of Ah Mow and his ancestors were engrossed and which had been stacked near the bier were lifted aloft so the body was bound to the hearse and the Chinese cemetery. (Ah Mow, *Los Angeles Examiner* Friday

Jan. 20, 1905)

In the natural course of human events, Lau Yok Jew died and the Masons buried him. It happened at No 315 ½ Apablasa Street, Chinatown, at 1 o'clock yesterday afternoon. Great was the roast pig, great the tom-toms, great the fireworks and inexpressibly great the mourning. It took place in the street... (Lau Yok, *Los Angeles Times* January 14, 1911)

After completion of the preliminary ceremonies, the funeral party proceeded to the cemetery. Measures to deter the malevolent spirits were employed along the way and once at the graveyard, death-contaminated property was burned (for protection of the living) separately from paper representations of property (for use by the spirit in the next world), and the spirits fed:

About 2 o'clock the procession was formed and took up its line to march through Los Angeles, Commercial, Main and Temple streets to the cemetery [Fort Moore Hill Cemetery]. A carriage, preceding the hearse contained a Chinese band, with gong, cymbals, flutes, fiddles, etc., the music from which was ear-piercing and unearthly. Immediately in the rear of the hearse were two large express wagons filled to their utmost with every variety of provisions, the first of the wagons also containing the chief mourner, whose heart-rendering shrieks increased in power and volume as the procession advanced. Then followed, apparently, every hack, carriage and livery vehicle in the city, all closely packed, and, bringing up the rear, were innumerable fish and vegetables wagons and Chinamen on foot. The procession was over in ten minutes in passing a given point, and attracted general attention from which thronged the sidewalks. (Ah Yet Kee, *Los Angeles Daily Star* August 8, 1877)

At two o'clock Fred Dob's band – not Chinamen – marched through our principal streets leading an immense procession. Immediately following the band was the hearse drawn by four horses. Following the hearse, came first, hired mourners on foot, then the Masonic lodge – mostly Chinese - composed of about one hundred members, all on foot, and then followed a long line of carriages. The hearse had the square and compass in each window. (Lee Pai, September 1 in Los Angeles, *San Francisco Post* September 8, 1878)

At last the dead man had feasted enough. The viands were put in F. Baker's express wagon, in which was already stored all the bedding, clothes and other property of which Chong died seized. After long delays, during which an artist photographed the curious scene, the procession started, one band ahead of the hearse, and the other at the tail end of the convoy of fifty-six vehicles.

Arriving at Evergreen Cemetery, the hearse stopped while everyone gathered about. Then the coffin was taken out and set on trestles by the grave, and there was more bowing and worshipping. A lot of brown papers of different shapes were burned. Some represented money, some stood for clothing, etc., and thus the deceased went to *Ting Hong* well heeled. Then the coffin as lowered into the grave, and the victuals and property of the deceased were burned in the furnace which the Chinese keep there for that purpose. This was not, as an intelligent Chinaman informs the reporter, to send the things to the next world for their former owner-who had already been provided for by the symbolic sacrifice papers- but because no Chinamen keep the dead man's things. ...The su-song of Foo Chong was the most elaborate here in eight years. After the ceremonies at the cemetery, the friends came home and feasted on the roast pigs. (Foo Chong, *Los Angeles Times* October 9, 1885)

There were three Chinese bands in the procession, with marshalls on horseback, and over fifty vehicles in line. The hearse was drawn by four horses, two blacks and two grays. (Low Koon Goo, *Los Angeles Times* July 4, 1890)

A silver coin was placed in the bottom of the coffin and another in the mouth of the deceased. After some of further mystic rites the funeral cortege was formed. The provender and candles, and the corpse were loaded into one express wagon, and the clothes of the deceased, together with part of the bedclothes and couch which the woman had used in life, occupied another. Then came the hearse and the carriages containing friends. ... At the grave the food and native wines were placed about the grave... and pictorial representations of the Chinese devils burned. The clothes and slats of the bed were also incinerated in the belief that by this means the pleasures of the journey would be enhanced. The burial took place at the county cemetery, just beyond the Evergreen Cemetery. (Low Yow, *Los Angeles Times* March 17, 1900)

A guard of honor composed of very well-drilled young Chinese dressed in uniform similar to that of American cavalrymen followed the body. There was a long line of carriages filled with members of the Hop Sing Tong of which Ah Mow was president. There was an American band and a Chinese band. The procession closed with express wagons, containing all the elands prepared for Ah Mow's journey. In former days, these were left at the cemetery. Now they are returned to Chinatown, because tramps got into the habit of congregating at the cemetery after a funeral and eating up the provisions intended for the late lamented. (Ah Mow, *Los Angeles Examiner* January 20, 1905)

... afterward Lau Yok Jew took an unconscious part in a unique procession which left to the Chinese burying ground next to Evergreen Cemetery. The procession consisted of one band wagon and one hearse. Lau Yok Jew was not in the band wagon. A great deal of care was taken to throw the devil off the scent. (Lau Yok, *Los Angeles Times* January 14, 1911)

En route to the cemetery one member of the delegation rode on the funeral car, scattering a trail of torn bits of paper. The Chinese belief is that Satan must pass through small holes in the paper bits, this delaying this Satanic Majesty's progress until the soul of the dead has safely passed through purgatory. Cook meats and other viands were spread on the grave for the entertainment of the spirit guests who might visit the scene later. (Len San, *Los Angeles Times* April 23, 1916)

Disinterment of bones and processing for shipment back to the deceased person's family in China were unfamiliar to non-Chinese and many who happened to view the procedure were squeamish:

A Chinaman, in fact, half a dozen Chinamen, sitting scrapping bones. Human bones. Bones that have aided in cultivating our orchards, in washing our linens, in cooking our dinner. There they were, in little piles, carefully arranged so as not to become mixed, in the Chinese burying ground, yesterday. ...John kept on scraping the femur; then the skull was taken up, and his old table knife soon cleaned that after a fashion; then came the ribs and fingers, and legs all prepared. The vertebrae were carefully tied together and then the master of ceremonies deftly arranged the bones into a neat bundle, which looked exactly like a mammoth package of liquorice roots such as druggists have. A few twists of twine around it made it ready for the next operations.

The "remains" were then tossed over to another John, together with a memorandum, which looked like a tea-chest label. This man neatly did the bundle up in wrapping-paper, then put a sheet of rice paper over it and consulted the tea-chest label a few minutes. "Hung Li, bing gaa, mana kee-e-e- fiko," he chanted in an undertone, while the reporter was frantically trying to write down the words. It was evidently the deceased record he was reading, for with his brush and India ink he soon has a fake simile of the tea label on the neat looking bundle.

It was now transferred to another man, who was busily engaged in packing numerous similar packages in a large packing case, gaily decorated with red labels. The bundles told their own stories to some extent. Some were miniature, others medium sized, and one or two looked as if their contents might have formed the framework of a six-footer. Four of the chests were already packed and this one was about half full. The packer picked up the one the reporters had watched through its career, fitted it neatly into its space, and sang out what evidently meant "Next!" for soon another remnant of mortality was handed to him and was popped into its place. These chests are shipped to San Francisco, thence to China, where once in their native soil, the souls of the departed are supposed to be free to enter paradise. There are no religious ceremonies held.... (*Los Angeles Time* April 7, 1887)

... yesterday at the Chinese graveyard, just to the East of Evergreen Cemetery, and adjoining the public highway on East First Street. At the present time there are five graves lying open there, with the rotten, reeking coffins which lately held the body of some departed Celestial, fully exposed to view, while on the piles of soil alongside the graves are the decayed grave clothes, and scattered around are queues of the recent occupants and broken fragments of coffin. ...

These graves have been opened to secure the bones of the dead Chinamen, in order that they may be sent back to China for their final rest. ... In many cases old coffins, half rotted away, have been torn to pieces and the sections are scattered about the graves. Old slippers, pantaloons, overcoats, caps, etc., rest in confusion, not exactly picturesque, just where they have been pitched when pulled out of the graves by bone hunters. In several cases the long black queues, neatly braided and perfectly preserved, with bits of scalp attached, lay on the ground at the edges of the open graves.

...Down at the eastern end of Apablasa street there is a three-room shack enclosed with a high board fence. This building economically combines two enterprises. It is known as the Chinese hospital and "Dead House." In two ... rooms the poor, decrepit old Chinese who are so diseased and unable to work that their end is considered near, are allowed to eke out their miserable existence and await their inevitable end. In the third room of this building is the "Dead House." When the bones are taken from the graves at the cemetery they are sacked up and carted to the "Dead House." Here they are poured out on tables and the old men scrape them clean of remnants of adhering flesh. The bones are then placed in tin boxes, labeled, and stored away until enough have accumulated to make a shipment to the Flowery Kingdom.... (*Los Angeles Daily Times* December 11, 1902)

A sensational yarn about the desecration of Chinese graves at the county cemetery was recently published by a local sheet. That the highly colored account was without foundations is stated by Mr. Hildebrand, foreman of the cemetery. Bodies cannot be removed until after a lapse of ten years and the graves are refilled immediately either by Mr. Hildebrand or the Chinamen themselves who dig up their dead to ship them to the old country. That the Chinese section is untidy, bestrewn with old clothing and like trash is true enough, but queues and putrid flesh are minus quantities. (*Los Angeles Daily Journal* December 12, 1902)

The accounts above predating 1885 are for interments at the first public cemetery at Fort Moore Hill. This is known because they predate 1877 or because the streets named are the route to Fort Moore Hill. They are relevant as descriptions of the Chinese community's death-related rituals.

Those that postdate 1885 are for interments at the Los Angeles Cemetery. It does not appear to have had a formal name as it is variously referred to as Evergreen, the county cemetery next to

Evergreen, the Chinese burying ground next to Evergreen and the Chinese graveyard just to the east of Evergreen. These accounts detail the use of American undertakers to prepare and bury the deceased Chinese, the display of the corpse and of the food for the spirits, the transport of the corpse to the Los Angeles Cemetery in a traditional funeral procession, graveside ceremonies and disinterment procedures.

Chapter Five grave things

INTRODUCTION TO CEMETERY MATERIAL CULTURE

Most cemeteries, as revealed by archaeology, have a wealth of material items directly related to burial practices such as coffin hardware and grave markers. Many, especially after the mid-19th century, also have personal items including clothing and favorite possessions. This is reflected at the Historic Los Angeles Cemetery where the most abundant artifacts were coffin hardware and buttons. We have presented the numerical presence of the artifacts earlier (Chapter 3) and in this chapter, we present and interpret those which have special significance. Grave markers generally have name and date of death but may also have other information. Coffin hardware illustrates societal trends of the time and in the case of non-indigents, consumer choices. Chinese artifacts present include items that are burial related, personal items and religious grave offerings to assist the recently departed with their needs as spirits and in finding the path out of this world. Coins and miscellaneous personal items are of interest for the choice made to include them in the burial.

GRAVE MARKERS

Indigent graves, according to our historical information, had wooden markers but had headstones only if the family paid for them. In fact, only three American headstones are known; one for a young man and two for children. Simple concrete markers used by the cemetery administration as location markers were also recovered. However, these were extensively damaged and many moved by heavy commercial lawn moving equipment of the latter half of the 20th century. Two types of Chinese markers were recovered from the Historic Los Angeles Cemetery, headstones and burial bricks. These markers were not originally intended to be permanent but rather to mark graves for disinterment and return of the person's bones to the family in China. In the 20 century, remaining grave markers were laid flat to permit mechanical mowing of grass overlying graves.

AMERICAN HEADSTONES

Three traditional American marble headstones were recovered from the cemetery. These are all for young people and all were found in the oldest part of the cemetery.

The first headstone found was 20.5 inches (52.07cm) tall and arched at the top. The lettering was deep and in very good condition. The headstone read T.E. BUZBEE/BORN/AUG. 12, 1865./DIED/FEB. 1, 1883 (Figure 5.1). Buzbee was 18 at the time of his death. This headstone was found flat on the ground, under the sod adjacent to the skeleton of an adolescent male 17-19 years of age.

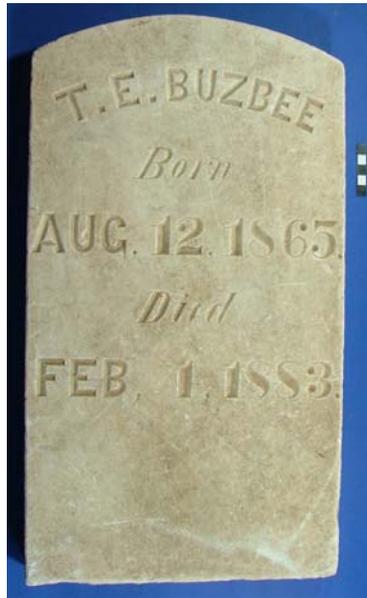


Figure 5.1. Headstone for T.E Buzbee

The second headstone was found flat under the sod, was 16.9 inches (42.9cm) tall, arched at the top and beveled on the front sides. There was some damage to the top. The top front of the headstone featured a bird set into a circle and decorative flourishes to either side. The lettering was deep and in good condition; there was some damage to one letter. The headstone read WILLIE E./SON OF/I.C. & S.F. SMOOT./DIED/NOV. 29. 1883/AGED/6 YRS. 13 D'YS (Figure 9.2). Willie Smoot was just 6 years old at the time of his death.



Figure 5.2. Headstone for Willie E. Smoot

The third headstone found was found flat under the sod, was 18.7 inches (47.4cm) tall and had a Gothic-style arched top and notched sides. There was some damage to the top. The top front of the headstone featured a three-dimensional cross and decorative flourishes to either side. The lettering was in very good condition, though not carved as deeply as the other two headstones. The headstone read ANNA LUDEMANN/GEB./DEN 28. MAR. 1880/GEST./DEN 1. AUG. 1880 (Figure 5.3). Anna Ludemann was only 5 months old at the time of her death. Her headstone is the oldest in this portion of the cemetery.



Figure 5.3. Headstone for Anna Ludemann

CONCRETE MARKERS

Twenty-six concrete plugs with legible numbers on their tops were recovered. Most of the plugs had one number on them and it is unclear what this represented. Nine plugs had one number over another (Figure 5.4). This may indicate section and row numbers or row and grave numbers. All but two of the plugs were cylindrical with a standard height of 7.8 inches (19.8cm) and a top diameter of 3.9 inches (9.9cm). The base was slightly larger. Two rectangular plugs were recovered, both with a height of 7.6 inches (19.3cm) and width of 2.9 inches (7.3cm).

CHINESE HEADSTONES

Twenty-one fragments of eight marble headstones with Chinese characters on them were recovered from the cemetery. The following is a description and translation of each headstone.

A large headstone from Recovery 111B was broken into six pieces (Figure 5.5). The right characters translated as “Ning Yap”, a former name for Toishan county in Guangdong Province. The center five characters translated as “Jew Fuk Cheong gong mu”; indicating that this is the tomb of Mr. Jew Fuk Cheong. The left two characters translate as “Fu Shek”, a place name that means “floating stone”; this may indicate that there was a pumice mine nearby.



Figure 5.4. Concrete marker



Figure 5.5. Headstone from Recovery 111B

The headstone from Recovery 160C was a tall stone with an arched top (Figure 5.6, on left side). The right characters translated as “Tai Tam cun”, meaning Tai Tam village, Hoi Jin. The center characters translated as “Wai Yik Keung weng fenmu”, indicating that this is the tomb of master Wai Yik Keung.

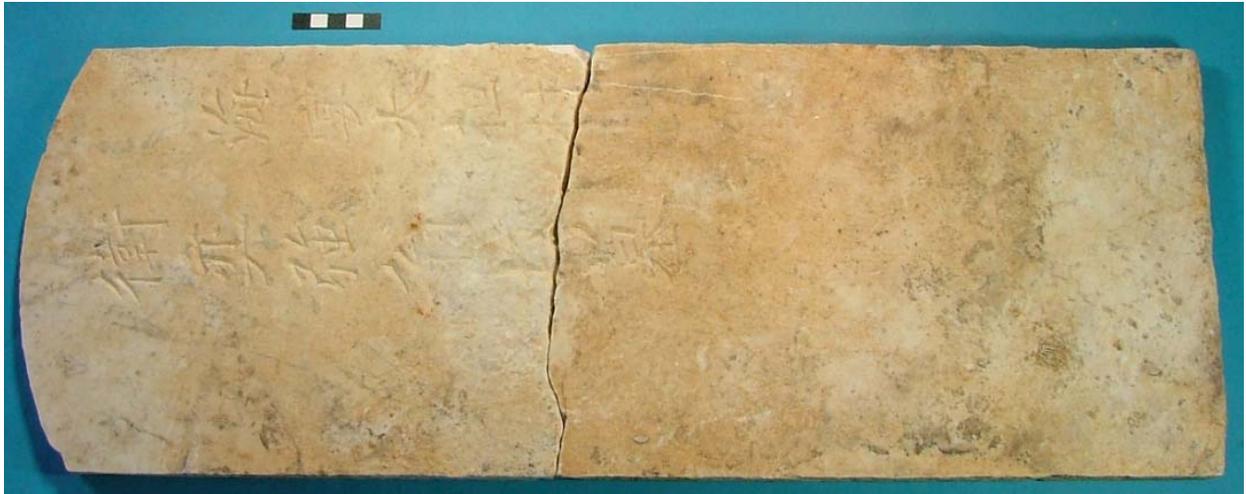


Figure 5.6. Headstone from Recovery 160C

Isolate EI163C was broken into seven pieces but had a rounded top. The stone is broken where part of the name should be (represented by “XX”). The center characters translate as “Qing Hoi Jin Wah XX gong mu”, indicating that this is the grave of Mr. Wah XX of Hoi Jin, of the Qing [Empire]. The bottom characters were broken off and undecipherable (Figure 5.7, on left side).



Figure 5.7. Headstone EI163C

Isolate EI164C was a small, rectangular stone. The Chinese characters are shallowly inscribed and cannot be read on photographs. The top characters translated as “Hoi Yap”, referring to Hoi Ping county, Guangdong Province. The right characters translated as “Shi ju Yeung Lo”, meaning that the deceased was a multiple-generation resident of Yeung Lo. The center characters translated as “Chew Cheong Jin gong mu”, indicating that this is the tomb of M. Chew Cheong Jiu. The left characters translated as “Wing On Tseun ren”, meaning this was a man of Wing On village.

Isolate EI165C was a base fragment with one character translated as “Mu”, the character for tomb (Figure 5.8). Isolate EI168C was a fragment with an illegible character.

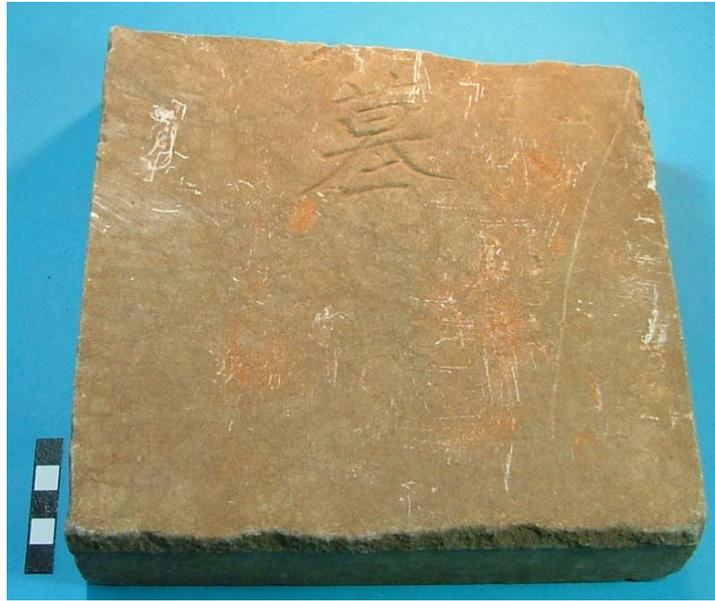


Figure 5.8. Headstone EI165C

Isolate EI217C was a rectangular stone broken into two pieces. The characters on the right translated as “Hoi Yap”, referring to Hoi Ping county, X village (“X” represents an undecipherable character; it may be “To”; Figure 5.9). The center characters translated as “Kwan Sum”, indicating the name of the deceased. It should be noted that the character “Kwan” was missing many strokes, possibly because of the quality of the stone.



Figure 5.9. Headstone EI217C

Isolate EI19N/P was a rectangular, marble stone that was heavily damaged (Figure 5.10, on left side). Most of the characters had been chiseled out; the characters that survived were one on the right, translated as “Wan Yap”, a district in the Guangdong province, and one at the bottom center, “Mu”, meaning “tomb”.

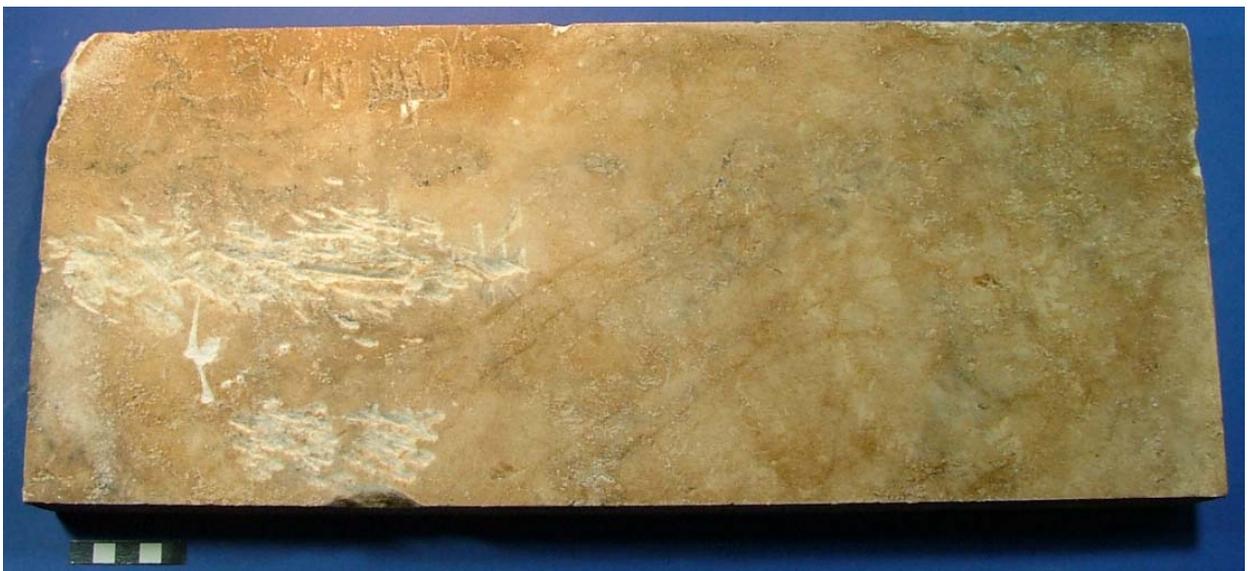


Figure 5.10. Headstone EI19N/P

CHINESE BURIAL BRICKS

Twenty-two fragments of fourteen Chinese burial bricks were recovered. Burial bricks were buried with the individual and had identifying information painted or carved on the surfaces. The bricks, meant to be read when the individual was disinterred, usually featured the name of the individual and the name of the home village in China.

The characters on the brick from Recovery 137C were painted onto the surface (Figure 5.11). The right two characters translated as “Lee cun”, meaning Lee village. The center characters translated as “Chow Nui Kam Wai”, meaning the tomb of Chow Nui Kam, the name of the deceased woman. The lower characters could not be deciphered. The reverse of the brick had the mark of the brick maker, J. MULLALLY/LOS ANGELES. Mullally operated a brickyard under his name until about 1890 (Greenwood 1996:125).

The characters on the brick from Recovery 98B were painted onto the surface (Figure 5.12). The characters translated as “Wong Sei Tsun fenmu”; meaning the tomb of Wong Sei Tsun.



Figure 5.11. Burial Brick from Recovery 137C

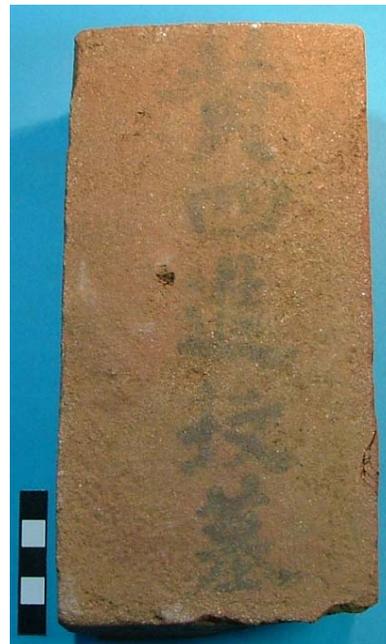


Figure 5.12. Burial brick from Recovery 98B

Two fragments of one brick were recovered from Recovery 123B. This brick had characters carved into the surface (Figure 5.13). The right characters translated as “Tung Hou li”, referring to the Tung Hou township, Ning Yap. The center characters translated as “Wong Choi Kei”, meaning that this is the tomb of Wong Choi Kei. The middle character (the given name of the deceased) has two extra dots which could be a mistake or a local variant.



Figure 5.13. Burial brick from Recovery 123B

One whole brick and three brick fragments were recovered from Recovery 159C. It was unclear as to if the three fragments were from the same brick; no refit was possible (Figure 5.14). The characters were painted onto the surface. The bricks have the same inscription: “Kam Bin cun”, referring to Kam Bin village, Tung Hou, Ning Yap. The characters at the bottom translated as Wong Gun.



Figure 5.14. Burial bricks from Recovery 159C

Two brick fragments with characters painted onto the surface were recovered from Recovery 126B (Figure 5.15). It was unclear as to if the fragments were from the same brick; no refit was possible. The right characters translated as “Wing Shing, Tung Hou”, referring to Wing Shing village, Tung Hou. The center characters translated as a partially legible name, “Yee Jy Wong gong”, meaning

Mr. Wong. The characters on the left side of the brick indicated the exact time of the man's death: "Guangxu 11 nian 11 yue chu liu yinshi", meaning the yin hour of the sixth day of the eleventh lunar month of the Guangxu era. This is equivalent to the time between 4 and 5 am, December 11, 1885.



Figure 5.15. Burial bricks from Recovery 126B

The brick from Recovery 116B had characters carved onto the surface. The top two characters translated as “Ning Yap”, a former name for Toishan county in Guangdong Province. The right characters translated as “Shi ju Hoi Jin”, meaning a multiple-generation resident of Hoi An. The center characters translated as “Chew Kei Uet gong fenmu” indicating that this is the tomb of Mr. Chew Kei Uet. The left characters translated as “Na Ma Tung Tou”, referring to East point, Nama (Figure 5.16).



Figure 5.16. Burial brik from Recovery 116B

The characters on the brick from Recovery 158C were carved onto the surface and onto one side (Figure 5.17). On the top front, the characters were translated as “Nam Yap”, a former name for Toishan county in Guangdong Province. The right characters were translated as “XX cun”, where “cun” means village and “X” represents the missing character for the village name. The characters on the left translated as “Chang Sheng li”, referring to the Chang Sheng township. The characters in the center translated as “Chan Chue”, indicating the name of the deceased. The characters 13 on the side of the brick translated as “Guangxu 13”, meaning “Year 13 of Gunagxu”, which would be 1887 to the first month of 1888.

Isolate EI7C consisted of two fragments of one brick. The characters were carved and painted onto the surface and both sides (Figure 5.18). The brick had also been painted white. The characters on the front of the brick translated as “Wong Yuk Lun”, indicating the name of the deceased. The characters on the left side translated as “Tse Bin cun”, referring to Tse Bin village. The characters on the right side translated as “Ning Yap”, a former name for Toishan county in Guangdong Province.

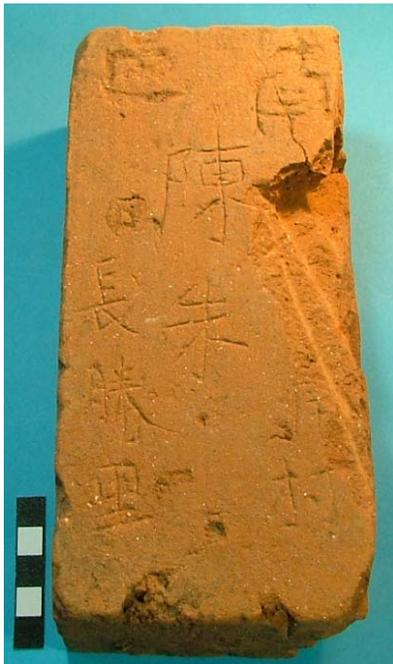


Figure 5.17. Burial brick from Recovery 158C

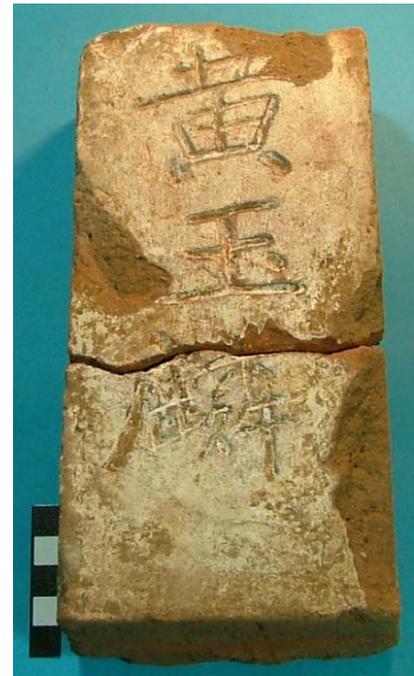


Figure 18. Burial brick EI17C

Isolate EI45C was a brick with very faded, painted characters on the surface. Only the final character of the deceased’s name, “Wong”, was decipherable.

Isolate EI46C was a brick with characters painted onto the surface (Figure 5.19). The right characters translated as “Shan Ha Tsuen cun”, referring to Shan Ha village, or literally, the village under the mountain. The center characters translated as “Wong Kwan San fen[mu]”, indicating that this is the tomb of Wong Kwan San. The character “mu” is missing but would logically follow.

Isolate EI76C was a small brick fragment with the partial character of the surname “Wong” carved and painted onto the surface.

Isolate EI166C was a brick with characters carved onto the surface. The characters translated as “Yuen Lung”, possibly the name of the deceased but it is also the name of a town in the New Territories of Hong Kong (Figure 5.20).

Isolate EI189C consisted of three brick fragments. Two fragments had characters carved and painted onto the surface. It was unclear as to if the brick fragments were from the same brick; no refit was possible. The character on one fragment translated as “Wong”, an individual’s name, and the character on the second fragment was undecipherable.



Figure 5.19. Burial brick E146C



Figure 5.20. Burial brick EI166C

EI2N/P was a brick with characters painted onto the surface. The characters translated as “Wong Choi Kei fen mu”, indicating that this is the tomb of Wong Choi Kei (Figure 5.21).



Figure 5.21. Burial brick EI12N/P

COFFIN HARDWARE

DECORATIVE COFFIN HARDWARE

Bell (1990:55) states that items produced in mass may “reflect an aspect of popular culture and function as a strategy of mediating or masking socioeconomic differences. Mass-produced objects are symbolic of apparent wealth; they serve to impart a sense of socioeconomic stature that was not otherwise attainable.” By the mid-nineteenth century, American companies were mass producing coffin hardware and using improvements in technology and transportation to serve the newly-established funeral industry. Custom-made, silver-plated brass hardware used by the wealthy could be inexpensively reproduced using white metal alloys. Widely distributed trade catalogs showed American consumers what was popular (Bell 1990:57). Hardware could be “bought in bulk from warehouses located in New York, Philadelphia, Boston, and San Francisco” (Allen 2002:4). So prolific had coffin hardware become that styles similar to those recovered at the Historic Los Angeles Cemetery have been found throughout North America in cemeteries dating after the mid-nineteenth-century (Bell 1990:54).

By the end of the nineteenth-century, the wealthy began reversing the trend using what Little (1992:398) calls the “invisible ink strategy”: after the middle and lower classes achieve the means by which to emulate the upper classes, the upper classes change slightly so as to be set apart again. As the wealthy began burying their dead in tasteful, understated coffins, the absence of elaborate hardware at the turn of the century made the coffins seem richer; meanwhile those of lesser means lagged behind, cycling through the earlier styles while the wealthy moved on, happily set apart.

McKillop (1995:83) states that no descriptive names were used in 19th century catalogs; only “plain”, “fancy” or “child’s size”, although several of these catalogs show that descriptive names were occasionally used. However most of the hardware in these catalogs were simply identified by a number. For organizational purposes, hardware styles were assigned descriptive names for this project. The general location of the hardware described below on the typical coffin is illustrated (Figure 5.22).

Swing bail handles, adult

Two hundred thirty-two standard-size swing bail coffin handles were recovered from the cemetery and were the most dominant types of coffin handles recovered. They are constructed from a white metal alloy and consist of a bail handle that connects between two lugs of the same material. Occasionally they were found with remnants of a silver or silver-like plating.

The handles and the lugs could be plain or decorated and were free so that they could swing out for carrying the coffin and rest against the coffin when not in use. They attached to the coffin with screws, usually two on each lug. Six handles, three per side, were standard. However, four handles, two per side, were often found. Hacker-Norton and Trinkley (1984:10) suggest that the use of four handles may be due to a lack of a sufficient number of pall bearers or perhaps to save on the cost of the burial. At the Historic Los Angeles Cemetery it appears the latter explanation is the most likely. Most of the handles were of a standard size; a few were larger, as for a larger coffin,

and several were smaller, as for a child's coffin. Many were meant for infant-sized coffins and are further

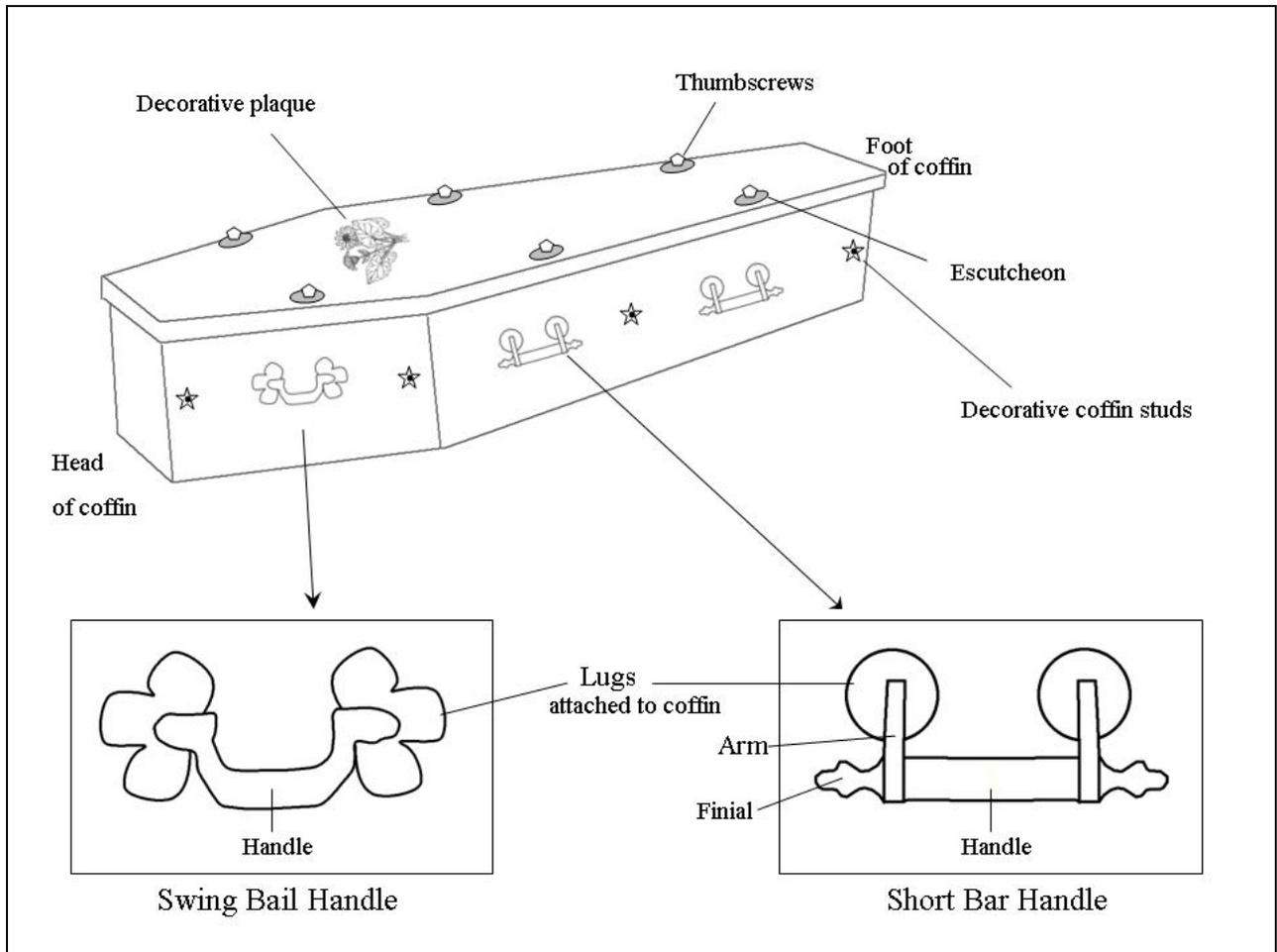


Figure 5.22. Placement of coffin hardware

discussed below. Swing bail handle styles could be purchased in small, medium and large sizes through companies such as Markham and Strong and Sargent and Company.

discussed below. Swing bail handle styles could be purchased in small, medium and large sizes through companies such as Markham and Strong and Sargent and Company. number of burials with swing bail handles and the variety of styles and interchangeable lugs and handles may show how popular they continued to be despite the fact that short bar handles were quickly rising in popularity (Kogon and Mayer 1995:156). It is far more likely that their presence at the Historic Los Angeles Cemetery was due to the fact that they were by this time out of style and therefore cheaper (Kogon and Mayer 1995:156). Kogon and Mayer (1995:161) propose the usage dates for swing bail handles as post-1860s, while Bybee (2006) suggests the usage dates were between the 1850s and the 1910s. The 1865 Markham and Strong catalog of coffin hardware shows swing bail handles for sale, so the latter date range was used for the purposes of this analysis.

The most common style of swing bail handle was given the descriptive name “Floral”, a simple design that featured the number “112” on the reverse of the lugs and handle and occurred on twenty coffins (Figure 5.23). This style appeared more often than any other frequently occurring style in other categories of decorative hardware. In the 1882 Columbus Coffin Company catalog (1882:16), this style is sold as “No. 83”.



Figure 5.223. "Floral" swing bail handle

Symbolism found on swing bail handles throughout the cemetery included natural and Christian motifs. Acorns and oak leaves, symbols for stability, strength and honor, were found on two handles (Boyle et al 2005:91). Handles representing shaking hands, symbolic of a final farewell to the living, were recovered. A style representing climbing ivy on tree trunks was also found; these can be interpreted as a symbol of fidelity, attachment and the brevity of life (Author Unknown 2003). Christian symbolism in the forms of Botonee and Gothic crosses were also found on swing bail handles.

Swing bail handles represented a large portion of the mismatched hardware at the cemetery. Five swing bail handles were recovered from Recovery 92B, four with the popular Floral style and one in the Acorn style. It is possible that the Acorn handle was placed on one of the ends of the coffin for extra embellishment. Another example of mismatched hardware can be seen on Recovery 60E, in which the lugs are two variations on the Botonee cross motif. The swing bail handles recovered from Recovery 137C, a disinterred Chinese grave, present a different kind of problem: ten handles in four different styles were present. This most likely represents abandonment of handles from more than one disinterment in one spot.

Two styles recovered represented fraternal orders. Fragments of two swing bail handles found with Recovery 159C had a letter "G", a compass and a square, classic Freemason symbols. The handles found with Recovery 158C had all-seeing eyes and the letters "IOOF" stamped on them, symbolic of the Independent Order of the Odd Fellows. However, these handles had been manufactured with the lugs upside down, indicative of factory seconds (Figure 5.24). Fraternal order hardware was widely available through the catalogs at the time.



Figure 5.24. Upside-down "IOOF" swing bail handles

Some swing bail handles were slightly smaller and were probably meant for children's coffins. The four swing bail handles recovered from Recovery 69E are representative of these scaled down sizes. One of the more unique styles was found on one of these smaller handles from Recovery 142C and represents two gloved hands holding a feathered handle, "No. 88" if purchased through the 1880 Meriden Britannia Company Casket Trimmings catalog (1880:5)(Figure 5.25).



Figure 5.25. "Blowed Hands" juvenile swing bail handle

Catalogs from the era state that handles can be used with different lugs. There were examples of mixing handles and lugs to create different styles at the Historic Los Angeles Cemetery. Recovery 60E and Recovery 52E show different lugs used with the Shaking Hands handle style bail (Figure 5.26). The top handle pictured was available through the 1869 Meriden Britannia Company catalog (1869:13), showing that this style was available for many years before the Historic Los Angeles Cemetery was even established.



Figure 5.26. "Shaking Hands" swing bail handles with lugs

Swing bail handles, infant

During the Victorian era when there was a high infant mortality rate, children represented innocence and infants the ultimate symbol of purity. Not even able to walk or talk, when an infant died he or she did so safe from sin in the eyes of their parents. The burial of an individual who was not yet part of the world was different than that of the adult who was (Snyder 1989:11).

Twenty-one infant swing bail coffin handles were recovered from the cemetery. In keeping with the sizes of the coffins, all of the handles recovered were tiny swing bail handles made of a white metal alloy and attached to a single, decorative lug. The lug was attached to the coffin with two screws. No more than four handles, two per side, were recovered from the infant burials. Styles were all variations on the same Lamb motif, a symbol of innocence and resurrection (Figure 5.27). Most of the variations featured the lamb against a sunburst, symbolic of eternal life (Boyle et al 2005:91). Other handle motifs were available at the time, including those of cherubs, scallops and stars, so the dominance of the lamb motif suggests that it was more available and possibly less expensive than the other motifs (McKillop 1995:87).



Figure 5.27. Infant swing bail handle

Short bar handles

Forty-two short bar handles were recovered from the cemetery. Short bar handles were the second type of coffin handles recovered. They consist of two white metal alloy arms that attach to lugs of the same material. The arms and the lugs could be plain or decorated and were occasionally found with remnants of a silver plating or silver-like plating. The handle, constructed from ferrous metal and reinforced with wood, attaches between the arms and is capped on either end by decorative

finials, or tips, made of a white metal alloy. The main difference between short bar handles and swing bail handles is that swing bail handles attach directly to the lugs while short bar handles are attached by arms to the lugs. Hacker-Norton and Trinkley (1984:8) state that short bar handles were available in various shapes such as round, square or octagonal and could be wrapped in plush fabric. However, remains of handles indicate that the only handle shape present was round. The handles were all found badly decomposed, leaving only the lugs, arms and finials. Short bar handles were able to swing out for carrying the coffin and rest against the coffin when not in use. They attached to the coffin with screws, usually two on each lug. Six handles, three per side, were standard, although like the swing bail handles, two per side were often encountered.

A standard size for short bar handles is difficult to determine because of the decomposition of the handles. However, lug and arm sizes appear to be standard, and there were no small-scale short bar handles for juvenile or infant coffins. Short bar handles continue to be used today on modern caskets. Kogon and Mayer (1995:161) propose the first usage dates for short bar handles as post-1878, while Bybee (2006) suggests the beginning date as 1890. However, the handles from Recovery 50E had patent dates of 1877 while the handles from Recovery 128C had patent dates of 1875, suggesting they were in use much earlier than previously thought. The dates and the under-representation in the cemetery also suggest that they may have been more expensive than swing bail handles. Short bar handles were more popular than swing bail handles from 1880 to 1920, making swing bails less-stylish and cheaper.

Owing in part to so few short bar handles being recovered from the cemetery, no one dominant style was found. Each style occurred only once or twice. Most of the styles were abstract, simple or geometric (Figure 5.28). The most ornate style depicted heavy drapery (Figure 5.29), symbolic of mourning (Boyle et al 2005:90).



Figure 5.28. "Decorative Diamond" short bar handle



Figure 5.29. "Drapery" short bar handle

Occasionally, short bar handles were found with swing bail handles. Recovery 83B is one instance of this occurrence; four swing bail handles and one short bar handle were recovered.

Escutcheons

One hundred forty-one escutcheons were recovered from the cemetery, eighty-nine of which were still attached to thumbscrews. Escutcheons served decorative purposes on coffins and were used in conjunction with thumbscrews and caplifters. They are basically screw plates, decorative or plain, attached to coffins with small, non-ferrous tacks. Thumbscrews or caplifters were inserted through a center hole. All of the escutcheons recovered from the cemetery were made of white metal alloy. Because they were only decorative, escutcheons were not always found with thumbscrews and caplifters at the cemetery. Kogon and Mayer (1995:161) propose the first usage dates for escutcheons as post-1871, and Bybee (2006) places the beginning date at post-1870s. The Paxson, Comfort and Company catalog advertised escutcheons for sale in 1877, so the latter date was used for the purposes of this analysis.

The most frequently occurring style observed for escutcheons was the Fleur-de-Lis motif (Figure 5.30), a symbol of passion or love of a mother (Boyle et al 2005:91). Other symbolism found on escutcheons includes drapery (mourning), crosses (faith, resurrection) and crowns (glory of life after death) (Author Unknown 2003).



Figure 5.30. "Fleur-de-Lis" escutcheon

Thumbscrews

One hundred twenty-four thumbscrews were recovered from the cemetery, seventy-six of which were still attached to escutcheons. Thumbscrews are decorative, often flat, heads attached to ferrous screws. Used with or without escutcheons, they were used on coffins to hand-tighten and secure lids. At the Historic Los Angeles Cemetery, all thumbscrews were made of a white metal alloy. It does not appear that there was any standard number of thumbscrews used at the Historic Los Angeles Cemetery, although Hacker-Norton and Trinkley (1984:30) found in a storeroom that thumbscrew and escutcheon sets came six to a package. Different styles on one coffin and more or less than six pairs per coffin at the cemetery suggest that leftovers may have been used. Kogon and Mayer (1995:161) propose the first usage dates for thumbscrews as post-1881, while Bybee (2006) places the first usage date as post-1870s. The Kogon and Mayer date is confusing because they place escutcheons at an earlier date, yet the only known use for escutcheons is to finish off the look for thumbscrews and caplifters, the latter having the same usage dates as thumbscrews. Bybee's date of post-1870s was used for the purpose of this analysis. Sargent and Company sold non-decorative thumbscrews as early as 1871, so Bybee's date is appropriate.

There was no dominant thumbscrew style found at the cemetery. The most common styles were Acanthus (symbolic of the heavenly garden), Crown (glory of life after death), Wheat (body of Christ) and Celtic Cross (faith and eternity) (Boyle et al 2005:91; Author Unknown 2003) (Figure 5.31). Other symbols found on thumbscrews were crosses and sunbursts (faith, resurrection and eternal life), drapery (mourning) and urns (ancient Greek symbol of mourning) (Boyle et al 2005:90; Author Unknown 2003).

Caplifters

Thirty-three caplifters were recovered from the Historic Los Angeles Cemetery; thirteen were attached to escutcheons. Caplifters are small, decorative, often doorknob-shaped heads with screws that attached to the lids of coffins in order to lift them for viewing. Like thumbscrews, the heads were made from a white metal alloy and had ferrous screws. Also like thumbscrews, they could be used with or without escutcheons. In fact, caplifters are so similar to thumbscrews, there is no reason not to believe that they could have been used as thumbscrews, and this could account for why more than one or two were sometimes recovered from a single burial (Figure 5.31). The main



Figure 5.31. Hexagonal Finial thumbscrew or caplifter, Celtic Cross, Crown and Acanthus thumbscrews

difference between caplifters and thumbscrews is that caplifter heads were often rounded or figural, while thumbscrew heads were flat. An example of a unique, figural caplifter was from Recovery 70E, an infant burial, and featured a bird on a bed of leaves (Figure 5.32). Kogon and Mayer (1995:161) propose the first usage dates for caplifters as post-1881, while Bybee (2006) places the first usage dates as post-1870s. The latter date was used for the purpose of this analysis.



Figure 5.32. Bird on Flowers caplifter/escutcheon

Decorative coffin studs

Ninety stamped tin coffin studs were recovered from the cemetery. Stamped tin coffin studs were attached to the exteriors of coffins, usually to cover up utilitarian hardware such as nails and

screws. They were available in various styles including six-pointed stars and Rococo shells. Tin was inexpensive, making the studs a very popular option for decorating coffins. At the Historic Los Angeles Cemetery, they were applied more frequently on Chinese coffins but used sparingly and only to hide utilitarian hardware on Euro-American coffins. Upon recovery, the tin was found to be extremely fragile, sometimes only leaving an impression in the matrix. Most of the studs recovered are fragments. Kogon and Mayer (1995:161) propose the first usage date for stamped tin coffin studs as post-1870. Bybee does not give a usage date, so Kogon's and Mayer's date was used for the purpose of this analysis. The most common decorative coffin stud styles found were floral designs, although other styles included Rococo shells and six-pointed stars (Figure 5.33).



Figure 5.33. Stamped tin coffin studs

Viewing glass

One popular 19th century coffin innovation was the glass viewing window, which allowed mourners to view the decedent. Coffin viewing glass windows were made from plate glass and set into the lids of coffins. They may have been developed as a means to view the deceased while keeping the living safe from disease or odors (Bell 1990:58). There were also options for how much of the body one wanted to show, from head only, head and chest, or entire body, as seen in many infant's coffins. Bell (1990:58) states that viewing windows were in use as early as 1848, but became much more common after the mid-19th century. Coffin manufacturers could cut the windows from ordinary windowpane stock, making them a very affordable way to beautify coffins. They could be cut in a variety of shapes from simple rectangles to rounded trapezoids; however there is no evidence that any Historic Los Angeles Cemetery windows were cut in any other shape but inexpensive rectangles. Approximately eight coffins at the cemetery had coffin viewing glass windows based on fragments recovered. Kogon and Mayer (1995:161) propose the first usage date for coffin viewing windows as post-1878, while Bybee (2006) proposes a range between the 1860s and the 1910s. The latter date range was used for the purpose of this analysis.

Plaques

Four coffin plaques were recovered from the cemetery. Decorative coffin plaques were constructed from white metal alloys in two pieces and then screwed onto the coffin lid. They were stamped

with generic, non-gender or religion-specific sayings such as “REST IN PEACE” or “AT REST” and not with personal information, which would increase the expense. Kogon and Mayer (1995:161) propose the usage dates for coffin plaques as between 1850 and 1870, while Bybee (2006) proposes a beginning usage date of post-1880s. The latter date was used for the purpose of this analysis; the beginning interment date of the cemetery was 1877 and one plaque had a patent date of 1879. Furthermore, the Markham and Strong Company was selling plaques as early as 1865.

Three of the four plaques recovered were of the same style. The plaque on Recovery 110B, patented in 1879, was larger, more ornate and featured roses and lilies (Figure 5.34) (symbolic of beauty, hope and resurrection; the lily is also commonly associated with female burials) (Boyle et al 2005:90-91).



Figure 5.34. Coffin plaque

Coffin decorations and ornaments

Nine coffin decorations were recovered from the cemetery. These served decorative purposes, were all made of a white metal alloy, and were flat, stamped plaques attached to coffins with small, non-ferrous tacks. Only one decoration per coffin was observed at the cemetery. Kogon and Mayer (1995:161) propose the usage date for these decorations as post-1881; Bybee (2006) does not give a date for decorations. The Meriden Britannia Company advertises a style found at the Historic Los Angeles Cemetery in their 1880 catalog, so the Kogon and Mayer date is generally correct. The most common style found was of a hand clasping a rose (Figure 5.35). The other styles found were of calla lilies and a flower basket.

Thirteen decorative coffin lugs and fourteen lotus blossom coffin ornaments were recovered from the cemetery. These artifacts were associated with Chinese burials and appear to be the only cultural embellishment added to coffins. Many of the white metal alloy lugs had traces of a silver or silver-like plating and oak leaf and acorn designs on them. They attached to the coffin with ferrous screws. A hole in the center of the lug held a knotted, braided string that was inserted through a hole and knotted inside of the ornaments. The ornaments, also a white metal alloy with traces of silver plating, represented lotus blossoms and hung upside down from the braided string (Figure 5.36). The lugs had patent dates of 1875. Nothing resembling these ornaments could be found in the period coffin hardware catalogs.

Decorative corners

Three decorative corners, all made of white metal alloys, were recovered from two burials. Two corners with scallop shells (symbolic of birth and baptism; Author Unknown 2003) were recovered from Recovery 126B (Figure 5.37). One corner with a decorative scroll was recovered from Recovery 50E. Neither Kogon and Mayer nor Bybee give usage dates for decorative corners.



Figure 5.35. "Hand Clasping Rose" coffin decoration



Figure 5.36 Chinese lotus blossom decoration**Figure 5.37. "Scallop Shell" brackets****UTILITARIAN HARDWARE****Hinges, nails and screws**

The only hinges recovered from the cemetery were two ferrous butterfly hinges from Recovery 93B. The lack of hinges is probably due to the fact that most of the coffins had removable lids that were screwed down, as opposed to attached lids that could swing open or closed.

Approximately 471 nails were recovered from coffins at the cemetery. Most of the nails were so broken and badly decomposed that the method of manufacture could not be positively identified. However, three nails from Recovery 170C were identified as wire nails, used on coffins after 1880 (Bybee 2006).

Several slotted screws were also recovered. The date range proposed for the use of slotted screws on coffins is between the 1850s and the 1900s (Bybee 2006).

Coffins and Caskets

The words “coffin” and “casket” are often used interchangeably to describe any style of burial container, but historically they have been differentiated by shape. Coffins are described as hexagonal burial containers with their widest points at the shoulders. Caskets are described as rectangular burial containers and are the dominant style in use today. The word “casket” actually describes a case for jewelry and other precious items and its use to describe a burial container suggests a euphemism invented by the funeral industry. Crow (2004:36) suggests that the word “casket” refers to the “increased decorative embellishment” on the burial container rather than to the shape of the container itself. Whatever the case may be, Kogon and Mayer (1995:156) state that coffins and caskets were “contemporaneous with each other for up to fifty years”; a mid-nineteenth century ad for a funeral undertaker advertised coffins and caskets for sale separately, suggesting coffins were a less expensive option (Habenstein 1955:244). Similarly, the 1869 Meriden Britannia Company catalog sold “coffin and casket trimmings” (1869:Cover page). In their 1880 catalog, they had switched to using the term “casket” only, suggesting caskets had become the preferred burial container.

Remnants of, or distinct outlines of differently colored soil indicated that hexagonal and rectangular burial containers were found at the cemetery, and the term “coffin” is used throughout the report for the purpose of simplicity. Hexagonal coffins were the dominant burial container shape discovered at the cemetery. Rectangular caskets, widely used by 1849, were the burial containers that were ornately decorated (Bybee 2006). Research data show that hexagonal coffins were rarely decorated and were obsolete by anywhere between the late 1800s and 1930. In Kogon’s and Mayer’s (1995:156) studies, they could find no examples of hexagonal coffins used in the twentieth century.

The fact that so many hexagonal coffins were used after 1879 (when the first Historic Los Angeles Cemetery burials occurred) but more than 30 years after the advent of rectangular caskets is very interesting. Bell (1990:61) states that “discounts [were] given on volume purchases” of coffins and Crow (2004:70) states that mass-produced coffins “appear more frequently in cemeteries located nearer urban centers”. However, keeping a large stock of coffins for more than 30 years seems an unlikely explanation. Los Angeles did not have a large population until the early 20th century so it seems much more likely that the local producers of coffins failed to keep up with the fashion of the times. The suggestion that coffins at the Historic Los Angeles Cemetery were manufactured locally is backed up by the fact that shipping boxes were not recovered. Shipping boxes, the equivalent of today’s concrete vaults, were often used for interstate transportation of coffins and bodies and were usually all buried together (Hacker-Norton and Trinkley 1984). Metal and concrete vaults, first used around the turn of the 20th century, were not recovered either (Bybee 2003).

Standard sizes were the typical wares sold; custom-made sizes were for the wealthy (Bell 1990:63). This is demonstrated by Recovery 88B, in which the individual’s legs were severed at mid-calf, presumably to fit into the coffin; the lower legs and feet were placed near the head.

Few stylistic variations on the standard wooden box were noted. Many of the fragments of Chinese coffins exhibited traces of red paint on the exterior, a color used to frighten evil spirits. Several Chinese burials also contained multiple fragments of flat, ferrous metal and curved metal fragments resembling a rim. It is possible that these are the remains of a cast iron lid or coffin lining. Cast iron burial cases were marketed in the west as early as the 1850s and advertised as being able to preserve the body, protect it against water and vermin, safeguard against contagion and facilitate relocation of the remains (Allen 2002:4). Metal-lined coffins were recovered from the excavations at the California Palace Legion of Honor; it was suggested these were used to seal in viruses and other communicable diseases (Chattan et al. 1997:29). Remains recovered from inside these coffins were better preserved than those recovered from wood coffins. However, metal fragments at the Historic Los Angeles Cemetery were only recovered from Chinese-associated burials and the intent was for the decedent to decompose as rapidly as possible. Therefore the fragments may indeed have been used to protect against communicable disease or may have been an internal metal lid to protect the living from the spirits of the dead until interment (see Chapter 7). Several coffins were painted a cream or yellow color with a red primer. Finally, traces of white paint were found on fragments of several infant coffins, a common practice during that time, meant to symbolize the purity of the child (Allen 2002:6).

CHINESE ARTIFACTS

Many Chinese artifacts were recovered from the cemetery. Most of these artifacts were domestic, including ceramic rice bowls left as offerings at graves. Other artifacts were of a personal nature such as opium paraphernalia, jewelry, coins and gaming pieces. The five material categories associated with Chinese artifacts were ceramic, glass, metal, stone and miscellaneous materials such as fiber and wood.

CERAMICS/TABLEWARE

The ceramic tablewares recovered from the cemetery were made in South China for the Chinese, not for Euro-Americans (Greenwood 1996:68-69). These items represent burial offerings (see Chapter 7).

Chinese rice bowls made up the majority of ceramic tableware artifacts. 165 fragments of 102 bowls were recovered. The minimum number of rice bowls was based on cross-mends recovered from each grave. Most of these bowls were a fine, highly-vitrified stoneware with the Bamboo pattern. The Bamboo pattern prominently features three circles, bamboo and an abstract element representing a dragonfly. This pattern occurs only on rice bowls and is also known by the names “Swatow”, “Dragonfly” and “Three Circles”. Greenwood (1996:70) states that Bamboo is one of the most inexpensive patterns, which explains its abundance at the cemetery (Figure 5.38). Of the 102 bowls recovered, eighty-one could be positively identified as having the Bamboo pattern.



Figure 5.38. Rice bowl with Bamboo pattern

The Four Seasons pattern, considered to be more expensive, occurred once on a smaller rice bowl that also featured a mark on the base that possibly represents the Ching Dynasty (Greenwood 1996:70). The Four Seasons pattern also occurred on a teapot, spoon and a condiment dish (Figure 5.39). It features a center peach and four flowers representing the four seasons.



Figure 5.39. Condiment dish with Four Seasons pattern

The Double Happiness pattern occurred only once on a rice bowl, and it is the only example of the pattern at the cemetery. According to Greenwood (1996:70), Double Happiness was one of the earliest and cheapest patterns, and rare after the 1860s (Figure 5.40). Other rice bowls had no pattern but instead a celadon glaze, considered to be more expensive than the other patterns (Greenwood 1996:142).



Figure 5.40. Rice bowl with Double Happiness pattern

Small, handleless porcelain cups recovered were either wine or small tea bowls. All of these bowls had a celadon glaze. Two bowls had marks on their bases, one the Chinese character for the number ten, the other the Chinese character for the number two. One tea bowl stand, used like a Euro-American saucer but with a hole in the center, was recovered. Both sides were decorated, but the patterns could not be identified.

Two separate teapot lids, one plain and one with an unidentified, blue pattern were recovered. Patterns on Chinese porcelain teapots found included Simple Flower and Vine, Four Seasons and plain white.

One teapot, reconstructed from pieces, has a unique design consisting of two horses sitting on hills with vegetation (Figure 5.41). Photos of this teapot were sent to many experts and no one had ever seen this pattern before. Ceramic expert Andrew Madsen (personal communication 2006) was able to determine that it was consistent with a late nineteenth or early twentieth century export manufactured teapot. The body was likely wheel thrown and the spout molded and applied to the body. Two small pieced "ears" located on the front and rear top would have been the location where a wire handle, or wire and bamboo handle would have been affixed to the top (not unlike many teapots still used in Chinese restaurants today). The shape is consistent with the late nineteenth century at the earliest and the decoration is quite hurriedly painted which is consistent with export wares from this period. The absence of an impressed mark on the base would suggest a pre-1950 date. The primary export kilns were destroyed during a period of internal strife in China in 1853 and were not rebuilt until 1864 and thus the teapot post-dates 1864.



Figure 5.41 Reconstructed teapot with horses on hills pattern

Stoneware food storage jar fragments were recovered, most with a slipped interior and a dark brown-glazed exterior. One storage jar in very good condition was found placed on the lid of a coffin. Also in very good condition was a small jar lid, the interior of which was left plain but the exterior was given a dark brown glaze.

INDULGENCES

Opium-related artifacts recovered from the cemetery included pipe and lamp paraphernalia. Two opium pipe bowls were recovered. The first was a whole, circular, grey-green earthenware bowl

with a polished top and a stem with a grooved flange. It was wheel thrown in one piece with positive-stamped characters on the base and double-incised lines around the base and sides (Figure 5.42). The second bowl was fragmented and was also wheel thrown in one piece. The circular, rose-brown bowl had a slipped interior and no stem. Positive-stamped characters were featured on the base and negative-stamped characters were featured around the sides. None of the characters on either bowl could be identified.



Figure 5.42. Opium pipe bowl

Three metal opium pipe stem connectors were recovered. These were meant to attach the bowl to a saddle, which was then connected to the pipe stem. The only opium lamp pieces recovered were two oil reservoir covers/wick holders. These small, flat pieces of glass had holes in their centers to accept the wicks. One cover was circular, the other octagonal (Figure 5.43).

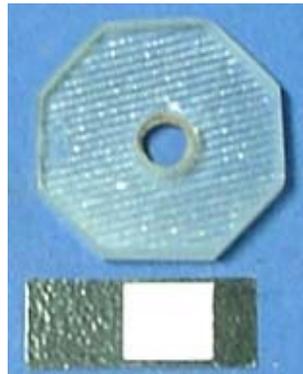


Figure 5.43. Opium lamp oil reservoir cover

Fragments from one Chinese liquor bottle were recovered. These ceramic bottles were round in shape, had short necks and lipped finishes. The exteriors were finished with Tiger glazes.

Eleven glass “Chu” gaming pieces were recovered (Figure 5.44). These pieces average about a half inch (1.27cm) in diameter, are rounded on the top and flat on the bottom. Nine were opaque white. Two appeared black, but when held up to light were green and purple.



Figure 5.44. "Chu" gaming pieces

CLOTHING AND ADORNMENTS

143 fragments of 139 Chinese “ball” buttons were recovered. These were typically round, brass, hollow buttons with loop shanks. They averaged about 0.3 inches (0.76cm) in diameter. They were found to be very fragile, and some had remnants of a fabric covering (Figure 5.45). When used with ball buttons, clothing toggles or frogs are called huaniu. One of these knotted toggles in a clover form was recovered (Figure 5.46).



Figure 5.45. Ball buttons



Figure 5.46. Knotted toggle

Two fragments of a single metal hoop earring were recovered. It was carved with a floral pattern. Recovered from the same burial were three highly-polished, perforated jade discs. Two of the discs were cut from the same stone and were probably meant to slip over hoop earrings. The third disc was similar in color and might have been worn around the neck as a pendant.

Two bangle-style jade bracelets, one whole and one broken, were recovered with interior diameters of 2 inches (5.08cm). One was whole, the other broken in half (Figure 5.47). Another bracelet recovered was almost certainly, at 2.5 inches (6.35cm) diameter and no clasp, a child’s bracelet. A metal charm attached to metal links featured Chinese characters that translated as “Precious, Long Life”.



Figure 5.47. Jade bracelets

GROOMING AND HEALTH

Two Chinese medicine vials were recovered. Both were light aqua-green in color and mouth blown. The blown bodies incorporated the necks and they both had sheared finishes. One vial still had a cork in place and was full of tiny, red pills (Figure 5.48). One wooden, lunate end cap of a Chinese comb was recovered (Figure 5.49).



Figure 5.48. Chinese medicine vial with pills



Figure 5.49. End cap of a Chinese comb

MISCELLANEOUS

One metal, Chinese padlock was recovered from the surface (Figure 5.50).



Figure 5.50. Chinese padlock

COINS

AMERICAN COINS

A total of 39 coins minted in America or another region other than Asia were recovered from the cemetery (Table 5.1). Seated Liberty dimes were the most commonly encountered coin, representing 44% (n=17) of all coins recovered. Jefferson Head nickels, Liberty Head ten dollars, Morgan silver dollars and Washington Head quarter dollars were the least commonly encountered coins, each representing less than 1% (n=1) of all coins recovered. Five coins could not be identified; it was determined that these were not Asian coins but instead either American coins corroded beyond recognition or coins from another foreign origin. Only 3 coins were not found in association with a burial.

Table 5.1. Summary of American/other coins recovered by catalog number

Catalog	Coin	Jefferson Head Nickel	Shield Nickel	Seated Liberty Dime	Seated Liberty Quarter Dollar	Washington Head Quarter Dollar	Seated Liberty Half Dollar	Morgan Silver Dollar	Liberty Head Ten Dollar	Grand Total
15E					1					1
16E	1				1					2
59E	1			2			9	1	1	14
83B				1						1
114B	1									1
117B	1									1
119B	1									1
125B				1						1
126B			1	3						4
132C				1						1
140C			1							1
141C				1						1
158C				3						3
159C				1						1
173C				3						3
EI17C						1				1
EI18C		1								1
RI0338B				1						1
Grand Total	5	1	2	17	2	1	9	1	1	39

Recovery 59E had the highest number of coins at 14. This recovery also had the most variety of coins, with one unidentifiable (probably foreign) coin, one gold Liberty Head ten dollar (Figure 5.51), one Morgan silver dollar (Figure 5.52), two Seated Liberty dimes and nine Seated Liberty half dollars (Figure 5.53). The Liberty Head, Morgan and Seated Liberty half dollars found in Recovery 59E were the only ones of their kind recovered from the Historic Los Angeles Cemetery.



Figure 5.51. Reverse of Liberty Head ten dollar



Figure 5.52. Morgan silver dollar



Figure 5.53. Seated Liberty half dollar

The dates on the coins from recoveries are consistent with the interment dates of the cemetery; none post-date the last interment date. All dates were nineteenth-century, with the earliest definite date being 1851 for a Seated Liberty dime and the latest being 1888, also for a Seated Liberty dime. Other dates for Seated Liberty dimes were 1875, 1853(2), 1876(4), 1883(2), 1873 and 1871(2).

The dates on the two Seated Liberty quarter dollars were 1858 and 1872. The date on the Liberty Head ten dollar was 1880 and the date on the Morgan silver dollar was 1881. The dates on the

Seated Liberty half dollars were 1876(2), 1871, 1872, 1864, 1854 and 1868. The dates on two Seated Liberty half dollars could only be dated to the decade, 1860s and 1880s.

The dates on five coins – two Seated Liberty dimes, one Seated Liberty half dollar and both Shield nickels – were completely illegible. However date ranges for the coins could be narrowed down, as coin designs were changed throughout the years.

Two of the isolate coins recovered, the Jefferson Head nickel and the Washington Head quarter, were modern, having been minted in 1987 and 1982, respectively.

Mintmarks were observed on several coins; the Liberty Head ten dollar and the Morgan silver dollar were both minted in San Francisco, while a Seated Liberty quarter and dime were minted in Philadelphia. A second Seated Liberty dime was minted in New Orleans.

ASIAN COINS

80 Asian coins were recovered (Table 5.2). These consist of one badly deteriorated and indeterminate Asian coin, 57 Chinese coins called wen (Figure 5.54, 5.55) and 22 Vietnamese coins called dong (Figure 5.56, 5.57). All Asian coins have been entered into the California Asian Numismatic Survey at the Department of Anthropology, University of California, Riverside.

Table 5.2. Summary of Asian coins recovered by catalog number

Catalog	Asian coin	Chinese Wen	Vietnamese Dong	Grand Total
83B		4		4
85B		11		11
99B		2		2
116B		1		1
120B		3		3
123B		20		20
125B	1			1
132C			22	22
135C		1		1
138C		1		1
152C		1		1
158C		2		2
160C		3		3
172C		1		1
EI16C		1		1
EI64B		1		1
EI69B		1		1
EI86C		1		1
EI205C		3		3
Grand Total	1	57	22	80



Figure 5.54 Chinese Wen obverse



Figure 5.55. Chinese Wen reverse



Figure 5.56. Vietnamese Dong obverse



Figure 5.57 Vietnamese Dong reverse

Asian coins are not believed to have had any monetary value in California, but were used in many types of talismans such as coin swords, as gaming pieces in games such as fan-tan, as decorations on clothing and baskets, and to perform the medicinal practice of coin rubbing (Akin 1992:59-62). The wen associated with Recovery 123B still had remnants of the red cord used to string them together into a protective charm.

The wen are all brass and as such, many of them are in good condition. The obverses of the wen each have four characters. The top and bottom characters bear the name of the emperor reigning China at the time the coin was minted. The names are not proper names, but instead slogan-like names the emperors chose for themselves at the beginning of their reigns (Akin 1992:58). The reigns represented are those of Xian Feng, Kang XI, Qian Long, Shun Zhi, Jia Long and Dao Guang. The right and left characters translate as “current coin” (Akin 1992:58). In addition, most bear a mint mark on their reverses. The mints represented are Guangzhou, Guangdong, the Board of Revenue, Beijing, the Board of Works, Beijing, Ningbo, Zhejiang, Shandong, Guilin, Guangxi, Baoding, Suzhou, Jiangsu and Yunnanfu, Yunnan. Since the time period of each emperor’s reign is known, a rough chronology is possible. Most of the wen from the Historic Los Angeles Cemetery were from 100-200 years earlier than the first burials (Figure 5.58).

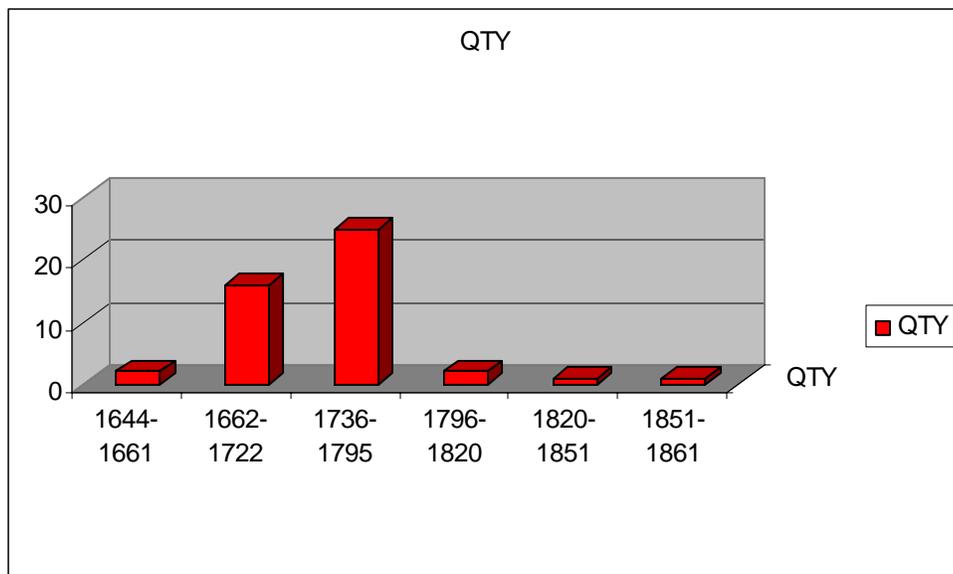


Figure 5.58. Time Periods Represented by Wen

The dong are all zinc and as such are in poor condition. They were recovered from one burial only, 132C (Table 5.2). The dong, like the wen, each bear the name of the reigning emperor at the time the coin was minted and represent the reigns of Gia Long, Minh Mang and Tu Duc. They do not bear mint marks. As with the wen, because the time period of each emperor's reign is known, a rough chronology is possible. The dong from the Historic Los Angeles cemetery were from less than 100 years earlier than the first burials. The three time periods represented by dong are 1802-1820 (n=3), 1820-1841 (n=17) and 1848-1883 (n=2).

OTHER ARTIFACTS

A whole Hutchinson soda bottle was recovered from Recovery 130C (Figure 5.59). This aqua-colored bottle was manufactured on a post-bottom mold with a tooled blob finish. The Hutchinson spring stopper was still in place and the bottle was full of liquid. The liquid was almost certainly rainwater, as sediment was in the bottom and the stopper was replaceable. This style of bottle was manufactured between the mid-1880s and the mid-1910s.



Figure 5.59. Hutchinson soda bottle

Two Prosser, four-hole, dish-style, calico buttons were recovered from Recovery 165C. Calico buttons were printed with designs that matched calico textiles, which featured tiny floral and geometric designs. Both calico fabrics and Prosser process buttons were affordable and popular. What makes the presence of calico buttons at the cemetery somewhat unusual is that they were manufactured between 1849 and 1865 in the United States, long before the first interment date at the cemetery (IMACS 1992).

Also recovered from Recovery 165C was a celluloid pipe bit (Figure 5.60). Celluloid is a very early plastic first manufactured in 1856 from nitrocellulose and camphor. It is very rarely used today due to its high rate of flammability and decomposition, but during the time the cemetery was used, celluloid was highly popular. The pipe bit was a marbled yellow and green color, threaded at the end so that it could screw into the pipe stem.



Figure 5.60. Celluloid pipe bit

An interesting artifact was recovered from Recovery 158C, a personal case made from vulcanized rubber (Figure 5.61). It is possible that this was a cigarette case. The case was in the shape of an ornately-decorated book, with the initials “TPW” crudely carved on the “spine” and the initials “FEU” on the front. The three sides of the case meant to be “pages” all swing out, revealing the interior.



Figure 5.61. Vulcanized rubber case, shown with two sides open

A pair of eyeglasses was recovered from Recovery 7E. The small, oval lenses were set in very thin, ferrous frames. When the individual was interred, the glasses were neatly folded and attached to a suspender clasp.

Several vulcanized, or hard, rubber combs were recovered from the cemetery. These were all simple and utilitarian double-sided or foldable combs. The double-sided comb from Recovery 58E is the most complete. It dates to post-1851, the year Charles Goodyear patented the vulcanization process.

Chapter 6 Here Lies

WHAT THE BONES TELL US ABOUT THE PEOPLE OF THE CEMETERY

Archaeologists value human remains as sources of historical evidence, in contrast to the rich symbolic connotations human skeletons have for most people (Walker 2000:15). Human remains provide information relating to growth, development and disease that are a unique record of life and death in the past (Walker 2000:25).

DEMOGRAPHY

The cemetery's sex and age distribution was dominated by adult males (Figure 6.1). The total sample consisted of 47 males, 35 females, and 50 individuals whose sex was indeterminate. One hundred and twelve individuals were given an age category (Table 6.1). There were no individuals specifically determined to be old adults (over 50 years); therefore, the middle adult category includes all individuals over the age of 35 years. The median age category for the cemetery was determined to be young adult. Approximately 78% percent of the aged individuals lived to be at least a young adult. The small number of infant and child burials is atypical for late nineteenth century cemeteries and is possibly due to preservation biases. Walker and colleagues (1998) found that infants and elderly adults are under represented in osteological samples because they decompose faster than younger adult skeletons. In other circumstances Walker (1995:33) suggested that people of different ages were non-randomly distributed within a cemetery. Documentation associated with this cemetery (burial registers) indicates that Block G was used to inter most infants

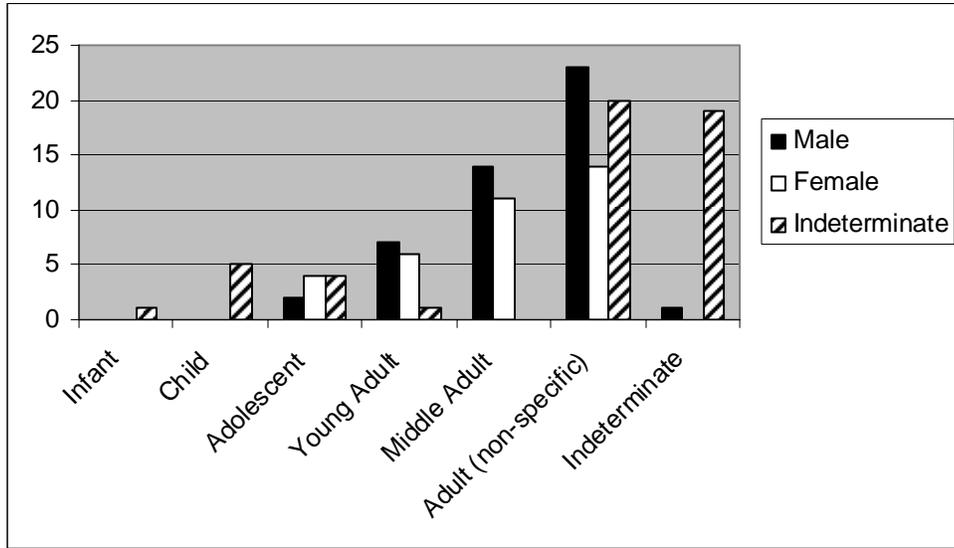


Figure 6.1. Age and Sex Distribution by frequency

Table 6.1. Age Categories by MNI

Age Category	Age Range	Individuals
Infant	Birth to 3 years	1
Child	3-12 years	5
Adolescent	12-20 years	10
Young Adult	20-35 years	14
Middle Adult	>35 years	25
Adult (non-specific)	>20 years	57
Indeterminate		20

Ancestry was assigned to 44 of the individuals recovered. Ancestry was determined by a few specific skeletal characteristics, which explains why only one-third of the individuals' ancestry was determined. The largest ancestral group represented in the cemetery was Asian, followed by Euro-American and Mixed ancestry (Table 6.2). The high number of determinations of Asian individuals is probably due to the location of a unique trait of assessing Asian ancestry that is found on the teeth and teeth preserve better than skeletal material. By examining the sex distribution among the ancestral groups, it is apparent that females are more abundant in the Asian and mixed ancestry groups, whereas they are equal to males in the Euro-American group (Figure 6.2).

Table 6.2. Ancestry by MNI

Ancestry	Individuals
Asian	18
Euro-American	14
Mixed	12

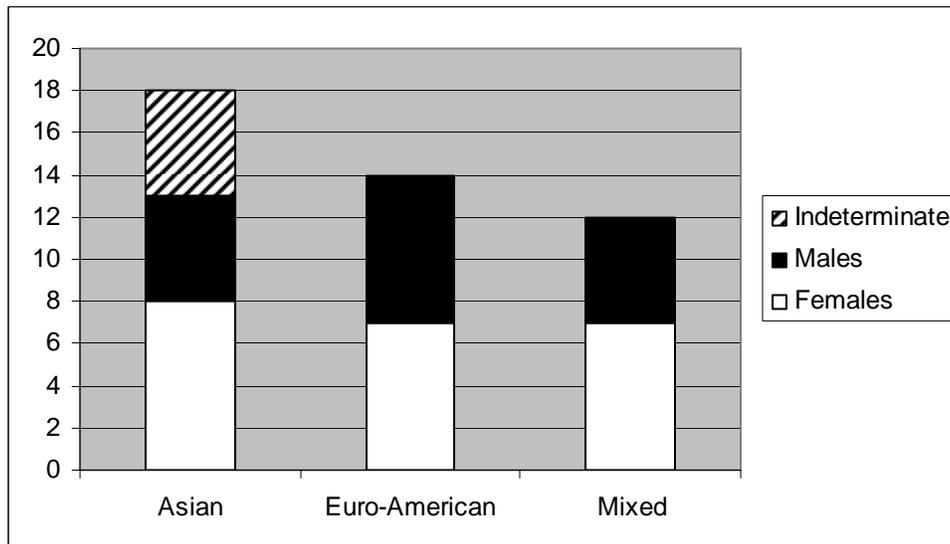


Figure 6.2. Sex and Ancestry Distribution by frequency

HEALTH

Some diseases and trauma individuals are inflicted with during life produce skeletal and dental manifestations. The following is a brief description of the skeletal and dental pathological conditions present in the cemetery population.

The skeletal pathological conditions observed were abnormal bone loss, cribra orbitalia, degenerative disc disease, endosteal bone formation, fractures, osteoarthritis, periosteal bone formation, and porotic hyperostosis. Abnormal bone loss is caused by the destruction and resorption of bone due to trauma, such as a pulled ligament, or infectious disease (Ortner 2003). Cribra orbitalia and porotic hyperostosis are a form of bone resorption that is observed as porous lesions in the eye orbits and on the cranial vault, respectively. They are a non-specific response to nutritional and disease induced anemia (Ortner 2003).

Degenerative disc disease is caused by trauma or habitual stress to the intervertebral disc of the spine (Larsen 1997). It leads to bone resorption of the vertebral bodies that may cause fractures and compression. Periosteal and endosteal bone formation is observed as extra bone growth surrounding the exterior shafts (periosteal) and interior shafts (endosteal) of the long bones. It is caused by the inflammation of the periosteal and endosteal tissue surrounding the surfaces of the bone, which is caused by trauma or infection (Ortner 2003). General periosteal and endosteal reactions are responses to infectious disease. Specific infectious diseases, such as tuberculosis, were not analyzed since their skeletal manifestations have multiple etiologies that complicate their specific diagnosis and because the disease must be far advanced before indicators appear on bone.

Fractures are evident by the presence of a bone callus or extra bone formation surrounding the shaft of the injured bone (Ortner 2003). Sometimes the bone is offset, resulting in abnormal shape or morphology. Osteoarthritis is caused by the inflammation of the synovial joint due to repeated stress or trauma (Larsen 1997). It is manifested in the form of porosity on the joint surface or bone formation resulting in lipping around the joint surface.

The dental conditions observed were dental abscesses, antemortem tooth loss, carious lesions, dental fillings, enamel hypoplasias, extensive dental wear, and enamel pearls. Dental abscesses are caused by inflammation of the pulp chamber due to extensive wear or carious lesions. They are evidenced by the presence of a hole in the alveolus near the apex of the tooth to provide drainage.

Carious lesions, also known as cavities, are eroded areas found on the tooth's enamel caused by a diet rich in carbohydrates and sugars, and indicate poor dental hygiene (Larsen 1997). Large carious lesions may result in the antemortem loss of the tooth. Extensive dental wear is caused by a diet consisting of coarse foods and is evident by the lack of enamel on the occlusal surface of the tooth exposing the dentin. Enamel hypoplasias are defects in the formation of the enamel during the development of the tooth. They can be caused by disease or malnutrition and are present in the form of lines and pits (Larsen 1997).

One hundred and twenty-three individuals were examined for the presence or absence of skeletal pathological conditions and 37% of the population exhibited at least one type of skeletal pathology

(Table 6.3). Males were more commonly affected by skeletal pathologies at 56%, and females at 37%. Examining the distribution of skeletal pathologies among the ancestral groups, Euro-American displayed the highest percentage of 64%, followed by the group of mixed ancestry at 50%, and Asians yielding 33% affected. This suggests the Euro-American males had the highest incidence of skeletal pathological conditions. Kinds of skeletal pathologies are dominated by periosteal bone formation at 15% and osteoarthritis at 10% (Table 6.4).

Out of the 90 individuals examined for dental pathological conditions, 78% were inflicted with at least one type of dental pathology (Table 6.5). The higher percent of individuals with dental pathologies, compared to skeletal pathologies, is probably due to the better preservation of teeth, yielding a higher likelihood of observing dental conditions. The incident rate for males and females were both relatively high at 89% and 90%, respectively. All of the individuals identified as Euro-American or of mixed ancestry exhibited dental pathological conditions and only 72% of Asian individuals had dental pathologies. This differentiation might be due to the ability to determine Asian ancestry based on the structure of some teeth; therefore they generated a higher sample. The highest incident rates of dental pathological conditions were carious lesions at 52%, enamel hypoplasias at 46%, and antemortem tooth loss at 40%. The rest of the conditions were more scarcely distributed throughout the population (Table 6.6).

The stature was calculated for 12 individuals ranging from adolescents to old adults using the complete maximum length of the femora (Figure 6.3). The shortest height was 4 feet and 11.9 inches (152.18 cm) and the tallest was 5 feet and 8.4 inches (173.77 cm). The average height was 5 feet and 5.2 inches (165.68 cm) and the standard deviation was 6.08. Males seemed to be in the taller range and females in the shorter; however it is inappropriate to compare the distribution based on sex and ancestry because the stature formulae are based on those known characteristics.

Table 6.3. Distribution of Skeletal Pathological Conditions

	Presence of Skeletal Pathology	Total
Entire Population	46	123
Female	13	35
Males	26	46
Asian	6	18
Euro-American	9	14
Mixed	6	12

Table 6.4. Presence of Skeletal Pathological Conditions

Skeletal Pathology	Presence	Percent Affected
Periosteal Bone Formation	18	15
Osteoarthritis	12	10
Abnormal Bone Loss	9	7
Cribra Orbitalia	6	5
Endosteal Bone Formation	6	5
Degenerative Disc Disease	4	3
Porotic Hyperostosis	3	2
Fracture	3	2
Total Observed	123	

Table 6.5. Distribution of Dental Pathological Conditions

	Presence of Dental Pathology	Total
Entire Population	70	90
Female	28	31
Males	34	38
Asian	13	18
Euro-American	13	13
Mixed	12	12

Table 6.6. Presence of Dental Pathological Conditions

Dental Pathological Conditions	Presence	Percent Affected
Carious Lesions	47	52
Hypoplasia	42	47
Antemortem Tooth Loss	36	40
Extensive Wear	15	17
Dental Filling	6	7
Dental Abscess	5	6
Enamel Pearls	1	1
Total Observed	90	

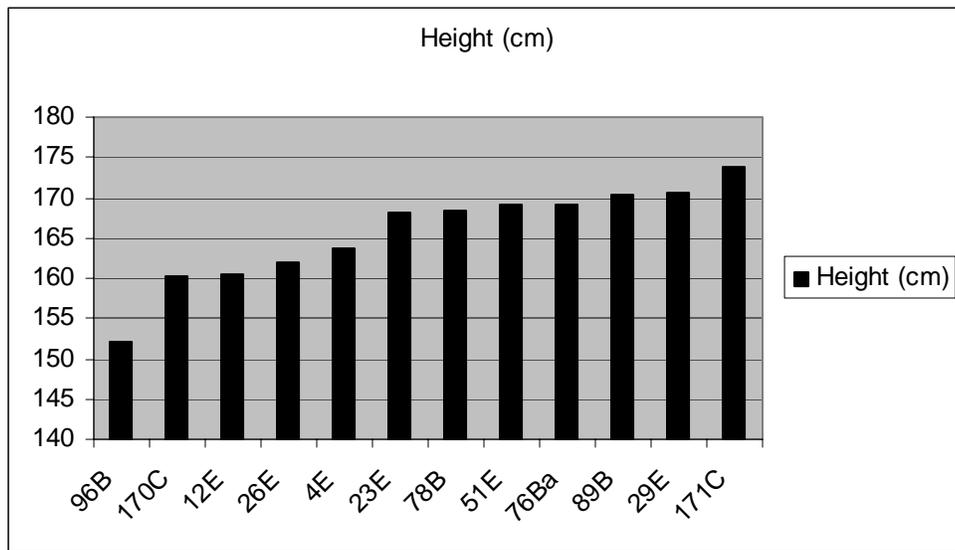


Figure 6.3. Distribution of Stature by Recovery Number

WHAT THE BURIAL RECORDS TELL US ABOUT THE PEOPLE OF THE CEMETERY

Every cemetery in California is now required to keep thorough records of who is buried and where they are buried. Each cemetery has burial registers or logs and a map of the plots. Because the Historic Los Angeles Cemetery had such an unusual and almost casual development process, the burial records vary over time and it is unclear if a map of the plots ever existed.

The Historic Los Angeles Cemetery has 5 burial registers dating from 1880 to 1922. Thereafter, the County Crematorium has a large number of cremation registers dating from 1922 to the present. Both of these types of registers are chronological in organization and include medical waste in addition to burials or cremations. The County Crematorium also has a medical waste register covering the period 1973-1998. The terminal date is when they stopped accepting medical waste. No current or past maps of the burial plots have been located despite diligent searches by County staff and Cogstone researchers.

The Los Angeles County Board of Supervisors has determined that the contents of the burial registers are public information and has directed the Department of Health Services to make them available to the public in a searchable, electronic format. Cogstone input the records from blocks 1 to 5 as part of our research and that information has been delivered to the County in electronic format. Not all information was present in all registers and there were missing pages in some registers. About 1.5 burial registers and many cremation registers will still need to be input by the County before the complete information will be available.

Cogstone reviewed the burial registers in hope of identifying burials, not for sociological analysis. The Cogstone database includes register, page, name, age, sex, race, cause of death, physician, undertaker, block, row, grave, disinterment, and notes for all burials in block 1-5 and for all Chinese regardless of block. It has been edited to standardize terminology especially for racial designations and to update names of medical conditions. In addition, some registers list date of death, some date of interment, some both and some neither. We used date of death when it was available and date of interment when it was not. Please note that before 1930, native Californians with Spanish surnames were classified as white by the U. S. government and thereafter were considered Mexican (Molina 2006:7).

BURIAL REGISTER CONTENT

The oldest burial register is a bound accounting book with “Names in Old Block” printed on the cover. This register has 26 pages with information hand written on them. The first 13 pages have no dates, of death or interment, just names plus row and grave numbers (Table 6.7). The second 13 pages have dates for some names but not for all. While there are no dates in the first part of the register, Cogstone recovered headstones for the first person listed on page 1 and for two of the people listed on page 4. These were T. E. Buzbee whose headstone is dated 1883, Anna Ludemann whose headstone is dated 1880, and Willie Smoot whose headstone is also dated 1883. In addition, in the portion with dates, beginning on page 14, the first entry is 1880 and the second is 1888. The most recent burials in this register are dated 1890. Thus it appears that much of this register was

written not as a chronological record of burials, but as an after-the-fact inventory. No Chinese names are listed in this register.

Table 6.7. Example of First Burial Register Content, Page 4 excerpt

Name	Block	Row	Grave
G Halifax		5	56
Kurt Olsen		5	58
M. J. Brewer		5	59
Grant		5	63
Annie Ludeman		6	6
Willie Smoot		6	7
Milla McHenry		6	25
Jos. Waloh		6	26
Emma Ellis		6	29
W. Wilkeson		6	34
W R R		6	37
D W Dennis		6	38
D Moore		6	43
Oran Lawrle		6	45
Jean Ladre		6	49

The next register contains entries from January 1, 1896 to April 30, 1902. Thus there is a six year gap between the first register and this one. This register is entirely chronological in organization. It has date, name, age, sex, race, cause of death, physician, undertaker, block, row and grave. Block, row and grave are blank on pages 1-9. On page 10 the Block column begins to list 1 and 2 for most entries but row and grave are blank for most. A diversity of people are listed and there are varying charges to their families (Table 6.8).

For example, most of the people listed are male and Caucasian; only one was charged for burial. All four Chinese men were charged for burial. The black teen was also charged. By the end of this register, block, row and grave are always filled in except for Chinese names.

Table 6.8. Example of Second Burial Register Content, Page 6 excerpt

Date	Name	Age	Sex	Race	Notes
3/30/1896	Morris W.R.	33	Male	Caucasian	
3/31/1896	Milo Morrison	18	Male	Caucasian	
4/2/1896	McAdam, John	About 55	Male	Caucasian	\$6
4/2/1896	Miller, John	45	Male	Caucasian	
4/3/1896	Matheson, Annie	38	Female	Caucasian	
4/5/1896	Brookund C.B.	29	Male	Caucasian	
4/8/1896	Johnson, Aceneth C	34	Female	Caucasian	
4/9/1896	Leavitt, Henry W	35	Male	Caucasian	
4/10/1896	Jue Wah	23	Female	Chinese	\$10
4/13/1896	Ah Wey	34	Male	Chinese	\$10
4/13/1896	Davis, Gertrude	13	Female	Black	\$4
4/13/1896	Hawk Leo Too		Male	Chinese	\$10
4/17/1896	Leune Quong	51	Male	Chinese	\$10

The third burial register contains entries from May 1, 1902 to September 29, 1909. Block, row and grave are always filled in except for Chinese names (Table 6.9). An example of early disinterment is shown below where a Chinese woman was disinterred after only one year. There are no notes regarding payments for burial in this register. Note also that graves within a row were not filled in numerical order.

Table 6.9. Example of Third Burial Register Content, Page 188 excerpt

Date	Name	Age	Sex	Race	Block	Row	Grave	Disinterment
3/4/1902	Fred Grant	46	Male	Caucasian	5	27	8	
3/4/1902	Chas M Douglas	46	Male	Black	5	28	2	
3/4/1902	Carl Brecht	35	Male	Caucasian	5	28	6	
3/4/1902	Thomas Smith	31	Male	Caucasian	5	28	7	
3/6/1902	Martin Johansen	54	Male	Caucasian	5	28	8	
3/6/1902	Jesus Torres	42	Male	Caucasian	5	28	9	
3/6/1902	Clarence W Brooks	25	Male	Caucasian	5	28	3	
3/6/1902	H A Harford	33	Male	Caucasian	5	29	2	
3/10/1902	Lim Quong	45	Male	Chinese				
3/10/1902	Toy Sing Howe	37	Female	Chinese				9/10/1903
3/11/1902	Ling Quong Waln	48	Male	Chinese				

The fourth burial register contains entries from October 1, 1909 to July 31, 1918. It shows the continuing evolution of cemetery record-keeping (Table 6.10) with designation of “China” as the block where most Chinese are buried. Fees are once again listed with most Chinese adults charged \$10 and an infant charged \$5. The sole exception is a Chinese man who was buried without charge like all others who died at County Hospital. A large proportion of the Chinese in this register were disinterred. Note the burial of a “college box” of medical waste from the County Hospital.

Table 6.10. Example of Fourth Burial Register Content, pages 482-492, 1918

Name	Age	Sex	Race	Undertaker	Block	Row	Grave	Disinterment	Notes
Woo Wing	45	Male	Chinese	JD Button	China	10	8	6/17/1937	paid \$10
Jung Chuck	62	Male	Chinese	JD Button	China	17	16	6/4/1937	paid \$10
Gen Tong	62	Male	Chinese	JD Button	China	8	2	6/1/1937	paid \$10
Lee Long	50	Male	Chinese	JD Button	China	15	6	6/7/1937	paid \$10
Quen Heng	72	Male	Chinese	JD Button	China	14	8	6/11/1937	paid \$10
Lee Kon	65	Male	Chinese	LA Undertaker Co.	China	27	8	11/19/1925	paid \$10
Woo Qun (Quin)	53	Male	Chinese	JD Button	China	26	14	6/4/1932	paid \$10
Hive Wee	5 mo	Male	Chinese	JD Button	China	31	21		paid \$5
Hop Sing	72	Male	Chinese	Co. Hospital	18	5	1		free
Len Chew	64	Male	Chinese	JD Button	China	22	14	6/21/1937	paid \$10
Philip Wilson	72	Male	Caucasian	Co. Hospital	5	15	0		
Escado Garcia	23	Male	Hispanic	Pierce Bros	5	16	0		paid \$9
1 College Box				Co. Hospital	5	14	0		
Chin Hing	63	Male	Chinese	JD Button	China	22	13	8/21/1924	paid \$10
William Hatch	85	Male	Caucasian	Co. Hospital	5	13	0		

While it may appear that most of the people being buried were Chinese, the sample is biased by including all Chinese but excluding anyone else unless buried in blocks 1-5. This is true for the following register also.

The final burial register contains entries from July 31, 1918 to January 31, 1923. The cemetery records are consistent with those above. Note the American first names of the young Chinese near the bottom of the table. Many Chinese were disinterred as above. The disinterment of Hanna Lew for reburial in Evergreen in 1923 is of special interest. This was about a year after the crematorium began operations and burials at Historic Los Angeles Cemetery ended. It also apparently marked an increase in the number of burial options open to Chinese families in Los Angeles.

Table 6.11. Example of Fifth Burial Register Content, pages 170-190, 1921

Name	Age	Sex	Race	Block	Row	Grav e	Disinterment	Notes
Francisca Velasco	3	Female	Hispanic	5	42			
Wong Sun	58	Male	Chinese	China	31	8	5/29/1937	paid \$10
Baby Rodriguez		Female	Hispanic	5	68			
Fong Gen	56	Male	Chinese	China	13	18	8/12/1937	paid \$10
Leung Toy Chung	76	Male	Chinese	China	22	17	8/13/1937	paid \$10
Sing Kee	65	Male	Chinese	China	24	6	8/13/1937	paid \$10
Yuen Sik Wong	52	Male	Chinese	China	30	4	5/29/1937	paid \$10
Chong Oak Shin	4 days	Female	Chinese	China	24	19		paid \$5
Lew Duck	60	Male	Chinese	China	15	14	6/24/1937	paid \$10
Charley Gue	70	Male	Chinese	China	16	8	8/22/1920	paid \$10
Lem Guey Fong	60	Male	Chinese	China	19	5	6/6/1927	paid \$10
Soo Ho Song	65	Male	Chinese	China	17	7	8/12/1937	paid \$10
Lewie Wing	64	Male	Chinese	China	21	10	6/15/1937	paid \$10
Wong Sing	67	Male	Chinese	China	30	21	5/29/1937	paid \$10
Aug Hoyh	72	Male	Chinese	China	31	15	6/5/1937	paid \$10
Hanna Lew	5	Female	Chinese	China	13	24	7/20/1923	paid \$5; taken to Evergreen
Lee Hee Dick	71	Male	Chinese	China	30	19	6/17/1937	paid \$10
Wong Den	31	Male	Chinese	China	34	17	6/4/1937	paid \$10
Ella Low	1	Female	Chinese	China	10	24		paid \$5
David Fong	19	Male	Chinese	China	31	12	9/25/1929	paid \$10

One additional register book requires explanation. There is a book without a label that is informally called the Chinese book. It appears to be a list of all Chinese buried at historic Los Angeles Cemetery. However, close inspection and comparison reveal it to be a list copied from the registers listed above. Cogstone entered all the data from this book, sorted the database and deleted duplicate entries. We were left with only 21 new records. Thus the list was copied before pages were lost from the original registers (the new superintendent in 1911 specifies the pages missing when the registers were turned over to him – notes attached to the registers). However, many disinterment dates were obtained from the Chinese book that were not present in the original registers. Based on these facts, it appears that the purpose of the Chinese book was to assist disinterment record keeping.

As a final note on the Burial Registers, we attempted to search for the names of the Chinese whose funerals were reported in the local press in the late 19th and early 20th centuries (Chapter 4) to no avail. There were zero matches for names or dates. This is probably a complex result of Chinese

fronting easy-to-pronounce names to Americans, associations reporting false names for those in the country illegally and very casual recording practices of both physicians and cemetery personnel.

REPRESENTATION

The racial composition of the burial population can be compared to the racial composition of Los Angeles County (Table 6.12). For this purpose the historic Los Angeles Cemetery sample was limited to the first two registers that were entirely entered into the database and the County sample was limited to the 1890 and 1900 census records (Molina 2006:7).

Blacks are the only group represented in proportion to their numbers in the county. Caucasians are underrepresented. This must be partially due to the fact that native Californians of Mexican descent were classified as white before 1930 and were likely to have been preferentially buried in Catholic Cemeteries. The same factor is probably at work in the case of Hispanics (foreign-born Mexicans, per census classifications). Chinese are dramatically over-represented as this cemetery was their only burial option.

Table 6.12. Racial composition of samples

	%Historic Los Angeles Cemetery	% County
Black	3	3
Caucasian	66	93
Chinese	29	2.7
Hispanic	0.5	1
Japanese	0 * less than .001	0 * less than .01
	1896 to 1902 registers only	1890 & 1900 censuses only

Restating this information in another format – the ratio of each major group buried in the cemetery to those alive in the County at the time – shows the same pattern; for Chinese the ratio was 1:11, for Blacks 1:119 and for Caucasians 1:265. Racial minorities do not dominate the cemetery. Instead there are two whites for each minority person.

Since the Los Angeles Cemetery was the only place Chinese could be buried from 1885 to 1922, the representation of each sex was explored. Anti-Chinese immigration legislation targeted Chinese women in particular. In 1880 only 52 of the 612 Chinese in Los Angeles were women and in 1900 only 120 of the 2143 Chinese were women (Kwok 1979:8-9). Immigration restrictions were relaxed in the early 20th century.

The sample for which sex and burial year are known totals 1127 Chinese of which 56 are women and 1071 are men (136 records are missing burial year information). The number of deaths is variable from year to year for both sexes (Figure 6.4). The number of deaths of Chinese women, in five year increments, was 15, 8, 7, 19 and 9.

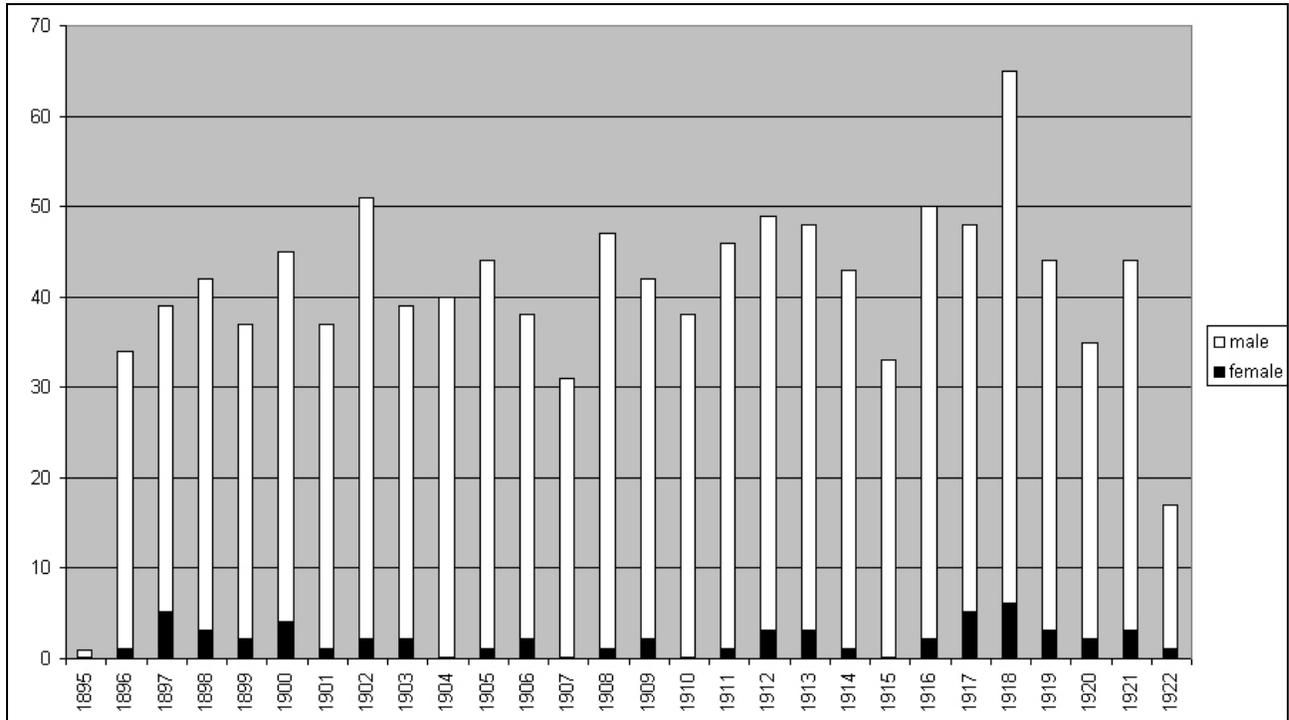


Figure 6.4. Chinese deaths by year

CAUSE AND AGE OF DEATH

The recorded causes of death for the people buried at the cemetery appear to have come from death certificates. Arcane terms for medical conditions, appropriate to the period of time, are prevalent in the registers. Some 376 separate causes of death are listed but were grouped to illustrate the major categories (Table 6.13). Lung diseases caused 35% of deaths. Of that total, 80% were from tuberculosis and 20% from pneumonia. Heart disease caused 10% of deaths and kidney disease 5%. Cancer, suicide, and accidents of all types (mostly railroad) caused 3% each. Infants died from stillbirth, failure to thrive and premature birth totaling 6%.

Table 6.13. Causes of Death in the Burial Population

Disease/Cause	Percent
Lung	35
Heart	10
Kidney	5
Cancer	3
Suicide	3
Accident	3
Infant Deaths	6

Age at death information was also grouped to illustrate the sample trends. Infants had a high death rate but the number of old people was very low (Figure 6.5). Instead, young to middle aged adults

dominate the death assemblage. This is certainly related to the incidence of tuberculosis in the sample.

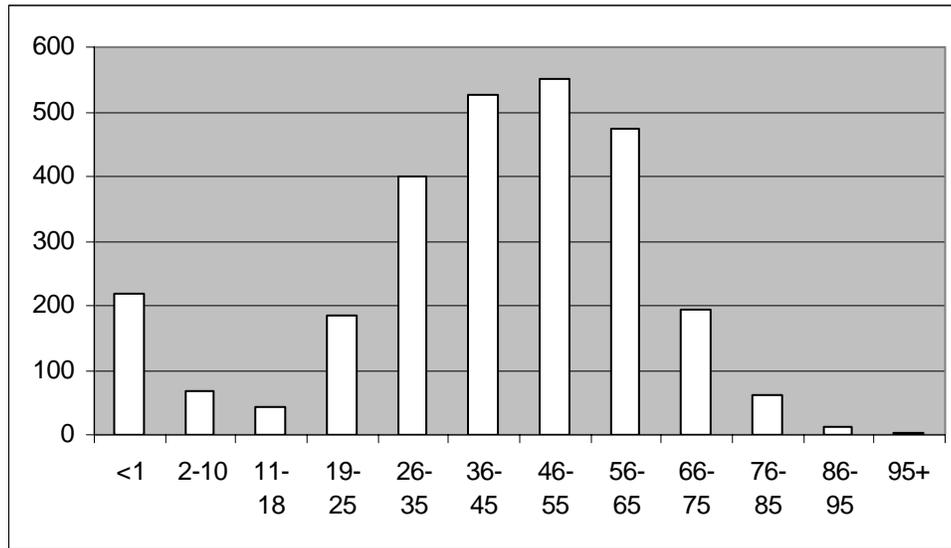


Figure 6.5. Age at Death in the Burial Population

DISINTERMENTS

A variety of people were exhumed from the historic Los Angeles Cemetery over its recorded history. Most were reburied at Evergreen as noted in the registers. Several were reburied at Calvary, the Catholic Cemetery. One each was reburied in Santa Ana, the Serbian Cemetery and Lawrence, Massachusetts. These may represent rapid burials of infectious disease patients from County Hospital that were later claimed by their families.

Most of the disinterments were of Chinese burials. As noted in Chapter 4, the Chinese had religious reasons to return the bones of the deceased to China. Disinterments were noted in the registers from 1897 to 1945 at historic Los Angeles Cemetery (Figure 6.6). The count varies from year to year but the large numbers in 1937 represent many months of daily disinterments noted in County records and the local newspapers. Of the 1263 Chinese buried at the cemetery, 853 were disinterred.

While religious tradition called for return of the bones of deceased males to China, the burial registers indicate women and children were also returned home. Of the 56 Chinese females buried in the cemetery, 25 were disinterred (Figure 6.7). Five children less than one year old, five children aged 1-5, four young teens aged 11-15 and seven young adults aged 16-21 were disinterred.

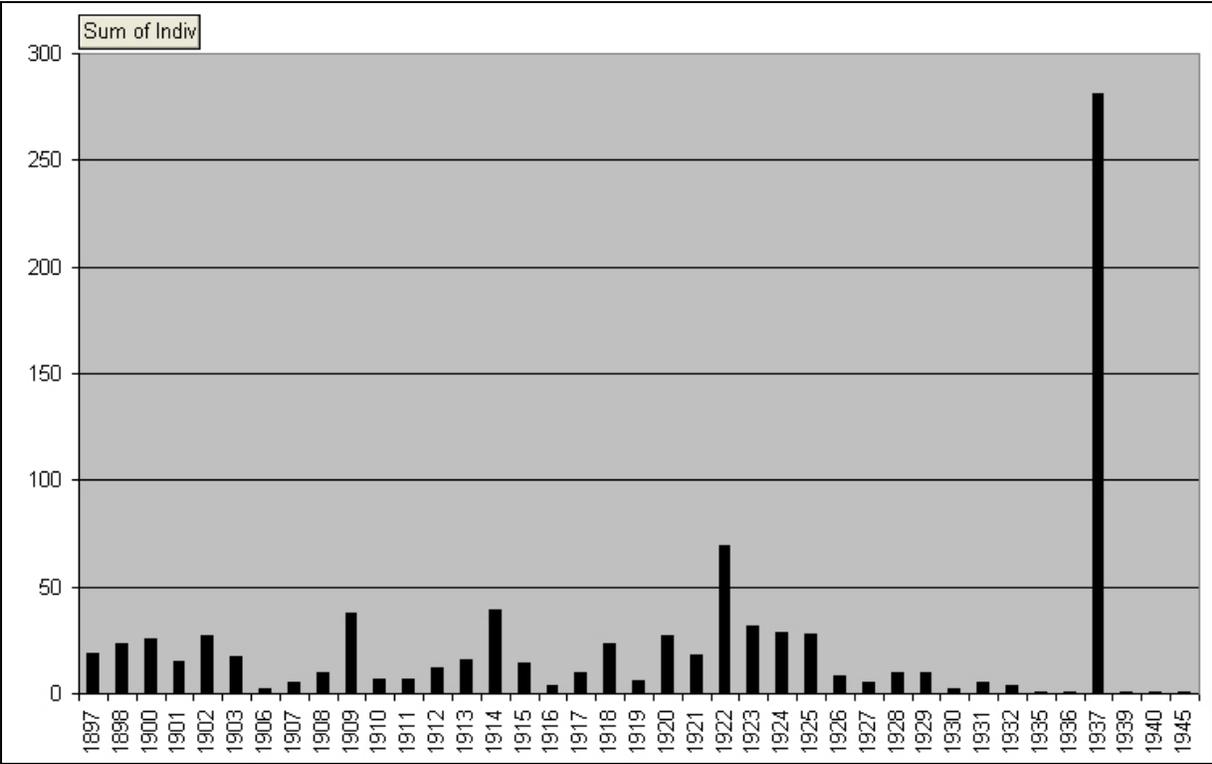


Figure 6.6. Chinese Disinterments by Year

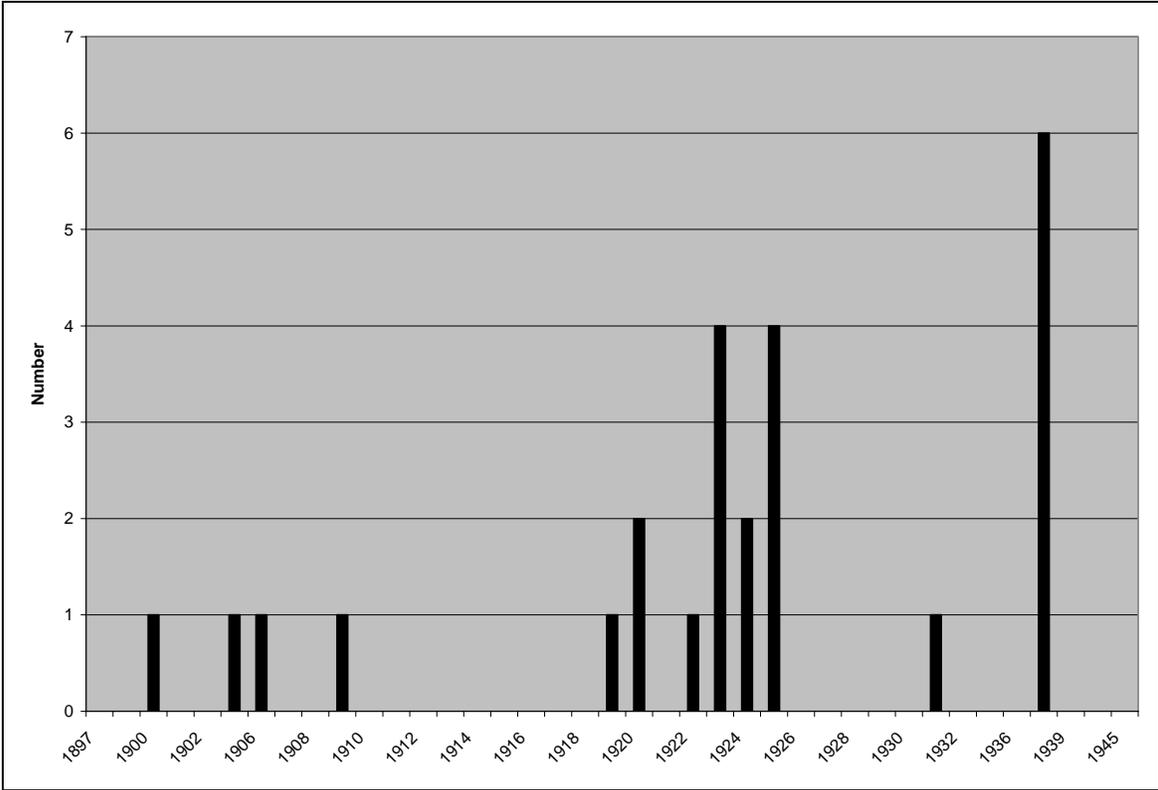


Figure 6.7. Chinese Female Disinterments by Year

Chapter 7 Comparisons

WITHIN HISTORIC LOS ANGELES CEMETERY

For the purposes of this section, recoveries were considered to be Chinese based on the presence of Chinese artifacts and/or the determination of Asian ancestry during the osteological analysis (Table 7.1). Euroamerican and unknown determinations were grouped as non-Chinese for these comparisons.

Table 7.1. Recoveries by Determined Category

Determinations	Count
Chinese determinations	
Asian skeletons	18
Mixed skeletons	1
Euroamerican skeletons	1
Indeterminate skeletons	22
Chinese artifacts only	28
Euroamerican determinations	
Euroamerican skeletons	13
Unknown determinations	
Mixed skeletons	10
Indeterminate skeletons	65
Western artifacts only	19
Coffin frags or soils only	6
Medical Waste determinations	14

The overview of major artifact classes from non-Chinese burials and Chinese burials shows many similarities (Figure 7.1). Coffin parts and materials dominate both, followed by buttons (clothing). Chinese burials had many more food-related artifacts, more miscellaneous containers, shoes and social drugs.

The majority of artifacts are associated with Chinese burials (Table 7.2). Non-Chinese burials, although present in greater number, have fewer artifacts (Table 7.3).

In the mortuary category, the biggest similarity between Chinese burials and non-Chinese burials is the prevalence of coffins and coffin hardware. Both groups were interring their dead largely in wood, hexagon-shaped burial containers and using the kind of ornate, inexpensive and mass-produced coffin hardware that was widely available at the time. Both groups used most types of coffin hardware, including swing bail handles, short bar handles, thumbscrews, escutcheons, viewing windows and stamped tin coffin studs. The Chinese selected more short bar handles, a

greater number of coffin studs per coffin and lotus blossom ornaments. The Chinese also selected red paint on some coffins.

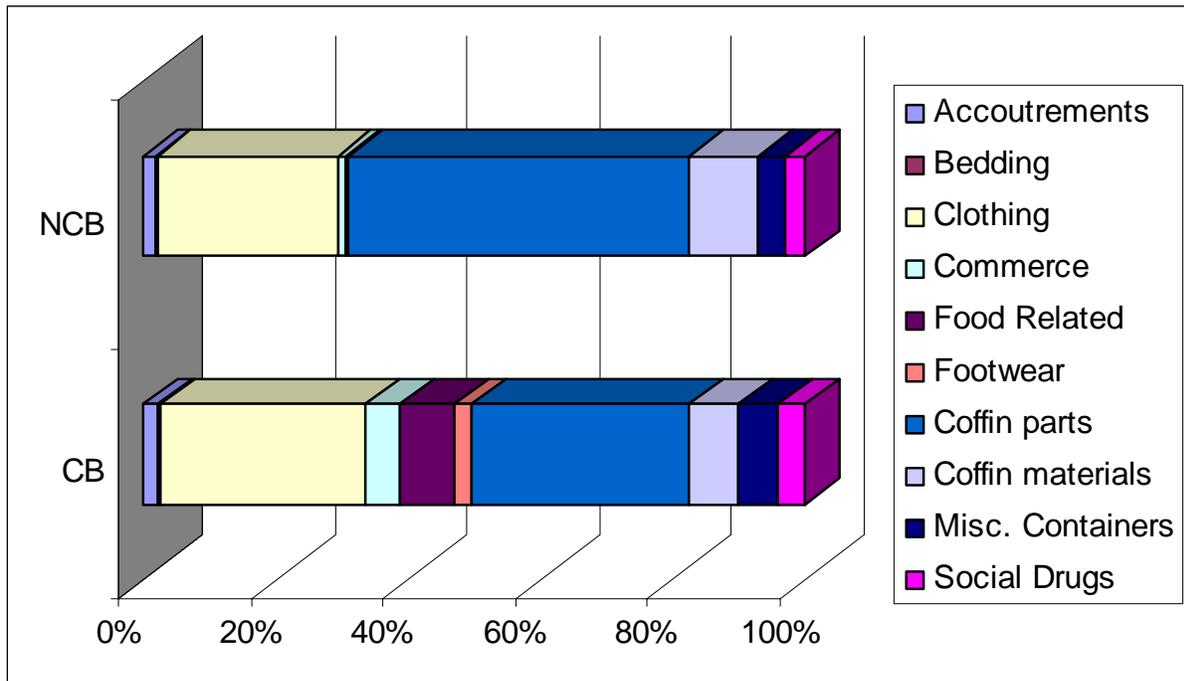


Figure 7.1. Comparison of artifacts from Chinese and Non-Chinese Burials

Table 7.2. Distribution of artifacts from Chinese burials by class and category

	Activities	Domestic	Indefinite	Mortuary	Personal	Structural	Grand Total
Accoutrements					39		39
Activities					2		2
Bedding					4		4
Clothing					530		530
Commerce	90						90
Entertainment	12						12
Firearms	8						8
Food Related		142					142
Footwear					42		42
Furnishings		16					16
Grooming/Health					5		5
Coffin Hardware				564		1	565
Coffin Materials				125		1	126
Misc. Beads			10				10
Misc. Closures			2				2
Misc. Containers			106				106
Misc. Metal Items			17				17
Social Drugs					67		67

Tools	6						6
Grand Total	116	158	135	689	689	2	1789

Table 7.3. Distribution of artifacts from Non-Chinese burials by class and category

	Activities	Domestic	Indefinite	Mortuary	Personal	Structural	Grand Total
Accoutrements					24		24
Bedding					2		2
Clothing					355		355
Commerce	19						19
Firearms	1						1
Food Related		4					2
Footwear					3		3
Grooming/Health					24		24
Coffin Hardware				667		2	669
Coffin Materials				139			139
Misc. Containers			53				53
Misc. Metal Items			3				3
Reading	2						2
Social Drugs					37		37
Tools	1						1
Toys					2		2
Unidentified					2		40
Grand Total	23	4	56	806	449	2	1376

The second greatest similarity between Chinese burials and non-Chinese burials is in the personal category and includes buttons. Next to coffin hardware, buttons accounted for the majority of artifacts recovered from both types of burials. Chinese burials often contained the non-Chinese types of ceramic or metal buttons often recovered from non-Chinese burials. Some of these Chinese burials contained only non-Chinese buttons and other western-style clothing-items such as metal rivets and suspender clasps, suggesting that the individuals had been interred in non-traditional attire. However, many Chinese burials contained both non-Chinese clothing items and Chinese “ball” buttons, suggesting that the individuals had been interred in a combination of traditional and non-traditional attire. Finally, some Chinese burials contained only Chinese clothing items, including “ball” buttons and in one case, a toggle.

Another similarity between Chinese burials and non-Chinese burials is the use of coins in burials. non-Chinese burials were found to contain US coins, mostly Seated Liberty dimes. Chinese burials were found to contain both Asian and US coins, mostly wen and Seated Liberty dimes. Although both types of burials contained coins, it is likely they did so for different reasons. The use of coins in non-Chinese burials may have been used to show perceived wealth, while the use of coins in Chinese burials may have had talismanic purposes.

There were two major differences between Chinese burials and non-Chinese burials. The first was the inclusion of personal effects. non-Chinese burials did not contain many personal items, but those present included a clay pipe, a pair of eyeglasses, combs and pocketknives. In contrast,

Chinese burials contained a variety of personal effects, including opium and tobacco paraphernalia, jewelry, a photograph, a medicine vial and gaming pieces.

The second major and most noticeable difference between Chinese burials and non-Chinese burials was the inclusion and offerings of food-related artifacts in Chinese burials. Chinese burials included many different types of food-related artifacts, both of Euro-American and Chinese manufacture. A variety of Euro-American liquor and soda bottles, Euro-American spoons and a cast iron pot were recovered from Chinese burials. Also recovered were an even wider variety of Chinese ceramics including rice bowls, wine bowls, a tea bowl stand, teapots, food storage containers and a spoon representing at least five patterns and including celadon. In stark contrast, non-Chinese burials showed only a few pieces of evidence of food-related offerings or inclusions and included liquor bottle glass and ceramics.

DEMOGRAPHY AND HEALTH

Age categories were assigned to 35 of the Chinese and 69 of the non-Chinese determinations (Figure 7.2). Adults dominate both populations; however, subadults make up 16% of the non-Chinese burials and only 7% of the Chinese burials.

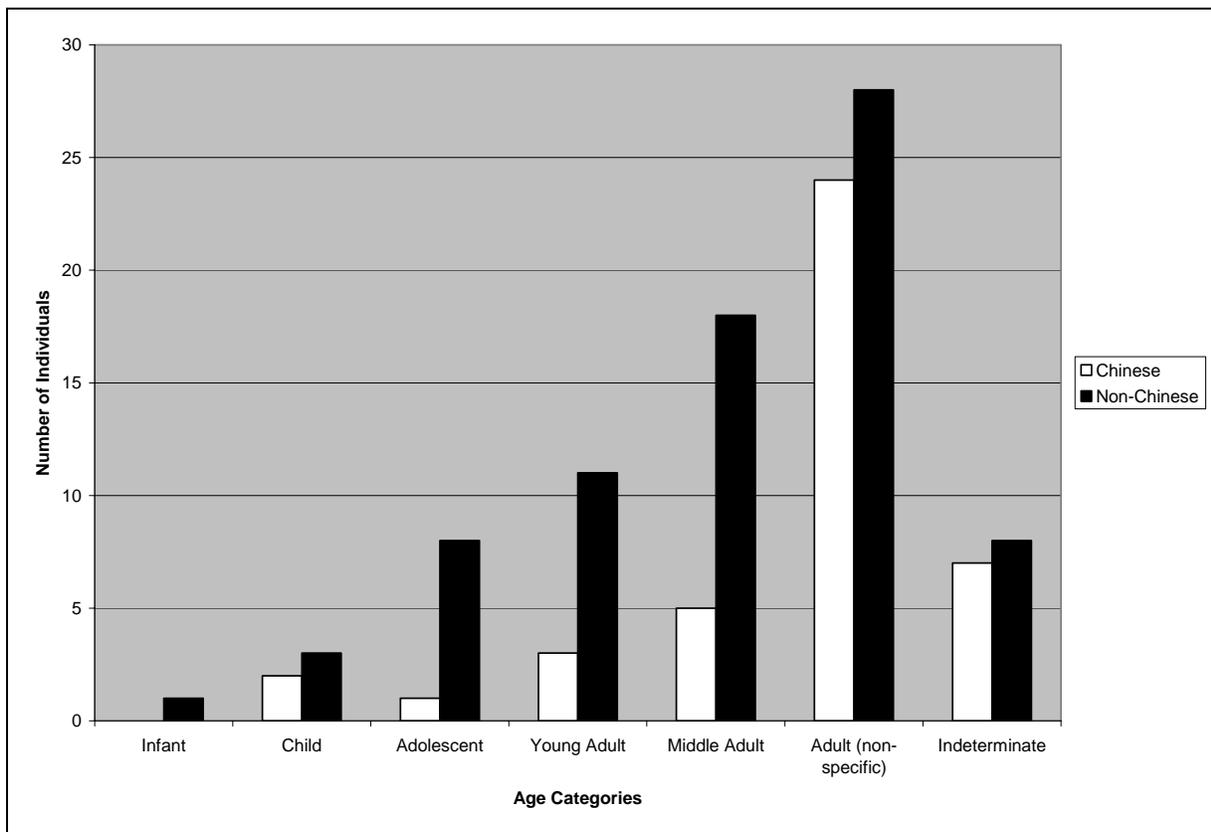


Figure 7.2. Age Distribution of Chinese and non-Chinese Burials

Females represent approximately 30% of both the Chinese burials and non-Chinese burials (Figure 11.3). Males make up a larger proportion of the non-Chinese burials at 40% and only 26% of the Chinese burials. Sex could not be determined for 19 of the Asian skeletons and 24 of the non-Chinese skeletons.

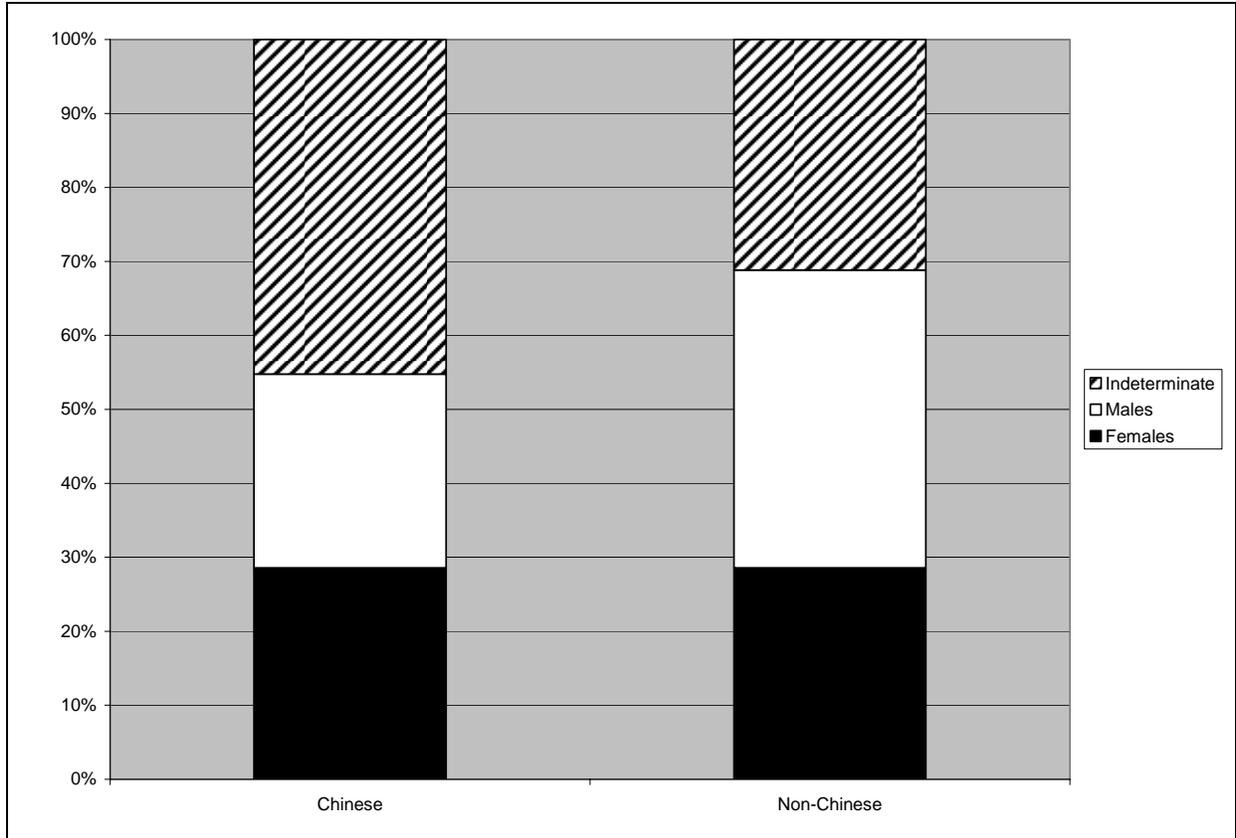


Figure 7.3. Sex Distribution of Chinese and non-Chinese burials

Stature was calculated using mathematical formulas based on the age and ancestry of the individual (Trotter 1970 and Jantz 1992). This makes statistical comparisons invalid. Also only a few skeletons were well-preserved enough to be included (4 Chinese burials, 7 non-Chinese burials). The average height of the adult Chinese skeletons was 164.35 cm (Table 7.4). The average height of the non-Chinese skeletons was 166.99 cm. Of these non-Chinese skeletons, two of them were adolescent, which may have decreased the average height.

Table 7.4. Average Heights in Centimeters of the Chinese and Non-Chinese Burials

	Chinese		Non-Chinese	
		Total		Total
Female	160.27	1	161.43	2
Male	165.71	3	169.21	5
Total	164.35	4	166.99	7

The non-Chinese population had a higher percentage of individuals affected by the presence of skeletal and dental diseases (Table 7.5). The presence of skeletal and dental pathological conditions was determined by the number of individuals with at least one condition present. Of the 74 non-Chinese burials examined for skeletal pathological conditions, approximately 47% were affected. Of the 38 Chinese burials examined for skeletal pathological conditions, only 26% were affected. The non-Chinese burials suffered double the amount of infectious disease, arthritis, anemia, and traumatic injuries. The non-Chinese also had a higher incidence rate of dental disease. In the non-Chinese population, five of the subadults had diseased skeletons and six had diseased teeth. The higher incidence of disease skeletons and teeth found among the non-Chinese population suggests they had a difficult life and were exposed to more disease and malnutrition than the Chinese population.

Of the 56 non-Chinese burials examined, approximately 86% were affected by some dental pathological condition. A little less than 65% of the Chinese burials was inflicted with a dental pathological condition. The incidence rate for both populations are relatively high; however, the non-Chinese burials had a lower rate of cavities, tooth loss, and enamel defects caused by nutritional stress during the developmental years. Of the three subadult Chinese individuals, none had any skeletal or dental diseases.

Table 7.5. Presence of Skeletal and Dental Pathological Conditions

	Chinese		Non-Chinese	
	Percent	Total	Percent	Total
Skeletal Pathology Presence	26.3	38	47.3	74
Dental Pathology Presence	64.5	31	85.7	56

SPATIAL DISTRIBUTION

The distribution of Chinese and non-Chinese artifacts associated with graves is illustrated (Figure 7.4). Area E is notable for the lack of Chinese artifacts in spite of the presence of Asian skeletons. Areas B and C have many disinterments with Chinese artifacts and a mixture of Chinese burials and non-Chinese burials.

The distribution of burials by age and sex (Figure 7.5) does not show any restrictions of burial placement based on these factors. Area E has a relatively high number of female burials, especially in the three rows nearest 1st Street.



Figure 7.4. Grave Distribution by Categories of Artifacts and Skeletons



Figure 7.5. Grave Distribution by Age and Sex

NINETEENTH CENTURY INDIGENT CEMETERIES

The Golden Gate Cemetery, thought to have been in use between the late 1860s and 1911, was an unaffiliated cemetery set aside for the poor, the unknown, the Chinese and medical waste akin to the Historic Los Angeles Cemetery (Chattan et al. 1997:4, 12). After 1911, the cemetery was moved outside of the city limits and the California Palace of the Legion of Honor was constructed within the former boundaries in the early 1920s. When the building began undergoing seismic retrofit and expansion construction in 1989, it became clear that not all of the Golden Gate Cemetery had been relocated. Seven hundred fifty-one burials were archaeologically excavated from impact areas for new construction. Of those, 34 were identified as Chinese.

These two cemeteries, Golden Gate Cemetery and the Historic Los Angeles Cemetery, are important additions to knowledge of the health status of historic Californians since so few non-Native American skeletal samples exist from the time period and area (Buzon et al. 2001). The Golden Gate Cemetery skeletal population closely resembles that of the Historic Los Angeles Cemetery, but only 90 adult skeletons of European ancestry were sampled for analysis.

MORTUARY COMPARISONS

Hexagonal coffins were recovered from the Golden Gate Cemetery, but other burial containers were described as “rectangular wood boxes” instead of caskets for reasons unknown (Chattan et al. 1997:30). Dimensions of adult coffins did not vary and it was observed that taller individuals “were pushed into the six foot long coffins” (Chattan et al. 1997:29). Coffins at the Historic Los Angeles Cemetery, however, did vary and there was only one instance of an individual being made to fit into a smaller box. Metal-lined coffins were also recovered from the Golden Gate Cemetery. It was thought that these were used to protect against communicable disease, but it should also be noted that metal-lined coffins and caskets were marketed as preserving the deceased (Chattan et al. 1997:29; Allen 2002:4). Intact coffins of this type, when opened during the Palace of the Legion of Honor Excavations, revealed individuals with soft tissue and hair preserved. None of the metal-lined coffins were associated with Chinese burials or with individuals interred with grave goods indicating any kind of wealth, real or perceived. This may indicate a hasty burial because of communicable disease. At the Historic Los Angeles Cemetery, several coffins associated with Chinese burials were excavated with many fragments of flat, ferrous metal that could possibly have been the remains of metal lining. The individuals who were still interred with this metal did not show better preservation. While not clearly stated in the text, it can be inferred from the report and from photos that the coffins at the Golden Gate Cemetery were more intact than those at the Historic Los Angeles Cemetery.

Unfortunately, coffin hardware recovered from the Golden Gate Cemetery was only given a passing reference in the report. A sketch of a Chinese burial illustrates placement of “coffin ornaments”

(Chattan et al. 1997:45). These are almost certainly stamped tin coffin studs, many of which were found on both Chinese and Euro-American coffins at the Historic Los Angeles Cemetery. The sketch also shows many studs placed around the coffin. At the Historic Los Angeles Cemetery, it was found that many studs were placed on the Chinese coffins as well, while the use of studs on Euro-American coffins was minimal. Other mention of coffin hardware appears in the list of associated artifacts. These include a Chinese burial with metal flower decorations on the head and footboards, a coffin with six handles and hinges and another coffin with one handle.

Only two bricks were recovered from the Golden Gate Cemetery. The first was found lying on top of a coffin and includes the maiden and married names of the individual, her birth date, the time and date at which she died and her home village. The second brick was recovered as an isolate and also had the maiden and married names of the individual. The opposite side of the brick was interesting in that it included depictions of bats (symbols of longevity and prosperity) and a symbol (*shou*) for longevity. No symbolism was found on any of the burial bricks at the Historic Los Angeles Cemetery but they included the name and village of each person and sometimes additional information.

CULTURAL COMPARISONS

As at the Historic Los Angeles Cemetery, excavators at the Golden Gate Cemetery recovered a variety of personal items identified as grave goods. Personal artifacts recovered from both were cartridge cases, safety pins (possibly for burial shrouds), buckles, shoes, eyeglasses, a clay pipe, hair combs, a frog fastener, an opium pipe bowl, jade bracelets, jade and metal earrings, glass vials, coins and buttons. Unlike the Historic Los Angeles Cemetery, none of the coins recovered from the Golden Gate Cemetery were Asian, although some of the Chinese burials contained US coins.

Another glaring difference between the Chinese sections at the cemeteries is the absence of food-related artifacts at the Golden Gate Cemetery. While the number of Chinese burials recovered at the Golden Gate Cemetery is small, the isolated Chinese porcelain fragments and a Chinese stoneware vessel in a burial that were present do not represent the quantities that were likely present at the time of burial. It seems likely that these were removed by the original construction activities at the Palace of the Legion of Honor.

Buttons recovered from the Golden Gate Cemetery were found to be made from milk glass, clear glass, black glass, metal, bone, antler, shell, metal covered in fabric, ceramic and rubber. Many of these materials were also present at the Historic Los Angeles Cemetery.

Some of the relatively common artifacts attributed to Euro-American individuals at the Golden Gate Cemetery that were not present at the Historic Los Angeles Cemetery include Catholic jewelry (crucifixes, rosaries and medals), other types of jewelry (rings, watch fobs, cuff links) and medical devices. All of the jewelry was made from inexpensive materials. Sources indicate that the family of the deceased would have kept more valuable items (Bybee 2003).

The presence of medical devices is evidence of access to health care. Dentures were recovered from eight burials, a gold tooth was recovered from one burial and seven individuals were recovered with gold fillings. Eyeglasses, two leather stump covers for amputated legs, crutches, and a jaw prosthesis were also recovered. In comparison, one pair of eyeglasses and gold fillings in

one individual were recovered from the Historic Los Angeles Cemetery. Perhaps some of these 15 individuals from the Golden Gate Cemetery represent once prosperous people who either died or lost their property/livelihood in the 1906 quake and fire. Alternatively, San Francisco may have offered more access to health care than Los Angeles.

HEALTH COMPARISONS

Almost 65% of the Euroamericans at the Historic Los Angeles Cemetery had systemic skeletal pathologies compared to 33% of Asians. Comparison shows that the Euroamerican population of the Golden Gate Cemetery had lower incidence of these types of skeletal pathologies (Table 7.6). General periosteal reaction, an indication of infectious disease (Ortner 2003) was prevalent in all populations. The Euroamericans of the Historic Los Angeles Cemetery have high frequencies of cribra orbitalia and porotic hyperostosis, an indication of anemia (Ortner 2003). The Asian population at the Historic Los Angeles Cemetery has much less anemia but presence of osteoarthritis in 17% of the Asians indicates generalized stress to the joints caused by habitual activities such as labor (Larsen 1997). There is an abnormally high frequency of fractures at the Golden Gate Cemetery that Buzon and colleagues (2001) attribute to a high rate of interpersonal violence among the San Francisco working class population. However, this could also result from traumas due to the 1906 earthquake and fire.

Table 7.6. Comparison of Skeletal Pathologies

	Historic Los Angeles Cemetery Euro-American		Historic Los Angeles Cemetery Asian		Golden Gate Cemetery Subsample (Buzon et al. 2001)	
	Percent	Total	Percent	Total	Percent	Total
Skeletal Pathology Presence	65	14	33	18	n/a	
General Periosteal Reaction	34	14	28	18	21	90
Cribra Orbitalia	29	14	6	18	8	7
Porotic Hyperostosis	7	14	6	18	3	74
Osteoarthritis	7	14	17	18	n/a	
Fracture	0	14	0	18	38	90

There is a relatively high frequency of dental pathological conditions among all the populations (Table 7.7). The high presence of carious lesions and antemortem tooth loss among all the populations except for the Historic Los Angeles Cemetery Asian subsample is due to poor dental health caused by a high sugar and carbohydrate diet (Ortner 2003). Dental abscesses may also occur when carious lesions go untreated (Ortner 2003). There is a relatively high incidence of abscesses in the Golden Gate Cemetery subsample and a moderate incidence among the Historic Los Angeles Cemetery Asian subsample.

There is a significantly high incidence of enamel hypoplasias in the Historic Los Angeles Cemetery Asian subsample, an indicator of stress during the developmental years (Larsen 1997), possibly related to impoverished childhoods in China. The Euroamericans, both the Golden Gate Cemetery and the Historic Los Angeles Cemetery, have lower rates.

Table 7.7. Presence of Dental Pathological Conditions

	Historic Los Angeles Cemetery Euro-American		Historic Los Angeles Cemetery Asian		Golden Gate Cemetery Subsample (Buzon et al. 2001)	
	Percent	Total	Percent	Total	Percent	Total
Dental Pathology Presence	100	13	72	18	88	90
Cariou Lesions	77	13	39	18	43	80
Antemortem Tooth Loss	77	13	39	18	80	76
Enamel Hypoplasia	39	13	61	18	50	58
Abscess	0	13	11	18	34	80

NINETEENTH CENTURY CHINESE CEMETERIES

Virginiatown was a mining camp established in western Placer County near Auburn in the mid-19th century. The camp was typical of the other camps that sprung up all over California after the discovery of gold in 1848 and like these camps, the Chinese had a large presence that was quickly segregated to a “Chinatown” outside the limits of the camp. Three Chinese cemeteries are known from Virginiatown but all individuals had been disinterred. The Chinese skeletons were removed and returned to China in the late 19th or early 20th centuries. Open graves and piles of artifacts were visible under vegetation when archaeologists began excavation of two of the cemeteries (Numbers 1 and 3) in 1992. These excavations provide valuable information for comparison to the Chinese section at the Historic Los Angeles Cemetery.

MORTUARY COMPARISONS

Both rectangular caskets and hexagonal coffins were recovered from the Virginiatown cemeteries. Caskets were the only burial containers recovered from Cemetery 3; as at the Historic Los Angeles Cemetery however, caskets and coffins were recovered from Cemetery 1. The construction and the average sizes of the burial containers at Virginiatown are similar to those at the Historic Los Angeles Cemetery. Rouse (2002:25) notes that some of the containers were actually preserved well enough to be reconstructed. However most of them were badly deteriorated or had completely decomposed, as was seen at the Historic Los Angeles Cemetery.

Although the type of hardware recovered from Virginiatown was similar to that recovered at the Historic Los Angeles Cemetery, the quantity was vastly different. At Virginiatown, ornate swing bail handles were recovered, although there were very few. Thumbscrews and escutcheons were also recovered from Virginiatown, again, in small numbers. An acorn and leaf-design swing bail handle and a thumbscrew and escutcheon set recovered were exactly the same as a few of those found at the Historic Los Angeles Cemetery.

Rouse (2002:25) suggests that the same thumbscrew and escutcheon design was found in three other burials because it was a popular design. A larger sample from the Historic Los Angeles Cemetery shows that no one design was most popular. It seems more likely that the design was more readily available than others in the rural mining camp. Missing from the Virginiatown

cemeteries but present at the Historic Los Angeles Cemetery were short bar coffin handles, plaques, viewing windows, stamped tin coffin studs or any other type of decoration, including the lotus blossom ornaments found only on Chinese coffins at the Historic Los Angeles Cemetery. The lack of short bar handles at Virginiatown can be attributed to the fact that the cemeteries there are older than the Historic Los Angeles Cemetery.

One type of coffin hardware was recovered from the Virginiatown cemeteries but not from the Historic Los Angeles Cemetery. These were swing bail shipping box handles, which were attached to the boxes used to ship the coffins, often left in the boxes for burial. Neither the handles nor the shipping boxes were recovered from the Historic Los Angeles Cemetery.

Burial bricks were also recovered at both the Virginiatown cemeteries and the Historic Los Angeles Cemetery. The Virginiatown bricks, like the Historic Los Angeles Cemetery bricks, included inscriptions with the names and home villages of the deceased. There was no evidence of any headstones at Virginiatown.

CULTURAL COMPARISONS

Grave goods recovered from both Virginiatown and the Historic Los Angeles Cemetery include an opium pipe bowl and metal connector, a Chinese padlock, a tobacco pipe stem, coins and buttons. The buttons were both Chinese and American at each site suggesting that most Chinese were buried in a combination of traditional and non-traditional attire. However, most of the Virginiatown buttons were metal while most of the Historic Los Angeles Cemetery buttons were ceramic. Only a small number of Chinese coins were recovered at Virginiatown, possibly due to the remote location.

Food-related grave goods were also recovered from the Virginiatown cemeteries. These were similar to those recovered from the Historic Los Angeles Cemetery and included stoneware jars, rice bowls and wine bowls. Celadon, Double Happiness, Four Seasons and Bamboo patterns were all represented, although the Double Happiness occurred with much more frequency at Virginiatown than it did at the Historic Los Angeles Cemetery. This is suggestive of earlier interment dates; the pattern is rare after the 1860s (Greenwood 1996:70). Ceramics recovered at the Historic Los Angeles Cemetery but not Virginiatown include teapots, a spoon and a tea bowl stand.

An interesting artifact found at Virginiatown with a parallel to the Historic Los Angeles Cemetery was a Masonic badge. At least one burial at the Historic Los Angeles Cemetery could be associated with the Freemasons through the coffin hardware. We are uncertain if this indicates affiliation with Masonic Lodges or, especially in the case of the coffin hardware, undertakers unloading old inventory on people who did not read English.

Pit features, one at Virginiatown and one at the Historic Los Angeles Cemetery, were very similar. Virginiatown Exhumation Pit #27 contained a wide variety of artifacts, including over sixty Euro-American and Chinese buttons, ceramic and glass fragments, a shovel, eyeglass lenses, an Asian coin, an ink well, a pencil and a paint brush. Rouse (2002:25) speculates that the pit represents a secondary deposition of burial goods created by exhumers. At the Historic Los Angeles Cemetery, a similar pit of artifacts was encountered. The pit contained a gas stove, rice bowl and condiment

dish fragments, stoneware crock and liquor bottle fragments, Euro-American dish fragments, bottle glass, Chinese wen, a leather hat, a marble grave marker and swing bail handles in two different designs, one of which had a Freemasons design. Like the pit at Virginiatown, the pit at the Historic Los Angeles Cemetery appears to have been an accumulation of discarded grave goods created by the exhumers.

Chapter 8 Conclusions and Recommendations

CONCLUSIONS

The City of Los Angeles received deed to the ten acres of the public cemetery in 1879. They then contracted with the owners of Evergreen Cemetery to operate the indigent cemetery through 1895. Beginning in 1896, the City provided the land for indigent and Chinese cemeteries while the County provided the coffins. Each contracted separately for undertaking services for the deceased of the City and County. In 1917 the County completed purchase of the cemetery from the City and took over operations. Burials of indigents are documented in Burial Registers beginning in 1880 and ending in 1922 when the County began to cremate indigents. No Chinese names are listed in burial registers for the entire period that the owners of Evergreen operated the cemetery. Chinese are documented as being buried from 1896 to 1922.

People who were not indigent but of limited financial means were also buried at the cemetery and were charged a fee that appears to have varied with age (children charged the least amount). A portion of the cemetery was used by the Chinese community to bury their dead beginning in 1885 and ending in 1922. The non-indigent Chinese were charged \$10 for burial. Very few Chinese are listed as being buried for free and all of those were deaths at County Hospital. This demonstrates the strength and unity of the Chinese community of early Los Angeles. Prior to use of the Historic Los Angeles Cemetery, the Chinese buried their dead at Fort Moore Hill cemetery.

Record keeping at the Historic Los Angeles Cemetery in the early years appears to have been casual, particularly in regard to Chinese burials. There are at least ten years (1885-95) when Chinese burials at the Historic Los Angeles Cemetery were not documented by the caretakers at all and for many years thereafter the record is demonstrably incomplete.

Beautification of the cemetery grounds by grading to level it, removal of the head-boards, installation of concrete markers, installation of complete sewer and water systems, construction of buildings and retaining walls all appear to have negatively impacted the information that once existed at the cemetery. Any impacts on burials were not made part of the public record.

Compared to the racial composition of Los Angeles County at the time, Chinese are dramatically over-represented at the cemetery, blacks are represented proportionately and whites and foreign-born Hispanics are underrepresented. Since Chinese had no other burial options this observation is

unremarkable. Underrepresentation must be partially due to the fact that native Californians of Mexican descent were classified as white before 1930 and were likely to have been preferentially

buried in Catholic Cemeteries. The same factor is probably at work in the case of Hispanics (foreign-born Mexicans, per census classifications).

Lung diseases caused 35% of deaths. Of that total, 80% were from tuberculosis and 20% from pneumonia. Heart disease caused 10% of deaths and kidney disease 5%. Cancer, suicide, and accidents of all types (mostly railroad) caused 3% each. Infants died from stillbirth, failure to thrive and premature birth totaling 6%. The cemetery sample is dominated by young to middle aged adults, probably due to the incidence of tuberculosis.

Most of the disinterments were of Chinese burials so that the bones could be returned to the family in China. Disinterments were noted in the registers from 1897 to 1945 at the Historic Los Angeles Cemetery. The count varies from year to year but the large numbers in 1937 represent many months of daily disinterments noted in County records and the local newspapers.

Human remains were recovered throughout the project area of impact but in three clusters with empty areas between them. 174 features or recoveries were documented. Some 53 graves lacked bone due to disinterment or disintegration. In addition, isolated bones representing a minimum of 34 individuals were recovered. Most of these were limb bones shallowly buried without containers and represent medical waste from the County Hospital and local medical schools.

Numerous artifacts were recovered. The most abundant class was mortuary items such as coffin hardware. The second most abundant class was clothing represented largely by buttons. All other classes were minor by comparison but include personal effects, health and grooming items and food-related items. American and Chinese grave markers were few in number. Chinese graves had many items constituting religious offerings of respect for the deceased. Prominent were food-related items such as rice bowls.

Recoveries were classified for analysis as Chinese based on the presence of Chinese artifacts and/or the determination of Asian ancestry of the skeletal remains. Chinese and non-Chinese burials were more similar than different in most regards except for the offerings in many Chinese graves. The health analysis demonstrated that the indigent non-Chinese had higher incidence of disease suggesting difficult lives and more exposure to disease and malnutrition than the Chinese population. However, the Chinese had a higher incidence of skeletal markers for childhood illness and malnutrition.

A similar burial ground for indigents, Chinese and medical waste at Golden Gate Cemetery in San Francisco had very few grave markers or grave goods but jewelry was much more prevalent and included religious jewelry. Evidence of access to health care was seen in 2% of individuals compared to 2.5% at the Historic Los Angeles Cemetery. The lower frequency of cavities and tooth loss in life seems to suggest that the Asian population at the Historic Los Angeles Cemetery had a different staple diet than the other historic Californian populations. Comparison to exclusively Chinese cemeteries north of Sacramento demonstrated many similarities to the Chinese graves at the Historic Los Angeles Cemetery. They imply similarity of rituals and adaptation.

RECOMMENDATIONS

The City of Los Angeles should file archaeological site records for all known historic cemeteries within the city limits. This will ensure these resources are reported during record searches and included in assessments and impact analyses.

The County of Los Angeles should take immediate steps to remove all Board of Supervisors Minutes older than fifty years from record storage and transfer them to the County Library Rare Books section. The inability of the storage facility to locate the priceless, irreplaceable, original handwritten Minutes from the 1880s is a symptom of a larger problem. The County should also remove the original, handwritten Burial and Cremation Registers from the County Crematorium facility and transfer those to County Library Rare Books or the Norris Library Rare Books section. These records are also irreplaceable and are held in a building without fire sprinklers or adequate security. Finally, the County should appropriate funds to create digital images of the Board of Supervisors Minutes for use by researchers. The Huntington Library or the Getty would be appropriate contractors for this work.

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