

**THE ARCHEOLOGY OF 290 BROADWAY
VOLUME IV
CONSERVATION OF MATERIALS FROM THE
AFRICAN BURIAL GROUND AND THE
NON-MORTUARY CONTEXTS**

Prepared for

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The extremely degraded condition of certain artifacts necessitated that identification be undertaken by specialists. Glass expert Robert F. Brill, research scientist, the Corning Museum of Glass, graciously took the time to examine selected glass beads and made the initial identification of the amber bead in the collection. Analytical chemists John Boyd and Yves Midy at the U.S. Customs Laboratory, New York City, provided X-ray fluorescence analysis for selected artifacts, and Roland Harris identified degraded wood samples. Margaret Walsh, textile specialist, also with the U.S. Customs Laboratory in New York, assisted in the identification of fibers. Analytical chemist Peter Brown at the U.S. Customs Laboratory in Savannah provided scanning electron microscopy analysis for selected samples. Mary Wypyski, conservation scientist, Metropolitan Museum of Art, New York City, provided scanning electron-microscopy analysis for selected beads. Steven D. Cairns, curator of stony corals, Department of Invertebrate Zoology, Museum of Natural History, Smithsonian Institution, generously took the time to meet with Ms. LaRoche to discuss the corals recovered from the site. Upon his recommendation, selected coral samples were sent to Ann Budd, fossil coral taxonomist, Department of Geology, Iowa State University, for further identification. Cynthia Hughes, the Textile Museum, Washington, D.C., generously provided comparative fiber samples and the use of the conservation laboratory. Dennis Seckler, Doville Nelson, Josh Nefsky, and Cheryl LaRoche were responsible for photodocumentation. Gary McGowan and Cheryl LaRoche were responsible for X-ray analysis and photomicroscopy.

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1.0 INTRODUCTION

This conservation report presents the methods and results of conservation strategies applied to materials from the 290 Broadway Block (Block 154) portion of the various projects associated with development of Foley Square, Lower Manhattan. These projects were comprised of two locations: Blocks 160-161, the Courthouse Block; and Block 154, the 290 Broadway Block in Lower Manhattan, New York City. A federal courthouse was erected on Block 160-161 and a federal office building located at 290 Broadway was erected on Block 154 (Figure 1). Plans for the construction of a pavilion (Figure 2) at the 290 Broadway building were eliminated due to the discovery of the African Burial Ground. The 290 Broadway Block portion of the project included two archeological components, the African Burial Ground and the non-mortuary-related archeological contexts. This report covers conservation aspects of both the mortuary (African Burial Ground) and the non-mortuary components of the 290 Broadway Block; the conservation of the courthouse material can be found in Volume V of the Foley Square report entitled *Tales of Five Points: Working-Class Life in Nineteenth-Century New York* (McGowan and LaRoche 2000).

1.1 Project Background

An overview of the complex contractual and administrative history of the various Foley Square projects is necessary for comprehension of the role of conservation on the project, and is presented here to clarify subsequent discussions or decisions pertaining to scheduling, shipment of skeletal materials, or treatment.

In May of 1989, a contract to conduct data recovery investigations at Foley Square, which consisted of both the Courthouse Block (Five Points site) and the 290 Broadway Block (African Burial Ground), was awarded by the General Services Administration (GSA) to Historic Conservation and Interpretation, Inc. (HCI), a cultural-resources management firm based in Newton, New Jersey (Ingle et al. 1989). With time, the Courthouse Block was separated from the 290 Broadway Block, and the non-mortuary component of the 290 Broadway Block was eventually separated from the African Burial Ground. However, conservation strategies were developed for the project as a whole. Gary McGowan, now with Cultural Preservation and Restoration, Inc., was hired in 1989 as a subconsultant to provide conservation services to HCI and continued to provide conservation services beginning in 1992 as a subconsultant and eventually an employee of John Milner Associates, Inc. (JMA).

HCI conducted preliminary historical research for both sites and completed excavation of the Courthouse Block. During the last three months of the Courthouse Block excavation, HCI crew members worked concurrently on the Courthouse Block and the 290 Broadway Block. By September 1991, the excavation of the Courthouse Block was completed and the excavation effort shifted to the 290 Broadway Block.

The initial excavation of the African Burial Ground focused on Republican Alley and Manhattan Alley, where burials were thought to be preserved, and on Lots 12 and 20-21, where later historic resources were predicted. The original studies concluded that there was a very low probability of the presence of burials in other parts of the project area (Ingle et al. 1989:127-129; Condell and Rutsch 1991, as cited in Rutsch et al. 1992:3-5).

When it became apparent that a larger-than-anticipated portion of the African Burial Ground was undisturbed and that the number of skeletons, therefore, exceeded predicted levels, the Metropolitan Forensic Anthropology Team (MFAT), affiliated with Lehman College, Bronx, New York, was given responsibility for the skeletal analysis. Michael Parrington of Helen Schenck Associates, a subconsultant to HCI, was hired as the principal investigator and provided oversight of the field excavations of skeletal and cultural materials for the African Burial Ground. Philip Perrazio supervised excavation of the non-mortuary contexts.

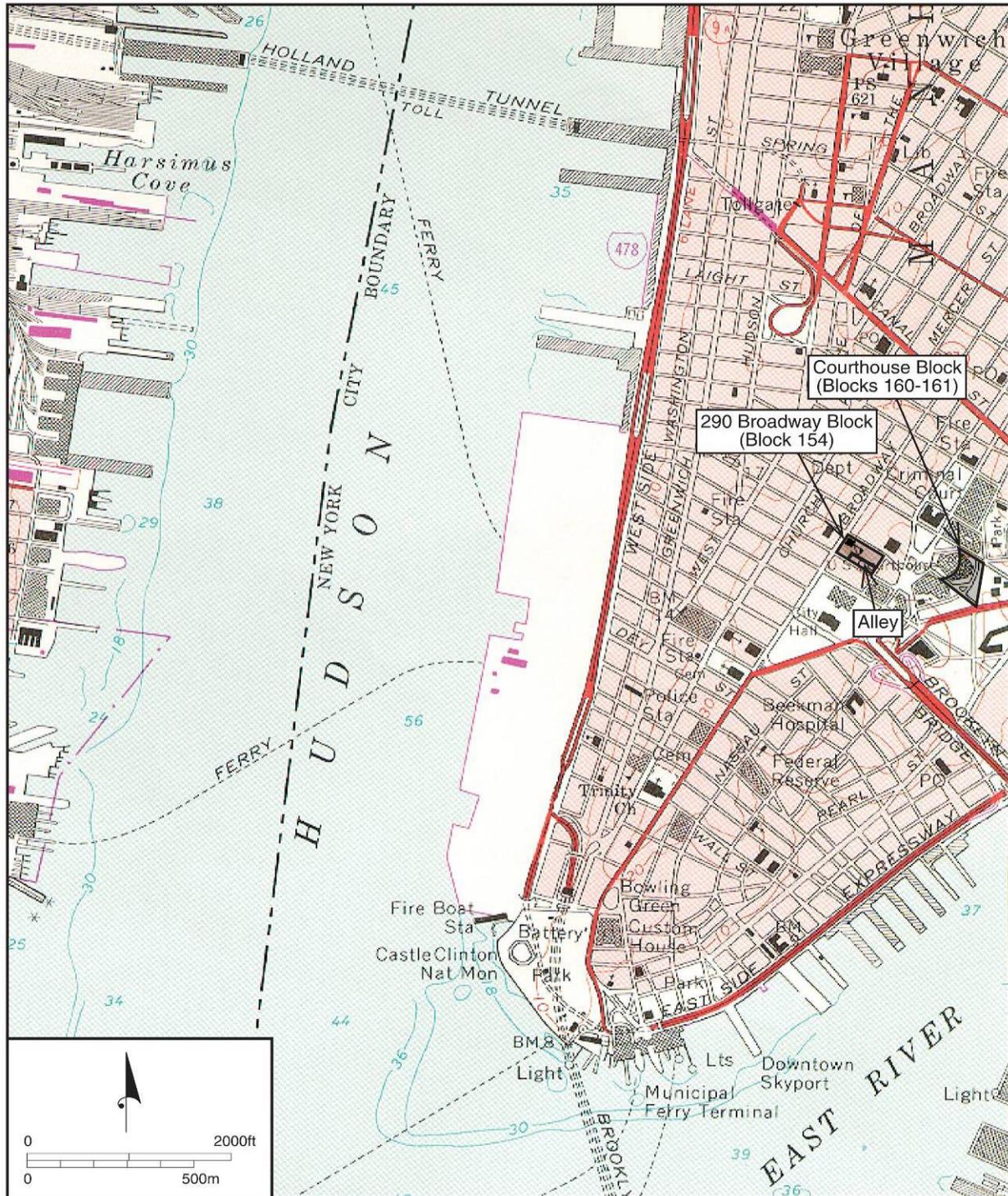


Figure 1. Project area location. The 290 Broadway Block contains the African Burial Ground and the Courthouse Block contains the Five Points site (U.S. Geological Service 1981).

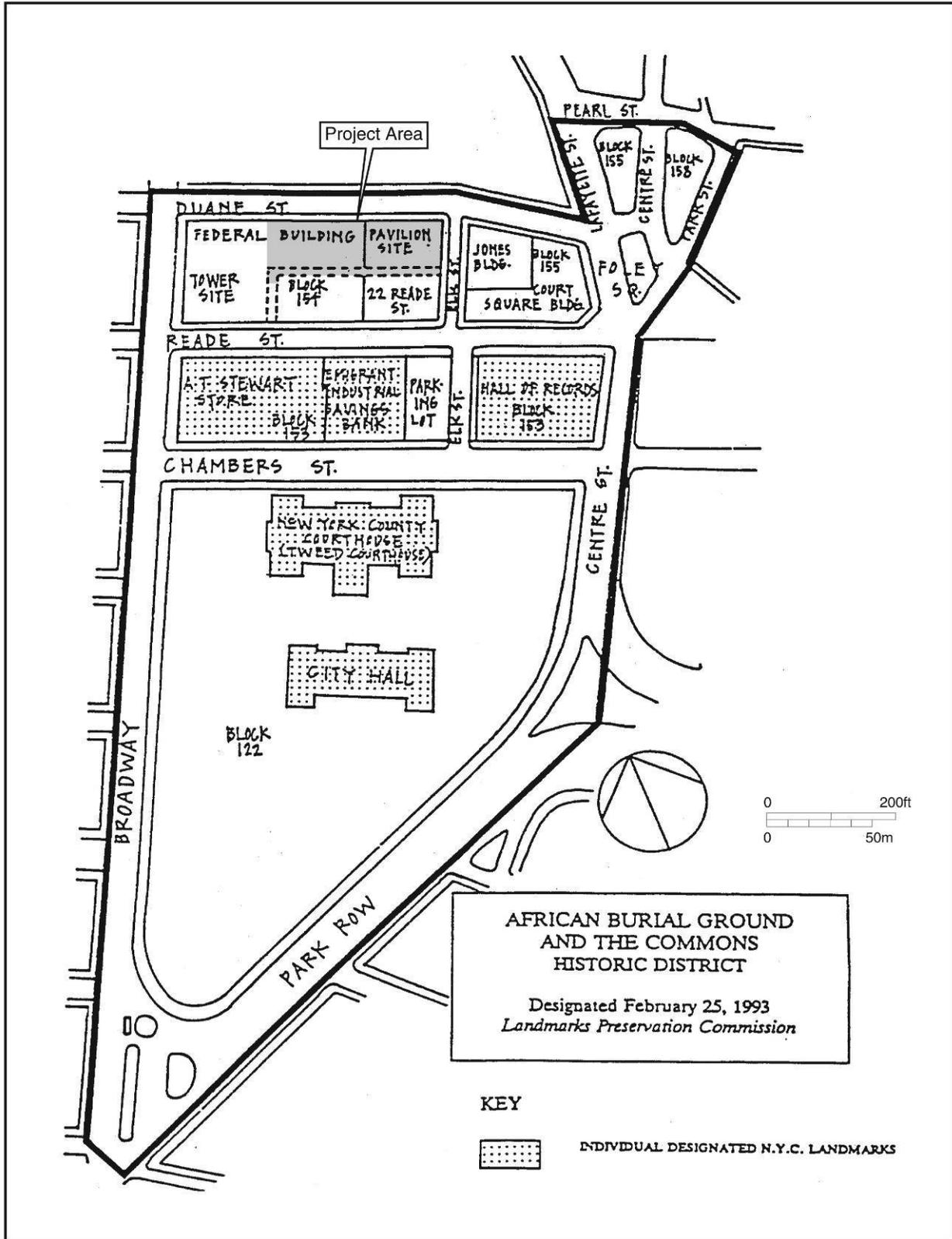


Figure 2. African Burial Ground and the Commons Historic District showing the location of the archeological investigations (from Landmarks Preservation Commission 1993).

Artifact and cultural materials assessed in the field by Parrington and his staff as requiring conservation were sent to an interim laboratory, which was provided as a professional courtesy by the South Street Seaport Museum's conservation laboratory, 17 State Street, New York City. This facility provided a stable environment for the mortuary artifacts and enabled compliance with local concerns that excavated materials remain in New York City. A small portion of the non-mortuary artifacts excavated from the 290 Broadway Block was initially sent to HCI in Newton, New Jersey.

The decision to use the local laboratory at the South Street Seaport Museum was based on the quality of the conservation laboratory and its proximity to the excavation site. The initial conservation effort was directed toward assessing the physical and chemical stability of the artifacts by beginning holistic interim stabilization on the excavated mortuary artifacts.

During the time when the African Burial Ground artifacts were at the South Street Seaport Museum's conservation laboratory, they became a vehicle for fulfilling the laboratory's mission to engage the public about archeology and conservation. The conservators were frequently involved in outreach to the community at large to explain the conservation work. The intense public interest in the African Burial Ground component of the Foley Square project meant that many people visited the conservation laboratory.

The conservation laboratory was equipped with a video system that allowed the public to observe the conservators at work at the microscope and provided a means of educating large groups about the intricacies of conservation. In addition to viewing conservation techniques, an interactive exhibit entitled "New York Unearthed" presented information on archeology for those specifically interested in the African Burial Ground.

Although all inorganic artifacts were treated at the conservation laboratory of the South Street Seaport Museum, the skeletal remains were initially housed in a trailer at the 290 Broadway Block, and the other organic materials, including all wood samples, were initially stored in freezers at HCI in Newton, New Jersey. With the introduction of MFAT as project physical anthropologists, the skeletal materials were sent to Lehman College, Bronx, New York. The hair and tissue samples from the graves were stored in a refrigerator at MFAT's laboratory adjacent to where the skeletal materials were stored.

HCI's contract was terminated by the GSA, and John Milner Associates, Inc. (JMA), of West Chester, Pennsylvania, was awarded a contract for the completion of the excavation of the site. From July of 1992 through October of 1992, Gary McGowan was retained by JMA as a subconsultant to provide conservation services. The GSA and JMA equipped a conservation and archeological laboratory at 6 World Trade Center, New York City. In November of 1992, McGowan became an employee of JMA and principal conservator for the project and Cheryl LaRoche became project conservator. Michael Parrington continued as principal investigator, working as a subconsultant to JMA. In July of 1992, Howard University was awarded a contract for the bioanthropological investigation and interpretation and Dr. Michael Blakey of the Cobb Bioanthropology Laboratory, Howard University, was named scientific director.

The 6 World Trade Center laboratory housed the artifacts excavated from all components of the Foley Square archeology, including the Courthouse Block (Five Points), the 290 Broadway Block, and the African Burial Ground. Although JMA and Howard University assumed responsibility for the project in July 1992, the skeletal remains continued to be housed at Lehman College under the control of MFAT from July of 1992 to April 20, 1993. From April to November of 1993, the skeletal remains at Lehman were monitored by JMA's project conservators. In November of 1993, the skeletal remains were transferred to the Cobb Bioanthropology Laboratory at Howard University.

At the time when the conservation and archeological laboratories were established, the Liaison Office was created, also at 6 World Trade Center, to foster public awareness. In compliance with the public interpretation and education mandate of Section 106, the Liaison Office officially became the Office of Public Education and Interpretation of the African Burial Ground (OPEI). The OPEI was fully funded by the GSA, who contracted with JMA to manage and operate the office with Dr. Sherrill D. Wilson as its

director. In addition to its quarterly newsletter, the OPEI conducted archeological tours that discussed recovered and conserved artifacts and offered films and lectures in fulfillment of the OPEI's educational mandate.

When JMA began work on the 290 Broadway Block in 1992, conservation and archeological processing was focused on the African Burial Ground collection. The schedule of treatment and work on the artifacts from the African Burial Ground was postponed, however, due to contractual considerations. The conservators then shifted to the conservation of artifacts from the Courthouse Block. Laboratory work on the Courthouse Block's Five Points project ended in the summer of 1997.

During the intervening years, while treating cultural material from the Courthouse Block, the conservators packed the African Burial Ground artifacts for shipment to Howard University for analysis, in accordance with *The Protocol for the Disposition of 290 Broadway Block Artifacts and Data, Lower Manhattan, New York* (Yamin et al. 1995a:1). It was later decided that these artifacts would remain in the Foley Square Laboratory in New York City. Dr. Warren R. Perry and his staff assumed responsibility for the artifacts and their analysis in 1996 under the direction of Dr. Michael Blakey of Howard University. In November of 1996, Dr. Charles Cheek of JMA assumed responsibility for the non-mortuary contexts of the 290 Broadway Block and served as a liaison between Howard University and JMA. Conservation and analytical testing of the artifacts associated with the two sites were resumed at this time.

It should be noted that the World Trade Center was bombed on February 25, 1993. The epicenter of the explosion was in the basement of Building No. 1 which is adjacent to Building No. 6, which housed the Foley Square Laboratory. There was minor damage to the laboratory walls, but no physical injury to the staff and no damage to the artifacts. The effects of the dense particulate matter, smoke, and soot which resulted from the bomb were minimal. The cultural material was stored in bags and boxes, which shielded the collection from contamination. During the week immediately following the bombing, the laboratory was closed and no heat was provided to the facility. This fluctuation in temperature, however, appeared to have no adverse effect on the artifacts.

1.2 Goals and Objectives of Conservation

This document, part of a multi-volume report prepared by JMA on the archeological investigations of the 290 Broadway Block, is intended for use by archeologists as well as conservators. The role of the conservator is to act as a steward for collections and artifacts that require conservation. The conservation objectives for the 290 Broadway Block are consistent with the objectives of the American Institute for Conservation of Historic and Artistic Works (AIC 1994) and the Code of Federal Regulations, Part 79—Curation of Federally Owned and Administered Archeological Collections (36 CFR Part 79:8). The work was further guided by an amended memorandum of agreement (GSA 1991), which calls for reburial of the mortuary-related artifacts along with reburial of the skeletal remains. The African Burial Ground was designated a New York Historic Landmark in February of 1993 (Landmarks Preservation Commission 1993).

When JMA and Howard University were awarded contracts for various aspects of the Foley Square work, research designs were written and revised. Among other things, they delineated the conservation parameters of the project (Howard University and John Milner Associates [HU/JMA] 1992, 1993a, 1993b; John Milner Associates and Howard University [JMA/HU] 1993). The primary goal was stabilization and preventative conservation. As stated in the research design (HU/JMA 1993b:84), conservation measures were undertaken when conservation of an object was necessary to provide data related to the research questions or when an object was determined to be suitable for display purposes. With the exception of iron nails and the majority of the glass beads, mortuary and non-mortuary artifacts were treated at a level of stabilization that would allow retrieval of data through conservation or analytical means. Freezing of organic material is an example of an interim stabilization procedure. When treatment was not warranted or requested by team members, preventative conservation measures were undertaken.

Although the AIC provides definitions of conservation terminology, those who are not conservators may not recognize the terms used in this document. The conservation profession is devoted to the preservation of cultural materials. The archeological conservator must balance the preservation of evidence with the necessity of treatment to enhance the interpretive value of the artifact (Dollery and Henderson 1996).

Conservation activities include examination, documentation, treatment, and preventative care, supported by research and education. Examination includes the investigation of the structure, materials, and condition of cultural property, including the identification of the extent and causes of deterioration and alteration. Documentation consists of recording in a permanent format information derived from conservation activities. For the Foley Square 290 Broadway Block, documentation consisted of photo-documentation, digital imaging, X-rays, drawings, and computerized conservation records.

While chemical and mechanical cleaning treatments are most closely associated with the conservation profession, the term treatment has a broader definition. Within the field of conservation, treatment is the deliberate alteration of the chemical and/or physical aspects of cultural materials, aimed primarily at prolonging its existence. Treatment may consist of stabilization or restoration or a combination of approaches. Stabilization includes treatment procedures intended to maintain the integrity of cultural materials and to minimize deterioration. Restoration includes treatment procedures intended to return cultural materials to a known or assumed state, often through the addition of non-original material. Preventative care, often referred to as preventative or passive conservation, is the mitigation of deterioration and damage to cultural materials. Preventative care procedures include appropriate environmental conditions; appropriate handling and maintenance procedures for storage, exhibition, packing, transport, and use; integrated pest management; emergency preparedness and response; and reformatting/duplication (AIC 1994:22). One primary preventative care procedure implemented for the 290 Broadway Block is the storage of fragile artifacts in transparent polyethylene boxes fitted with Ethafoam®, which allows viewing of the artifact without handling.

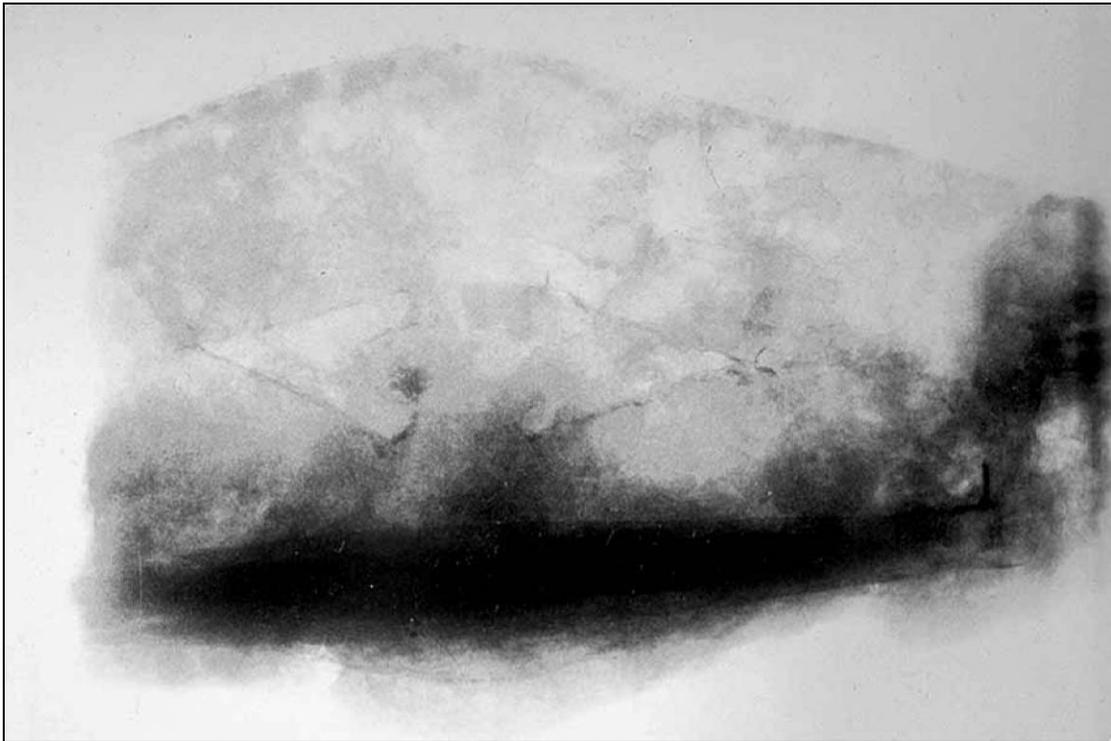
Aesthetic issues and criteria normally associated with evaluation for exhibition were not the primary considerations for display of cultural materials associated with the project. The criteria of suitability for display centered on educational and analytical values. Artifacts that were reconstructed or restored to enhance analytical potential were placed on view in the Foley Square Laboratory for both public and scholarly investigation. If degradation rendered an artifact difficult to “read” or understand but it contained educational value for archeology or conservation, the artifact was displayed along with teaching material.

For example, iron coffin handles from Burials 90 and 176 were completely obscured by corrosion overburden and would have been difficult to clean due to their fragile nature and lack of robust metal content. The handles were analyzed using X-radiography, eliminating the need for invasive conservation techniques (Figure 3). The handles were used to illustrate electrochemical activity inherent in wet archeological sites; the science and chemistry of corrosion formation and equilibrium; and how archeologists use style and decorative detail in dating artifacts. As part of a larger goal of exposing broader audiences to anthropology, archeology, and archeological conservation as professions, the OPEI and the laboratory staff displayed the artifacts and explained their information potential.

Although this report describes aspects of conservation as they relate to the mortuary and non-mortuary components of the 290 Broadway Block, it may also be used as a general reference guide for understanding treatment goals and objectives within archeological conservation. However, this document should not be considered a practicum for conservation treatments. The condition of an artifact depends on soil and deposition processes, which vary from site to site. Archeological conditions foster unique chemical and physical environments and reactions. Mishandling or damage may result if treatments are applied without a full understanding of the rationale behind treatment strategies and their effects on artifacts.



a.



b.

Figure 3. Condition of iron coffin handle, Burial 90, cat. no. 833: a) mass of iron corrosion; b) X-radiograph of corrosion mass revealing a portion of a coffin handle. Notice chevrons in center pointing left and right (see Figure 18b also). Photo by Cheryl LaRoche.

Conservation emphasis was placed on passive or preventative conservation, stabilization, and preservation of the inherent data and analytical potential of the artifacts to ensure artifact preservation while this collection is available for study and analysis. It should not be assumed, however, that conservation inevitably renders materials immune to the effects of agents of long-term deterioration. Conservation attempts to buffer materials against deteriorating agents, but sometimes this is impossible (Cronyn 1990:33). The durability and chemical stability inherent in materials such as metal or glass are often difficult to reconcile with the unstable, morphologically degraded artifact from the archeological environment.

Chemical treatments may mitigate the degrading effects of the archeological environment but may not impart structural stability. For example, artifacts were frequently vacuum-impregnated with an acrylic resin that acts as a consolidant and barrier coating. This did not, however, compensate for loss or voids in the object. Fissures, cracks, and breaks in artifacts were repaired, but reconstructed objects received no further physical or structural strengthening. Restoration, which does give strength to reconstructed artifacts, was not undertaken, with the exception of a few selected artifacts as noted. Therefore, many of the treated artifacts remain quite fragile and should not be handled for study, photodocumentation, or analysis without supervision of a conservator.

1.3 Report Organization

The remaining portion of this report is organized into several sections. In Section 2.0, field conditions and the mortuary environment are discussed. Section 3.0 reviews the post-field conditions for the mortuary remains and the monitoring and shipping of the skeletal remains. Conservation methods, including safety standards, documentation, instrumentation, and elemental analysis, are discussed in Section 4.0. The fifth and sixth sections deal with materials, summarizing treatment and analytical approaches by material type, from mortuary (Section 5.0) and non-mortuary (Section 6.0) contexts, with reference to examination, condition, and treatment of specific artifacts by provenience. The same conservation methods, materials, and procedures were applied to both the African Burial Ground collection and the non-mortuary collection. Specific artifacts reflect the mixed use of the African Burial Ground site, and the various artifacts treated, rather than conservation procedures *per se*, were selected to illustrate the application of conservation methods. Recommendations for curation and long-term storage are included in Section 7.0. The report's conclusions are presented in Section 8.0, and the references cited are in Section 9.0. Analytical results and conservation-treatment records are contained in the appendices.

2.0 FIELD CONDITIONS

Archeological site-formation processes at the 290 Broadway Block are discussed in another project document (Cheek 2004). Field conservation procedures are also discussed in detail in the research design (HU/JMA 1993a:85). This conservation report limits discussion to the conditions that contributed to the complex patterns of degradation associated with the skeletal and cultural remains from the site. According to Pollard and Heron (1996:345–346):

We know very little about the detailed effects of variations in burial conditions on a wide range of materials, such as bone, metalwork, etc. This requires a detailed knowledge of the deterioration mechanisms of the materials themselves, but also an ability to predict the changes arising from variations in soil conditions. This requires an understanding of the soil (strictly, burial medium)/groundwater/archaeological object interaction, which involves a very wide range of chemical and physical understanding.

2.1 Burial Environment at the 290 Broadway Block

Catalytic agents present in the burial environment always impact artifact preservation. For the African Burial Ground and the 290 Broadway Block excavation, the presence of moisture and acidic soils had adverse effects. The Collect Pond and the marshes that surrounded it were once among the most conspicuous topographical features of Lower Manhattan, located within a belt of low-lying wetlands. Historic maps depicting the Collect Pond, the Little Collect, and the surrounding marshes and swamps indicate the extent and proximity of the wetlands to the African Burial Ground and the 290 Broadway Block (Figure 4). The ponds were fed from underground aquifers, and this may account for the high water table associated with the burial ground excavation (Yamin et al. 1995b). The southern arm of the marshy area surrounding the pond extended to West Broadway and Barley Street and probably contributed to the wet environmental conditions found at the site (Neville 1994:14–15).

2.1.1 *Historical and Natural Factors Contributing to the Archeological Environment*

Throughout its history, the site was a multi-functional property. While it was in active use as a burial ground, it was also used for ceramic production and as a refuse site for the production debris. Land manipulation in the eighteenth and nineteenth centuries, including landfill and drainage changes in the early nineteenth century, produced a myriad of effects on the artifacts. Several episodes of environmental changes culminated in contamination through the introduction of twentieth-century pollutants. In the twentieth century the site was in use as a parking lot and was frequently the dumping site for a variety of pollutants, such as petroleum distillates and cooking oils from neighborhood push carts (Rutsch 1989, personal communication).

The topography and complex soil conditions created a variety of archeological environments. The variety of environments affected the preservation of both artifacts and skeletal remains. For example, aqueous environments affect artifacts. Electrochemical reactions with water cause corrosion and damage (Cronyn 1990:166–167). The natural topography and subsequent introduction of overlying fill altered the original aqueous environments, amplifying and changing the physical and chemical reactions.

The presence of naturally occurring alluvial clays with lenses of Cretaceous sands also contributed to the variety of environmental conditions (Figure 5). Many of the natural catalysts of artifact and skeletal deterioration were in these soils. Sand allowed water seepage, while the alluvial clay acted as a hydrophilic substrate, binding free water to the adjacent artifacts and skeletal materials. The wet, gelatinous consistency of the skeletal remains upon excavation was indicative of waterlogged conditions. The abundance of oxygen, inherent in alluvial clays, increased acidity (lowered pH), which broke down organic resins. Furthermore, this oxygenated environment encouraged the deterioration of ferric alloys through oxidation

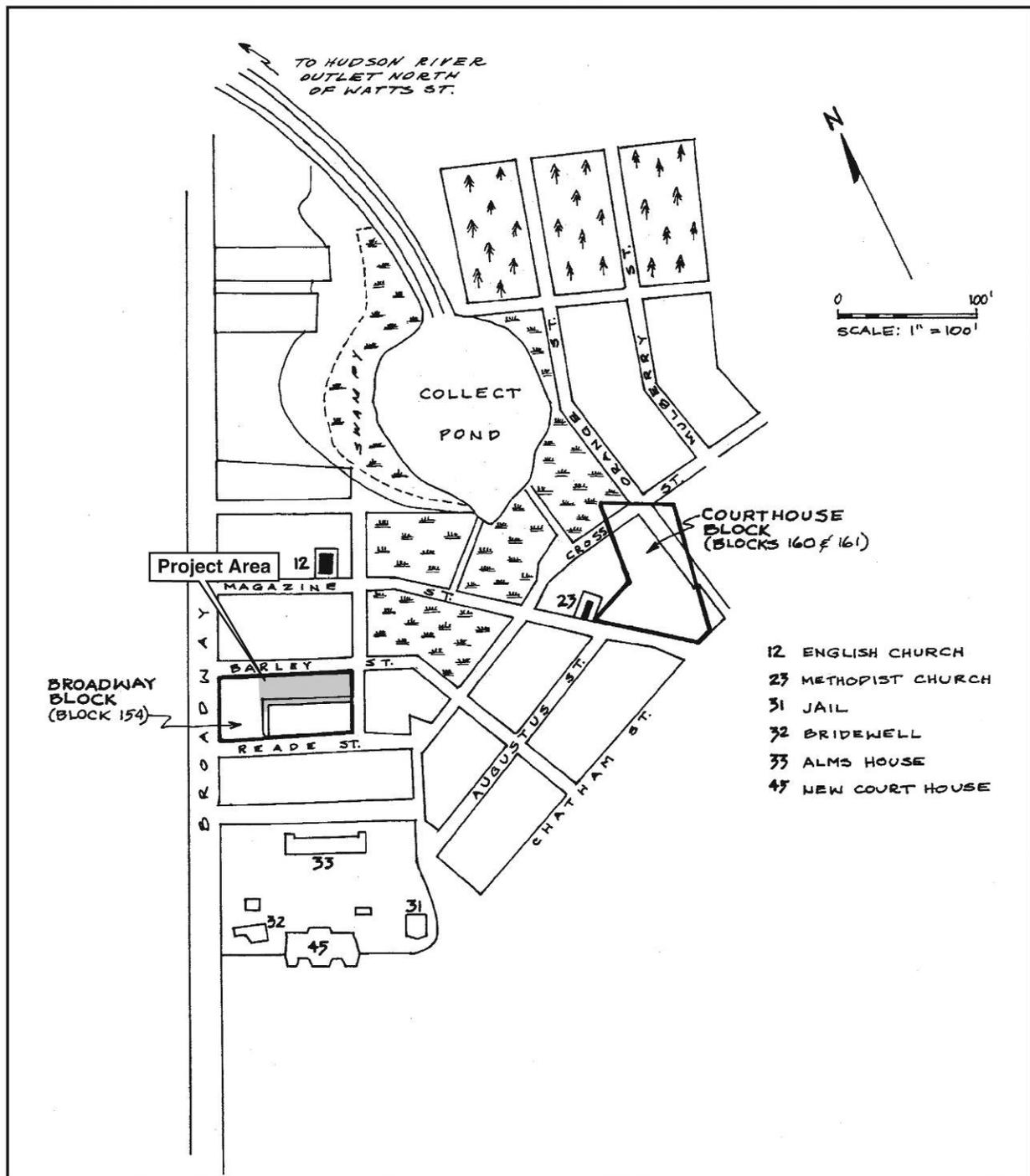


Figure 4. Tracing of a portion of the Plan of the City of New York showing the relationship of the African Burial Ground Site to the marshes and water of the Collect (Goerck 1803, after Ingle et al. 1989).



Figure 5. Cross-section of Feature 111/120, a naturally filled depression, showing alluvial clays underlain by Cretaceous sands. View to northeast.

as the free oxygen was tied to the groundwater. Thus, iron preservation at the 290 Broadway Block was poor due, in part, to oxygenated conditions and electrochemical activity.

When a catalyst, such as oxygen, is depleted, the soil becomes anoxic, and agents of deterioration that are dependent on an oxygenated environment rapidly decline while there is a corresponding increase in anaerobic activity. This anoxic environment harbored anaerobic bacteria, which accelerated the rate of degradation of organic materials. Several artifacts exhibited blackened surfaces, evidence of metal sulfides produced by sulfate-reducing bacteria associated with anaerobic conditions. The microenvironment produced by the permeable sand lenses fostered its own unique degradation pattern. While these more permeable loci are less biologically reactive, they can be more chemically reactive. As one agent of deterioration diminished, another flourished.

In general, the state of preservation for non-mortuary artifacts was better in comparison with that of the mortuary artifacts. Three factors probably affected the state of artifact preservation. First, cultural material from the African Burial Ground was affected by the chemistry associated with the decomposition of the human body, while the same was not true for the 290 Broadway Block artifacts. Second, some of the African Burial Ground artifacts could have been buried for about 300 years while the non-mortuary material could have been buried as recently as 188 years ago. Last, most of the artifacts from the non-mortuary contexts were at or near the original ground surface and were not as affected by the fluctuating water table and associated soil chemistry as were the mortuary artifacts.

2.1.2 Soil Compression and Fill

The African Burial Ground was closed in the mid-1790s and the site, including the burial ground, was divided into lots beginning in 1797. Fill, which was placed on the lot in the early nineteenth century, compressed the underlying soil. The weight of the overburden caused physical damage, such as compaction, abrasion, distortion, and fracturing. Filling episodes also caused changes in the drainage patterns and added catalysts in the form of pollutants and other materials.

2.2 Field Triage Conservation

Field triage conservation strategies were restricted to mortuary-related materials. The excavated skeletal remains were initially wrapped in newspaper and stored in cardboard boxes. Given the calciferous nature of bone and the inherent acidity of newsprint, these storage conditions were aggressive to the bone and undermined morphological stability. The preferred method of storage and handling is to wrap and store bone in acid-free or inert materials. When JMA assumed responsibility for the bones, team members created new storage conditions for the bone, following the advice of the project conservators. They removed the newspaper, rewrapped the skeletal remains in acid-free tissue cachets with acid-free board for support, and placed them in metal, electrostatically painted, vented museum storage cabinets.

During excavation, the archeologists noted that some of the bones were of a soft, buttery texture (consistent with wet, waterlogged conditions), but became brittle and friable upon drying. HCI archeologists requested recommendations for consolidating friable bone surfaces, and various treatment options were recommended by the conservator. These included acryloids (such as B-72®), polyvinyl alcohol (such as Butvar®), and polyvinyl acetates (such as Jade 403). After considering availability and ease of use, the archeologists chose to use the PVA Jade 403. Unsupervised applications of this material by the field archeologists resulted in overuse of the materials and, as a result, soil matrices were bound to artifacts in some instances. The consolidant was also applied to friable artifacts such as the shells from Burial 340 (Figure 6).

The artifacts recovered from mortuary contexts were initially stored in field bags. Upon receiving this material at the interim conservation laboratory of the South Street Seaport Museum, all artifacts were transferred into storage boxes of polyethylene, an inert material, to provide structural support. This rehousing process was completed at the Foley Square Laboratory.



Figure 6. Cowrie shells (Burial 340, cat. no. 1651) with soil adhering to the surface after a PVA adhesive was used in the field to consolidate the remains. Photo by Cheryl LaRoche.

2.3 Site Stabilization

On July 29, 1992, GSA Administrator Richard G. Austin officially terminated excavation of the African Burial Ground. Although an estimated 410 burials had been excavated prior to suspension, 16 burials that were either fully or partially excavated at the time of the suspension were left exposed in the eastern portion of the project area, which was initially proposed as the site of the pavilion (Roberts 1992). There are an estimated 200 burials remaining *in situ* in the pavilion area. Conservation of these burials necessitated structural and chemical stabilization of the site.

With the GSA's approval, JMA's field team removed the skeletal remains and completed the excavation of the partially excavated graves and all exposed grave shafts. Grave outlines were covered with mounds of backdirt. When the decision was made to close the site and preserve the pavilion area, several chemical stabilization strategies were implemented to mitigate the introduction of oxygen into the subsoils, the changes to the water table, and the redirection of run-off caused by the archeological excavation (HU/JMA 1993a:86–87). To return the area to pre-excavation anaerobic conditions, the site was capped with 12 feet (two 6-foot filling episodes) of sterile, pH-neutral sand.

In addition to conservation considerations, engineering strategies were implemented to ensure that the surrounding road surfaces, walkways, and buildings remained stable, since the preservation treatment (excavation and backfilling with sand) altered the structural integrity of the site.

A system of cross-bracing tie-rods was developed because of the lack of structural support inherent in the sand. This system, consisting of steel tie-rods spanning the site from north to south, was installed by the contractor to stabilize the perimeter walls, surrounding streets, and sidewalks. The cross-lot bracing was installed on 8-foot horizontal and 6-foot vertical centers and anchored to the poured-concrete perimeter. Fill was placed between the tie-rods and 6 feet of topsoil was deposited over the entire site. The site was then topped with sod and is currently enclosed by a chain-link fence (Figure 7).

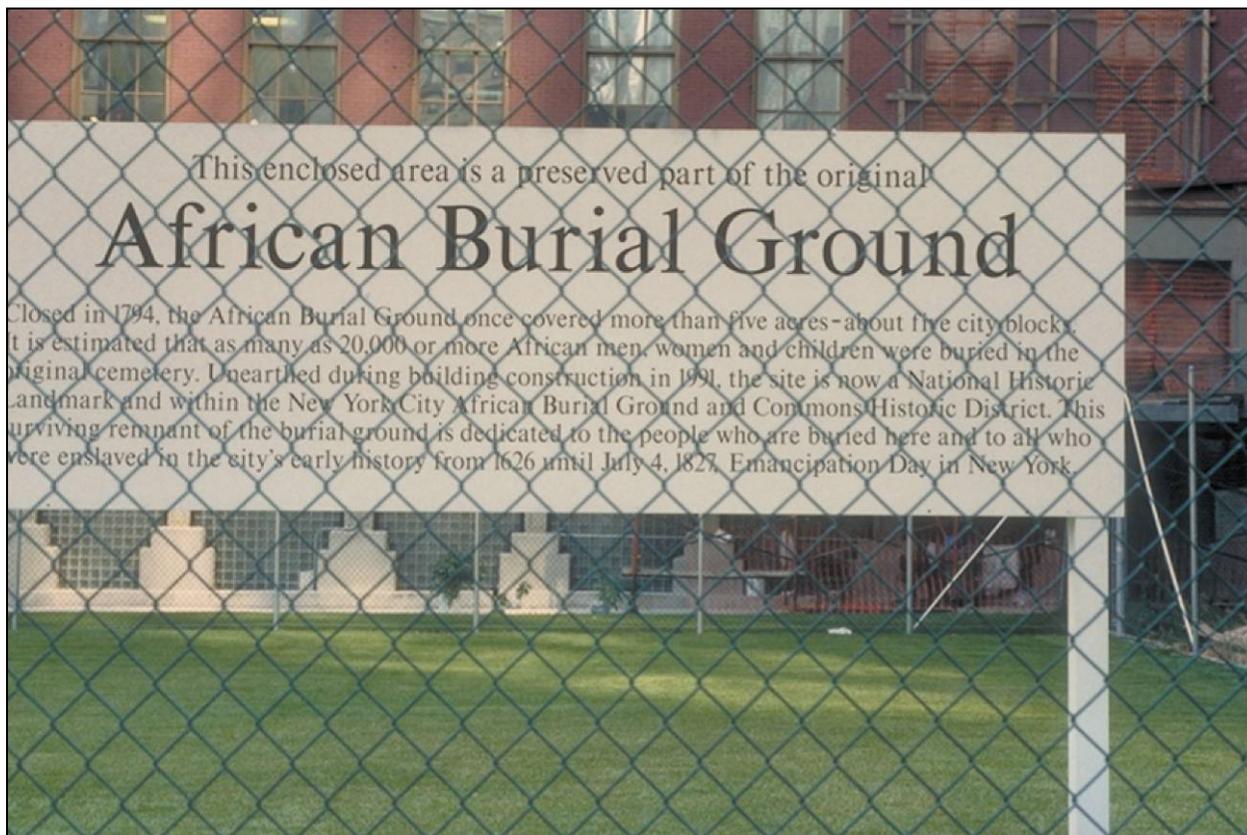


Figure 7. Chain-link fence surrounding the undeveloped area of the African Burial Ground where an estimated 200 burials remain. Photo by Cheryl LaRoche.

3.0 POST-FIELD CONDITIONS

3.1 Maintenance of Skeletal Remains

HCI transferred all skeletal remains from the field directly to its subconsultant, MFAT, whose facilities were located at Lehman College, Bronx, New York. The field boxes containing the remains were initially stacked and stored in an uncontrolled environment. Skeletal remains and associated materials were wet or waterlogged when excavated. These conditions, coupled with the lack of environmental controls, fostered biological activity in the form of mold and other microbial contaminants. MFAT, following recommendations by the conservators, applied a 70 percent solution of ethanol to control outbreaks of mold visible on the surfaces of the skeletal remains.

The extreme summertime temperatures, the seasonally high relative humidity (RH), and the lack of archival storage materials and environmental controls caused further deterioration of the skeletal remains. The combination of high RH and acidic environmental conditions created by newspaper in contact with the bone caused deterioration of bone surfaces. Overcrowded storage conditions associated with the initial field packing, coupled with the acid attack, resulted in abrasion, crumbling, and overall physical deterioration of the materials.

It was recommended by the conservators that the collection be moved to more suitable storage conditions in an air-conditioned space. The entire collection was eventually moved into an air-conditioned gymnasium equipped with museum storage cabinets. The cabinet-drawer bottoms were lined with polyethylene microfoam sheeting to prevent abrasion and movement. Excessive light levels were mitigated by placing UV protection covers at the windows and Art-Sorb®, a moisture-sensitive silica material that absorbs and desorbs moisture, was used to offset changes in RH levels within the storage cabinets. The vents on the gasketed storage cabinets were closed to create a microclimate and to prevent any exchange of biological contaminants. This closed environment was also necessary so that the Art-Sorb® could control the microenvironment surrounding the bone. MFAT purchased the product but at a desiccating level lower than had been recommended, which dropped the RH to an unacceptable 20 percent (Figure 8).

When JMA assumed responsibility for the contract, Gary McGowan, who became the principal conservator for the project, was part of a review team that inspected the storage conditions. Although the hygrothermograph readings indicated an ideal macroclimate of 50 percent RH and a temperature of 68°F ± 2°, upon further inspection it was noted that the actual RH level of the micro-storage environment was desiccating, approaching 20 percent RH. Mitigating the desiccated friable condition of the bone by slowly raising the RH became a priority. After the inadvertent desiccation of the collection and subsequent rehydration and reconditioning of the Art-Sorb® to acceptable RH levels, mold was no longer an active threat. JMA's conservators monitored the collection biweekly and continued to rebalance and recondition the Art-Sorb® to a 50 percent RH and monitor the microenvironment within the cabinets by the use of hygrothermographs.

To honor and commemorate their ancestors, members of the present-day New York African-American community placed a shrine at the Lehman Laboratory (Figures 9a and 9b). Because this shrine was in the laboratory, the conservators recommended that no organic materials should be present and removed the wooden statuary, floral and plant material, and any other organic matter that could introduce contaminants or attract vermin. Subsequently, organic materials were removed.



Figure 8. Art-Sorb® packages with specifications indicating a dry relative humidity (RH). The warped condition of the packaging is due to the hydration process of conditioning the Art-Sorb® to a 50 percent RH. Photo by Cheryl LaRoche.



a.



b.

Figure 9. The shrine to commemorate the ancestors at Lehman Laboratory: a) overall view; b) detail of the animal bone and other organic items. Conservators were concerned that pests and other contaminants might be attracted to the organic matter, particularly the wooden sculptures, which were removed. Photo by Cheryl LaRoche.

3.2 Packing and Shipping Protocol for Transportation of Skeletal Remains to Howard University

When the Bioanthropology Laboratory at Howard University assumed responsibility for the skeletal remains excavated from the African Burial Ground, a scope-of-work and protocol for cleaning, consolidation, stabilization, shipping, and handling was established (Demyttenaere 1993). The scope-of-work for the transportation of the skeletal remains from Lehman College, Bronx, New York, to Howard University, Washington, D.C., was based on a survey of 23 skeletal remains by Nancy Demyttenaere, conservation consultant for the Metropolitan Forensic Anthropology Team.

All courses of treatment and handling were governed by respect for the integrity of the resource. Because of the unique nature and importance of the archeological resource and the cultural and community concerns surrounding it, the protocol was designed to prevent damage and loss of technical or physical evidence.

3.2.1 *Survey of Collection Prior to Transportation*

An independent osteologist, Christopher Null from the University of Oklahoma, surveyed the entire skeletal collection to assess the overall condition of each of the burials and to identify those remains that were in need of immediate attention. The survey was also necessary to identify unique pathologies and to ascertain whether the remains appeared likely to withstand transportation to Howard University. Senior staff, conservators, outside conservation experts, and field staff selected remains that were subjected to a transportation-viability assessment. The GSA also assembled a peer review committee, consisting of Clark Spencer Larson, Ted Rathbun, Philip Walker, and Carrell Cowan-Ricks, to assess the condition of the remains and the transportation options.

A viability assessment was designed to determine if any damage would occur to the bone from vibrational shock and the stress of transport. Prior to transportation, a packing procedure had to be selected. About a dozen specimens were selected to assess the viability of transportation methods. Field records were used to select the skeletal sample. This sample took into consideration a variety of burial conditions, including the matrix composition and chemical components of the soil, as well as geological conditions at the site. Biological factors such as evidence of damage from mold, fungi, and vermin were also considered. Only robust remains were chosen for the test shipment. If damage occurred to these specimens, it would be clear that the compromised remains would also be in jeopardy. Robust remains thus provided a standard against which to measure results. The evaluation was based on the following criteria:

- well-defined provenience;
- robust skeletal material;
- ability to withstand transportation;
- freedom from any unique pathologies; and
- lack of pedestalling (i.e., surrounding soil matrices).

3.2.2 *Transportation Procedures*

Because of the deteriorated condition of many of the skeletal remains, Artex, a fine-art moving and shipping company that had been responsible for moving the Dead Sea scrolls, was selected. The osteologist, art handlers, and conservators worked together to insure that the remains were cataloged and documented and that environmental conditions were recorded. To maintain stable environmental conditions during transport, weather was considered. The initial shipment was postponed because of concerns about the effects of humidity and moisture associated with a rainstorm.

Extraneous material, loose soil, and debris that might cause abrasion were removed. Smaller and more stable bone fragments were wrapped in acid-free paper to prevent abrasion, and packaged together in Coroplast™ containers (Figure 10a). These compartmentalized, corrugated, polyethylene containers were cushioned with rich-fab and Ethafoam®. Intact crania received special housing created to support the skull prior to placing it in the shipping container. Crushed skulls (Figure 10b) required a combination of shipping methods that were addressed individually. Acid-free paper splints with wheat-paste adhesive were also used for stabilization, supporting the weight of crushed areas and keeping them aligned. Rolled acid-free tissue bolsters were placed in areas of loss to stabilize deteriorated skulls that were heavily fractured but not completely disarticulated (Figure 10c). Registration marks were placed adjacent to heavily fragmented areas to monitor shifting during transportation. Packing techniques also insured that if a box was inadvertently turned upside down, the bone would remain secure in its housing. Artex provided a vehicle with heavy-duty suspension, ensuring a smooth, trauma-free ride, and a cargo area that was environmentally controlled.

3.2.3 Results

Thirteen skeletal specimens met the criteria for the viability assessment shipment from Lehman College to Howard University. Upon arrival at Howard University, the boxes were inspected and unpacked; registration markers were checked; and splinted areas were analyzed for further damage, movement, displacement, and shifting. Packets, housing materials, and boxes were evaluated for evidence of loose soil associated with vibrational shock and trauma. The Howard University staff recorded the condition of each specimen, and comparative photodocumentation was evaluated.

The 13 test samples arrived undamaged and revealed little to no shifting during transportation. Very little soil was dislodged, and no damage to the remains was detected. The fragmented skulls showed no evidence of further fragmentation. The remains were not affected by weather and arrived in excellent condition. Based on the success of the viability study, these procedures were followed for the entire skeletal collection, which was subsequently moved to Howard University on the weekend of November 3-5, 1993.

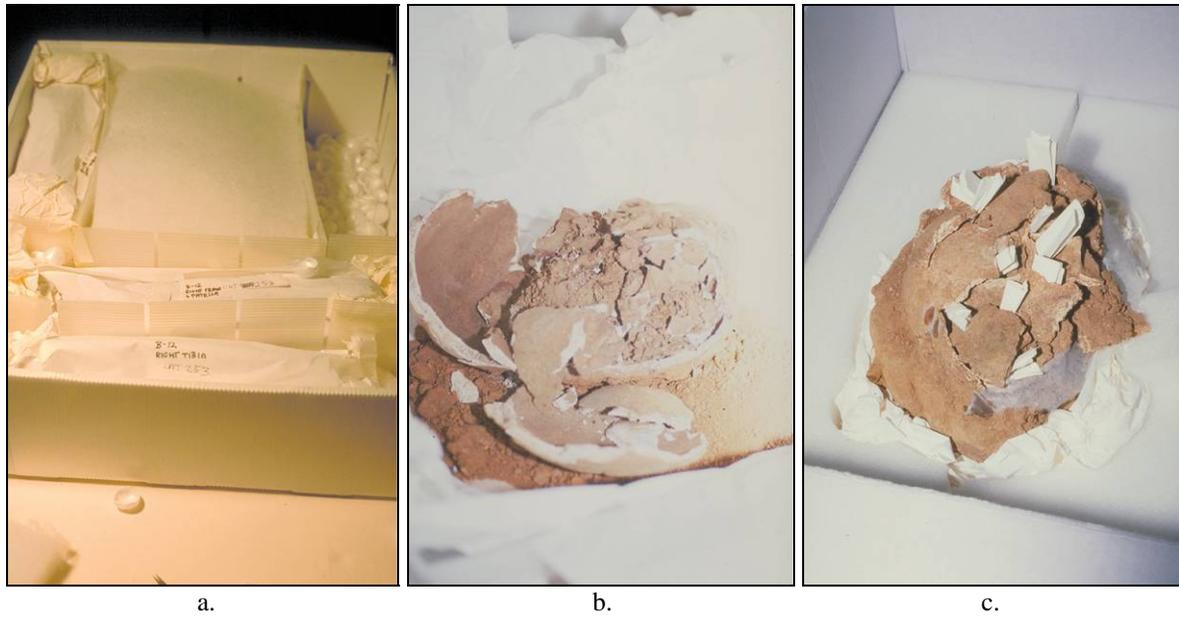


Figure 10. Preparing fragile skeletal remains for packing and shipping: a) compartmentalized box with adjustable dividers to accommodate the various sizes of the wrapped remains; b) example of fragile skull; c) packing methodology for fractured, crumbling skeletal specimens in preparation for transportation from Lehman College to Howard University. Acid-free tissue bolsters support fractured and fragmented areas. Photos by Cheryl LaRoche.

4.0 CONSERVATION PROCEDURES: METHODS

The sections that follow discuss safety standards, collection survey methods, treatment and stabilization strategies, documentation procedures, the coding and database systems, and methods of analysis and instrumentation.

4.1 Safety Standards

Many of the solvents, biocides, and other chemicals necessary for conservation are toxic at varying levels. Hazardous materials may be flammable or corrosive, requiring proper handling, storage, and disposal. Occupational Safety and Health Administration (OSHA) guidelines and safety regulations pertaining to the chemical safety standards followed for the 290 Broadway Block can be found in the Code of Federal Regulations Hazard Communication Standard (29 CFR 1910.1200). JMA also complied with additional federal safety guidelines of the U.S. Customs House installation located at 6 World Trade Center, New York City. The U.S. Customs Service provided the project with separate laboratory space that conformed to code. As required by the code, Material Safety Data Sheets for each chemical product used in conservation were available at the Foley Square Archeological Laboratory.

JMA also maintained the standards defined in the JMA Safety Manual, which prescribed such safety equipment as a fume hood and solvent storage cabinets in the conservation laboratory, spill pillows, eye-wash stations, and a first-aid kit, all of which also comply with the OSHA regulations. Hazardous waste materials also were properly stored and disposed of.

4.2 Collection Survey

After JMA and Howard University assumed responsibility for the work, a collection survey was conducted to determine treatment priorities for the thousands of artifacts excavated from the Courthouse Block and the 290 Broadway Block components of the project. The artifacts found in association with the African Burial Ground were identified in the field as potentially requiring conservation and therefore were not included in the survey. With the exception of coffin nails and tacks, most artifacts from the African Burial Ground were stabilized or treated.

To establish the baseline physical and chemical stability of the collection, a 10-percent, computer-generated, random sample was selected. The survey categorized the artifacts through a ranking system based on physical properties and chemical and biological stability. This was accomplished through visual inspection of corrosion and surface morphology.

The survey ranking system placed objects in three basic categories: (1) stable objects requiring no immediate treatment; (2) objects of reactive materials that would be stabilized through a conservation regimen; and (3) objects of highly reactive materials for which conservation was not advised since treatment would not mitigate their present condition. This category included metals that had been exhausted through the natural course of deterioration, almost completely consumed and converted to oxides. They were deemed stable and not in need of treatment.

After surveying the 10-percent sample, the entire collection was indexed by triage categories for treatment. This treatment regimen was adopted to raise the level of stability of the entire collection. However, primary consideration was given to artifacts with good provenience. This method allowed maximization of the number of artifacts treated within the budget parameters. Unless an artifact was an extremely degraded yet rare representative of its type, priority was given to the artifacts that were in the second category; i.e., deteriorated but treatable.

4.3 Artifact Stabilization and Environmental Controls

Selected robust burial artifacts that were diagnostic and retained morphological and physical integrity were stabilized, fully conserved, reconstructed, and placed on exhibit in the Foley Square Laboratory. Preventative conservation strategies, such as using acid-free or inert storage materials, were adopted for all classes of artifacts. Artifacts were housed in rigid polyethylene boxes, when necessary, to prevent crushing or fragmentation of fragile, embrittled, or desiccated artifacts. The main objectives and goals were to stabilize and protect the artifacts for further study during the analytical phase with the express understanding that the mortuary artifacts from the African Burial Ground would be reinterred with the skeletal remains. The non-mortuary artifacts also received a level of treatment that permitted analysis, study, and display. These artifacts are not slated for reburial and may require further conservation for long-term display or extensive handling.

The complexity of the urban setting and land-use changes affected each artifact as it became a record of the archeological environment. That record can be accessed and understood through archeological conservation. Corrosion by-products are a reflection of chemical interactions between the artifact and its historical and environmental conditions. As each artifact reached a state of equilibrium, a symbiotic relationship with its environment developed. Investigation of corrosion by-products and agents of decay and preservation provides an understanding of the intricacies of that symbiotic relationship and is a routine aspect of conservation.

Once excavated, however, the artifact's equilibrium with its archeological environment was disrupted and the deterioration processes were accelerated, necessitating stabilization strategies. Removing the artifact from the stable archeological environment allowed several chemical and physical reactions and transformations to occur. Knowledge of the period of manufacture associated with the artifact and the environmental stresses to which the artifact had been exposed had implications for treatment decisions. These factors, in turn, affected rates of preservation, which impacted treatment methods.

Excavated artifacts require a stable environment for good preservation. The optimal temperature and humidity levels for a storage environment should remain within 70^o(±5^o)F and 50(±5) percent RH (Rose and De Torres 1992). Several attempts to control the environment, i.e., temperature and humidity within the Foley Square Laboratory, proved unsuccessful due to the physical constraints of the laboratory space. Therefore, polyethylene bags and boxes were used to create a microclimate storage system. Where needed, products such as Art-Sorb® and silica gel were also employed to control the RH within cabinets and storage systems.

4.4 Documentation

The primary method of visual documentation of the collection was photography. Drawings were included when they provided the best documentation of fragmented or obscured artifacts. Condition and treatment documentation were coded and entered into the database system discussed below.

4.4.1 Database System

A conservation coding system was devised to facilitate condition and treatment reporting for the artifacts from the 290 Broadway Block. General conservation codes were established and a database was designed for the project. Alphanumeric condition and treatment codes were assigned to each treated artifact and to each descriptive field. The coding system contained the following fields: conservation identification number, class, material identification, condition, cleaning methods, standard treatments, adhesives, inhibitors, barriers, consolidants, solvents, methods, storage, and comments. The database can be searched and sorted by any of these fields to ascertain treatment approaches. Through the conservation database, percentages of artifacts by classification, distribution of artifacts by material type, and the relationship between the artifact and the agents of deterioration can also be retrieved. The coding system also contains a comment field that was used to address artifact attributes, conservators' observations, or comments by field excavators. Besides the coded comments field, the reporting system contained a general text comments

field, which might contain a general description and artifact identification, method of manufacture, measurements and dimensions, decoration/embossing descriptions, surface treatments, distinguishing shape, shank type, coin identification, etc., when possible. Appendix A contains the conservation-treatment data.

The conservation-treatment data were entered into an artifact- and conservation-management database system developed specifically for the 290 Broadway Block by FlatIron, Inc. The data can be accessed by a variety of reporting programs, such as Crystal Reports Professional 5.0 and MS Access. This database program can also export reports to other spreadsheets and database programs. A conservation identification number, which distinguishes the artifact as having been conserved, also links the conservation database with the artifact database. Each conservation record includes the artifact catalog number, linking the two databases. The entire database has also been converted to MS Access and is available on disk.

Each burial from the African Burial Ground was assigned a burial number and a catalog number to which any associated cultural material was assigned. In the field, identical artifacts with the same function—for example, shroud pins associated with a single burial context—were mapped and drawn but almost always assigned to the one catalog number associated with the burial, and received no further provenience designation. Therefore, these artifacts were treated together. If identical artifacts under a single catalog number exhibited different levels of deterioration and required different conservation treatments, each received a unique conservation number. Identical buttons, for example, were grouped together under an assigned conservation number, and a decimal extension, sometimes assigned in the field, was added to the catalog number to identify discrete artifacts. For this reason, tabulation by conservation number and by actual artifact count will not agree. Distinctions made in the field were maintained in the laboratory. The glass beads associated with Burial 340 are an exception, however: each bead received a unique catalog number in the field.

No provenience information was applied directly to the mortuary artifacts. This decision was based on the fragility of some of the artifacts, on their size, and on the understanding that for some members of the descendant community, these objects are sacred materials that should not be compromised. The mortuary artifacts were meant to accompany the dead into the afterlife, and reburial of the remains and the associated artifacts resumes that interrupted journey.

4.4.2 *Photodocumentation and Digital Imaging*

Photographic slides were made for most of the artifacts treated. The Hitachi Color Digital Imaging System, Targa software, and Kodak color-printing system were used in conjunction with both transmitted- and reflected-light microscopes to digitize, store, and replicate micrographs of artifact detail. The digital-imaging system allowed a volume of images to be stored electronically for viewing whenever necessary. Photomicroscopy is one method of recording and analyzing deterioration, treatment results, and morphology of artifacts. Many of the photomicrographs that accompany this report are digitized images, while others are camera-generated photomicrographs and are so designated.

4.5 Instrumentation

Various methods of analysis were used to investigate the physical and chemical properties of the artifacts from mortuary and non-mortuary contexts. Because of the level of degradation of the artifacts, instrumental and elemental analyses were used to realize the maximum amount of information. Elemental analysis was the preliminary analytical survey technique used to identify materials. Microscopy and archaeometry also contributed to realizing data potential. Methods and results are discussed with individual artifacts.

Many of the archeological samples were not specially prepared for instrumental analysis. Therefore, material identification and analysis are qualitative or semi-quantitative. With the exception of wood identification, the fragmentary nature and small size of the artifacts obviated the need for taking samples. Except where noted, tests were nondestructive. For the purposes of this report, non-destructive testing means that no sample was taken and that the complete object or fragment was investigated.

Several analysts and conservators augmented JMA's in-house staff, either by providing instrumental or elemental analysis, or through expert technical support. These included specialists from the U.S. Custom Service Laboratory at 6 World Trade Center; the Metropolitan Museum of Art: the Cloisters; the American Museum of Natural History, New York City; the Smithsonian Institution Museum of Natural History, Washington, D.C.; the Corning Museum of Glass, Corning, NY; and the Textile Museum, Washington, D.C. Dr. Alan Gilbert, Fordham University, New York City, and Dr. Ann Budd, University of Iowa, Iowa City, kindly gave the benefit of their individual expertise.

4.5.1 Optical Microscopy

The conservators used two microscopes. The Wild reflected-light microscope was the instrument used for investigating the majority of the artifacts. This microscope was equipped with a trinocular head that accepted the Hitachi Digital Imaging System. Color photomicrographs were produced using the digital-imaging system and a Kodak 450GL Digital Color Printer.

The Olympus BH-2 polarizing, transmitted-light microscope was used for the analysis of a wide range of artifacts. The polarizing-light microscope (PLM) is indispensable to the conservator. It was used on this project to identify wood, pigments, fiber, and hair samples; obscured and degraded materials; crystalline structures and corrosion products and by-products; and microbial and biological activity. The PLM used for the project was equipped with a trinocular head that allowed for digital imaging through the Hitachi System and photomicrographs using a Nikon 8000-series camera. As with the reflected-light microscope, color photomicrographs were produced using this system. (For further discussion of the PLM, see McGowan and LaRoche 2000:52.)

4.5.2 X-radiography

A Faxatron X-radiographic machine was used for radiographic analysis of a variety of corroded metallic artifacts where the corrosion levels were high and the concretions and layers of overburden obscured surface detail. In many cases, the harsh archeological conditions had depleted the metal core of the object and reduced it to little more than corrosion. For heavily encrusted artifacts, radiographic technology provided an image of the artifact and of the amount of metal remaining in the artifact. Radiographic images were the basis of analysis for nails, coffin hardware, coins, and other metal artifacts, and were used as a record of the artifact since, often, no further treatment was undertaken.

Coins were X-rayed to retrieve diagnostic surface detail, particularly dates. Coffin handles were X-rayed to determine manufacturing techniques and decorative detail. Nail and tack heads were investigated through radiography to discover the type of nail head and shank. Unidentified corroded masses were X-rayed to determine form and amount of remaining metal.

4.5.3 Scanning Electron Microscopy/Energy Dispersive X-ray Spectrometry

Scanning electron microscopy (SEM) in conjunction with energy dispersive X-ray spectrometry (EDS) allowed nondestructive qualitative and semi-quantitative analysis of the chemical constituents of the selected glass beads. Although SEM with EDS yields limited information regarding elemental analysis, it is the best form of nondestructive, noninvasive analysis available for analyzing elemental composition of glass. SEM is often used for the microstructural characterization of materials. An AMRAY Model 1100 SEM was used to investigate the surfaces of selected glass beads. The elemental composition of the beads was determined with a KeveX Model Delta IV located at the Metropolitan Museum of Art, New York (LaRoche 1994:47). For the 290 Broadway Block, SEM/EDS was used to gain greater understanding of glass corrosion and glass formulations through the investigation of surfaces. High resolution and great depth of field make SEM investigation of a weathered glass surface possible.

4.5.4 X-ray Fluorescence Spectroscopy (XRF) and Emission Spectrography

X-ray fluorescence and emission spectrography were analytical methods used as qualitative and semi-quantitative methods of determining elements contained in metallic artifacts, wood surface treatment, and selected soil samples. The Jarrel Ash Standard Varisource Emission Spectrograph was used to study a silver ornament removed from the soil matrix associated with the remains of a child, after the burial and its matrix were moved to Howard University. The Jordan Valley Applied Research X-ray fluorescent spectrometer model EX 300 yielded semi-quantitative results for the study of coffin wood surfaces and soil samples (see Appendix B). This method provided elemental concentrations that could be used with reasonable accuracy (semi-quantitative analysis) without the preparation of any standards or any preliminary calibration.



5.0 CONSERVATION PROCEDURES: AFRICAN BURIAL GROUND MATERIALS

This section addresses treatment methods by material for mortuary artifacts, focusing on treatment of the most frequently encountered material types. Unique artifacts or composite materials may have received one or more of these treatments. The artifacts discussed in association with each category of material were chosen to illustrate the results of analytical techniques or to address conservation of artifacts with decorative detail that contain analytical or interpretive data. Other artifacts of distinctive character and/or limited frequency at the African Burial Ground were also included. For treatment and conservation procedures applied to individual artifacts or groups of similar artifacts, see treatment records in the Conservation Inventory, Appendix A, of this volume.

The aggressive nature of the archeological environment often robs artifacts of their inherent stability and integrity and obscures the original components and materials so that identification of even commonly recognizable materials is difficult. Concretions and overburden obscure what were once well-crafted artifacts rendered in durable, highly prized materials. In aggressive archeological environments, the chemical reactions and corrosion products leave an artifact devoid of its original patina, surface beauty, polish, detail, strength, and durability, properties for which materials were often sought.

5.1 Inorganic Materials and Artifacts

An abundance of inorganic materials routinely survives in the archeological record. The survival of these durable artifacts is indicative of a chemical structure that withstands a range of burial environments. Archeologists rely on this class of artifact for dating and site interpretation, even when the artifacts are degraded and accreted. This section discusses the conservation and analysis of a sample of metal objects, glass beads, composite materials, and geological material.

5.1.1 *Copper*

The majority of artifacts treated were metal alloys that exhibited the adverse effects of a wide variety of corrosive deteriorants. All copper-alloy artifacts were first desalinated to mitigate the effects of chlorides. The most robust copper-alloy artifacts were mechanically cleaned with small hand tools such as scalpels, dental tools, or hand picks. Selected artifacts with enough physical integrity to withstand more aggressive treatment were either air abraded, cleaned ultrasonically, or cleaned with a flexible shaft tool in preparation for the next treatment phase. Copper artifacts were treated by vacuum-impregnation with a solution of 3 percent benzotriazole (BTA) to inhibit corrosion and a barrier coating of 12 percent Acryloid B-72 in xylene. Where noted in the treatment records, selected artifacts received an alternate treatment of Inralac, a proprietary material formulated with BTA in a urethane acrylic resin.

5.1.1.1 *Coins*

Eight coins were recovered from five mortuary contexts: Burial 135, Burial 230, and Burial 242 each had two, and Burial 214 and Burial 259 each had one. Coins were carefully hand-cleaned mechanically to remove corrosion and to determine if surface detail had survived. No coins from the African Burial Ground had surface detail that was visible without magnification or X-ray.

George II halfpenny, Burial 135, cat. no. 880

Description

George II halfpenny (1727–1760). Copper-alloy coin from left eye orbit. Diameter: 3 cm.

Condition

Heavy surface layer of copper carbonates and bronze disease. The badly degraded condition of this and other coins may be due, in part, to their proximity to soft tissue.

Treatment

Overburden mechanically removed to the surface interface. Coin X-rayed at the Metropolitan Museum of Art to determine the presence of surface details (Figure 11). It was determined from the diameter and from the silhouette and profile evident from the X-ray that the coin is probably a George II halfpenny.

5.1.1.2 Buttons

Several buttons were recovered from burial contexts. Where supported by *in situ* configuration and strong provenience, the presence of buttons in association with burials may be interpreted as evidence of clothing. Where buttons and shroud pins are associated with burials, it may be inferred that both clothing and shrouding were associated with the burial (Hunt 1994:92). The absence of buttons, however, cannot be interpreted as an absence of clothing, as clothing could have had cloth ties or fasteners.

Cast button with gilt face and anchor-and-rope design, Burial 6, cat. no. 219

Description

Four cast, copper-alloy buttons with gilt faces and applied loop shanks were recovered. An anchor-and-rope design was chased on the front. Diameter: 1.7 centimeters (Figure 12).

Condition

One of the four buttons was in excellent condition. Another had recognizable surface detail and evidence of a gold gilt surface. Two were degraded, with little to no surface detail remaining, but the extant anchor motif was visible without the aid of magnification. Copper carbonates and copper chlorides were bound to the surfaces, but evidence of gold gilt and motif was not obscured on the two best-preserved buttons. Some disruption to the metal surface was apparent.

Treatment

Desalinated in deionized baths and mechanically cleaned with a scalpel to remove overburden but preserve gilt surface. Vacuum-impregnated with BTA and B-72®.

Discussion

The buttons may be associated with the British Navy (Calver and Bolton 1950:121). The buttons from this burial were spaced in a line along the torso, suggesting their use as fasteners. The buttons indicate a burial in a garment although no fibers or other cloth materials survived in association with the buttons from this burial.

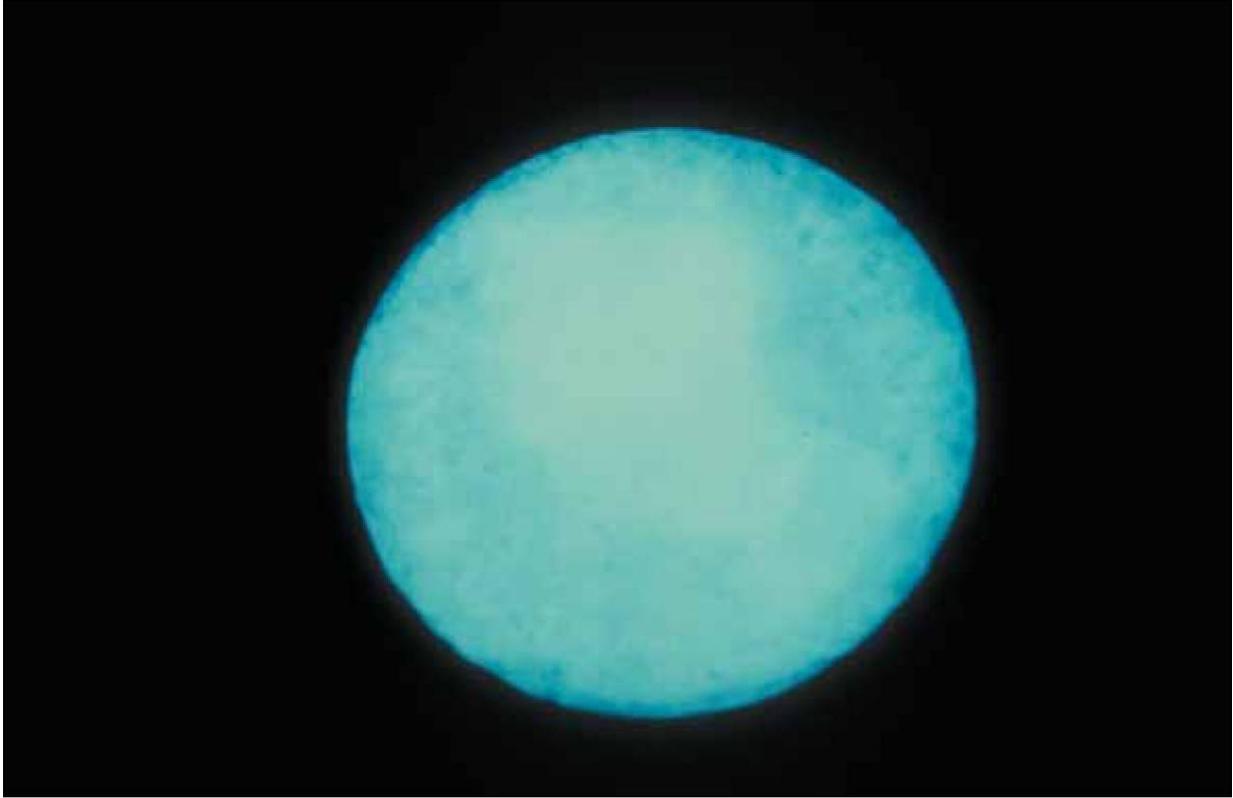


Figure 11. George II coin, Burial 135, cat. no. 880, X-radiograph. Courtesy of the Metropolitan Museum of Art.



Figure 12. Gilt button with anchor-and-rope motif, Burial 6, cat. no. 219. Photo by Doville Nelson.

5.1.1.3 *Shroud Pins*

Description

Shroud pins were recovered from 159 burials. All pins recovered from the African Burial Ground were wrapped-head, copper-alloy pins (Figure 13a). Some appear to have had a tinned surface. Although most pins were fragmented, an intact pin measured 2.5 centimeters.

Condition

Pins were mineralized and highly fragmented, often consisting of only corrosion product. Microscopic evidence of tinning could be detected on a few fragments. Except where noted, no intact pins were excavated.

Treatment

With the exception of pins retrieved from the pedestals at Howard University, all pin fragments were first desalinated. Pins were then batch-treated with a corrosion inhibitor, vacuum-impregnated with the acryloid B-72, and stored with ethafoam in polyethylene boxes.

Discussion

According to Noël Hume (1969:254), by the beginning of the seventeenth century, pinheads were fashioned by wrapping a wire three turns around the shank, as is visible in Figure 13b. The presence of pins implies the presence of shrouds, although the percentage of cloth that has survived in comparison to the pins is extremely low. Burials with pinheads have been noted in the comments field of the conservation database.

5.1.1.4 *Finger Rings*

Finger rings are among the few non-clothing-related personal effects recovered from the burials. Rings were found in association with five burials: Burial 71, Burial 115, Burial 242, Burial 310, and Burial 398. Plain bands and two rings with settings were recovered. Two different burials, Burial 242 and Burial 310, contained identical copper-alloy rings with glass insets.

Ring with centerpiece and insets, Burial 242, cat. no. 1229

Description

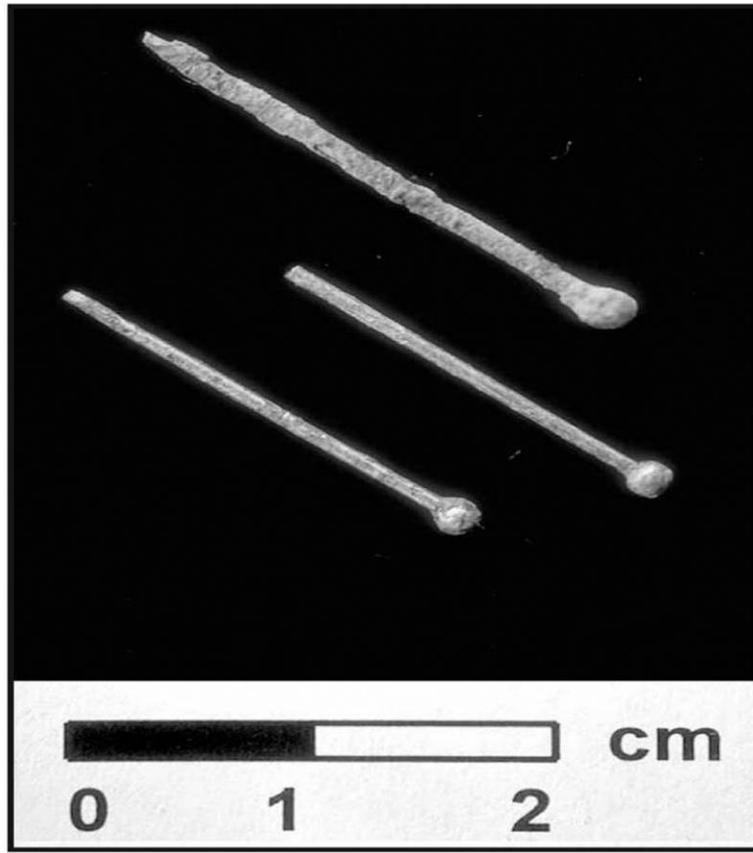
Copper-alloy ring fragments with an oval clear-glass centerpiece and three faceted, blue-glass insets on either side of the center setting. The center inset measured 6 millimeters in diameter and the blue glass facet insets measured 3 millimeters in diameter. The manufacturing technique was cast metal. Approximately 65 percent of the ring was present.

Condition

The ring was highly fragmented with deterioration of settings for the central glass inset and the faceted blue side insets. A large portion of the metal content of the fragmented band had deteriorated. The ring portion existed as mineralized corrosion product and was quite fragile.

Treatment

After desalination of the metallic portions of the ring, the fragments were vacuum-impregnated with BTA and B-72®. The ring fragments were then reassembled and reconstructed, using B-72® as an adhesive, and the glass insets were placed into their settings. The ring was not restored, however; voids and missing portions were not filled. The ring had little structural stability and should not be handled (Figure 14, bottom).



a.



b.

Figure 13. Tinned wrapped-head pins: a) from various burial contexts; b) pin showing wrapped head, Burial 405, cat. no. 2071. Photos by Josh Nefsky.



Figure 14. Reconstructed finger rings with glass insets: Burial 310, cat. no. 1486 (top) and Burial 242, cat. no. 1229 (bottom). Photo by Cheryl LaRoche.

Ring with centerpiece and insets, Burial 310, cat. no. 1486

Description

This copper-alloy ring had its band and face cast as one unit. It appeared to be identical to the ring from Burial 242. The central glass inset was missing, but the casing for the setting remained and measured 6 millimeters. One of the six faceted glass insets that were mounted three on each side was also missing (Figure 14, top). The blue glass side insets measured 3 millimeters. The inside band diameter measured 1.8 centimeters.

Condition

The ring was fragmented and mineralized. Although the metal associated with this ring was more robust than that of Burial 242, the ring was fragile.

Treatment

The ring was mechanically cleaned and was vacuum-impregnated with the corrosion inhibitor BTA. A barrier coating of acryloid B-72® was applied.

The ring associated with Burial 310 was recovered from the pedestalled remains at Howard University, but the ring from Burial 242 was recovered in the field in 1992. The rings appear to be similar to those excavated from Fort Michilimackinac (1715–1781) except the center glass inset was not faceted in the ring from Burial 242 at the African Burial Ground (Stone 1974:123–125, Figures 57A and 58A). The central decorative details of the copper-alloy setting had not survived for Burial 242, and the central glass inset was missing for the ring recovered from Burial 310.

5.1.1.5 *Circular Copper Ring Fragments*

Copper ring fragments, Burial 147, cat. no. 892

Description

Curved ring fragments, approximately 1.1 centimeters in diameter, excavated from Burial 147.

Condition

The fragments were corrosion products with little to no metal remaining. These were not finger rings but may have been some type of decorative appointment, the function of which is unclear.

Treatment

The fragments were first treated with BTA and B-72. Based on a description of the configuration of the rings in the field notes, they were then reconfigured and heat-mounted onto a piece of linen coated with Beva heat-reacting film. Although the artifacts were of indeterminate function, had these fragments not been reconfigured, they would have been difficult to visualize (Gary McGowan 1998, personal communication).

5.1.1.6 *Sleeve Links*

Sleeve links (cufflinks) are considered clothing-related artifacts (Calver and Bolton 1950:228). The presence of sleeve links, when supported by *in situ* placement and accurate provenience, may be considered evidence of clothing that has not survived the burial environment. Eleven copper-alloy sleeve links were associated with nine burials: Burial 158 and Burial 238 each had a pair; Burial 10, Burial 181, Burial 211, Burial 341, Burial 387, Burial 392, and Burial 398 each had one. An additional sleeve link, the enameled sleeve link associated with Burial 371, is discussed in Section 5.1.6.1.

Oval sleeve links, Burial 158, cat. no. 903

Description

Two stamped copper-alloy sleeve links with applied shank and link were recovered. One sleeve link was intact and the other was fragmented. Round in shape with a diameter of 1.7 centimeters, the shank measured 1.8 centimeters.

Condition

Copper carbonates and copper chlorides associated with bronze disease were present. The backs of the sleeve links were heavily corroded with a tenacious carbonate layer, but a high percentage of the metal was present.

Treatment

The sleeve links were mechanically cleaned with a scalpel and then soaked in deionized water to passivate the chlorides. They were vacuum-impregnated with 3 percent BTA and B-72®.

Octagonal sleeve links, Burial 238, cat. no. 1224

Description

A pair of octagonal-shaped, cast, chased, copper-alloy sleeve links with cast shank and drilled eye was recovered from this burial. The loop was soldered in place, and the circular central pattern was encompassed by an octagonal design, 1.5 centimeters wide. An egg-and-dart motif surrounded the center circle and formed the outer panel. The surface decoration was identical to the one in Burial 341. Figures 15a and 15b show the artifact at mid-treatment.

Condition

The artifact had little remaining metal. Bronze disease and copper carbonates were present on a large portion of the surface. The links were intact but encrusted with copper carbonates.

Treatment

The sleeve links were soaked in deionized water and the surface was treated with a 1 percent solution of formic acid to loosen and soften the corrosion products. The weakened condition of the artifact precluded the aggressive mechanical cleaning required to expose the intricate surface detail. The artifact was slowly cleaned with a scalpel and deionized water to loosen the corrosion. After the artifact was cleaned, it was again placed in baths of deionized water to clear the formic acid. The sleeve links were vacuum-impregnated with 3 percent BTA and B-72® (Figure 15c).

Octagonal sleeve link, Burial 341, cat. no. 1652

Description

This octagonal sleeve link was cast-copper alloy like the one in Burial 238. The shank portion was cast and drilled and the loop soldered in place. The egg-and-dart motif radiating from the center was 1.8 centimeters wide. The decorative motif and shape shown in Figure 16 were comparable to those in Burial 238.

Condition

Same as for Burial 238.

Treatment

Same as for Burial 238.

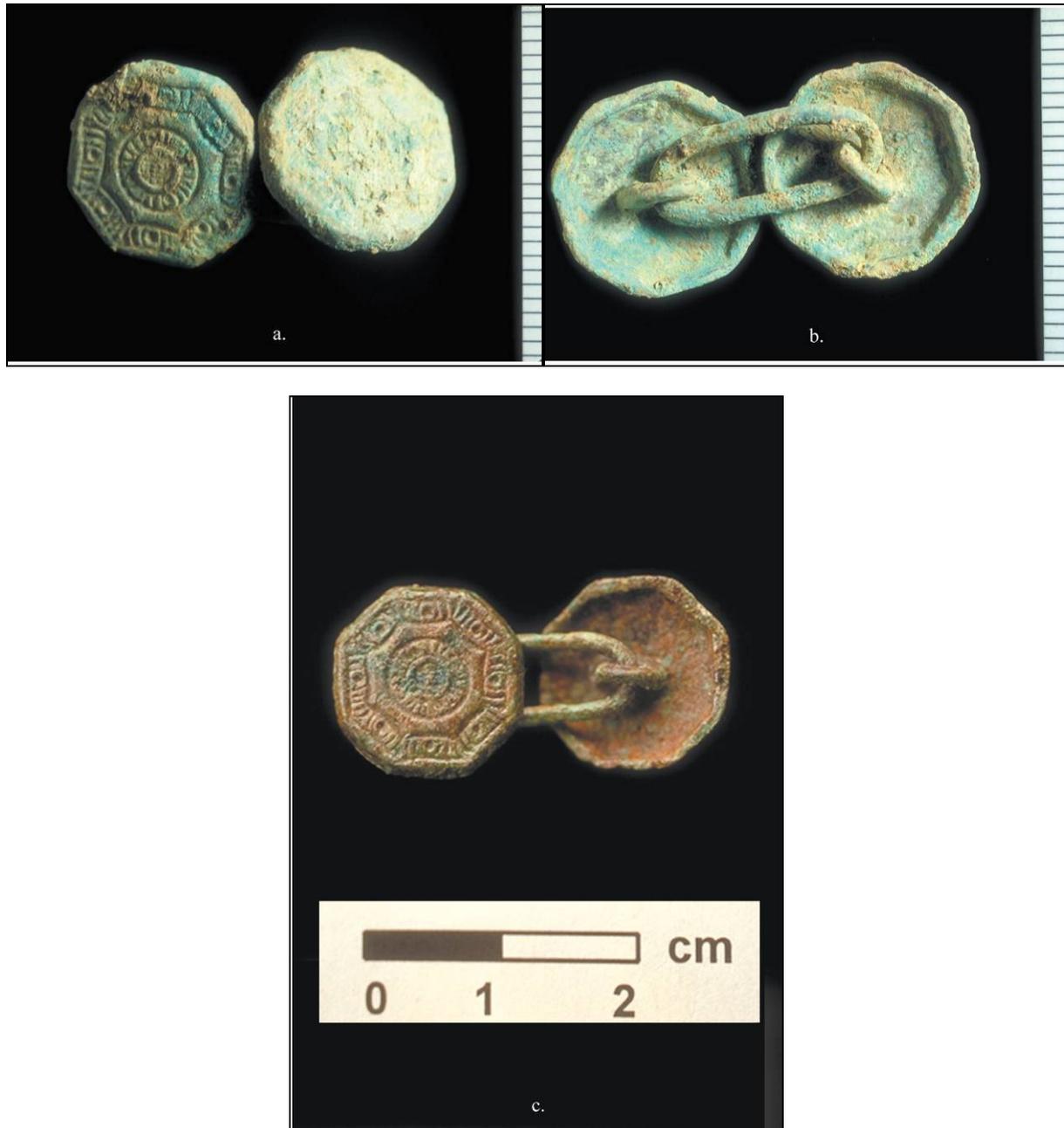


Figure 15. Octagonal sleeve link, Burial 238, cat. no. 1224: a) obverse at mid-treatment; b) reverse at mid-treatment; c) sleeve link with corrosion products removed. Photos by Josh Nefsky and Cheryl LaRoche.



Figure 16. Octagonal sleeve link, Burial 341, cat. no. 1652.

Octagonal sleeve links with generally similar designs were found at Fort Michilimackinac (Stone 1974:Figure 37, Table 18). Examples from both locations had cast shanks and drilled eyes. Stone suggests a date after 1750 for the similar octagonal sleeve links (Stone 1974:76). Similar sleeve links have also been identified at Lake George, New York (Calver and Bolton 1950:27–28).

5.1.2 Iron

Traditionally, the treatment of iron was first to render the material inactive by removing the chloride contents through a desalination process of either hot washing or repeated, aggressive rinse baths using deionized water. Although these methods have been used for more than 20 years, in recent studies archeological conservators suggest that the chlorides are not being adequately leached from the materials and those chlorides that remain within the metal are actually driven deeper into its microstructure (Cronyn 1990; Watkinson 1996). Therefore, there was a change in method during the course of the project. African Burial Ground coffin hardware and other iron artifacts treated in 1992 were desalinated, while nails and coffin tacks were not.

Few investigative techniques can be applied to heavily accreted materials to determine the amount of uncompromised metal remaining within corroded masses. Conventional methods such as electrolytic reduction or electrochemical treatment, which are often too aggressive, were considered inappropriate for many of the iron artifacts. Selected iron artifacts were X-rayed to determine manufacture, decorative detail, function, use, and remaining metal content. For many of the nails, tacks, and coffin hardware too degraded to withstand the pressures of mechanical cleaning, X-radiography was the most viable method of retrieving analytical information.

5.1.2.1 Coffin Furniture and Tacks

Coffin furniture or tacks were found in association with 11 burials. Coffin handles were definitively identified in Burials 90 and 176. Comparative analysis and identification of the handles were based on radiographic investigation. The coffin handles in these two burials had identical decorative motifs, shapes, and methods of manufacture. The style of the hardware appeared to be unique (Figure 17). One handle was associated with Burial 90. Based on the placement shown in Field Drawing 1062, Burial 176 originally had six handles; fragments of four were extant. Several other pieces of coffin furniture were too degraded to identify. Two of the burials, 210 and 239, had corroded pieces of metal that may also be coffin handles.

Tacks were found in association with seven burials: Burial 101, Burial 138, Burial 176, Burial 197, Burial 222, Burial 332, and Burial 256. The tacks were systematically arranged on the coffin lids associated with three burials: Burial 101, Burial 176, and Burial 332.

Coffin handles, Burial 90 and Burial 176, cat. nos. 833 and 942

Description

Details were retrieved through X-radiography of three iron masses that revealed fragmented, hand-wrought iron coffin handles. Burial 176 contained other iron masses that were not subjected to X-radiographic analysis but may also be fragments of coffin hardware. The handle had a reverse bale with projecting, oval-shaped ears. Strike marks indicative of hand forging were clearly visible along the outer edges. Two chevron-shaped areas cut into either side of the center of the back plate provided a decorative motif (Figure 18b). Score marks for the cutout of the chevrons were visible in the X-ray (Figure 18b). Holes for the screw attachments were visible.

Condition

Several amorphous, heavily concreted and corroded iron masses were recovered from Burials 90 and 176 (Figures 3a and 18a). The corrosion products were iron oxides with a few stones or other debris bound in the concretions. The corroded overburden on the coffin handle from Burial 176 has not completely obscured the shape of the ear portion (Figure 18a).

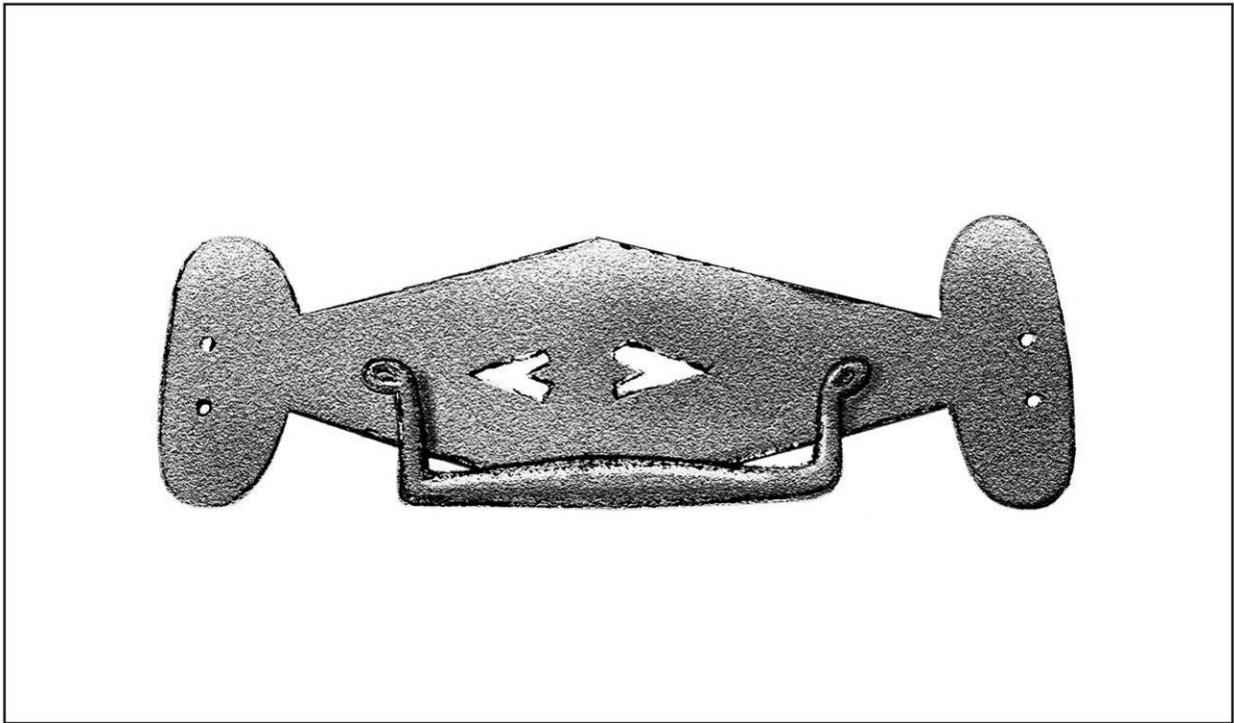
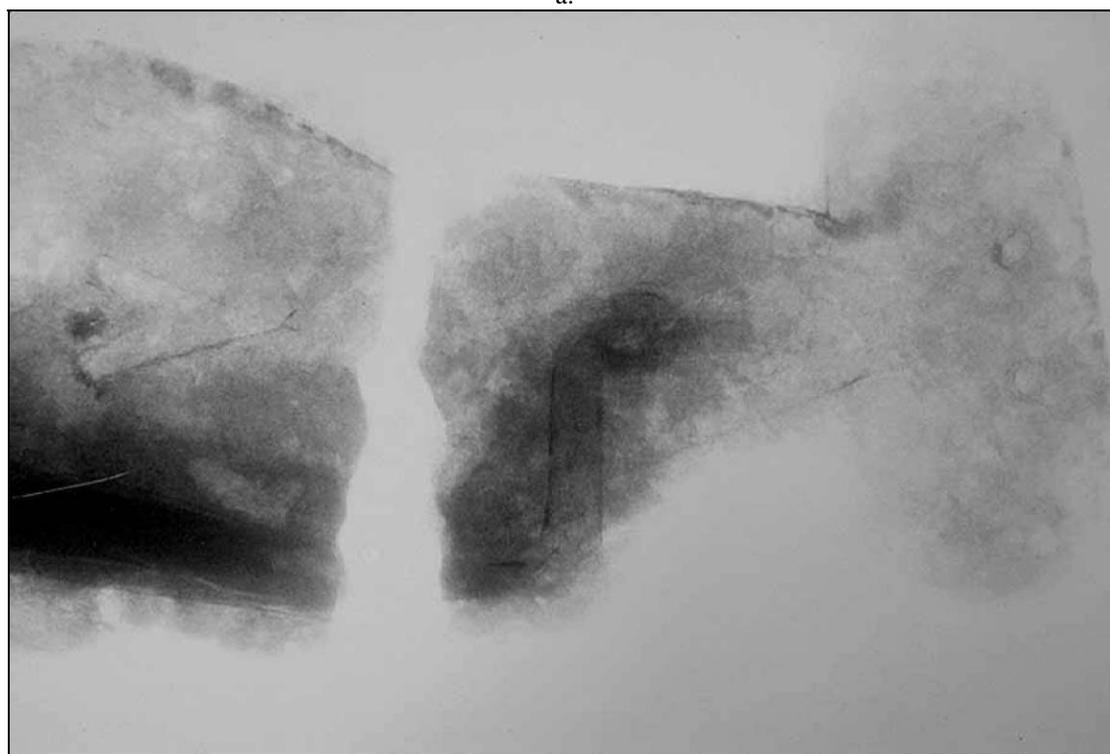


Figure 17. Composite drawing of coffin hardware based on X-rays of pieces from Burials 90 and 176. There are slight dissimilarities between the hand-wrought handles, particularly in the placement of the central pierced-chevron motif and the bale attachment. The lack of uniformity or identical placement is consistent with hand-crafting of the materials. Drawing by Cheryl LaRoche and Robert Schultz.



a.



b.

Figure 18. Coffin handle, Burial 176, cat. no. 942: a) corrosion in the shape of the ear of the coffin hardware, on the left. Photo by Cheryl LaRoche; b) X-ray of coffin handles shows the ear of a coffin handle; screw holes are clearly visible. Compare to Figure 3, which shows chevron central motif with score marks; forged outer edges and bales are visible on the right. Slight differences between the pieces from Burials 90 and 176 are evident.

Treatment

The corroded masses were first placed in baths of deionized water for desalination. After the chlorides were passivated, the corrosion products were X-rayed. No further treatment was undertaken.

Coffin tacks, various cat. nos.

Description

Tacks were obscured by a thick layer of corroded overburden. Selected tacks were identified through X-radiography.

Treatment

Coffin tacks were desalinated in successive baths of deionized water, but received no further treatment. All tacks were sent to Howard University staff for analysis.

5.1.2.2 *Nails and Screws*

Nails and screws were not treated although several were X-rayed. All nails and radiographs were sent to the Howard University staff for analysis.

5.1.2.3 *Animal Shoe*

This item was originally identified in the field as a possible piece of coffin hardware. It was found inside the coffin of Burial 15. An X-ray of the item showed that it was an animal shoe instead.

Ox- or Horseshoe, Burial 15, cat. no. 286

Description

A portion of one animal shoe was recovered. Shape, morphology, and other identifying features were obscured by concretion.

Condition

The object was a mass of iron-oxide corrosion with stones incorporated in the overburden (Figure 19a). The artifact was stable in the corrosion.

Treatment

The object was first X-rayed for identification and amount of metal remaining in the corrosion (Figure 19b). The object was treated in baths of deionized water to remove chlorides. The corroded mass was then treated with a petroleum-distillate sequestering agent that loosened the corrosion, revealing an ox- or horseshoe, which was still imbedded in corrosion.

Discussion

X-rays revealed that the curved lower portion of the artifact matches the size and shape of an ox shoe or a portion of a seventeenth-century horseshoe (Calver and Bolton 1950:218–219; Noël Hume 1969:237–239). Although the artifact appeared to be a fragment of an ox shoe, the distinctively shaped portion of the shoe that would clearly identify it as an ox shoe was missing (Figure 19c). This was the only animal shoe recovered from the African Burial Ground.

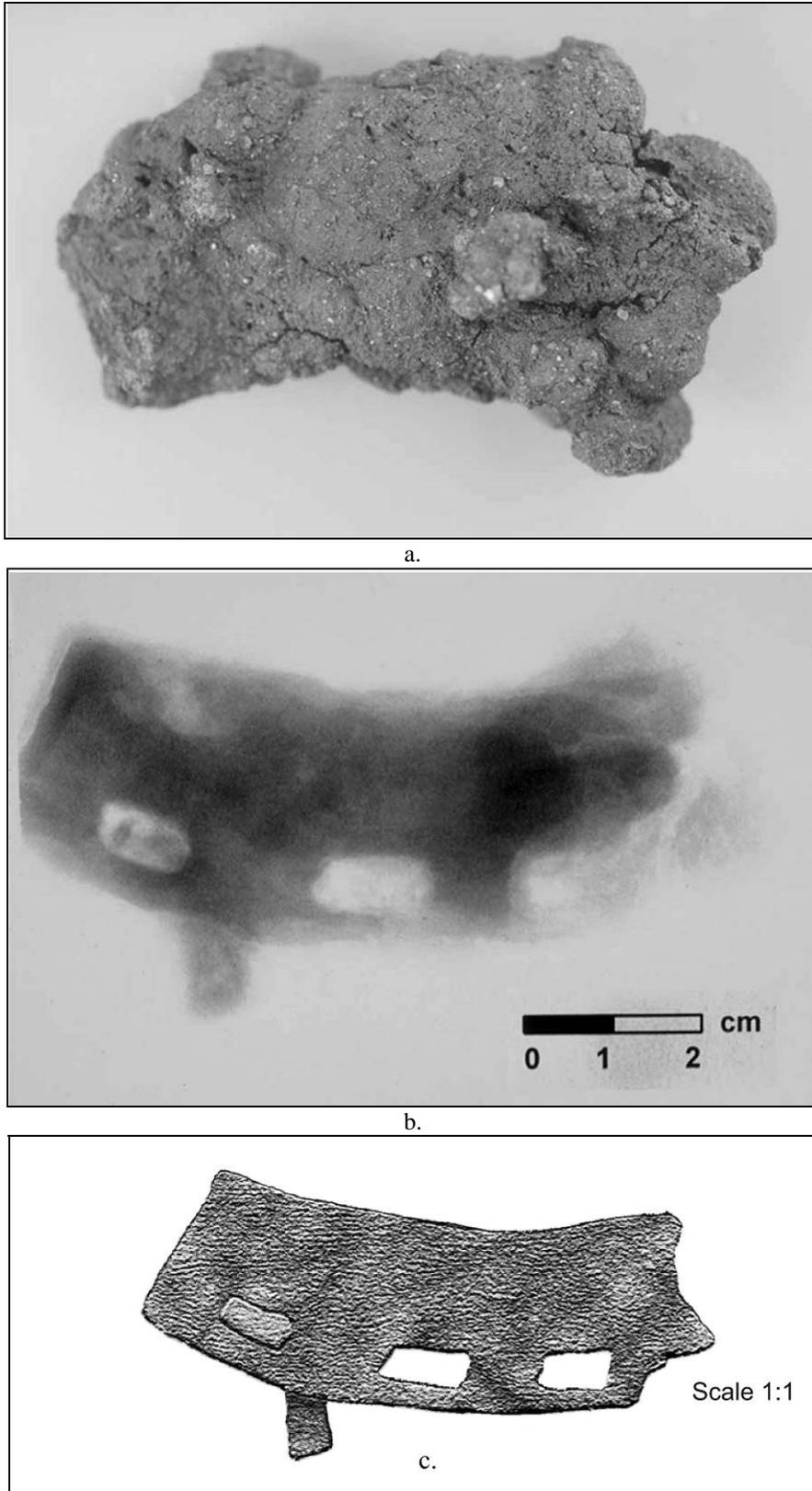


Figure 19. Ox- or horseshoe, Burial 15, cat. no. 286: a) metal mass obscured by corrosion; b) X-ray of corrosion reveals an animal shoe; c) drawing of ox- or horseshoe. Photo and drawing by Cheryl LaRoche and Robert Schultz.

5.1.3 Lead and Its Alloys

Lead-alloy artifacts were represented by pewter buttons and lead shot. Eight burials contained 11 lead shot: Burial 6, Burial 25, Burial 31, Burial 62, Burial 173, Burial 191, Burial 210, and Burial 326. The diameter of nine lead shot ranged from 1 millimeter to 4 millimeters; two larger shot, possibly musket balls, were originally 16 or 17 millimeters in diameter. Burial 326 contained four shot ranging from one millimeter to 4 millimeters. The nine small shot were deposited with the burials. Burial 25 contained 1 17-millimeter lead musket ball imbedded in the skeletal remains. The other musket ball was found in the grave fill south of Burial 62. The lead shot from Burial 25 was mechanically cleaned and coated with a microcrystalline wax.

Most of the pewter and lead-alloy buttons excavated from the graves exhibited an advanced level of deterioration and had already reached a state of equilibrium. Button shapes and decorative detail had been compromised through the loss of metal components. The water-soluble lead component of the alloy had broken down, dissolved, and leached out of the material, leaving behind a malformed, misshapen, tin-oxide component of the alloy. This type of degradation renders artifacts unresponsive to conventional conservation techniques. Therefore, hands-on conservation treatment to maintain their condition was not necessary. Pewter and lead artifacts were stored in polyethylene boxes using archival ethafoam to minimize crushing and abrasion.

5.1.4 Silver and Its Alloys

One artifact that appeared to be silver or silver alloy was found. The silver ornament came from Burial 254.

Silver ornament, Burial 254, cat. no. 1243

Description

A cast-silver ornament was recovered from a soil matrix undergoing cleaning at Howard University. The upper portion had a slightly twisted metal hoop 1.6 centimeters wide and 9 millimeters long, which attached through the center of a sphere 9 millimeters in diameter. A jump ring was attached to the bottom of the sphere, from which hung a 1.8-centimeter-long teardrop dangle. The overall piece measured 3.7 centimeters in length (Figure 20a).

Condition

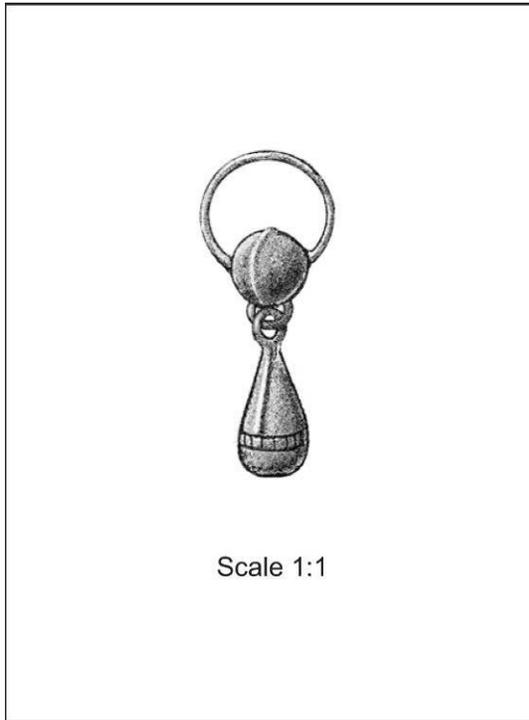
The corroded metal was a grayish white and was not readily recognizable as silver. The corrosion product present was pale, white, and waxy (which implied a purer grade of silver). At the lower, bulbous portion of the teardrop, the surface layers were disrupted and discontinuous. Although silver is a noble metal, archeological silver can be quite delicate and brittle. Silver corrodes intergranularly, with some silver chloride depositing *in situ* and some being extruded. The artifact's brittleness was probably caused by intergranular corrosion deep within the alloy.

Treatment

The surface was mechanically cleaned to remove the silver chloride crust. This work was performed under a microscope to distinguish the corrosion products from the underlying metal surface. Because of the patterns of degradation associated with silver, the artifact received minimal surface cleaning. The damaged portion was repaired with a B-72 adhesive. The metal content of this artifact was difficult to identify. It was subjected to X-ray fluorescence emission spectroscopy to determine its chemical composition and was treated with Acryloid B-72, which acted as both a barrier coating and a consolidant (Figure 20b).

Discussion

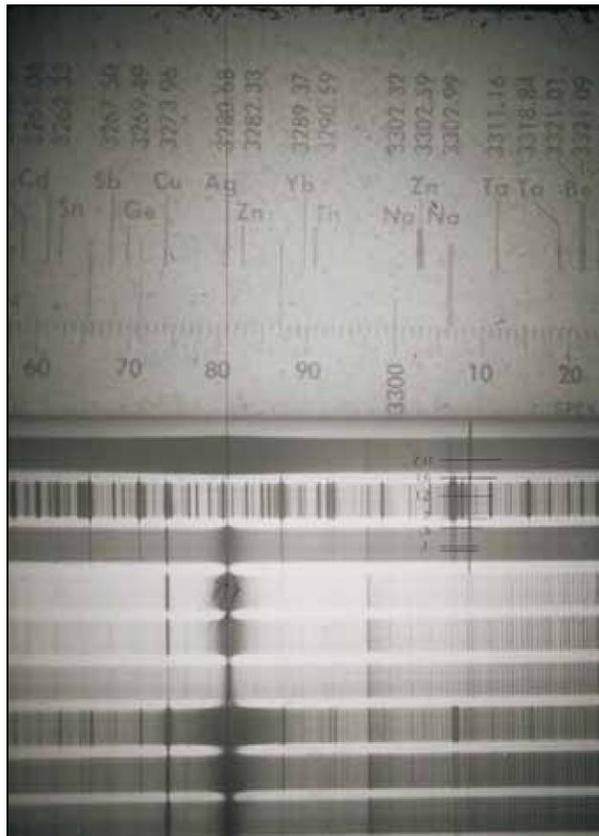
Ornaments with this form are often called earbobs. They are often found in Native American contexts and appear to have been available in a variety of sizes (Carter 1971:59).



a.



b.



c.

Figure 20. Silver ornament, Burial 254, Cat 1243: a) drawing of reconstructed item; b) photograph of reconstructed item; c) spectrograph showing high silver content. Photo by Cheryl LaRoche. Drawing by Cheryl LaRoche and Robert Schultz.

5.1.4.1 *Methods*

The conservators arranged for elemental analysis of this silver artifact since the corrosion patterns and corrosion products were not straightforward. Unlike copper or iron artifacts, the metallic composition of the artifact could not be readily deduced from the corrosion products and surface appearance, which frequently can be difficult to interpret or recognize (Cronyn 1990; Sease 1994).

John Boyd, analytical chemist, U.S. Customs Service, conducted archaeometric analysis of this artifact to determine its metal content. The artifact was first investigated by X-ray fluorescence using the Kevex 7000 to provide qualitative analysis of the basic elements present. The results of the analysis indicated the presence of silver.

When it was established that silver was present, a more discriminating test, employing the Jarrel Ash Emission Spectrophotometer, was used to provide both qualitative and semi-quantitative measurements. A small sample was also removed from the inner plane of the upper ring for emission spectrophotometry, a destructive test. A 0.5-millimeter sample was placed in a carbon electrode. The sample was converted to a vapor that was focused magnetically onto a detector. The results were emitted as light, which was presented as a spectrum on a plate (Burgess 1990).

5.1.4.2 *Results*

The emission results indicated that the sample was “pure” silver, which normally contains at least 92.5 percent silver (Cronyn 1990). The silver content of the African Burial Ground ornament appears to be high, perhaps as much as 94 to 100 percent silver (Figure 20c).

During the process of degradation, the surface of the silver may have become enriched as ions of constituent components of alloyed materials migrated and extruded into both the corrosion products and the surrounding soils, thereby redepositing silver on the surface of a corroding alloy. This would account for both the presence of a high quantity of silver in the corroded crust and the high silver content of the artifact (Figure 21).

5.1.5 *Glass Beads*

A total of 148 beads representing 14 varieties was recovered from seven burials: Burial 107, Burial 187, Burial 226, Burial 250, Burial 340, Burial 428, and Burial 434 (Figure 22). The majority of the 148 beads (113 beads representing eight varieties) were recovered from a single burial, Burial 340. One hundred forty-six of the 148 beads were glass, one was bone, and one was amber. The beads were classified according to bead type (using codes like WIIB*), based on an expanded version of the taxonomic system developed by Kidd and Kidd (1970), as presented by Karklins (1985) and discussed by LaRoche (1994, 1995).

In consideration of potential future analytical requirements, the majority of the beads were cleaned but not treated. The bead assemblage from the African Burial Ground exhibited a range of conditions, from little visible evidence of corrosion to complete loss of vitrification. Similar or identical beads of the same type of manufacture, style, color, and shape that were recovered from a single context generally exhibited comparable levels of corrosion and deterioration. LaRoche's publications (1994, 1995) discuss the beads recovered from the African Burial Ground.

Selected beads recovered from Burial 340 were investigated using elemental analysis. Scanning electron microscopy (SEM) was conducted on five of the beads recovered from Burial 340 and one comparative sample bead from Newton Plantation, Barbados (Handler and Lange 1978; LaRoche 1994, 1995). The goal of the analysis was to understand the beads' chemical components with the expectation that this information might aid in understanding the mechanisms of glass corrosion and in determining or corroborating places or dates of manufacture (Newton and Davison 1989:193–196; Pollard and Heron 1996:190).

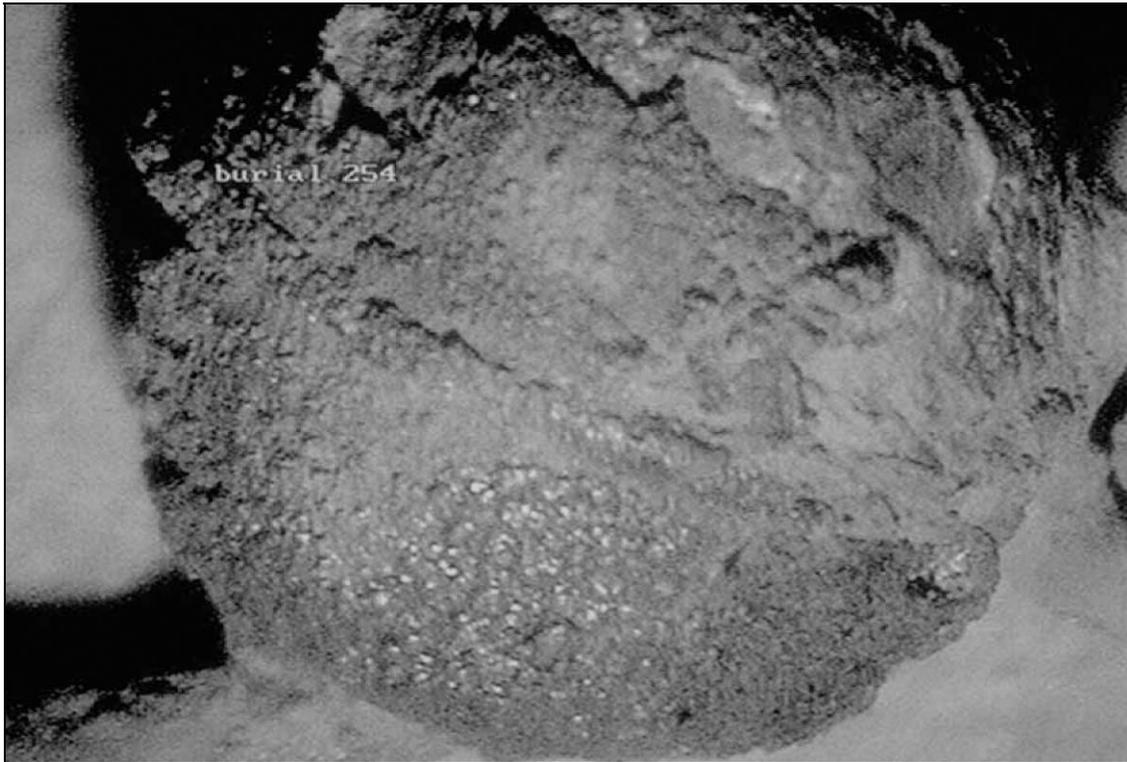


Figure 21. Photomicrograph detail of central ball portion of silver ornament showing corrosion pattern associated with silver, Burial 254, cat. no. 1243.

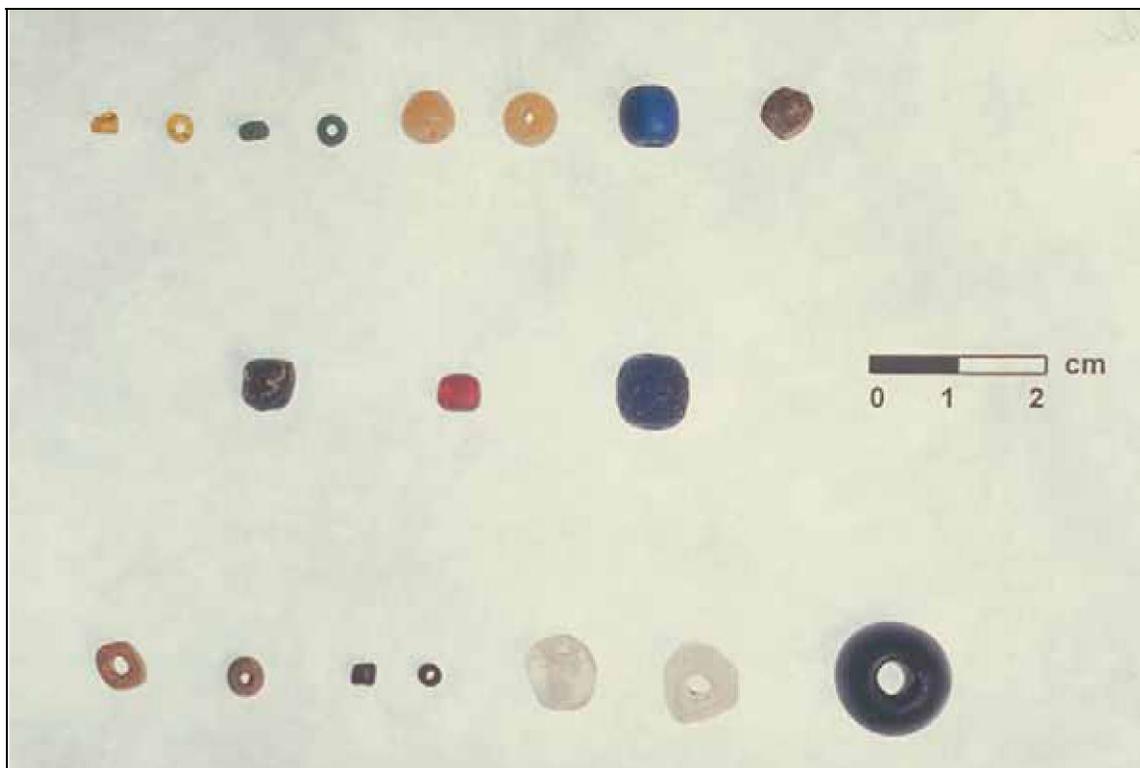


Figure 22. Bead assemblage from the African Burial Ground. Photo by Doville Nelson. Key: R=row; #=position in the row; tsp.=transparent; op.=opaque; †additional bead recovered during processing of skeletal remains at Howard University; ††not shown; ?manufacturing technique uncertain.

R1 (top): Burial 340, cat. no. 1651: #1–2, IIa* (tsp. light gold), 16[†] specimens; #3–4, IIa* (tsp. blue green/turquoise), 26[†] specimens; #5–6, WIb6 (tsp. light gold), 6 specimens; #7, IIa55 (tsp. cobalt blue), 59 specimens; #8, WIIC? pentagonal (indeterminate color), 3 specimens.

R2: Burial 340, cat. no. 1651: #1, WIIB* (op. blue with 2 gold gilt wavy lines), 1 specimen; #2, amber, 1 specimen; #3, IIj2 (op. black with 3 white wavy lines), 1 specimen.

R3: Burial 434, cat. no. 2124: #1, bone, 1 specimen; Burial 226, cat. no. 1212: #2, WIb? (possibly tsp. yellow), 8 specimens; Burial 187, cat. no. 988: #3–4 IIa6, 22 specimens; Burial 428, cat. no. 2115: #5–6 WIIC2 (tsp. light gray), 2 specimens; Burial 250, cat. no. 1239: #7, WIb* (op. black), 1 specimen. ††Burial 107, cat. no. 850: Ia1 tubular (op. redwood cased in clear glass), 1 specimen (not in photo).

5.1.5.1 General Condition

The majority of the beads were vitrified and glassy, although most exhibited some signs of glass disease, surface corrosion, pitting, or frosting. Three specimens of pentagonal faceted beads (WIIc?) (Figure 22:R1 no. 8) are completely obscured by weathering and have little vitrified glass remaining. The condition of individual bead categories from Burial 340 will be discussed below.

5.1.5.2 General Treatment

Except where noted, glass artifacts were not treated unless a diagnostic detail or an unusual form required conservation. Porous, flaking, or friable surfaces of selected beads from Burial 340 were vacuum-impregnated to stabilize the artifacts and to impart adequate morphological and mechanical strength to the surface, thereby facilitating handling. Six of the glass beads from Burial 340 were impregnated with acryloid B-72 to prevent further loss of surface or decorative detail. These included 340.41a and b, 340.53, 340.58, 340.61, 340.78, and 340.79. The majority of the beads were left untreated, however, to provide the largest unaltered sample for further study, examination, or analysis. Consequently, some of the beads remained quite fragile.

To remove the soil and overburden but not the weathered surface, which represents the original glass layers, the beads were dry brushed. Except where noted, care was taken not to disturb or remove the weathered surface. This surface or crust is a corrosion product that represents the deteriorated original surface and the dimensions of the once-healthy glass. Removal of the weathered layers alters the original dimensions and skews analysis. If weathering and corrosion have consumed the glass bead, removal of the corrosion product or crust would lead to the complete destruction of the object.

5.1.5.3 Analytical Methods

The beads were investigated at the Sherman Fairchild Center for Objects Conservation, Metropolitan Museum of Art. Assistant Research Scientist Mark Wypyski conducted the scanning electron microscopy and energy dispersive X-ray spectroscopy (SEM/EDS) analysis. The criteria for grouping included color, size, shape, method of manufacture, and pattern of weathering. On the basis of these physical characteristics, the beads were categorized into groups that formed the basis of selection for elemental analysis.

Although seven glass bead varieties and one amber specimen were recovered from Burial 340, only five varieties were analyzed by SEM/EDS (Table 1). Two bead types, the pentagonal bead WIIc? (Figure 22:R1 no. 8) and the small light-gold circular bead IIa* (Figure 22:R1 no. 1–2), were not analyzed. The highly weathered surfaces of these two varieties obscured the vitrified glass core and rendered them less viable for analysis. For the red faceted bead (Figure 22:R2 no. 2), no elements were detected, and archeometric analysis yielded no quantified results supporting the identification of the bead as amber. For analytical purposes, each of the five analyzed bead types from Burial 340 was considered representative of its type. The sixth bead analyzed, recovered from Newton Plantation (35IIj2), was chosen for comparative analysis due to strong similarities in visual appearance, decorative elements, and patterns of weathering to 340.79, the black barrel-shaped bead with the trailed wavy central pattern (Figure 22:R2 no. 3).

The surfaces of the beads were investigated using SEM and EDS, which yielded elemental results. For this type of analysis, a sample of the object would normally be prepared and a thin, transparent coating of either carbon or gold alloy applied, since glass is an electrical nonconductor. Under optimal conditions, a flat, coated, and prepared sample yields results that are more reliable. Ideally, the prepared sample is ground flat so that the angle between the surface, the detector, and the electron beam can be exact. The non-destructive sampling method that was followed, however, meant that the beads were not coated for sample preparation. Since the beads under investigation were round and were not coated or altered for spectrographic analysis, the quantitative results should be considered estimates (LaRoche 1994).

Table 1. SEM/EDS¹ Compositional Surface Analysis of Glass Beads from Burial 340 (% by Weight).²

Bead No. Type Color Element ³	340.16 IIa55 blue	340.19 IIa* turquoise	340.20 VIIb6 lt. gold	340.78 VIIIb* blue/gld	340.79 IIj2 black/wh	35IIj2 black/wh ⁴
Na ₂ O	13	12	-	17	14	14
MgO	3	3	-	5	4	4
Al ₂ O ₃	3	7	1	3	3	4
SiO ₂	63	58	39	55	54	58
K ₂ O	5	3	<1	1	2	4
CaO	9	8	<1	8	10	8
P ₂ O ₅	-	1	-	-	-	-
Cl	1	1	-	1	<1	1
TiO ₂	«1	«1	-	«1	«1	«1
MnO	«1	-	-	3	7	1
Fe ₂ O ₃	1	3	1	2	2	1
CoO	«1	-	-	-	-	-
CuO	-	1	-	«1	«1	-
PbO	-	3	58	2	2	<1

¹AMRAY Model 1100 Scanning Electron Microscope/KeveX Model Delta IV, Energy Dispersive Spectrometer. Analysis performed by Mark Wypyski, Assistant Research Scientist, Sherman Fairchild Center for Objects Conservation, Metropolitan Museum of Art, New York.

²Means not detected.

³Also sought but not detected: Cr₂O₃, NiO, ZnO, As₂O₃, Sb₂O₃, SnO₂, and BaO.

⁴Comparative sample from Newton Plantation, Barbados.

The surfaces of the six beads, 340.16, 340.19, 340.20, 340.78, and 340.79 from Burial 340, and one from Newton Plantation (35IIj2), were analyzed for elemental composition. SEM/EDS yields surface composition of glass; it does not yield results for the internal core of the bead where the glass may be the healthiest and where it approximates its original composition. For this reason, the weathered crust was removed from three gold or yellow beads to reveal the vitrified core. The crust was removed from 340.1, 340.17, and 340.20 to determine which bead might yield optimal analytic results and to reveal color for identification. The healthy glass core of 340.20 was selected for scanning electron microscopy. All the beads were first scanned to ascertain the optimal area for analysis that would most closely approximate the original glass formula and therefore yield results with greater validity.

Elemental analysis was undertaken for the following reasons:

1. Different varieties of beads had weathered at vastly different rates. It was anticipated that approximate comparisons of the qualitative and quantitative results would aid in understanding the mechanisms of glass corrosion.
2. Classification of the type of glass present might aid in understanding the provenience of the glass.
3. Analysis of trace elements, such as manganese (Mn), cobalt (Co), lead (Pb), arsenic (As), and antimony (Sb), which are generally present in glass as colorants or opacifiers, has met with some success in distinguishing glasses (for further discussion, see LaRoche 1994).

5.1.5.4 Results

Table 1 summarizes the chemical composition of the beads that were examined. Five of the six beads could be classified as soda-lime-silica glasses with high levels of magnesium. Four of the beads from Burial 340 (340.16, 340.19, 340.78, and 340.79) were in this category. The elemental composition of the Newton Plantation bead 35IIj2, while not identical, was comparable to 340.79, warranting further comparative analysis and investigation into manufacture and origin. One of the beads (340.20) was lead glass containing very high levels of lead with barely detectable levels of aluminum, potassium, and calcium. The lead glass bead had no detectable levels of sodium.

Bead 340.16

Description

Ila55, cobalt blue, Munsell 5PB 2/6. Diameter: 5.3-7.5 millimeters. Length: 4.0-7.1 millimeters. Oblate to barrel in shape, transparent cobalt blue. This bead represents the most frequently encountered bead variety from Burial 340, where there were 59 specimens. Several of the beads exhibited small projections, some rounded and others broken and blunt on their ends, indicating the *a speo* method of heat-rounding drawn beads (Karklins 1993:31-32; LaRoche 1994:10).

Condition

The beads had stable surfaces with some dulling but evidenced none of the severe weathering encountered in the other bead varieties associated with this burial. The basic composition of the glass is soda-lime-silica, and the color is derived from the presence of cobalt.

Treatment

None of the beads from this category, which is the most stable of the five identified categories for Burial 340, was treated.

Bead 340.19

Description

Ila*, blue-green/turquoise, Munsell 10BG 5/6. Diameter: 3.4-3.8 millimeters. Length: 2.0-2.6 millimeters. Circular, transparent blue-green to turquoise beads with pitted surfaces. This bead is represented by 25 specimens (an additional specimen was recovered during processing of the skeletal remains at Howard University).

Condition

The beads exhibit varying levels of pitting, ranging from small, pin-sized holes a fraction of a millimeter in width to pits with diameters approaching a millimeter.

Treatment

No beads within this category were treated beyond mechanical cleaning.

Bead 340.20

Description

Wlb6, yellow, Munsell 2.5Y 7/8. Diameter: 6.2-6.6 millimeters. Length: 4.7-4.8 millimeters. Globular to oblate shape, semi-transparent, light-gold color with heavily corroded surface. Six beads were in this category.

Condition

Of the beads analyzed, 340.20 represented the most severely weathered category. The weathered crust completely obscured both the color and diaphaneity of the glass; these beads resembled stone, not glass. The heavily weathered surfaces would appear to be the result of the instability of the glass formula. Sodium oxide, potassium oxide, calcium oxide, and magnesium oxide, all network modifiers (which add durability to glass) were at or below detectable levels. This may be due, in part, to the loss of constituent components associated with glass corrosion. The absence of any of the network modifiers necessary for the formulation of stable glass could be the primary cause of the extreme deterioration of the yellow beads. Lead probably served as the fluxing agent for this bead, since neither Na₂O nor K₂O, which normally act as a flux in glass formulas, was present.

Treatment

The crust was scraped to reveal the more stable core of the glass.

Bead 340.78

Description

WIIIb*, blue with gold gilt, Munsell 5PB 2/1. Diameter: 6.1 millimeters. Length: 6.2 millimeters. Irregular barrel shape, opaque blue with serpentine gold gilt stripe meandering around either end. This blue bead has a rounded bottom, a flattened top, and an applied gold surface decoration. Although the bead appeared to be dark blue, it derived its color from the relatively high level of manganese (MnO) rather than from cobalt (CoO). This is the only bead of this type in the collection (Figure 23, right).

Condition

The chipped area of the surface of the bead where no decoration was visible was the area subjected to analysis.

Treatment

Since the gold surface was not investigated through SEM, visual analysis combined with elemental analysis was employed. This bead was vacuum-impregnated to consolidate the chipped surface and stabilize the gold gilt.

Bead 340.79

Description

Iij2, opaque black with trailed glass decoration, Munsell 5PB 2/1. Diameter: 8.1 millimeters. Length: 8.3 millimeters. Barrel-shaped bead decorated with three decomposed, opaque white, trailed serpentine lines that encircled the bead perpendicular to the perforation (Figure 23, left). Although the glass appeared to be black, the high levels of manganese oxide (MnO) gave the glass an intense deep purple color. The bead had a decoration of trailed glass in a wave design, which would probably have resulted from impressing glass into the molten bead. Unfortunately, SEM analysis yielded no information that would aid in the determination of what type of glass would have been impressed into the bead. Bead 340.79 was a singular type.

Condition

The trailed design appeared to have been a white cane of glass, which had now been completely consumed by glass disease, leaving only glass corrosion products. When viewed microscopically, the bead had parallel impressions perpendicular to the trailed wave designs. These were probably chill marks caused by thermal expansion and contraction.

Treatment

The bead was vacuum-impregnated with acryloid B-72® in xylene to stabilize and consolidate the areas of loss.

5.1.5.5 Discussion

One of the goals of the bead study was to conduct elemental analysis so that the glass formulas could be compared to those of other beads. However, the different techniques used to obtain elemental composition of glass beads (such as X-ray diffraction, atomic adsorption analysis, thermoluminescence, and others) use different kinds of instrumentation that yield results that are not directly comparable. Thus, interpretation of such data is dependent upon studies conducted with instrumentation and procedures that are uniform. Studies of the kind undertaken here were not available for comparison in sufficient numbers to be useful.



Figure 23. Decorated beads, Burial 340, cat. no. 1651: black bead with wave pattern, left; blue bead with gold gilt in wave pattern, right. Photo by Doville Nelson.

However, the other goal was to gain an understanding of the relationships between corrosion products, glass formulations, and the mortuary environment. The time of deposition and the mortuary environment for all the beads from Burial 340 were the same, so glass formulations could account for disparate corrosion products.

Although the time of deposition was identical for all the beads from Burial 340, the beads in this study had three distinct types of weathering patterns: pits, either deep, narrow pits or shallow, wider pits; weathered crusts or surfaces; and frosting. The turquoise beads, of which 340.19 was representative, all exhibited moderate to severe narrow-diameter pitting. All yellow beads, represented by 340.20 and which had a high lead content, have an opaque white crust indicative of the layers of decomposition associated with the corrosion of glass. The cobalt-blue beads, represented by 340.16, had a slight to moderate dulling or frosting on the surface, which is associated with minute pits or surface disruptions. The surface of 340.78 was generally undisturbed, although the applied gold gilt design was worn in some areas, leaving traces of the pattern. A visually similar pattern of surface corrosion was one of the criteria for comparative analysis of beads 340.78 and 351j2. Both beads had wide, shallow, crater-like pits.

The analytical results indicated that each pattern of corrosion was associated with a different bead type, each with a different formulation, and was a result of the interaction between the soil chemistry and the glass chemistry. Iridescence, perhaps the form of glass corrosion most familiar to archeologists, was not evident. Results of the composition analysis are presented in Table 1.

5.1.5.6 Conclusion

The results of the study indicated that all beads in the assemblage that were visually similar to each other displayed comparable patterns of corrosion that were distinct from the corrosion products and patterns of weathering exhibited by beads of a different type. This implies that visually identical glass beads with similar shapes, colors, or decorative motifs, but with different forms or patterns of corrosion, may have different chemical formulas and therefore different origins.

Although the phenomenon of glass decomposition has been observed for centuries (Plenderleith and Werner 1971; Pollard and Heron 1996), the chemical reactions associated with the decomposition of archeological glass remain unclear and, according to Pollard and Heron (1996:186), have received less attention in the archeological literature than the chemical reactions of window-glass decomposition. Furthermore, the interaction between soil, groundwater, and artifact "becomes so complex that it becomes difficult to deal effectively with real systems" (Pollard and Heron 1996:189).

This study contributes data important for understanding the decomposition of archeological glass. The beads were buried at the same time and the different patterns of weathering provided an analytical model for investigating stability within the soil conditions specific to the African Burial Ground. It has been theorized that metallic oxides contained in glass stabilize it and resist the formation of glass disease (Newton and Davison 1989). The more stable cobalt beads have high amounts of metallic oxides, but the least stable beads have high amounts of lead. The results of this study suggest that the cobalt in Bead 340.16 may be responsible for the stable nature of the glass and that the lead contained in Bead 340.20 is responsible for color and instability. The high amount of aluminum in 340.19 may be responsible for the formation of pits. Further comparative studies would test these preliminary results.

5.1.6 *Composite Materials and Artifacts*

5.1.6.1 *Enameled Copper Alloy*

Oval sleeve links, Burial 371, cat. no. 1875

Description

This oval-shaped (1.4 centimeters x 1.1 centimeters) enameled sleeve link had a copper-alloy back with a drilled shank and an iron link. On a turquoise background was a surface decoration of a pinkish red and blue chevron with white and two colored dots above (Figure 24).

Condition

The enamel portion of the artifact was in excellent condition with no sign of surface disruptions or cracking, crizzling, or crazing. The copper backing had eruptions of bronze disease. The colors had lost vibrancy and would have been red, white, and blue, rather than the muted shades now visible.

Treatment

The copper portion of the sleeve link was desalinated, mechanically cleaned, and brushed. The artifact was vacuum-impregnated with acryloid B-72.

Discussion

Motif may be associated with the Masons (Calver and Bolton 1950:225, 227).

5.1.6.2 *Fired-Clay and Copper-Alloy Band*

Clay marble with copper-alloy band, Burial 375, cat. no. 1886

Description

White clay marble encircled by a grooved copper-alloy band with impressed diagonal lines above and below the central groove. Manufacturing detail was obscured by copper carbonates. Function unknown.

Condition

The metal band encircling the marble was fragmented but articulated when it was exposed during excavation. Acid-free paper splints were applied to the breaks in the band to stabilize the artifact in the field (Figures 25a and 25b).

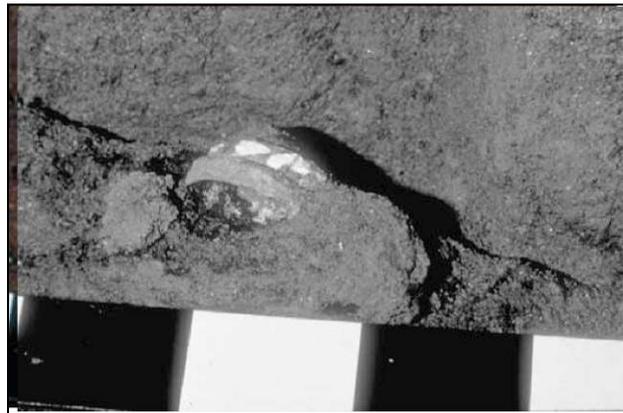
Treatment

Although the first treatment option was to consolidate the entire object to ensure that the metal band would remain aligned, this treatment course was not followed (Figures 25c and 25d). When the artifact was in the laboratory, the mends were removed from the object and the fragmented areas treated separately. The pieces of the band were vacuum-impregnated with 3 percent BTA and the clay marble and the band pieces were impregnated with B-72. Where the metal band could withstand the pressure, it was mechanically cleaned to remove copper carbonates and reveal surface detail. Due to the shape and extreme fragility of the band, corrosion products could not be removed without further damage to the band (Figure 25d).

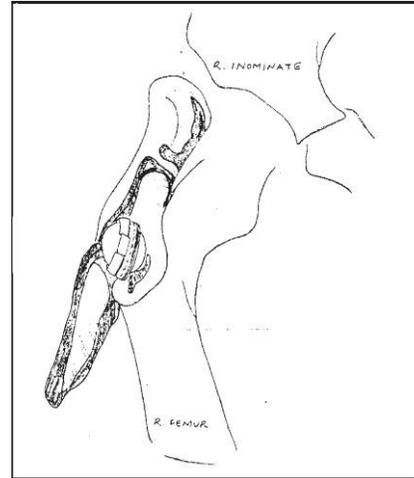
Upon completion of the cleaning process, the band was reassembled to encircle the marble, but not restored. Additional support was not added, nor were voids and cracks filled to add physical strength to the object. Although the artifact was reassembled, it remains one of the most fragile artifacts in the collection and should not be handled (Figures 25e and 25f). The artifact was stored in a polyethylene box to facilitate examination.



Figure 24. Sleeve link with motif associated with the Masons, Burial 371, cat. no. 1875. Photo by Doville Nelson.



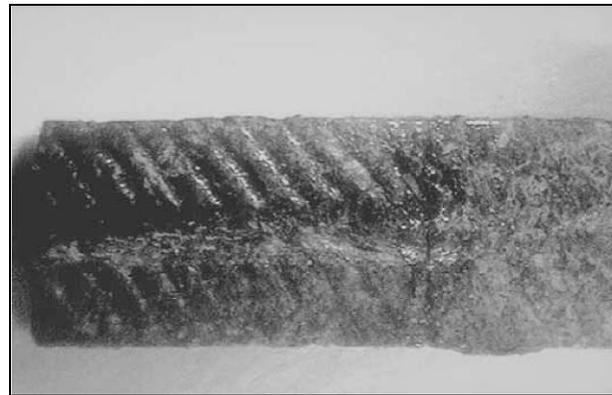
a.



b.



c.



d.



e.



f.

Figure 25. Clay ball with encircling band, Burial 375, cat. no. 1886: a) band in situ with acid-free tissue mends; b) field drawing; c) copper-alloy band at mid-treatment; d) photomicrograph of copper-alloy band repair, mid-treatment; e) front view of treated artifact; f) top view of treated artifact. Drawing by Margo Schur. Photos by Cheryl LaRoche.

5.1.7 Calcite Crystal Cluster

A calcite crystal cluster was recovered from the remains of Burial 55 while it was undergoing cleaning at the Cobb Laboratory at Howard University. The object was not in need of conservation but was sent to specialists for analysis. According to the provenience label on the bag, the crystal cluster was “found in miscellaneous bone mixture” associated with the skeletal remains being cleaned at Howard University. The crystal was sent to Sydney Horenstein of the American Museum of Natural History to be visually analyzed and was identified as a calcite crystal cluster. The crystal is not indigenous to the New York metropolitan area. Mr. Horenstein indicated that the crystal can be found west of the Delaware River or north of Kingston, New York, and may have come from an even greater distance to the African Burial Ground. Crystal clusters are also indigenous to the southwest United States, Europe, North Africa, and other desert regions (Bonasera 1998).

5.2 Organic Materials and Artifacts

Under conditions of pH extremes and fluctuating moisture and temperature levels where microbial activity and other mechanisms of decay exist and thrive, the rate of survival of organic materials will be lower than that of inorganic materials. Organic matter is subject to attack by organisms in the soil, contributing to rapid decomposition. The majority of the organic matter from the African Burial Ground was frozen to preserve it for analysis. The topics discussed in this section include identification and analysis of wood, worked bone, textiles, and other organic matter such as pseudomorphs, coral, and an amber bead.

5.2.1 Wood

Wood samples from coffins constituted the largest category of organic material excavated from the mortuary and non-mortuary contexts. These samples were frozen to preserve them for further treatment and analysis. Selected samples were identified using polarizing-light microscopy, and six samples were investigated using X-ray fluorescence to determine if the surface layer had received any treatment, such as a surface coating. Approximately 50 percent of the samples were investigated to determine viability for identification. Selected samples that had lost morphological detail or were difficult to identify were taken to Roland Harris, analytical chemist, U.S. Customs Service, for further identification.

5.2.1.1 Wood Identification

Every type of tree produces a different fine structure of cells that is apparent under a microscope. For wood that is robust, the distinctions among various species of wood can be made either at the macroscopic level or with a light microscope. A polarizing-light microscope is customarily used for identification of archeological samples. For differentiation of some Gymnosperms (conifers) which are members of the same family, and for degraded samples, a polarizing-light microscope is indispensable.

Under optimal conditions, the identification of wood species can rely on as many as 33 different features (Phillips 1979). For identification of archeological samples, particularly the conifers, many of these identifying morphological features either did not survive or were severely degraded, rendering identification a difficult and time-consuming process. Often, only the genus or family could be identified, not the species.

While the analysis was focused on microscopic details, general features of diagnostic value were also used. Woods were assumed to be indigenous to the region. Some diagnostic features, such as distinct odor or the presence of resin, were present after more than 200 years of burial. Cedar samples were often aromatic and pungent, particularly when subjected to heat in preparation for taking samples, and a few pine samples were quite resinous.

Often the size of the piece of wood to be sampled was insufficient for positive identification of the species. Under optimal conditions, three different cuts from the same sample, transverse or cross-section, radial, and tangential, are required to provide distinguishing features for reliable identification (Hoadley 1990).

Due to the small size or the weakened, degraded condition of many of the wood pieces, only one or two cuts were available; tangential and transverse cuts being most often obtained.

Most of the identifying features could be used either in the positive or in the negative sense. The latter means that the absence of a certain feature, such as resin canals, in a particular sample allowed even extremely degraded or minuscule samples to receive a minimal level of analysis. Other features, such as cross-field pitting types or distinctive odor, could only be used when present (Edlin 1994).

Sample Preparation

Wood identification is a comparative process; each sample is compared with known samples. Since preliminary observation suggested that the majority of the coffin woods for the African Burial Ground were coniferous, generally referred to as softwoods, the conservators concentrated on this class of woods and acquired a comparative softwood collection. Common hardwoods were also identified, but degraded and difficult-to-identify species were referred to expert Roland Harris at the U.S. Customs Laboratory.

The wood samples retrieved from coffins and wood thought to be grave markers were frozen and preserved for analysis. Large bags of soil labeled as coffin wood often contained only slivers of wood or no cultural material. Since no list was provided of which burial was to be examined and there was no method to determine the viability of wood for analysis prior to thawing and examination, there was no formalized process developed for choosing which samples to thaw. The strategy for identification, therefore, depended on the size of the sample and the condition of the wood available in any thawing episode.

The largest and most robust pieces within each thawing episode were sampled first. For these samples, conventional sampling strategies were employed, including boiling the wood to facilitate taking samples or taking the required cuts directly from viable wood (Hoadley 1990). This was the method most frequently employed. The more fragile samples and some minute samples were infused with Primol WS-24 to facilitate sample taking and identification.

Due to the large number of samples collected, microscopic slides were not retained but photomicrographs of samples with clear distinguishing features were digitized for documentation using a digital imaging system (Figure 26). When the wood was thawed and identified, no further attempts were made to preserve the wood since the artifacts were scheduled to be reburied along with the skeletal remains. Wood from the non-mortuary component of the 290 Broadway Block was identified by the ethnobotanists and is not discussed here.

Results

Where feasible, multiple samples were identified to determine whether an entire coffin had been made of a single type of wood. A total of 203 samples was selected for identification, representing 133 burials. Of that number, 17 percent (34) were either unidentifiable or had no cultural material. The remaining 169 viable samples were identified. Of the 203 samples, pine (eastern white, red, or unidentified) accounted for 41 percent of the samples and cedar (red, white, or unidentified) accounted for 30 percent. Spruce represented 10 percent of the total number of samples. Other species accounting for 3 percent of the sample, included black walnut (1), larch (2), fir (2), and yew (?) (1). Consult Appendix C for the complete wood identification list.

Table 2. Summary of Wood Identification, African Burial Ground.

Species	Spruce	Pine	Cedar	Other	Unidnt.	NCM ¹	TOTALS
No. of samples	20	83	60	6	12	22	203
% of samples	10	41	30	3	6	11	101

¹ NCM = No cultural material, that is, no wood, in that sample

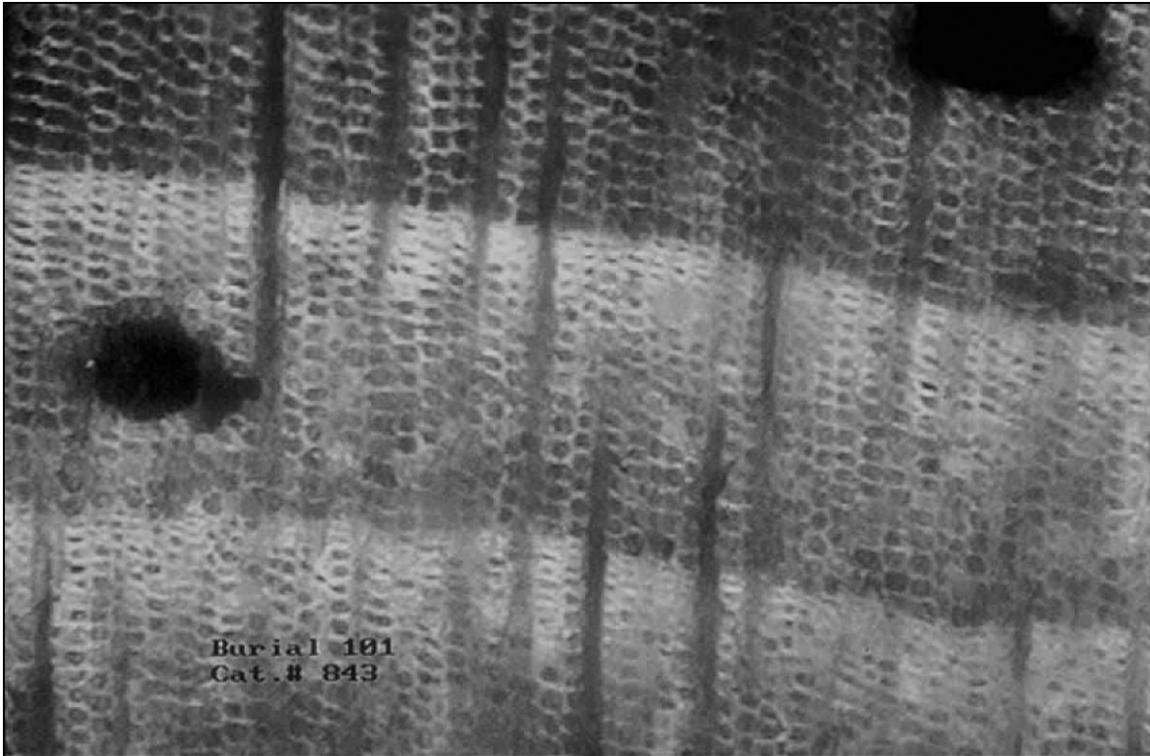


Figure 26. Photomicrograph of larch sample, Burial 101, cat. no. 843.

5.2.1.2 *X-ray Fluorescence*

Wood from Burials 63, 159, and 183 was identified in the field as having paint or pigment on the surface. Only Burial 63 and 159 samples were identified for analysis. Unfortunately, the Burial 183 sample was not sent for conservation. The field notes for Burial 183 were later found to state that “the southwest inner coffin lid has a concentration of orange/red paint and flecks of paint over the entire surface.” This observation was discovered during a review of field notes, after the analysis had been completed.

The surfaces of wood from Burials 63 and 159 were first examined microscopically for evidence of organic binders, but none was identified. Material thought to be pigment was detected in association with wood from Burial 159 during subsequent microscopic analysis, but the degraded state of the wood, coupled with the presence of degraded pine resin, made identification inconclusive. X-ray fluorescence was then performed to determine if a surface treatment or colorant based on metallic oxides could be identified. Soil samples were also tested to determine concentrations of elements present for comparative analysis.

Analytical Methods

Wood and soil samples were sent to the U.S. Customs Laboratory in New York for X-ray fluorescence analysis (XRF) to determine if further research or analysis was warranted. Data were obtained using a Jordon Valley Applied Research X-ray fluorescent spectrometer Model EX 300.

Wood samples were selected from burials for comparative analysis to determine whether there was evidence of surface alterations. Both sides of the samples from Burials 63 and 159 were tested. The reddish pink coloration associated with these two samples suggested the presence of iron, and preliminary testing indicated the presence of copper. A wood sample from Burial 259 that clearly had copper carbonate and copper chloride corrosion products from a degraded coin was tested to identify and compare the amount of copper associated with a degraded copper artifact to that found in the wood and soil samples without such obvious corrosion products. One Burial 1 wood sample with iron staining was tested. In addition to the two primary samples (Burial 63 and Burial 159), wood samples that appeared to have no surface alterations were tested as controls: namely, Burials 11 and 213. Coffin wood from the lid of Burial 1 was also tested to compare with the portion of Burial 1 exhibiting iron staining.

Soil samples to be tested were selected from a variety of contexts from the African Burial Ground and 290 Broadway Block components. A series of soil samples was tested from Burial 97, Burial 130, Burial 316, and Burial 393. Three samples (cat. nos. 446, 601, and 1502) from non-mortuary contexts were also tested as controls, and soil from Burial 159 was tested for comparative data. Soil for comparative analysis was not available for Burial 63. Nine wood and eight soil samples were examined for a total of 17 samples tested. These included two samples each from three burials, three each from one burial, and eight soil samples from non-cultural deposits.

Soil samples containing sand or clay were analyzed to distinguish wood-surface discoloration related to elements in the soil from discoloration associated with outside sources or corroding metals. To keep surfaces undisturbed, soils embedded in the grain of the wood samples were not removed, although samples exhibiting minimal amounts of soil were chosen whenever possible. The analyses were prepared using the standardless fundamental parameter of the Jordon Valley Applied Research instrument, which uses the theoretical spectra modeling of the exciting X-ray beam and its subsequent use in the interactive calibration of concentration. This method allows one to obtain concentrations with reasonable accuracy (semi-quantitative analysis) without the preparation of standards and preliminary calibration. The program calculates efficiencies of excitation and detection of each line of interest and estimates concentration. It then calculates absorption and self-excitation in a sample. All the analyses obtained by a standardless method should be considered semi-quantitative at best; that is, the results should be considered as an estimate of the true value. The X-ray peak patterns on the spectrographs (Appendix B) are based on fluorescent yield, which is non-linear; therefore, quantitative determination is not possible on peak ratio without a standard. The percentage results, which accompany the spectrographs, are a more reliable indicator of quantity (Yves Midy 1998, personal communication).

Results

The analysis report provided by the U.S. Customs Laboratory presented the results as element concentration by percentages present (Table 3) and as a spectrum (Appendix B). The spectrographic results are based on rates of emission rather than quantity. For example, iron emits at a higher rate and will appear as a larger peak on the spectrum, but this peak does not indicate quantity. Although the percentage results in Table 3 are a more reliable indication of elemental concentration, they are also semi-quantitative. The results indicate the presence of surface alteration, which may be paint, on the coffin of Burial 159 but were ambiguous for the coffin of Burial 63, as discussed below.

Discussion

This study was initiated as a result of field observations pertaining to visual identification of paint on the coffin lid surfaces of Burial 63 and Burial 159. Preliminary investigation of the wood surfaces of Burial 159 indicated the presence of copper. Each side of the sample for these two burials was tested. Two elements were of primary interest, iron (Fe) and copper (Cu).

Further testing of Burial 159 revealed a 4.11 percent concentration of copper on side A and a 17.2 percent concentration of copper on side B. These results were substantially higher than the concentrations associated with the soil samples, which ranged from 102 parts per million (ppm) to .33 percent. The amount of copper present in other wood samples was more difficult to interpret. The Burial 63 sample, identified in the field as having a painted surface, had copper levels comparable to those of the soil samples, 0.21 for side A and 0.28 for side B; Burial 213, a control sample, contained 9.5 percent copper.

Of the other control samples, Burial 1 contained 0.34 percent copper and the wood sample from Burial 11 contained traces of iron (0.27 percent) and copper (511.7 ppm). The results associated with the iron staining visible on Burial 1 indicated 22.8 percent iron, while the portion of the same coffin lid with no evidence of rust or iron staining contained a higher amount of iron (28.8 percent). Control wood samples from Burial 11 and Burial 213 contained 0.27 and 23.1 percent iron, respectively.

A wood sample from Burial 259 had evidence of copper corrosion products derived from a George II coin that was associated with the coffin. The corrosion products were in a circular pattern the approximate diameter of the coin and are associated with that artifact. The coffin wood had 54.4 percent copper, the highest reading for the presence of copper yielded by the testing, and the highest calcium levels (at 34 percent) of any sample tested.

The elements present in the soil samples tested from Burials 97, 130, 159, 316, and 393 and non-mortuary contexts from cat. nos. 446, 601, and 1502 contained varying levels of elements associated with New York City soils. Testing of all the soil samples yielded either trace amounts of copper or no detectable levels of copper. The detectable levels ranged from 0.33 percent to 102.8 parts per million. The XRF analysis indicated that the five soil samples from the African Burial Ground contained high percentages of silicon (Si) (about 25–81 percent), varying levels of iron (Fe) (about 2–43 percent), and low levels of aluminum (Al) (3–16 percent), titanium (Ti), calcium (Ca), and manganese (Mn), with single samples containing sulfur (S), zinc (Zn), and sodium (Na). Soils from the non-mortuary contexts contained 36–52 percent silicon, 26.5–43 percent iron, 4 percent aluminum, and 2–7 percent titanium and calcium. These natural soils also contained sulfur and zinc.

Table 3. X-ray Fluorescence Results of Test for Pigments on Coffins.

Sample Type	Burial/Cat. No.	Al ²⁺	Si	S	Ca	K	Ti	Mn	Fe	Ni	Cu	Zn	Mg	Na	Pb
Wood															
Paint sample?	B63A	5.27	29.30	1.03	20.80	2.65	0.95	1.56	37.60	0.63	0.21	523.2 ppm			
Paint sample?	B63B	6.34	35.90	1.11	17.80	3.47	1.31	1.56	31.50	0.78	0.28				
Paint sample?	B159A	5.13	39.70	0.68	7.55	2.68	1.51	1.57	36.90		4.11	0.13			
Paint sample?	B159B	4.48	25.80	1.33	27.10	1.53	1.35	0.71	20.30	0.15	17.20				
CuCa ¹	B259	11.10			34.10		0.44				54.40				
Iron stain	B001	3.56	39.40	5.59	17.70	6.73	3.00	0.58	22.80		0.65	26.6 ppm			
Lid	B001	4.29	40.40	3.88	11.20	7.86	2.86	0.26	28.80	0.18	0.34				
No staining	B011	10.60	21.20	1.53	1.34		388.4 ppm		0.27		511.7 ppm		7.29	54.80	2.84
Control	B213	5.77	44.80		12.30		2.41	2.17	23.10		9.50				
Soil															
Burial soil	B97	4.79	46.50		9.12		2.89	0.42	36.10		0.14				
Burial soil	B130	6.80	39.00		8.11		2.54	0.66	42.60		0.30				
Burial soil	B159	15.80	81.30		0.37		0.30		2.19						
Burial soil	B316	14.80	61.60		1.91		0.26	685.1 ppm	2.68		83.8 ppm			18.70	
Burial soil	B393	2.87	24.90	3.11	24.10	4.04	2.64	4.52	33.00	0.27	0.33	0.30			
Clay	cat. no. 446	3.85	35.90	0.12	5.82	7.04	2.68	1.56	42.90		0.16				
Sediment	cat. no. 601	3.78	52.20	886.7 ppm	7.11	6.02	3.08	0.85	26.50		0.28	0.12			
A/B interface	cat. no. 1502	4.32	48.70	0.18	2.02	6.41	3.27	0.86	34.00		102.8 ppm	0.17			

¹CuCa = Copper Carbonate from degraded coin.²Al = Aluminum; Si = Silicon; S = Sulfur; Ca = Calcium; K = Potassium; Ti = Titanium; Mn = Manganese; Fe = Iron; Ni = Nickel; Cu = Copper; Zn = Zinc; Mg = Magnesium; Na = Sodium; Pb = Lead

Summary

Analysis of the coffin lid from Burial 159 produced evidence of surface alteration, possibly a colorant or coating containing copper. Examination using fluorescence microscopy suggested the presence of pigmentation. Both the interior and exterior surfaces of the lid from Burial 159 were examined. The interior contained 17.2 percent copper, while the exterior revealed 4.11 percent. Both surfaces had levels of copper indicative of introduction from an outside source. The levels of copper associated with Burial 159 were lower than levels derived from the presence of a copper artifact or copper corrosion by-products (as indicated by the results from Burial 259), but were much higher than copper in the surrounding soils, which ranged from 103 ppm to .33 percent. The surface layer examined from Burial 159 was uniform and homogeneous and suggested that some type of coating was applied to the lid. Determining the nature of the coating and the precise chemical formulation requires further analysis.

The Burial 63 wood samples tested for pigments did not have sufficient levels of copper to suggest intentional introduction of a substance containing that element. Results from the investigation of the surface of the coffin lid from Burial 63 were inconclusive although the levels of iron, another possible component of paint, were elevated, but not substantially above the levels of the surrounding soils. Although paints are derived from iron oxide, it is difficult to determine the source of the iron without further testing to determine the type of iron present. Accordingly, the results of the elemental analysis are inconclusive.

5.2.1.3 Coffin Lid

Child's coffin lid, Burial 100, cat. no. 842

Description

Hexagonal child's coffin lid. Dimensions unavailable.

Condition

The coffin lid consisted primarily of soil with little evidence of wood. The soil matrix had lost much of its cohesiveness and was fragmented, but the shape of the coffin was discernible. The surface was cracked with fissures and voids (Figure 27a).

Treatment

This lid was treated in preparation for transportation to the bioanthropology laboratory at Howard University. Retention of the lid's shape and dimension and minimization of loss due to friction and vibration were the treatment goals. Since little wood was evident, the treatment did not address preservation or stabilization of wood. To fill the cracks and voids in the surface areas, a fill material consisting of acid-free tissue saturated with PVA Jade 403 was used. Tissue fills were laid along the length of the void until cracks were filled to the surface level (Figure 27b). A small amount of the surrounding soils was introduced as the final layer to lessen the visual effects of the fill.

Discussion

The coffin lid retained its original dimension and approximate shape. The mends insured that the lid remained intact and that surface erosion during transportation did not further compromise fragmented edges. The artifact arrived at Howard University intact with no evidence of damage, loss, or compromise to the repair.



a.



b.

Figure 27. Lid from a child's coffin, Burial 100, cat. no. 842: a) before treatment; b) at mid-treatment. Photos by Cheryl LaRoche.

5.2.2 *Other Organic Matter*

Most surviving organic materials were too degraded or fragmented to be treated, but received passive conservation. These included leather, textiles, and unidentifiable organic substances from the African Burial Ground. Leather fragments recovered from four burials (Burials 27, 259, 379, and 415) were analyzed, but the small size of the fragments precluded treatment. Pseudomorphs and coral were analyzed or identified and properly stored, but were not treated mechanically or chemically.

5.2.2.1 *Bone Buttons*

Bone buttons were among the more stable organic artifacts. Twenty bone buttons with drilled-hole centers were recovered from mortuary contexts. Buttons with diameters ranging from 8 millimeters to 13 millimeters were probably from undergarments, although only Burial 392 had evidence of an attached textile. The buttons were in good to excellent condition. These were cleaned and treated with a barrier coating.

5.2.2.2 *Textile Fragments*

The low rate of survival for textiles from the African Burial Ground is indicative of the rapid rate of decay for archeological textiles in the soil conditions discussed in Section 2.1. Under these soil conditions, fabric and textiles often decomposed before equilibrium was reached or survived as an altered material, such as a pseudomorph or mineralized replacement, which does reach equilibrium. A small percentage of textile fragments measuring no larger than 2.5 centimeters were preserved by copper salts associated with the degradation of copper buttons. Burial 230, for example, had textile preserved on either side of a copper-alloy coin. Thirteen percent of the textile fragments recovered were associated with copper-alloy buttons. The toxic metallic ions of the copper inhibited the biological activity that otherwise would have destroyed the organic fibers.

Wool, linen, and cotton fragments were recovered from the African Burial Ground. Identification of textiles was based on the presence of a weave structure or evidence of a weave pattern, such as the plain weave linen and wool fragment from Burial 135 (Figure 28) or the wool fragment from Burial 371 (Figure 29). Any cloth for which a weave structure or felting could be detected was identified as a textile, although no garments, shrouds, clothing, or any type of large cloth or woven items survived at the African Burial Ground.

Within the archeological environment, the presence of shrouding and clothing often must be inferred. Table 4 shows the number and kinds of cloth and clothing-related artifacts. Burials that had only shroud pins are not listed. While textile fragments or fibers were recovered from 5 percent (22) of the burials, other artifacts indicative of cloth in a burial were more frequent. Shroud pins were recovered from 37 percent (159) of the burials; metal buttons were recovered from 5 percent (22); bone buttons were recovered from 2 percent (9); 14 degraded and fragmented leather-covered buttons were recovered from 0.5 percent (2); 0.9 percent (4) had leather fragments; 2 percent (10) had sleeve links; 0.7 percent (3) had pseudomorphs; and 8 percent (33) had evidence of a combination of more than one of the cloth-related categories (pins, buttons, sleeve links, and/or fibers). If all artifacts indicative of, or associated with, clothing and shrouds, including pseudomorphs, are considered, and the figures are adjusted for burials that contained multiple clothing-related artifacts, then at least 44 percent (186) of the burials probably had some form of cloth originally interred with them. These calculations, of course, cannot reflect the number of burials that may have had only cloth associated with them.

Although many of the textile fragments or fibers from the African Burial Ground have lost aspects of their identifiable morphological features, 18 fibers were identified from 11 burials: 9 were wool, 7 were linen, and 2 were cotton. The remaining 18 textile fragments or fibers from 14 burials were unidentifiable. Fibers, rather than cloth, were associated with five of the burials.

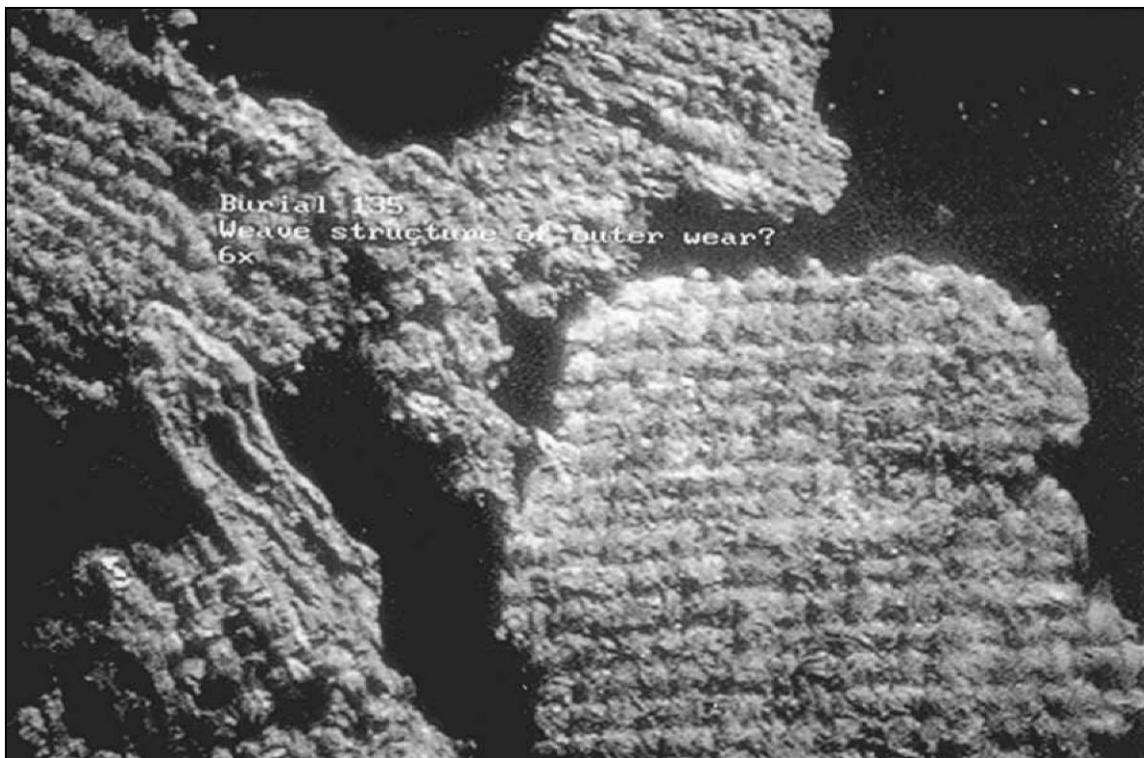


Figure 28. Photomicrograph of partially mineralized linen and wool textile fragment, plain weave, Burial 135, cat. no. 880.

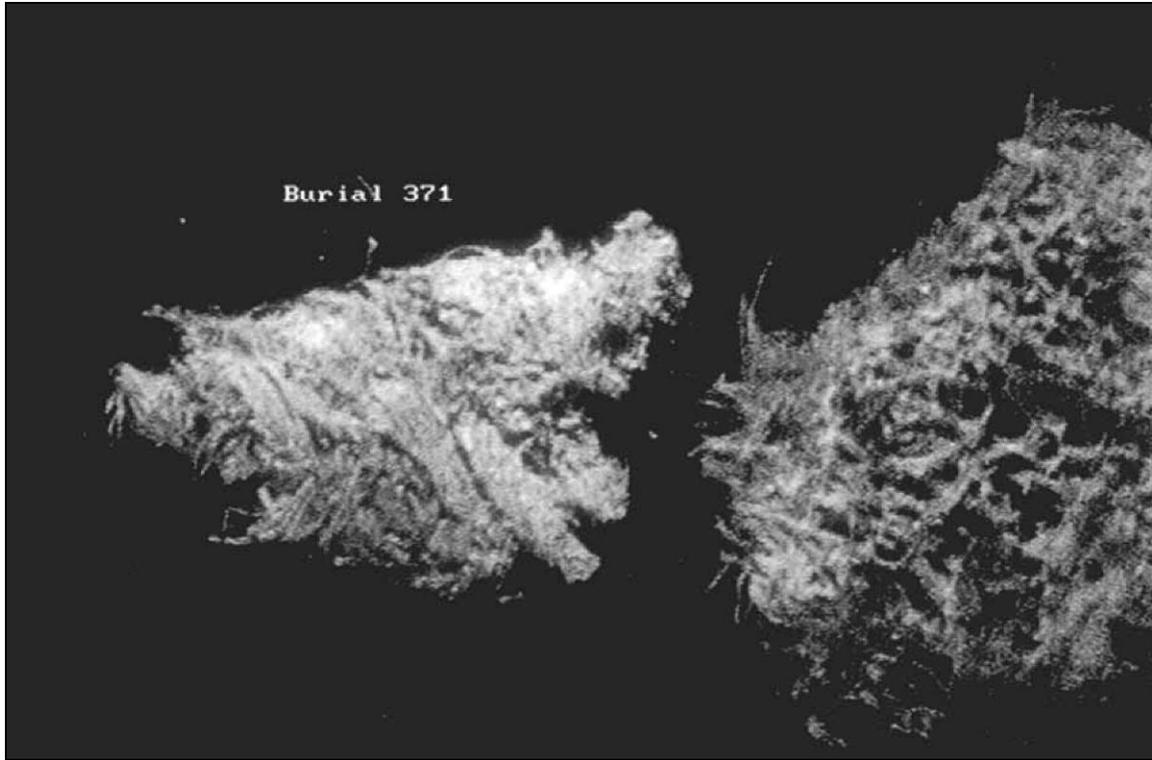


Figure 29. Photomicrograph of woolen textile fragment, Burial 371, cat. no. 1875.

Table 4: Artifacts Associated With Cloth or Clothing.

Burial #	buttons	button backs/ shanks ¹	leather buttons	sleeve links	shroud pins ²	fiber	textile	pseudomorph	leather frags.
B 006	8				+				
B 010	8	1		1	+		1		
B 022					+	1	1		
B 027					+				1
B 032	1								
B 037	1				+				
B 109					+		1		
B 121					+			1	
B 135						1	1	1	
B 136					+		1		
B 151					+		1		
B 158				2					
B 169					+	1			
B 171	2				+				
B 174	2								
B 181	4	3		1			1		
B 186					+		1		
B 191	1				+				
B 194		1							
B 203	1		8				1		
B 211				1					
B 214		2							
B 219					+		1		
B 230					+		1		
B 238				2					
B 243	1								
B 250	2								
B 254							1		
B 257	3				+				
B 259	9		6		+		12	1	1
B 271	2								
B 276	1								
B 278	1						1		
B 313	3				+				
B 325	1				+				
B 326	4								
B 333	6								
B 341				1	+				
B 353	1				+				
B 361	1				+				
B 366	1								
B 368		1			+				
B 371		1		1			1		
B 379	1								1
B 385	2				+				
B 387				1					
B 389					+	1	1		
B 392	2	10		1		1	3		
B 398				1	+				
B 403	4				+				
B 405	1				+				
B 415	13				+		2		1
TOTALS	87	19	14	12		5	32	3	4

¹Shanks counted only when unassociated with buttons they could be attached to.

²Only shown for burials that have cloth or other clothing-related artifacts.

Minute fragments of textiles, potentially from shrouds or garments, were not subject to wet or chemical cleaning techniques due to their extreme fragility. Only robust fibers and textiles were cleaned or identified. Most of the fibers associated with the African Burial Ground were badly degraded. Some that did retain adequate microstructure, as in Burial 371, could not be identified (Figure 29), others, such as the cotton fiber from Burial 169, were identified (Figure 30a). The fiber fragments were cleaned (when possible), identified and stabilized, and stored in polyethylene boxes.

The presence of individual fibers was noted in the field notes and during laboratory analysis. Individual fibers were present in association with two shroud pins from Burial 22 and Burial 389. Individual fibers or fibers not associated with a textile or clothing-related artifact were not considered analytically viable or reliable since it could not be certain that a single fiber was indicative of clothing, shrouds, or other textiles specific to a particular burial. Contamination through sources unrelated to a burial must be considered. Introduction of stray hairs may have also resulted from rodent activity. Single rodent hairs, exhibiting the ladder medulla, one of the morphological characteristics indicative of rodent, rabbit, or rat, were found in association with Burials 34 and 419 (Figures 30b and 30c). While Burial 419 also contained a quill, no other artifacts were recovered from Burial 34, and the fiber from Burial 34 was removed from a coffin- wood sample (Figure 30b). Although these two fibers were identified as rodent hairs (Appleyard 1960), Margaret Walsh, textile specialist with the U.S. Customs Laboratory, could not identify the species.

Plain weave, Burial 22, cat. no. 344

The small textile fragment was partially mineralized but is referenced here because it retained warp, weft, and weave structure. It was a plain weave, identified in the field as a possible shroud fragment. Although the warp and weft could not be determined, samples were taken from each direction. The fragment was linen.

Indeterminate weave, Burial 371, cat. no. 1875

This is a wool textile fragment of indeterminate weave structure. Its fiber bundles are distinctive. The fragment is coarse and embrittled, and no treatment was attempted (Figure 29).

Fiber, Burial 419, cat. no. 2104

A strand of fibers was recovered from this burial, but no textile was present. The strand appeared to be sisal. Only fibers were recovered, which could be rope, twine, cord, or some other product (Figure 31).

5.2.2.3 Pseudomorphs

In archeological contexts, an artifact may be preserved not as the original material but as an exact replica, a stable pseudomorphic replacement. Corrosion products slowly permeate the fibers, gradually replace them, and assume the shape and form of the fibers and textiles, making an exact positive replica of the design of the weave structure and the spin of the fibers. The fiber itself may or may not be preserved, but its morphological features will remain (Sease 1994). The pseudomorph can provide data on weave structures, not available from individual fibers, to compare with other fabrics, bedding, bandages, and clothing. Two examples (Burials 121 and 135) of pseudomorphic replacement and one probable pseudomorph (Burial 186) are discussed here. The probable textile pseudomorph from Burial 186 was investigated through scanning electron microscopy.

Possible shroud, Burial 121, cat. no. 866

The details of a textile that may have been used as a shroud were preserved as a pseudomorphic replacement. The pseudomorph was in association with a cranial fragment of an infant from Burial 121 (Figure 32).

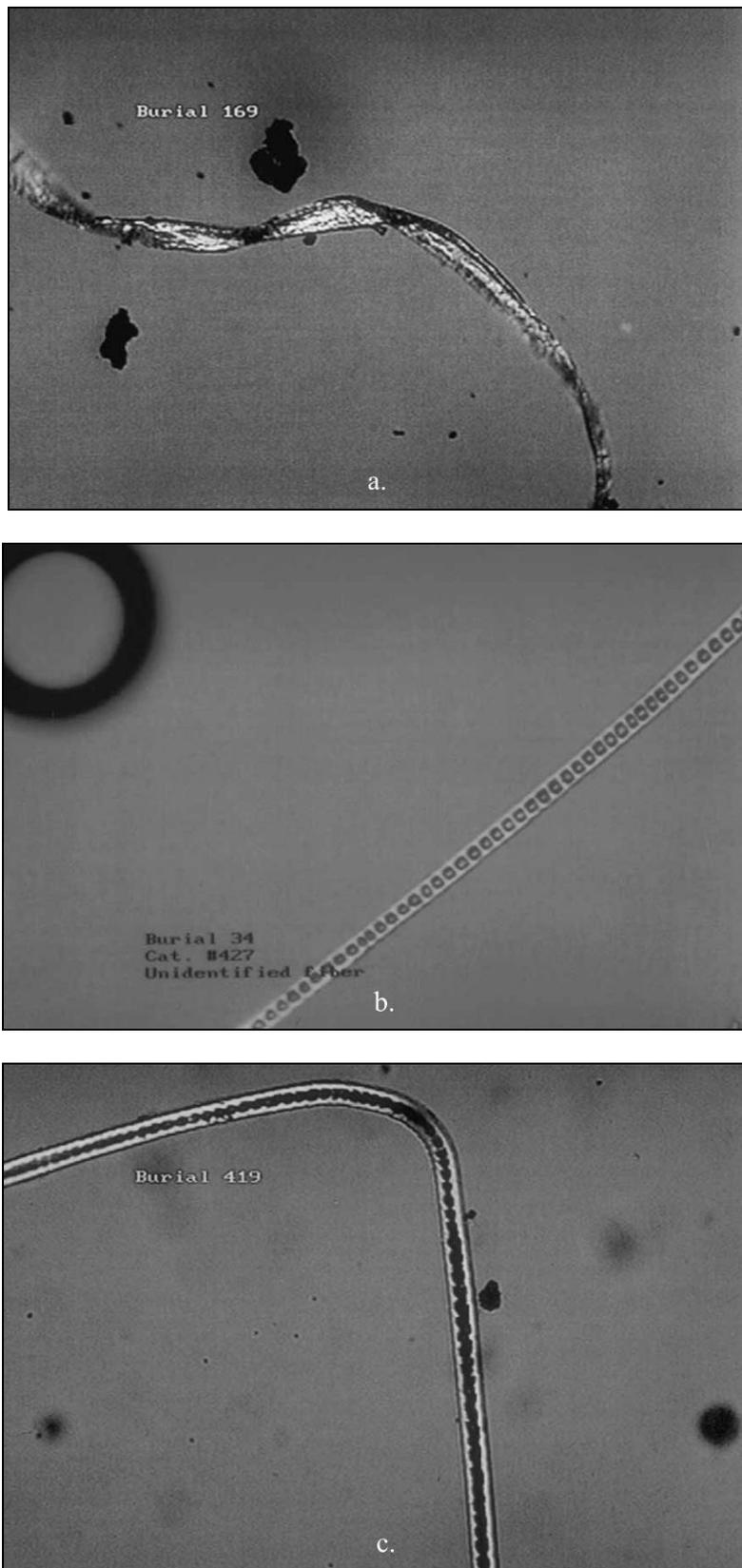


Figure 30. Photomicrograph of fibers: a) cotton fiber, Burial 169, cat. no. 926. Rodent hairs with ladder medulla structure: b) Burial 34, cat. no. 427; c) Burial 419, cat. no. 2104.

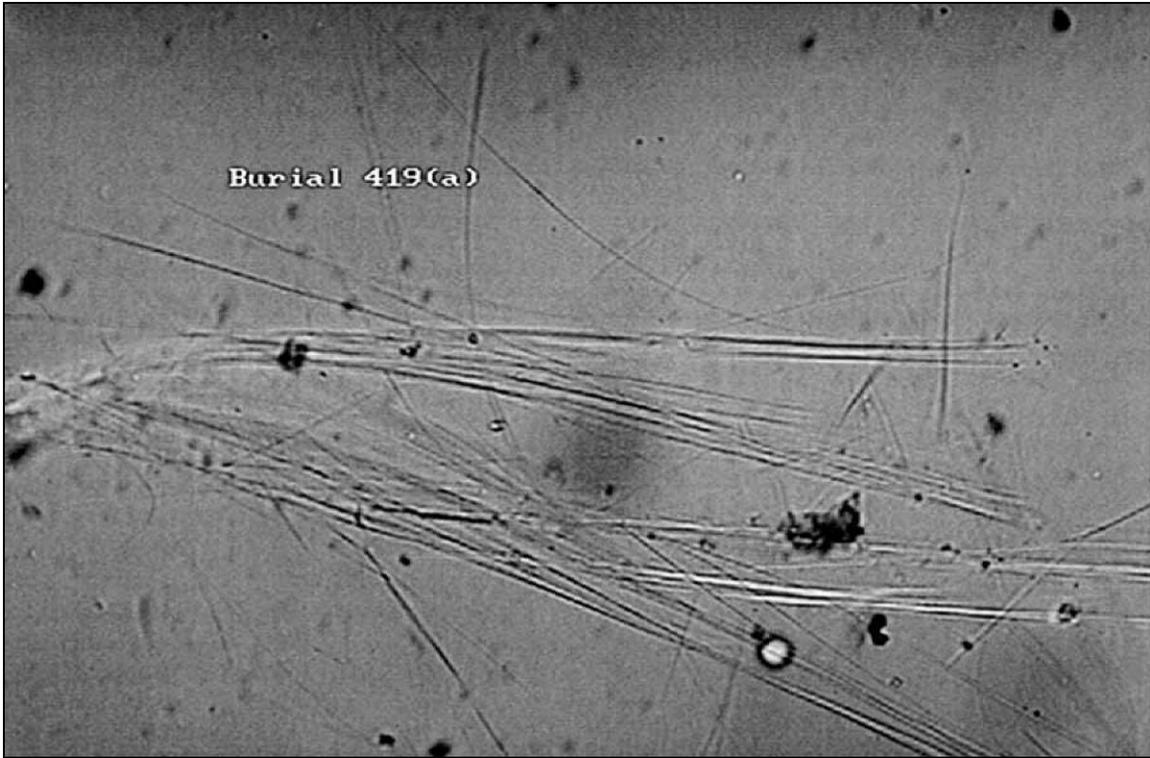
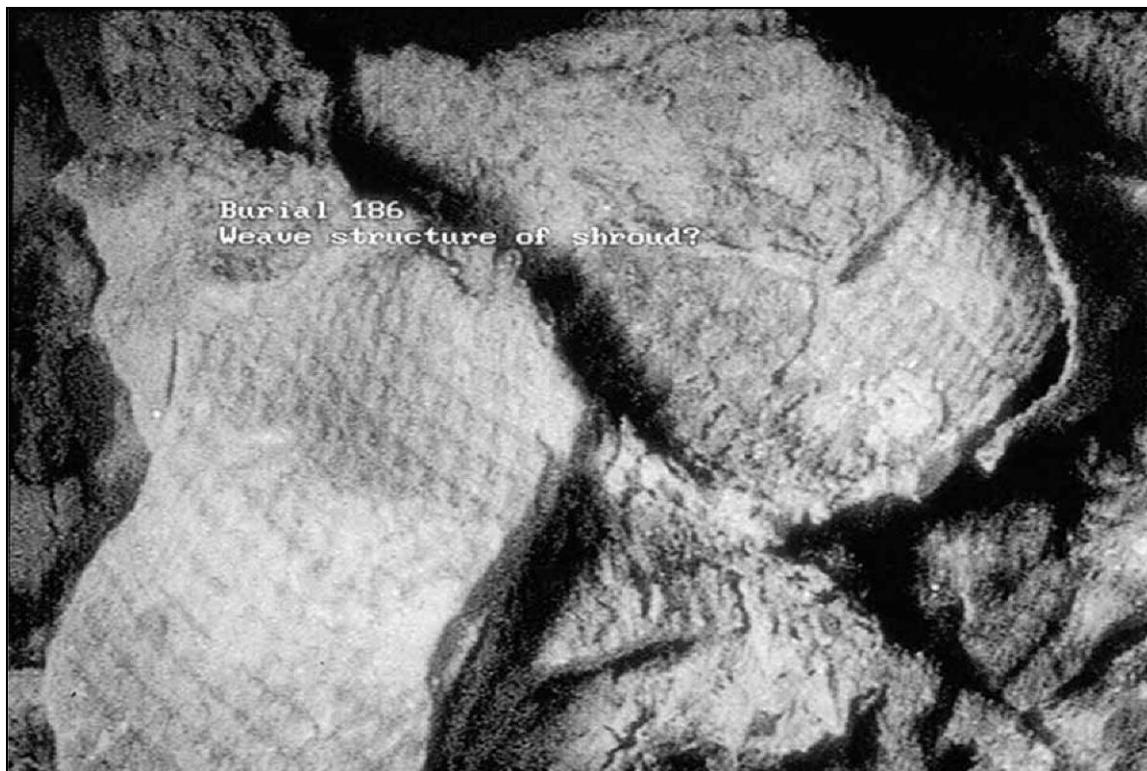


Figure 31. Photomicrograph of fiber, possibly sisal, Burial 419, cat. no. 2104.



a.



b.

Figure 32. Photomicrograph of a possible shroud pseudomorph from cranium of an infant, Burial 121, cat. no. 866: a) entire sample; b) detail.

Possible clothing, Burial 135, cat. no. 880

A pseudomorph from Burial 135, which had not undergone the complete replacement process, was partially mineralized. This artifact was found in association with a copper-alloy coin. The mineralized fragment had the green corrosion product indicative of contact with a copper alloy. Copper salts had arrested microbial agents of deterioration that are destructive to archeological textiles and a few fibers were extant and visible. The weave was a balanced plain weave and may be indicative of clothing (Figure 28).

Indeterminate, Burial 186, cat. no. 987

Peter Brown from the U.S. Customs Laboratory in Savannah, Georgia, examined this pseudomorph by SEM-XRF. The micrographs (Figures 33a, b, and c) revealed that a portion of the pseudomorph comprised a mineralized wood. The minerals were composed of silicon and aluminum, with a small amount of iron. A light micrograph of one surface of the pseudomorph indicated that the specimen contained peaks and valleys that could have been derived from a fabric structure that was in contact with it. The analysts had no opinion pertaining to the structure of the pseudomorph and could not determine whether or not it was fiber- or fabric-based (Brown 1998).

5.2.2.4 Coral and Shell

Coral was recovered from several contexts, including burials, grave fill, and features associated with non-mortuary contexts. The coral was washed by laboratory technicians in the course of normal laboratory procedures but received no treatment from conservators other than proper storage. Dr. Ann Budd from the University of Iowa identified the coral specimens in Table 5 from African Burial Ground contexts.

Table 5. Coral Identification from Mortuary Contexts.

Burial	Catalog No.	Context	Identification
Burial 333	Catalog 1613	Sample recovered from laboratory processing	<i>Acropora palmata</i>
Burial 353	Catalog 1723	3 samples from laboratory-processed grave fill	<i>A. palmata</i>
Burial 376	Catalog 1895	Found in association with the grave	<i>Siderastrea siderea</i>
Burial 383	Catalog 1931	2 samples recovered from laboratory processing	<i>A. palmata</i>

Distribution of *A. palmata* is limited to the Caribbean and the Gulf of Mexico. *S. siderea* is found in the Caribbean, the Gulf of Mexico, Bermuda, possibly off the Brazilian coast, and on Annobón and Fernando Póo, two islands in the Gulf of Guinea (Cairns 1981: Distribution 48-50) (Figures 34a and 34b).

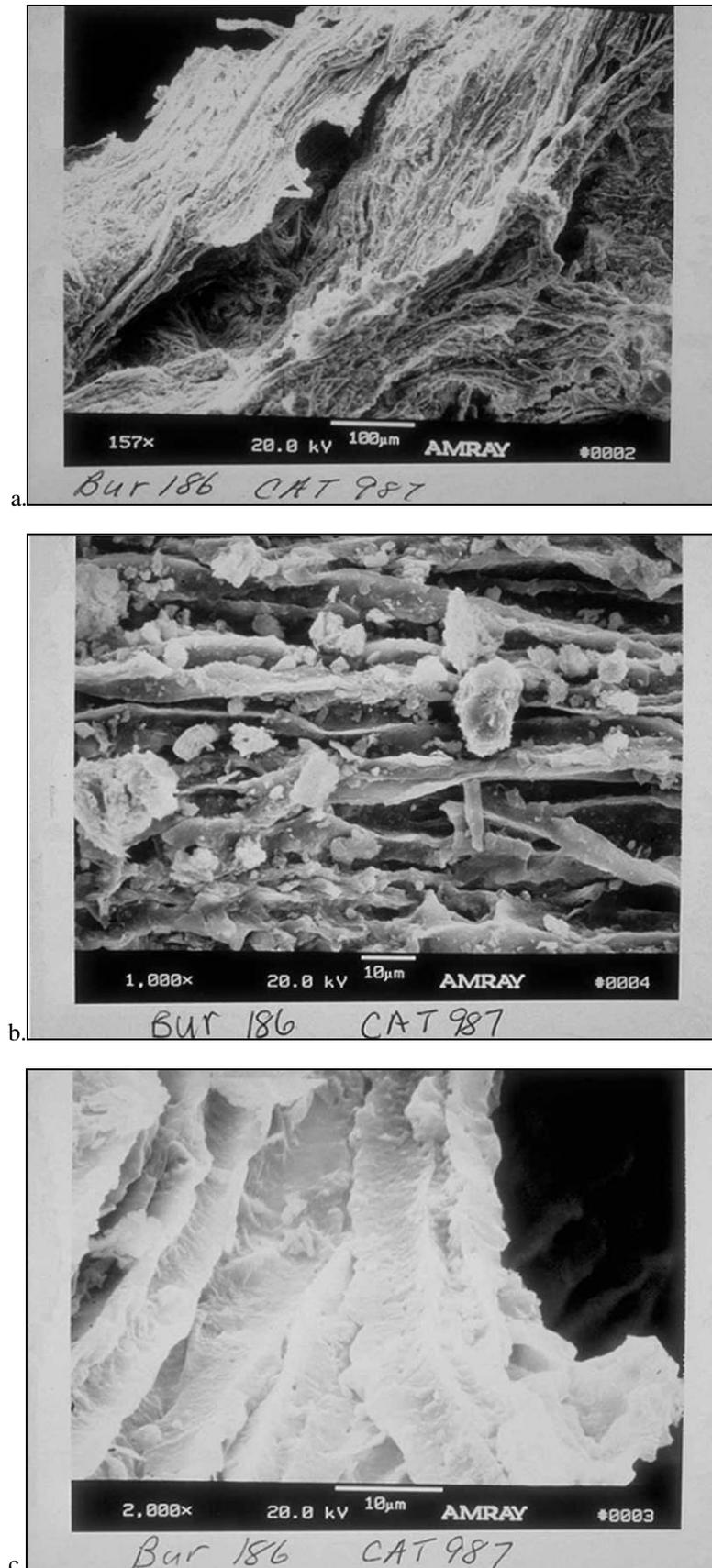


Figure 33. Scanning electron micrographs (a, b, c) of pseudomorph of unidentified fibrous material, Burial 186, cat. no. 987.



a.



b.

Figure 34. Coral specimens, Burial 376, cat. no. 1895: a) *Siderastrea siderea*; b) detail of *S. siderea*.

5.2.2.5 Amber

Faceted amber bead, Burial 340, cat. no. 1651

Description

Bead 340.75, Munsell 10R 3/8. Diameter: 5.0 millimeters. Length: 4.7 millimeters.

This red, faceted, globular bead had fourteen trianguloid facets with rounded or worn edges that alternated around the body of the bead (Figure 35). The ends were smooth. Although initially thought to be glass, this bead was identified by glass experts as organic (Robert Brill 1993, personal communication; Mark Wypyski 1994, personal communication). Elemental analysis supported this interpretation, indicating the absence of metallic elements. Amber lacks the crystalline structure found in mineral gemstones.

Condition

The bead had retained diaphaneity. The surface was abraded and the corners of the faceting were not sharp, but the overall pattern of faceting remains clear. The bead is in excellent condition. Examination under a microscope revealed crazing and internal cracking associated with the weathering of the material under archeological conditions (Beck 1982; Cronyn 1990; Sease 1994).

Treatment

Vacuum-impregnated with B-72, 12 percent in xylene. If amber is to be analyzed, treatment by vacuum-impregnation contaminates the sample and the results are unreliable. Methods of analysis for amber require a sample and are destructive. No sample can be taken of this bead without causing substantial damage, and it should not be subjected to elemental analysis.

Discussion

Amber is fossilized tree resin. A soft yellow- to honey-colored glow is normally associated with this material, but amber hues fall within a range from light yellow to dark brown and include lemon- yellow, orange, reddish brown, green, blue, violet, and hues that are almost white. Approximately 250 color varieties are known (Holden 1991; Rice 1993). Although rare, red amber beads have been recovered from archeological contexts worldwide (Dubin 1987; Opper and Opper 1989; Smith et al. 1994).



Figure 35. Amber bead, Burial 340, cat. no. 1651.



6.0 CONSERVATION PROCEDURES: 290 BROADWAY BLOCK ARTIFACTS AND MATERIALS

Conserved artifacts from the 290 Broadway Block were chosen to emphasize the different functions of artifacts in a domestic context and the secular nature of the site. For example, a number of bone- and antler-handled knives were treated (Figure 36). The treated thimbles (Figure 37) also reflect the domestic nature of the site. A wider variety of artifacts was excavated from the non-mortuary component of the site. With the exception of one gold-alloy artifact, the material classes were consistent with those expected at an eighteenth- and early nineteenth-century historic site and were made of the same types of materials as the artifacts in the African Burial Ground assemblage. With the exception of pewter and gold alloy, the discussion of materials for the African Burial Ground artifacts applies to the non-mortuary artifacts, and will not be repeated here.

6.1 Metal Artifacts

6.1.1 *Gold Alloy*

One artifact from the non-mortuary context contained debased gold, alloyed with copper. Gold, which is the noblest metal, is the least reactive to environmental and soil conditions and, therefore, the least susceptible to corrosion. The metals with which it is alloyed, however, do cause the corrosion of debased gold due to the galvanic cells that form with the alloying metals.

Gold St. Christopher medal, Lot 12, Unit 19, cat. no. 703

Description

Gold-alloy medal of St. Christopher with staff and small child on right shoulder. A large loop was at each end. Length: 2.5 centimeter. Width: 9 millimeters.

Condition

The artifact was completely obscured by the corrosion products typical of copper, one of the alloying metals. Galvanic corrosion produced a heavy surface layer of copper carbonates and iron oxide, indicative of the presence of copper and a small quantity of iron. Corrosion products gave the appearance of a copper-alloy artifact. The corrosion products did not disrupt the interface layer of the metal component.

Treatment

Overburden was mechanically removed to the surface interface. The gold alloy was soft and susceptible to damage and scratching from mechanical cleaning. Corrosion overburden was carefully removed to reveal surface detail (Figure 38). A fiberglass-bristle brush was used sparingly over the cleaned surface.



Figure 36. Bone and antler utensil handles, left to right: bone, Feature 77, cat. no. 1027; bone, Feature 77, cat. no. 1104; bone, Feature 104, cat. no. 1276; antler, Feature 77, cat. no. 1020. Photo by Heather Griggs.



Figure 37. Thimbles, left to right: cat. no. 444, NE, Lot 20.5, Unit 4; cat. no. 517, Lot 12, Unit 10; cat. no. 569, Lot 12, Unit 16. Photo by Heather Griggs.



Figure 38. St. Christopher medal with corrosion products removed, cat. no. 703, Lot 12, Unit 19, AU 27, Phase 4. Photo by Cheryl LaRoche.

6.1.2 *Copper Alloy*

6.1.2.1 *Coins*

Fugio cent, Lot 12, Unit 11, cat. no. 464

Description

Fugio cent, copper-alloy coin. The date 1787 and the inscriptions "Fugio" and "Mind your Business" were clearly visible on the obverse. "We are one" was at the center on the reverse.

Condition

The metal was in excellent condition and had a surface layer of copper carbonates with a sulfide layer at the interface. The presence of cuprite was indicated. The coin was well preserved in comparison to those recovered from mortuary contexts.

Treatment

The coin was mechanically cleaned with a scalpel to the sulfide layer indicated by the black patina. The date and inscriptions are now clearly visible (Figures 39a and 39b).

6.1.2.2 *Sleeve Links*

Octagonal sleeve links, Lot 20, 20.5, 21, Unit 4, cat. no. 580

Description

Fragmented octagonal sleeve links. The two sections present were from each end of the link and did not mend. A central circular motif outlined by an octagonal shape and surrounded by an egg-and-dart motif was barely discernible (Figure 40). This sleeve link was comparable to those recovered from Burial 238 (Figures 15a, b, c) and Burial 341 (Figure 16) from the African Burial Ground assemblage.

Condition

The sleeve link was embrittled and consumed by bronze disease with little to no metal remaining at the core.

Treatment

The artifact was too fragile and embrittled to withstand mechanical cleaning. The artifact was consolidated.

6.1.3 *Pewter*

Within the non-mortuary component of the 290 Broadway Block excavation, a variety of pewter artifacts were treated with the following methods. Generally, pewter artifacts were mechanically cleaned by micro-air abrasion to remove corrosion by-products. Surface eruptions of tin carbonates, which generally compromise the substrate and leave the surface pocked and distorted if removed, were not disturbed. Surface eruptions either were not disturbed or were subjected to minimal cleaning.



a.



b.

Figure 39. Fugio cent, cat. no. 464, Lot 12, Unit 11: a) obverse; b) reverse. The black pattern is indicative of the anaerobic conditions that allow sulfate-reducing bacteria to thrive. Photos by Josh Nefsky.



Figure 40. Fragments of octagonal sleeve links, cat no. 580, NE, Lot 20.5, Unit 4. Photo by Cheryl LaRoche.

Toy cannon, Lot 12, Unit 12, cat. no. 664

Description

Pewter toy cannon with trunnions and blowhole visible.

Condition

The surface was concreted with lead carbonates.

Treatment

This toy pewter cannon received a brief and carefully monitored exposure to electrolysis to weaken the corrosive overburden associated with lead carbonates. Once these corrosive bonds were weakened, the cannon was further cleaned using conventional mechanical methods. This would not normally be a treatment for pewter but was extremely effective in this limited application (Figure 41). Electrolytic reduction revealed the small details of the toy with minimal surface disruption and mitigated treatment difficulties associated with the tenacity of the overburden.

6.2 Organic Artifacts and Materials

6.2.1 Coral

Dr. Ann Budd of the University of Iowa identified coral from the contexts listed in Table 6. Dr. Budd was unable to identify the coral from Lot 12, 13E, 45S, cat. no. 272 (Figure 42).

Table 6. Coral Identification from Non-Mortuary Contexts.

Deposit Type	Provenience	Date	Identification ¹
Feature 3B, Lot 20-21	Catalog 564, Unit 5, Stratum X, Level 1	Pre-Revolution	Not a Scleractinia, unidentifiable
Feature 74W, posthole	Catalog 993, Stratum II, Level 2	1787-1805	<i>Acropora palmata</i>
Feature 74W, posthole	Catalog 1003, Stratum II, Level 3	1787-1805	<i>A. palmata</i>
Feature 77B, pit	Catalog 1026, Stratum V, Level 1	1787-1805	<i>A. palmata</i>
Feature 77B, pit	Catalog 1074, Stratum VIII, Level 2	1787-1805	<i>A. palmata</i>
Fill, Lot 12	Catalog 99, Unit 4, Stratum V, Level 3	Post-1807 fill	<i>A. palmata</i>
Fill, Lot 12	Catalog 272, 13E, 45S	Post-1807 fill	Not a Scleractinia, unidentifiable
Disturbance, Lot 20-20½-21	Catalog 582, Unit 8, 221E47.5S	Post-1807 disturbance	<i>A. palmata</i>

¹*Acropora palmata* (Lamarck) is indigenous to the Caribbean and the Gulf of Mexico (Cairns 1981:Distribution 48-50).

6.2.2 Crinoid Stem Fragment

Sydney Horenstein from the American Museum of Natural History analyzed a lithic specimen recovered from a non-mortuary fill context (Lot 12, Unit 4N, Stratum XI, Level 1, Catalog 146) dating after 1800 (post-1807 fill). The specimen was a crinoid stem fragment, fossil echinoderm of the class *Crinoidea*, having a cup-shaped body with branched, radiating arms and a tubular stem. The specimen was not indigenous to the New York Metropolitan area, but could be found west of the Delaware River or north of Kingston, New York. The fossil appeared to be silicified (Bonasera 1998). It was not conserved but is included here because it was sent out for identification.



Figure 41. Toy cannon, cat. no. 664, Lot 12, Unit 12. Photo by Doville Nelson.

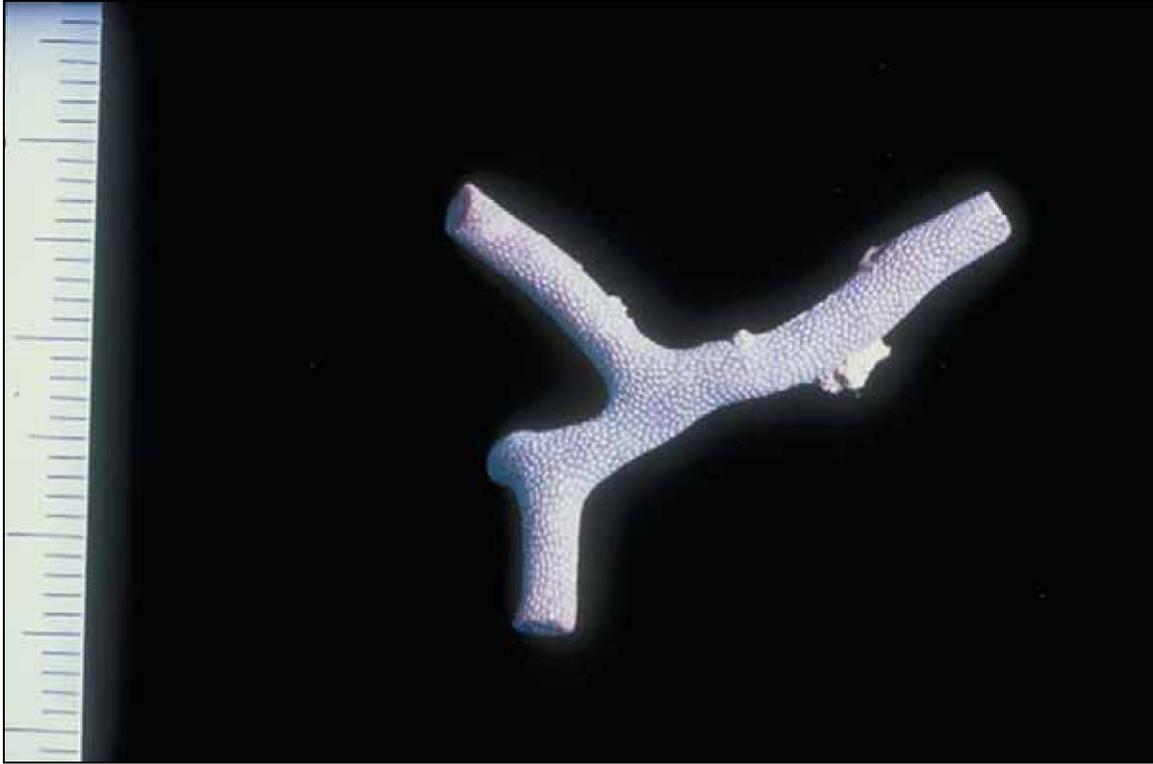


Figure 42. Unidentified coral, cat. no. 272, Lot 12, Unit 11. Photo by Josh Nefsky.

7.0 RECOMMENDATIONS

The Memorandum of Agreement for the Foley Square project requires reinterment of the mortuary artifacts with the skeletal remains. This stipulation of the MOA affected treatment, particularly for the wood samples. If the collection is not reinterred, further conservation may be required for long-term stability, handling, or display. The primary goal was to apply a level of treatment appropriate to the ultimate disposition of the artifacts. The majority of the artifacts from the African Burial Ground and the 290 Broadway Block components that required conservation were stabilized, since most will be either curated at a long-term storage facility or reinterred. Some, such as wood, were stabilized for analytical purposes only. A few artifacts were conserved to the degree that they can be exhibited. Treatment and storage strategies for long-term curation included barrier coatings on artifacts and passive conservation techniques such as the use of archival boxes, ethafoam cushioning, and acid-free materials.

Environmental control at the final repository is crucial. Temperature, relative humidity, and light levels should be in the acceptable range for storage facilities (36 CFR 79). Barrier coatings retard oxidation rates, protect against airborne pollutants, and mitigate the effects of atmospheric moisture. Nevertheless, a stable environment is mandatory for the long-term storage of materials to ensure that cyclical agents of deterioration are not reactivated. A stable temperature ensures that artifacts do not become embrittled or desiccated because of temperature extremes.

Many of the conserved mortuary artifacts were placed in polyethylene boxes, which allow for examination and analysis without handling. It is particularly important that handling of reconstructed artifacts be minimized. The artifacts from the African Burial Ground were stabilized as part of triage conservation, affording the more robust artifacts enough stability to be handled, analyzed, and cataloged. However, this treatment may have to become more aggressive if the artifacts are to be reburied. Broadway Block artifacts (from non-mortuary contexts) are less fragile and better able to withstand careful handling. Artifacts from the 290 Broadway Block are stored in polyethylene bags; to avoid crushing, they must not be packed too tightly in storage boxes.



8.0 CONCLUDING SUMMARY

The administrative and contractual history of the Foley Square project was outlined in this report to provide an overview of the aspects of the project that affected the goals of conservation. Because this document accompanies the collection and site report, conservation terms and methods were defined and procedures explained. Every opportunity was taken to discuss the complex interactions involving soil chemistry, groundwater, and the artifact to highlight the complicated nature of the causes and effects of degradation and patterns of corrosion. This report focused on the investigation of the chemical characteristics of materials and their responses to agents of deterioration.

Project conservators relied on a variety of analytical techniques to provide rapid identification of the materials. As a preliminary analytical survey technique, chemical analysis allowed the investigation of badly degraded artifacts with a greater degree of certainty than visual observation. The uniqueness of the African Burial Ground site and limited comparable data made the need for certainty more critical. Conservation techniques and archeometric investigations were used to aid in the analysis of materials and manufacturing techniques. Evidence of hand-wrought manufacture was revealed through radiographic analysis of coffin hardware. The presence of an artifact made of semiprecious metal was confirmed through emission spectrophotometric analysis of the ornament. A bead initially identified as glass was subsequently found to be amber through SEM/EDS. Although SEM/EDS is not specifically an analytical test for the identification of amber, other visual and morphological characteristics, in addition to the lack of elemental data, led to this conclusion.

Using polarized-light microscopy, wood and textile samples were identified and pigments were detected. Wood samples with pigmented surfaces were analyzed to demonstrate that the distinctive surface layers were not the result of soil chemistry, but were reflective more of intentional surface treatments than of the interaction between the surface of the artifact and the mortuary environment.

Each class of material discussed reflected the range of objects recovered from mortuary and non-mortuary contexts. Conserved artifacts from the African Burial Ground provided a basis of comparison for other conserved artifacts retrieved from non-mortuary contexts. The iron coffin handles and the clay marble encircled by a brass band may be the only artifacts unique to the African Burial Ground. With the exception of the amber bead and the silver ornament from the African Burial Ground, the gold pendant from the 290 Broadway Block component, and the quantity of coral recovered from the excavations, the range of materials encountered at this site is consistent with that from other eighteenth-century archeological sites. Artifacts from 290 Broadway contexts such as toys, eating utensils, sewing implements, shoe buckles, and furniture hardware reflect the mixed use of the site. Identical sleeve links from mortuary and non-mortuary contexts reflect cultural connections between the two components of the site.

In the modern environment, the chemical and physical stability of most objects and materials is taken for granted. Objects are valued for these properties. Chemical stability for many materials, however, often exists in a narrow range of environmental stability. The presence or absence of moisture, salts, temperature extremes, sunlight, electrochemical activity, microbes, acids, and corrosive matter can quickly compromise even the most durable artifact. The archeological environment undermines the inherent composition and structure of artifacts and so obscures materials as to render recognition of even the most common materials difficult. Decorative detail and surface properties become obfuscated as physical and chemical degradation robs the artifact of its salient properties.

Since the artifacts associated with the graves are scheduled to be reburied, conservation of artifacts from the African Burial Ground has helped preserve cultural remains that represent a once-in-a-lifetime opportunity to study and investigate artifacts from the early period of the African-American history of New York City. These are the personal effects of a population who buried their dead with artifacts that possessed monetary, social, and intrinsic value. Few artifacts associated with Africans and their descendants exist from seventeenth- and eighteenth-century New York City. These artifacts remind us of the people who once possessed them. The 290 Broadway Block artifacts and photo-documentation of the African Burial Ground

artifacts will be the tangible remains that represent the 290 Broadway Block component of this remarkable site in Lower Manhattan.

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APPENDIX A
CONSERVATION CATALOG



Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
2647	001	B	001	00030	1	small finds
	Material	mother of pearl		Function	button	

Comment

131 conserved

Condition

P110 dirty

P045 brittle

Identification

115 visual

Storage

40 polyethylene bag

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
2763	001	B	001	00030	2	small finds
	Material	cu alloy (copper)		Function	nail	

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)

A010 cu o3 (azurite)

C015 cu o2 (cuprite)

P115 distorted

U005 cu (copper)

Identification

115 visual

Storage

40 polyethylene bag

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100557	001	B	001	00030	3	small finds
	Material	cu alloy (copper)		Function	America - small cent - indian head	

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)

A010 cu o3 (azurite)

C015 cu o2 (cuprite)

P015 good

U005 cu (copper)

Identification

115 visual

Storage

40 polyethylene bag

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100033	001	B	001	00030	4	small finds
	Material	wood & copper alloy		Function	umbrella parts	

Condition

A005 cu o2 ca co3 (malachite)

A010 cu o3 (azurite)
 C015 cu o2 (cuprite)
 H005 nantokite
 P015 good
 U005 cu (copper)

Identification

115 visual

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
2198	002	B	002	00151	1	small finds
	Material	cu alloy (copper)		Function	button	

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)
 A010 cu o3 (azurite)
 C015 cu o2 (cuprite)
 H005 nantokite
 U005 cu (copper)

Identification

115 visual

Storage

40 polyethylene bag

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100692	002	B	002	00151	0	unassigned
	Material	----		Function	----	

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
2729	002	F	519	00193	1	small finds
	Material	cu alloy (copper)		Function	button	

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)
 A010 cu o3 (azurite)
 C015 cu o2 (cuprite)
 U005 cu (copper)

Identification

115 visual

Storage

40 polyethylene bag

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100668	002	F	519	00193	2	small finds
	Material	leather		Function	function unknown	

Cleaner

B05 70% ethanol

SolventPercent

0

Comment

131 conserved

Condition

P045 brittle
 P095 crumbling
 P105 desiccated
 P110 dirty

ConsolidantSolventPercent

C005 micro-crystalline wax - hot wax

0

Identification

115 visual

Storage

40 polyethylene bag

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100778	002	F	519	00193	3	small finds
	Material	cu alloy (copper)		Function	America - large cent - draped bust	

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)
 A010 cu o3 (azurite)
 C015 cu o2 (cuprite)
 U005 cu (copper)
 P015 good

Identification

115 visual

Storage

40 polyethylene bag

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100117	003B	D	515	00485	1	small finds
	Material	cu alloy (copper)		Function	straight pin, unidentifiable	

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)
 A010 cu o3 (azurite)
 C015 cu o2 (cuprite)
 U005 cu (copper)

Identification

115 visual

Storage

40 polyethylene bag

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100113	003B	D	515	00485	2	small finds
	Material	cu alloy (copper)		Function	button	

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)

A010 cu o3 (azurite)

C015 cu o2 (cuprite)

U005 cu (copper)

Identification

115 visual

Storage

40 polyethylene bag

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100084	011	E	040	00715	1	small finds
	Material	copper alloy & silverplate		Function	jewelry parts, misc.	

Comment

131 conserved

999 see written comments

Condition

A005 cu o2 ca co3 (malachite)

A010 cu o3 (azurite)

C015 cu o2 (cuprite)

P080 cracking

U005 cu (copper)

Method

050 fiber glass bristle brushing

SolventPercent

0

Storage

40 polyethylene bag

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100034	011	E	040	00715	2	small finds
	Material	cu alloy (copper)		Function	tack, upholstery	

Comment

101 to be brought to the attention of the conservator

Condition

A005 cu o2 ca co3 (malachite)

A010 cu o3 (azurite)

C015 cu o2 (cuprite)

U005 cu (copper)

Identification

115 visual

Storage

40 polyethylene bag

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100032	011	E	518	00167	1	small finds
	Material	fe (iron)		Function	ring	

Condition

P070 concretions

P075 corroded

P190 powdered

C005 fe o2 (ferrous)
 C010 fe o3 (ferric)

Identification

115 visual

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100089	011	E	518	00168	1	small finds
	Material	cu alloy (copper)		Function	button	

Condition

A005 cu o2 ca co3 (malachite)
 A010 cu o3 (azurite)
 C015 cu o2 (cuprite)
 P135 encrusted
 U005 cu (copper)
 C025 sn o2 (tin)

Identification

115 visual

Storage

40 polyethylene bag

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
2736	011	E	518	00174	1	small finds
	Material	fe (iron)		Function	nail	

Comment

131 conserved

Condition

P135 encrusted
 C005 fe o2 (ferrous)
 C010 fe o3 (ferric)

Identification

115 visual

Storage

45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
2748	011	E	518	00174	2	small finds
	Material	cu alloy (copper)		Function	straight pin, unidentifiable	

Comment

131 conserved

Condition

P050 broken
 P135 encrusted
 A005 cu o2 ca co3 (malachite)
 A010 cu o3 (azurite)
 C015 cu o2 (cuprite)
 U005 cu (copper)

Identification

115 visual

Storage

45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
2750	011	L	521	00517	1	small finds
	Material	cu alloy (copper)		Function	thimble	

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)

A010 cu o3 (azurite)

C015 cu o2 (cuprite)

U005 cu (copper)

Identification

115 visual

Storage

40 polyethylene bag

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100576	014	E	014	00227	1	small finds
	Material	cu alloy (copper)		Function	button	

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)

A010 cu o3 (azurite)

C015 cu o2 (cuprite)

P015 good

U005 cu (copper)

Identification

115 visual

Storage

40 polyethylene bag

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100760	014	E	518	00212	1	small finds
	Material	fe (iron)		Function	straight pin, wrapped head	

Comment

131 conserved

Condition

C005 fe o2 (ferrous)

C010 fe o3 (ferric)

Identification

115 visual

Storage

40 polyethylene bag

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100078	015	G	015	00236	1	small finds
	Material	cu alloy (copper)		Function	tack	

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)

A010 cu o3 (azurite)

C015 cu o2 (cuprite)

U005 cu (copper)

Identification

115 visual

Storage

40 polyethylene bag

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100744	015	G	015	00236	2	small finds
	Material	bone/faunal		Function	fan/parts	

Comment

131 conserved

Condition

P015 good

P050 broken

Identification

115 visual

Storage

25 ethafoam

45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100090	015	G	015	00239	1	small finds
	Material	cu alloy (copper)		Function	button	

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)

A010 cu o3 (azurite)

C015 cu o2 (cuprite)

P070 concretions

U005 cu (copper)

Identification

115 visual

Storage

40 polyethylene bag

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100134	016/024	E	016A	00404	1	small finds
	Material	cu alloy (copper)		Function	straight pin, unidentifiable	

Comment

Condition

A005 cu o2 ca co3 (malachite)
 A010 cu o3 (azurite)
 C015 cu o2 (cuprite)
 P015 good
 U005 cu (copper)

Identification

115 visual

Storage

45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100582	018	E	018	00290	1	small finds
	Material	cu alloy (copper)		Function	straight pin, wrapped head	

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)
 A010 cu o3 (azurite)
 C015 cu o2 (cuprite)
 P050 broken
 U005 cu (copper)

Identification

115 visual

Storage

40 polyethylene bag

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
2684	018	E	018	00723	1	small finds
	Material	bone/faunal		Function	button blank	

Comment

131 conserved

Condition

P105 desiccated
 P110 dirty

Identification

115 visual

Storage

40 polyethylene bag

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100543	018	E	018	00725	1	small finds
	Material	cu alloy (copper)		Function	buckles	

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)
 A010 cu o3 (azurite)
 C015 cu o2 (cuprite)

U005 cu (copper)

Identification

115 visual

Storage

40 polyethylene bag

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100645	019	G	019	00295	1	small finds
	Material	cu alloy (copper)		Function	button	

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)

A010 cu o3 (azurite)

C015 cu o2 (cuprite)

U005 cu (copper)

P135 encrusted

Identification

115 visual

Storage

40 polyethylene bag

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100646	019	G	019	00295	0	small finds
	Material	cu alloy (copper)		Function	America - two cent piece	

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)

A010 cu o3 (azurite)

C015 cu o2 (cuprite)

U005 cu (copper)

P135 encrusted

Identification

115 visual

Storage

40 polyethylene bag

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
2724	024	E	016A	00343	1	small finds
	Material	cu alloy (copper)		Function	barrel hardware	

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)

A010 cu o3 (azurite)

C015 cu o2 (cuprite)

U005 cu (copper)

Identification

115 visual

Storage

40 polyethylene bag

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
2651	024	F	519	00297	1	small finds
	Material	bone/faunal		Function	button	

Comment

131 conserved

Condition

P105 desiccated

P110 dirty

Identification

115 visual

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
2652	024	F	519	00297	2	small finds
	Material	cu alloy (copper)		Function	coin-shaped slug	

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)

A010 cu o3 (azurite)

C015 cu o2 (cuprite)

U005 cu (copper)

Identification

115 visual

Storage

40 polyethylene bag

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
2678	027	B	027	00569	1	small finds
	Material	cu alloy (copper)		Function	thimble	

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)

A010 cu o3 (azurite)

C015 cu o2 (cuprite)

U005 cu (copper)

Identification

115 visual

Storage

40 polyethylene bag

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
2758	027	B	027	00569	2	small finds
	Material	white metal		Function	button	

Comment

131 conserved

Condition

U025 sn (tin)
 U020 zn (zinc)
 C020 pb o2 (lead)
 A015 pb ca co3 (lead)
 C025 sn o2 (tin)

Storage

45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
2740	027	B	027	00704	1	small finds
	Material	sn plate (tin)		Function	button	

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)
 A010 cu o3 (azurite)
 C015 cu o2 (cuprite)
 U005 cu (copper)
 A025 tin pest
 B045 sulphide deposits

Identification

115 visual

Storage

45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100898	027	B	027	00704	2	small finds
	Material	cu alloy (copper)		Function	straight pin, wrapped head	

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)
 A010 cu o3 (azurite)
 C015 cu o2 (cuprite)
 P050 broken
 U005 cu (copper)

Identification

115 visual

Storage

40 polyethylene bag

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100775	029	E	029	00504	1	small finds
	Material	fe (iron)		Function	unident obj	

Barrier

B010 micro-crystalline wax

SolventPercent

0

Comment

131 conserved

Condition

C005 fe o2 (ferrous)

C010 fe o3 (ferric)

Identification

115 visual

Storage

40 polyethylene bag

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
2682	037	G	037	00672	1	small finds
	Material	bone/faunal		Function	brush	

Comment

131 conserved

Condition

P105 desiccated

P110 dirty

Identification

115 visual

Storage

40 polyethylene bag

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100593	037	G	037	00672	2	small finds
	Material	cu alloy (copper)		Function	straight pin, unidentifiable	

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)

A010 cu o3 (azurite)

C015 cu o2 (cuprite)

P050 broken

U005 cu (copper)

Identification

115 visual

Storage

40 polyethylene bag

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100055	037	G	037	00672	3	small finds
	Material	metal & glass		Function	button	

Comment

131 conserved

Condition

P015 good

A005 cu o2 ca co3 (malachite)

A010 cu o3 (azurite)

U005 cu (copper)

P099 other

C015 cu o2 (cuprite)

Identification

115 visual

Storage

40 polyethylene bag

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
2749	037	G	037	00672	4	small finds
	Material	bone/faunal		Function	brush	

Condition

P105 desiccated

P110 dirty

P050 broken

Identification

115 visual

Storage

40 polyethylene bag

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100672	043/44	B	027	00716	1	small finds
	Material	cu alloy (copper)		Function	function unknown	

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)

A010 cu o3 (azurite)

C015 cu o2 (cuprite)

U005 cu (copper)

P080 cracking

Identification

115 visual

Storage

40 polyethylene bag

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
2586	051	G	051	00391	1	small finds
	Material	bone/faunal		Function	button	

Comment

131 conserved

Condition

P105 desiccated

P110 dirty

Identification

115 visual

Storage

40 polyethylene bag

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100608	051	G	051	00391	2	small finds
	Material	cu alloy (copper)		Function	straight pin, wrapped head	

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)

A010 cu o3 (azurite)

C015 cu o2 (cuprite)

U005 cu (copper)

Identification

115 visual

Storage

40 polyethylene bag

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100943	051	G	051	00391	3	small finds
	Material	pb (lead)		Function	function unknown	

Comment

131 conserved

Condition

A025 tin pest

Identification

115 visual

Storage

40 polyethylene bag

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100584	051	G	051	00417	1	small finds
	Material	cu alloy (copper)		Function	straight pin, unidentifiable	

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)

A010 cu o3 (azurite)

C015 cu o2 (cuprite)

P050 broken

U005 cu (copper)

Identification

115 visual

Storage

40 polyethylene bag

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100635	051	G	051	00417	2	small finds
	Material	cu alloy (copper)		Function	button	

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)

A010 cu o3 (azurite)

C015 cu o2 (cuprite)

P135 encrusted

U005 cu (copper)

Identification

115 visual

Storage

40 polyethylene bag

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
2201	051	G	051	00421	1	small finds
	Material	cu alloy (copper)		Function	tack	

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)

A010 cu o3 (azurite)

C015 cu o2 (cuprite)

H005 nantokite

U005 cu (copper)

Identification

115 visual

Storage

40 polyethylene bag

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
2658	051	G	051	00421	2	small finds
	Material	cu alloy (copper)		Function	straight pin, wrapped head	

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)

A010 cu o3 (azurite)

C015 cu o2 (cuprite)

U005 cu (copper)

Identification

115 visual

Storage

40 polyethylene bag

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100590	051	G	051	00421	3	small finds
	Material	cu alloy (copper)		Function	misc. personal object (see written cmts)	

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)

A010 cu o3 (azurite)

C015 cu o2 (cuprite)

P015 good

U005 cu (copper)

Identification

115 visual

Storage

40 polyethylene bag

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
2659	051	G	051	00421	4	small finds
	Material	cu alloy (copper)		Function	eye	

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)

A010 cu o3 (azurite)

C015 cu o2 (cuprite)

U005 cu (copper)

Identification

115 visual

Storage

40 polyethylene bag

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100030	051	G	051	00421	5	small finds
	Material	cu alloy (copper)		Function	button	

Condition

A005 cu o2 ca co3 (malachite)

A010 cu o3 (azurite)

C015 cu o2 (cuprite)

U005 cu (copper)

Identification

115 visual

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
2661	051	G	051	00421	6	small finds
	Material	cu alloy (copper)		Function	pendant / medallion	

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)

A010 cu o3 (azurite)

C015 cu o2 (cuprite)

U005 cu (copper)

Identification

115 visual

Storage

40 polyethylene bag

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100666	051	G	051	00421	7	small finds
	Material	cu alloy (copper)		Function	strapping	

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)

A010 cu o3 (azurite)

C015 cu o2 (cuprite)

U005 cu (copper)

Identification

115 visual

Storage

40 polyethylene bag

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100662	051	G	051	00421	8	small finds
	Material	cu alloy (copper)		Function	straight pin, unidentifiable	

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)

A010 cu o3 (azurite)

C015 cu o2 (cuprite)

U005 cu (copper)

Identification

115 visual

Storage

40 polyethylene bag

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
2715	051	G	051	00437	1	small finds
	Material	cu alloy (copper)		Function	straight pin, wrapped head	

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)

A010 cu o3 (azurite)

C015 cu o2 (cuprite)

U005 cu (copper)

Identification

115 visual

Storage

40 polyethylene bag

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100758	051	G	051	00437	2	small finds
	Material	pb (lead)		Function	function unknown	

Comment

131 conserved

Condition

A025 tin pest

Identification

115 visual

Storage

40 polyethylene bag

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100046	051	G	051	00439	1	small finds
	Material	cu alloy (copper)		Function	straight pin, wrapped head	

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)

A010 cu o3 (azurite)

C015 cu o2 (cuprite)

U005 cu (copper)

Identification

115 visual

Storage

40 polyethylene bag

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100949	051	G	051	00773	1	small finds
	Material	cu alloy (copper)		Function	straight pin, unidentifiable	

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)

A010 cu o3 (azurite)

C015 cu o2 (cuprite)

U005 cu (copper)

Identification

115 visual

Storage

25 ethafoam

45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100956	051	G	051	00773	1	small finds
	Material	cu alloy (copper)		Function	straight pin, unidentifiable	

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)

A010 cu o3 (azurite)

C015 cu o2 (cuprite)

U005 cu (copper)

Identification

115 visual

Storage

40 polyethylene bag

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
2199	051	L	521	00367	1	small finds
	Material	cu alloy (copper)		Function	straight pin, wrapped head	

Condition

A005 cu o2 ca co3 (malachite)

A010 cu o3 (azurite)

C015 cu o2 (cuprite)

H005 nantokite

U005 cu (copper)

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100271	056N	zz	056	00911	1	small finds
	Material	galvanized steel		Function	hardware, misc.	

Comment

131 conserved

Condition

C005 fe o2 (ferrous)

C010 fe o3 (ferric)

P115 distorted

Identification

115 visual

Storage

40 polyethylene bag

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100553	056S	zz	056	00915	1	small finds
	Material	cu alloy (copper)		Function	coin, unidentifiable	

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)

A010 cu o3 (azurite)

C015 cu o2 (cuprite)

U005 cu (copper)

Identification

115 visual

Storage

40 polyethylene bag

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100674	056S	zz	056	00915	2	small finds
	Material	cu alloy (copper)		Function	function unknown	

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)

A010 cu o3 (azurite)

C015 cu o2 (cuprite)

U005 cu (copper)

Identification

115 visual

Storage

40 polyethylene bag

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100598	056S	zz	056	00921	1	small finds
	Material	cu alloy (copper)		Function	button	

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)

A010 cu o3 (azurite)

C015 cu o2 (cuprite)

U005 cu (copper)

Identification

115 visual

Storage

40 polyethylene bag

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
2735	056S	zz	056	00921	2	small finds
	Material	glass		Function	collar stud	

Comment

131 conserved

Condition

P215 staining

P040 abraded surface

P050 broken

Identification

115 visual

Storage

40 polyethylene bag

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
2685	056S	zz	056	00927	1	small finds
	Material	cu alloy (copper)		Function	button	

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)

A010 cu o3 (azurite)

C015 cu o2 (cuprite)

U005 cu (copper)

Identification

115 visual

Storage

40 polyethylene bag

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100042	056S	zz	056	00927	2	small finds
	Material	cu alloy (copper)		Function	Portugal - 10 Reis, Iosephus	

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)

A010 cu o3 (azurite)

C015 cu o2 (cuprite)

U005 cu (copper)

Identification

115 visual

Storage

40 polyethylene bag

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
2686	056S	zz	056	00927	3	small finds
	Material	cu alloy (copper)		Function	button	

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)

A010 cu o3 (azurite)

C015 cu o2 (cuprite)

U005 cu (copper)

Identification

115 visual

Storage

15 acid free paper

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100536	056S	zz	056	00927	4	small finds
	Material	cu alloy (copper)		Function	button	

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)

A010 cu o3 (azurite)

C015 cu o2 (cuprite)

P015 good

Identification

115 visual

Storage

40 polyethylene bag

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
2687	056S	zz	056	00927	6	small finds
	Material	cu alloy (copper)		Function	unident obj	

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)

A010 cu o3 (azurite)

C015 cu o2 (cuprite)

U005 cu (copper)

Identification

115 visual

Storage

40 polyethylene bag

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100554	056S	zz	056	00927	7	small finds
	Material	cu alloy (copper)		Function	function unknown	

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)

A010 cu o3 (azurite)

C015 cu o2 (cuprite)

U005 cu (copper)

Identification

115 visual

Storage

40 polyethylene bag

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
2688	056S	zz	056	00927	8	small finds
	Material	cu alloy (copper)		Function	button	

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)

A010 cu o3 (azurite)

C010 fe o3 (ferric)

U005 cu (copper)

Identification

115 visual

Storage

40 polyethylene bag

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100601	056S	zz	056	00927	9	small finds
	Material	cu alloy (copper)		Function	coin, unidentifiable	

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)

A010 cu o3 (azurite)

C015 cu o2 (cuprite)

U005 cu (copper)

Identification

115 visual

Storage

40 polyethylene bag

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
2738	056S	zz	056	00927	10	small finds
	Material	cu alloy (copper)		Function	button	
<u>Comment</u>						
131	conserved					
<u>Condition</u>						
A005	cu o2 ca co3 (malachite)					
A010	cu o3 (azurite)					
C015	cu o2 (cuprite)					
U005	cu (copper)					
<u>Identification</u>						
115	visual					
<u>Storage</u>						
45	polyethylene box					

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100719	056S	zz	056	00927	11	small finds
	Material	bone/faunal		Function	button	
<u>Comment</u>						
131	conserved					
<u>Condition</u>						
P015	good					
P050	broken					
<u>Identification</u>						
115	visual					
<u>Storage</u>						
25	ethafoam					
45	polyethylene box					

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
2601	056S	zz	056	00929	1	small finds
	Material	bone/faunal		Function	button	
<u>Comment</u>						
131	conserved					
<u>Condition</u>						
P105	desiccated					
P110	dirty					
<u>Identification</u>						
115	visual					
<u>Storage</u>						
40	polyethylene bag					

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
2713	056S	zz	056	00930	1	small finds
	Material	cu alloy (copper)		Function	button	
<u>Comment</u>						
131	conserved					
<u>Condition</u>						
A005	cu o2 ca co3 (malachite)					
A010	cu o3 (azurite)					

C005 fe o2 (ferrous)

U005 cu (copper)

Identification

115 visual

Storage

40 polyethylene bag

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
2721	056S	zz	056	00933	2	small finds
	Material	cu alloy (copper)		Function	button	

Comment

131 conserved

Condition

A010 cu o3 (azurite)

A005 cu o2 ca co3 (malachite)

C015 cu o2 (cuprite)

U005 cu (copper)

Identification

115 visual

Storage

40 polyethylene bag

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
2689	056S	zz	056	00933	3	small finds
	Material	cu alloy (copper)		Function	button	

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)

A010 cu o3 (azurite)

C015 cu o2 (cuprite)

U005 cu (copper)

Identification

115 visual

Storage

40 polyethylene bag

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
2690	056S	zz	056	00933	4	small finds
	Material	cu alloy (copper)		Function	key hole/lock part	

Comment

131 conserved

Condition

A010 cu o3 (azurite)

A005 cu o2 ca co3 (malachite)

C015 cu o2 (cuprite)

U005 cu (copper)

Identification

115 visual

Storage

40 polyethylene bag

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100647	056S	zz	056	00938	1	small finds
	Material	cu alloy (copper)		Function	America - small cent - indian head	

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)

A010 cu o3 (azurite)

C015 cu o2 (cuprite)

U005 cu (copper)

P015 good

Identification

115 visual

Storage

40 polyethylene bag

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100661	056S	zz	056	00938	2	small finds
	Material	glass		Function	bead	

Comment

131 conserved

Condition

C060 iridescence

P015 good

C065 devitrified

Identification

115 visual

Storage

40 polyethylene bag

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100663	056S	zz	056	00938	3	small finds
	Material	bone & brass		Function	button	

BarrierSolventPercent

0

CleanerSolventPercent

B05 70% ethanol

0

Comment

131 conserved

Condition

P010 excellent

P110 dirty

ConsolidantSolventPercent

C005 micro-crystalline wax - hot wax

0

Identification

115 visual

Storage

40 polyethylene bag

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100664	056S	zz	056	00938	4	small finds
	Material	bone & brass		Function	button	

Cleaner

B05 70% ethanol

SolventPercent

0

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)

A010 cu o3 (azurite)

C015 cu o2 (cuprite)

U005 cu (copper)

P050 broken

ConsolidantSolventPercent

C005 micro-crystalline wax - hot wax

0

Identification

115 visual

Storage

40 polyethylene bag

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
2742	056S	zz	056	01011	1	small finds
	Material	graphite		Function	lead pencil	

Comment

130 sent to conservation

Condition

P050 broken

Identification

115 visual

Storage

40 polyethylene bag

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100054	058N	B	058d	01342	1	small finds
	Material	cu alloy (copper)		Function	tack, upholstery	

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)

A010 cu o3 (azurite)

C015 cu o2 (cuprite)

U005 cu (copper)

P015 good

ConsolidantSolventPercent

P099 other

0

Identification

115 visual

Storage

40 polyethylene bag

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100043	058N	B	058d	01358	1	small finds
	Material	cu alloy (copper)		Function	rivet, furniture or hardware related	

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)

A010 cu o3 (azurite)

C015 cu o2 (cuprite)

U005 cu (copper)

Identification

115 visual

Storage

40 polyethylene bag

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100095	058N	B	058d	01364	1	small finds
	Material	cu alloy (copper)		Function	cabinet handle / lock parts	

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)

A010 cu o3 (azurite)

C015 cu o2 (cuprite)

U005 cu (copper)

Identification

115 visual

Storage

40 polyethylene bag

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
2701	058N	B	058d	01364	2	small finds
	Material	cu alloy (copper)		Function	button	

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)

A010 cu o3 (azurite)

C015 cu o2 (cuprite)

U005 cu (copper)

Identification

115 visual

Storage

40 polyethylene bag

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
2702	058N	B	058d	01365	1	small finds
	Material	bone/faunal		Function	button	

Comment

131 conserved

Condition

P105 desiccated

P110 dirty

Identification

115 visual

Storage

40 polyethylene bag

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100268	058N	B	058d	01365	2	small finds
	Material	porcelain		Function	marble	

Cleaner

L15 dei-h2o (deionized water)

SolventPercent

0

Comment

131 conserved

Condition

P040 abraded surface

P075 corroded

P110 dirty

Identification

115 visual

Storage

40 polyethylene bag

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100530	058N	B	058d	01371	1	small finds
	Material	cu alloy (copper)		Function	wire, miscellaneous	

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)

A010 cu o3 (azurite)

C015 cu o2 (cuprite)

U005 cu (copper)

Identification

115 visual

Storage

40 polyethylene bag

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100093	058N	B	058d	01371	2	small finds
	Material	pb (lead)		Function	musket ball	

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)

A010 cu o3 (azurite)

C015 cu o2 (cuprite)

U005 cu (copper)

Identification

115 visual

Storage

40 polyethylene bag

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
2700	058N	zz	058c	01360	1	small finds
	Material	cu alloy (copper)		Function	button	

Comment

131 conserved

Condition

P105 desiccated

P110 dirty

Identification

115 visual

Storage

40 polyethylene bag

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
2765	058N	zz	058c	01360	2	small finds
	Material	cu alloy (copper)		Function	eye glass parts	

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)

A010 cu o3 (azurite)

U005 cu (copper)

C015 cu o2 (cuprite)

Identification

115 visual

Storage

40 polyethylene bag

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100578	058N	zz	058c	01360	3	small finds
	Material	cu alloy (copper)		Function	straight pin, unidentifiable	

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)

A010 cu o3 (azurite)

C015 cu o2 (cuprite)

P015 good

U005 cu (copper)

Identification

115 visual

Storage

40 polyethylene bag

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
2613	058N	zz	058c	01372	1	small finds
	Material	bone/faunal		Function	button	

Comment

131 conserved

Condition

P105 desiccated

P110 dirty

Identification

115 visual

Storage

40 polyethylene bag

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100585	058N	zz	058c	01372	2	small finds
	Material	cu alloy (copper)		Function	straight pin, wrapped head	

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)

A010 cu o3 (azurite)

C015 cu o2 (cuprite)

P050 broken

U005 cu (copper)

Identification

115 visual

Storage

40 polyethylene bag

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100069	058N	zz	058c	01373	1	small finds
	Material	cu alloy (copper)		Function	eye glass parts	

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)

A010 cu o3 (azurite)

C015 cu o2 (cuprite)

U005 cu (copper)

Identification

115 visual

Storage

40 polyethylene bag

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
2704	058N	zz	058c	01378	1	small finds
	Material	bone/faunal		Function	button	

Comment

131 conserved

Condition

P105 desiccated

P110 dirty

Identification

115 visual

Storage

40 polyethylene bag

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100591	058N	zz	058c	01378	2	small finds
	Material	cu alloy (copper)		Function	eye glass parts	

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)

A010 cu o3 (azurite)

C015 cu o2 (cuprite)

U005 cu (copper)

Identification

115 visual

Storage

40 polyethylene bag

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
2722	058S	B	058d	01062	1	small finds
	Material	cu alloy (copper)		Function	button	

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)

A010 cu o3 (azurite)

C015 cu o2 (cuprite)

U005 cu (copper)

Identification

115 visual

Storage

40 polyethylene bag

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
2691	058S	B	058d	01062	2	small finds
	Material	cu alloy (copper)		Function	button	

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)

A010 cu o3 (azurite)

C015 cu o2 (cuprite)

U005 cu (copper)

Identification

115 visual

Storage

40 polyethylene bag

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
2692	058S	B	058d	01096	1	small finds
	Material	cu alloy (copper)		Function	America - small cent - indian head	

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)

A010 cu o3 (azurite)

C015 cu o2 (cuprite)

U005 cu (copper)

Identification

115 visual

Storage

40 polyethylene bag

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100950	058S	B	058d	01119	1	small finds
	Material	cu alloy (copper)		Function	buckles	

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)

A010 cu o3 (azurite)

C015 cu o2 (cuprite)

U005 cu (copper)

Identification

115 visual

Storage

40 polyethylene bag

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100957	058S	B	058d	01119	1	small finds
	Material	cu alloy (copper)		Function	buckles	

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)

A010 cu o3 (azurite)

C015 cu o2 (cuprite)

U005 cu (copper)

Identification

115 visual

Storage

40 polyethylene bag

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
2693	058S	B	058d	01119	2	small finds
	Material	bone/faunal		Function	button	

Comment

131 conserved

Condition

P105 desiccated

P110 dirty

Identification

115 visual

Storage

40 polyethylene bag

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
2609	058S	B	058d	02134	1	small finds
	Material	glass		Function	bead	

Comment

131 conserved

Condition

P105 desiccated

P110 dirty

Identification

115 visual

Storage

40 polyethylene bag

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100270	058S	B	511	01032	1	small finds
	Material	plastic		Function	unident obj	

Cleaner

L20 tap h2o

SolventPercent

0

Comment

245 see written comments

Condition

P050 broken

Identification

115 visual

Storage

40 polyethylene bag

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100628	058S	B	511	01032	2	small finds
	Material	cu alloy (copper)		Function	grommet, clothing related	

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)

A010 cu o3 (azurite)

C015 cu o2 (cuprite)

P015 good

U005 cu (copper)

Identification

115 visual

Storage

40 polyethylene bag

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100563	058S	C	058c	01131	1	small finds
	Material	cu alloy (copper)		Function	button	

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)

A010 cu o3 (azurite)

C015 cu o2 (cuprite)

P015 good

U005 cu (copper)

Identification

115 visual

Storage

40 polyethylene bag

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100564	058S	zz	058a	01311	1	small finds
	Material	cu alloy (copper)		Function	function unknown	

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)

A010 cu o3 (azurite)

C015 cu o2 (cuprite)

P015 good

U005 cu (copper)

Identification

115 visual

Storage

40 polyethylene bag

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100045	058S	zz	058a	01318	1	small finds
	Material	cu alloy (copper)		Function	unident obj	

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)

A010 cu o3 (azurite)

C015 cu o2 (cuprite)

U005 cu (copper)

Identification

115 visual

Storage

40 polyethylene bag

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
2698	058S	zz	058a	01325	1	small finds
	Material	cu alloy (copper)		Function	button	

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)

A010 cu o3 (azurite)

C015 cu o2 (cuprite)

U005 cu (copper)

Identification

115 visual

Storage

40 polyethylene bag

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
2694	058S	zz	058c	01140	1	small finds
	Material	bone/faunal		Function	sewing related object, misc.	

Comment

131 conserved

Condition

P105 desiccated

P110 dirty

Identification

115 visual

Storage

40 polyethylene bag

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
2695	058S	zz	058c	01140	2	small finds
	Material	bone/faunal		Function	button	

Comment

131 conserved

Condition

P105 desiccated

P110 dirty

Identification

115 visual

Storage

40 polyethylene bag

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100583	058S	zz	058c	01140	3	small finds
	Material	cu alloy (copper)		Function	function unknown	

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)
 A010 cu o3 (azurite)
 C015 cu o2 (cuprite)
 P015 good
 U005 cu (copper)

Identification

115 visual

Storage

40 polyethylene bag

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
2696	058S	zz	058c	01166	1	small finds
	Material	bone/faunal		Function	button	

Comment

131 conserved

Condition

P105 desiccated
 P110 dirty

Identification

115 visual

Storage

40 polyethylene bag

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100762	058SW	zz	058c	01175	1	small finds
	Material	woven cloth		Function	textile	

Comment

131 conserved

Condition

P105 desiccated
 P110 dirty
 P115 distorted
 C050 pseudomorph

Identification

115 visual

Storage

40 polyethylene bag

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100272	058SW	zz	058c	01175	2	small finds
	Material	pb (lead)		Function	function unknown	

Cleaner

L20 tap h2o

SolventPercent

0

Comment

131 conserved

Condition

P050 broken
 P110 dirty

Identification

115 visual

Storage

40 polyethylene bag

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100709	077	zz	077a	01027	1	small finds
	Material	bone & ferrous metal		Function	table utensil, unidentified	

Adhesive

P005 50% b-72 (hmg)

SolventPercent

0

Comment

131 conserved

Condition

P015 good

P040 abraded surface

Identification

115 visual

Storage

25 ethafoam

45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100694	077	zz	511	01020	1	small finds
	Material	bone & ferrous metal		Function	table utensil, unidentified	

Comment

131 conserved

Condition

P020 fair

P050 broken

P045 brittle

Identification

115 visual

Storage

25 ethafoam

45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100701	077	zz	511	01020	2	small finds
	Material	bone & ferrous metal		Function	table utensil, unidentified	

Comment

131 conserved

Condition

P015 good

C010 fe o3 (ferric)

Consolidant

C005 micro-crystalline wax - hot wax

SolventPercent

0

Identification

115 visual

Storage

25 ethafoam

40 polyethylene bag

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
2745	077E	Z	077a	01203	1	small finds
	Material	cu alloy (copper)		Function	straight pin, unidentifiable	

CommentCondition

A005 cu o2 ca co3 (malachite)

A010 cu o3 (azurite)

C015 cu o2 (cuprite)

U005 cu (copper)

Identification

115 visual

Storage

45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
2747	077E	Z	077a	01203	2	small finds
	Material	cu alloy (copper)		Function	straight pin, unidentifiable	

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)

A010 cu o3 (azurite)

C005 fe o2 (ferrous)

U005 cu (copper)

Identification

115 visual

Storage

45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100788	077E	Z	077a	01203	3	small finds
	Material	wood & fiber		Function	function unknown	

Comment

131 conserved

Condition

P015 good

P155 fragmented

Identification

115 visual

Storage

25 ethafoam

45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
2605	077E	zz	077b	01157	1	small finds
	Material	bone/faunal		Function	button	

Comment

131 conserved

Condition

P110 dirty

P105 desiccated

Identification

115 visual

Storage

40 polyethylene bag

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100597	077E	zz	077b	01157	2	small finds
	Material	cu alloy (copper)		Function	coin, unidentifiable	

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)

A010 cu o3 (azurite)

C015 cu o2 (cuprite)

H005 nantokite

U005 cu (copper)

Identification

115 visual

Storage

40 polyethylene bag

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100191	077E	zz	077b	01157	3	small finds
	Material	glass		Function	eye glass parts	

Identification

115 visual

Storage

40 polyethylene bag

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100710	077W	zz	077b	01090	1	small finds
	Material	bone & ferrous metal		Function	table utensil, unidentified	

Comment

131 conserved

Condition

P020 fair

P045 brittle

P080 cracking

C005 fe o2 (ferrous)

Consolidant

C005 micro-crystalline wax - hot wax

Solvent

Percent

0

Identification

115 visual

Storage

25 ethafoam

45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100711	077W	zz	077b	01104	1	small finds
	Material	bone & ferrous metal		Function	table utensil, unidentified	

Adhesive

P005 50% b-72 (hmg)

SolventPercent

0

Comment

131 conserved

Condition

P020 fair

C005 fe o2 (ferrous)

P050 broken

Identification

115 visual

Storage

25 ethafoam

45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100607	079	I	511	00999	1	small finds
	Material	cu alloy (copper)		Function	snap	

Comment

131 conserved

Condition

A025 tin pest

Storage

40 polyethylene bag

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100594	079N	zz	079	01033	1	small finds
	Material	rubber		Function	miscellaneous stopper	

Cleaner

B05 70% ethanol

SolventPercent

0

Comment

131 conserved

Condition

P105 desiccated

P080 cracking

P095 crumbling

P200 shrinkage

Identification

115 visual

Storage

40 polyethylene bag

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100535	091N	zz	091	01034	1	small finds
	Material	cu alloy (copper)		Function	straight pin, unidentifiable	

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)

A010 cu o3 (azurite)

C015 cu o2 (cuprite)

U005 cu (copper)

Identification

115 visual

Storage

25 ethafoam

45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100063	091S	zz	091	01127	1	small finds
	Material	cu alloy (copper)		Function	straight pin, unidentifiable	

Comment

131 conserved

Condition

A010 cu o3 (azurite)

A005 cu o2 ca co3 (malachite)

C015 cu o2 (cuprite)

U005 cu (copper)

Identification

115 visual

Storage

40 polyethylene bag

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100586	091S	zz	091	01127	2	small finds
	Material	pb (lead)		Function	activity, misc.	

Comment

131 conserved

Condition

C020 pb o2 (lead)

P015 good

U010 pb (lead)

Identification

115 visual

Storage

40 polyethylene bag

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
2772	091S	zz	091	01127	3	small finds
	Material	stone		Function	marble	

Comment

143 washed and labeled

Condition

P015 good

Identification

115 visual

Storage

40 polyethylene bag

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
2766	091S	zz	091	01137	1	small finds
	Material	cu alloy (copper)		Function	button	

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)

A010 cu o3 (azurite)

C015 cu o2 (cuprite)

U005 cu (copper)

Identification

115 visual

Storage

40 polyethylene bag

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100951	101S	zz	101	01195	1	small finds
	Material	cu alloy (copper)		Function	straight pin, one piece construction	

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)

A010 cu o3 (azurite)

P015 good

C015 cu o2 (cuprite)

U005 cu (copper)

P050 broken

Identification

115 visual

Storage

40 polyethylene bag

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100958	101S	zz	101	01195	1	small finds
	Material	cu alloy (copper)		Function	straight pin, one piece construction	

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)

A010 cu o3 (azurite)

C015 cu o2 (cuprite)

U005 cu (copper)

P015 good

P050 broken

Identification

115 visual

Storage

40 polyethylene bag

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
2209	103	B	103	01235	1	small finds
	Material	cu alloy (copper)		Function	clock parts	

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100740	104	zz	104	01260	1	small finds
	Material	fe (iron)		Function	padlock, miscellaneous	

Barrier

B015 hot wax

SolventPercent

0

Comment

131 conserved

Condition

P015 good

C005 fe o2 (ferrous)

C010 fe o3 (ferric)

ConsolidantSolventPercent

C005 micro-crystalline wax - hot wax

0

Identification

115 visual

Storage

40 polyethylene bag

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100772	104	zz	104	01260	2	small finds
	Material	fe (iron)		Function	wire, miscellaneous	

Comment

131 conserved

Condition

C005 fe o2 (ferrous)

C010 fe o3 (ferric)

Identification

115 visual

Storage

40 polyethylene bag

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100708	104N	zz	104	01276	1	small finds
	Material	bone & ferrous metal		Function	table utensil, unidentified	

Comment

131 conserved

Condition

P015 good

P050 broken

Identification

115 visual

Storage

25 ethafoam

45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
2608	104S	zz	104	01253	1	small finds
	Material	bone/faunal		Function	button	

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)

A010 cu o3 (azurite)

C015 cu o2 (cuprite)

U005 cu (copper)

Identification

115 visual

Storage

40 polyethylene bag

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
2699	110	B	110	01346	1	small finds
	Material	ivory		Function	dice/die	

Comment

131 conserved

Condition

P105 desiccated

P110 dirty

Identification

115 visual

Storage

40 polyethylene bag

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100527	110	B	110	01349	1	small finds
	Material	cardboard		Function	activity, misc.	

Cleaner

B05 70% ethanol

SolventPercent

0

Comment

131 conserved

Condition

P020 fair

P045 brittle

Identification

115 visual

Storage

40 polyethylene bag

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100038	112	B	112	01424	1	small finds
	Material	cu alloy (copper)		Function	misc. object	

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)

A010 cu o3 (azurite)

C015 cu o2 (cuprite)

U005 cu (copper)

Storage

40 polyethylene bag

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
2767	112	B	112	01424	2	small finds
	Material	earthenware		Function	marble	

Comment

143 washed and labeled

Condition

P040 abraded surface

P075 corroded

P185 pitted

Identification

115 visual

Storage

40 polyethylene bag

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
2769	112	B	112	01425	1	small finds
	Material	marble		Function	marble	

Comment

143 washed and labeled

Condition

P120 discoloration

P215 staining

Identification

115 visual

Storage

40 polyethylene bag

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
2778	138W	B	138	01672	1	small finds
	Material	wood		Function	barrel stave	

Comment

131 conserved

Condition

P105 desiccated

P110 dirty

Identification

115 visual

Storage

40 polyethylene bag

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
2617	138W	Unassigned	Unassigned	01677	1	small finds
	Material	bone/faunal		Function	button	

Comment

131 conserved

Condition

P105 desiccated

P110 dirty

Identification

115 visual

Storage

40 polyethylene bag

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
2709	138W	Unassigned	Unassigned	01677	1	tobacco pipe
	Material	bone/faunal		Function	----	

Comment

131 conserved

Condition

P105 desiccated

P110 dirty

Identification

115 visual

Storage

40 polyethylene bag

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
2618	138W	Unassigned	Unassigned	01677	2	small finds
	Material	bone/faunal		Function	button	

Comment

131 conserved

Condition

P110 dirty

P105 desiccated

Identification

115 visual

Storage

40 polyethylene bag

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
2779	138W	Unassigned	Unassigned	01677	3	small finds
	Material	wood		Function	----	

Comment

131 conserved

Identification

115 visual

Storage

45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100896	140b	B	140b	02001	1	small finds
	Material	fe (iron)		Function	hardware	

Comment

131 conserved

Condition

C005 fe o2 (ferrous)

C010 fe o3 (ferric)

Identification

115 visual

Storage

40 polyethylene bag

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
2788	140b	B	140b	02001	2	small finds
	Material	cu alloy (copper)		Function	tack	

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)

A010 cu o3 (azurite)

C015 cu o2 (cuprite)

U005 cu (copper)

H005 nantokite

Identification

115 visual

Storage

40 polyethylene bag

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
2718	140b	B	140b	02001	3	small finds
	Material	cu alloy (copper)		Function	household, misc.	

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)

A010 cu o3 (azurite)

C015 cu o2 (cuprite)

H005 nantokite

U005 cu (copper)

Identification

115 visual

Storage

40 polyethylene bag

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100058	140b	B	140b	02001	4	small finds
	Material	fe (iron)		Function	unident obj	

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)

A010 cu o3 (azurite)

C015 cu o2 (cuprite)

U005 cu (copper)

H005 nantokite

Identification

115 visual

Storage

40 polyethylene bag

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100770	160	G	160	01754	1	small finds
	Material	cu alloy (copper)		Function	function unknown	

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)

A010 cu o3 (azurite)

C015 cu o2 (cuprite)

U005 cu (copper)

Identification

115 visual

Storage

40 polyethylene bag

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100621	162	zz	162	01763	1	small finds
	Material	cu alloy (copper)		Function	button	

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)

A010 cu o3 (azurite)

C015 cu o2 (cuprite)

U005 cu (copper)

P020 fair

Identification

115 visual

Storage

15 acid free paper

45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100899	163	Unassigned	163	02075	1	small finds
	Material	cu alloy (copper)		Function	coin, misc.	

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)

A010 cu o3 (azurite)

C015 cu o2 (cuprite)

P050 broken

U005 cu (copper)

Identification

115 visual

Storage

25 ethafoam

45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100900	163	Unassigned	163	02075	2	small finds
	Material	copper alloy & silverplate		Function	coin-shaped slug	

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)

A010 cu o3 (azurite)

C015 cu o2 (cuprite)

U005 cu (copper)

P040 abraded surface

Identification

115 visual

Storage

40 polyethylene bag

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100622	169	B	169	02054	1	small finds
	Material	cu alloy (copper)		Function	rivet, furniture or hardware related	

Comment

131 conserved

Condition

A010 cu o3 (azurite)

A005 cu o2 ca co3 (malachite)

C015 cu o2 (cuprite)

P015 good

U005 cu (copper)

Identification

115 visual

Storage

40 polyethylene bag

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100767	173	A	173	02091	1	small finds
	Material	graphite		Function	lead pencil	

Comment

131 conserved

Condition

P050 broken

P155 fragmented

P070 concretions

Identification

115 visual

Storage

40 polyethylene bag

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100768	173	A	173	02091	2	small finds
	Material	rubber		Function	eraser	

BarrierSolventPercent

B010 micro-crystalline wax

0

Comment

131 conserved

Condition

P045 brittle

P075 corroded

P105 desiccated

P140 exfoliating

P200 shrinkage

ConsolidantSolventPercent

C005 micro-crystalline wax - hot wax

0

Identification

115 visual

Storage

40 polyethylene bag

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100765	173	A	173	02091	3	small finds
	Material	chalk		Function	miscellaneous writing	

Comment

131 conserved

Condition

P095 crumbling

P155 fragmented

P190 powdered

Identification

115 visual

Storage

40 polyethylene bag

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100764	173	A	173	02091	4	small finds
	Material	hard rubber		Function	toy balls	

BarrierSolventPercent

B010 micro-crystalline wax

0

Comment

131 conserved

Condition

P045 brittle

P050 broken

P095 crumbling

P155 fragmented

Identification

115 visual

Method

115 swabbed

SolventPercent

0

Storage

40 polyethylene bag

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100217	173	A	173	02091	5	small finds
	Material	cu alloy (copper)		Function	straight pin, one piece construction	

Comment

131 conserved

Identification

115 visual

Storage

40 polyethylene bag

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
2739	173	A	173	02091	6	small finds
	Material	phenolic/sulphur compounds		Function	button	

Comment

131 conserved

Condition

P105 desiccated

P110 dirty

Identification

115 visual

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
2753	173	A	173	02091	7	small finds
	Material	glass		Function	bead	

Cleaner

B05 70% ethanol

SolventPercent

0

Comment

131 conserved

Condition

P105 desiccated

Identification

115 visual

Storage

45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
2759	173	A	173	02091	8	small finds
	Material	sn plate (tin)		Function	misc. fastener	

Comment

131 conserved

Condition

A003 copper carbonates

Identification

115 visual

Storage

45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100216	173	A	173	02091	9	small finds
	Material	mother of pearl		Function	button	

Comment

131 conserved

Condition

P045 brittle

P050 broken

P110 dirty

Identification

115 visual

Storage

40 polyethylene bag

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100124	B001	Unassigned	Unassigned	00200	1	small finds
	Material	cu alloy (copper)		Function	straight pin, wrapped head	

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)

A010 cu o3 (azurite)

C015 cu o2 (cuprite)

P015 good

U005 cu (copper)

Identification

115 visual

Storage

45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100354	B001	Unassigned	Unassigned	00200	2	small finds
	Material	floral		Function	function unknown	

Comment

131 conserved

Condition

P015 good

Identification

115 visual

Storage

45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100353	B005	Unassigned	Unassigned	00198	1	small finds
	Material	cu alloy (copper)		Function	straight pin, wrapped head	

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)

A010 cu o3 (azurite)
 C015 cu o2 (cuprite)
 P015 good
 U005 cu (copper)

Identification

115 visual

Storage

45 polyethylene box
 40 polyethylene bag

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100122	B006	Unassigned	Unassigned	00219	1	small finds
	Material	cu alloy (copper)		Function	button	

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)
 A010 cu o3 (azurite)
 C015 cu o2 (cuprite)
 U005 cu (copper)
 P015 good

Identification

115 visual

Storage

45 polyethylene box
 25 ethafoam

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100312	B006	Unassigned	Unassigned	00219	2	small finds
	Material	pb (lead)		Function	lead shot	

Comment

131 conserved

Condition

P015 good
 P040 abraded surface

Identification

115 visual

Storage

45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100313	B006	Unassigned	Unassigned	00219	3	small finds
	Material	cu alloy (copper)		Function	straight pin, unidentifiable	

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)
 A010 cu o3 (azurite)

C015 cu o2 (cuprite)

P015 good

P050 broken

U005 cu (copper)

Identification

115 visual

Storage

45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100439	B006	Unassigned	Unassigned	00219	4	small finds
	Material	pb/sn/ni alloy pewter		Function	button	

Comment

131 conserved

Condition

P025 poor

P045 brittle

P155 fragmented

U025 sn (tin)

Identification

115 visual

Storage

45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100440	B006	Unassigned	Unassigned	00219	5	small finds
	Material	copper and tin		Function	button	

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)

A010 cu o3 (azurite)

C015 cu o2 (cuprite)

P015 good

U005 cu (copper)

Identification

115 visual

Storage

45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100357	B007	Unassigned	Unassigned	00218	1	small finds
	Material	cu alloy (copper)		Function	straight pin, wrapped head	

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)

A010 cu o3 (azurite)

C015 cu o2 (cuprite)

P015 good
 U005 cu (copper)
 P050 broken

Identification

115 visual

Storage

45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100315	B008	Unassigned	Unassigned	00225	1	small finds
	Material	cu alloy (copper)		Function		straight pin, unidentifiable

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)
 A010 cu o3 (azurite)
 C015 cu o2 (cuprite)
 P015 good
 P050 broken
 U005 cu (copper)

Identification

115 visual

Storage

45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100355	B009	Unassigned	Unassigned	00233	1	small finds
	Material	wood		Function		function unknown

Comment

131 conserved

Condition

P015 good
 C010 fe o3 (ferric)

Identification

115 visual

Storage

45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100517	B010	Unassigned	Unassigned	00234	1	small finds
	Material	fe (iron)		Function		nail

Comment

131 conserved

Condition

P015 good

Identification

115 visual

Storage

15 acid free paper

45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100518	B010	Unassigned	Unassigned	00234	2	small finds
	Material	cu alloy (copper)		Function	cuff links	

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)

A010 cu o3 (azurite)

C015 cu o2 (cuprite)

P015 good

P155 fragmented

U005 cu (copper)

Identification

115 visual

Storage

25 ethafoam

45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100358	B010	Unassigned	Unassigned	00234	3	small finds
	Material	cu alloy (copper)		Function	button	

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)

A010 cu o3 (azurite)

C015 cu o2 (cuprite)

P015 good

U005 cu (copper)

Identification

115 visual

Storage

45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100359	B010	Unassigned	Unassigned	00234	4	small finds
	Material	cu alloy (copper)		Function	button shank	

Comment

131 conserved

Condition

P010 excellent

C015 cu o2 (cuprite)

Identification

115 visual

Storage

45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100314	B010	Unassigned	Unassigned	00234	5	small finds
	Material	cu alloy (copper)		Function	straight pin, wrapped head	

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)

A010 cu o3 (azurite)

C015 cu o2 (cuprite)

P015 good

U005 cu (copper)

Identification

115 visual

Storage

45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100337	B010	Unassigned	Unassigned	00234	6	small finds
	Material	cu alloy (copper)		Function	button	

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)

A010 cu o3 (azurite)

C015 cu o2 (cuprite)

P015 good

P050 broken

U005 cu (copper)

Identification

115 visual

Storage

45 polyethylene box

15 acid free paper

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100362	B010	Unassigned	Unassigned	00234	7	small finds
	Material	wool		Function	textile	

Comment

131 conserved

Condition

P015 good

P155 fragmented

Identification

115 visual

Method

015 brushed

SolventPercent

0

Storage

45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100910	B010 Material	Unassigned unidentifiable organics	Unassigned	00234	8	small finds
				Function	function unknown	

Comment

131 conserved

Condition

P015 good

P110 dirty

Identification

115 visual

Storage

15 acid free paper

45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100361	B012 Material	Unassigned cu alloy (copper)	Unassigned	00253	1	small finds
				Function	straight pin, wrapped head	

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)

C015 cu o2 (cuprite)

P015 good

U005 cu (copper)

Identification

115 visual

Storage

45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100125	B014 Material	Unassigned cu alloy (copper)	Unassigned	00274	1	small finds
				Function	straight pin, wrapped head	

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)

A010 cu o3 (azurite)

C015 cu o2 (cuprite)

P015 good

U005 cu (copper)

Identification

115 visual

Storage

45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100789	B014 Material	Unassigned cu alloy (copper)	Unassigned	00274	2	small finds
				Function	straight pin, unidentifiable	

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)
 A010 cu o3 (azurite)
 C015 cu o2 (cuprite)
 P015 good
 U005 cu (copper)

Identification

115 visual

Storage

25 ethafoam
 45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100446	B015	Unassigned	Unassigned	00286	1	small finds
	Material	fe (iron)		Function	coffin furniture	

Comment

131 conserved

Condition

P015 good
 P050 broken

Identification

115 visual
 120 x-ray fluorescence

Storage

45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100208	B016	Unassigned	Unassigned	00326	1	small finds
	Material	wood		Function	function unknown	

Condition

P120 discoloration
 P035 light
 P050 broken

Identification

115 visual

Storage

45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100126	B020	Unassigned	Unassigned	00347	1	small finds
	Material	cu alloy (copper)		Function	straight pin, unidentifiable	

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)
 A010 cu o3 (azurite)
 C015 cu o2 (cuprite)
 P015 good
 U005 cu (copper)

Identification

115 visual

Storage

45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100123	B022	Unassigned	Unassigned	00344	1	small finds
	Material	cu alloy (copper)		Function	straight pin, unidentifiable	

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)

A010 cu o3 (azurite)

C015 cu o2 (cuprite)

P015 good

U005 cu (copper)

Identification

115 visual

Storage

45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100678	B022	Unassigned	Unassigned	00344	2	small finds
	Material	copper alloy and organic		Function	straight pin, unidentifiable	

Comment

131 conserved

Condition

P015 good

P050 broken

U005 cu (copper)

Identification

115 visual

055 microscope

Storage

45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100679	B022	Unassigned	Unassigned	00344	3	small finds
	Material	linen		Function	textile	

Comment

131 conserved

Condition

P020 fair

P160 friable

Identification

115 visual

072 polarizing light microscope

Storage

45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100127	B024	Unassigned	Unassigned	00360	1	small finds
	Material	cu alloy (copper)		Function	straight pin, wrapped head	

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)

A010 cu o3 (azurite)

C015 cu o2 (cuprite)

P015 good

U005 cu (copper)

Identification

115 visual

Storage

45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100363	B025	Unassigned	Unassigned	00358	1	small finds
	Material	pb (lead)		Function	lead shot	

Comment

131 conserved

Condition

P015 good

P040 abraded surface

Identification

115 visual

Storage

45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100364	B026AJ	Unassigned	Unassigned	00406	1	small finds
	Material	shell		Function	function unknown	

Cleaner

B05 70% ethanol

SolventPercent

0

Comment

131 conserved

Condition

P010 excellent

Identification

115 visual

Storage

45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100219	B027	Unassigned	Unassigned	00378	1	small finds
	Material	cu alloy (copper)		Function	straight pin, wrapped head	

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)

A010 cu o3 (azurite)

C015 cu o2 (cuprite)

P015 good

U005 cu (copper)

Identification

115 visual

Storage

45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100128	B027	Unassigned	Unassigned	00378	2	small finds
	Material	leather		Function	unidentified	

Comment

131 conserved

Condition

P015 good

Identification

115 visual

Storage

45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100296	B031	Unassigned	Unassigned	00409	1	small finds
	Material	pb (lead)		Function	lead shot	

Comment

131 conserved

Condition

P020 fair

P040 abraded surface

P185 pitted

Identification

115 visual

Storage

40 polyethylene bag

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100344	B031	Unassigned	Unassigned	00409	2	small finds
	Material	wood & ferrous metal		Function	nail	

Comment

131 conserved

Condition

P015 good

P110 dirty

P050 broken

C015 cu o2 (cuprite)

Identification

115 visual

Method

015 brushed

SolventPercent

0

Storage

45 polyethylene box

15 acid free paper

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100680	B031	Unassigned	Unassigned	00409	3	small finds
	Material	cu alloy (copper)		Function		straight pin, unidentifiable

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)

A010 cu o3 (azurite)

C015 cu o2 (cuprite)

U005 cu (copper)

P015 good

Identification

115 visual

Storage

45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100791	B031	Unassigned	Unassigned	00409	4	small finds
	Material	cu alloy (copper)		Function		straight pin, wrapped head

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)

A010 cu o3 (azurite)

C015 cu o2 (cuprite)

P015 good

P050 broken

U005 cu (copper)

Identification

115 visual

Storage

25 ethafoam

45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100316	B032	Unassigned	Unassigned	00420	1	small finds
	Material	wood		Function		function unknown

Condition

P020 fair

Identification

115 visual

Storage

45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100478	B032	Unassigned	Unassigned	00420	2	small finds
	Material	pb/sn/ni alloy pewter		Function		button

Comment

131 conserved

Condition

C025 sn o2 (tin)

P025 poor

P050 broken

P105 desiccated

U025 sn (tin)

Identification

115 visual

Storage

15 acid free paper

45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100129	B037	Unassigned	Unassigned	00460	1	small finds
	Material	bone/faunal		Function	button	

Comment

131 conserved

Condition

P020 fair

P045 brittle

P040 abraded surface

Identification

115 visual

Storage

45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100130	B037	Unassigned	Unassigned	00460	2	small finds
	Material	cu alloy (copper)		Function	straight pin, unidentifiable	

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)

A010 cu o3 (azurite)

C015 cu o2 (cuprite)

P015 good

U005 cu (copper)

Identification

115 visual

Storage

45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100131	B038	Unassigned	Unassigned	00461	1	small finds
	Material	cu alloy (copper)		Function	straight pin, unidentifiable	

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)
 A010 cu o3 (azurite)
 C015 cu o2 (cuprite)
 P015 good
 U005 cu (copper)

Identification

115 visual

Storage

45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100317	B039	Unassigned	Unassigned	00509	1	small finds
	Material	wood & copper alloy		Function	function unknown	

Condition

P020 fair
 A005 cu o2 ca co3 (malachite)
 A010 cu o3 (azurite)
 C015 cu o2 (cuprite)
 P155 fragmented

Identification

115 visual

Storage

45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100132	B039	Unassigned	Unassigned	00509	2	small finds
	Material	cu alloy (copper)		Function	straight pin, wrapped head	

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)
 A010 cu o3 (azurite)
 C015 cu o2 (cuprite)
 P015 good
 U005 cu (copper)

Identification

115 visual

Storage

45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100133	B041	Unassigned	Unassigned	00525	1	small finds
	Material	fe (iron)		Function	nail	

Comment

131 conserved

Condition

P015 good
 P050 broken

P175 oxidized

Identification

115 visual

Storage

45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100135	B043	Unassigned	Unassigned	00561	1	small finds
	Material	cu alloy (copper)		Function	straight pin, wrapped head	

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)

A010 cu o3 (azurite)

C015 cu o2 (cuprite)

P015 good

U005 cu (copper)

Identification

115 visual

Storage

45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100790	B043	Unassigned	Unassigned	00561	2	small finds
	Material	cu alloy (copper)		Function	straight pin, wrapped head	

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)

A010 cu o3 (azurite)

C015 cu o2 (cuprite)

P015 good

P050 broken

U005 cu (copper)

Identification

115 visual

Storage

25 ethafoam

45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100894	B043	Unassigned	Unassigned	00561	3	small finds
	Material	cu alloy (copper)		Function	straight pin, unidentifiable	

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)

A010 cu o3 (azurite)

C015 cu o2 (cuprite)

P050 broken
U005 cu (copper)

Identification

115 visual

Storage

25 ethafoam
45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100792	B046	Unassigned	Unassigned	00605	1	small finds
	Material	cu alloy (copper)		Function	function unknown	

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)
A010 cu o3 (azurite)
C015 cu o2 (cuprite)
P110 dirty
U005 cu (copper)

Identification

115 visual

Storage

25 ethafoam
45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100924	B046	Unassigned	Unassigned	00605	2	small finds
	Material	fe (iron)		Function	nail	

Condition

C005 fe o2 (ferrous)
C010 fe o3 (ferric)

Identification

115 visual
116 x-ray

Storage

15 acid free paper
45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100914	B047	Unassigned	Unassigned	00619	1	small finds
	Material	unidentifiable organics		Function	function unknown	

Comment

131 conserved

Condition

P015 good

Identification

115 visual

Storage

15 acid free paper

45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100136	B049	Unassigned	Unassigned	00641	1	small finds
	Material	cu alloy (copper)		Function	straight pin, wrapped head	

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)

A010 cu o3 (azurite)

C015 cu o2 (cuprite)

P015 good

U005 cu (copper)

Identification

115 visual

Storage

45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100793	B049	Unassigned	Unassigned	00641	2	small finds
	Material	cu alloy (copper)		Function	straight pin, wrapped head	

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)

A010 cu o3 (azurite)

C015 cu o2 (cuprite)

U005 cu (copper)

Identification

115 visual

Storage

25 ethafoam

45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100520	B053	Unassigned	Unassigned	00708	1	small finds
	Material	fe (iron)		Function	nail	

Comment

131 conserved

Condition

P015 good

Identification

115 visual

Storage

15 acid free paper

45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100137	B053	Unassigned	Unassigned	00708	2	small finds
	Material	cu alloy (copper)		Function	straight pin, unidentifiable	

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)

A010 cu o3 (azurite)

C015 cu o2 (cuprite)

P015 good

U005 cu (copper)

Identification

115 visual

Storage

45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100683	B053	Unassigned	Unassigned	00708	3	small finds
	Material	unidentifiable organics		Function	function unknown	

Comment

131 conserved

Condition

P155 fragmented

P020 fair

Identification

115 visual

Storage

45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100923	B053	Unassigned	Unassigned	00708	4	small finds
	Material	fe (iron)		Function	nail	

Condition

C010 fe o3 (ferric)

C005 fe o2 (ferrous)

Identification

115 visual

116 x-ray

Storage

15 acid free paper

45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100138	B055	Unassigned	Unassigned	00792	1	small finds
	Material	cu alloy (copper)		Function	straight pin, wrapped head	

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)

A010 cu o3 (azurite)

C015 cu o2 (cuprite)

P015 good

U005 cu (copper)

Identification

115 visual

Storage

45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100831	B055	Unassigned	Unassigned	00792	2	small finds
	Material	calcite		Function	function unknown	

Comment

131 conserved

134 brought to attention of material specialist

Condition

P010 excellent

Identification

115 visual

Storage

25 ethafoam

45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100139	B056	Unassigned	Unassigned	00793	1	small finds
	Material	cu alloy (copper)		Function	straight pin, unidentifiable	

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)

A010 cu o3 (azurite)

C015 cu o2 (cuprite)

P015 good

U005 cu (copper)

Identification

115 visual

Storage

45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100794	B056	Unassigned	Unassigned	00793	2	small finds
	Material	copper alloy and organic		Function	straight pin, unidentifiable	

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)

A010 cu o3 (azurite)

C015 cu o2 (cuprite)

U005 cu (copper)

Identification

115 visual

Storage

25 ethafoam

45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100796	B057	Unassigned	Unassigned	00796	1	small finds
	Material	cu alloy (copper)		Function	straight pin, unidentifiable	

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)

A010 cu o3 (azurite)

C015 cu o2 (cuprite)

U005 cu (copper)

Identification

115 visual

Storage

25 ethafoam

45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100797	B057	Unassigned	Unassigned	00796	2	small finds
	Material	cu alloy (copper)		Function	straight pin, wrapped head	

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)

A010 cu o3 (azurite)

C015 cu o2 (cuprite)

U005 cu (copper)

Identification

115 visual

Storage

25 ethafoam

45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100365	B058	Unassigned	Unassigned	00797	1	small finds
	Material	cu alloy (copper)		Function	straight pin, unidentifiable	

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)

A010 cu o3 (azurite)

C015 cu o2 (cuprite)

P015 good

U005 cu (copper)

Identification

115 visual

Storage

45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100798	B059	Unassigned	Unassigned	00798	1	small finds
	Material	cu alloy (copper)		Function	straight pin, wrapped head	

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)

A010 cu o3 (azurite)

C015 cu o2 (cuprite)

U005 cu (copper)

Identification

115 visual

Storage

25 ethafoam

45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100869	B059	Unassigned	Unassigned	00798	2	small finds
	Material	cu alloy (copper)		Function	straight pin, wrapped head	

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)

A010 cu o3 (azurite)

C015 cu o2 (cuprite)

P050 broken

U005 cu (copper)

Identification

115 visual

Storage

25 ethafoam

45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100799	B060	Unassigned	Unassigned	00799	1	small finds
	Material	cu alloy (copper)		Function	straight pin, wrapped head	

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)

A010 cu o3 (azurite)

C015 cu o2 (cuprite)

U005 cu (copper)

Identification

115 visual

Storage

25 ethafoam

45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100881	B060	Unassigned	Unassigned	00799	2	small finds
	Material	cu alloy (copper)		Function	straight pin, wrapped head	

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)

A010 cu o3 (azurite)

C015 cu o2 (cuprite)

P050 broken

U005 cu (copper)

Identification

115 visual

Storage

25 ethafoam

45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100147	B061	Unassigned	Unassigned	00800	1	small finds
	Material	cu alloy (copper)		Function	straight pin, unidentifiable	

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)

A010 cu o3 (azurite)

C015 cu o2 (cuprite)

P015 good

U005 cu (copper)

Identification

115 visual

Storage

45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100297	B062	Unassigned	Unassigned	00801	1	small finds
	Material	pb (lead)		Function	lead shot	

Comment

131 conserved

Condition

A015 pb ca co3 (lead)

C020 pb o2 (lead)

P015 good

P040 abraded surface

U010 pb (lead)

Identification

115 visual

Storage

45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
2208	B062	Z	Unassigned	00802	1	small finds
	Material	cu alloy (copper)		Function	cuff links	

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)

A010 cu o3 (azurite)

C015 cu o2 (cuprite)

U005 cu (copper)

Storage

40 polyethylene bag

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100141	B063	Unassigned	Unassigned	00805	1	small finds
	Material	cu alloy (copper)		Function	straight pin, wrapped head	

BarrierSolventPercent

0

Condition

A005 cu o2 ca co3 (malachite)

A010 cu o3 (azurite)

C015 cu o2 (cuprite)

P015 good

U005 cu (copper)

Identification

115 visual

Storage

45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100684	B063	Unassigned	Unassigned	00805	2	small finds
	Material	unidentifiable organics		Function	function unknown	

Comment

131 conserved

Condition

P020 fair

P105 desiccated

Identification

115 visual

055 microscope

Storage

45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100140	B064	Unassigned	Unassigned	00803	1	small finds
	Material	cu alloy (copper)		Function	straight pin, wrapped head	

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)

A010 cu o3 (azurite)
 C015 cu o2 (cuprite)
 P015 good
 U005 cu (copper)

Identification

115 visual

Storage

45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100430	B065	Unassigned	Unassigned	00806	1	small finds
	Material	cu alloy (copper)		Function		straight pin, unidentifiable

Condition

A005 cu o2 ca co3 (malachite)
 A010 cu o3 (azurite)
 C015 cu o2 (cuprite)
 P015 good
 P050 broken
 U005 cu (copper)

Identification

115 visual

Storage

45 polyethylene box
 15 acid free paper

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100800	B067	Unassigned	Unassigned	00810	1	small finds
	Material	cu alloy (copper)		Function		straight pin, unidentifiable

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)
 A010 cu o3 (azurite)
 C015 cu o2 (cuprite)
 U005 cu (copper)

Identification

115 visual

Storage

25 ethafoam
 45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100801	B067	Unassigned	Unassigned	00810	0	unassigned
	Material	-----		Function	-----	

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100366	B071	Unassigned	Unassigned	00813	1	small finds
	Material	cu alloy (copper)		Function	ring	

Comment

131 conserved

Condition

P010 excellent

Identification

115 visual

Storage

45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100142	B071	Unassigned	Unassigned	00813	2	small finds
	Material	cu alloy (copper)		Function	straight pin, wrapped head	

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)

A010 cu o3 (azurite)

C015 cu o2 (cuprite)

P015 good

U005 cu (copper)

Identification

115 visual

Storage

45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100144	B072	Unassigned	Unassigned	00814	1	small finds
	Material	cu alloy (copper)		Function	straight pin, unidentifiable	

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)

A010 cu o3 (azurite)

C015 cu o2 (cuprite)

P015 good

U005 cu (copper)

Identification

115 visual

Storage

45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100882	B072	Unassigned	Unassigned	00814	2	small finds
	Material	cu alloy (copper)		Function	straight pin, wrapped head	

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)

A010 cu o3 (azurite)

C015 cu o2 (cuprite)

P050 broken

U005 cu (copper)

Identification

115 visual

Storage

25 ethafoam

45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100145	B073	Unassigned	Unassigned	00815	1	small finds
	Material	cu alloy (copper)		Function	straight pin, wrapped head	

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)

A010 cu o3 (azurite)

C015 cu o2 (cuprite)

P015 good

U005 cu (copper)

Identification

115 visual

Storage

45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100146	B075	Unassigned	Unassigned	00817	1	small finds
	Material	cu alloy (copper)		Function	straight pin, wrapped head	

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)

A010 cu o3 (azurite)

C015 cu o2 (cuprite)

P015 good

U005 cu (copper)

Identification

115 visual

Storage

45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100802	B075	Unassigned	Unassigned	00817	2	small finds
	Material	cu alloy (copper)		Function	straight pin, unidentifiable	

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)

A010 cu o3 (azurite)

C015 cu o2 (cuprite)

U005 cu (copper)

Identification

115 visual

Storage

25 ethafoam

45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100148	B079	Unassigned	Unassigned	00822	1	small finds
	Material	cu alloy (copper)		Function	straight pin, wrapped head	

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)

A010 cu o3 (azurite)

C015 cu o2 (cuprite)

P015 good

U005 cu (copper)

Identification

115 visual

Storage

45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100149	B082	Unassigned	Unassigned	00825	1	small finds
	Material	cu alloy (copper)		Function	straight pin, unidentifiable	

Condition

A005 cu o2 ca co3 (malachite)

A010 cu o3 (azurite)

C015 cu o2 (cuprite)

P015 good

U005 cu (copper)

Identification

115 visual

Storage

45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100883	B084	Unassigned	Unassigned	00827	1	small finds
	Material	cu alloy (copper)		Function	straight pin, wrapped head	

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)

A010 cu o3 (azurite)

C015 cu o2 (cuprite)

P050 broken

U005 cu (copper)

Identification

115 visual

Storage

25 ethafoam

45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100153	B085	Unassigned	Unassigned	00831	1	small finds
	Material	cu alloy (copper)		Function	straight pin, unidentifiable	

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)

A010 cu o3 (azurite)

C015 cu o2 (cuprite)

P015 good

U005 cu (copper)

Identification

115 visual

Storage

45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100155	B086	Unassigned	Unassigned	00832	1	small finds
	Material	cu alloy (copper)		Function	straight pin, unidentifiable	

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)

A010 cu o3 (azurite)

C015 cu o2 (cuprite)

P015 good

U005 cu (copper)

Identification

115 visual

Storage

45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100915	B086	Unassigned	Unassigned	00832	2	small finds
	Material	unidentifiable organics		Function	function unknown	

Comment

131 conserved

Condition

P015 good

P160 friable

Identification

115 visual

Storage

15 acid free paper

45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100151	B087	Unassigned	Unassigned	00828	1	small finds
	Material	cu alloy (copper)		Function	straight pin, unidentifiable	

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)

A010 cu o3 (azurite)

C015 cu o2 (cuprite)

P015 good

U005 cu (copper)

Identification

115 visual

Storage

45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100803	B087	Unassigned	Unassigned	00828	2	small finds
	Material	cu alloy (copper)		Function	straight pin, wrapped head	

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)

A010 cu o3 (azurite)

C015 cu o2 (cuprite)

P010 excellent

U005 cu (copper)

Identification

115 visual

Storage

25 ethafoam

45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100152	B089	Unassigned	Unassigned	00830	1	small finds
	Material	cu alloy (copper)		Function	straight pin, unidentifiable	

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)

A010 cu o3 (azurite)

C015 cu o2 (cuprite)

P015 good

U005 cu (copper)

Identification

115 visual

Storage

45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100447	B090	Unassigned	Unassigned	00833	1	small finds
	Material	fe (iron)		Function	coffin furniture	

Condition

P015 good

Identification

115 visual

120 x-ray fluorescence

Storage

45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100805	B090	Unassigned	Unassigned	00833	2	small finds
	Material	cu alloy (copper)		Function	straight pin, unidentifiable	

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)

A010 cu o3 (azurite)

C015 cu o2 (cuprite)

P015 good

U005 cu (copper)

Identification

115 visual

Storage

25 ethafoam

45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100804	B090	Unassigned	Unassigned	00833	3	small finds
	Material	cu alloy (copper)		Function	straight pin, unidentifiable	

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)

A010 cu o3 (azurite)

C015 cu o2 (cuprite)

P050 broken

U005 cu (copper)

Identification

115 visual

Storage

25 ethafoam

45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100156	B091	Unassigned	Unassigned	00834	1	small finds
	Material	cu alloy (copper)		Function	straight pin, unidentifiable	

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)
 A010 cu o3 (azurite)
 C015 cu o2 (cuprite)
 P015 good
 U005 cu (copper)

Identification

115 visual

Storage

45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100806	B091	Unassigned	Unassigned	00834	2	small finds
	Material	cu alloy (copper)		Function	straight pin, unidentifiable	

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)
 A010 cu o3 (azurite)
 C015 cu o2 (cuprite)
 U005 cu (copper)

Identification

115 visual

Storage

25 ethafoam

45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100807	B091	Unassigned	Unassigned	00834	3	small finds
	Material	cu alloy (copper)		Function	straight pin, unidentifiable	

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)
 A010 cu o3 (azurite)
 C015 cu o2 (cuprite)
 U005 cu (copper)

Identification

115 visual

Storage

25 ethafoam

45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100808	B091	Unassigned	Unassigned	00834	4	small finds
	Material	cu alloy (copper)		Function	straight pin, unidentifiable	

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)

A010 cu o3 (azurite)

C015 cu o2 (cuprite)

U005 cu (copper)

Identification

115 visual

Storage

25 ethafoam

45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100157	B094	Unassigned	Unassigned	00837	1	small finds
	Material	cu alloy (copper)		Function	straight pin, wrapped head	

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)

A010 cu o3 (azurite)

C015 cu o2 (cuprite)

P015 good

U005 cu (copper)

Identification

115 visual

Storage

45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100463	B095	Unassigned	Unassigned	00838	1	small finds
	Material	cu alloy (copper)		Function	straight pin, unidentifiable	

Identification

115 visual

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100448	B101	Unassigned	Unassigned	00843	1	small finds
	Material	fe (iron)		Function	screw	

Condition

P015 good

Identification

115 visual

120 x-ray fluorescence

Storage

45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100336	B101	Unassigned	Unassigned	00843	2	small finds
	Material	cu/sn alloy (brass/bronze)		Function	nail, tack or screw	

Condition

A005 cu o2 ca co3 (malachite)

A010 cu o3 (azurite)

C015 cu o2 (cuprite)

P015 good

P050 broken

U005 cu (copper)

Identification

115 visual

Storage

15 acid free paper

45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100161	B101	Unassigned	Unassigned	00843	3	small finds
	Material	cu alloy (copper)		Function	straight pin, unidentifiable	

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)

A010 cu o3 (azurite)

C015 cu o2 (cuprite)

P015 good

U005 cu (copper)

Identification

115 visual

Storage

45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100920	B101	Unassigned	Unassigned	00843	4	small finds
	Material	fe (iron)		Function	tack	

CommentCondition

C005 fe o2 (ferrous)

C010 fe o3 (ferric)

Identification

115 visual

116 x-ray

Storage

15 acid free paper

45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100921	B101	Unassigned	Unassigned	00843	5	small finds
	Material	fe (iron)		Function	nail	

Comment

131 conserved

Condition

C005 fe o2 (ferrous)

C010 fe o3 (ferric)

Identification

115 visual

116 x-ray

Storage

15 acid free paper

45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100922	B101	Unassigned	Unassigned	00843	6	small finds
	Material	fe (iron)		Function	tack	

Condition

P020 fair

P050 broken

C005 fe o2 (ferrous)

C010 fe o3 (ferric)

Identification

115 visual

116 x-ray

Storage

15 acid free paper

45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100158	B102	Unassigned	Unassigned	00844	1	small finds
	Material	cu alloy (copper)		Function	straight pin, wrapped head	

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)

A010 cu o3 (azurite)

C015 cu o2 (cuprite)

P015 good

U005 cu (copper)

Identification

115 visual

Storage

45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100298	B104	Unassigned	Unassigned	00847	1	small finds
	Material	cu alloy (copper)		Function	straight pin, wrapped head	

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)

A010 cu o3 (azurite)

C015 cu o2 (cuprite)

P015 good

P050 broken

U005 cu (copper)

Identification

115 visual

Storage

40 polyethylene bag

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100464	B104	Unassigned	Unassigned	00847	2	small finds
	Material	cu alloy (copper)		Function		straight pin, unidentifiable

Identification

115 visual

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100159	B107	Unassigned	Unassigned	00850	1	small finds
	Material	cu alloy (copper)		Function		straight pin, wrapped head

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)

A010 cu o3 (azurite)

C015 cu o2 (cuprite)

P015 good

U005 cu (copper)

Identification

115 visual

Storage

45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100367	B107	Unassigned	Unassigned	00850	2	small finds
	Material	glass		Function		bead

Comment

131 conserved

134 brought to attention of material specialist

Condition

P010 excellent

Identification

115 visual

Storage

45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100160	B108	Unassigned	Unassigned	00851	1	small finds
	Material	cu alloy (copper)		Function		straight pin, wrapped head

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)

A010 cu o3 (azurite)

C015 cu o2 (cuprite)

P015 good

U005 cu (copper)

Identification

115 visual

Storage

45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100162	B109	Unassigned	Unassigned	00852	1	small finds
	Material	cu alloy (copper)		Function	straight pin, unidentifiable	

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)

A010 cu o3 (azurite)

C015 cu o2 (cuprite)

P015 good

U005 cu (copper)

Identification

115 visual

Storage

45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100685	B109	Unassigned	Unassigned	00852	2	small finds
	Material	linen & hair		Function	textile	

Comment

131 conserved

Condition

P020 fair

P105 desiccated

Identification

115 visual

055 microscope

072 polarizing light microscope

Storage

45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100465	B111	Unassigned	Unassigned	00854	1	small finds
	Material	cu alloy (copper)		Function	straight pin, unidentifiable	

Identification

115 visual

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100163	B113	Unassigned	Unassigned	00856	1	small finds
	Material	wood		Function	handle, miscellaneous	

Comment

131 conserved

Condition

P015 good

P080 cracking

Identification

115 visual

Storage

45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100164	B115	Unassigned	Unassigned	00858	1	small finds
	Material	cu alloy (copper)		Function	ring	

Adhesive

P005 50% b-72 (hmg)

SolventPercent

0

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)

A010 cu o3 (azurite)

C015 cu o2 (cuprite)

P015 good

U005 cu (copper)

Identification

115 visual

Storage

45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100303	B117	Z	Unassigned	00862	1	small finds
	Material	fe (iron)		Function	nail	

CommentCondition

C005 fe o2 (ferrous)

P015 good

P050 broken

P110 dirty

Identification

115 visual

Storage

40 polyethylene bag

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100166	B119	Unassigned	Unassigned	00864	1	small finds
	Material	cu alloy (copper)		Function	straight pin, wrapped head	

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)

A010 cu o3 (azurite)

C015 cu o2 (cuprite)

P015 good

U005 cu (copper)

Identification

115 visual

Storage

45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100912	B119	Unassigned	Unassigned	00864	2	small finds
	Material	cu alloy (copper)		Function	straight pin, unidentifiable	

Comment

131 conserved

Condition

P015 good

P050 broken

A005 cu o2 ca co3 (malachite)

A010 cu o3 (azurite)

U005 cu (copper)

Identification

115 visual

Storage

25 ethafoam

45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100165	B121	Unassigned	Unassigned	00866	1	small finds
	Material	cu alloy (copper)		Function	straight pin, unidentifiable	

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)

A010 cu o3 (azurite)

C015 cu o2 (cuprite)

P015 good

U005 cu (copper)

Identification

115 visual

Storage

45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100167	B122	Unassigned	Unassigned	00867	1	small finds
	Material	cu alloy (copper)		Function	straight pin, unidentifiable	

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)

A010 cu o3 (azurite)

C015 cu o2 (cuprite)

P015 good

U005 cu (copper)

Identification

115 visual

Storage

45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100322	B123	Unassigned	Unassigned	00868	1	small finds
	Material	wood & ferrous metal		Function	straight pin, unidentifiable	

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)

A010 cu o3 (azurite)

P015 good

C015 cu o2 (cuprite)

U005 cu (copper)

Consolidant

P010 50% b-72 (hmg)

SolventPercent

0

Identification

115 visual

Storage

45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100911	B126*	Unassigned	Unassigned	00871	1	small finds
	Material	unidentifiable organics		Function	function unknown	

Comment

131 conserved

Condition

P015 good

P105 desiccated

Identification

115 visual

Storage

15 acid free paper

45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100168	B127	Unassigned	Unassigned	00872	1	small finds
	Material	organics & wood & metal		Function	straight pin, wrapped head	

Condition

A005 cu o2 ca co3 (malachite)

A010 cu o3 (azurite)

C015 cu o2 (cuprite)

P015 good

U005 cu (copper)

Identification

115 visual

Storage

45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100169	B130	Unassigned	Unassigned	00875	1	small finds
	Material	cu alloy (copper)		Function	straight pin, wrapped head	

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)

A010 cu o3 (azurite)

C015 cu o2 (cuprite)

P015 good

U005 cu (copper)

Identification

115 visual

Storage

45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100466	B131	Unassigned	Unassigned	00876	1	small finds
	Material	cu alloy (copper)		Function	straight pin, unidentifiable	

Identification

115 visual

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100170	B133	Unassigned	Unassigned	00878	1	small finds
	Material	cu alloy (copper)		Function	straight pin, wrapped head	

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)

A010 cu o3 (azurite)

C015 cu o2 (cuprite)

P015 good

U005 cu (copper)

Identification

115 visual

Storage

45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100913	B133	Unassigned	Unassigned	00878	2	small finds
	Material	unidentifiable organics		Function	function unknown	

Comment

131 conserved

Condition

P015 good

P095 crumbling

Identification

115 visual

Storage

25 ethafoam

45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100368	B135	Unassigned	Unassigned	00880	1	small finds
	Material	cu alloy (copper)		Function	coin, misc.	

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)

A010 cu o3 (azurite)

C015 cu o2 (cuprite)

P015 good

U005 cu (copper)

Identification

115 visual

Storage

45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100171	B135	Unassigned	Unassigned	00880	2	small finds
	Material	wood & fiber		Function	textile	

Comment

131 conserved

Condition

P015 good

P045 brittle

P155 fragmented

Identification

115 visual

Method

015 brushed

SolventPercent

0

Storage

45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100172	B136	Unassigned	Unassigned	00881	1	small finds
	Material	metal & wood		Function	straight pin, unidentifiable	

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)

A010 cu o3 (azurite)

C015 cu o2 (cuprite)

P015 good

U005 cu (copper)

Identification

115 visual

Storage

45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100688	B136	Unassigned	Unassigned	00881	2	small finds
	Material	linen		Function	textile	

Comment

131 conserved

Condition

P020 fair

P160 friable

Identification

115 visual

055 microscope

072 polarizing light microscope

Storage

45 polyethylene box

25 ethafoam

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100431	B138	Unassigned	Unassigned	00883	1	small finds
	Material	fe (iron)		Function	tack	

Condition

P015 good

P050 broken

P110 dirty

Identification

115 visual

Storage

40 polyethylene bag

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100173	B142	Unassigned	Unassigned	00887	1	small finds
	Material	organics & hair		Function	function unknown	

AdhesiveSolventPercent

0

Comment

131 conserved

Condition

P015 good

P155 fragmented

Identification

115 visual

Storage

45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100174	B146	Unassigned	Unassigned	00891	1	small finds
	Material	cu alloy (copper)		Function	straight pin, wrapped head	

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)
 A010 cu o3 (azurite)
 C015 cu o2 (cuprite)
 P015 good
 U005 cu (copper)

Identification

115 visual

Storage

45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100369	B147	Unassigned	Unassigned	00892	1	small finds
	Material	cu alloy (copper)		Function	straight pin, unidentifiable	

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)
 A010 cu o3 (azurite)
 C015 cu o2 (cuprite)
 P015 good
 U005 cu (copper)

Identification

115 visual

Storage

45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100370	B147	Unassigned	Unassigned	00892	2	small finds
	Material	cu alloy (copper)		Function	ring	

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)
 A010 cu o3 (azurite)
 C015 cu o2 (cuprite)
 P015 good
 P050 broken
 A005 cu o2 ca co3 (malachite)
 U005 cu (copper)

Identification

115 visual

Storage

45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100175	B148	Unassigned	Unassigned	00893	1	small finds
	Material	cu alloy (copper)		Function	straight pin, wrapped head	

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)
 A010 cu o3 (azurite)
 C015 cu o2 (cuprite)
 P015 good
 U005 cu (copper)

Identification

115 visual

Storage

45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100467	B151	Unassigned	Unassigned	00896	1	small finds
	Material	unidentifiable		Function	textile	

Comment

131 conserved

Condition

P015 good
 P160 friable

Identification

115 visual

Storage

40 polyethylene bag

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100176	B151	Unassigned	Unassigned	00896	2	small finds
	Material	cu alloy (copper)		Function	straight pin, wrapped head	

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)
 A010 cu o3 (azurite)
 C015 cu o2 (cuprite)
 P015 good
 U005 cu (copper)

Identification

115 visual

Storage

45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100299	B153	Unassigned	Unassigned	00898	1	small finds
	Material	cu alloy (copper)		Function	straight pin, wrapped head	

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)
 A010 cu o3 (azurite)
 C015 cu o2 (cuprite)

P015 good

U005 cu (copper)

Identification

115 visual

Storage

40 polyethylene bag

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100177	B154	Unassigned	Unassigned	00899	1	small finds
	Material	cu alloy (copper)		Function		straight pin, wrapped head

Condition

A005 cu o2 ca co3 (malachite)

A010 cu o3 (azurite)

C015 cu o2 (cuprite)

P015 good

U005 cu (copper)

Identification

115 visual

Storage

45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100812	B154	Unassigned	Unassigned	00899	2	small finds
	Material	cu alloy (copper)		Function		straight pin, unidentifiable

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)

A010 cu o3 (azurite)

C015 cu o2 (cuprite)

P050 broken

U005 cu (copper)

Identification

115 visual

Storage

25 ethafoam

45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100886	B154	Unassigned	Unassigned	00899	3	small finds
	Material	cu alloy (copper)		Function		straight pin, unidentifiable

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)

A010 cu o3 (azurite)

C015 cu o2 (cuprite)

P050 broken

U005 cu (copper)

Identification

115 visual

Storage

25 ethafoam

45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100179	B158	Unassigned	Unassigned	00903	1	small finds
	Material	cu alloy (copper)		Function	cuff links	

AdhesiveSolventPercent

0

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)

A010 cu o3 (azurite)

C015 cu o2 (cuprite)

P015 good

U005 cu (copper)

Identification

115 visual

Storage

45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100180	B158	Unassigned	Unassigned	00903	2	small finds
	Material	unidentifiable organics		Function	function unknown	

Comment

131 conserved

Condition

P045 brittle

P095 crumbling

Identification

115 visual

Method

015 brushed

Storage

45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100178	B158	Unassigned	Unassigned	00903	3	small finds
	Material	cu alloy (copper)		Function	function unknown	

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)

A010 cu o3 (azurite)

C015 cu o2 (cuprite)

P015 good

Percent

0

U005 cu (copper)

Identification

115 visual

Storage

45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100689	B158	Unassigned	Unassigned	00903	4	small finds
	Material	cu alloy (copper)		Function	cuff links	

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)

A010 cu o3 (azurite)

C015 cu o2 (cuprite)

P015 good

U005 cu (copper)

Identification

115 visual

Storage

25 ethafoam

45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100181	B160	Unassigned	Unassigned	00906	1	small finds
	Material	cu alloy (copper)		Function	straight pin, unidentifiable	

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)

A010 cu o3 (azurite)

C015 cu o2 (cuprite)

P015 good

U005 cu (copper)

Identification

115 visual

Storage

45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100207	B161	Unassigned	Unassigned	00908	1	small finds
	Material	fe (iron)		Function	hardware, misc.	

Comment

131 conserved

Condition

P015 good

U015 fe (ferric)

A010 cu o3 (azurite)

Identification

115 visual

Storage

45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100182	B166	Unassigned	Unassigned	00920	1	small finds
	Material	cu alloy (copper)		Function	straight pin, wrapped head	

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)

A010 cu o3 (azurite)

C015 cu o2 (cuprite)

P015 good

U005 cu (copper)

Identification

115 visual

Storage

45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100813	B166	Unassigned	Unassigned	00920	2	small finds
	Material	cu alloy (copper)		Function	straight pin, unidentifiable	

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)

A010 cu o3 (azurite)

C015 cu o2 (cuprite)

P050 broken

U005 cu (copper)

Identification

115 visual

Storage

25 ethafoam

45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100814	B166	Unassigned	Unassigned	00920	3	small finds
	Material	cu alloy (copper)		Function	straight pin, unidentifiable	

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)

A010 cu o3 (azurite)

C015 cu o2 (cuprite)

P050 broken

U005 cu (copper)

Identification

115 visual

Storage

25 ethafoam

45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100815	B166	Unassigned	Unassigned	00920	4	small finds
	Material	cu alloy (copper)		Function	straight pin, unidentifiable	

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)

A010 cu o3 (azurite)

C015 cu o2 (cuprite)

P050 broken

U005 cu (copper)

Identification

115 visual

Storage

25 ethafoam

45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100318	B167	Unassigned	Unassigned	00923	1	small finds
	Material	cu alloy (copper)		Function	straight pin, unidentifiable	

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)

A010 cu o3 (azurite)

C015 cu o2 (cuprite)

P015 good

P110 dirty

P050 broken

U005 cu (copper)

Identification

115 visual

Storage

45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100183	B169	Unassigned	Unassigned	00926	1	small finds
	Material	cotton & human hair		Function	function unknown	

Comment

131 conserved

Condition

P015 good

P155 fragmented

Identification

115 visual

Method

015 brushed

SolventPercent

0

Storage

45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100209	B169	Unassigned	Unassigned	00926	2	small finds
	Material	cu alloy (copper)		Function	straight pin, wrapped head	

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)

A010 cu o3 (azurite)

C015 cu o2 (cuprite)

P015 good

U005 cu (copper)

Identification

115 visual

Storage

45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100210	B171	Unassigned	Unassigned	00931	1	small finds
	Material	bone/faunal		Function	button	

Adhesive

P005 50% b-72 (hmg)

SolventPercent

0

Comment

131 conserved

Condition

P015 good

P040 abraded surface

P050 broken

Identification

115 visual

Storage

45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100211	B171	Unassigned	Unassigned	00931	2	small finds
	Material	cu alloy (copper)		Function	straight pin, wrapped head	

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)

A010 cu o3 (azurite)

C015 cu o2 (cuprite)

P015 good

U005 cu (copper)

Identification

115 visual

Storage

45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100919	B171	Unassigned	Unassigned	00931	3	small finds
	Material	bone/faunal		Function	button	

Comment

131 conserved

Condition

P015 good

P040 abraded surface

Identification

115 visual

Storage

25 ethafoam

45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100212	B173	Unassigned	Unassigned	00936	1	small finds
	Material	pb alloy (lead)		Function	lead shot	

Condition

A015 pb ca co3 (lead)

P015 good

Identification

115 visual

Storage

45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100213	B173	Unassigned	Unassigned	00936	2	small finds
	Material	cu alloy (copper)		Function	straight pin, unidentifiable	

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)

A010 cu o3 (azurite)

C015 cu o2 (cuprite)

P015 good

U005 cu (copper)

Identification

115 visual

Storage

45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100816	B174	Unassigned	Unassigned	00940	1	small finds
	Material	pb/sn/ni alloy pewter		Function	button	

Comment

131 conserved

Condition

P025 poor
 P095 crumbling
 P190 powdered
 U025 sn (tin)

Identification

115 visual

Storage

25 ethafoam
 45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100817	B174	Unassigned	Unassigned	00940	2	small finds
	Material	wood & pewter		Function	button	

Comment

131 conserved

Condition

C025 sn o2 (tin)
 P095 crumbling
 U025 sn (tin)
 A025 tin pest

Identification

115 visual

Storage

25 ethafoam
 45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100214	B175	Unassigned	Unassigned	00941	1	small finds
	Material	cu alloy (copper)		Function	straight pin, unidentifiable	

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)
 A010 cu o3 (azurite)
 C015 cu o2 (cuprite)
 P015 good
 U005 cu (copper)

Identification

115 visual

Storage

45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100521	B176	Unassigned	Unassigned	00942	1	small finds
	Material	fe (iron)		Function	tack	

Comment

131 conserved

Condition

P015 good

Identification

115 visual

Storage

15 acid free paper

45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100435	B176	Unassigned	Unassigned	00942	2	small finds
	Material	fe (iron)		Function	coffin handle	

Comment

131 conserved

Condition

P015 good

P050 broken

Identification

115 visual

Storage

15 acid free paper

45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100434	B176	Unassigned	Unassigned	00942	3	small finds
	Material	fe (iron)		Function	coffin handle	

Comment

131 conserved

Condition

P015 good

Identification

115 visual

Storage

15 acid free paper

45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100432	B176	Unassigned	Unassigned	00942	4	small finds
	Material	fe (iron)		Function	coffin hardware	

Condition

P015 good

P050 broken

P110 dirty

Storage

15 acid free paper

45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100433	B176	Unassigned	Unassigned	00942	5	small finds
	Material	fe (iron)		Function	nail	

Comment

131 conserved

Condition

P015 good
P050 broken

Identification

115 visual

Storage

45 polyethylene box
15 acid free paper

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100186	B176	Unassigned	Unassigned	00942	6	small finds
	Material	wood & ferrous metal		Function	screw	

Comment

131 conserved

Condition

P015 good
P050 broken
U015 fe (ferric)

Identification

115 visual

Storage

45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100925	B176	Unassigned	Unassigned	00942	7	small finds
	Material	fe (iron)		Function	coffin handle	

CommentCondition

C005 fe o2 (ferrous)
C010 fe o3 (ferric)

Identification

115 visual
116 x-ray

Storage

15 acid free paper
40 polyethylene bag

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100187	B179	Unassigned	Unassigned	00949	1	small finds
	Material	cu alloy (copper)		Function	straight pin, wrapped head	

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)
A010 cu o3 (azurite)
C015 cu o2 (cuprite)
P015 good
U005 cu (copper)

Identification

115 visual

Storage

45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100188	B180	Unassigned	Unassigned	00960	1	small finds
	Material	cu alloy (copper)		Function	straight pin, unidentifiable	

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)

A010 cu o3 (azurite)

C015 cu o2 (cuprite)

P015 good

U005 cu (copper)

Identification

115 visual

Storage

45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100193	B181	Unassigned	Unassigned	00967	1	small finds
	Material	white metal		Function	button	

Adhesive

P005 50% b-72 (hmg)

SolventPercent

0

Comment

131 conserved

Condition

P015 good

C015 cu o2 (cuprite)

A005 cu o2 ca co3 (malachite)

A010 cu o3 (azurite)

U005 cu (copper)

C030 zn o2 (zinc)

Identification

115 visual

Storage

45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100189	B181	Unassigned	Unassigned	00967	2	small finds
	Material	cu alloy (copper)		Function	cuff links	

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)

A010 cu o3 (azurite)

C015 cu o2 (cuprite)

P020 fair

U005 cu (copper)

ConsolidantSolventPercent

P005 b-72

0

Identification

115 visual

Storage

45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100190	B181	Unassigned	Unassigned	00967	3	small finds
	Material	bone & brass		Function	button back	

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)

A010 cu o3 (azurite)

C015 cu o2 (cuprite)

P015 good

U005 cu (copper)

ConsolidantSolventPercent

P005 b-72

0

C005 micro-crystalline wax - hot wax

0

Identification

115 visual

Storage

45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100192	B181	Unassigned	Unassigned	00967	4	small finds
	Material	unidentifiable		Function	textile	

Comment

245 see written comments

Condition

P160 friable

P020 fair

Identification

115 visual

Storage

45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100194	B181	Unassigned	Unassigned	00967	5	small finds
	Material	copper alloy & bone		Function	button	

AdhesiveSolventPercent

P005 50% b-72 (hmg)

0

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)

A010 cu o3 (azurite)

C015 cu o2 (cuprite)

P015 good

U005 cu (copper)

ConsolidantSolventPercent

P005 b-72

0

Identification

115 visual

Storage

45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100372	B181	Unassigned	Unassigned	00967	6	small finds
	Material	copper alloy & bone		Function	button back	

Comment

131 conserved

Condition

P010 excellent

Identification

115 visual

Storage

45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100451	B181	Unassigned	Unassigned	00967	7	small finds
	Material	cu alloy (copper)		Function	button shank	

Comment

131 conserved

Condition

P015 good

A005 cu o2 ca co3 (malachite)

A010 cu o3 (azurite)

C015 cu o2 (cuprite)

U005 cu (copper)

Identification

115 visual

Storage

15 acid free paper

45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100690	B181	Unassigned	Unassigned	00967	8	small finds
	Material	cu alloy (copper)		Function	button	

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)

A010 cu o3 (azurite)

C015 cu o2 (cuprite)

P015 good
U005 cu (copper)

Identification

115 visual

Storage

25 ethafoam
45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100691	B181	Unassigned	Unassigned	00967	9	small finds
	Material	cu alloy (copper)		Function	button	

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)
A010 cu o3 (azurite)
C015 cu o2 (cuprite)
P015 good
U005 cu (copper)

Identification

115 visual

Storage

25 ethafoam
45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100195	B183	Unassigned	Unassigned	00971	1	small finds
	Material	cu alloy (copper)		Function	straight pin, unidentifiable	

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)
A010 cu o3 (azurite)
C015 cu o2 (cuprite)
P015 good
U005 cu (copper)

Identification

115 visual

Storage

45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100421	B183	Unassigned	Unassigned	00971	2	small finds
	Material	cu alloy (copper)		Function	straight pin, wrapped head	

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)
A010 cu o3 (azurite)

C015 cu o2 (cuprite)

P015 good

P050 broken

U005 cu (copper)

Identification

115 visual

Storage

45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100418	B183	Unassigned	Unassigned	00971	3	small finds
	Material	wood		Function	function unknown	

Comment

131 conserved

Condition

P015 good

P155 fragmented

Storage

15 acid free paper

45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100819	B183	Unassigned	Unassigned	00971	4	small finds
	Material	wood & copper alloy		Function	straight pin, wrapped head	

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)

A010 cu o3 (azurite)

C015 cu o2 (cuprite)

U005 cu (copper)

P050 broken

Identification

115 visual

Storage

25 ethafoam

45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100926	B185	Unassigned	Unassigned	00982	1	small finds
	Material	fe (iron)		Function	spike	

Condition

C005 fe o2 (ferrous)

C010 fe o3 (ferric)

Identification

115 visual

116 x-ray

Storage

15 acid free paper

45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100885	B186	Unassigned	Unassigned	00987	1	small finds
	Material	cu alloy (copper)		Function		straight pin, wrapped head

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)

A010 cu o3 (azurite)

C015 cu o2 (cuprite)

P050 broken

U005 cu (copper)

Identification

115 visual

Storage

25 ethafoam

45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100422	B186	Unassigned	Unassigned	00987	1	small finds
	Material	metal & non-metal		Function		function unknown

Comment

131 conserved

Condition

C015 cu o2 (cuprite)

P110 dirty

P020 fair

P155 fragmented

U005 cu (copper)

Identification

115 visual

Storage

45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100423	B186	Unassigned	Unassigned	00987	2	small finds
	Material	cu alloy (copper)		Function		straight pin, wrapped head

Comment

131 conserved

Condition

P015 good

A005 cu o2 ca co3 (malachite)

A010 cu o3 (azurite)

C015 cu o2 (cuprite)

U005 cu (copper)

P050 broken

Identification

115 visual

Storage

45 polyethylene box

15 acid free paper

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100417	B187	Unassigned	Unassigned	00988	1	small finds
	Material	glass		Function	bead	

Comment

131 conserved

134 brought to attention of material specialist

Condition

P015 good

P185 pitted

Identification

115 visual

Storage

45 polyethylene box

40 polyethylene bag

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100884	B187	Unassigned	Unassigned	00988	2	small finds
	Material	cu alloy (copper)		Function	straight pin, wrapped head	

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)

A010 cu o3 (azurite)

C015 cu o2 (cuprite)

P050 broken

U005 cu (copper)

Identification

115 visual

Storage

25 ethafoam

45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100820	B189	Unassigned	Unassigned	01015	1	small finds
	Material	cu alloy (copper)		Function	straight pin, unidentifiable	

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)

A010 cu o3 (azurite)

C015 cu o2 (cuprite)

U005 cu (copper)

P110 dirty

Identification

115 visual

Storage

25 ethafoam

45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100196	B190	Unassigned	Unassigned	01017	1	small finds
	Material	cu alloy (copper)		Function		straight pin, unidentifiable

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)

A010 cu o3 (azurite)

C015 cu o2 (cuprite)

P015 good

U005 cu (copper)

Identification

115 visual

Storage

45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100821	B190	Unassigned	Unassigned	01017	2	small finds
	Material	cu alloy (copper)		Function		straight pin, unidentifiable

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)

A010 cu o3 (azurite)

C015 cu o2 (cuprite)

U005 cu (copper)

Identification

115 visual

Storage

25 ethafoam

45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100453	B191	Unassigned	Unassigned	01081	1	small finds
	Material	pb alloy (lead)		Function		lead shot

BarrierSolventPercent

0

Comment

131 conserved

Condition

P015 good

P040 abraded surface

Identification

115 visual

Storage

15 acid free paper

45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100338	B191	Unassigned	Unassigned	01081	2	small finds
	Material	cu alloy (copper)		Function	button	

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)

A010 cu o3 (azurite)

C015 cu o2 (cuprite)

P015 good

A005 cu o2 ca co3 (malachite)

P050 broken

U005 cu (copper)

Identification

115 visual

Storage

15 acid free paper

45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100197	B191	Unassigned	Unassigned	01081	3	small finds
	Material	cu alloy (copper)		Function	straight pin, wrapped head	

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)

A010 cu o3 (azurite)

C015 cu o2 (cuprite)

P015 good

U005 cu (copper)

Identification

115 visual

Storage

45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100566	B194	Unassigned	Unassigned	01109	1	small finds
	Material	cu alloy (copper)		Function	button shank	

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)

A010 cu o3 (azurite)

C015 cu o2 (cuprite)

P015 good

U005 cu (copper)

Identification

115 visual

Storage

25 ethafoam

45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100567	B194	Unassigned	Unassigned	01109	2	small finds
	Material	unidentifiable organics		Function	function unknown	

Comment

131 conserved

Condition

P020 fair

Identification

115 visual

Storage

25 ethafoam

45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100424	B196	Unassigned	Unassigned	01150	1	small finds
	Material	fe (iron)		Function	function unknown	

CommentCondition

P015 good

Identification

115 visual

Method

010 air abrasive

SolventPercent

0

Storage

45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100198	B196	Unassigned	Unassigned	01150	2	small finds
	Material	cu alloy (copper)		Function	straight pin, wrapped head	

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)

A010 cu o3 (azurite)

C015 cu o2 (cuprite)

P015 good

U005 cu (copper)

Identification

115 visual

Storage

45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100351	B197	Unassigned	Unassigned	01152	1	small finds
	Material	fe (iron)		Function	tack	

Comment

131 conserved

Condition

P050 broken

P110 dirty

C005 fe o2 (ferrous)

Identification

115 visual

Method

010 air abrasive

SolventPercent

0

Storage

15 acid free paper

45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100373	B199	Unassigned	Unassigned	01160	1	small finds
	Material	cu alloy (copper)		Function	straight pin, wrapped head	

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)

A010 cu o3 (azurite)

C015 cu o2 (cuprite)

P015 good

U005 cu (copper)

Identification

115 visual

Storage

45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100199	B201	Unassigned	Unassigned	01168	1	small finds
	Material	cu alloy (copper)		Function	straight pin, unidentifiable	

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)

A010 cu o3 (azurite)

C015 cu o2 (cuprite)

P015 good

U005 cu (copper)

Identification

115 visual

Storage

45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100823	B201	Unassigned	Unassigned	01168	2	small finds
	Material	cu alloy (copper)		Function	straight pin, unidentifiable	

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)

A010 cu o3 (azurite)

C015 cu o2 (cuprite)

U005 cu (copper)

Identification

115 visual

Storage

25 ethafoam

45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100479	B203	Unassigned	Unassigned	01174	1	small finds
	Material	copper alloy & leather		Function	button	

Comment

131 conserved

Condition

P015 good

P045 brittle

Consolidant

C010 british leather dressing

SolventPercent

0

Identification

115 visual

Storage

45 polyethylene box

25 ethafoam

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100374	B203	Unassigned	Unassigned	01174	2	small finds
	Material	organics & wood & metal		Function	button	

Comment

131 conserved

Condition

P020 fair

P050 broken

P095 crumbling

Identification

115 visual

Storage

15 acid free paper

40 polyethylene bag

45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100616	B203	Unassigned	Unassigned	01174	3	small finds
	Material	wood		Function	function unknown	

Comment

113 been encrusted with mortar

Condition

P020 fair

Identification

115 visual

Storage

45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100481	B203	Unassigned	Unassigned	01174	4	small finds
	Material	bone/faunal		Function	function unknown	

Comment

131 conserved

Condition

P015 good

Identification

115 visual

Storage

15 acid free paper

45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100200	B205	Unassigned	Unassigned	01178	1	small finds
	Material	cu alloy (copper)		Function	straight pin, wrapped head	

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)

A010 cu o3 (azurite)

C015 cu o2 (cuprite)

P015 good

U005 cu (copper)

Identification

115 visual

Storage

45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100441	B210	Unassigned	Unassigned	01185	1	small finds
	Material	cu alloy (copper)		Function	function unknown	

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)

A010 cu o3 (azurite)

C015 cu o2 (cuprite)

P015 good

Identification

115 visual

Storage

45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100522	B210	Unassigned	Unassigned	01185	2	small finds
	Material	glass		Function	bead	

Comment

131 conserved

134 brought to attention of material specialist

Condition

P015 good

Identification

115 visual

Storage

25 ethafoam

45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100329	B210	Unassigned	Unassigned	01185	3	small finds
	Material	fe (iron)		Function	coffin handle	

Condition

P015 good

P050 broken

C005 fe o2 (ferrous)

Identification

115 visual

Method

010 air abrasive

Solvent

Percent

0

Storage

15 acid free paper

45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100442	B210	Unassigned	Unassigned	01185	4	small finds
	Material	cu alloy (copper)		Function	straight pin, unidentifiable	

Condition

A005 cu o2 ca co3 (malachite)

A010 cu o3 (azurite)

C015 cu o2 (cuprite)

P015 good

P050 broken

Identification

115 visual

Storage

45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100444	B210	Unassigned	Unassigned	01185	5	small finds
	Material	pb (lead)		Function	lead shot	

Comment

131 conserved

Condition

P015 good

P040 abraded surface

Identification

115 visual

Storage

15 acid free paper

45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100375	B211	Unassigned	Unassigned	01186	1	small finds
	Material	enamel		Function	cuff links	

Comment

131 conserved

Condition

P010 excellent

Identification

115 visual

Storage

45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100877	B213	Unassigned	Unassigned	01190	1	small finds
	Material	copper alloy & hair		Function	straight pin, unidentifiable	

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)

A010 cu o3 (azurite)

C015 cu o2 (cuprite)

P050 broken

U005 cu (copper)

Identification

115 visual

Storage

25 ethafoam

45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100319	B214	Z	Unassigned	01191	1	small finds
	Material	organics & wood & metal		Function	function unknown	

Condition

P020 fair

P155 fragmented

U010 pb (lead)

Identification

115 visual

Storage

45 polyethylene box

15 acid free paper

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100330	B214	Z	Unassigned	01191	2	small finds
	Material	cu alloy (copper)		Function	button back	

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)

A010 cu o3 (azurite)

C015 cu o2 (cuprite)

P015 good

U005 cu (copper)

Identification

115 visual

Method

015 brushed

SolventPercent

0

Storage

45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100343	B214	Z	Unassigned	01191	3	small finds
	Material	cu alloy (copper)		Function	coin, unidentifiable	

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)

A010 cu o3 (azurite)

C015 cu o2 (cuprite)

P015 good

U005 cu (copper)

Identification

115 visual

Method

010 air abrasive

SolventPercent

0

Storage

15 acid free paper

45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100332	B214	Z	Unassigned	01191	4	small finds
	Material	cu alloy (copper)		Function	button shank	

Condition

A005 cu o2 ca co3 (malachite)

A010 cu o3 (azurite)

C015 cu o2 (cuprite)

P015 good

U005 cu (copper)

Identification

115 visual

Storage

45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100333	B214	Z	Unassigned	01191	5	small finds
	Material	seeds		Function	function unknown	

Condition

P020 fair

P045 brittle

P050 broken

P095 crumbling

Identification

115 visual

Storage

15 acid free paper

45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100201	B215	Unassigned	Unassigned	01193	1	small finds
	Material	cu alloy (copper)		Function	straight pin, wrapped head	

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)

A010 cu o3 (azurite)

C015 cu o2 (cuprite)

P015 good

U005 cu (copper)

Identification

115 visual

Storage

45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100468	B216	Unassigned	Unassigned	01194	1	small finds
	Material	cu alloy (copper)		Function	straight pin, wrapped head	

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)

A010 cu o3 (azurite)

P015 good

C015 cu o2 (cuprite)

U005 cu (copper)

Identification

115 visual

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100469	B219	Unassigned	Unassigned	01200	1	small finds
	Material	unidentifiable		Function	cloth fragment	

Comment

131 conserved

Condition

P020 fair

P035 light

Identification

115 visual

Storage

45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100470	B219	Unassigned	Unassigned	01200	2	small finds
	Material	cu alloy (copper)		Function	straight pin, wrapped head	

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)

A010 cu o3 (azurite)

C015 cu o2 (cuprite)

P015 good

U005 cu (copper)

Identification

115 visual

Storage

25 ethafoam

45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100215	B222	Unassigned	Unassigned	01207	1	small finds
	Material	fe (iron)		Function	tack	

Condition

P020 fair

P040 abraded surface

P075 corroded

P161 misshapen

U015 fe (ferric)

Identification

115 visual

Method

010 air abrasive

SolventPercent

0

Storage

99 other

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100334	B225	Unassigned	Unassigned	01211	1	small finds
	Material	fe (iron)		Function	screw	

Comment

131 conserved

Condition

P020 fair

P050 broken

P110 dirty

U015 fe (ferric)

Identification

115 visual

Storage

45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100471	B225	Unassigned	Unassigned	01211	2	small finds
	Material	unidentifiable organics		Function	function unknown	

Condition

P045 brittle

P095 crumbling

Identification

115 visual

Storage

25 ethafoam

45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100472	B225	Unassigned	Unassigned	01211	3	small finds
	Material	cu alloy (copper)		Function	straight pin, wrapped head	

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)

A010 cu o3 (azurite)

C015 cu o2 (cuprite)

P015 good

U005 cu (copper)

Identification

115 visual

Storage

25 ethafoam

45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100473	B225	Unassigned	Unassigned	01211	4	small finds
	Material	fe (iron)		Function	nail, square cut	

Comment

131 conserved

Condition

P015 good

Identification

115 visual

Storage

25 ethafoam

45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100419	B226	Unassigned	Unassigned	01212	1	small finds
	Material	glass		Function	bead	

Comment

131 conserved

134 brought to attention of material specialist

Condition

P015 good

Identification

115 visual

Storage

45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100824	B226	Unassigned	Unassigned	01212	2	small finds
	Material	cu alloy (copper)		Function	straight pin, unidentifiable	

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)

A010 cu o3 (azurite)

C015 cu o2 (cuprite)

U005 cu (copper)

Identification

115 visual

Storage

25 ethafoam

45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100202	B229	Unassigned	Unassigned	01215	1	small finds
	Material	cu alloy (copper)		Function	straight pin, unidentifiable	

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)

A010 cu o3 (azurite)

C015 cu o2 (cuprite)

P015 good

U005 cu (copper)

Identification

115 visual

Storage

45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100461	B230	Unassigned	Unassigned	01216	1	small finds
	Material	metal & cloth		Function	coin, unidentifiable	

Comment

131 conserved

Condition

A010 cu o3 (azurite)
 C015 cu o2 (cuprite)
 A005 cu o2 ca co3 (malachite)
 P020 fair
 P050 broken
 P155 fragmented
 U005 cu (copper)

Identification

115 visual

Storage

15 acid free paper

45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100437	B230	Unassigned	Unassigned	01216	2	small finds
	Material	cu alloy (copper)		Function	straight pin, unidentifiable	

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)
 A010 cu o3 (azurite)
 C015 cu o2 (cuprite)
 P015 good
 P050 broken
 U005 cu (copper)

Identification

115 visual

Storage

45 polyethylene box

40 polyethylene bag

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100699	B230	Unassigned	Unassigned	01216	3	small finds
	Material	cu alloy (copper)		Function	coin, unidentifiable	

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)
 A010 cu o3 (azurite)

C015 cu o2 (cuprite)

P015 good

U005 cu (copper)

Identification

115 visual

Storage

25 ethafoam

45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100203	B235	Unassigned	Unassigned	01221	1	small finds
	Material	cu alloy (copper)		Function	straight pin, unidentifiable	

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)

A010 cu o3 (azurite)

C015 cu o2 (cuprite)

P015 good

U005 cu (copper)

Identification

115 visual

Storage

45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100474	B235	Unassigned	Unassigned	01221	2	small finds
	Material	fe (iron)		Function	function unknown	

Identification

115 visual

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100475	B236	Unassigned	Unassigned	01222	1	small finds
	Material	cu alloy (copper)		Function	straight pin, unidentifiable	

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)

A010 cu o3 (azurite)

C015 cu o2 (cuprite)

P015 good

U005 cu (copper)

Identification

115 visual

Storage

45 polyethylene box

25 ethafoam

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100376	B238	Unassigned	Unassigned	01224	1	small finds
	Material	cu alloy (copper)		Function	cuff links	

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)

A010 cu o3 (azurite)

C015 cu o2 (cuprite)

P015 good

U005 cu (copper)

Identification

115 visual

Storage

45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100377	B238	Unassigned	Unassigned	01224	2	small finds
	Material	cu alloy (copper)		Function	cuff links	

Comment

131 conserved

Condition

P010 excellent

C015 cu o2 (cuprite)

U005 cu (copper)

Identification

115 visual

Storage

45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100378	B238	Unassigned	Unassigned	01224	3	small finds
	Material	wood		Function	function unknown	

Comment

131 conserved

Condition

P020 fair

P105 desiccated

Identification

115 visual

Storage

45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100345	B239	Unassigned	Unassigned	01226	1	small finds
	Material	fe (iron)		Function	coffin handle	

Comment

131 conserved

Condition

P050 broken

P015 good

Identification

115 visual

MethodSolventPercent

010 air abrasive

0

0

Storage

15 acid free paper

45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100494	B239	Unassigned	Unassigned	01226	2	small finds
	Material	cu alloy (copper)		Function		straight pin, unidentifiable

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)

A010 cu o3 (azurite)

C015 cu o2 (cuprite)

P015 good

U005 cu (copper)

Identification

115 visual

Storage

25 ethafoam

45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100339	B241	Unassigned	Unassigned	01228	1	small finds
	Material	fe (iron)		Function		function unknown

Comment

131 conserved

Condition

P015 good

P050 broken

Identification

115 visual

MethodSolventPercent

015 brushed

0

Storage

45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100425	B241	Unassigned	Unassigned	01228	2	small finds
	Material	cu alloy (copper)		Function		straight pin, wrapped head

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)

A010 cu o3 (azurite)

C015 cu o2 (cuprite)

P015 good
 P050 broken
 U005 cu (copper)

Identification

115 visual

Storage

45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100379	B242	Unassigned	Unassigned	01229	1	small finds
	Material	cu alloy (copper)		Function	coin, unidentifiable	

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)
 A010 cu o3 (azurite)
 C015 cu o2 (cuprite)
 P010 excellent
 U005 cu (copper)

Identification

115 visual

Storage

45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100523	B242	Unassigned	Unassigned	01229	2	small finds
	Material	cu alloy (copper)		Function	coin, unidentifiable	

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)
 A010 cu o3 (azurite)
 C015 cu o2 (cuprite)
 P015 good
 U005 cu (copper)

Identification

115 visual

Storage

25 ethafoam

45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100380	B242	Unassigned	Unassigned	01229	3	small finds
	Material	copper alloy & glass		Function	ring	

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)
 A010 cu o3 (azurite)

C015 cu o2 (cuprite)
P015 good
U005 cu (copper)

Identification

115 visual

Storage

45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100825	B242	Unassigned	Unassigned	01229	4	small finds
	Material	wood & copper alloy		Function		straight pin, unidentifiable

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)
A010 cu o3 (azurite)
C015 cu o2 (cuprite)
U005 cu (copper)

Identification

115 visual

Storage

25 ethafoam
45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100895	B242	Unassigned	Unassigned	01229	5	small finds
	Material	cu alloy (copper)		Function		straight pin, wrapped head

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)
A010 cu o3 (azurite)
C015 cu o2 (cuprite)
P050 broken
U005 cu (copper)

Identification

115 visual

Storage

25 ethafoam
45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100489	B243	Unassigned	Unassigned	01230	1	small finds
	Material	cu alloy (copper)		Function		button

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)
A010 cu o3 (azurite)

C015 cu o2 (cuprite)

P015 good

U005 cu (copper)

P050 broken

Identification

115 visual

Storage

25 ethafoam

45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100490	B243	Unassigned	Unassigned	01230	2	small finds
	Material	hair		Function	function unknown	

Comment

131 conserved

Condition

P020 fair

P160 friable

P110 dirty

Identification

115 visual

072 polarizing light microscope

055 microscope

Storage

15 acid free paper

45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100826	B244	Unassigned	Unassigned	01231	1	small finds
	Material	cu alloy (copper)		Function	straight pin, unidentifiable	

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)

A010 cu o3 (azurite)

C015 cu o2 (cuprite)

U005 cu (copper)

Identification

115 visual

Storage

25 ethafoam

45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100888	B244	Unassigned	Unassigned	01231	2	small finds
	Material	cu alloy (copper)		Function	straight pin, unidentifiable	

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)

A010 cu o3 (azurite)

C015 cu o2 (cuprite)

P050 broken

U005 cu (copper)

Identification

115 visual

Storage

25 ethafoam

45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100476	B245	Unassigned	Unassigned	01232	1	small finds
	Material	cu alloy (copper)		Function	straight pin, unidentifiable	

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)

A010 cu o3 (azurite)

C015 cu o2 (cuprite)

P015 good

U005 cu (copper)

Identification

115 visual

Storage

25 ethafoam

45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100300	B250	Unassigned	Unassigned	01239	1	small finds
	Material	pb/sn/ni alloy pewter		Function	button	

Condition

A015 pb ca co3 (lead)

C025 sn o2 (tin)

P025 poor

P050 broken

P045 brittle

P095 crumbling

Identification

115 visual

Storage

40 polyethylene bag

99 other

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100486	B250	Unassigned	Unassigned	01239	2	small finds
	Material	cu alloy (copper)		Function	button	

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)
 A010 cu o3 (azurite)
 C015 cu o2 (cuprite)
 P015 good
 U005 cu (copper)

Identification

115 visual

Storage

25 ethafoam
 45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100477	B250	Unassigned	Unassigned	01239	3	small finds
	Material	fe (iron)		Function	function unknown	

Adhesive

P005 50% b-72 (hmg)

SolventPercent

0

Comment

131 conserved

Condition

C010 fe o3 (ferric)
 P015 good
 U015 fe (ferric)

Identification

115 visual

Storage

25 ethafoam
 45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100713	B250	Unassigned	Unassigned	01239	4	small finds
	Material	glass		Function	bead	

Comment

131 conserved

134 brought to attention of material specialist

Condition

P015 good
 C065 devitrified

Identification

115 visual

Storage

25 ethafoam
 45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100493	B252	Unassigned	Unassigned	01241	1	small finds
	Material	cu alloy (copper)		Function	straight pin, wrapped head	

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)
 A010 cu o3 (azurite)
 C015 cu o2 (cuprite)
 P015 good
 U005 cu (copper)

Identification

115 visual

Storage

15 acid free paper
 45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100927	B252	Unassigned	Unassigned	01241	2	small finds
	Material	fe (iron)		Function	function unknown	

Condition

C005 fe o2 (ferrous)
 C015 cu o2 (cuprite)

Identification

115 visual
 116 x-ray

Storage

15 acid free paper
 45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100928	B252	Unassigned	Unassigned	01241	3	small finds
	Material	fe (iron)		Function	function unknown	

Condition

C005 fe o2 (ferrous)
 C010 fe o3 (ferric)

Identification

115 visual
 116 x-ray

Storage

15 acid free paper
 45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100929	B252	Unassigned	Unassigned	01241	0	unassigned
	Material	----		Function	----	

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100204	B253	Unassigned	Unassigned	01242	1	small finds
	Material	cu alloy (copper)		Function	straight pin, unidentifiable	

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)

A010 cu o3 (azurite)

C015 cu o2 (cuprite)

P015 good

U005 cu (copper)

Identification

115 visual

Storage

45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100381	B254	Unassigned	Unassigned	01243	1	small finds
	Material	ag alloy (silver)		Function	earings	

Barrier

P005 5% b-72

Solvent

50 xylene

Percent

0

Comment

131 conserved

Condition

P015 good

Identification

115 visual

090 sem) scanning electron microscopy

Method

130 vacuum impregnated

SolventPercent

0

Storage

45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100827	B254	Unassigned	Unassigned	01243	2	small finds
	Material	ag alloy (silver)		Function	function unknown	

Comment

131 conserved

Condition

P025 poor

P190 powdered

Identification

115 visual

Storage

25 ethafoam

45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100828	B254	Unassigned	Unassigned	01243	3	small finds
	Material	unidentifiable		Function	function unknown	

Comment

131 conserved

Condition

P020 fair

P215 staining

Identification

115 visual

Storage

45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100491	B257	Unassigned	Unassigned	01246	1	small finds
	Material	bone/faunal		Function	button	

Comment

131 conserved

Condition

P010 excellent

P040 abraded surface

Identification

115 visual

Storage

25 ethafoam

45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100492	B257	Unassigned	Unassigned	01246	2	small finds
	Material	cu alloy (copper)		Function	straight pin, unidentifiable	

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)

A010 cu o3 (azurite)

C015 cu o2 (cuprite)

P015 good

U005 cu (copper)

Identification

115 visual

Storage

25 ethafoam

45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100829	B257	Unassigned	Unassigned	01246	3	small finds
	Material	cu alloy (copper)		Function	straight pin, unidentifiable	

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)

A010 cu o3 (azurite)

C015 cu o2 (cuprite)

U005 cu (copper)

Identification

115 visual

Storage

25 ethafoam

45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100830	B257	Unassigned	Unassigned	01246	4	small finds
	Material	bone/faunal		Function	button	

Comment

131 conserved

Condition

P015 good

P050 broken

P120 discoloration

Identification

115 visual

Storage

25 ethafoam

45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100346	B259	Unassigned	Unassigned	01249	1	small finds
	Material	metal & wood		Function	nail	

Comment

131 conserved

Condition

P020 fair

P050 broken

P110 dirty

Identification

115 visual

Storage

45 polyethylene box

15 acid free paper

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100321	B259	Unassigned	Unassigned	01249	2	small finds
	Material	metal & wood		Function	straight pin, unidentifiable	

Condition

A005 cu o2 ca co3 (malachite)

A010 cu o3 (azurite)

C015 cu o2 (cuprite)

P015 good

U005 cu (copper)

Identification

115 visual

Storage

45 polyethylene box

15 acid free paper

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100350	B259	Unassigned	Unassigned	01249	3	small finds
	Material	woven cloth		Function	function unknown	

Comment

131 conserved

Condition

P020 fair

P160 friable

Identification

115 visual

Storage

15 acid free paper

45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100524	B259	Unassigned	Unassigned	01249	4	small finds
	Material	linen		Function	textile	

Comment

131 conserved

Condition

P015 good

P155 fragmented

U005 cu (copper)

Identification

115 visual

072 polarizing light microscope

Storage

25 ethafoam

45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100496	B259	Unassigned	Unassigned	01249	5	small finds
	Material	unidentifiable		Function	textile	

Comment

131 conserved

Condition

P020 fair

P095 crumbling

Identification

115 visual

Method

015 brushed

SolventPercent

0

Storage

25 ethafoam

45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100340	B259	Unassigned	Unassigned	01249	6	small finds
	Material	wood & copper alloy		Function	button	

Comment

131 conserved

Condition

P020 fair

A005 cu o2 ca co3 (malachite)

A010 cu o3 (azurite)

C015 cu o2 (cuprite)

P015 good

P050 broken

Identification

115 visual

Method

015 brushed

SolventPercent

0

Storage

15 acid free paper

45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100497	B259	Unassigned	Unassigned	01249	7	small finds
	Material	copper alloy & textile		Function	textile	

Comment

131 conserved

Condition

P020 fair

P110 dirty

P155 fragmented

C015 cu o2 (cuprite)

U005 cu (copper)

Identification

115 visual

Storage

25 ethafoam

45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100504	B259	Unassigned	Unassigned	01249	8	small finds
	Material	cu alloy (copper)		Function	straight pin, wrapped head	

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)

A010 cu o3 (azurite)

C015 cu o2 (cuprite)

P015 good

U005 cu (copper)

P050 broken

Identification

115 visual

Storage

25 ethafoam

45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100506	B259	Unassigned	Unassigned	01249	9	small finds
	Material	copper and tin		Function	button	

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)

A010 cu o3 (azurite)

C015 cu o2 (cuprite)

A005 cu o2 ca co3 (malachite)

P015 good

U005 cu (copper)

P050 broken

Identification

115 visual

Storage

25 ethafoam

45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100507	B259	Unassigned	Unassigned	01249	10	small finds
	Material	leather & wool		Function	button	

Comment

131 conserved

Condition

P020 fair

P095 crumbling

Identification

115 visual

Storage

25 ethafoam

45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100508	B259	Unassigned	Unassigned	01249	11	small finds
	Material	copper and tin		Function	button	

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)

A010 cu o3 (azurite)

C015 cu o2 (cuprite)

P015 good

U005 cu (copper)

Identification

115 visual

Storage

25 ethafoam

45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100499	B259	Unassigned	Unassigned	01249	12	small finds
	Material	organics & wood & metal		Function	function unknown	

Comment

131 conserved

Condition

P020 fair

P050 broken

Identification

115 visual

Storage

25 ethafoam

45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100509	B259	Unassigned	Unassigned	01249	13	small finds
	Material	unidentifiable		Function	textile	

Comment

131 conserved

Condition

P020 fair

P155 fragmented

Identification

115 visual

Storage

15 acid free paper

45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100510	B259	Unassigned	Unassigned	01249	14	small finds
	Material	cu alloy (copper)		Function	coin, unidentifiable	

Comment

131 conserved

Condition

P015 good

A005 cu o2 ca co3 (malachite)

C015 cu o2 (cuprite)

A010 cu o3 (azurite)

U005 cu (copper)

Identification

115 visual

120 x-ray fluorescence

Storage

25 ethafoam

45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100511	B259	Unassigned	Unassigned	01249	15	small finds
	Material	cu alloy (copper)		Function	button shank, looped	

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)

A010 cu o3 (azurite)

C015 cu o2 (cuprite)

P015 good

U005 cu (copper)

Identification

115 visual

Storage

25 ethafoam

45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100500	B259	Unassigned	Unassigned	01249	16	small finds
	Material	copper alloy & textile		Function	button	

BarrierSolventPercent

0

Comment

131 conserved

Condition

P015 good

P040 abraded surface

A005 cu o2 ca co3 (malachite)

A010 cu o3 (azurite)

C015 cu o2 (cuprite)

U005 cu (copper)

ConsolidantSolventPercent

P010 50% b-72 (hmg)

0

Identification

115 visual

080 polarizing light microscope-thin section microscopy

MethodSolventPercent

010 air abrasive

0

Storage

25 ethafoam

45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100512	B259	Unassigned	Unassigned	01249	17	small finds
	Material	unidentifiable organics		Function	unknown organic	

Comment

131 conserved

Condition

P020 fair

P095 crumbling

Identification

115 visual

Storage

25 ethafoam

45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100513	B259	Unassigned	Unassigned	01249	18	small finds
	Material	copper alloy & textile		Function	button	

Comment

131 conserved

Condition

U005 cu (copper)

A005 cu o2 ca co3 (malachite)

A010 cu o3 (azurite)

C015 cu o2 (cuprite)

P015 good

Identification

115 visual

Storage

25 ethafoam

45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100514	B259	Unassigned	Unassigned	01249	19	small finds
	Material	organics & wood & metal		Function	button	

Comment

131 conserved

Condition

P020 fair

U005 cu (copper)

C015 cu o2 (cuprite)

Identification

115 visual

Storage

25 ethafoam

45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100515	B259	Unassigned	Unassigned	01249	20	small finds
	Material	copper and leather		Function	button	

Comment

131 conserved

Condition

P015 good

C015 cu o2 (cuprite)

Identification

115 visual

Storage

25 ethafoam

45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100501	B259	Unassigned	Unassigned	01249	21	small finds
	Material	unidentifiable		Function	textile	

Comment

131 conserved

Condition

P020 fair

P095 crumbling

Identification

115 visual

Storage

25 ethafoam

45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100747	B259	Unassigned	Unassigned	01249	22	small finds
	Material	wood & copper alloy		Function	function unknown	

Comment

131 conserved

Condition

P015 good

C015 cu o2 (cuprite)

P160 friable

P120 discoloration

U005 cu (copper)

Identification

115 visual

Storage

25 ethafoam

45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100495	B266	Unassigned	Unassigned	01262	1	small finds
	Material	cu alloy (copper)		Function	straight pin, unidentifiable	

Condition

A005 cu o2 ca co3 (malachite)

A010 cu o3 (azurite)

C015 cu o2 (cuprite)

P015 good

U005 cu (copper)

Identification

115 visual

Storage

45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100483	B268	Unassigned	Unassigned	01264	1	small finds
	Material	cu alloy (copper)		Function	straight pin, wrapped head	

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)

A010 cu o3 (azurite)

C015 cu o2 (cuprite)

P015 good

U005 cu (copper)

Identification

115 visual

Storage

25 ethafoam

45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100488	B271	Unassigned	Unassigned	01267	1	small finds
	Material	cu alloy (copper)		Function	button	

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)

A010 cu o3 (azurite)

C015 cu o2 (cuprite)

P015 good

U005 cu (copper)

Identification

115 visual

Storage

25 ethafoam

45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100698	B271	Unassigned	Unassigned	01267	2	small finds
	Material	cu alloy (copper)		Function	button	

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)

A010 cu o3 (azurite)

C015 cu o2 (cuprite)

P015 good

U005 cu (copper)

Identification

115 visual

Storage

25 ethafoam

45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100382	B276	Unassigned	Unassigned	01273	1	small finds
	Material	cu alloy (copper)		Function	button	

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)

A010 cu o3 (azurite)

C015 cu o2 (cuprite)

U005 cu (copper)

P025 poor

P105 desiccated

Identification

115 visual

Storage

45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100485	B278	Unassigned	Unassigned	01275	1	small finds
	Material	cu alloy (copper)		Function	button	

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)

A010 cu o3 (azurite)

C015 cu o2 (cuprite)

P015 good

U005 cu (copper)

Identification

115 visual

Storage

25 ethafoam

45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100301	B283	Unassigned	Unassigned	01302	1	small finds
	Material	cu alloy (copper)		Function	straight pin, unidentifiable	

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)

A010 cu o3 (azurite)

C015 cu o2 (cuprite)

P015 good

P110 dirty

U005 cu (copper)

Identification

115 visual

Storage

40 polyethylene bag

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100613	B284	Unassigned	Unassigned	01303	1	small finds
	Material	unidentifiable organics		Function	function unknown	

Comment

134 brought to attention of material specialist

Condition

P110 dirty

Identification

115 visual

Storage

40 polyethylene bag

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100906	B285	Unassigned	Unassigned	01304	1	small finds
	Material	organics & hair		Function	function unknown	

Comment

131 conserved

Condition

P110 dirty

P020 fair

Identification

115 visual

Storage

15 acid free paper

45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100484	B289	Unassigned	Unassigned	01321	1	small finds
	Material	cu alloy (copper)		Function	straight pin, wrapped head	

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)

A010 cu o3 (azurite)

C015 cu o2 (cuprite)

P015 good

U005 cu (copper)

Identification

115 visual

Storage

45 polyethylene box

25 ethafoam

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100832	B289	Unassigned	Unassigned	01321	2	small finds
	Material	cu alloy (copper)		Function		straight pin, unidentifiable

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)

A010 cu o3 (azurite)

C015 cu o2 (cuprite)

U005 cu (copper)

Identification

115 visual

Storage

25 ethafoam

45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100834	B289	Unassigned	Unassigned	01321	3	small finds
	Material	quartz		Function		function unknown

Cleaner

B05 70% ethanol

SolventPercent

0

Comment

131 conserved

Condition

P015 good

Identification

115 visual

Storage

25 ethafoam

45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100833	B290	Unassigned	Unassigned	01324	1	small finds
	Material	cu alloy (copper)		Function		straight pin, wrapped head

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)

A010 cu o3 (azurite)

C015 cu o2 (cuprite)

U005 cu (copper)

Identification

115 visual

Storage

25 ethafoam

45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100603	B292	Unassigned	Unassigned	01139	1	small finds
	Material	cu alloy (copper)		Function		button shank

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)

A010 cu o3 (azurite)

C015 cu o2 (cuprite)

P015 good

U005 cu (copper)

Identification

115 visual

Storage

40 polyethylene bag

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100324	B294	Unassigned	Unassigned	01352	1	small finds
	Material	cu alloy (copper)		Function	straight pin, unidentifiable	

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)

A010 cu o3 (azurite)

C015 cu o2 (cuprite)

P015 good

P050 broken

U005 cu (copper)

Identification

115 visual

Storage

45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100835	B305	Unassigned	Unassigned	01469	1	small finds
	Material	cu alloy (copper)		Function	straight pin, unidentifiable	

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)

A010 cu o3 (azurite)

C015 cu o2 (cuprite)

P050 broken

U005 cu (copper)

Identification

115 visual

Storage

25 ethafoam

45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100836	B305	Unassigned	Unassigned	01469	2	small finds
	Material	cu alloy (copper)		Function	straight pin, unidentifiable	

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)

A010 cu o3 (azurite)

C015 cu o2 (cuprite)

P050 broken

U005 cu (copper)

Identification

115 visual

Storage

25 ethafoam

45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100872	B305	Unassigned	Unassigned	01469	3	small finds
	Material	cu alloy (copper)		Function	straight pin, unidentifiable	

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)

A010 cu o3 (azurite)

C015 cu o2 (cuprite)

P050 broken

U005 cu (copper)

Identification

115 visual

Storage

25 ethafoam

45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100347	B310	Unassigned	Unassigned	01486	1	small finds
	Material	metal & wood		Function	nail	

Comment

131 conserved

Condition

P050 broken

P110 dirty

P015 good

C005 fe o2 (ferrous)

Identification

115 visual

Method

015 brushed

SolventPercent

0

Storage

15 acid free paper

45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100908	B310	Unassigned	Unassigned	01486	2	small finds
	Material	copper alloy & glass		Function	ring	

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)

A010 cu o3 (azurite)

C015 cu o2 (cuprite)

P050 broken

U005 cu (copper)

Identification

115 visual

Storage

25 ethafoam

45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100220	B311	Unassigned	Unassigned	01499	1	small finds
	Material	cu alloy (copper)		Function	straight pin, wrapped head	

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)

A010 cu o3 (azurite)

C015 cu o2 (cuprite)

P015 good

P050 broken

U005 cu (copper)

Identification

115 visual

Storage

45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100837	B311	Unassigned	Unassigned	01499	2	small finds
	Material	cu alloy (copper)		Function	straight pin, wrapped head	

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)

A010 cu o3 (azurite)

C015 cu o2 (cuprite)

P050 broken

U005 cu (copper)

Identification

115 visual

Storage

25 ethafoam

45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100839	B311	Unassigned	Unassigned	01499	3	small finds
	Material	cu alloy (copper)		Function	straight pin, unidentifiable	

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)

A010 cu o3 (azurite)

C015 cu o2 (cuprite)

P050 broken

U005 cu (copper)

Identification

115 visual

Storage

25 ethafoam

45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100838	B311	Unassigned	Unassigned	01499	4	small finds
	Material	cu alloy (copper)		Function	straight pin, unidentifiable	

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)

A010 cu o3 (azurite)

C015 cu o2 (cuprite)

P050 broken

U005 cu (copper)

Identification

115 visual

Storage

25 ethafoam

45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100325	B312	Unassigned	Unassigned	01508	1	small finds
	Material	cu alloy (copper)		Function	straight pin, wrapped head	

CommentCondition

A005 cu o2 ca co3 (malachite)

A010 cu o3 (azurite)

C015 cu o2 (cuprite)

P015 good
 P050 broken
 U005 cu (copper)

Identification

115 visual

Storage

45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100840	B312	Unassigned	Unassigned	01508	2	small finds
	Material	cu alloy (copper)		Function		straight pin, unidentifiable

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)
 A010 cu o3 (azurite)
 C015 cu o2 (cuprite)
 U005 cu (copper)
 P050 broken

Identification

115 visual

Storage

25 ethafoam
 45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100841	B312	Unassigned	Unassigned	01508	3	small finds
	Material	cu alloy (copper)		Function		straight pin, unidentifiable

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)
 A010 cu o3 (azurite)
 C015 cu o2 (cuprite)
 P050 broken
 U005 cu (copper)

Identification

115 visual

Storage

25 ethafoam
 45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100842	B312	Unassigned	Unassigned	01508	4	small finds
	Material	cu alloy (copper)		Function		straight pin, wrapped head

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)

A010 cu o3 (azurite)
 C015 cu o2 (cuprite)
 P050 broken
 U005 cu (copper)

Identification

115 visual

Storage

25 ethafoam
 45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100843	B312	Unassigned	Unassigned	01508	5	small finds
	Material	cu alloy (copper)		Function	straight pin, wrapped head	

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)
 A010 cu o3 (azurite)
 C015 cu o2 (cuprite)
 P050 broken
 U005 cu (copper)

Identification

115 visual

Storage

25 ethafoam
 45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100844	B312	Unassigned	Unassigned	01508	6	small finds
	Material	cu alloy (copper)		Function	straight pin, unidentifiable	

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)
 A010 cu o3 (azurite)
 C015 cu o2 (cuprite)
 P050 broken
 U005 cu (copper)

Identification

115 visual

Storage

25 ethafoam
 45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100845	B312	Unassigned	Unassigned	01508	7	small finds
	Material	cu alloy (copper)		Function	straight pin, wrapped head	

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)
 A010 cu o3 (azurite)
 C015 cu o2 (cuprite)
 P050 broken
 U005 cu (copper)

Identification

115 visual

Storage

25 ethafoam
 45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100846	B312	Unassigned	Unassigned	01508	8	small finds
	Material	cu alloy (copper)		Function	straight pin, wrapped head	

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)
 A010 cu o3 (azurite)
 C015 cu o2 (cuprite)
 P050 broken
 U005 cu (copper)

Identification

115 visual

Storage

25 ethafoam
 45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100849	B312	Unassigned	Unassigned	01508	9	small finds
	Material	cu alloy (copper)		Function	straight pin, wrapped head	

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)
 A010 cu o3 (azurite)
 C015 cu o2 (cuprite)
 U005 cu (copper)

Identification

115 visual

Storage

25 ethafoam
 45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100850	B312	Unassigned	Unassigned	01508	10	small finds
	Material	cu alloy (copper)		Function	straight pin, unidentifiable	

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)

A010 cu o3 (azurite)

C015 cu o2 (cuprite)

P050 broken

U005 cu (copper)

Identification

115 visual

Storage

25 ethafoam

45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100851	B312	Unassigned	Unassigned	01508	11	small finds
	Material	cu alloy (copper)		Function	straight pin, unidentifiable	

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)

A010 cu o3 (azurite)

C015 cu o2 (cuprite)

P050 broken

U005 cu (copper)

Identification

115 visual

Storage

25 ethafoam

45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100852	B312	Unassigned	Unassigned	01508	12	small finds
	Material	cu alloy (copper)		Function	straight pin, unidentifiable	

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)

A010 cu o3 (azurite)

C015 cu o2 (cuprite)

P050 broken

U005 cu (copper)

Identification

115 visual

Storage

25 ethafoam

45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100853	B312	Unassigned	Unassigned	01508	13	small finds
	Material	cu alloy (copper)		Function	straight pin, unidentifiable	

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)

A010 cu o3 (azurite)

C015 cu o2 (cuprite)

P050 broken

U005 cu (copper)

Identification

115 visual

Storage

25 ethafoam

45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100854	B312	Unassigned	Unassigned	01508	14	small finds
	Material	cu alloy (copper)		Function	straight pin, unidentifiable	

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)

A010 cu o3 (azurite)

C015 cu o2 (cuprite)

P050 broken

U005 cu (copper)

Identification

115 visual

Storage

25 ethafoam

45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100221	B313	Unassigned	Unassigned	01516	1	small finds
	Material	bone/faunal		Function	button	

Comment

129 heavy patination

Condition

P020 fair

P040 abraded surface

Identification

115 visual

Storage

45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100222	B313	Unassigned	Unassigned	01516	2	small finds
	Material	bone/faunal		Function	button	

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)

A010 cu o3 (azurite)

C015 cu o2 (cuprite)

P015 good

P050 broken

U005 cu (copper)

Identification

115 visual

Storage

45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100383	B313	Unassigned	Unassigned	01516	3	small finds
	Material	fe (iron)		Function	function unknown	

Comment

131 conserved

Condition

P015 good

C005 fe o2 (ferrous)

Identification

115 visual

Storage

45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100231	B313	Unassigned	Unassigned	01516	4	small finds
	Material	cu alloy (copper)		Function	straight pin, unidentifiable	

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)

A010 cu o3 (azurite)

C015 cu o2 (cuprite)

P015 good

U005 cu (copper)

Identification

115 visual

Storage

45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100879	B313	Unassigned	Unassigned	01516	5	small finds
	Material	cu alloy (copper)		Function	function unknown	

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)
 A010 cu o3 (azurite)
 C015 cu o2 (cuprite)
 P050 broken
 U005 cu (copper)

Identification

115 visual

Storage

25 ethafoam
 45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100887	B313	Unassigned	Unassigned	01516	6	small finds
	Material	cu alloy (copper)		Function	straight pin, unidentifiable	

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)
 A010 cu o3 (azurite)
 C015 cu o2 (cuprite)
 P050 broken
 U005 cu (copper)

Identification

115 visual

Storage

25 ethafoam
 45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100930	B313	Unassigned	Unassigned	01516	7	small finds
	Material	fe (iron)		Function	spike	

Condition

C005 fe o2 (ferrous)
 C010 fe o3 (ferric)

Identification

115 visual
 116 x-ray

Storage

15 acid free paper
 45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100889	B315	Unassigned	Unassigned	01519	1	small finds
	Material	cu alloy (copper)		Function	straight pin, wrapped head	

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)
 A010 cu o3 (azurite)

C015 cu o2 (cuprite)

P050 broken

U005 cu (copper)

Identification

115 visual

Storage

25 ethafoam

45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100223	B316	Unassigned	Unassigned	01521	1	small finds
	Material	cu alloy (copper)		Function		straight pin, wrapped head

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)

A010 cu o3 (azurite)

C015 cu o2 (cuprite)

P015 good

P050 broken

U005 cu (copper)

Identification

115 visual

Storage

45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100224	B319	Unassigned	Unassigned	01541	1	small finds
	Material	cu alloy (copper)		Function		straight pin, wrapped head

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)

A010 cu o3 (azurite)

C015 cu o2 (cuprite)

P015 good

P050 broken

U005 cu (copper)

Identification

115 visual

Storage

45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100225	B320	Unassigned	Unassigned	01544	1	small finds
	Material	cu alloy (copper)		Function		straight pin, wrapped head

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)

A010 cu o3 (azurite)

C015 cu o2 (cuprite)

P015 good

P050 broken

U005 cu (copper)

Identification

115 visual

Storage

45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100226	B321	G	139	01545	1	small finds
	Material	cu alloy (copper)		Function		straight pin, unidentifiable

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)

A010 cu o3 (azurite)

C015 cu o2 (cuprite)

P015 good

P050 broken

U005 cu (copper)

Identification

115 visual

Storage

45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100227	B325	Unassigned	Unassigned	01577	1	small finds
	Material	cu alloy (copper)		Function	button	

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)

A010 cu o3 (azurite)

C015 cu o2 (cuprite)

P015 good

U005 cu (copper)

Identification

115 visual

Storage

45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100261	B325	Unassigned	Unassigned	01577	2	small finds
	Material	cu alloy (copper)		Function		straight pin, unidentifiable

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)
 A010 cu o3 (azurite)
 C015 cu o2 (cuprite)
 P015 good
 U005 cu (copper)

Identification

115 visual

Storage

45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100262	B326	Unassigned	Unassigned	01584	1	small finds
	Material	cu alloy (copper)		Function	button	

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)
 A010 cu o3 (azurite)
 C015 cu o2 (cuprite)
 P015 good
 U005 cu (copper)

Identification

115 visual

Storage

45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100276	B326	Unassigned	Unassigned	01584	2	small finds
	Material	cu alloy (copper)		Function	button	

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)
 A010 cu o3 (azurite)
 C015 cu o2 (cuprite)
 P015 good
 P050 broken
 U005 cu (copper)

Identification

115 visual

Storage

45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100277	B326	Unassigned	Unassigned	01584	3	small finds
	Material	cu alloy (copper)		Function	button	

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)

A010 cu o3 (azurite)

C015 cu o2 (cuprite)

P015 good

P050 broken

Identification

115 visual

Storage

45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100278	B326	Unassigned	Unassigned	01584	4	small finds
	Material	wood		Function	function unknown	

Condition

P015 good

Identification

115 visual

Storage

45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100279	B326	Unassigned	Unassigned	01584	5	small finds
	Material	wood		Function	function unknown	

Comment

131 conserved

Condition

P015 good

Identification

115 visual

Storage

45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100280	B326	Unassigned	Unassigned	01584	6	small finds
	Material	cu alloy (copper)		Function	button	

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)

A010 cu o3 (azurite)

C015 cu o2 (cuprite)

P015 good

U005 cu (copper)

Identification

115 visual

Storage

45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100281	B326	Unassigned	Unassigned	01584	7	small finds
	Material	pb alloy (lead)		Function	lead shot	

Comment

131 conserved

Condition

P010 excellent

A015 pb ca co3 (lead)

Identification

115 visual

Storage

45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100426	B326	Unassigned	Unassigned	01584	8	small finds
	Material	fe (iron)		Function	function unknown	

Comment

131 conserved

Condition

P015 good

Identification

115 visual

Storage

45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100712	B326	Unassigned	Unassigned	01584	9	small finds
	Material	pb (lead)		Function	lead shot	

Comment

131 conserved

Condition

P010 excellent

Identification

115 visual

Storage

25 ethafoam

45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100748	B326	Unassigned	Unassigned	01584	10	small finds
	Material	unidentifiable organics		Function	function unknown	

Comment

131 conserved

Condition

P020 fair

P045 brittle

P120 discoloration

U005 cu (copper)

Identification

115 visual

Storage

25 ethafoam

45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100228	B328	Unassigned	Unassigned	01589	1	small finds
	Material	cu alloy (copper)		Function	straight pin, unidentifiable	

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)

A010 cu o3 (azurite)

C015 cu o2 (cuprite)

P015 good

P050 broken

U005 cu (copper)

Identification

115 visual

Storage

45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100525	B332	Unassigned	Unassigned	01608	1	small finds
	Material	fe (iron)		Function	tack	

Comment

131 conserved

Condition

P015 good

Storage

15 acid free paper

45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100282	B332	Unassigned	Unassigned	01608	2	small finds
	Material	wood & ferrous metal		Function	tack	

Comment

131 conserved

Condition

P015 good

Identification

115 visual

Storage

45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100283	B332	Unassigned	Unassigned	01608	3	small finds
	Material	slag		Function	function unknown	

Comment

131 conserved

Condition

C025 sn o2 (tin)

C030 zn o2 (zinc)

C020 pb o2 (lead)

P015 good

Identification

115 visual

Storage

45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100931	B332	Unassigned	Unassigned	01608	4	small finds
	Material	fe (iron)		Function	tack	

Condition

C005 fe o2 (ferrous)

C010 fe o3 (ferric)

Identification

115 visual

116 x-ray

Storage

15 acid free paper

45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100229	B333	Unassigned	Unassigned	01613	1	small finds
	Material	bone/faunal		Function	button	

Adhesive

P005 50% b-72 (hmg)

SolventPercent

0

Comment

131 conserved

Condition

P015 good

P155 fragmented

Identification

115 visual

Storage

45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100230	B333	Unassigned	Unassigned	01613	2	small finds
	Material	bone/faunal		Function	button	

Comment

131 conserved

Condition

P015 good

P161 misshapen

P040 abraded surface

Identification

115 visual

Storage

45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100232	B333	Unassigned	Unassigned	01613	3	small finds
	Material	bone/faunal		Function	button	

Comment

131 conserved

Condition

P010 excellent

Identification

115 visual

Storage

45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100233	B334	Unassigned	Unassigned	01615	1	small finds
	Material	cu alloy (copper)		Function	straight pin, wrapped head	

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)

A010 cu o3 (azurite)

C015 cu o2 (cuprite)

P015 good

P050 broken

U005 cu (copper)

Identification

115 visual

Storage

45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100384	B335	Unassigned	Unassigned	01616	1	small finds
	Material	cu alloy (copper)		Function	straight pin, wrapped head	

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)

A010 cu o3 (azurite)

C015 cu o2 (cuprite)

P015 good

U005 cu (copper)

Identification

115 visual

Storage

45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100326	B336	Unassigned	Unassigned	01625	1	small finds
	Material	cu alloy (copper)		Function	straight pin, unidentifiable	

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)
 A010 cu o3 (azurite)
 C015 cu o2 (cuprite)
 P015 good
 P110 dirty
 U005 cu (copper)

Identification

115 visual

Storage

45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100349	B340	Unassigned	Unassigned	01651	1	small finds
	Material	clay		Function	tobacco pipe	

Adhesive

P005 50% b-72 (hmg)

SolventPercent

0

Comment

131 conserved
 134 brought to attention of material specialist

Condition

P015 good
 P050 broken
 P040 abraded surface

Identification

115 visual

Storage

15 acid free paper
 45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100385	B340	Unassigned	Unassigned	01651	2	small finds
	Material	cu alloy (copper)		Function	straight pin, wrapped head	

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)
 A010 cu o3 (azurite)
 C015 cu o2 (cuprite)
 P015 good
 P050 broken
 U005 cu (copper)

Identification

115 visual

Storage

45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100386	B340	Unassigned	Unassigned	01651	3	small finds
	Material	glass		Function	bead	

Comment

131 conserved

Condition

P010 excellent

Identification

115 visual

Storage

45 polyethylene box

40 polyethylene bag

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100387	B340	Unassigned	Unassigned	01651	4	small finds
	Material	shell		Function	cowerie shell	

Comment

131 conserved

Condition

P015 good

P110 dirty

Identification

115 visual

Storage

45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100236	B340	Unassigned	Unassigned	01651	5	small finds
	Material	cedar		Function	function unknown	

Condition

P015 good

P050 broken

Identification

115 visual

055 microscope

Storage

45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100427	B340	Unassigned	Unassigned	01651	6	small finds
	Material	cu alloy (copper)		Function	straight pin, wrapped head	

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)

A010 cu o3 (azurite)

C015 cu o2 (cuprite)

P015 good
 P050 broken
 U005 cu (copper)

Identification

115 visual

Storage

45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100388	B341	Unassigned	Unassigned	01652	1	small finds
	Material	cu alloy (copper)		Function	cuff links	

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)
 A010 cu o3 (azurite)
 C015 cu o2 (cuprite)
 P015 good
 U005 cu (copper)

Identification

115 visual

Storage

45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100452	B341	Unassigned	Unassigned	01652	2	small finds
	Material	cu alloy (copper)		Function	straight pin, unidentifiable	

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)
 A010 cu o3 (azurite)
 C015 cu o2 (cuprite)
 P015 good
 U005 cu (copper)

Identification

115 visual

Storage

15 acid free paper
 45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100389	B342	Unassigned	Unassigned	01660	1	small finds
	Material	cu alloy (copper)		Function	straight pin, unidentifiable	

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)
 A010 cu o3 (azurite)

C015 cu o2 (cuprite)

P015 good

U005 cu (copper)

Identification

115 visual

Storage

45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100455	B342	Unassigned	Unassigned	01660	2	small finds
	Material	cu alloy (copper)		Function	function unknown	

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)

A005 cu o2 ca co3 (malachite)

A010 cu o3 (azurite)

C015 cu o2 (cuprite)

P015 good

U005 cu (copper)

Identification

115 visual

Storage

15 acid free paper

45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100234	B343	Unassigned	Unassigned	01663	1	small finds
	Material	cu alloy (copper)		Function	straight pin, unidentifiable	

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)

A010 cu o3 (azurite)

C015 cu o2 (cuprite)

P110 dirty

P015 good

U005 cu (copper)

P050 broken

Identification

115 visual

Storage

45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100237	B346	Unassigned	Unassigned	01695	1	small finds
	Material	cu alloy (copper)		Function	straight pin, wrapped head	

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)
 A010 cu o3 (azurite)
 C015 cu o2 (cuprite)
 P015 good
 P050 broken
 U005 cu (copper)

Identification

115 visual

Storage

45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100391	B346	Unassigned	Unassigned	01695	2	small finds
	Material	cu alloy (copper)		Function		straight pin, unidentifiable

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)
 A010 cu o3 (azurite)
 C015 cu o2 (cuprite)
 P010 excellent
 U005 cu (copper)

Identification

115 visual

Storage

45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100392	B348	Unassigned	Unassigned	01702	1	small finds
	Material	shell		Function		function unknown

Comment

131 conserved

Condition

P015 good
 P050 broken
 P190 powdered

Identification

115 visual

Storage

45 polyethylene box

15 acid free paper

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100715	B351	Unassigned	Unassigned	01716	1	small finds
	Material	cu alloy (copper)		Function		straight pin, unidentifiable

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)

A010 cu o3 (azurite)

C015 cu o2 (cuprite)

P015 good

U005 cu (copper)

Identification

115 visual

Storage

25 ethafoam

45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100459	B352	Unassigned	Unassigned	01719	1	small finds
	Material	fe (iron)		Function	nail	

Condition

P015 good

P050 broken

Identification

115 visual

Storage

15 acid free paper

45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100238	B352	Unassigned	Unassigned	01719	2	small finds
	Material	cu alloy (copper)		Function	straight pin, wrapped head	

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)

A010 cu o3 (azurite)

C015 cu o2 (cuprite)

P015 good

P050 broken

U005 cu (copper)

Identification

115 visual

Storage

45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100569	B352	Unassigned	Unassigned	01719	3	small finds
	Material	shell		Function	function unknown	

Cleaner

B05 70% ethanol

SolventPercent

0

Comment

131 conserved

Condition

P015 good

Identification

115 visual

Storage

15 acid free paper

45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100932	B352	Unassigned	Unassigned	01719	4	small finds
	Material	fe (iron)		Function	function unknown	

Condition

C005 fe o2 (ferrous)

C010 fe o3 (ferric)

Identification

115 visual

Storage

15 acid free paper

45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100239	B353	Unassigned	Unassigned	01723	1	small finds
	Material	cu alloy (copper)		Function	straight pin, wrapped head	

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)

A010 cu o3 (azurite)

C015 cu o2 (cuprite)

P015 good

U005 cu (copper)

Identification

115 visual

Storage

45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100205	B353	Unassigned	Unassigned	01723	2	small finds
	Material	unidentifiable organics		Function	function unknown	

Condition

P015 good

Identification

115 visual

Storage

99 other

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100240	B353	Unassigned	Unassigned	01723	3	small finds
	Material	bone/faunal		Function	button	

Comment

131 conserved

Condition

P020 fair

P155 fragmented

Identification

115 visual

Storage

45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100393	B356	Unassigned	Unassigned	01751	1	small finds
	Material	cu alloy (copper)		Function	straight pin, unidentifiable	

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)

A010 cu o3 (azurite)

C015 cu o2 (cuprite)

P015 good

U005 cu (copper)

Identification

115 visual

Storage

45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100341	B356	Unassigned	Unassigned	01751	2	small finds
	Material	fe (iron)		Function	tack	

Comment

131 conserved

Condition

C005 fe o2 (ferrous)

P110 dirty

P015 good

P050 broken

Identification

115 visual

Method

022 desalinated

Solvent

Percent

0

Storage

45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100458	B360	Unassigned	Unassigned	01798	1	small finds
	Material	cu alloy (copper)		Function	straight pin, unidentifiable	

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)

A010 cu o3 (azurite)

C015 cu o2 (cuprite)

P015 good

U005 cu (copper)

Identification

115 visual

Storage

15 acid free paper

45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100526	B361	Unassigned	Unassigned	01809	1	small finds
	Material	pb/sn/ni alloy pewter		Function	button	

Comment

131 conserved

Identification

115 visual

Storage

25 ethafoam

45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100327	B361	Unassigned	Unassigned	01809	2	small finds
	Material	copper alloy and organic		Function	straight pin, unidentifiable	

Comment

131 conserved

Condition

P015 good

P050 broken

A003 copper carbonates

A010 cu o3 (azurite)

C005 fe o2 (ferrous)

U005 cu (copper)

Identification

115 visual

Storage

45 polyethylene box

25 ethafoam

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100395	B361	Unassigned	Unassigned	01809	3	small finds
	Material	cu alloy (copper)		Function	straight pin, wrapped head	

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)

A010 cu o3 (azurite)

C015 cu o2 (cuprite)

P015 good

P050 broken

U005 cu (copper)

Identification

115 visual

Storage

40 polyethylene bag

45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100878	B362	Unassigned	Unassigned	01819	1	small finds
	Material	cu alloy (copper)		Function	straight pin, wrapped head	

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)

A010 cu o3 (azurite)

C015 cu o2 (cuprite)

P050 broken

U005 cu (copper)

Identification

115 visual

Storage

25 ethafoam

45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100454	B363	Unassigned	Unassigned	01825	1	small finds
	Material	cu alloy (copper)		Function	straight pin, wrapped head	

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)

A010 cu o3 (azurite)

C015 cu o2 (cuprite)

P015 good

U005 cu (copper)

Identification

115 visual

Storage

15 acid free paper

45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100855	B363	Unassigned	Unassigned	01825	2	small finds
	Material	cu alloy (copper)		Function	straight pin, unidentifiable	

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)

A010 cu o3 (azurite)

C015 cu o2 (cuprite)

P050 broken

U005 cu (copper)

Identification

115 visual

Storage

25 ethafoam

45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100856	B363	Unassigned	Unassigned	01825	3	small finds
	Material	cu alloy (copper)		Function	straight pin, wrapped head	

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)

A010 cu o3 (azurite)

C015 cu o2 (cuprite)

P050 broken

U005 cu (copper)

Identification

115 visual

Storage

25 ethafoam

45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100871	B363	Unassigned	Unassigned	01825	4	small finds
	Material	cu alloy (copper)		Function	straight pin, wrapped head	

Barrier

Solvent

Percent

0

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)

A010 cu o3 (azurite)

C015 cu o2 (cuprite)

P050 broken

U005 cu (copper)

Identification

115 visual

Storage

25 ethafoam

45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100396	B365	Unassigned	Unassigned	01827	1	small finds
	Material	shell		Function	function unknown	

Comment

131 conserved

Condition

P015 good
 P050 broken
 P190 powdered

Identification

115 visual

Storage

45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100241	B366	Unassigned	Unassigned	01830	1	small finds
	Material	unidentifiable organics		Function	function unknown	

Comment

131 conserved

Condition

P015 good
 P035 light
 P160 friable

Identification

115 visual

Storage

45 polyethylene box
 15 acid free paper

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100242	B366	Unassigned	Unassigned	01830	2	small finds
	Material	cu alloy (copper)		Function	button	

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)
 A010 cu o3 (azurite)
 C015 cu o2 (cuprite)
 P015 good
 P161 misshapen
 U005 cu (copper)

Identification

115 visual

Storage

45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100397	B368	Unassigned	Unassigned	01868	1	small finds
	Material	cu alloy (copper)		Function	misc object (see written comments)	

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)
 A010 cu o3 (azurite)
 C015 cu o2 (cuprite)

P015 good
 P050 broken
 U005 cu (copper)

Identification

115 visual

Storage

45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100398	B368	Unassigned	Unassigned	01868	2	small finds
	Material	cu alloy (copper)		Function	button shank	

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)
 A010 cu o3 (azurite)
 A005 cu o2 ca co3 (malachite)
 C015 cu o2 (cuprite)
 P015 good
 P050 broken
 U005 cu (copper)

Identification

115 visual

Storage

45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100399	B368	Unassigned	Unassigned	01868	3	small finds
	Material	cu alloy (copper)		Function	straight pin, wrapped head	

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)
 A010 cu o3 (azurite)
 C015 cu o2 (cuprite)
 P015 good
 U005 cu (copper)

Identification

115 visual

Storage

45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100610	B370	Unassigned	Unassigned	01870	1	small finds
	Material	cu alloy (copper)		Function	straight pin, unidentifiable	

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)

A010 cu o3 (azurite)

C015 cu o2 (cuprite)

P050 broken

U005 cu (copper)

Identification

115 visual

Storage

45 polyethylene box

15 acid free paper

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100429	B371	Unassigned	Unassigned	01875	1	small finds
	Material	copper and enamel		Function	cuff links	

Comment

131 conserved

Condition

P010 excellent

A005 cu o2 ca co3 (malachite)

A010 cu o3 (azurite)

C015 cu o2 (cuprite)

U005 cu (copper)

Identification

115 visual

Storage

45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100284	B371	Unassigned	Unassigned	01875	2	small finds
	Material	bone & textile		Function	button inlay	

Comment

131 conserved

Condition

P015 good

P050 broken

P155 fragmented

Identification

115 visual

Storage

45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100861	B371	Unassigned	Unassigned	01875	0	unassigned
	Material	----		Function	----	

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100328	B373	Unassigned	Unassigned	01878	1	small finds
	Material	cu alloy (copper)		Function	straight pin, wrapped head	

Condition

A005 cu o2 ca co3 (malachite)

A010 cu o3 (azurite)

C015 cu o2 (cuprite)

P015 good
 P050 broken
 U005 cu (copper)

Identification

115 visual

Storage

45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100243	B374	Unassigned	Unassigned	01882	1	small finds
	Material	cu alloy (copper)		Function	straight pin, wrapped head	

Comment

131 conserved

Condition

A010 cu o3 (azurite)
 A005 cu o2 ca co3 (malachite)
 C015 cu o2 (cuprite)
 P015 good
 P050 broken
 U005 cu (copper)

Identification

115 visual

Storage

45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100245	B375	Unassigned	Unassigned	01886	1	small finds
	Material	cu alloy (copper)		Function	shoe buckle	

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)
 A010 cu o3 (azurite)
 C015 cu o2 (cuprite)
 P015 good
 P050 broken
 U005 cu (copper)

Identification

115 visual

Storage

45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100246	B375	Unassigned	Unassigned	01886	2	small finds
	Material	metal & ceramic		Function	unident obj	

Comment

131 conserved

Condition

P080 cracking

P050 broken
 A010 cu o3 (azurite)
 A005 cu o2 ca co3 (malachite)
 C015 cu o2 (cuprite)
 P015 good
 U005 cu (copper)

Identification

115 visual

Storage

45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100247	B375	Unassigned	Unassigned	01886	3	small finds
	Material	unidentifiable organics		Function	function unknown	

Comment

131 conserved

Condition

P015 good
 P095 crumbling

Identification

115 visual

Storage

45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100400	B376	Unassigned	Unassigned	01895	1	small finds
	Material	coral		Function	function unknown	

Comment

131 conserved

Condition

P015 good
 P155 fragmented

Identification

115 visual

Storage

45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100857	B376	Unassigned	Unassigned	01895	2	small finds
	Material	cu alloy (copper)		Function	straight pin, unidentifiable	

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)
 A010 cu o3 (azurite)
 C015 cu o2 (cuprite)
 P050 broken
 U005 cu (copper)

Identification

115 visual

Storage

25 ethafoam

45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100858	B376	Unassigned	Unassigned	01895	3	small finds
	Material	cu alloy (copper)		Function	straight pin, wrapped head	

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)

A010 cu o3 (azurite)

C015 cu o2 (cuprite)

P050 broken

U005 cu (copper)

Identification

115 visual

Storage

25 ethafoam

45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100859	B376	Unassigned	Unassigned	01895	4	small finds
	Material	cu alloy (copper)		Function	straight pin, unidentifiable	

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)

A010 cu o3 (azurite)

C015 cu o2 (cuprite)

P050 broken

U005 cu (copper)

Identification

115 visual

Storage

25 ethafoam

45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100860	B376	Unassigned	Unassigned	01895	5	small finds
	Material	cu alloy (copper)		Function	straight pin, unidentifiable	

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)

A010 cu o3 (azurite)

C015 cu o2 (cuprite)

U005 cu (copper)

P050 broken

Identification

115 visual

Storage

25 ethafoam

45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100875	B376	Unassigned	Unassigned	01895	6	small finds
	Material	cu alloy (copper)		Function	straight pin, wrapped head	

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)

A010 cu o3 (azurite)

C015 cu o2 (cuprite)

P050 broken

U005 cu (copper)

Identification

115 visual

Storage

25 ethafoam

45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100248	B379	Unassigned	Unassigned	01906	1	small finds
	Material	leather		Function	function unknown	

Comment

131 conserved

Condition

P020 fair

P100 dehydrated

P110 dirty

Identification

115 visual

Storage

45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100249	B379	Unassigned	Unassigned	01906	2	small finds
	Material	cu alloy (copper)		Function	button shank	

Comment

131 conserved

Condition

P015 good

A005 cu o2 ca co3 (malachite)

A010 cu o3 (azurite)

C015 cu o2 (cuprite)

U005 cu (copper)

Identification

115 visual

Storage

45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100890	B379	Unassigned	Unassigned	01906	3	small finds
	Material	cu alloy (copper)		Function	button	

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)

A010 cu o3 (azurite)

C015 cu o2 (cuprite)

P050 broken

U005 cu (copper)

Identification

115 visual

Storage

25 ethafoam

45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100250	B380	Unassigned	Unassigned	01912	1	small finds
	Material	cu alloy (copper)		Function	straight pin, unidentifiable	

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)

A010 cu o3 (azurite)

C015 cu o2 (cuprite)

P015 good

P050 broken

U005 cu (copper)

Identification

115 visual

Storage

45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100615	B383	Unassigned	Unassigned	01931	1	small finds
	Material	organics & wood & metal		Function	function unknown	

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)

C015 cu o2 (cuprite)

P110 dirty

Identification

115 visual

Storage

45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100251	B385	Unassigned	Unassigned	01964	1	small finds
	Material	bone/faunal		Function	button	

Comment

131 conserved

Condition

P015 good

P050 broken

P110 dirty

Identification

115 visual

Storage

45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100611	B385	Unassigned	Unassigned	01964	2	small finds
	Material	cu alloy (copper)		Function	straight pin, wrapped head	

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)

A010 cu o3 (azurite)

C015 cu o2 (cuprite)

P050 broken

U005 cu (copper)

Identification

115 visual

Storage

15 acid free paper

45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100252	B387	Unassigned	Unassigned	01996	1	small finds
	Material	cu alloy (copper)		Function	cuff links	

Comment

Condition

A005 cu o2 ca co3 (malachite)

A010 cu o3 (azurite)

C015 cu o2 (cuprite)

P050 broken

P020 fair

U005 cu (copper)

Identification

115 visual

Storage

45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100572	B387	Unassigned	Unassigned	01996	2	small finds
	Material	shell		Function	function unknown	

Comment

131 conserved

Condition

P020 fair

P050 broken

Identification

115 visual

Storage

15 acid free paper

45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100309	B388	Unassigned	Unassigned	02008	1	small finds
	Material	cu alloy (copper)		Function	straight pin, unidentifiable	

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)

A010 cu o3 (azurite)

C015 cu o2 (cuprite)

P015 good

P050 broken

U005 cu (copper)

Identification

115 visual

Storage

99 other

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100401	B389	Unassigned	Unassigned	02023	1	small finds
	Material	copper alloy & textile		Function	straight pin, unidentifiable	

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)

A010 cu o3 (azurite)

C015 cu o2 (cuprite)

P015 good

P050 broken

U005 cu (copper)

Identification

115 visual

Storage

45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100285	B392	Unassigned	Unassigned	02039	1	small finds
	Material	bone & textile		Function	button back	

Comment

131 conserved

Condition

P015 good

Identification

115 visual

Storage

45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100287	B392	Unassigned	Unassigned	02039	2	small finds
	Material	wood & bone & textile		Function	button back	

Comment

131 conserved

Condition

P015 good

Identification

115 visual

Storage

45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100288	B392	Unassigned	Unassigned	02039	3	small finds
	Material	cu alloy (copper)		Function	cuff links	

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)

A010 cu o3 (azurite)

C015 cu o2 (cuprite)

P015 good

U005 cu (copper)

Identification

115 visual

Storage

45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100289	B392	Unassigned	Unassigned	02039	4	small finds
	Material	bone/faunal		Function	button back	

Comment

131 conserved

Condition

P015 good

P050 broken

Identification

115 visual

Storage

45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100291	B392	Unassigned	Unassigned	02039	5	small finds
	Material	bone & textile		Function	button	

Comment

131 conserved

Condition

P015 good

Identification

115 visual

Method

015 brushed

SolventPercent

0

Storage

45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100290	B392	Unassigned	Unassigned	02039	6	small finds
	Material	bone/faunal		Function	button back	

Comment

131 conserved

Condition

P015 good

P050 broken

Identification

115 visual

Storage

45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100405	B392	Unassigned	Unassigned	02039	7	small finds
	Material	bone/faunal		Function	button back	

Comment

131 conserved

Condition

P010 excellent

Identification

115 visual

Storage

45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100406	B392	Unassigned	Unassigned	02039	8	small finds
	Material	bone/faunal		Function	button back	

Comment

131 conserved

Condition

P010 excellent

Identification

115 visual

Storage

45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100917	B392	Unassigned	Unassigned	02039	9	small finds
	Material	wood & bone & textile		Function	button	

Comment

131 conserved

Condition

P110 dirty

P100 dehydrated

Identification

115 visual

Storage

25 ethafoam

45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100918	B392	Unassigned	Unassigned	02039	10	small finds
	Material	wood & fiber		Function	function unknown	

Comment

131 conserved

Condition

P020 fair

P155 fragmented

Identification

115 visual

Storage

25 ethafoam

45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100457	B393	Unassigned	Unassigned	02051	1	small finds
	Material	cu alloy (copper)		Function	straight pin, wrapped head	

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)

A010 cu o3 (azurite)

C015 cu o2 (cuprite)

P015 good

U005 cu (copper)

Identification

115 visual

Storage

15 acid free paper

45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100310	B395	Unassigned	Unassigned	02058	1	small finds
	Material	cu alloy (copper)		Function	straight pin, unidentifiable	

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)

A010 cu o3 (azurite)

C015 cu o2 (cuprite)

P015 good

P050 broken

U005 cu (copper)

Identification

115 visual

Storage

45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100862	B396	Unassigned	Unassigned	02059	1	small finds
	Material	cu alloy (copper)		Function	straight pin, unidentifiable	

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)

A010 cu o3 (azurite)

C015 cu o2 (cuprite)

P050 broken

U005 cu (copper)

Identification

115 visual

Storage

25 ethafoam

45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100863	B396	Unassigned	Unassigned	02059	2	small finds
	Material	cu alloy (copper)		Function	straight pin, unidentifiable	

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)

A010 cu o3 (azurite)

C015 cu o2 (cuprite)

P050 broken

U005 cu (copper)

Identification

115 visual

Storage

25 ethafoam

45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100864	B396	Unassigned	Unassigned	02059	3	small finds
	Material	cu alloy (copper)		Function	straight pin, wrapped head	

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)

A010 cu o3 (azurite)

C015 cu o2 (cuprite)

P050 broken

U005 cu (copper)

Identification

115 visual

Storage

25 ethafoam

45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100865	B396	Unassigned	Unassigned	02059	4	small finds
	Material	cu alloy (copper)		Function	straight pin, wrapped head	

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)

A010 cu o3 (azurite)

C015 cu o2 (cuprite)

P050 broken

U005 cu (copper)

Identification

115 visual

Storage

25 ethafoam

45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100866	B396	Unassigned	Unassigned	02059	5	small finds
	Material	cu alloy (copper)		Function	straight pin, unidentifiable	

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)

A010 cu o3 (azurite)

C015 cu o2 (cuprite)

P050 broken

U005 cu (copper)

Identification

115 visual

Storage

25 ethafoam

45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100868	B396	Unassigned	Unassigned	02059	6	small finds
	Material	cu alloy (copper)		Function	straight pin, unidentifiable	

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)

A010 cu o3 (azurite)

C015 cu o2 (cuprite)

P050 broken

U005 cu (copper)

Identification

115 visual

Storage

25 ethafoam

45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100867	B396	Unassigned	Unassigned	02059	7	small finds
	Material	cu alloy (copper)		Function	straight pin, wrapped head	

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)

A010 cu o3 (azurite)

C015 cu o2 (cuprite)

P050 broken

U005 cu (copper)

Identification

115 visual

Storage

25 ethafoam

45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100870	B396	Unassigned	Unassigned	02059	8	small finds
	Material	cu alloy (copper)		Function	straight pin, unidentifiable	

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)

A010 cu o3 (azurite)

C015 cu o2 (cuprite)

P050 broken

U005 cu (copper)

Identification

115 visual

Storage

25 ethafoam

45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100874	B396	Unassigned	Unassigned	02059	9	small finds
	Material	copper alloy & hair		Function	straight pin, unidentifiable	

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)

A010 cu o3 (azurite)

C015 cu o2 (cuprite)

P050 broken

U005 cu (copper)

Identification

115 visual

Storage

25 ethafoam

45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100876	B396	Unassigned	Unassigned	02059	10	small finds
	Material	cu alloy (copper)		Function	straight pin, wrapped head	

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)

A010 cu o3 (azurite)

C015 cu o2 (cuprite)

P050 broken

U005 cu (copper)

Identification

115 visual

Storage

25 ethafoam

45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100402	B398	Unassigned	Unassigned	02061	1	small finds
	Material	cu alloy (copper)		Function	ring	

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)

A010 cu o3 (azurite)

C015 cu o2 (cuprite)

P015 good

P050 broken

U005 cu (copper)

Identification

115 visual

Storage

45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100253	B398	Unassigned	Unassigned	02061	2	small finds
	Material	cu alloy (copper)		Function	straight pin, unidentifiable	

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)

A010 cu o3 (azurite)

C015 cu o2 (cuprite)

P015 good

P010 excellent

U005 cu (copper)

Identification

115 visual

Storage

45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100403	B398	Unassigned	Unassigned	02061	3	small finds
	Material	cu alloy (copper)		Function	cuff links	

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)

A010 cu o3 (azurite)

C015 cu o2 (cuprite)

P015 good

P050 broken

U005 cu (copper)

Identification

115 visual

Storage

45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100573	B398	Unassigned	Unassigned	02061	4	small finds
	Material	shell		Function	function unknown	

Comment

131 conserved

Condition

P020 fair

P050 broken

Identification

115 visual

Storage

15 acid free paper

45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100873	B398	Unassigned	Unassigned	02061	5	small finds
	Material	cu alloy (copper)		Function	straight pin, wrapped head	

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)

A010 cu o3 (azurite)

C015 cu o2 (cuprite)

P050 broken

U005 cu (copper)

Identification

115 visual

Storage

25 ethafoam

45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100407	B399	Unassigned	Unassigned	02063	1	small finds
	Material	cu alloy (copper)		Function	straight pin, unidentifiable	

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)

A010 cu o3 (azurite)

C015 cu o2 (cuprite)

P015 good

P050 broken

U005 cu (copper)

Identification

115 visual

Storage

45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100891	B399	Unassigned	Unassigned	02063	2	small finds
	Material	cu alloy (copper)		Function	straight pin, unidentifiable	

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)

A010 cu o3 (azurite)

C015 cu o2 (cuprite)

P050 broken

U005 cu (copper)

Identification

115 visual

Storage

25 ethafoam

45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100311	B400	Unassigned	Unassigned	02064	1	small finds
	Material	cu alloy (copper)		Function	straight pin, unidentifiable	

CommentCondition

A005 cu o2 ca co3 (malachite)

A010 cu o3 (azurite)

C015 cu o2 (cuprite)

P015 good

U005 cu (copper)

Identification

115 visual

Storage

45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100612	B403	Unassigned	Unassigned	02067	1	small finds
	Material	fe (iron)		Function	function unknown	

Comment

131 conserved

Condition

P050 broken

C010 fe o3 (ferric)

Identification

115 visual

Storage

45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100254	B403	Unassigned	Unassigned	02067	2	small finds
	Material	pb/sn/ni alloy pewter		Function	button	

Adhesive

P005 50% b-72 (hmg)

SolventPercent

0

Comment

131 conserved

Condition

C020 pb o2 (lead)

C025 sn o2 (tin)

P015 good

P161 misshapen

Identification

115 visual

Storage

45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100255	B403	Unassigned	Unassigned	02067	3	small finds
	Material	cu alloy (copper)		Function	button	

Adhesive

P005 50% b-72 (hmg)

SolventPercent

0

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)

A010 cu o3 (azurite)

C015 cu o2 (cuprite)

P015 good

U005 cu (copper)

Identification

115 visual

Storage

45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100256	B403	Unassigned	Unassigned	02067	4	small finds
	Material	cu alloy (copper)		Function	button	

Comment

131 conserved

Condition

C015 cu o2 (cuprite)

P015 good

U005 cu (copper)

Identification

115 visual

Storage

45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100206	B403	Unassigned	Unassigned	02067	5	small finds
	Material	unidentifiable organics		Function	function unknown	

Condition

P030 heavy

P020 fair

P095 crumbling

P190 powdered

Identification

115 visual

Storage

99 other

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100408	B403	Unassigned	Unassigned	02067	6	small finds
	Material	wood & ferrous metal		Function	function unknown	

Comment

131 conserved

Condition

P015 good

P155 fragmented

C005 fe o2 (ferrous)

C010 fe o3 (ferric)

Identification

115 visual

Storage

45 polyethylene box

15 acid free paper

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100892	B403	Unassigned	Unassigned	02067	7	small finds
	Material	cu alloy (copper)		Function	straight pin, wrapped head	

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)

A010 cu o3 (azurite)

C015 cu o2 (cuprite)

P050 broken

U005 cu (copper)

Identification

115 visual

Storage

25 ethafoam

45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100916	B403	Unassigned	Unassigned	02067	8	small finds
	Material	unidentifiable organics		Function	function unknown	

Comment

131 conserved

Condition

P015 good

P160 friable

Identification

115 visual

Storage

15 acid free paper

45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100409	B405	Unassigned	Unassigned	02071	1	small finds
	Material	white metal		Function	button	

Comment

131 conserved

Condition

C015 cu o2 (cuprite)

C025 sn o2 (tin)

A005 cu o2 ca co3 (malachite)

A010 cu o3 (azurite)

Identification

115 visual

Storage

45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100257	B405	Unassigned	Unassigned	02071	2	small finds
	Material	unidentifiable organics		Function	function unknown	

CommentCondition

P020 fair

C015 cu o2 (cuprite)

P095 crumbling

P135 encrusted

Identification

115 visual

Storage

45 polyethylene box

15 acid free paper

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100410	B405	Unassigned	Unassigned	02071	3	small finds
	Material	cu alloy (copper)		Function	straight pin, wrapped head	

Comment

131 conserved

Condition

C015 cu o2 (cuprite)

P015 good

Identification

115 visual

Storage

45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100258	B406	Unassigned	Unassigned	02078	1	small finds
	Material	cu alloy (copper)		Function	straight pin, wrapped head	

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)

A010 cu o3 (azurite)

C015 cu o2 (cuprite)

P015 good

P050 broken

U005 cu (copper)

Identification

115 visual

Storage

45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100893	B406	Unassigned	Unassigned	02078	2	small finds
	Material	cu alloy (copper)		Function	straight pin, wrapped head	

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)

A010 cu o3 (azurite)

C015 cu o2 (cuprite)

P050 broken

U005 cu (copper)

Identification

115 visual

Storage

25 ethafoam

45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100904	B410	Unassigned	Unassigned	02082	1	small finds
	Material	unidentifiable		Function	function unknown	

Comment

131 conserved

125 unknown object/function

Condition

P015 good

Identification

115 visual

Storage

25 ethafoam

45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100259	B412	Unassigned	Unassigned	02094	1	small finds
	Material	cu alloy (copper)		Function	straight pin, wrapped head	

Comment

131 conserved

Condition

A010 cu o3 (azurite)

A005 cu o2 ca co3 (malachite)

C015 cu o2 (cuprite)

P015 good

P050 broken

U005 cu (copper)

Identification

115 visual

Storage

45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100450	B412	Unassigned	Unassigned	02094	2	small finds
	Material	coral		Function	function unknown	

Comment

131 conserved

Condition

P015 good

Identification

115 visual

Storage

15 acid free paper

45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100449	B412	Unassigned	Unassigned	02094	2	unassigned
	Material	----		Function	----	

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100456	B412	Unassigned	Unassigned	02094	3	small finds
	Material	fe (iron)		Function	activities, miscellaneous - other (see written comments)	

Comment

131 conserved

Condition

P015 good

Identification

115 visual

Storage

15 acid free paper

45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100260	B414	Unassigned	Unassigned	02096	1	small finds
	Material	cu alloy (copper)		Function	straight pin, wrapped head	

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)

A010 cu o3 (azurite)

C015 cu o2 (cuprite)

P015 good

P050 broken

U005 cu (copper)

Identification

115 visual

Storage

45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100292	B415	Unassigned	Unassigned	02097	1	small finds
	Material	cu alloy (copper)		Function	straight pin, wrapped head	

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)

A010 cu o3 (azurite)

C015 cu o2 (cuprite)

P015 good

P050 broken

Identification

115 visual

Storage

45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100293	B415	Unassigned	Unassigned	02097	2	small finds
	Material	copper alloy & leather		Function	button	

Comment

131 conserved

Condition

P015 good

P155 fragmented

Identification

115 visual

Method

015 brushed

SolventPercent

0

Storage

45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100294	B415	Unassigned	Unassigned	02097	3	small finds
	Material	cu alloy (copper)		Function	button	

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)

A010 cu o3 (azurite)

C015 cu o2 (cuprite)

P015 good

U005 cu (copper)

Identification

115 visual

Storage

45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100295	B415	Unassigned	Unassigned	02097	4	small finds
	Material	wool		Function	textile	

Comment

131 conserved

Condition

P015 good

P110 dirty

P155 fragmented

Identification

115 visual

Storage

45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100411	B415	Unassigned	Unassigned	02097	5	small finds
	Material	cu alloy (copper)		Function	button	

Comment

131 conserved

Condition

P010 excellent

Identification

115 visual

Storage

45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100746	B415	Unassigned	Unassigned	02097	6	small finds
	Material	wood & fiber		Function	function unknown	

Comment

131 conserved

Condition

P015 good

P045 brittle

P110 dirty

Identification

115 visual

Storage

25 ethafoam

45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100342	B419	Unassigned	Unassigned	02104	1	small finds
	Material	unidentifiable		Function	function unknown	

Comment

131 conserved

Condition

P015 good
 P035 light
 P155 fragmented

Identification

115 visual

Method

015 brushed

SolventPercent

0

Storage

15 acid free paper
 45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100413	B419	Unassigned	Unassigned	02104	2	small finds
	Material	other		Function	function unknown	

Comment

131 conserved

Condition

P015 good

Identification

115 visual

Storage

45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100706	B425	Unassigned	Unassigned	02111	1	small finds
	Material	fe (iron)		Function	strapping	

Cleaner

Y05 electrolytic reduction

SolventPercent

0

Comment

131 conserved

Condition

P015 good
 P050 broken
 C005 fe o2 (ferrous)
 P045 brittle

Consolidant

C005 micro-crystalline wax - hot wax

SolventPercent

0

Identification

115 visual

Inhibitor

Q050 CRC-336

SolventPercent

0

Method

105 saturated environment

SolventPercent

0

Storage

25 ethafoam
 20 buffered box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100414	B428	Unassigned	Unassigned	02115	1	small finds
	Material	glass		Function	bead	

Comment

131 conserved

134 brought to attention of material specialist

Condition

P010 excellent

Identification

115 visual

Storage

45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100781	Unassigned	A	509	00009	1	small finds
	Material	cu alloy (copper)		Function	America - Confederation Period - New Jersey	copper

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)

A010 cu o3 (azurite)

C015 cu o2 (cuprite)

P015 good

U005 cu (copper)

Identification

115 visual

Storage

40 polyethylene bag

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100641	Unassigned	A	509	00107	1	small finds
	Material	cu alloy (copper)		Function	straight pin, unidentifiable	

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)

A010 cu o3 (azurite)

C015 cu o2 (cuprite)

U005 cu (copper)

P135 encrusted

Identification

115 visual

Storage

40 polyethylene bag

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100718	Unassigned	A	509	00430	1	small finds
	Material	bone/faunal		Function	handle, miscellaneous	

Comment

131 conserved

Condition

P020 fair

P050 broken

P080 cracking

Identification

115 visual

Storage

25 ethafoam

45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100741	Unassigned	A	509	01527	1	small finds
	Material	leather		Function	leather scraps	

Cleaner

L05 soak

Solvent

Percent

0

Comment

131 conserved

Condition

P015 good

P161 misshapen

Identification

115 visual

Method

015 brushed

Solvent

Percent

0

Storage

40 polyethylene bag

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
2705	Unassigned	A	509	01528	1	small finds
	Material	bone/faunal		Function	button	

Comment

131 conserved

Condition

P105 desiccated

P110 dirty

Identification

115 visual

Storage

40 polyethylene bag

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
2706	Unassigned	A	509	01528	2	small finds
	Material	bone/faunal		Function	button	

Comment

131 conserved

Condition

P105 desiccated

P110 dirty

Identification

115 visual

Storage

40 polyethylene bag

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
2707	Unassigned	A	509	01528	3	small finds
	Material	cu alloy (copper)		Function	button	

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)

A010 cu o3 (azurite)

C015 cu o2 (cuprite)

U005 cu (copper)

Identification

115 visual

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
2784	Unassigned	A	509	01528	4	small finds
	Material	metal & glass		Function	button	

Comment

143 washed and labeled

Condition

P050 broken

P110 dirty

P135 encrusted

Identification

115 visual

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100541	Unassigned	A	509	01528	5	small finds
	Material	plastic		Function	electrical part, misc.	

Cleaner

B05 70% ethanol

SolventPercent

0

Comment

131 conserved

Condition

P015 good

P050 broken

P110 dirty

Identification

115 visual

Storage

40 polyethylene bag

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100623	Unassigned	A	509	01538	1	small finds
	Material	cu alloy (copper)		Function	function unknown	

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)
 A010 cu o3 (azurite)
 C015 cu o2 (cuprite)
 U005 cu (copper)
 H005 nantokite

Identification

115 visual

Storage

40 polyethylene bag

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100547	Unassigned	A	509	01538	2	small finds
	Material	flint		Function	gunflint, french fine	

Cleaner

B05 70% ethanol

SolventPercent

0

Comment

131 conserved

Condition

P010 excellent

Identification

115 visual

Storage

40 polyethylene bag

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100671	Unassigned	A	509	01705	2	small finds
	Material	cu alloy (copper)		Function	strapping	

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)
 A010 cu o3 (azurite)
 C015 cu o2 (cuprite)
 U005 cu (copper)

Identification

115 visual

Storage

40 polyethylene bag

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100028	Unassigned	A	510	00049	1	small finds
	Material	cu alloy (copper)		Function	button	

Condition

P015 good
 A005 cu o2 ca co3 (malachite)
 A010 cu o3 (azurite)
 C015 cu o2 (cuprite)
 U005 cu (copper)

H005 nantokite

Identification

115 visual

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100626	Unassigned	A	510	00051	1	small finds
	Material	cu alloy (copper)		Function	button	

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)

A010 cu o3 (azurite)

C015 cu o2 (cuprite)

P015 good

U005 cu (copper)

Identification

115 visual

Storage

40 polyethylene bag

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100041	Unassigned	A	510	00053	1	small finds
	Material	cu alloy (copper)		Function	hardware	

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)

A010 cu o3 (azurite)

C015 cu o2 (cuprite)

U005 cu (copper)

P015 good

Identification

115 visual

Storage

40 polyethylene bag

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100953	Unassigned	A	510	02142	1	small finds
	Material	bone/faunal		Function	button, outer-garment	

Comment

131 conserved

Condition

P050 broken

P105 desiccated

Identification

115 visual

Storage

40 polyethylene bag

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100079	Unassigned	B	002	00023	1	small finds
	Material	cu alloy (copper)		Function	coin-shaped slug	

Comment

131 conserved

Condition

A010 cu o3 (azurite)

A005 cu o2 ca co3 (malachite)

C015 cu o2 (cuprite)

U005 cu (copper)

P040 abraded surface

Identification

115 visual

Storage

40 polyethylene bag

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
2674	Unassigned	B	027	00550	1	small finds
	Material	bone/faunal		Function	button	

Comment

131 conserved

Condition

P105 desiccated

P110 dirty

Identification

115 visual

Storage

40 polyethylene bag

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
2733	Unassigned	B	027	00550	2	small finds
	Material	bone/faunal		Function	culinary utensil handle, misc.	

Comment

131 conserved

Condition

P045 brittle

P050 broken

P095 crumbling

P105 desiccated

P110 dirty

Identification

115 visual

Storage

40 polyethylene bag

45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
2676	Unassigned	B	027	00550	3	small finds
	Material	bone & brass		Function	button	

Comment

131 conserved

Condition

P105 desiccated

P110 dirty

Identification

115 visual

Storage

40 polyethylene bag

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100559	Unassigned	B	027	00698	1	small finds
	Material	cu alloy (copper)		Function	straight pin, wrapped head	

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)

A010 cu o3 (azurite)

C015 cu o2 (cuprite)

P015 good

U005 cu (copper)

Identification

115 visual

Storage

40 polyethylene bag

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
2717	Unassigned	B	027	00698	2	small finds
	Material	cu alloy (copper)		Function	unident obj	

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)

A010 cu o3 (azurite)

C015 cu o2 (cuprite)

U005 cu (copper)

Identification

115 visual

Storage

40 polyethylene bag

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100562	Unassigned	B	027	00698	3	small finds
	Material	cu alloy (copper)		Function	button	

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)

A010 cu o3 (azurite)

C015 cu o2 (cuprite)

P015 good

U005 cu (copper)

Identification

115 visual

Storage

40 polyethylene bag

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
2683	Unassigned	B	027	00703	1	small finds
	Material	cu alloy (copper)		Function	hook, clothing	

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)

A010 cu o3 (azurite)

C015 cu o2 (cuprite)

U005 cu (copper)

Identification

115 visual

Storage

40 polyethylene bag

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100555	Unassigned	B	027	00703	2	small finds
	Material	cu alloy (copper)		Function	cuff links	

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)

A010 cu o3 (azurite)

C015 cu o2 (cuprite)

P015 good

U005 cu (copper)

Identification

115 visual

Storage

40 polyethylene bag

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100581	Unassigned	B	027	00703	3	small finds
	Material	cu alloy (copper)		Function	straight pin, unidentifiable	

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)

A010 cu o3 (azurite)

C015 cu o2 (cuprite)

U005 cu (copper)

Identification

115 visual

Storage

40 polyethylene bag

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100558	Unassigned	B	027	00703	4	small finds
	Material	cu alloy (copper)		Function	pendant / medallion	

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)

A010 cu o3 (azurite)

C015 cu o2 (cuprite)

P015 good

U005 cu (copper)

Identification

115 visual

Storage

40 polyethylene bag

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100606	Unassigned	B	027	00703	5	small finds
	Material	cu alloy (copper)		Function	tack	

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)

A010 cu o3 (azurite)

C015 cu o2 (cuprite)

U005 cu (copper)

P015 good

Identification

115 visual

Storage

40 polyethylene bag

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100044	Unassigned	B	027	00703	6	small finds
	Material	cu alloy (copper)		Function	button	

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)

A010 cu o3 (azurite)

C015 cu o2 (cuprite)

U005 cu (copper)

Identification

115 visual

Storage

40 polyethylene bag

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
2775	Unassigned	B	038	00667	1	small finds
	Material	bone/faunal		Function	button	

Comment

131 conserved

Condition

P050 broken

P105 desiccated

P110 dirty

Identification

115 visual

Storage

40 polyethylene bag

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100438	Unassigned	B	038	00713	1	small finds
	Material	pb (lead)		Function	bale seal	

Comment

131 conserved

Condition

P015 good

P040 abraded surface

P185 pitted

Identification

115 visual

Method

010 air abrasive

SolventPercent

0

Storage

40 polyethylene bag

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100952	Unassigned	B	138	01546	1	unassigned
	Material	cu alloy (copper)		Function	function unknown	

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)

U005 cu (copper)

H005 nantokite

A010 cu o3 (azurite)

C015 cu o2 (cuprite)

Identification

115 visual

Storage

40 polyethylene bag

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
2646	Unassigned	B	211	00152	1	small finds
	Material	bone/faunal		Function	button	

Comment

131 conserved

Condition

P105 desiccated

P110 dirty

B005 mold

Identification

115 visual

Storage

40 polyethylene bag

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100941	Unassigned	B	211	00196	1	small finds
	Material	cu alloy (copper)		Function	button	

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)

A010 cu o3 (azurite)

P015 good

U005 cu (copper)

C015 cu o2 (cuprite)

Identification

115 visual

Storage

40 polyethylene bag

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
2720	Unassigned	B	509	00012	1	small finds
	Material	cu alloy (copper)		Function	America - small cent - indian head	

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)

A010 cu o3 (azurite)

C005 fe o2 (ferrous)

U005 cu (copper)

Identification

115 visual

Storage

40 polyethylene bag

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
2787	Unassigned	B	509	00013	1	small finds
	Material	cu alloy (copper)		Function	manufactured, miscellaneous	

Comment

131 conserved

Condition

P015 good

A005 cu o2 ca co3 (malachite)

A010 cu o3 (azurite)

C015 cu o2 (cuprite)

U005 cu (copper)

Identification

115 visual

Storage

40 polyethylene bag

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
2785	Unassigned	B	509	00013	2	small finds
	Material	cu alloy (copper)		Function	castor	

Comment

131 conserved

Condition

P015 good

A005 cu o2 ca co3 (malachite)

C015 cu o2 (cuprite)

A010 cu o3 (azurite)

U005 cu (copper)

Identification

115 visual

Storage

40 polyethylene bag

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100024	Unassigned	B	509	00013	3	small finds
	Material	cu alloy (copper)		Function	wire, miscellaneous	

Comment

131 conserved

Condition

P015 good

A005 cu o2 ca co3 (malachite)

A010 cu o3 (azurite)

C015 cu o2 (cuprite)

U005 cu (copper)

Identification

115 visual

Storage

40 polyethylene bag

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100101	Unassigned	B	509	00013	4	small finds
	Material	cu alloy (copper)		Function	weight	

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)

A010 cu o3 (azurite)

C015 cu o2 (cuprite)

P015 good

U005 cu (copper)

ConsolidantSolventPercent

P005 b-72

0

Identification

115 visual

Storage

40 polyethylene bag

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
2728	Unassigned	B	509	00013	5	small finds
	Material	cu alloy (copper)		Function	function unknown	

Condition

A005 cu o2 ca co3 (malachite)

A010 cu o3 (azurite)

C015 cu o2 (cuprite)

U005 cu (copper)

P050 broken

Identification

115 visual

Storage

40 polyethylene bag

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100539	Unassigned	B	511	00011	1	small finds
	Material	cu alloy (copper)		Function	America - large cent - coronet head	

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)

A010 cu o3 (azurite)

C015 cu o2 (cuprite)

P015 good

Identification

115 visual

Storage

40 polyethylene bag

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100600	Unassigned	B	511	00680	1	small finds
	Material	cu alloy (copper)		Function	thimble	

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)

A010 cu o3 (azurite)

C015 cu o2 (cuprite)

P080 cracking

P110 dirty
U005 cu (copper)

Identification

115 visual

Storage

40 polyethylene bag

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
2743	Unassigned	D	515	00089	1	small finds
	Material	cu alloy (copper)		Function	cuff links	

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)
A010 cu o3 (azurite)
C015 cu o2 (cuprite)
U005 cu (copper)

Identification

115 visual

Storage

40 polyethylene bag
45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
2757	Unassigned	D	515	00089	2	small finds
	Material	bone/faunal		Function	button	

Comment

131 conserved

Condition

P105 desiccated
P110 dirty

Identification

115 visual

Storage

45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
2645	Unassigned	D	515	00090	1	small finds
	Material	cu alloy (copper)		Function	straight pin, wrapped head	

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)
A010 cu o3 (azurite)
C015 cu o2 (cuprite)
U005 cu (copper)
P050 broken

Identification

115 visual

Storage

40 polyethylene bag

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100940	Unassigned	D	515	00094	2	small finds
	Material	cu alloy (copper)		Function	jew's harp	

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)

A010 cu o3 (azurite)

U005 cu (copper)

H005 nantokite

C015 cu o2 (cuprite)

Identification

115 visual

Storage

40 polyethylene bag

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100047	Unassigned	D	515	00099	1	small finds
	Material	cu alloy (copper)		Function	button	

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)

C015 cu o2 (cuprite)

A010 cu o3 (azurite)

P135 encrusted

U005 cu (copper)

Identification

115 visual

Storage

40 polyethylene bag

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100053	Unassigned	D	515	00099	2	small finds
	Material	tortoise shell		Function	hair comb, ornament	

Identification

115 visual

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100050	Unassigned	D	515	00099	3	small finds
	Material	cu alloy (copper)		Function	tack	

Condition

A005 cu o2 ca co3 (malachite)

A010 cu o3 (azurite)

C015 cu o2 (cuprite)

P135 encrusted

U005 cu (copper)

Identification

115 visual

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100051	Unassigned	D	515	00099	4	small finds
	Material	cu alloy (copper)		Function	tack	

Condition

A005 cu o2 ca co3 (malachite)

A010 cu o3 (azurite)

C015 cu o2 (cuprite)

P135 encrusted

U005 cu (copper)

Identification

115 visual

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100939	Unassigned	D	515	00101	1	unassigned
	Material	cu alloy (copper)		Function	America - two cent piece	

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)

C015 cu o2 (cuprite)

A010 cu o3 (azurite)

U005 cu (copper)

P135 encrusted

Identification

115 visual

Storage

40 polyethylene bag

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100630	Unassigned	D	515	00102	1	small finds
	Material	cu alloy (copper)		Function	function unknown	

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)

A010 cu o3 (azurite)

C015 cu o2 (cuprite)

P015 good

U005 cu (copper)

Identification

115 visual

Storage

40 polyethylene bag

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100065	Unassigned	D	515	00108	1	small finds
	Material	cu alloy (copper)		Function	button	

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)
 A010 cu o3 (azurite)
 C015 cu o2 (cuprite)
 U005 cu (copper)
 P135 encrusted

Storage

40 polyethylene bag

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
2752	Unassigned	D	515	00140	1	small finds
	Material	bone & ferrous metal		Function	table utensil, unidentified	

Comment

131 conserved

Condition

P105 desiccated
 P110 dirty
 C005 fe o2 (ferrous)
 C010 fe o3 (ferric)

Identification

115 visual

Storage

40 polyethylene bag

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100075	Unassigned	D	515	00142	1	small finds
	Material	cu alloy (copper)		Function	button	

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)
 A010 cu o3 (azurite)
 C015 cu o2 (cuprite)
 P050 broken
 U005 cu (copper)

Identification

115 visual

Storage

40 polyethylene bag

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100560	Unassigned	D	515	00146	1	small finds
	Material	cu alloy (copper)		Function	button	

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)
 A010 cu o3 (azurite)
 C015 cu o2 (cuprite)

P015 good
 U005 cu (copper)

Identification

115 visual

Storage

40 polyethylene bag

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100659	Unassigned	D	515	00146	2	small finds
	Material	cu alloy (copper)		Function	button	

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)
 A010 cu o3 (azurite)
 C015 cu o2 (cuprite)
 P135 encrusted
 U005 cu (copper)
 P050 broken

Identification

115 visual

Storage

40 polyethylene bag

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100037	Unassigned	D	515	00160	1	small finds
	Material	pb (lead)		Function	window caning	

Barrier

PO20 water-based Inralac

Solvent

Percent

0

Cleaner

L20 tap h2o

Solvent

Percent

0

Comment

131 conserved

Condition

A015 pb ca co3 (lead)
 P015 good

Identification

115 visual

Storage

40 polyethylene bag

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100625	Unassigned	D	515	00161	1	small finds
	Material	cu alloy (copper)		Function	button	

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)
 A010 cu o3 (azurite)

C015 cu o2 (cuprite)

P135 encrusted

U005 cu (copper)

Identification

115 visual

Storage

40 polyethylene bag

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
2648	Unassigned	D	515	00166	1	small finds
	Material	cu alloy (copper)		Function	button, outer-garment	

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)

A010 cu o3 (azurite)

C015 cu o2 (cuprite)

U005 cu (copper)

Identification

115 visual

MethodSolventPercent

0

Storage

40 polyethylene bag

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100640	Unassigned	D	515	00166	2	small finds
	Material	cu alloy (copper)		Function	button	

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)

A010 cu o3 (azurite)

C015 cu o2 (cuprite)

P135 encrusted

U005 cu (copper)

Identification

115 visual

Storage

40 polyethylene bag

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
2578	Unassigned	D	515	00191	1	small finds
	Material	bone/faunal		Function	button	

Comment

131 conserved

Condition

P105 desiccated

P115 distorted

Identification

115 visual

Storage

40 polyethylene bag

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
2650	Unassigned	D	515	00208	1	small finds
	Material	cu alloy (copper)		Function	rivet, furniture or hardware related	

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)

A010 cu o3 (azurite)

C015 cu o2 (cuprite)

U005 cu (copper)

Storage

40 polyethylene bag

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100114	Unassigned	D	515	00208	2	small finds
	Material	cu alloy (copper)		Function	washer	

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)

A010 cu o3 (azurite)

C015 cu o2 (cuprite)

U005 cu (copper)

P135 encrusted

Identification

115 visual

Storage

40 polyethylene bag

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
2751	Unassigned	D	515	00208	3	small finds
	Material	sn plate (tin)		Function	button	

Comment

131 conserved

Condition

A025 tin pest

A005 cu o2 ca co3 (malachite)

A010 cu o3 (azurite)

C015 cu o2 (cuprite)

U005 cu (copper)

Identification

115 visual

Storage

45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
2731	Unassigned	D	515	00255	1	small finds
	Material	cu alloy (copper)		Function	button	

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)

A010 cu o3 (azurite)

C015 cu o2 (cuprite)

U005 cu (copper)

P040 abraded surface

Identification

115 visual

Storage

45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
2734	Unassigned	D	515	00255	2	small finds
	Material	cu alloy (copper)		Function	button	

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)

A010 cu o3 (azurite)

C015 cu o2 (cuprite)

U005 cu (copper)

Identification

115 visual

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100107	Unassigned	D	515	00272	1	small finds
	Material	cu alloy (copper)		Function	button	

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)

A010 cu o3 (azurite)

C015 cu o2 (cuprite)

U005 cu (copper)

Identification

115 visual

Storage

40 polyethylene bag

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100109	Unassigned	D	515	00332	1	small finds
	Material	cu alloy (copper)		Function	button	

Condition

A005 cu o2 ca co3 (malachite)

A010 cu o3 (azurite)

C015 cu o2 (cuprite)

U005 cu (copper)

Identification

115 visual

Storage

40 polyethylene bag

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
2653	Unassigned	D	515	00337	1	small finds
	Material	cu alloy (copper)		Function	button	

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)

A010 cu o3 (azurite)

C015 cu o2 (cuprite)

U005 cu (copper)

Identification

115 visual

Storage

40 polyethylene bag

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
2783	Unassigned	D	515	00337	2	small finds
	Material	cu alloy (copper)		Function	button	

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)

A010 cu o3 (azurite)

C015 cu o2 (cuprite)

U005 cu (copper)

Identification

115 visual

Storage

40 polyethylene bag

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
2582	Unassigned	D	515	00337	3	small finds
	Material	bone/faunal		Function	button	

Condition

P105 desiccated

P110 dirty

Identification

115 visual

Storage

40 polyethylene bag

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100088	Unassigned	D	515	00441	1	small finds
	Material	cu alloy (copper)		Function	straight pin, wrapped head	

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)

A010 cu o3 (azurite)

C015 cu o2 (cuprite)

U005 cu (copper)

P050 broken

Identification

115 visual

Method

015 brushed

SolventPercent

0

Storage

40 polyethylene bag

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100945	Unassigned	D	515	00444	2	small finds
	Material	cu alloy (copper)		Function	thimble	

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)

A010 cu o3 (azurite)

C015 cu o2 (cuprite)

U005 cu (copper)

P135 encrusted

Storage

45 polyethylene box

40 polyethylene bag

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100732	Unassigned	D	515	00444	3	small finds
	Material	bone/faunal		Function	finial	

Comment

131 conserved

Condition

P015 good

P080 cracking

Identification

115 visual

Storage

25 ethafoam

45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
2662	Unassigned	D	515	00449	1	small finds
	Material	cu alloy (copper)		Function	cuff links	

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)

A010 cu o3 (azurite)

C015 cu o2 (cuprite)

U005 cu (copper)

Identification

115 visual

Storage

40 polyethylene bag

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100724	Unassigned	D	515	00449	2	small finds
	Material	bone/faunal		Function	function unknown	

Comment

131 conserved

Condition

P015 good

P050 broken

Identification

115 visual

Storage

25 ethafoam

45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
2663	Unassigned	D	515	00456	1	small finds
	Material	cu alloy (copper)		Function	button	

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)

A010 cu o3 (azurite)

C015 cu o2 (cuprite)

U005 cu (copper)

Identification

115 visual

Storage

40 polyethylene bag

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100700	Unassigned	D	515	00456	2	small finds
	Material	bone & ferrous metal		Function	table knife	

Barrier

B015 hot wax

SolventPercent

0

Cleaner

B05 70% ethanol

SolventPercent

0

Comment

131 conserved

Condition

P010 excellent

U015 fe (ferric)

Consolidant

C005 micro-crystalline wax - hot wax

SolventPercent

0

Identification

115 visual

Storage

25 ethafoam

45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
2732	Unassigned	D	515	00464	1	small finds
	Material	cu alloy (copper)		Function	America - Confederation Period - Fugio cent	

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)

A010 cu o3 (azurite)

C015 cu o2 (cuprite)

U005 cu (copper)

Identification

115 visual

Storage

40 polyethylene bag

45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100937	Unassigned	D	515	00464	1	small finds
	Material	cu alloy (copper)		Function	coin, unidentifiable	

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)

A010 cu o3 (azurite)

C015 cu o2 (cuprite)

U005 cu (copper)

Identification

115 visual

Storage

40 polyethylene bag

45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100632	Unassigned	D	515	00464	2	small finds
	Material	cu alloy (copper)		Function	button	

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)

A010 cu o3 (azurite)

C015 cu o2 (cuprite)

U005 cu (copper)

Identification

115 visual

Storage

40 polyethylene bag

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100112	Unassigned	D	515	00478	1	small finds
	Material	cu alloy (copper)		Function	eye	

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)

A010 cu o3 (azurite)

C015 cu o2 (cuprite)

U005 cu (copper)

Identification

115 visual

Storage

40 polyethylene bag

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100056	Unassigned	D	515	00480	1	small finds
	Material	cu alloy (copper)		Function	Great Britain - George II penny, tuppence, thruppence, or groat	

Comment

131 conserved

Condition

P015 good

A005 cu o2 ca co3 (malachite)

A010 cu o3 (azurite)

C015 cu o2 (cuprite)

U005 cu (copper)

Identification

115 visual

Storage

40 polyethylene bag

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
2587	Unassigned	D	515	00491	1	small finds
	Material	cu alloy (copper)		Function	cuff links	

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)

A010 cu o3 (azurite)

C015 cu o2 (cuprite)

U005 cu (copper)

Identification

115 visual

Storage

40 polyethylene bag

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
2727	Unassigned	D	515	00497	1	small finds
	Material	cu alloy (copper)		Function	button	

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)

A010 cu o3 (azurite)

C015 cu o2 (cuprite)

U005 cu (copper)

Identification

115 visual

Storage

40 polyethylene bag

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100546	Unassigned	D	515	00497	2	small finds
	Material	cu alloy (copper)		Function	lock hardware	

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)

A010 cu o3 (azurite)

C015 cu o2 (cuprite)

U005 cu (copper)

Identification

115 visual

Storage

40 polyethylene bag

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100756	Unassigned	D	515	00512	1	small finds
	Material	fe (iron)		Function	misc. tool	

Comment

131 conserved

Condition

C005 fe o2 (ferrous)

C010 fe o3 (ferric)

Identification

115 visual

Storage

40 polyethylene bag

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
2754	Unassigned	D	515	00524	1	small finds
	Material	cu alloy (copper)		Function	button	

Condition

A005 cu o2 ca co3 (malachite)

A010 cu o3 (azurite)

C015 cu o2 (cuprite)

U005 cu (copper)

Identification

115 visual

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
2666	Unassigned	E	025	00495	1	small finds
	Material	bone/faunal		Function	button	

Comment

131 conserved

Condition

P105 desiccated

P110 dirty

Identification

115 visual

Storage

40 polyethylene bag

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
2764	Unassigned	E	025	00495	2	small finds
	Material	cu alloy (copper)		Function	shoe buckle	

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)

A010 cu o3 (azurite)

C005 fe o2 (ferrous)

U005 cu (copper)

Identification

115 visual

Storage

40 polyethylene bag

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
2667	Unassigned	E	025	00495	3	small finds
	Material	cu alloy (copper)		Function	tack	

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)

A010 cu o3 (azurite)

C015 cu o2 (cuprite)

U005 cu (copper)

Identification

115 visual

Storage

40 polyethylene bag

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
2786	Unassigned Material	E cu alloy (copper)	025	00495	4	small finds
				Function	America - Confederation Period - Connecticut copper	

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)

A010 cu o3 (azurite)

C015 cu o2 (cuprite)

U005 cu (copper)

Identification

115 visual

Storage

40 polyethylene bag

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100771	Unassigned Material	E cu alloy (copper)	025	00495	5	small finds
				Function	buckles	

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)

A010 cu o3 (azurite)

C015 cu o2 (cuprite)

U005 cu (copper)

Identification

115 visual

Storage

40 polyethylene bag

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
2671	Unassigned Material	E cu alloy (copper)	025	00541	1	small finds
				Function	tack	

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)

A010 cu o3 (azurite)

C015 cu o2 (cuprite)

U005 cu (copper)

Identification

115 visual

Storage

40 polyethylene bag

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100944	Unassigned	E	511	00415	1	small finds
	Material	cu alloy (copper)		Function	America - Confederation Period - New Jersey	copper

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)

A010 cu o3 (azurite)

C015 cu o2 (cuprite)

U005 cu (copper)

Identification

115 visual

Storage

40 polyethylene bag

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100602	Unassigned	E	511	00415	1	small finds
	Material	cu alloy (copper)		Function	coin, unidentifiable	

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)

A010 cu o3 (azurite)

C015 cu o2 (cuprite)

U005 cu (copper)

Identification

115 visual

Storage

40 polyethylene bag

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100036	Unassigned	E	518	00197	1	small finds
	Material	cu alloy (copper)		Function	button	

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)

A010 cu o3 (azurite)

C015 cu o2 (cuprite)

U005 cu (copper)

Identification

115 visual

Storage

40 polyethylene bag

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100094	Unassigned	E	518	00197	2	small finds
	Material	cu alloy (copper)		Function	straight pin, unidentifiable	

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)

A010 cu o3 (azurite)

C015 cu o2 (cuprite)

U005 cu (copper)

Identification

115 visual

Storage

40 polyethylene bag

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100707	Unassigned	E	518	00197	3	small finds
	Material	bone & ferrous metal		Function	table knife	

Adhesive

P005 50% b-72 (hmg)

SolventPercent

0

Cleaner

B05 70% ethanol

SolventPercent

0

Comment

131 conserved

Condition

C005 - fe o2 (ferrous)

C010 fe o3 (ferric)

P105 desiccated

P110 dirty

Consolidant

C005 micro-crystalline wax - hot wax

SolventPercent

0

Identification

115 visual

Storage

25 ethafoam

45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100653	Unassigned	E	518	00197	4	small finds
	Material	cu alloy (copper)		Function	function unknown	

Comment

131 conserved

Condition

A010 cu o3 (azurite)

A005 cu o2 ca co3 (malachite)

C015 cu o2 (cuprite)

U005 cu (copper)

P110 dirty

Identification

115 visual

Storage

40 polyethylene bag

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
2741	Unassigned	E	518	00217	1	small finds
	Material	bone/faunal		Function	sewing related object, misc.	

Comment

131 conserved

Condition

P105 desiccated

P110 dirty

Identification

115 visual

Storage

40 polyethylene bag

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100780	Unassigned	E	518	00217	2	small finds
	Material	cu alloy (copper)		Function	coin, unidentifiable	

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)

A010 cu o3 (azurite)

C015 cu o2 (cuprite)

U005 cu (copper)

P015 good

Identification

115 visual

Storage

40 polyethylene bag

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100108	Unassigned	E	518	00293	1	small finds
	Material	cu alloy (copper)		Function	button	

Comment

131 conserved

Condition

A010 cu o3 (azurite)

A005 cu o2 ca co3 (malachite)

C015 cu o2 (cuprite)

U005 cu (copper)

Identification

115 visual

Storage

40 polyethylene bag

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100556	Unassigned	E	518	00314	1	small finds
	Material	cu alloy (copper)		Function	button	

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)
 A010 cu o3 (azurite)
 C015 cu o2 (cuprite)
 P015 good
 U005 cu (copper)

Identification

115 visual

Storage

40 polyethylene bag

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100631	Unassigned	E	518	00338	1	small finds
	Material	cu alloy (copper)		Function	tack	

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)
 A010 cu o3 (azurite)
 C015 cu o2 (cuprite)
 P135 encrusted
 U005 cu (copper)

Identification

115 visual

Storage

40 polyethylene bag

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
2654	Unassigned	E	518	00339	1	small finds
	Material	bone/faunal		Function	button	

Comment

131 conserved

Condition

P105 desiccated
 P110 dirty

Identification

115 visual

Storage

40 polyethylene bag

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100265	Unassigned	E	518	00339	2	small finds
	Material	ag alloy (silver)		Function	Mexico - half real	

Comment

131 conserved

Condition

P175 oxidized
 U030 tarnish
 B045 sulphide deposits

Identification

115 visual

Storage

40 polyethylene bag

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100104	Unassigned	E	518	00339	3	small finds
	Material	cu alloy (copper)		Function	button	

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)

A010 cu o3 (azurite)

C015 cu o2 (cuprite)

U005 cu (copper)

Identification

115 visual

Storage

40 polyethylene bag

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100105	Unassigned	E	518	00339	4	small finds
	Material	cu alloy (copper)		Function	button	

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)

A010 cu o3 (azurite)

C015 cu o2 (cuprite)

U005 cu (copper)

Identification

115 visual

Storage

40 polyethylene bag

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100588	Unassigned	E	518	00339	5	small finds
	Material	cu alloy (copper)		Function	straight pin, wrapped head	

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)

A010 cu o3 (azurite)

C015 cu o2 (cuprite)

P010 excellent

U005 cu (copper)

Identification

115 visual

Storage

40 polyethylene bag

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100722	Unassigned	E	518	00339	6	small finds
	Material	bone/faunal		Function	button	

Comment

131 conserved

Condition

P010 excellent

Identification

115 visual

Storage

25 ethafoam

45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100757	Unassigned	E	518	00340	1	small finds
	Material	cu alloy (copper)		Function	function unknown	

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)

A010 cu o3 (azurite)

C015 cu o2 (cuprite)

P135 encrusted

P050 broken

U005 cu (copper)

Identification

115 visual

Storage

40 polyethylene bag

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
2655	Unassigned	E	518	00342	1	small finds
	Material	bone/faunal		Function	button	

Comment

131 conserved

Condition

P105 desiccated

P110 dirty

Identification

115 visual

Storage

40 polyethylene bag

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
2656	Unassigned	E	518	00342	2	small finds
	Material	bone/faunal		Function	button	

Comment

131 conserved

Identification

115 visual

Storage

40 polyethylene bag

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100655	Unassigned	E	518	00342	3	small finds
	Material	cu alloy (copper)		Function	function unknown	

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)

A010 cu o3 (azurite)

C015 cu o2 (cuprite)

P110 dirty

U005 cu (copper)

Identification

115 visual

Storage

40 polyethylene bag

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100636	Unassigned	E	518	00342	4	small finds
	Material	cu alloy (copper)		Function	straight pin, wrapped head	

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)

A010 cu o3 (azurite)

C015 cu o2 (cuprite)

U005 cu (copper)

Identification

115 visual

Storage

40 polyethylene bag

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100773	Unassigned	E	518	00356	1	small finds
	Material	fe (iron)		Function	function unknown	

Comment

131 conserved

Condition

C005 fe o2 (ferrous)

C010 fe o3 (ferric)

Identification

115 visual

Storage

40 polyethylene bag

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100936	Unassigned	E	518	00375	1	small finds
	Material	bone & ferrous metal		Function	table knife	

Comment

131 conserved

Condition

P010 excellent

P050 broken

C005 fe o2 (ferrous)

Storage

25 ethafoam

45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100730	Unassigned	E	518	00375	2	small finds
	Material	bone/faunal		Function	button	

Comment

131 conserved

Condition

P020 fair

P050 broken

Identification

115 visual

Storage

25 ethafoam

45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100575	Unassigned	E	518	00394	1	small finds
	Material	cu alloy (copper)		Function	button	

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)

A010 cu o3 (azurite)

C015 cu o2 (cuprite)

P015 good

U005 cu (copper)

Identification

115 visual

Storage

40 polyethylene bag

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
2673	Unassigned	E	518	00395	1	small finds
	Material	bone/faunal		Function	button	

Comment

131 conserved

Condition

P105 desiccated

P110 dirty

Identification

115 visual

Storage

40 polyethylene bag

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100091	Unassigned	E	518	00395	2	small finds
	Material	cu alloy (copper)		Function	tack	

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)

A010 cu o3 (azurite)

C015 cu o2 (cuprite)

U005 cu (copper)

Identification

115 visual

Storage

40 polyethylene bag

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100064	Unassigned	E	518	00405	1	small finds
	Material	cu alloy (copper)		Function	button	

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)

A010 cu o3 (azurite)

C015 cu o2 (cuprite)

U005 cu (copper)

Identification

115 visual

Storage

40 polyethylene bag

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100739	Unassigned	E	518	00405	2	small finds
	Material	cu alloy (copper)		Function	unident obj	

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)

A010 cu o3 (azurite)

C015 cu o2 (cuprite)

P015 good

U005 cu (copper)

P050 broken

Identification

115 visual

Storage

40 polyethylene bag

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
2716	Unassigned	E	518	00416	1	small finds
	Material	cu alloy (copper)		Function	misc. personal object (see written cmts)	

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)

A010 cu o3 (azurite)

C015 cu o2 (cuprite)

U005 cu (copper)

Identification

115 visual

Storage

40 polyethylene bag

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100110	Unassigned	E	518	00424	1	small finds
	Material	cu alloy (copper)		Function	button	

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)

A010 cu o3 (azurite)

C015 cu o2 (cuprite)

U005 cu (copper)

Identification

115 visual

Storage

40 polyethylene bag

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100604	Unassigned	E	518	00424	2	small finds
	Material	cu alloy (copper)		Function	cuff links	

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)

A010 cu o3 (azurite)

C015 cu o2 (cuprite)

U005 cu (copper)

Identification

115 visual

Storage

40 polyethylene bag

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100111	Unassigned	E	518	00468	1	small finds
	Material	cu alloy (copper)		Function	button	

Comment

131 conserved

Condition

A010 cu o3 (azurite)

A005 cu o2 ca co3 (malachite)

C015 cu o2 (cuprite)

U005 cu (copper)

Identification

115 visual

Storage

40 polyethylene bag

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
2664	Unassigned	E	518	00468	2	small finds
	Material	pb (lead)		Function	window caning	

Comment

131 conserved

Condition

A025 tin pest

Identification

115 visual

Storage

40 polyethylene bag

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
2203	Unassigned	E	518	00493	1	small finds
	Material	cu alloy (copper)		Function	tack, upholstery	

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)

A010 cu o3 (azurite)

C015 cu o2 (cuprite)

U005 cu (copper)

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
2669	Unassigned	E	518	00521	1	small finds
	Material	cu alloy (copper)		Function	wire, miscellaneous	

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)

A010 cu o3 (azurite)

C015 cu o2 (cuprite)

U005 cu (copper)

Identification

115 visual

Storage

40 polyethylene bag

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100596	Unassigned Material	E cu alloy (copper)	518	00521 Function	2 tack	small finds

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)

A010 cu o3 (azurite)

C015 cu o2 (cuprite)

U005 cu (copper)

Identification

115 visual

Storage

40 polyethylene bag

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100029	Unassigned Material	E cu alloy (copper)	518	00526 Function	1 button	small finds

Condition

A005 cu o2 ca co3 (malachite)

A010 cu o3 (azurite)

C015 cu o2 (cuprite)

U005 cu (copper)

Identification

115 visual

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100150	Unassigned Material	E cu alloy (copper)	518	00652 Function	1 tack	small finds

Comment

131 conserved

Condition

P050 broken

A005 cu o2 ca co3 (malachite)

A010 cu o3 (azurite)

C015 cu o2 (cuprite)

U005 cu (copper)

Identification

115 visual

Storage

45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
2681	Unassigned Material	E bone/faunal	518	00670 Function	1 button	small finds

Comment

131 conserved

Condition

P105 desiccated

P110 dirty

Identification

115 visual

Storage

40 polyethylene bag

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100532	Unassigned	E	518	00731	1	small finds
	Material	cu alloy (copper)		Function	button	

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)

A010 cu o3 (azurite)

C015 cu o2 (cuprite)

U005 cu (copper)

Identification

115 visual

Storage

40 polyethylene bag

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
2600	Unassigned	E	518	00731	2	small finds
	Material	bone/faunal		Function	button	

Comment

131 conserved

Condition

P105 desiccated

P110 dirty

Identification

110 ultraviolet light-long wave

Storage

40 polyethylene bag

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100154	Unassigned	E	518	00731	3	small finds
	Material	cu alloy (copper)		Function	tack	

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)

A010 cu o3 (azurite)

C015 cu o2 (cuprite)

P015 good

U005 cu (copper)

Identification

115 visual

Storage

40 polyethylene bag

45 polyethylene box

Conserve ID 2207	Feature Unassigned Material	Analytical Stratum E cu alloy (copper)	Analytical Unit 518	Catalog No. 00737 Function	Conserve No. 1 thimble	Object Type small finds
<u>Comment</u>						
131	conserved					
<u>Condition</u>						
A005	cu o2 ca co3 (malachite)					
A010	cu o3 (azurite)					
C015	cu o2 (cuprite)					
U005	cu (copper)					

Conserve ID 2723	Feature Unassigned Material	Analytical Stratum F cu alloy (copper)	Analytical Unit 518	Catalog No. 00190 Function	Conserve No. 1 button	Object Type small finds
<u>Comment</u>						
131	conserved					
<u>Condition</u>						
A005	cu o2 ca co3 (malachite)					
A010	cu o3 (azurite)					
C015	cu o2 (cuprite)					
U005	cu (copper)					

<u>Identification</u>						
115	visual					
<u>Storage</u>						
40	polyethylene bag					

Conserve ID 2649	Feature Unassigned Material	Analytical Stratum F bone/faunal	Analytical Unit 518	Catalog No. 00190 Function	Conserve No. 2 button	Object Type small finds
<u>Comment</u>						
131	conserved					
<u>Condition</u>						
P105	desiccated					
P110	dirty					
<u>Identification</u>						
115	visual					

Conserve ID 100903	Feature Unassigned Material	Analytical Stratum F cu alloy (copper)	Analytical Unit 518	Catalog No. 00190 Function	Conserve No. 3 button	Object Type small finds
<u>Comment</u>						
131	conserved					
<u>Condition</u>						
A005	cu o2 ca co3 (malachite)					
A010	cu o3 (azurite)					
C015	cu o2 (cuprite)					
U005	cu (copper)					
<u>Identification</u>						
115	visual					
<u>Storage</u>						

25 ethafoam

45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100096	Unassigned	F	518	00220	1	small finds
	Material	cu alloy (copper)		Function	button	

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)

A010 cu o3 (azurite)

C015 cu o2 (cuprite)

U005 cu (copper)

Identification

115 visual

Storage

40 polyethylene bag

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100097	Unassigned	F	518	00220	2	small finds
	Material	bone/faunal		Function	button	

Comment

131 conserved

Condition

P015 good

P120 discoloration

P161 misshapen

Identification

115 visual

Storage

45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100774	Unassigned	F	518	00220	3	small finds
	Material	bone & ferrous metal		Function	pocket knife	

Comment

131 conserved

Condition

C005 fe o2 (ferrous)

C010 fe o3 (ferric)

P050 broken

Identification

115 visual

Storage

40 polyethylene bag

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100076	Unassigned	F	519	00222	2	small finds
	Material	cu alloy (copper)		Function	button	

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)
 A010 cu o3 (azurite)
 C015 cu o2 (cuprite)
 P135 encrusted
 U005 cu (copper)

Identification

115 visual

Storage

40 polyethylene bag

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100673	Unassigned	F	519	00222	3	small finds
	Material	cu alloy (copper)		Function	straight pin, unidentifiable	

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)
 A010 cu o3 (azurite)
 C015 cu o2 (cuprite)
 U005 cu (copper)
 P135 encrusted

ConsolidantSolventPercent

0
0
0

Identification

115 visual

Storage

40 polyethylene bag

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100595	Unassigned	F	519	00222	4	small finds
	Material	cu alloy (copper)		Function	tack	

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)
 A010 cu o3 (azurite)
 C015 cu o2 (cuprite)
 P015 good
 U005 cu (copper)

Identification

115 visual

Storage

40 polyethylene bag

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100657	Unassigned	F	519	00283	1	small finds
	Material	bone/faunal		Function	button back	

Comment

131 conserved

Condition

P045 brittle

P100 dehydrated

P110 dirty

Identification

115 visual

Storage

40 polyethylene bag

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100599	Unassigned	F	519	00283	2	small finds
	Material	cu alloy (copper)		Function	tack	

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)

A010 cu o3 (azurite)

C015 cu o2 (cuprite)

P135 encrusted

P050 broken

U005 cu (copper)

Identification

115 visual

Storage

40 polyethylene bag

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100649	Unassigned	F	519	00283	3	small finds
	Material	cu alloy (copper)		Function	button	

Comment

131 conserved

Condition

P045 brittle

P100 dehydrated

P110 dirty

A005 cu o2 ca co3 (malachite)

A010 cu o3 (azurite)

C015 cu o2 (cuprite)

Identification

115 visual

Storage

40 polyethylene bag

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
2712	Unassigned Material	F cu alloy (copper)	519	00362 Function	1 button	small finds

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)

A010 cu o3 (azurite)

C015 cu o2 (cuprite)

U005 cu (copper)

Identification

115 visual

Storage

40 polyethylene bag

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100060	Unassigned Material	F cu alloy (copper)	519	00362 Function	2 button	small finds

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)

A010 cu o3 (azurite)

C015 cu o2 (cuprite)

U005 cu (copper)

P050 broken

Identification

115 visual

Storage

40 polyethylene bag

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100670	Unassigned Material	F cu alloy (copper)	519	00362 Function	3 nail, square cut	small finds

Condition

A005 cu o2 ca co3 (malachite)

A010 cu o3 (azurite)

C015 cu o2 (cuprite)

U005 cu (copper)

Identification

115 visual

Storage

40 polyethylene bag

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100717	Unassigned Material	F bone/faunal	519	00362 Function	4 function unknown	small finds

Comment

131 conserved

Condition

P015 good

P050 broken

P080 cracking

Identification

115 visual

Storage

25 ethafoam

45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
2583	Unassigned	F	519	00365	1	small finds
	Material	bone/faunal		Function	button	

Comment

131 conserved

Condition

P105 desiccated

P110 dirty

Identification

115 visual

Storage

40 polyethylene bag

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
2200	Unassigned	F	519	00388	1	small finds
	Material	cu alloy (copper)		Function	straight pin, wrapped head	

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)

A010 cu o3 (azurite)

C015 cu o2 (cuprite)

U005 cu (copper)

Storage

40 polyethylene bag

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
2670	Unassigned	F	519	00538	1	small finds
	Material	cu alloy (copper)		Function	eye	

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)

A010 cu o3 (azurite)

C015 cu o2 (cuprite)

U005 cu (copper)

Identification

115 visual

Storage

40 polyethylene bag

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
2204	Unassigned	F	519	00538	2	small finds
	Material	cu alloy (copper)		Function	pull/drawer pull	

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)

A010 cu o3 (azurite)

C015 cu o2 (cuprite)

H005 nantokite

U005 cu (copper)

Identification

115 visual

Storage

40 polyethylene bag

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100067	Unassigned	F	519	00538	3	small finds
	Material	cu alloy (copper)		Function	unident obj	

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)

A010 cu o3 (azurite)

C015 cu o2 (cuprite)

U005 cu (copper)

Identification

115 visual

Storage

40 polyethylene bag

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100218	Unassigned	F	519	00538	4	small finds
	Material	flint		Function	firestarter	

Cleaner

L05 soak

SolventPercent

0

Comment

131 conserved

Condition

P050 broken

P070 concretions

Identification

115 visual

Storage

40 polyethylene bag

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100955	Unassigned	F	519	00538	5	small finds
	Material	cu alloy (copper)		Function	function unknown	

Comment

131 conserved

Condition

P015 good

P155 fragmented

Identification

115 visual

Method

110 scalpel

SolventPercent

0

Storage

40 polyethylene bag

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100579	Unassigned	F	519	00547	1	small finds
	Material	cu alloy (copper)		Function	straight pin, unidentifiable	

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)

A010 cu o3 (azurite)

C015 cu o2 (cuprite)

U005 cu (copper)

P050 broken

Identification

115 visual

Storage

40 polyethylene bag

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100039	Unassigned	F	519	00547	2	small finds
	Material	wood & copper alloy		Function	button	

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)

A010 cu o3 (azurite)

C015 cu o2 (cuprite)

P050 broken

P095 crumbling

U005 cu (copper)

Identification

115 visual

Storage

45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100116	Unassigned	F	519	00558	1	small finds
	Material	cu alloy (copper)		Function	chain	

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)

A010 cu o3 (azurite)

C015 cu o2 (cuprite)

U005 cu (copper)

Identification

115 visual

Storage

40 polyethylene bag

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
2677	Unassigned	F	519	00558	2	small finds
	Material	bone/faunal		Function	button	

Comment

131 conserved

Condition

P105 desiccated

P110 dirty

Identification

115 visual

Storage

40 polyethylene bag

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
2206	Unassigned	F	519	00623	1	small finds
	Material	cu alloy (copper)		Function	thimble	

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)

A010 cu o3 (azurite)

C015 cu o2 (cuprite)

H005 nantokite

Identification

115 visual

Storage

40 polyethylene bag

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100633	Unassigned	F	519	00623	2	small finds
	Material	cu alloy (copper)		Function	button	

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)

A010 cu o3 (azurite)
 C015 cu o2 (cuprite)
 U005 cu (copper)

Identification

115 visual

Storage

45 polyethylene box
 25 ethafoam

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100668	Unassigned	F	519	00664	1	small finds
	Material	cu alloy (copper)		Function	button	

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)
 A010 cu o3 (azurite)
 C015 cu o2 (cuprite)
 U005 cu (copper)
 P110 dirty

Identification

115 visual

Storage

40 polyethylene bag

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100639	Unassigned	F	519	00664	2	small finds
	Material	cu alloy (copper)		Function	button	

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)
 P105 desiccated
 P045 brittle
 P110 dirty

Identification

115 visual

Storage

40 polyethylene bag

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100669	Unassigned	F	519	00664	4	small finds
	Material	wood & copper alloy		Function	function unknown	

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)
 A010 cu o3 (azurite)
 C015 cu o2 (cuprite)

U005 cu (copper)
 P070 concretions
 P135 encrusted

Identification

115 visual

Storage

40 polyethylene bag

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100624	Unassigned	F	519	00664	5	small finds
	Material	wood & brass		Function	tack	

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)
 A010 cu o3 (azurite)
 C015 cu o2 (cuprite)
 P070 concretions
 P135 encrusted
 U005 cu (copper)

Identification

115 visual

Storage

40 polyethylene bag

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100082	Unassigned	F	519	00664	6	small finds
	Material	pb alloy (lead)		Function	toy cannon/ military equipment	

Cleaner

Y10 3 to 5% bicarbonate of soda

SolventPercent

0

Comment

131 conserved

Condition

A015 pb ca co3 (lead)
 P135 encrusted

Identification

115 visual

Storage

45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100726	Unassigned	F	519	00721	2	small finds
	Material	tortoise shell		Function	fan/parts	

Cleaner

B05 70% ethanol

SolventPercent

0

Comment

131 conserved

Condition

P015 good

P050 broken

Identification

115 visual

Storage

25 ethafoam

45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
2762	Unassigned	F	519	00750	1	small finds
	Material	cu alloy (copper)		Function	straight pin, unidentifiable	

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)

A010 cu o3 (azurite)

C015 cu o2 (cuprite)

U005 cu (copper)

Identification

115 visual

Storage

40 polyethylene bag

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100592	Unassigned	F	519	00757	1	small finds
	Material	cu alloy (copper)		Function	unident obj	

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)

A010 cu o3 (azurite)

C015 cu o2 (cuprite)

U005 cu (copper)

Identification

115 visual

Storage

40 polyethylene bag

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
2579	Unassigned	F	519	01626	1	small finds
	Material	bone/faunal		Function	button	

Comment

131 conserved

Condition

P105 desiccated

P110 dirty

Identification

115 visual

Storage

40 polyethylene bag

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100942	Unassigned	F	519	01626	2	small finds
	Material	cu alloy (copper)		Function	straight pin, unidentifiable	

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)

A010 cu o3 (azurite)

C015 cu o2 (cuprite)

U005 cu (copper)

P070 concretions

Identification

115 visual

Storage

40 polyethylene bag

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100751	Unassigned	G	001B	00565	1	small finds
	Material	glass		Function	seed bead	

Comment

131 conserved

Condition

P010 excellent

Identification

115 visual

055 microscope

Storage

40 polyethylene bag

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
2668	Unassigned	G	002B	00496	1	small finds
	Material	bone/faunal		Function	button	

Comment

131 conserved

Condition

P105 desiccated

P110 dirty

Identification

115 visual

Storage

40 polyethylene bag

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100031	Unassigned	G	003B	00546	1	small finds
	Material	cu alloy (copper)		Function	button	

Condition

A005 cu o2 ca co3 (malachite)

A010 cu o3 (azurite)

C015 cu o2 (cuprite)

U005 cu (copper)

P015 good

Identification

115 visual

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100656	Unassigned	G	051	00671	1	small finds
	Material	bone/faunal		Function	button	

Comment

131 conserved

Condition

P045 brittle

P105 desiccated

P110 dirty

Identification

115 visual

Storage

40 polyethylene bag

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100667	Unassigned	G	051	00671	2	small finds
	Material	cu alloy (copper)		Function	function unknown	

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)

A010 cu o3 (azurite)

C015 cu o2 (cuprite)

U005 cu (copper)

P050 broken

Identification

115 visual

Storage

40 polyethylene bag

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100643	Unassigned	G	051	00689	1	small finds
	Material	cu alloy (copper)		Function	function unknown	

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)

A010 cu o3 (azurite)

C015 cu o2 (cuprite)

U005 cu (copper)

P110 dirty

Identification

115 visual

Storage

40 polyethylene bag

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100652	Unassigned	G	051	00712	1	small finds
	Material	cu alloy (copper)		Function	straight pin, wrapped head	

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)

A010 cu o3 (azurite)

C015 cu o2 (cuprite)

P050 broken

U005 cu (copper)

Identification

115 visual

Storage

40 polyethylene bag

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100620	Unassigned	G	051	00727	1	small finds
	Material	cu alloy (copper)		Function	tack	

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)

A010 cu o3 (azurite)

C015 cu o2 (cuprite)

U005 cu (copper)

P070 concretions

Identification

115 visual

Storage

40 polyethylene bag

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100769	Unassigned	G	152	02022	1	small finds
	Material	fe (iron)		Function	hook, furnishings	

Comment

131 conserved

Condition

C005 fe o2 (ferrous)

C010 fe o3 (ferric)

Consolidant

C005 micro-crystalline wax - hot wax

SolventPercent

0

Identification

115 visual

Storage

40 polyethylene bag

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100073	Unassigned	G	154	00608	1	small finds
	Material	cu alloy (copper)		Function	coin, unidentifiable	

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)

A010 cu o3 (azurite)

C015 cu o2 (cuprite)

U005 cu (copper)

P070 concretions

Identification

115 visual

Storage

40 polyethylene bag

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100725	Unassigned	G	154	00608	2	small finds
	Material	copper alloy & iron		Function	buckles	

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)

A010 cu o3 (azurite)

C015 cu o2 (cuprite)

P020 fair

U005 cu (copper)

U015 fe (ferric)

Identification

115 visual

Storage

40 polyethylene bag

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100753	Unassigned	G	154	00608	3	small finds
	Material	bone/faunal		Function	function unknown	

Comment

131 conserved

Condition

P015 good

P050 broken

Identification

115 visual

Storage

25 ethafoam

40 polyethylene bag

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100184	Unassigned	G	163	01715	1	small finds
	Material	cu alloy (copper)		Function	coin, unidentifiable	

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)
 A010 cu o3 (azurite)
 C015 cu o2 (cuprite)
 U005 cu (copper)

Identification

115 visual

Storage

40 polyethylene bag

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100274	Unassigned	I	509	01622	1	small finds
	Material	paper		Function	----	

Cleaner

L15 dei-h2o (deionized water)

SolventPercent

0

Comment

131 conserved

Condition

P095 crumbling
 P105 desiccated

Identification

115 visual

Storage

40 polyethylene bag

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100531	Unassigned	I	509	02017	1	small finds
	Material	fe (iron)		Function	washer	

Comment

131 conserved

Condition

C005 fe o2 (ferrous)
 C010 fe o3 (ferric)

Identification

115 visual

Storage

40 polyethylene bag

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
2730	Unassigned	I	509	02020	1	small finds
	Material	fe (iron)		Function	unident obj	

Comment

131 conserved

Condition

C005 fe o2 (ferrous)
 C010 fe o3 (ferric)

Identification

115 visual

Storage

40 polyethylene bag

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100755	Unassigned Material fe (iron)	I	509	02037	1	small finds
				Function	function unknown	

Comment

131 conserved

Condition

C005 fe o2 (ferrous)

C010 fe o3 (ferric)

Identification

115 visual

Storage

40 polyethylene bag

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100587	Unassigned Material cu alloy (copper)	I	510	01510	1	small finds
				Function	straight pin, one piece construction	

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)

A010 cu o3 (azurite)

C015 cu o2 (cuprite)

P050 broken

U005 cu (copper)

Identification

115 visual

Storage

40 polyethylene bag

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
2761	Unassigned Material fe (iron)	I	510	01522	1	small finds
				Function	button	

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)

A010 cu o3 (azurite)

C015 cu o2 (cuprite)

U005 cu (copper)

Identification

115 visual

Storage

40 polyethylene bag

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100269	Unassigned Material bone/faunal	I	510	01522	2	small finds
				Function	button	

Comment

131 conserved

Condition

P050 broken
 P105 desiccated
 P155 fragmented

Identification

115 visual

Storage

40 polyethylene bag

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100540	Unassigned	I	510	01522	3	small finds
	Material	plastic		Function	electrical part, misc.	

Cleaner

B05 70% ethanol

SolventPercent

0

Comment

131 conserved

Condition

P015 good
 P110 dirty
 P050 broken

Identification

115 visual

Storage

40 polyethylene bag

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100644	Unassigned	I	510	01648	1	small finds
	Material	cu alloy (copper)		Function	unident obj	

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)
 A010 cu o3 (azurite)
 C015 cu o2 (cuprite)
 U005 cu (copper)
 H005 nantokite

Identification

115 visual

Storage

40 polyethylene bag

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100533	Unassigned	I	510	01888	1	small finds
	Material	copper alloy & silverplate		Function	button	

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)
 A010 cu o3 (azurite)

C015 cu o2 (cuprite)

U005 cu (copper)

Identification

115 visual

Storage

40 polyethylene bag

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
2770	Unassigned	I	510	02012	1	small finds
	Material	plastic		Function	unident obj	

Comment

999 see written comments

143 washed and labeled

Condition

P050 broken

Identification

115 visual

Storage

45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100057	Unassigned	I	511	00121	1	small finds
	Material	cu alloy (copper)		Function	button	

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)

A010 cu o3 (azurite)

C015 cu o2 (cuprite)

H005 nantokite

P015 good

U005 cu (copper)

Identification

115 visual

Storage

40 polyethylene bag

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
2660	Unassigned	I	511	00380	1	small finds
	Material	ag plated (silver)		Function	button	

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)

A010 cu o3 (azurite)

P050 broken

U030 tarnish

Identification

115 visual

Storage

45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100352	Unassigned	I	511	01720	1	small finds
	Material	cu alloy (copper)		Function	America - small cent - flying eagle	

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)

A010 cu o3 (azurite)

C015 cu o2 (cuprite)

U005 cu (copper)

Identification

115 visual

Storage

40 polyethylene bag

45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100786	Unassigned	I	511	01944	1	small finds
	Material	pb (lead)		Function	musket ball	

Comment

131 conserved

Condition

P015 good

A015 pb ca co3 (lead)

C020 pb o2 (lead)

Identification

115 visual

Storage

25 ethafoam

45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
2657	Unassigned	I	511	02224	1	small finds
	Material	ag plated (silver)		Function	button	

Comment

131 conserved

Identification

115 visual

Storage

40 polyethylene bag

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
2756	Unassigned	I	511	02224	5	small finds
	Material	cu alloy (copper)		Function	straight pin, one piece construction	

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)

A010 cu o3 (azurite)
 C015 cu o2 (cuprite)
 U005 cu (copper)
 P050 broken

Identification

115 visual

Storage

45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
2719	Unassigned	K	520	00452	1	small finds
	Material	cu alloy (copper)		Function	household, misc.	

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)
 A010 cu o3 (azurite)
 C015 cu o2 (cuprite)
 U005 cu (copper)

Identification

115 visual

Storage

40 polyethylene bag

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100946	Unassigned	K	520	00452	2	small finds
	Material	bone/faunal		Function	function unknown	

Comment

131 conserved

Condition

P015 good
 P050 broken

Identification

115 visual

Storage

25 ethafoam

45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100552	Unassigned	K	520	00484	1	small finds
	Material	cu alloy (copper)		Function	buckles	

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)
 A010 cu o3 (azurite)
 C015 cu o2 (cuprite)
 U005 cu (copper)

Identification

115 visual

Storage

40 polyethylene bag

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100948	Unassigned	K	520	00529	1	small finds
	Material	antler		Function	handle, miscellaneous	

Comment

131 conserved

Condition

P010 excellent

P050 broken

Identification

115 visual

Storage

25 ethafoam

45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100736	Unassigned	K	520	00529	2	small finds
	Material	bone/faunal		Function	function unknown	

Comment

131 conserved

Condition

P015 good

P050 broken

Identification

115 visual

Storage

25 ethafoam

45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100737	Unassigned	K	520	00529	3	small finds
	Material	cu alloy (copper)		Function	function unknown	

Comment

131 conserved

Condition

P020 fair

P050 broken

P110 dirty

Identification

115 visual

Storage

40 polyethylene bag

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100651	Unassigned	K	520	00551	1	small finds
	Material	cu alloy (copper)		Function	function unknown	

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)
 A010 cu o3 (azurite)
 C015 cu o2 (cuprite)
 U005 cu (copper)

Identification

115 visual

Storage

40 polyethylene bag

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100749	Unassigned	K	520	00580	1	small finds
	Material	cu alloy (copper)		Function	cuff links	

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)
 A010 cu o3 (azurite)
 C015 cu o2 (cuprite)
 U005 cu (copper)

Identification

115 visual

Storage

25 ethafoam

45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100642	Unassigned	K	520	00580	2	small finds
	Material	cu alloy (copper)		Function	straight pin, wrapped head	

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)
 A010 cu o3 (azurite)
 C015 cu o2 (cuprite)
 U005 cu (copper)

Identification

115 visual

Storage

25 ethafoam

45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100098	Unassigned	K	520	00591	1	small finds
	Material	cu alloy (copper)		Function	buckles	

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)

A010 cu o3 (azurite)
 C015 cu o2 (cuprite)
 U005 cu (copper)
 P110 dirty

Identification

115 visual

Storage

40 polyethylene bag

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100782	Unassigned	K	520	00591	2	small finds
	Material	cu alloy (copper)		Function	button	

Comment

131 conserved

Condition

U005 cu (copper)
 A005 cu o2 ca co3 (malachite)
 A010 cu o3 (azurite)
 C015 cu o2 (cuprite)

Identification

005 aa (atomic absorption)

Storage

40 polyethylene bag

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100897	Unassigned	K	520	00591	3	small finds
	Material	cu alloy (copper)		Function	straight pin, wrapped head	

Comment

131 conserved

Condition

A010 cu o3 (azurite)
 A005 cu o2 ca co3 (malachite)
 C015 cu o2 (cuprite)
 U005 cu (copper)
 P050 broken

Identification

115 visual

Storage

25 ethafoam

45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100589	Unassigned	K	520	00607	1	small finds
	Material	cu alloy (copper)		Function	eye	

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)
 A010 cu o3 (azurite)

C015 cu o2 (cuprite)

U005 cu (copper)

P050 broken

Identification

115 visual

Storage

40 polyethylene bag

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
2714	Unassigned	K	520	00609	1	small finds
	Material	cu alloy (copper)		Function	button	

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)

A010 cu o3 (azurite)

C015 cu o2 (cuprite)

U005 cu (copper)

Identification

115 visual

Storage

40 polyethylene bag

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
2679	Unassigned	K	520	00609	2	small finds
	Material	bone/faunal		Function	button	

Comment

131 conserved

Condition

P105 desiccated

P110 dirty

Identification

115 visual

Storage

40 polyethylene bag

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100118	Unassigned	K	520	00610	1	small finds
	Material	cu alloy (copper)		Function	coin, unidentifiable	

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)

A010 cu o3 (azurite)

C015 cu o2 (cuprite)

U005 cu (copper)

Identification

115 visual

Storage

40 polyethylene bag

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
2680	Unassigned Material	K cu alloy (copper)	520	00610 Function	2 thimble	small finds

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)

A010 cu o3 (azurite)

C015 cu o2 (cuprite)

U005 cu (copper)

Identification

115 visual

Storage

40 polyethylene bag

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
2697	Unassigned Material	K bone/faunal	520	01176 Function	1 button	small finds

Comment

131 conserved

Condition

P105 desiccated

P110 dirty

Identification

115 visual

Storage

40 polyethylene bag

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100040	Unassigned Material	L cu alloy (copper)	521	00240 Function	1 America - coin unident	small finds

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)

A010 cu o3 (azurite)

C015 cu o2 (cuprite)

U005 cu (copper)

Identification

115 visual

Storage

40 polyethylene bag

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100092	Unassigned Material	L cu alloy (copper)	521	00747 Function	1 straight pin, unidentifiable	small finds

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)

A010 cu o3 (azurite)

C015 cu o2 (cuprite)

U005 cu (copper)

Identification

115 visual

Storage

40 polyethylene bag

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100738	Unassigned	L	521	01658	1	small finds
	Material	fe (iron)		Function	spike	

Barrier

B015 hot wax

SolventPercent

0

Comment

131 conserved

Condition

C005 fe o2 (ferrous)

C010 fe o3 (ferric)

P050 broken

ConsolidantSolventPercent

C005 micro-crystalline wax - hot wax

0

Identification

115 visual

Storage

40 polyethylene bag

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100185	Unassigned	L	521	01703	1	small finds
	Material	flint		Function	gunflint manufacture	debitage

CleanerSolventPercent

L05 soak

0

Condition

P155 fragmented

Identification

115 visual

Storage

40 polyethylene bag

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100577	Unassigned	L	521	01850	1	small finds
	Material	cu alloy (copper)		Function	straight pin, unidentifiable	

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)

A010 cu o3 (azurite)

C015 cu o2 (cuprite)

U005 cu (copper)

P050 broken

P015 good

Identification

115 visual

Storage

40 polyethylene bag

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
2711	Unassigned	L	521	02015	1	small finds
	Material	cu/sn alloy (brass/bronze)		Function	hardware, decorative	

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)

A010 cu o3 (azurite)

C005 fe o2 (ferrous)

H005 nantokite

U005 cu (copper)

Identification

115 visual

Storage

40 polyethylene bag

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
2771	Unassigned	L	521	02015	2	small finds
	Material	wood		Function	function unknown	

Comment

135 general weathering/wear

Identification

115 visual

Storage

45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100743	Unassigned	L	521	02042	1	small finds
	Material	pb (lead)		Function	lead weight	

Comment

131 conserved

Condition

P015 good

A015 pb ca co3 (lead)

C020 pb o2 (lead)

P185 pitted

Identification

115 visual

Storage

40 polyethylene bag

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
2760	Unassigned Material	L cu alloy (copper)	Unassigned	01590	1	small finds
				Function		Great Britain - George II half penny, young head

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)

A010 cu o3 (azurite)

C015 cu o2 (cuprite)

U005 cu (copper)

Identification

115 visual

Storage

45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100561	Unassigned Material	Unassigned cu alloy (copper)	Unassigned	00016	1	small finds
				Function	button	

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)

A010 cu o3 (azurite)

C015 cu o2 (cuprite)

P015 good

U005 cu (copper)

Identification

115 visual

Storage

40 polyethylene bag

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
2570	Unassigned Material	Unassigned bone & ferrous metal	Unassigned	00026	1	small finds
				Function	kitchen knife	

Comment

131 conserved

Condition

C005 fe o2 (ferrous)

C010 fe o3 (ferric)

P015 good

P075 corroded

P070 concretions

Identification

115 visual

Storage

40 polyethylene bag

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
2574	Unassigned Material	Unassigned mother of pearl	Unassigned	00086 Function	1 button	small finds

Comment

131 conserved

Condition

P105 desiccated

P110 dirty

Identification

115 visual

Storage

40 polyethylene bag

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
2607	Unassigned Material	Unassigned bone/faunal	Unassigned	01176 Function	1 button	small finds

Comment

131 conserved

Condition

P105 desiccated

P110 dirty

Identification

115 visual

Storage

40 polyethylene bag

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
2737	Unassigned Material	Unassigned cu alloy (copper)	Unassigned	Unassigned Function	1 straight pin, unidentifiable	small finds

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)

A010 cu o3 (azurite)

C015 cu o2 (cuprite)

U005 cu (copper)

Identification

115 visual

Storage

45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100720	Unassigned Material	Unassigned bone & ferrous metal	Unassigned	Unassigned Function	1 handle, miscellaneous	small finds

Comment

131 conserved

Condition

P015 good

P050 broken

C005 fe o2 (ferrous)

Identification

115 visual

Storage

25 ethafoam

45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
498	Unassigned	Unassigned	Unassigned	Unassigned	4	architectural
	Material	fe alloy (iron)		Function	----	

Condition

C005 fe o2 (ferrous)

C010 fe o3 (ferric)

P070 concretions

Identification

115 visual

Storage

40 polyethylene bag

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
2639	Unassigned	Unassigned	Unassigned	Unassigned	0	unassigned
	Material	----		Function	----	

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
2665	Unassigned	Unassigned	Unassigned	Unassigned	0	unassigned
	Material	----		Function	----	

Condition

P105 desiccated

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
2744	Unassigned	Unassigned	Unassigned	Unassigned	0	unassigned
	Material	----		Function	----	

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100004	Unassigned	Unassigned	Unassigned	Unassigned	0	unassigned
	Material	----		Function	----	

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100006	Unassigned	Unassigned	Unassigned	Unassigned	0	unassigned
	Material	----		Function	----	

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100008	Unassigned	Unassigned	Unassigned	Unassigned	0	unassigned
	Material	----		Function	----	

Condition

A010 cu o3 (azurite)

C015 cu o2 (cuprite)

A005 cu o2 ca co3 (malachite)

Storage

40 polyethylene bag

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100010	Unassigned	Unassigned	Unassigned	Unassigned	0	unassigned
	Material	----		Function	----	

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100013	Unassigned	Unassigned	Unassigned	Unassigned	0	unassigned
	Material	----		Function	----	

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100017	Unassigned Material ----	Unassigned	Unassigned	Unassigned Function ----	0	unassigned
100529	Unassigned Material ----	Unassigned	Unassigned	Unassigned Function ----	0	unassigned
100580	Unassigned Material ----	Unassigned	Unassigned	Unassigned Function ----	0	unassigned
100660	Unassigned Material ----	Unassigned	Unassigned	Unassigned Function ----	0	unassigned
100734	Unassigned Material ----	Unassigned	Unassigned	Unassigned Function ----	0	unassigned
2755	Unassigned Material cu alloy (copper)	Z	511	02000 Function	1 unident obj	small finds

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)

A010 cu o3 (azurite)

C015 cu o2 (cuprite)

U005 cu (copper)

Identification

115 visual

Storage

45 polyethylene box

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100081	Unassigned Material cu alloy (copper)	zz	026	00361 Function	1 button	small finds

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)

A010 cu o3 (azurite)

U005 cu (copper)

C015 cu o2 (cuprite)

Identification

115 visual

Storage

40 polyethylene bag

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100650	Unassigned Material cu alloy (copper)	zz	026	00361 Function	3 function unknown	small finds

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)
 A010 cu o3 (azurite)
 C015 cu o2 (cuprite)
 U005 cu (copper)
 P110 dirty
 P135 encrusted

Identification

115 visual

Storage

40 polyethylene bag

Conserve ID	Feature	Analytical Stratum	Analytical Unit	Catalog No.	Conserve No.	Object Type
100779	Unassigned	zz	511	01578	1	small finds
	Material	cu alloy (copper)		Function	coin, unidentifiable	

Comment

131 conserved

Condition

A005 cu o2 ca co3 (malachite)
 A010 cu o3 (azurite)
 C015 cu o2 (cuprite)
 U005 cu (copper)

Identification

115 visual

Storage

45 polyethylene box
 25 ethafoam



APPENDIX B
SPECTROGRAPHS OF X-RAY FLUORESCENCE RESULTS



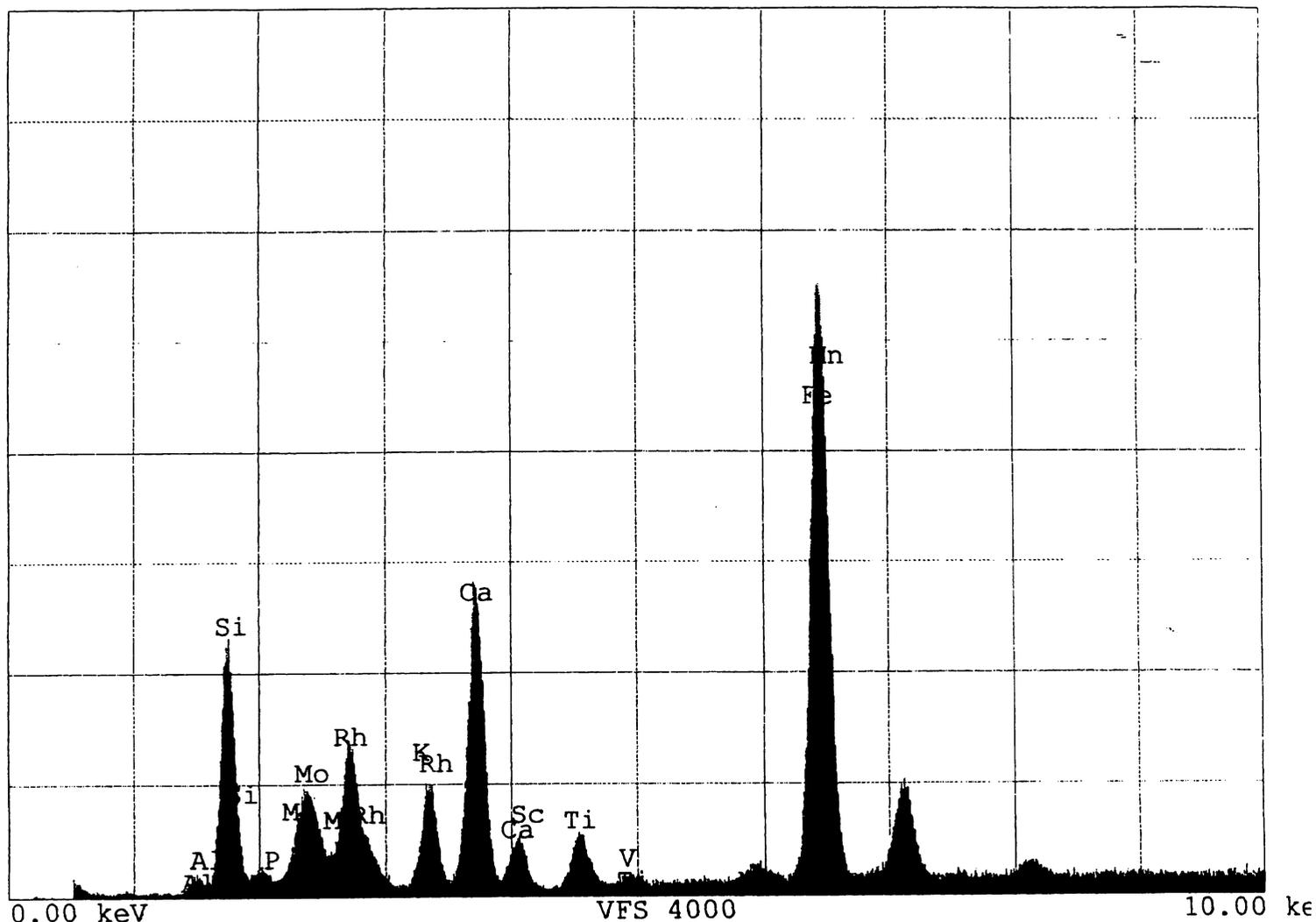
JVAR

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 Tel. (972)-6-543666
 Fax. (972)-6-547472

Date : 07/13/98
 Time : 4:17:59PM

Spectrum: Burial 1 wood rust stain Folder: STONE



Acquisition parameters
 Current 104 μ A
 Voltage 20 kV
 Filter 1 - - -
 Station 4
 Range 20 keV
 L.Time 50 sec
 CPS 6467
 D.Time 54 %
 Tube Direct
 Collimator 3
 Throughput Low
 Atmosphere Vacuum
 Date 07/13/98
 Time 3:38:01PM

ROI information
 Not defined

Overlap information
 No overlaps

Acquisition status
 Current progarch
 Current batshones

Voltage 0.0 kV
 Emission cu#r0 μ A
 Filament cu#r4 A
 Zero DAC 92
 Zero Shift 0
 Zero Width 136
 Gain DAC 145
 Temperature 21 $^{\circ}$ C
 Vacuum level 1980
 Nitrogen level 1%

Cursor information
 Position: 0.00 keV Counts: 0

Date : 07/13/98

Time : 4:17:31PM

Analysis Report

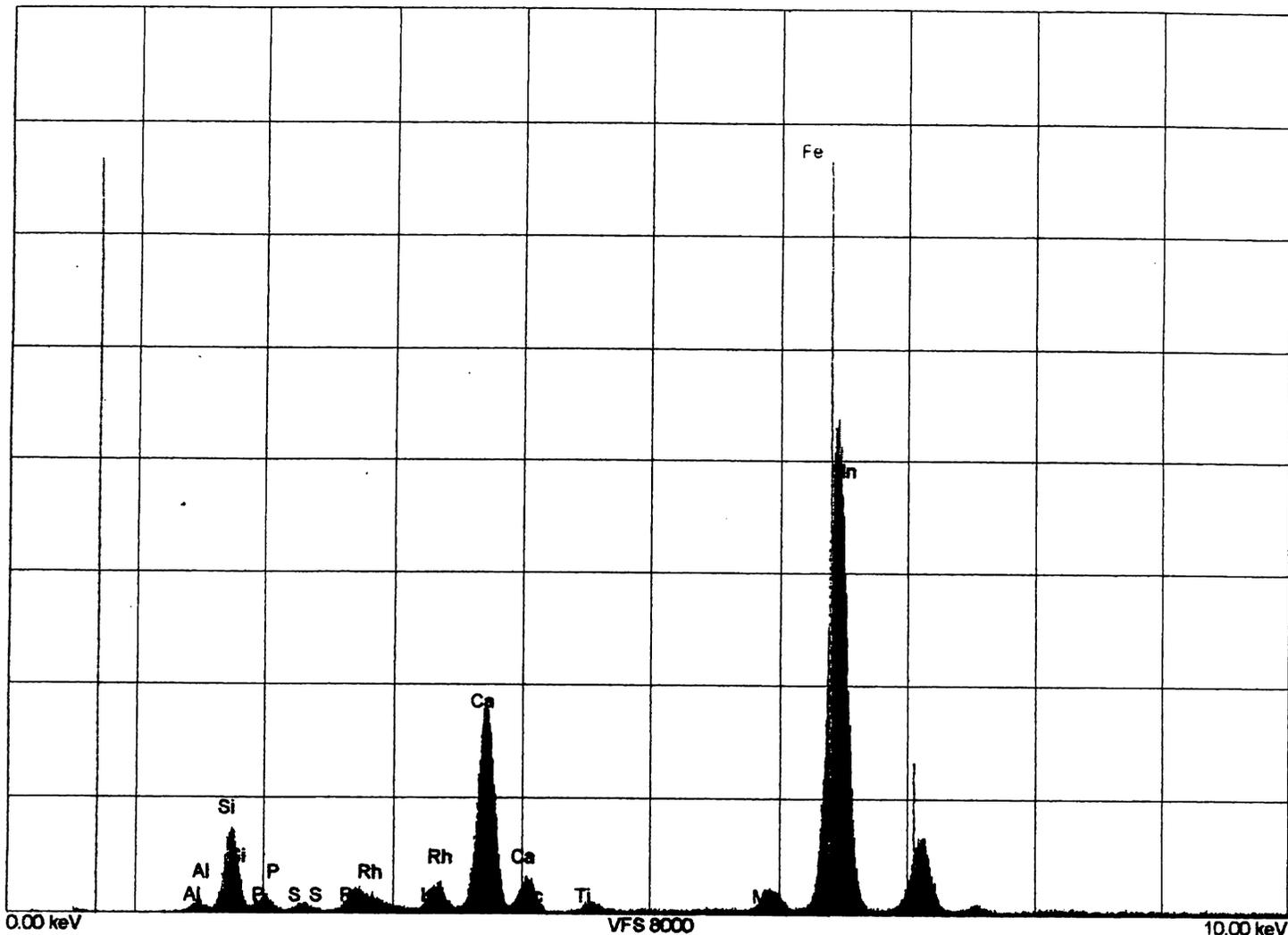
ANALYSIS REPORT

Procedure : arch
Spectrum : Burial 1 wood rust s

Element	Concentration
Al	1.07 %
Si	12.3 %
S	1.40 %
Ca	7.21 %
K	3.21 %
Ti	0.970 %
Mn	0.160 %
Fe	6.04 %
Ni	0.0 ppm
Cu	0.130 %
Zn	5.26 ppm
Mo	67.6 %

Date : 07/13/98
 Time : 3:54:49PM

Spectrum: Burial 63 wood A Folder: STONE



Acquisition parameters

Current 104 µA
 Voltage 20 kV
 Filter 1 --
 Station 1
 Range 20 keV
 L.Time 50 sec
 CPS 4938
 D.Time 44 %
 Tube Direct
 Collimator 3
 Throughput Low
 Atmosphere Vacuum
 Date 07/13/98
 Time 3:30:08PM

ROI information

Not defined

Overlap information

No overlaps

Acquisition status

Current proc. arch
 Current batch Stones
 Voltage 0.0 kV
 Emission curr. 0.0 µA
 Filament curr. 4.4 A
 Zero DAC 92
 Zero Shift 0
 Zero Width 136
 Gain DAC 145
 Temperature 21 °C
 Vacuum level 1479
 Nitrogen level 41 %

Cursor information

Position: 0.00 keV Counts: 0

Date : 07/13/98
Time : 3:57:00PM

Analysis Report

ANALYSIS REPORT

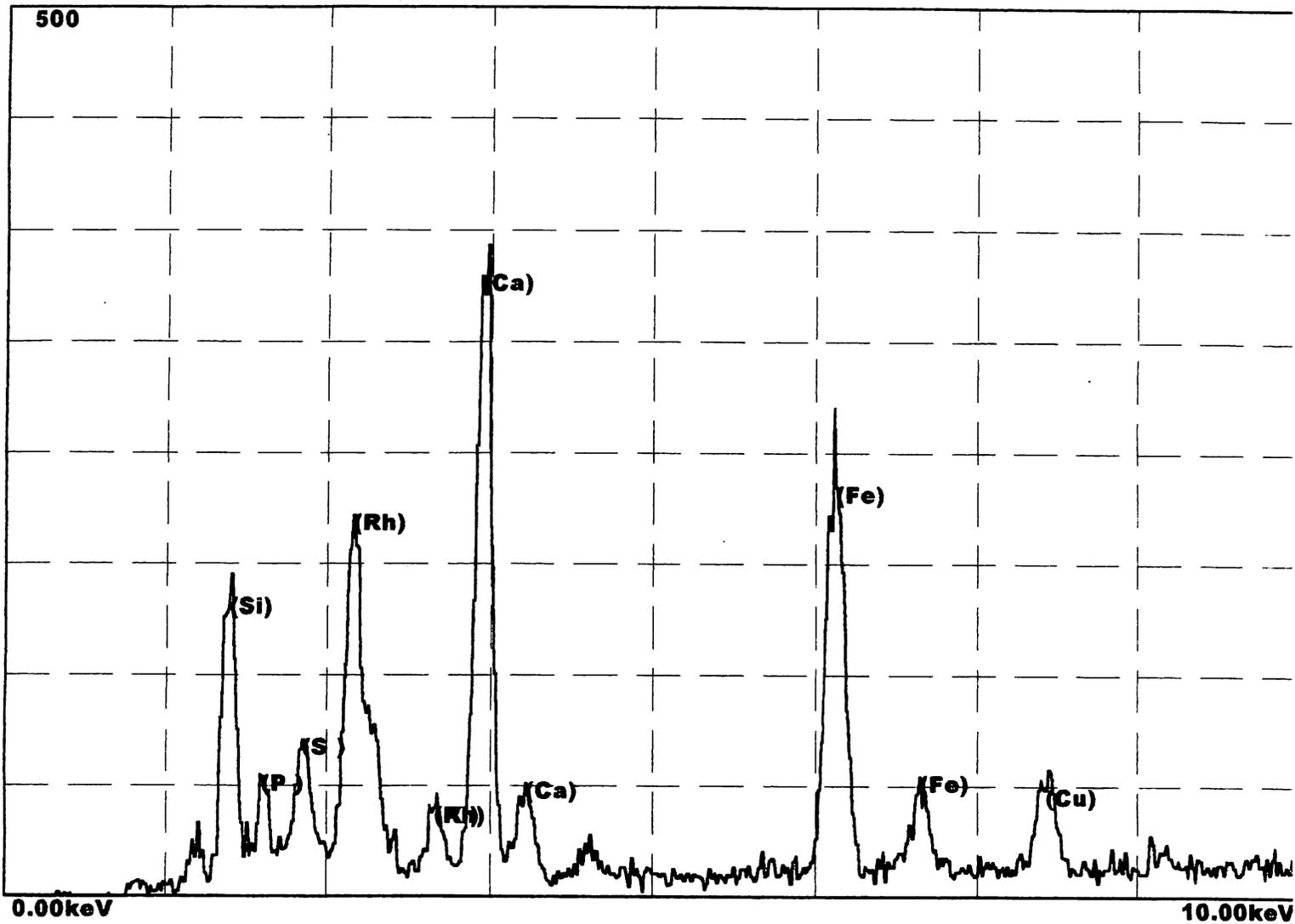
Procedure : arch
Spectrum : Burial 63 wood A

Element Concentration

Al	5.27 %
Si	29.3 %
S	1.03 %
Ca	20.8 %
K	2.65 %
Ti	0.950 %
Mn	1.56 %
Fe	37.6 %
Ni	0.630 %
Cu	0.210 %
Zn	523.2 ppm

Date : 03/09/97
Time : 11:51:14AM

Spectrum: Folder: Semi-Quant for Customs



Current :	20 uA
Voltage :	20 kV
Filter/Target :	1
Station :	7
Range :	40 keV
Live Time :	60 sec
CPS :	409
Dead Time :	5 %
Collimator :	4
Throughput :	Medium

Date : 03/09/97
Time : 11:56:16AM

Analysis Report

J. Boyd 3/11/97

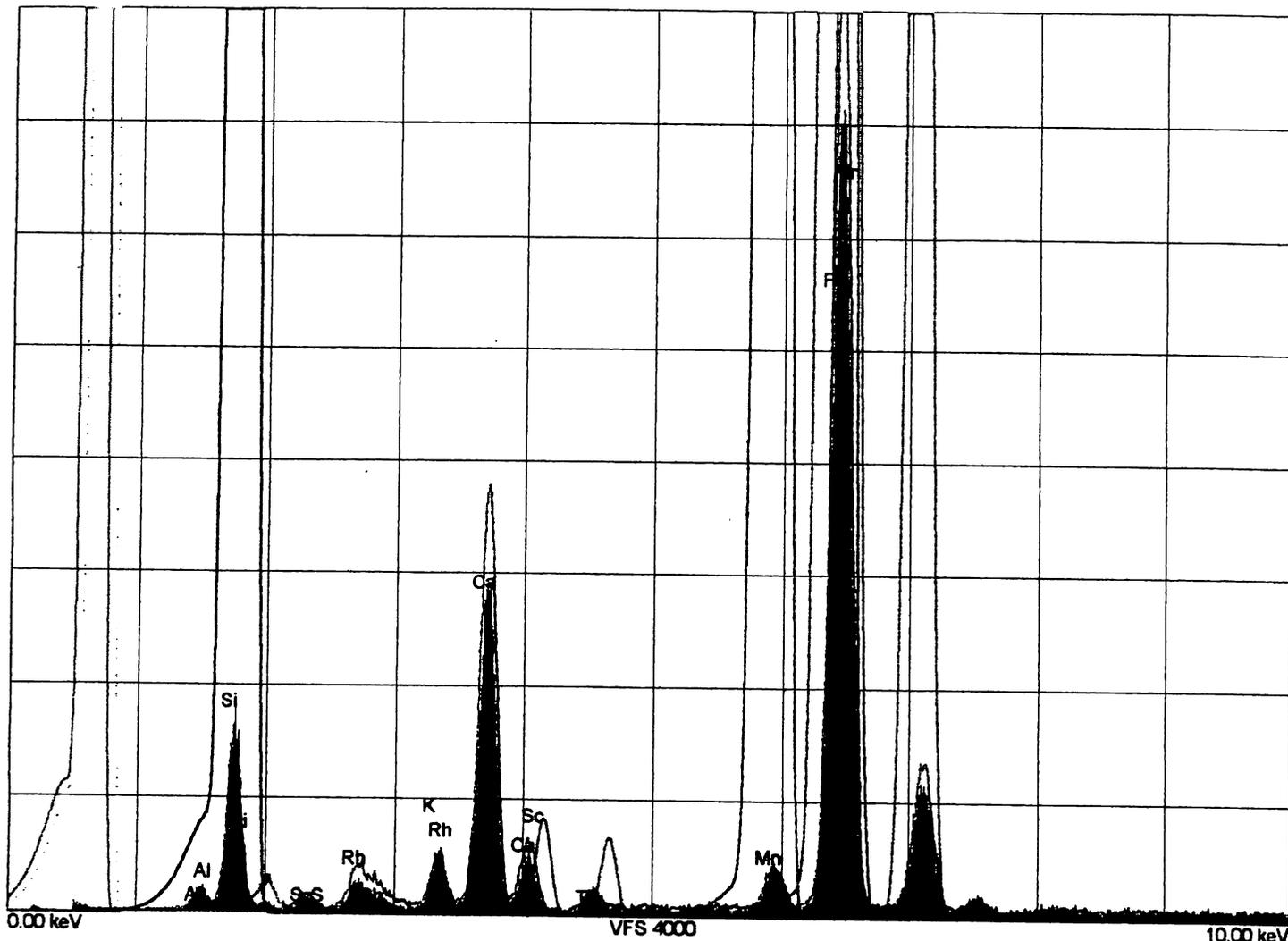
ANALYSIS REPORT

Procedure : BURIAL 11 COFFIN FLOOR
Spectrum :

Element	Concentration
Fe	0.270 %
Ca	1.34 %
P	2.84 %
S	1.53 %
Cu	511.7 ppm
Si	21.2 %
Na	54.8 %
Mg	7.29 %
Ti	388.4 ppm
Al	10.6 %

Date : 07/13/98
 Time : 4:42:24PM

Spectrum: Burial 63 wood B Folder: STONE



Acquisition parameters

Current 104 μ A
 Voltage 20 kV
 Filter 1 --
 Station 2
 Range 20 keV
 L.Time 50 sec
 CPS 4512
 D.Time 41 %
 Tube Direct
 Collimator 3
 Throughput Low
 Atmosphere Vacuum
 Date 07/13/98
 Time 3:32:38PM

ROI Information
 Not defined

Overlap information

Burial 63 wood A
 Pure-K 25-Mn
 Pure-L 25-Mn
 Pure-K 26-Fe
 Pure-K 14-Si

Acquisition status

Current proc. arch
 Current batch Stones
 Voltage 0.0 kV
 Emission curr. 0.0 μ A
 Filament curr. 4.4 A
 Zero DAC 92
 Zero Shift 255
 Zero Width 0
 Gain DAC 145
 Temperature 21 $^{\circ}$ C
 Vacuum level 2285
 Nitrogen level 42 %

Cursor information

Position: 0.00 keV Counts: 0

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Date : 07/13/98
Time : 3:51:43PM

Analysis Report

ANALYSIS REPORT

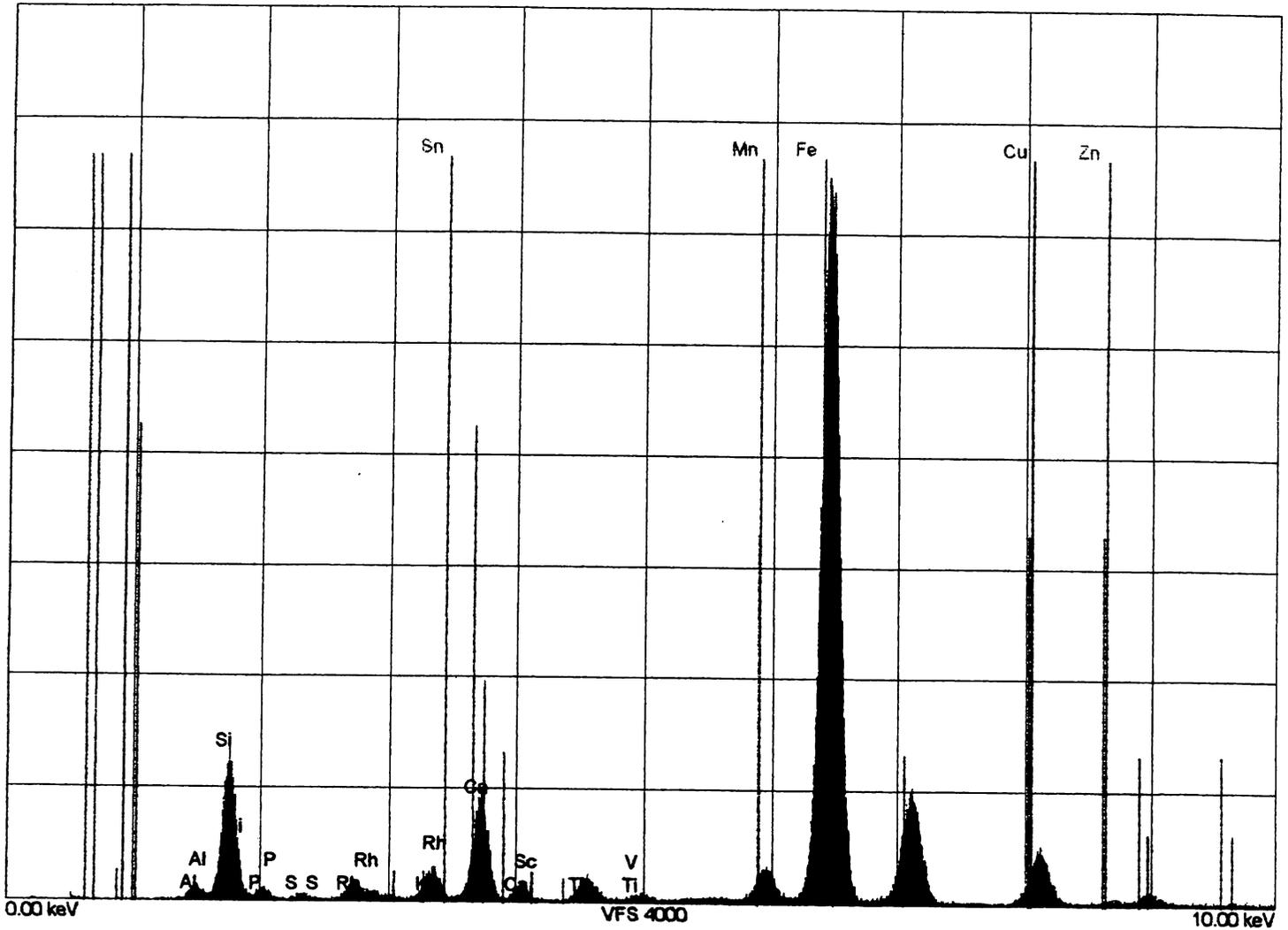
Procedure : arch
Spectrum : Burial 63 wood B

Element	Concentration
---------	---------------

Al	6.34 %
Si	35.9 %
S	1.11 %
Ca	17.8 %
K	3.47 %
Ti	1.31 %
Mn	1.56 %
Fe	31.5 %
Ni	0.780 %
Cu	0.280 %
Zn	0.0 ppm

Date : 07/16/98
 Time : 12:42:50AM

Spectrum: burial 159 wood A Folder: STONE



Acquisition parameters
 Current 104 µA
 Voltage 20 kV
 Filter 1 --
 Station 6
 Range 20 keV
 L.Time 50 sec
 CPS 2837
 D.Time 29 %
 Tube Direct
 Collimator 3
 Throughput Low
 Atmosphere Vacuum
 Date 07/13/98
 Time 2:57:01PM

ROI information
 Not defined

Overlap information
 No overlaps

Acquisition status
 Current proc. arch
 Current batch Stones
 Voltage 0.0 kV
 Emission curr. 0.0 µA
 Filament curr. 4.4 A
 Zero DAC 22
 Zero Shift 255
 Zero Width 0
 Gain DAC 145
 Temperature 22 °C
 Vacuum level 38
 Nitrogen level 79 %

Cursor information
 Position: 0.00 keV Counts: 0

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Date : 07/13/98
Time : 3:16:19PM

Analysis Report

ANALYSIS REPORT

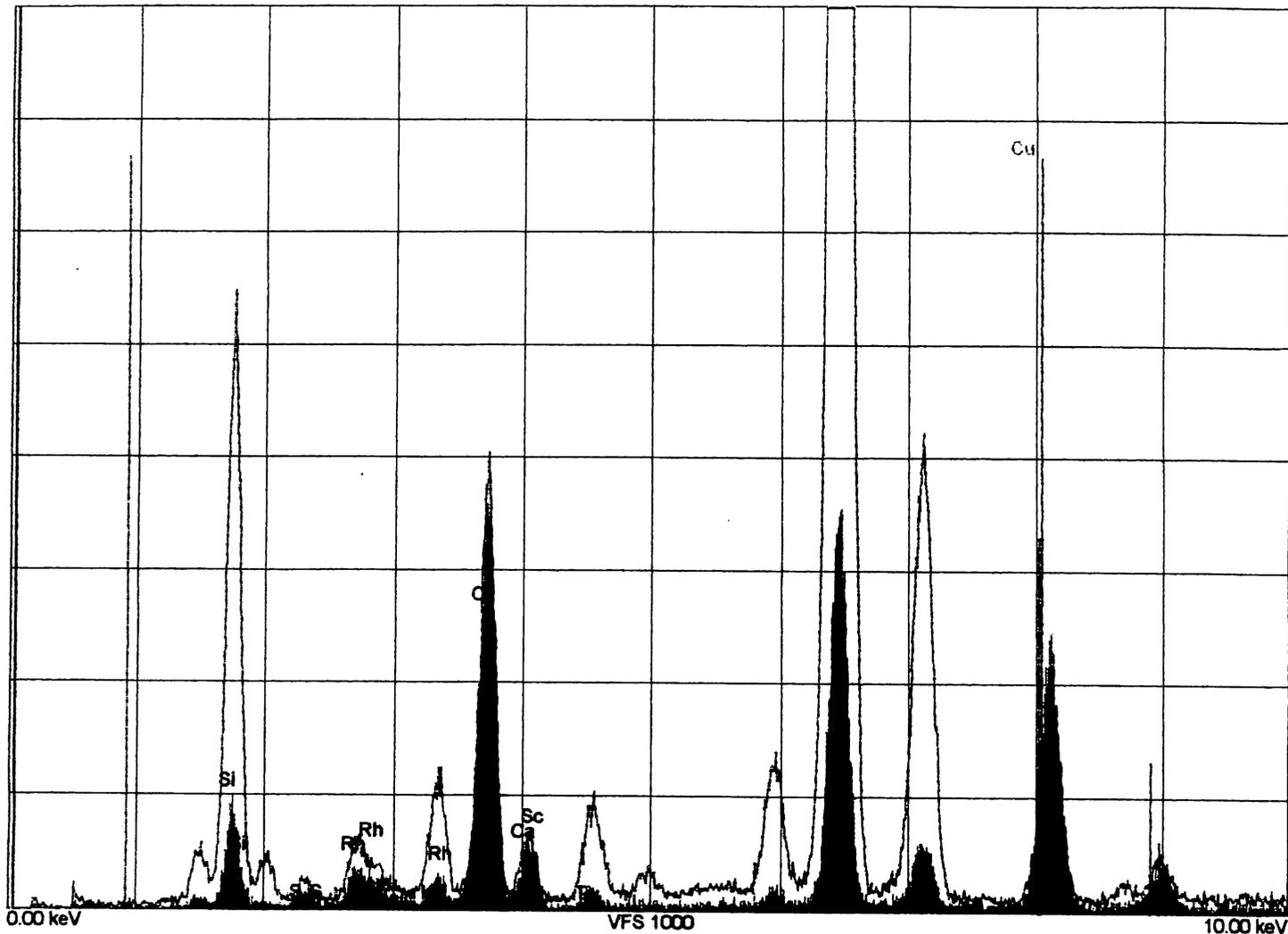
Procedure : arch
Spectrum : burial 159 wood A

Element	Concentration
---------	---------------

Al	5.13 %
Si	39.7 %
S	0.680 %
Ca	7.55 %
K	2.68 %
Ti	1.51 %
Mn	1.57 %
Fe	36.9 %
Ni	0.0 ppm
Cu	4.11 %
Zn	0.130 %

Date : 07/13/98
 Time : 4:30:26PM

Spectrum: burial 159 wood B Folder: STONE



Acquisition parameters

Current 104 μ A
 Voltage 20 kV
 Filter 1 - -
 Station 6
 Range 20 keV
 L.Time 50 sec
 CPS 873
 D.Time 10 %
 Tube Direct
 Collimator 3
 Throughput Low
 Atmosphere Vacuum
 Date 07/13/98
 Time 3:05:54PM

ROI information

Not defined

Overlap information

burial 159 wood A

Acquisition status

Current proc. arch
 Current batch Stones
 Voltage 0.0 kV
 Emission curr. 0.0 μ A
 Filament curr. 4.4 A
 Zero DAC 92
 Zero Shift 255
 Zero Width 0
 Gain DAC 145
 Temperature 21 $^{\circ}$ C
 Vacuum level 2145
 Nitrogen level 42 %

Cursor information

Position: 0.04 keV Counts: 0

Date : 07/13/98

Time : 4:28:05PM

Analysis Report

ANALYSIS REPORT

Procedure : arch
Spectrum : burial 159 wood B

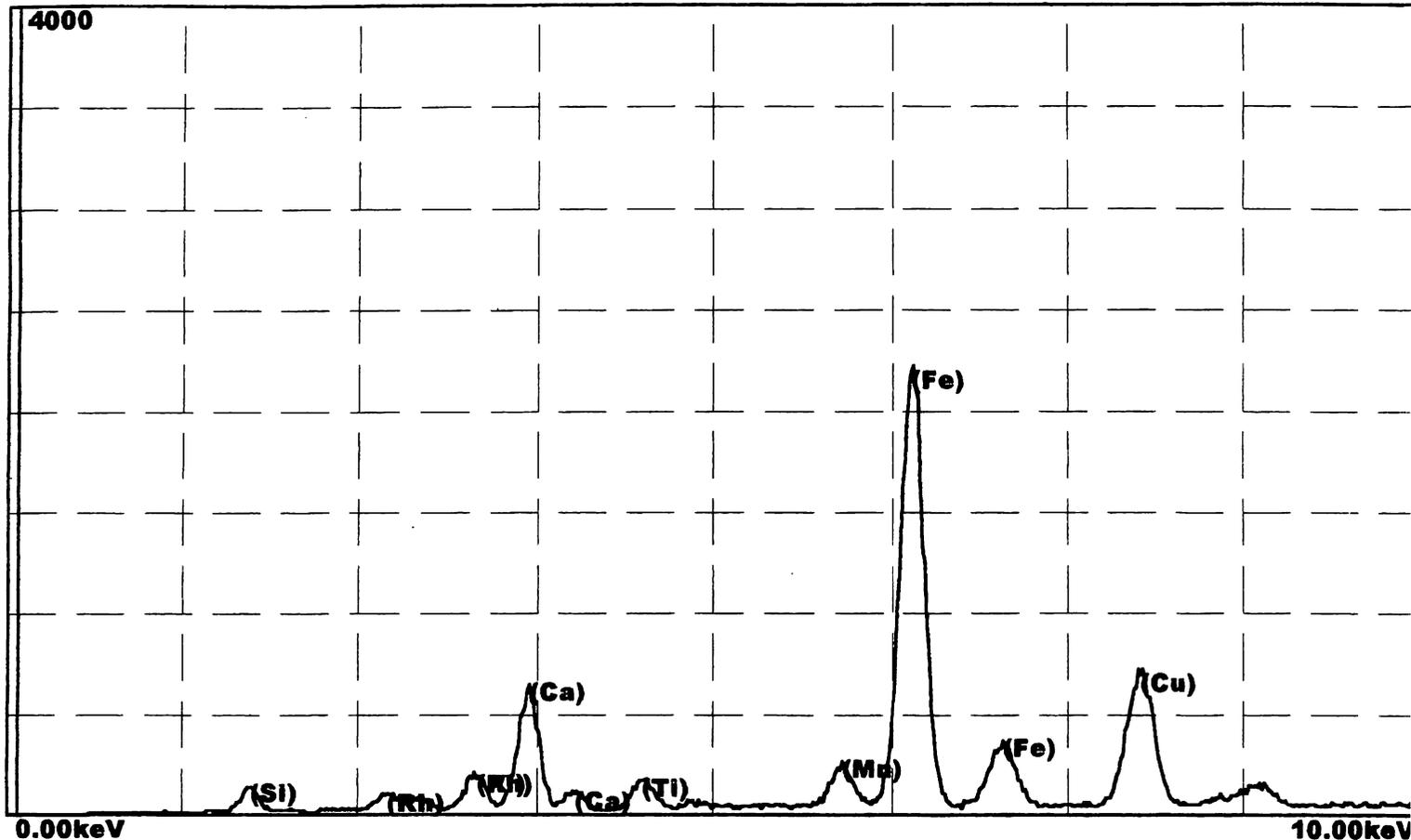
Element Concentration

Al	4.48 %
Si	25.8 %
S	1.33 %
Ca	27.1 %
K	1.53 %
Ti	1.35 %
Mn	0.710 %
Fe	20.3 %
Ni	0.150 %
Cu	17.2 %
Zn	0.0 ppm
Mo	0.0 ppm

Date : 03/26/97

Time : 10:25:29AM

Spectrum: Folder: Semi-Quant for Customs



Current : 20 uA
Voltage : 20 kV
Filter/Target : 1
Station : 2
Range : 20 keV
Live Time : 100 sec
CPS : 2072
Dead Time : 6 %
Collimator : 4
Throughput : High

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Date : 03/26/97
Time : 10:24:39AM

Analysis Report

ANALYSIS REPORT

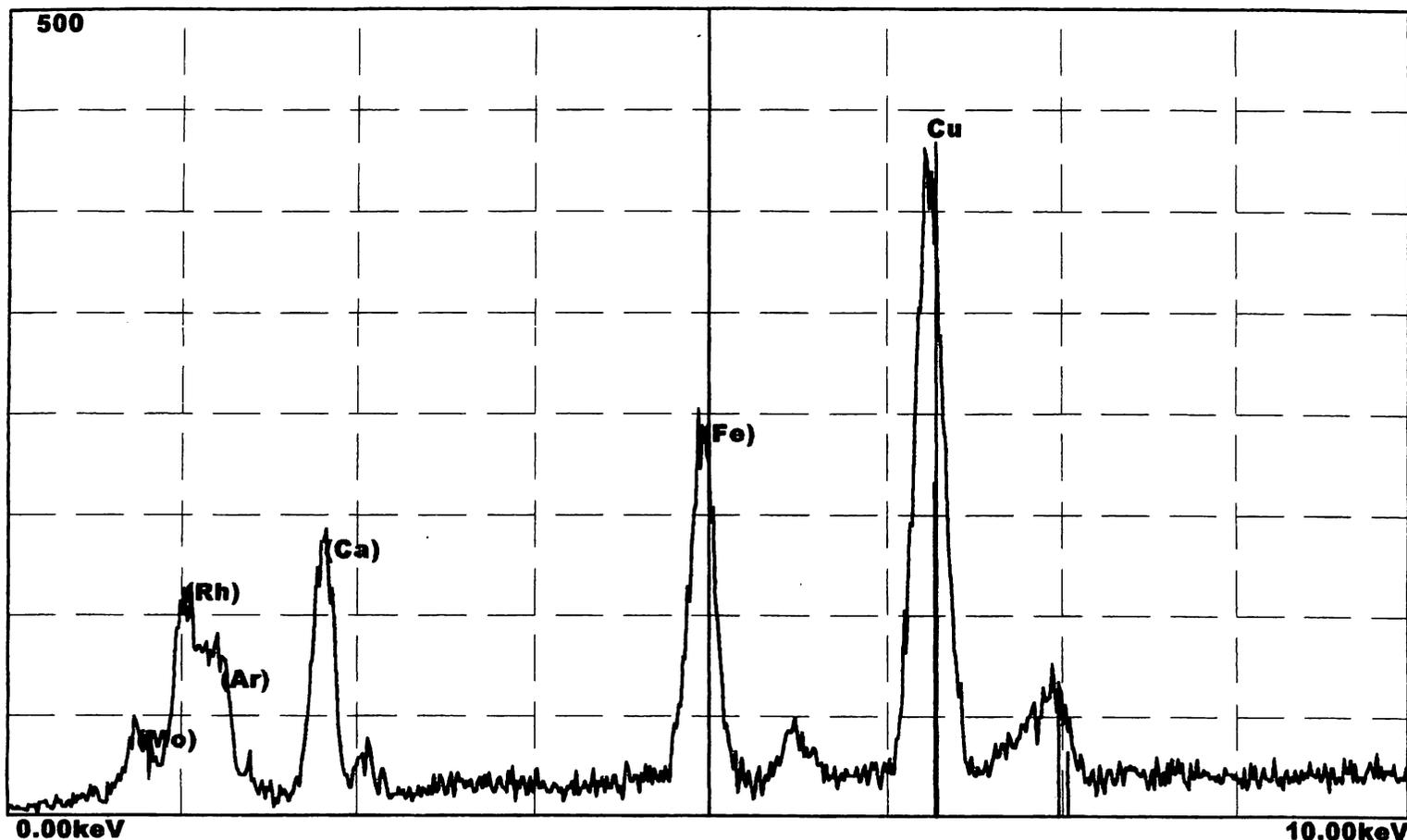
Procedure : #2 BURIAL 213 NO VACUUM
Spectrum :

Element	Concentration
---------	---------------

Ti	2.41 %
Ca	12.3 %
Cu	9.50 %
Fe	23.1 %
Si	44.8 %
Mn	2.17 %
Al	5.77 %

Date : 03/26/97
Time : 10:56:51AM

Spectrum: Folder: Semi-Quant for Customs



Current :	20 uA
Voltage :	20 kV
Filter/Target :	1
Station :	5
Range :	20 keV
Live Time :	100 sec
CPS :	785
Dead Time :	3 %
Collimator :	4
Throughput :	High

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Date : 03/26/97
Time : 10:55:06AM

Analysis Report

ANALYSIS REPORT

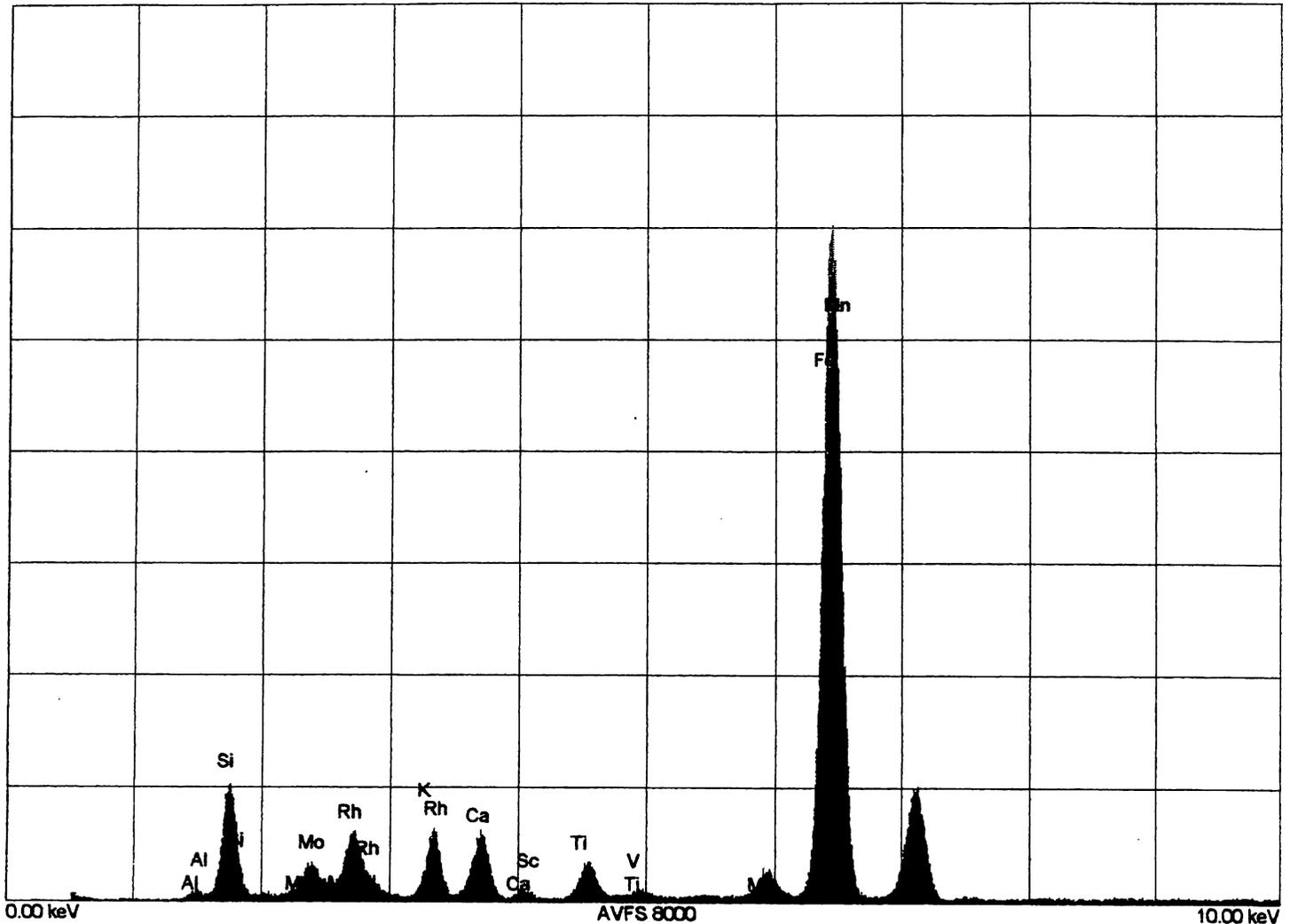
Procedure : #12 BURIAL 259 NO VACUUM
Spectrum :

Element	Concentration
---------	---------------

Ti	0.440 %
Ca	34.1 %
Cu	54.4 %
Si	0.0 ppm
Al	11.1 %

Date : 07/14/98
 Time : 12:12:11AM

Spectrum: CAT 446 CLAY SOIL Folder: STONE



Acquisition parameters

Current 104 μ A
 Voltage 20 kV
 Filter 1 --
 Station 1
 Range 20 keV
 L.Time 50 sec
 CPS 6975
 D.Time 56 %
 Tube Direct
 Collimator 3
 Throughput Low
 Atmosphere Vacuum
 Date 07/14/98
 Time 12:07:35AM

ROI Information

Not defined

Overlap Information

No overlaps

Acquisition status

Current proc. arch
 Current batch Stones
 Voltage 0.0 kV
 Emission curr. 0.0 μ A
 Filament curr. 4.4 A
 Zero DAC 91
 Zero Shift 0
 Zero Width 137
 Gain DAC 145
 Temperature 21 $^{\circ}$ C
 Vacuum level 797
 Nitrogen level 37 %

Cursor information

Position: 0.00 keV Counts: 0

Date : 07/14/98
Time : 12:14:12AM

Analysis Report

ANALYSIS REPORT

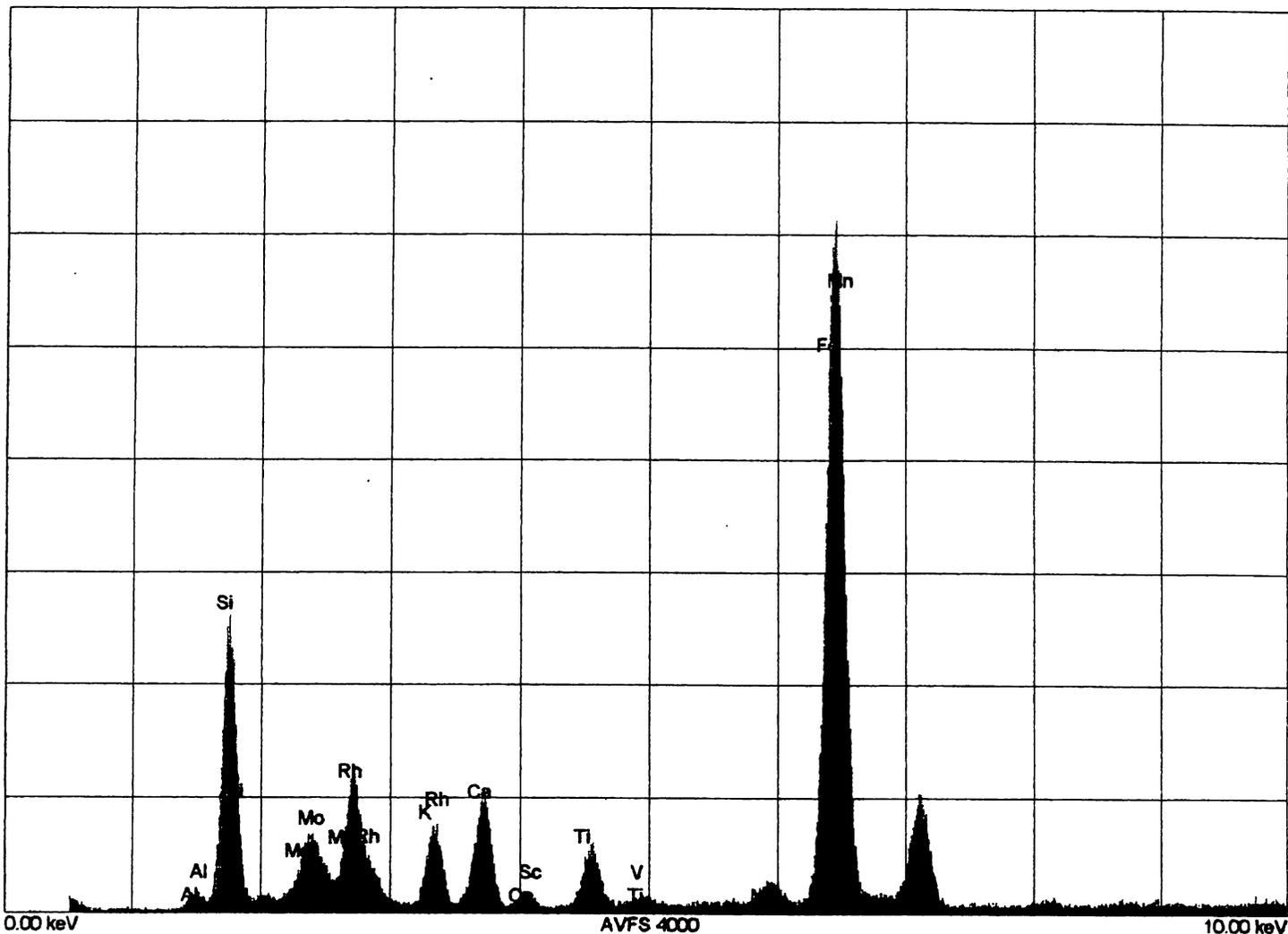
Procedure : arch
Spectrum : CAT 446 CLAY SOIL

Element Concentration

Al	3.85 %
Si	35.9 %
S	0.120 %
Ca	5.82 %
K	7.04 %
Ti	2.68 %
Mn	1.56 %
Fe	42.9 %
Ni	0.0 ppm
Cu	0.160 %
Zn	0.0 ppm

Date : 07/14/98
 Time : 12:16:44AM

Spectrum: CAT 601 SEDIMENT Folder: STONE



Acquisition parameters

Current 104 μ A
 Voltage 20 kV
 Filter 1 --
 Station 2
 Range 20 keV
 L.Time 50 sec
 CPS 4913
 D.Time 44 %
 Tube Direct
 Collimator 3
 Throughput Low
 Atmosphere Vacuum
 Date 07/14/98
 Time 12:14:24AM

ROI information

Not defined

Overlap information

No overlaps

Acquisition status

Current proc. arch
 Current batch Stones
 Voltage 0.0 kV
 Emission curr. 0.0 μ A
 Filament curr. 4.4 A
 Zero DAC 97
 Zero Shift 0
 Zero Width 128
 Gain DAC 145
 Temperature 21 $^{\circ}$ C
 Vacuum level 986
 Nitrogen level 37 %

Cursor information

Position: 0.00 keV Counts: 0

JVAR

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Date : 07/14/98

Time : 12:18:46AM

Analysis Report

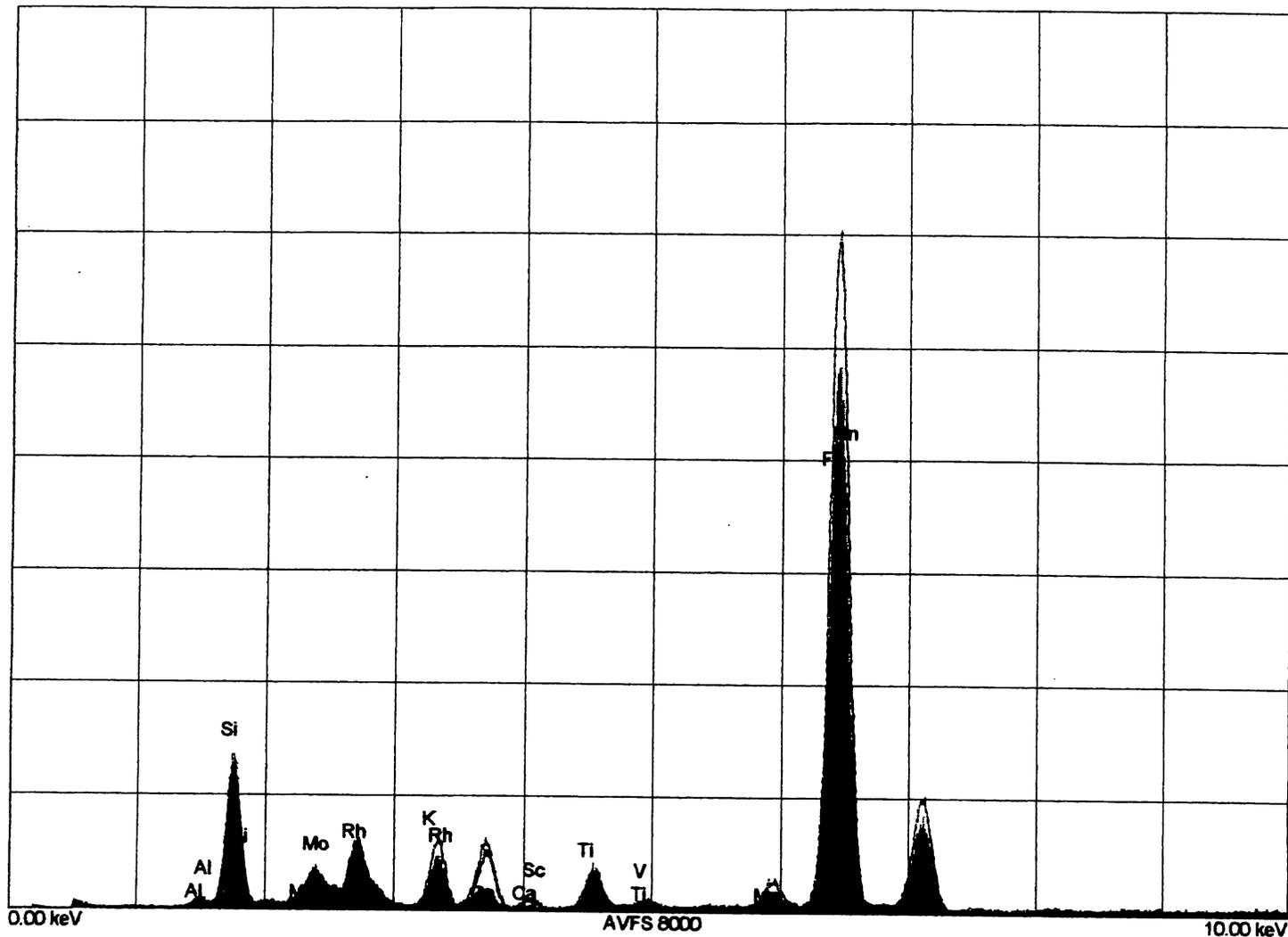
ANALYSIS REPORT

Procedure : arch
Spectrum : CAT 601 SEDIMENT

Element	Concentration
Al	3.78 %
Si	52.2 %
S	886.7 ppm
Ca	7.11 %
K	6.02 %
Ti	3.08 %
Mn	0.850 %
Fe	26.5 %
Ni	0.0 ppm
Cu	0.280 %
Zn	0.120 %

Date : 07/14/98
 Time : 12:27:35AM

Spectrum: CAT 1502 A/B interface Folder: STONE



Acquisition parameters

Current 104 μ A
 Voltage 20 kV
 Filter 1 --
 Station 3
 Range 20 keV
 L.Time 50 sec
 CPS 6181
 D.Time 52 %
 Tube Direct
 Collimator 3
 Throughput Low
 Atmosphere Vacuum
 Date 07/14/98
 Time 12:20:32AM

ROI information

Not defined

Acquisition status

Current proc. arch
 Current batch Stones
 Voltage 0.0 kV
 Emission curr. 0.0 μ A
 Filament curr. 4.4 A
 Zero DAC 93
 Zero Shift -1
 Zero Width 134
 Gain DAC 145
 Temperature 21 $^{\circ}$ C
 Vacuum level 1333
 Nitrogen level 36 %

Overlap information

CAT 446 CLAY SOIL
 CAT 601 SEDIMENT

Cursor information

Position: 0.00 keV Counts: 0

Date : 07/14/98
Time : 12:25:43AM

Analysis Report

ANALYSIS REPORT

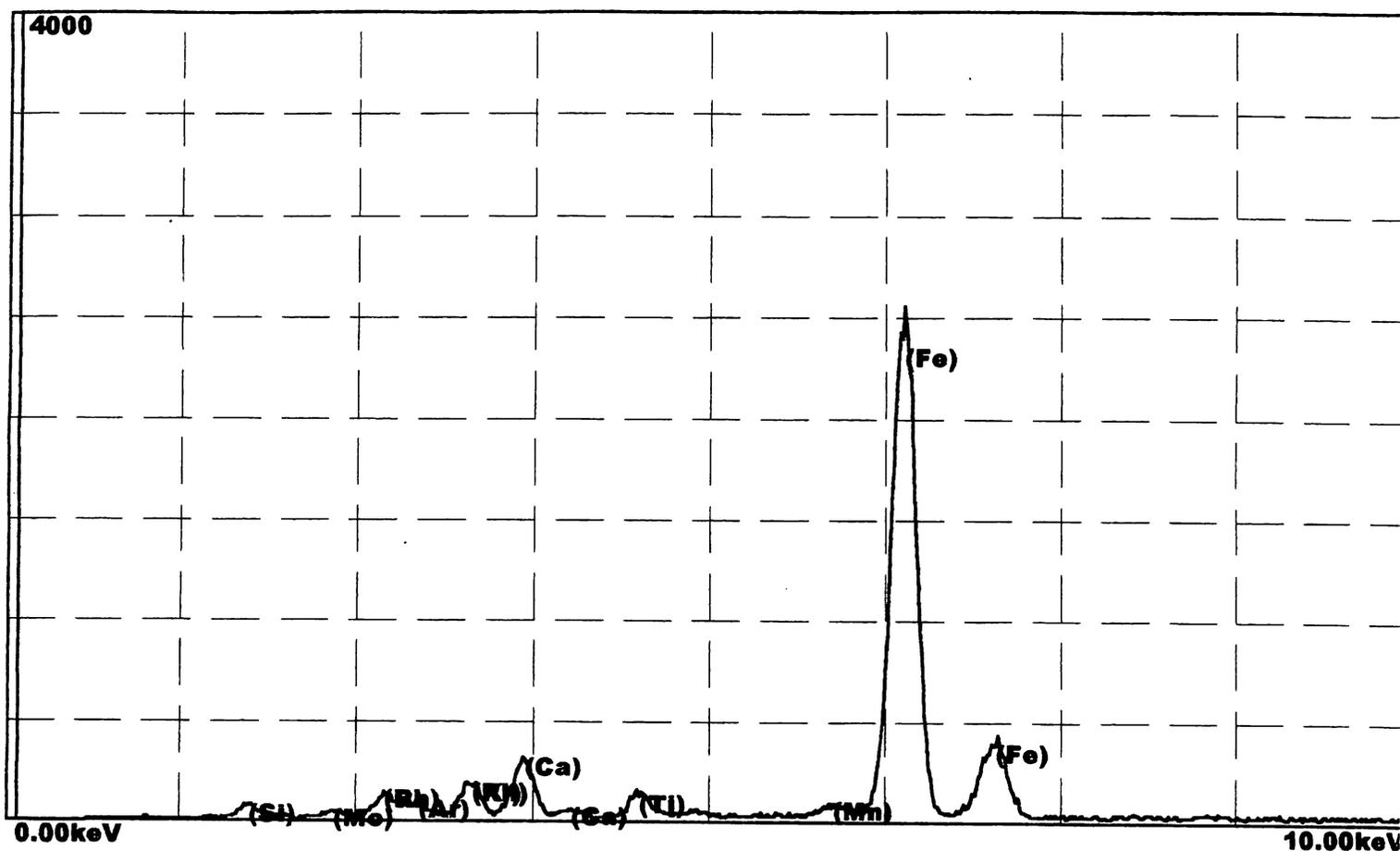
Procedure : arch
Spectrum : CAT 1502 A/B interfa

Element Concentration

Al	4.32 %
Si	48.7 %
S	0.180 %
Ca	2.02 %
K	6.41 %
Ti	3.27 %
Mn	0.860 %
Fe	34.0 %
Ni	0.0 ppm
Cu	102.8 ppm
Zn	0.170 %

Date : 03/26/97
Time : 10:32:42AM

Spectrum: Folder: Semi-Quant for Customs



Current : 20 uA
Voltage : 20 kV
Filter/Target : 1
Station : 3
Range : 20 keV
Live Time : 100 sec
CPS : 1605
Dead Time : 5 %
Collimator : 4
Throughput : High

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Date : 03/26/97
Time : 10:31:52AM

Analysis Report

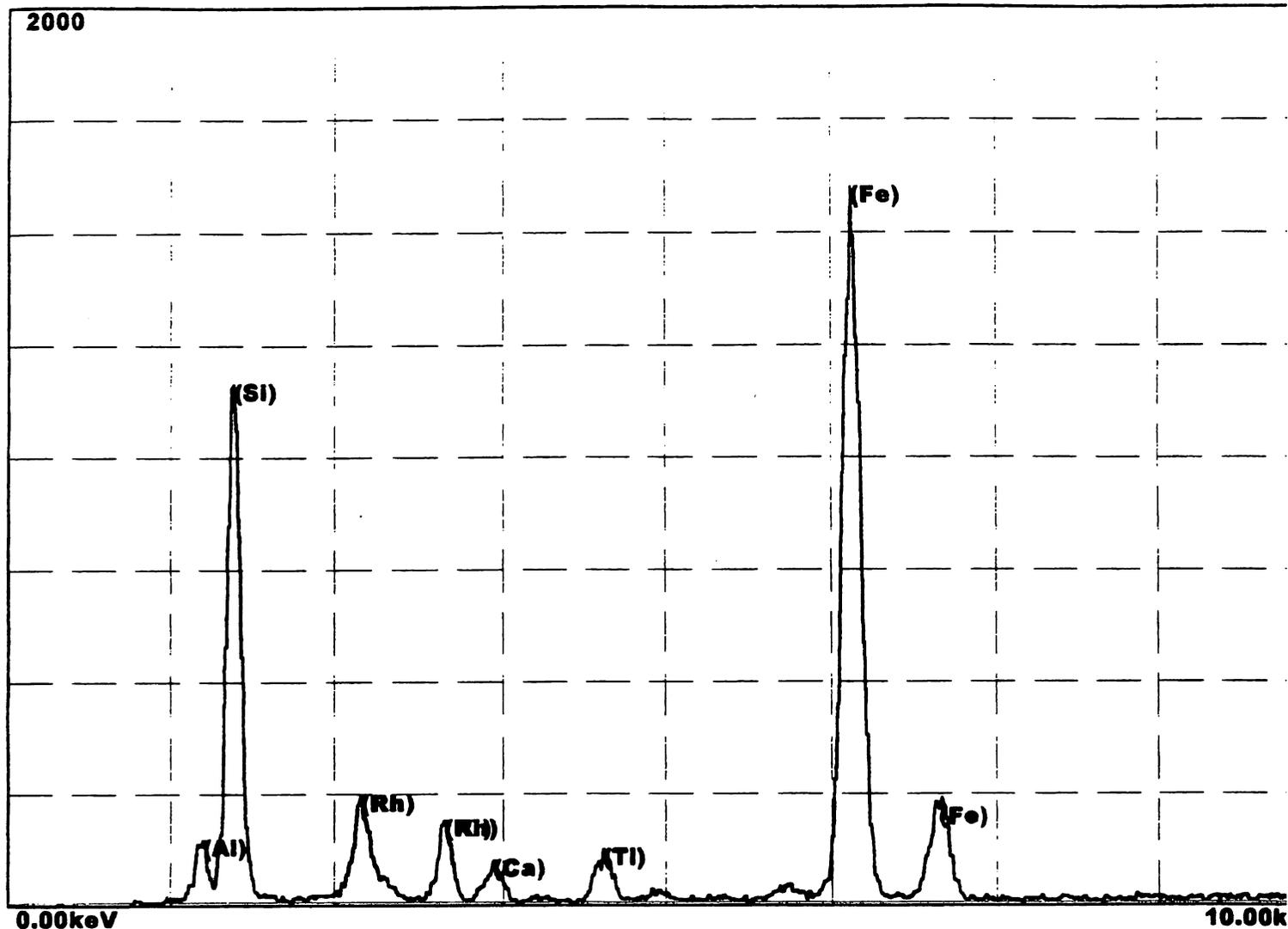
ANALYSIS REPORT

Procedure : #5 BURIAL 130 NO VACUUM
Spectrum :

Element	Concentration
Ti	2.54 %
Ca	8.11 %
Cu	0.300 %
Fe	42.6 %
Si	39.0 %
Mn	0.660 %
Al	6.80 %

Date : 03/09/97
Time : 11:39:36AM

Spectrum: Folder: Semi-Quant for Customs



Cat 905. Burial 159 Soil

Current :	20 uA
Voltage :	20 kV
Filter/Target :	1
Station :	7
Range :	40 keV
Live Time :	60 sec
CPS :	755
Dead Time :	9 %
Collimator :	4
Throughput :	Medium

JVAR

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Date : 03/09/97
Time : 11:43:46AM

Analysis Report

J. S. J. 3/11/97

ANALYSIS REPORT

Procedure : CAT.905 -159 SOIL
Spectrum :

Element	Concentration
---------	---------------

Fe	2.19 %
Ca	0.370 %
Ti	0.300 %
Al	15.8 %
Si	81.3 %

Date : 03/26/97
Time : 10:43:52AM

Analysis Report

ANALYSIS REPORT

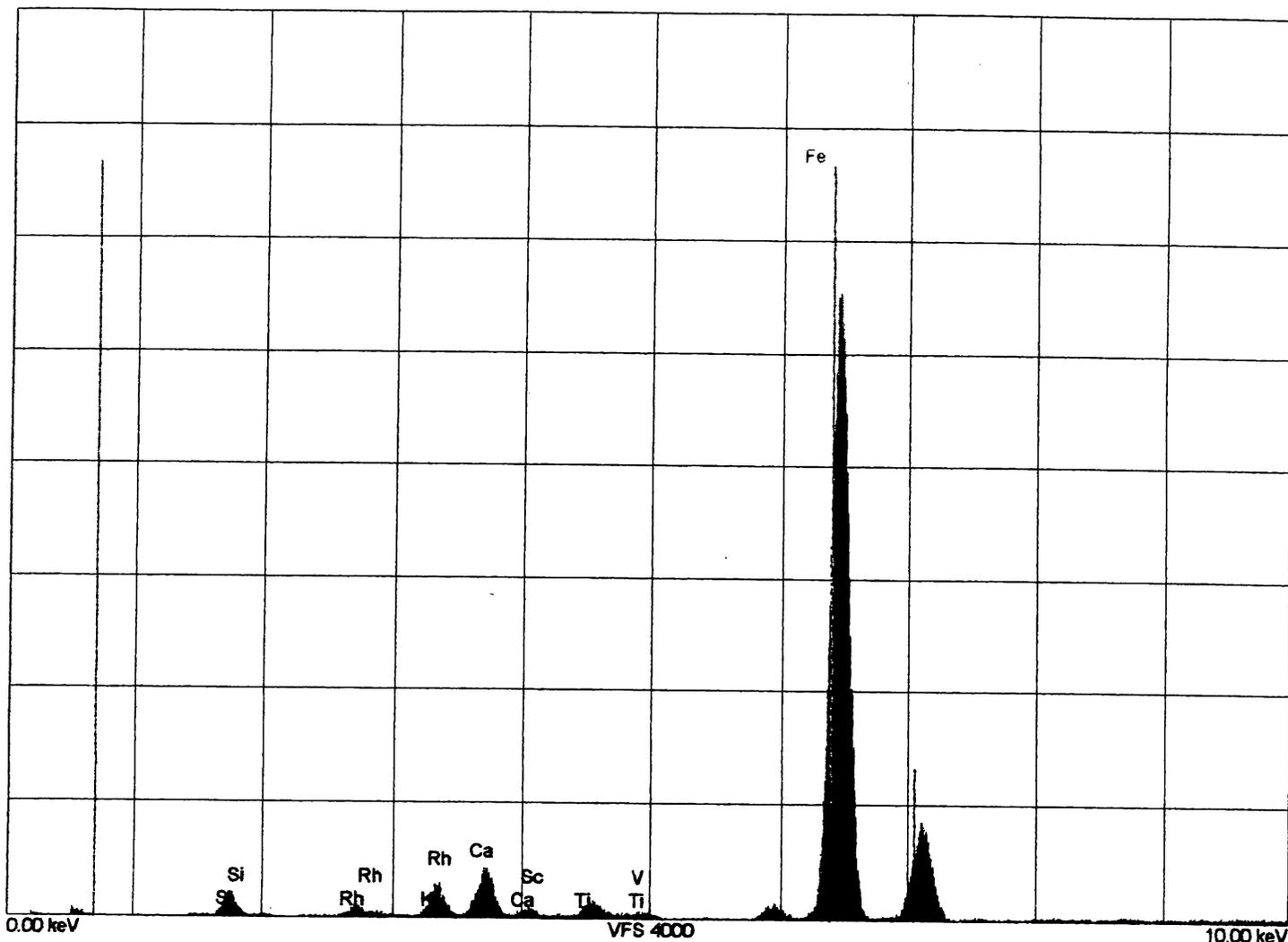
Procedure : #11 BURIAL 97 NO VACUUM
Spectrum :

Element Concentration

Ti	2.89 %
Ca	9.12 %
Cu	0.140 %
Fe	36.1 %
Si	46.5 %
Mn	0.420 %
Al	4.79 %

Date : 07/13/98
 Time : 4:04:12PM

Spectrum: burial 183 soil Folder: STONE



Acquisition parameters

Current 104 μ A
 Voltage 20 kV
 Filter 2 - Ti
 Station 6
 Range 20 keV
 L.Time 50 sec
 CPS 2246
 D.Time 24 %
 Tube Direct
 Collimator 3
 Throughput Low
 Atmosphere Vacuum
 Date 07/13/98
 Time 2:45:06PM

ROI information

Not defined

Overlap information

No overlaps

Acquisition status

Current proc. arch
 Current batch Stones
 Voltage 0.0 kV
 Emission curr. 0.0 μ A
 Filament curr. 4.4 A
 Zero DAC 92
 Zero Shift 0
 Zero Width 136
 Gain DAC 145
 Temperature 21 $^{\circ}$ C
 Vacuum level 1725
 Nitrogen level 42 %

Cursor information

Position: 0.00 keV Counts: 0

JVAR

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Fax. (972)-6-547472

Date : 07/13/98

Time : 4:11:32PM

Analysis Report

ANALYSIS REPORT

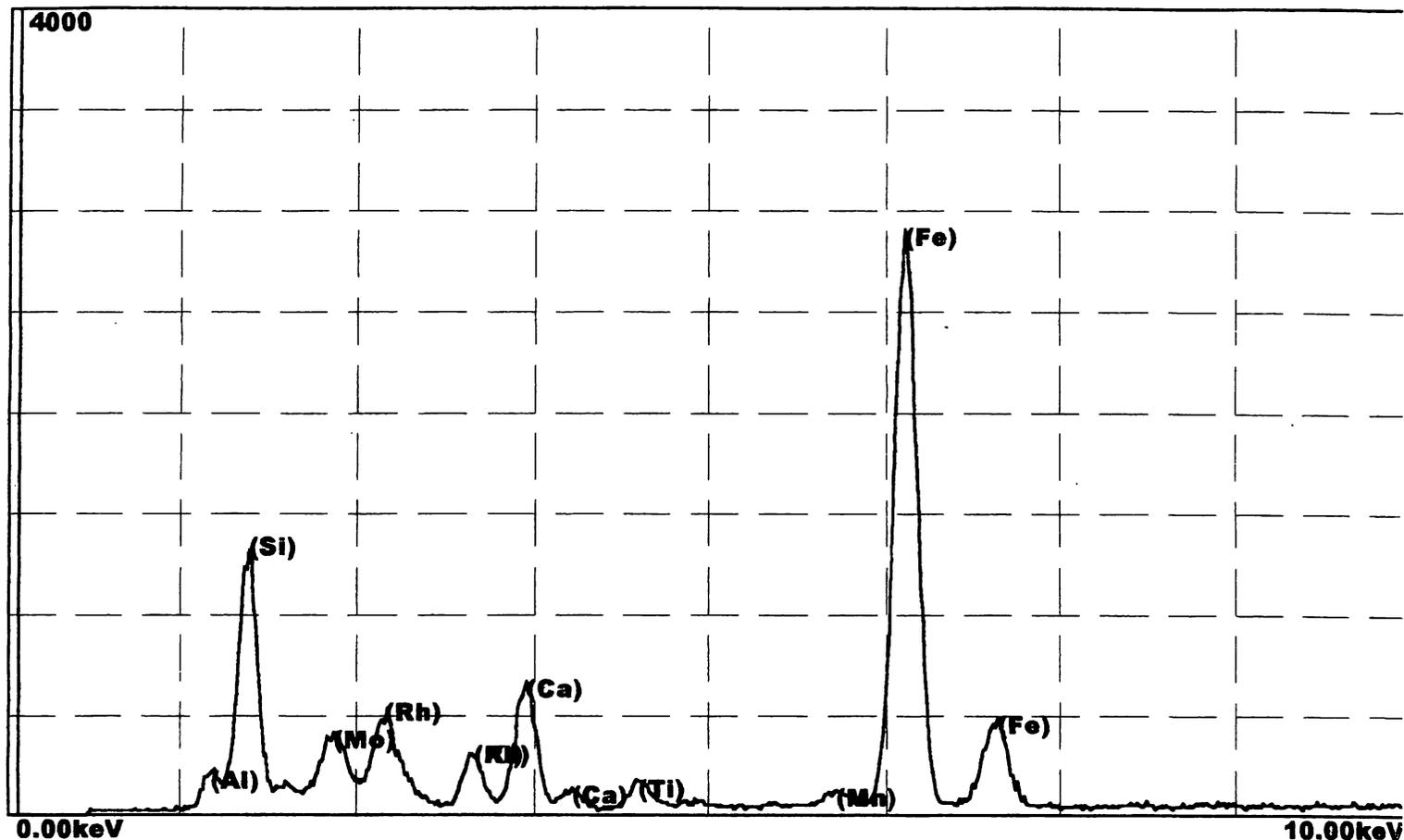
Procedure : arch
Spectrum : burial 183 soil pink

Element	Concentration
---------	---------------

Al	1.98 %
Si	17.0 %
S	180.5 ppm
Ca	10.3 %
K	4.05 %
Ti	1.93 %
Mn	1.41 %
Fe	37.8 %
Ni	0.0 ppm
Cu	0.110 %
Zn	0.120 %
Mo	25.4 %

Date : 03/26/97
Time : 9:59:29AM

Spectrum: Folder: Semi-Quant for Customs



Current : 20 μ A
Voltage : 20 kV
Filter/Target : 1
Station : 1
Range : 20 keV
Live Time : 100 sec
CPS : 2793
Dead Time : 8 %
Collimator : 4
Throughput : High

Date : 03/26/97
Time : 10:03:18AM

Analysis Report

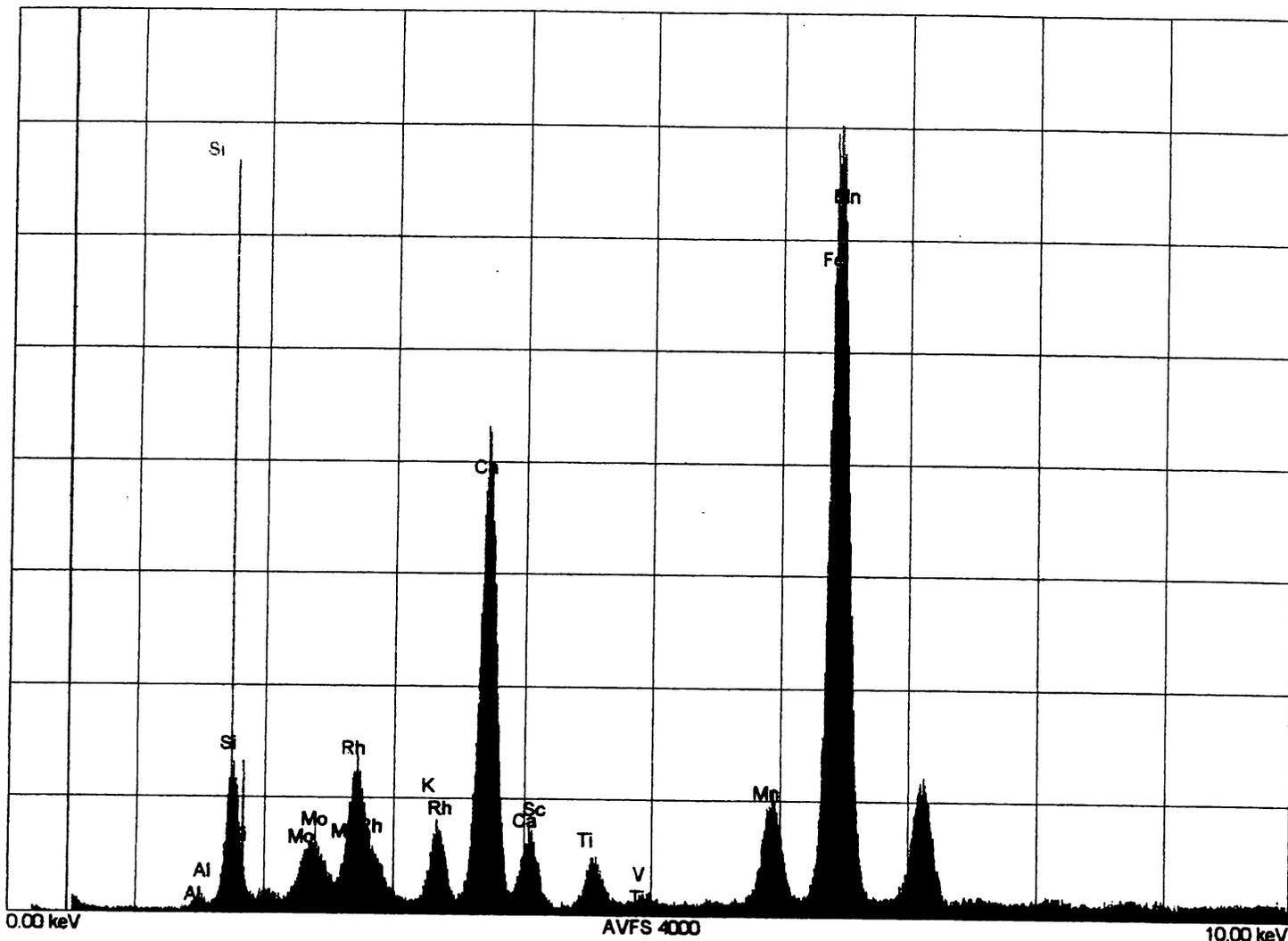
ANALYSIS REPORT

Procedure : #1 BURIAL 316 NO VACUUM
Spectrum :

Element	Concentration
Al	14.8 %
Si	61.6 %
Ti	0.260 %
Ca	1.91 %
Fe	2.68 %
Mg	0.0 ppm
Cu	83.8 ppm
Na	18.7 %
Mn	685.1 ppm

Date : 07/13/98
 Time : 3:46:14PM

Spectrum: Burial 393 soil & wood Folder: STONE



Acquisition parameters

Current 104 µA
 Voltage 20 kV
 Filter 1 --
 Station 5
 Range 20 keV
 L.Time 50 sec
 CPS 6854
 D.Time 56 %
 Tube Direct
 Collimator 3
 Throughput Low
 Atmosphere Vacuum
 Date 07/13/98
 Time 3:40:24PM

ROI Information

Not defined

Overlap Information

No overlaps

Acquisition status

Current proc. arch
 Current batch Stones
 Voltage 0.0 kV
 Emission curr. 0.0 µA
 Filament curr. 4.4 A
 Zero DAC 92
 Zero Shift 0
 Zero Width 136
 Gain DAC 145
 Temperature 21 °C
 Vacuum level 1168
 Nitrogen level 43 %

Cursor information

Position: 0.47 keV Counts: 0

Date : 07/13/98

Time : 4:13:54PM

Analysis Report

ANALYSIS REPORT

Procedure : arch
Spectrum : Burial 393 soil & wo

Element Concentration

Al	2.87 %
Si	24.9 %
S	3.11 %
Ca	24.1 %
K	4.04 %
Ti	2.64 %
Mn	4.52 %
Fe	33.0 %
Ni	0.270 %
Cu	0.330 %
Zn	0.300 %
Mo	0.0 ppm



APPENDIX C
WOOD IDENTIFICATION BY BURIAL



APPENDIX C

WOOD SAMPLE IDENTIFICATION BY BURIAL, AFRICAN BURIAL GROUND

Burial	Catalog	Spruce	Pine	Cedar	Further Identification	Field Bag Notes
1	200		x		Eastern White Pine1	
6	219		x			
7	218				No parenchyma observed1	
9	233		x		Eastern White Pine1	
9	233		x		Eastern White Pine	under right scapula
11	267			x		
11	267			x		Republican Alley
11	267			x		elemental analysis/coffin floor color
11	267			x		
12	253			x		
15	286		x		Red Pine	
17	357				No parenchyma observed	coffin lid
18	310			x	Red Cedar	lid of coffin
22	344		x			
22	344		x			
23	383	x			White Spruce	nail with wood- Republican Alley
23	383	x			Eastern Spruce or Red Spruce	wood sample and nail w/ attached wood
25	358		x			
27	378		x			
29	381	x			White Spruce	back board of coffin
31	409				No Cultural Material	
34	427				Fir (?)	Republican Alley
35	458		x		Red Pine	Republican Alley
36	459			x		
37	460			x		
38	461	x				
40	489		x		Eastern White Pine	
41	525		x			
41	525		x			north wall of coffin
41	525		x		Red Pine	lid of coffin
41	525		x			coffin lid / Republican Alley
41	525		x			
44	570				no pores observed1	
46	605		x		Eastern White Pine	Republican Alley
47	619	x				
49	641			x		
50	649		x		Eastern White Pine	lid and bottom of coffin
50	649	x				Republican Alley
54	726			x	No cultural material	
57	796			x		
58	797					north wall of coffin/too degraded to ID

Burial	Catalog	Spruce	Pine	Cedar	Further Identification	Field Bag Notes
58	798		x		Red Pine	
60	799				Fir	lid of coffin (balsam)
63	805		x			
63	805			x		floor of coffin
64	803		x			
67	810		x		Eastern White Pine1	
67	810		x		Eastern White Pine	
68	807			x		
69	808	x				
70	812			x		probably pegs included
71	813			x		
77	820		x			Republican Alley
82	825		x		Red Pine	
83	826	x			White Spruce	
85	831			x		
89	830		x			Republican Alley
89	830	x				
91	834			x	Eastern Red Cedar	
94	837			x		
96	359				No cultural material- dirt	
96	839		x		Eastern White Pine	top of coffin
97	840				Larch	
98	841				No cultural material- dirt	
101	843				Larch	wood above coffin
103	845				No cultural material	
107	850				Eastern White Pine1	Republican Alley
108	851		x			
109	852		x			Republican Alley
126	871	x				Republican Alley
127	812					bottom of coffin
128	873			x		
130	875			x		
130	875			x	Eastern Red Cedar	
133	878				No cultural material	
137	882		x		Red Pine	
137	882		x			
147	892			x	Northern White Cedar	
148	893				No cultural material	
151	896				No cultural material	
153	898			x		
154	899				No cultural material- dirt	
154	899				No cultural material- dirt	
154	899		x			
159	905		x		Red Pine	
159	905			x		2 of 2, possible applied surface
171	931		x		Eastern White Pine	North wall of coffin

Burial	Catalog	Spruce	Pine	Cedar	Further Identification	Field Bag Notes
171	931	x				lid of coffin
171	931		x			knot (?)
173	936				No cultural material	
174	940	x				
177	946		x		White Pine	
182	970			x		
183	971			x		
183	971				No cultural material	
183	971		x		Red Pine	
184	972				unidentifiable	
186	987		x		Eastern White Pine	
186	987	x				peg/lid of coffin
189	1015			x		
194	1109			x		grave marker with nails
194	1100			x		1,2 & 4 of 4
195	1151			x	Red Cedar	
196	1150			x		
196	1150		x		Eastern White Pine	
196	1150			x	Red Cedar	
196	1150			x		right side of wall
196	1150		x			coffin bottom
200	1165			x		
202	1171	x			White Spruce	
206	1180		x		Red Pine	
208	1182		x			wood above coffin
212	1189				no parenchyma1	coffin bottom
213	1190			x	Red Cedar	
213	1190				unidentifiable	
217	1189				Yew(?)	
228	1214			x		
236	1222		x			top of coffin
236	1222		x		Red Pine	
236	1222				unidentifiable	
236	1222		x		Eastern White Pine	
237	1223		x			
241	1228		x		Red Pine	
242	1229	x				
244	1231			x		
245	1232				root (not from coffin)	
246	1234			x		
246	1234			x		
247	1236		x		Eastern White Pine	lid of coffin
247	1236				No cultural material	
247	1236		x		Eastern White Pine	
247	1236		x			from beneath coffin lid
247	1236		x			possible coffin side
247	1236		x		Eastern White Pine	
247	1236			x		
252	1241				No cultural material	
259	1249			x	with copper artifact stain	

Burial	Catalog	Spruce	Pine	Cedar	Further Identification	Field Bag Notes
259	1249		x			
263	1257			x		
265	1261			x(?)	barely identifiable	
266	1262				too degraded for identification	
270	1266			x		
272	1268			x		Republican Alley
277	1274			x		coffin wood bottom
277	1274		x		Eastern White Pine	
277	1274				No cultural material	
280	1278		x		Eastern White Pine1	coffin floor
282	1301					with copper artifact stain
283	1302		x		Red Pine	
286	1308		x		Red Pine	
290	1324		x		Black Walnut	
290	1324		x		Eastern White Pine	Harris identified
295	1366				No paryenchyma1	coffin floor
306	1474	x				
310	1486		x		Red Pine (?)	
313	1516	x (?)				
313	1516			x	Eastern White Pine	
315	1519			x		
315	1519			x		coffin lid
316	1521			x		
328	1589			x	Red Cedar	
328	1589			x		Republican Alley
332	1608			x	Eastern Red	
333	1613		x			
336	1625				too degraded to id /appears burnt	Republican Alley
340	1651		x		Eastern White Pine	side of coffin
340	1651		x		Eastern White Pine	side of coffin
340	1651			x	Red Cedar	bottom of coffin
340	1651			x	Red Cedar	bottom of coffin
340	1651		x		Eastern White Pine	top of coffin
342	1660		x		Red Pine	side of coffin
342	1660		x		Red Pine	
348	1702				unidentifiable	
350	1708			x		found in pit fill of Bur. 338
354	1742		x			side of coffin
354	1742		x		Eastern pine	
354	1742		x		Eastern Pine	coffin lid
354	1742		x		Eastern White Pine	
363	1825			x		lid of coffin
366	1830		x		Eastern White Pine1	coffin side wall
380	1912		x		Eastern White Pine	bottom of coffin
380	1912		x		Eastern White Pine	side of coffin
383	1931		x		Eastern White Pine	lid of coffin
383	1931		x		Eastern White Pine	side boards of coffin
383	1931		x		Eastern White Pine	bottom of coffin
384	1955				No cultural material	lid of coffin

Burial	Catalog	Spruce	Pine	Cedar	Further Identification	Field Bag Notes
384	1955		x		Red Pine	bottom of coffin
384	1955		x		Red Pine	side of coffin
388	2008				No cultural material	
388	2008		x		too degraded/ appears burnt	
388	2008		x		Red Pine	
392	2039			x		west wall of coffin
392	2039				No cultural material	
392	2039		x			
392	2039			x		
399	2063		x			from bottom of coffin
399	2063				No cultural material	
402	2066	x				possible coffin side or lid
415	2097	x				not from coffin
415	2097			x		
415	2097			x		
416	2098				No cultural material	side of coffin
419	2104	x			Wood left too small to sample	