

## CONSERVATION DEPARTMENT

*Condition & Treatment Report*

**Object:** [1965.2717] Ladle

**Creator Name:**

**Category:** Metals

**Title:**

**Material:** Iron, Brass

**Object Date:** **Dated:** 1827 **Earliest:** 1827 **Latest:** 1827

**Measurements:**

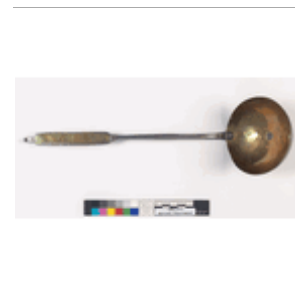
**Height:** **Length:** 32.00 cm (12.60 in)

**Width:**

**Depth:** **Diameter:** 9.40 cm (3.70 in)

**Weight:**

**Measurement Notes:** Diameter is of bowl.



**Reason for Examination:** Gallery rotation

**Requested by:** Ann Wagner

**Catalog Description:** Ladle with an iron handle wrought of one attached to a circular brass bowl with three iron rivets. The tip has a flat, tapered, and curled hook with a back-curved terminal. The handle has a flattened, square in section segment, approximately 9.5 cm in length and a round in section segment. The flattened support is anchored to the bowl with three iron rivets, one at the edge of the brass bowl, one near the center of the brass bowl, and the other half-way to the opposite edge of the bowl.

Rectangular segment of brass inlay on the handle, approximately 9.2 cm in length.

Mark "T·A 1827" incised in the brass inlay. The old number is painted in red on the back of the handle: "Ek425".

**Previous Treatment:** No record of previous treatment.

Was analyzed on June 12, 1975 by Karen Papouchado (Analytical Request 337). The metallic composition of the reverse of the bowl was analyzed. It was revealed to be approximately 62.90% Cu, 1.26% Pb, and 33.67% Zn, making it a high zinc brass.

**Condition:** Overall, the ladle is complete and structurally sound.

**CORROSION**

The iron alloy surfaces have stable black corrosion, especially in lower areas. No areas of red corrosion or active corrosion were observed.

The brass elements have corroded in areas where polish residue was left on the surface.

## SURFACE and COATING

There are many small dents and areas of abrasion on the bowl of the ladle.

The surface of the iron appears somewhat glossy; however, when viewed under magnification there is no evidence of a wax coating. Possibly the surface may have had a previous thin oil coating. The brass does not appear to have been coated. The object was examined under both long wave and short wave UV light using as the UV light source a Handheld Mineralight® Lamp (model number UVGL-58 with multiband UV at 254nm and 366nm; operates at 115 V, 60 Hz, and 0.16 amps; manufactured in December 1998 in Upland, CA.) Under both long and short wave UV light, no visible coating was observed.

## ACCRETIONS

There are remnants of polish residue in the interior of the bowl around the copper alloy rivets and on the exterior of the bowl around the iron alloy bar. There are also polish residues in the engraved initials and date on the handle of the ladle in the copper alloy inlay.

## LABELS/ACCESSION NUMBER

“55.2717” and "EK425" were applied in red paint on the reverse of the handle; there is no clear isolating layer below the number.

**Proposed Treatment:** 1. Before and after treatment photography will be taken by Jim Schneck.

2. The red numbers will be removed from the back of the handle to allow the surfaces to be cleaned and coated.

3. The surfaces will be cleaned with Shell Sol D-38 on cotton swabs and degreased with acetone. (The areas of darker corrosion on the surfaces will remain.)

4. The accession numbers will be applied to the back of the object over a barrier layer of Paraloid B-67.

Applying a wax coating, as is typically done for iron objects in the collection, is not desirable for the copper alloy elements of the object; therefore, it was decided to apply no coating to this object at this time.

**Proposal By:** Madeline Hagerman

**Proposal Date:** 07/20/2018

**Authorized By:** Ann Wagner

**Authorization Date** 07/31/2018

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**Authorized By:** Lauren Fair

**Authorization Date** 08/22/2018

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**Treatment:** 1. Before and after treatment photography was taken by Jim Schneck.

2. The red number was removed from the back of the handle to allow the surfaces to be cleaned.
3. The surfaces was cleaned with Shell Sol D-38 on cotton swabs and degreased with acetone. (The areas of darker corrosion on the surfaces remain.)
4. The accession numbers was applied to the back of the handle in red over a barrier layer of Paraloid B-67.

Under consultation, it was decided that no coating would be applied to the object as it would prevent the use of acrylic coatings on the brass elements in the future. Because of this, only applying wax to the iron elements was deemed too risky.

**Treated By:** Madeline Hagerman

**Date Completed:**09/10/2018

**Treatment Hours:** 6.00



1965.2717 OR NL BT 07 2018



1965.2717 OF NL AT 09 2018



1965.2717 OR NL AT 09 2018