KC RESTORATION

COLOR ANALYSIS STUDY

of the
Breakers Hotel
located at
210 East Ocean Boulevard
Long Beach, California 90802

Report prepared by
Carolyn Lehne

April 3, 2018

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April 3, 2018
Breakers Hotel
210 East Ocean Boulevard
Long Beach, CA 90802

COLOR ANALYSIS STUDY of the exterior surfaces and interior lobby at the Breakers Hotel located at 210 East Ocean Boulevard, Long Beach, CA 90802.

Developed in 1925 by Fred B. Dunn, the landmark Breaker Hotel, in Long Beach, California, is an example of Spanish Renaissance or Romnesque architecture. It was designated a Long Beach Historical Landmark in 1989.

SAMPLE LOCATIONS

The focus of this color analysis study is to determine the original historic paint colors. The locations of analysis are on the exterior surfaces of the building and the interior entry lobby.

SAMPLE PROCESSING and RESULTS

The samples were retrieved March 26, 2018. They were then processed, examined and documented by April 2, 2018. The procedure used to analyze these color sequences consists of these steps: 1) sample removal, 2) sample mounting, 3) paint layer identification, 4) paint color identification, and 5) sample storage.

The description of these steps are as follows:

Sample Removal

The paint samples are removed from each area with a scalpel. Samples are taken to include a portion of the substrate to ensure that a full paint layering sequence is obtained. Once removed, the paint samples are stored in coin envelopes for transport.

Sample Mounting

The samples are embedded in a resin then ground and polished to achieve a uniform surface with a clear cross-section.

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Paint Layer Identification
Paint color layers are identified under microscope beginning with the layer immediately above the substrate. Varnishes, shellacs and other resinous finishes, fibers, and stains, do not fall into an obvious color category and are identified by their material name. Paint layering chronologies are usually established for several elements in an interior room or on the exterior of a building, even if the objective of the paint study is only to document accurate paint colors.

Paint Identification
After the original paint color is identified, it is matched to a custom color. This becomes a color reference card for each sample.

Sample Storage
The samples are then prepared for storage. They are labeled with the reference number assigned to each sample and securely filed for future reference.

Following are the findings:

EXTERIOR SURFACES

Sample #1
This sample was taken from the 2nd floor exterior wall. The sample has 9 layers of paint. The first is a pale peach, followed by a beige, a green, peach, white, pale yellow, white, off-white, and the current off-white layer. The original surface appears to be a pale peach color. Note: The exterior samples 1A (the 2nd floor window ledge), 1B (varied brick wall), and 1C (fire escape) are the same color and color sequence as sample #1.

Sample #2
This sample was taken from the main entrance decorative terra cotta. The sample has 16 layers of paint plus a layer of gold leaf. The first is a medium peach, followed by a dark red, white, dark red, yellow ochre, dark red, off-white, blue, white, gold leaf, warm grey, beige, dusty rose, dark red, yellow ochre, white, and the current off-white layer. The original surface appears to be a medium peach color. The gold leaf layer and previous thin color layers suggest that the surface was glazed and possibly decoratively painted to enhance the decorative details.

Sample #3
This sample was taken from the exterior wall. The sample has 13 layers of paint. The first is a green, followed by peach, pale peach, yellow ochre, off-white, beige, off-white, white, beige, off-white, beige, black, and the current off-white layer. The original color appears to be a green color. I noticed that the green color was evident in later sequence layers of exterior samples 1, 1A, 1B, AND 1C. I believe the wall may have been left unpainted originally and then painted green during the same time frame that a green paint palette was applied to rest of the building.

INTERIOR LOBBY SURFACES

Sample #4
This sample was taken from the interior wall. The sample has 6 layers of paint. The first is a pale yellow, followed by a yellow, off-white, off-white, off-white, and the current off-white layer. The original surface appears to be a pale yellow color.

Sample #5
This sample was taken from the inset panel. The sample has 6 layers. The first is a yellow color, followed by a pale yellow, pale peach, cream, beige and the current off-white layer. The original surface appears to be a yellow color.

Sample #6
This sample was taken from the interior base molding. The sample has 8 layers of paint. The first is a pale yellow, followed by a yellow layer, off-white, off-white, off-white, off-white, off-white and the current blue layer. The original surface appears to be a pale yellow color. Note: Sample 6A (decorative panel frame) is the same color and color sequence as sample #6.

SAMPLE LOCATIONS
Exterior Windowsill

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SAMPLE LOCATIONS

Exterior

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SAMPLE LOCATIONS

Exterior Property Wall

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SAMPLE LOCATIONS

Terra Cotta

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SAMPLE LOCATIONS
Interior Entry Lobby

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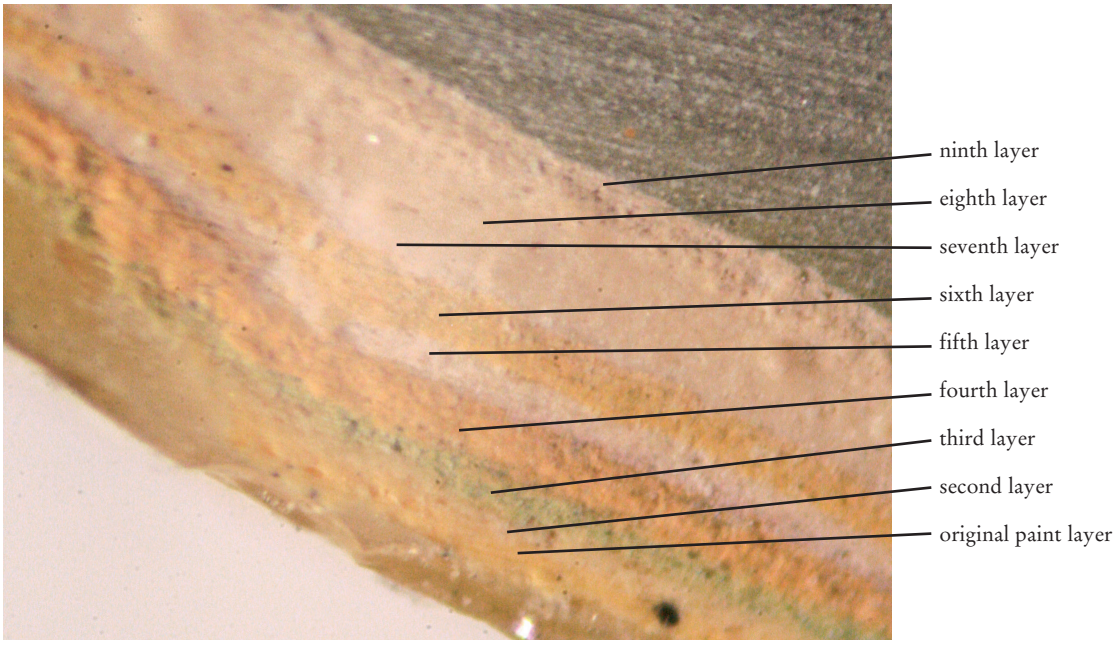
SAMPLE #1 Building Exterior



PLEASE NOTE:
Microphotograph is representative of layering only and is not accurate for color.
Refer to MUNSELL Color and chip sample for true color.

MUNSELL COLOR
hue = 9.65YR
value = 8.8
chroma = 3.3

Light Reflection Value 75

COMMERCIAL COLOR
Dunn Edwards DE5275 Peach Smoothie

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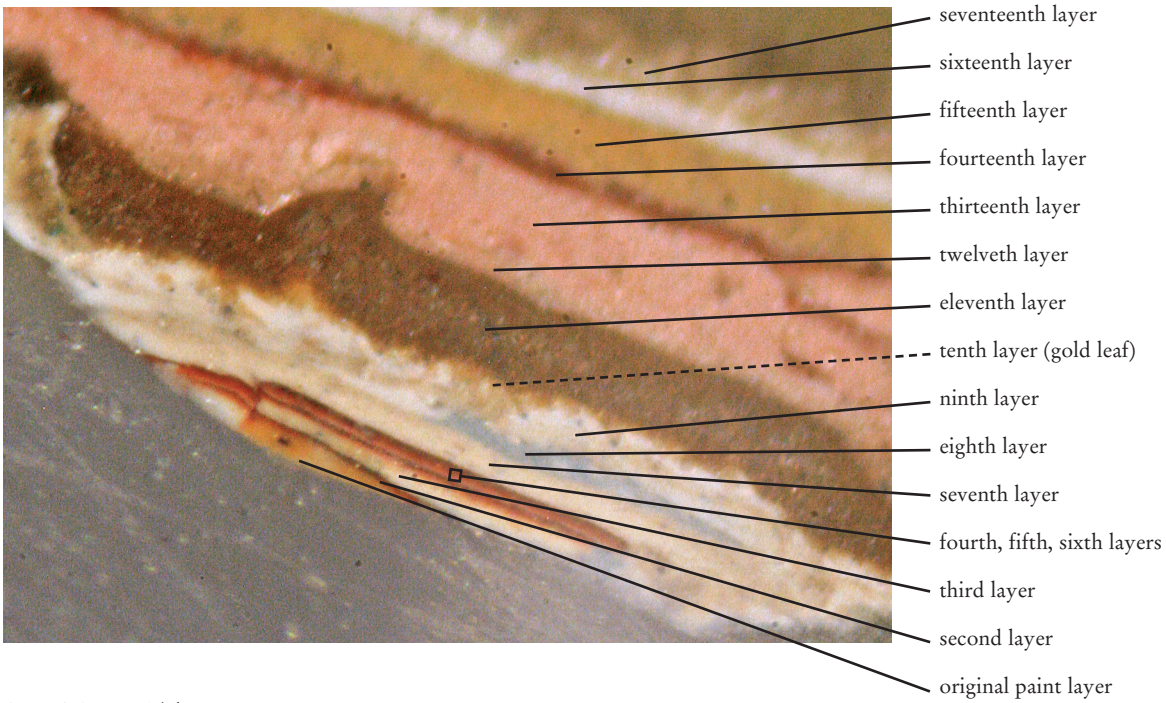
SAMPLE #2 Exterior Decorative Terra Cotta - Main Entrance



PLEASE NOTE:
Microphotograph is representative of layering only and is not accurate for color.
Refer to MUNSELL Color and chip sample for true color.

MUNSELL COLOR
hue = 7.75YR
value = 8.0
chroma = 4.5

Light Reflection Value 59

COMMERCIAL COLOR
Dunn Edwards DE5268 Sundown

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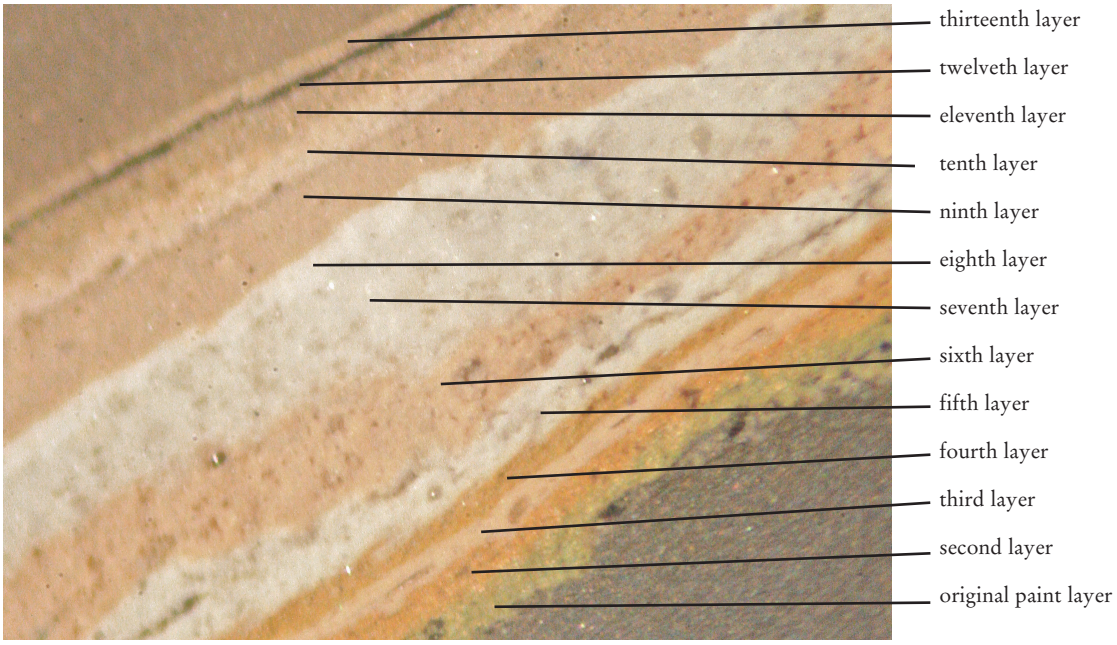
SAMPLE #3 Exterior Property Wall



PLEASE NOTE:
Microphotograph is representative of layering only and is not accurate for color.
Refer to MUNSELL Color and chip sample for true color.

MUNSELL COLOR
hue = 2.5GY
value = 7.5
chroma = 1.9

Light Reflection Value 50

COMMERCIAL COLOR
Dunn Edwards DEC775 Sea Glass

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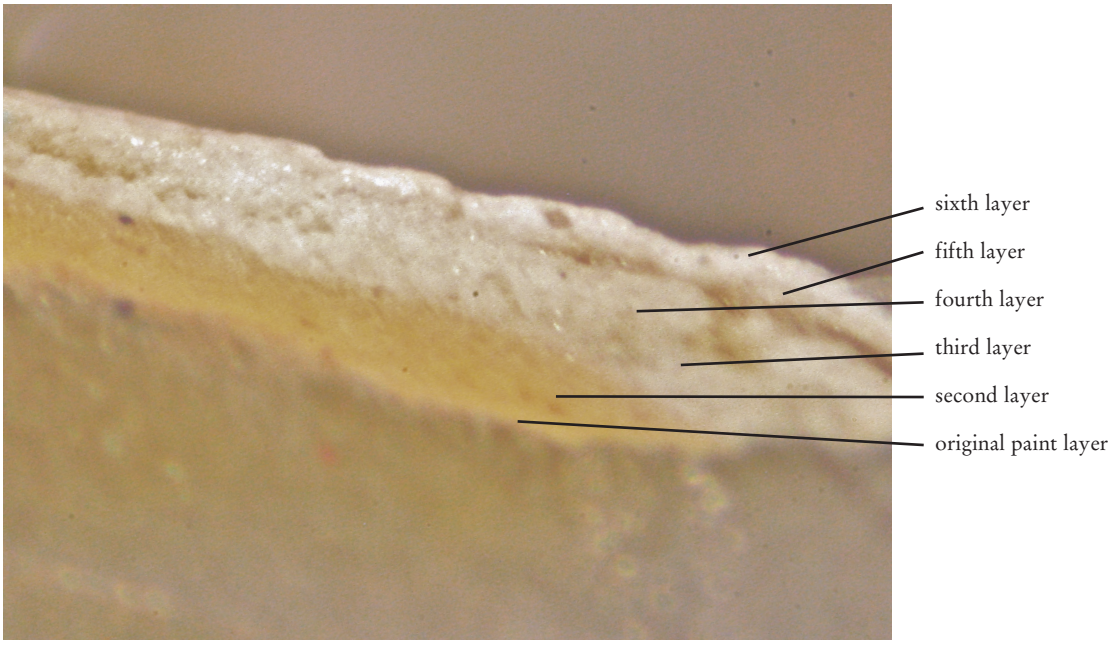
SAMPLE #4 Interior Entry Wall



PLEASE NOTE:
Microphotograph is representative of layering only and is not accurate for color.
Refer to MUNSELL Color and chip sample for true color.

MUNSELL COLOR
hue = 3.67Y
value = 9.1
chroma = 3.4

Light Reflection Value 81

COMMERCIAL COLOR
Dunn Edwards DE5351 Aztec Aura

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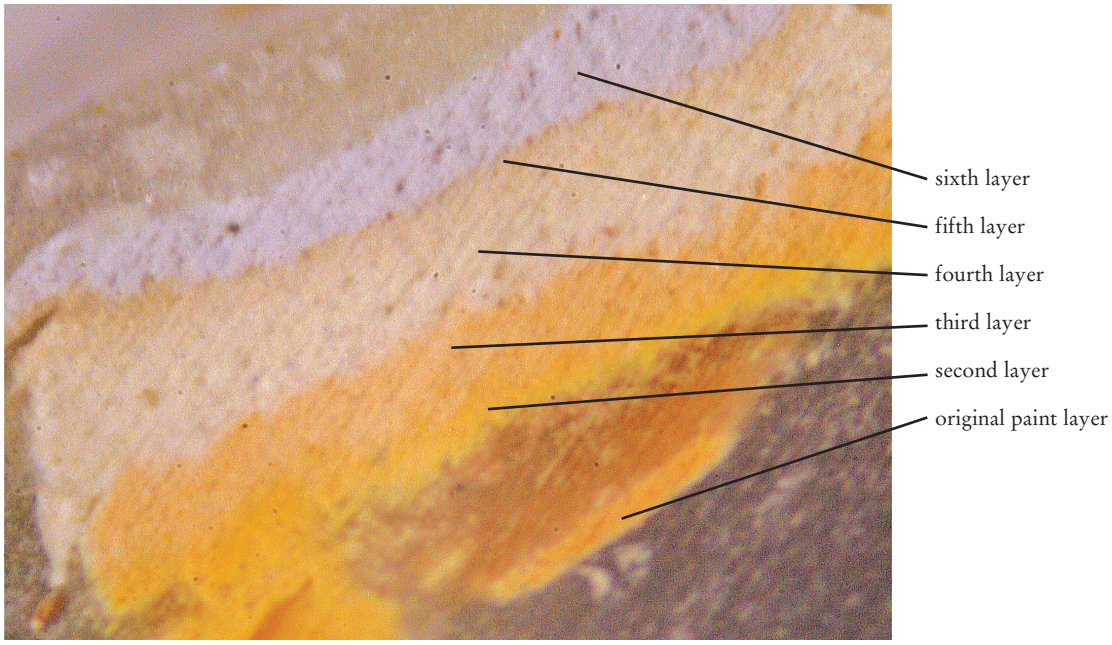
SAMPLE #5 Interior Entry Inset Panel



PLEASE NOTE:
Microphotograph is representative of layering only and is not accurate for color.
Refer to MUNSELL Color and chip sample for true color.

MUNSELL COLOR
hue = 3.19Y
value = 8.7
chroma = 5.0

Light Reflection Value 72

COMMERCIAL COLOR
Dunn Edwards DE5352 Sun Kissed

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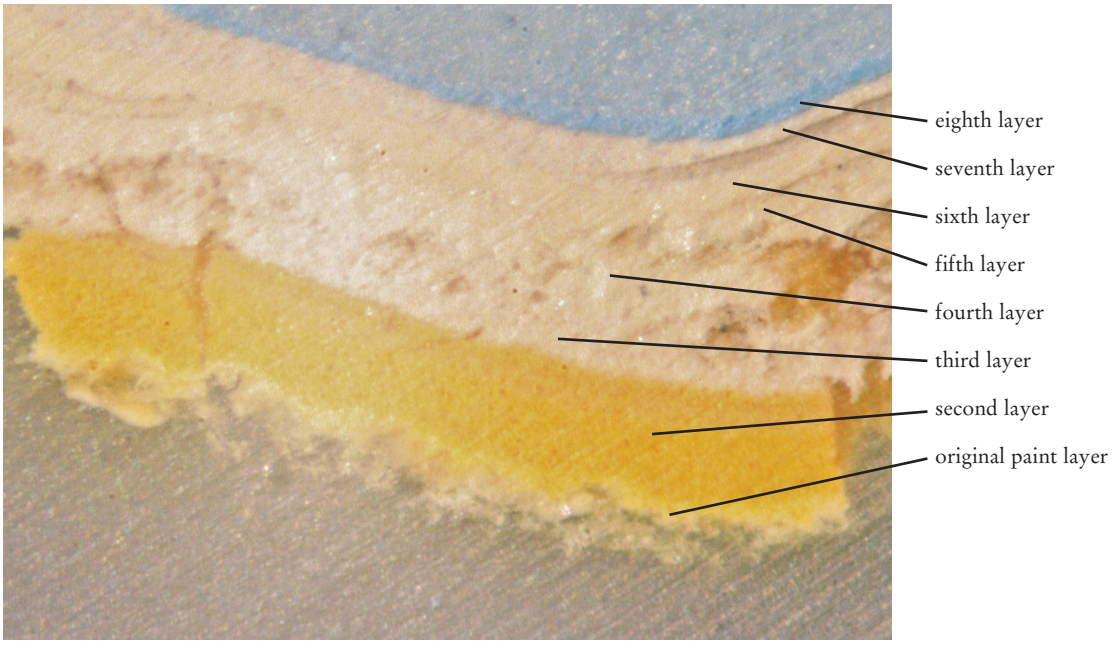
SAMPLE #6 Interior Base Molding



PLEASE NOTE:
Microphotograph is representative of layering only and is not accurate for color.
Refer to MUNSELL Color and chip sample for true color.

MUNSELL COLOR
hue = 3.67Y
value = 9.1
chroma = 3.4

Light Reflection Value 81

COMMERCIAL COLOR
Dunn Edwards DE5351 Aztec Aura

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