# Conservation Report



**Tara Mclaughlin**Structure and Integrity semester 2 2019
3/11/2019

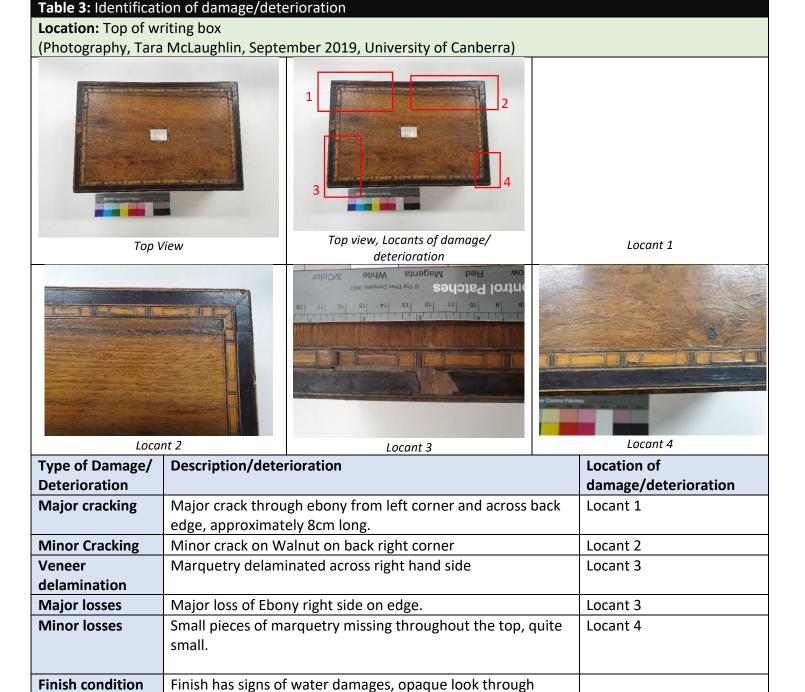
Table 1: Phys	Table 1: Physical Description			
Report condu	ucted by Tara McLaughlin	Additional notes		
Summary	Victorian-era writing slope box, Walnut with Ebony and marquetry lined edge, and a mother of pearl inlay on front and top. This writing box's estimated age is 1860s. This box was most likely a man's, opposed to being owned by a woman as it does not have an inbuilt sewing compartment.			
History	This box was gifted to The Traditional Furniture Restorer			
	in 2013 by Down Memory lane.			
Materials:	Timber, metal, Mother of pearl and leather			
Size:	190mm  Figure 1: Size and measurements diagram			

#### **Significance and values:**

Writing boxes were a person's main source of correspondence and communication throughout the 17<sup>th</sup>-19<sup>th</sup> century. This writing box is compact and portable for travel, it would be considered your personal portable traveling office. The design allows the box to be locked up to keep the owners writing secure, complete with storage for paper, envelopes and other paper work. The box was storage for everything the writer needs including their dip pen and inkwells.

#### **Summary of damage/deterioration:**

The box is constructed by the assembly of a secondary structure with veneer overlay. The cracks and splits throughout the box can be caused by changes in humidity that cause the box to expand and contract repeatedly. The veneer does not contract and expand at the same rate as the secondary timber. The contraction and expansion of the secondary structure has resulted in cracks, bubbles and lifting of the veneer and inlay. The finish on the box is in fair condition. On some sides the finish looks to be affected by water. The finish has not deteriorated to the point of delamination, but has affected the colour as it appears to be opaque in sections.

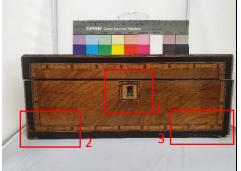


	sections.	
Dirt/Dust	Dirt and dust though out all cracks and over finish.	
Hardware	N/A	N/A

### **Location: Front of writing box**

(Photography, Tara McLaughlin, September 2019, University of Canberra)





Front View

Top view, Locants of damage/ deterioration

Locant 1







Locant 3

Type of	Description/deterioration	Location of	
Damage/Deterior		damage/deterioration	
ation			
Major cracking	Minor crack leading off loss on bottom right corner	Locant 3	
Minor Cracking	N/A		
Veneer	N/A		
delamination			
Major losses	Major chip and loss on bottom right hand corner.	Locant 3	
Minor losses	Ebony has chips and losses on bottom left corner.	Locant 2	
Finish condition	Finish has signs of water damages, opaque look through		
	sections.		
Dirt/Dust	Dirt and dust throughout all cracks and over finish		
Hardware	Mother of pearl escutcheon missing 3cm by 3cm.	Locant 1	

**Location:** Right Side of writing box





Right View

Right view, Locants of damage/ deterioration

Locant 1







Locant 4

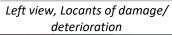
Type of	Description/deterioration	Location of
Damage/Deterior		damage/deterioration
ation		
Major cracking	Crack and loss along the bottom left hand corner.	Locant 3
Minor Cracking	Crack line along the top edge.	Locant 2, locant 1
	Crack along the bottom left hand corner.	Locant 4
Veneer	N/A	
delamination		
Major losses	Loss on bottom right hand corner	Locant 3
Minor losses	Loss on the bottom left hand corner	Locant 4
Finish condition	Good condition	
Dirt/Dust	Dirt and dust though out all cracks and over finish	
Hardware	N/A	
Other	Old repairs on right side of box. These have Deteriorated and	Locant 4
	is delaminating from the under support timbers	
Location: Left side of writing box		

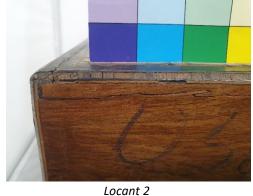






Locant 1







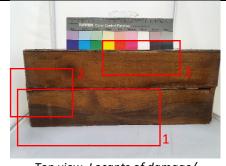


Locant 3	Locant 4

Locuit 2		T
Type of Damage/Deterioration	Description/deterioration	Location of
		damage/deterioration
Major cracking	N/A	
Minor Cracking	Minor crack along the bottom.	Locant 4
	Minor crack along the top.	Locant 2
Veneer delamination	N/A	
Major losses	Loss on top right corner	Locant 3
Minor losses	N/A	
Finish condition	Good condition	
Dirt/Dust	Dirt and dust throughout all cracks and	
	over finish	
Hardware	N/A	
Other	"050" written in black marker on top half.	Locant 1

## Location: Back of writing box





Top view, Locants of damage/ deterioration







	2000110	
Type of Damage/Deterior ation	Description/deterioration	Location of damage/deterioration
Major cracking	N/A	
Minor Cracking	N/A	
Veneer	Old veneer cut in, has lifted across the bottom.	Locant 1
delamination		
Major losses	Major loss of decorative veneered edge	Locant 3
Minor losses	Veneer has been chip on bottom right. This is due to shrinkage of the boxes timber bottom.	Locant 2
Finish condition	Finish has signs of water damages, opaque look through sections.	
Dirt/Dust	Dirt and dust though out all cracks and over finish	
Hardware	N/A	
Other	Old repair on bottom right. 200mm by 50mm triangle time veneer has been cut in.	per Locant 1

# veneer has been cut in. Location: Bottom of writing box



**Bottom View** 



Bottom view, Locants of damage/ deterioration



Locant 1

Type of	Description/deterioration	Location of
Damage/Deterioration		damage/deterioration
Major cracking	N/A	
Minor Cracking	N/A	
Veneer delamination	N/A	
Major losses	Loss on back right corner.	Locant 1
Minor losses	N/A	
Finish condition	N/A	

Dirt/Dust	Dirt and dust throughout all cracks and over finish.	
Hardware	N/A	
Other	Only fragments of green hessian are left on the	
	bottom side.	

# Location: Inside of writing box



Top View



Top view, Locants of damage/ deterioration





Locant 2



Locant 3



Front, Inkwell and pen rest pices



Back. Inkwell and pen rest pices



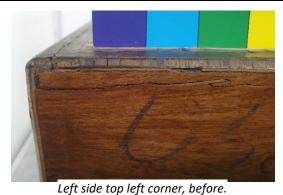


Bottom Slop open

Top slop open

Bottom Siop open		тор зюр ореп		
Type of	Description/deterioration		Location of	
Damage/Deterioration			damage/deterioration	
Major cracking	N/A			
Minor Cracking	N/A			
Veneer delamination	N/A			
Major losses	N/A			
Minor losses	There a	are a few very minor chips throughout	the	Locant 3
	inside (	of the box.		
Finish condition	Good c	condition		
Dirt/Dust	N/A			
Hardware	Missin	Missing key for lock. Lock stuck in locked position.		
	One hi	One hinge in missing. This has been replaced with a		Locant 2
	leather strap.			
Other	Broken	Broken divider between inkwell and pen rest.		Locant 1
Botto		n slope's catch hole has broken out on	the	
	back si	de.		
Botto		n slope has been affected by timber		Figure
	shrinka	nge. This has caused ridges on where th	ne	
leath		sits.		
	The ori	ginal slop covering has been removed	and	
	replaced with a leatherette.			

Table 4. Treat			
Type of damage/ Deterioration	Treatment undertaken  (Photography, Tara McLaughlin, September 2019, University of Canberra)		
Major cracking	Major cracking needed to be stabilised to ensure no future damage occurs. To complete this, a thin peace of cedar has been cut and thicknessed to fit the space. Prior to inserting the thin timber with hide glue into the crack, the crack was cleaned out with a scalpel, this ensured that there was not timber splinted in the space that would affect getting good adhesion on the new timber (Rodd 1976 p122).		
	TIFEN Color Control Patches STRATING Blue Cyan Green Yellow Red Magenta  Major crack on top, Before.	Major crack on top, After	
Minor Cracking/ Timber separation	Minor cracking needed to be stabilised to ensure no future damage occurs. The Minor cracking and timber separation has been found around the base/bottom of the box. The openings were injected with hide glue using a syringe, and then clamped until glue was set.		
	Right side ton right corner hefore	Right side top right corner, after	
	Right side top right corner, before.	kignt side top right corner, after	





Left side top left corner, after.

Veneer and The delaminate veneer and

The delaminate veneer and marquetry has been carefully been lifted as far as the glue has failed. The sections that have bubbled had been trimmed down so that they fit into their original space. This has happened due to shrinkage of the substrate (Rodd 1976 p98). The veneer and marquetry has been injected with hide glue using a syringe, this was the best method as the needle is fine enough to be placed under without causing further damage to the veneer and marquetry (McGiffin 1992 p55). This was then clamped down with Mylar over the box surface and a timber block on top, this allowed for even pressure without the risk of damaging the surface or gluing the timber block to object.





Top right side, before.

Top right side, after.

#### **Major losses**

marquetry

delamination

#### Corners/ Edges

The major losses on comers and edges have been filled with a two pack epoxy putty. This putty dries hard in a short period of time. Therefore, there is no shrinkage. It is well suited for larger holes and edges, corners, moulding and carving. Due to it hardness and flexibility is it well suited to rebuilding edges. The putty once dry can be carved to shape of the loss (Minutillo, 2016)..



 ${\it Example of epoxy putty on edge}.$ 



Right side bottom right edge, before.



Right side bottom right edge, after.

#### Ebony

The major loss of Ebony on top has been filled with button lac. The button lac has been melted into the loss with a soldering iron. The button lac is dark in colour and gives a good base colour for inpainting of the Ebony (Minutillo, 2016).



**Button Lack** 



Front bottom right corner, before.



Front bottom right corner, after.

#### **Minor losses**

#### Infill

All repairs have been infilled with water putty. The join was filled with water putty. This putty is very fine and dries hard. This allows for it to be easily sanded creating a fine finish. The woodstop can be dissolved in water, this allows for easy cleaning without affecting the original finish (Minutillo, 2016). The cut in timber is then able to be grained/in painted.

#### Inpainting/ Graining

To blend repairs they have been grained/inpainted. For the in-painting pigment colours were used to match the original timber. The pigments were dissolved in shellac (Used as a blinder) and methylated spirits used as the thinning agent to ensure good flow of colour (Minutillo, 2016).



#### **Finish**

The box has been finished using traditional French polish methods using shellac. Shellac is a fast-drying evaporative coating characterised by exceptional clarity and depth. It is highly compatible with most other finishes. Due to this the finish is able to be reworked using polish rubbers (Shellac). Shellac consists of resin (orange shellac flake) and alcohol (methylated spirits), mixed at 250g of flake to 1 Litre of methylated spirits. This solution is then diluted dependent on application results. This allowed for the water damage to be softened and draw out the whiting in the finish, while keeping the original patina of box. This will allow a protective seal to the inpainting, and give the inpainting the same shine (Mclaughlin 2019) and (Minutillo 2016).

The finish has then been waxed with dark cabinet wax, this was used to enhance the finish and give it protection for light and use.



Orange shellac flack



Dark cabinet wax

# Dirt/Dust

The box was brush vacuumed, to ensure that all dirt and grit has been removed before any work is done. This included under the lifted veneer and inside the box. The box was cleaned with a mix of diluted soap and water solution. Applied by using a cotton bud. The test to ensure no whiting of finish (Bloom) where moisture could penetrate the finish, was clear. Therefore, using the minimal amount of solution all surfaces where cleaned (McGiffin 1992 p.43).



Inside of box before brush vacuum.

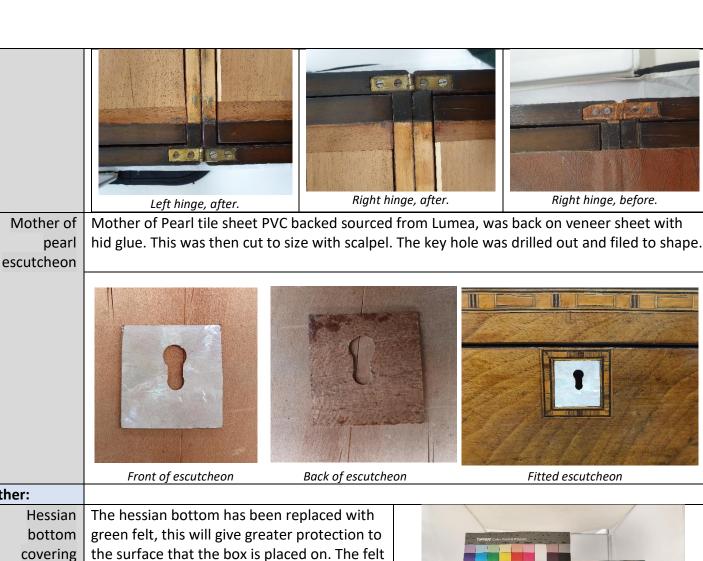
#### Hardware

Lock

Contact with the Key Hole Surgeon Melbourne determined that it is possible to cut a new key for the lock. The lock is currently in Melbourne getting a new key. This lock will be back in Canberra to be fitted mid-November.

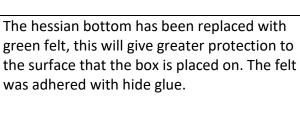
#### Hinge

Both hinges have been replaced. The hinges are original from the same era, that were sourced though Traditional Furniture Restorer. The original hinge was to bent to re straightened so that the box would sit together correctly.





Right hinge, before.



Other:

Divider



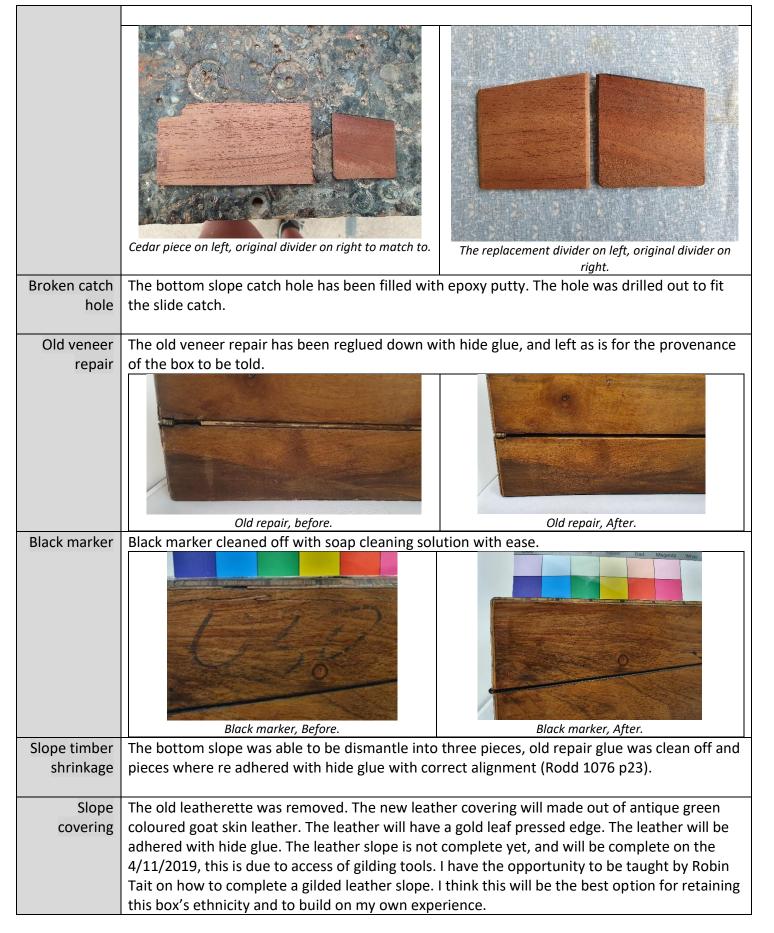
Broken The joint has been cleaned up and resecured divider will hide glue.

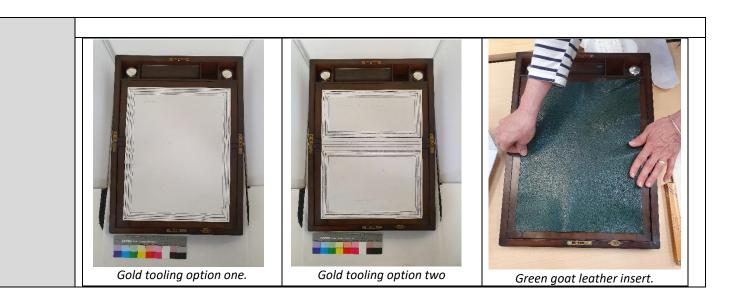
Photo of divider, after.

New divider was cut out of cedar to match original timber. The top edge has been painted Missing with pigments and shellac to blend repair.

Broken divider in clamps.

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#### Assessment of results:

I am satisfied with the outcome of the conservation of the writing box. The method that I used for repairs worked without issues. The box now looks like it has been well looked after and not like it was stored in the shed for the last 20 years. The patina and authenticity have been maintained although extensive repairs had to be undertaken to ensure the sustainability of the veneer and boxes structure. The leather slope covering will be new, but the replacement that had previously been placed in did not fit with the elegance that this writing box holds. In future I would like to use real mother of pearl for keyhole escutcheon. The fake mother of pearl does not hold the same depth of colour and clarity that the original has. The writing box can now be appreciated for the future, and lead to sharing of stories that would have been written on this slope in previous years.







# Care and handling

Bottom Before

Table 4: Recommendation	on for future care and handling
<b>Temperature and</b> The relative humidity level needs to be maintained between the range of 40-	
relative humidity	with a maximum variation of 5% in any 24 hour period. This will minimise any
	damage the veneers and glue. High relative humidity levels and temperature or
	rapid changes will result in lifting, shrinkage, wrapping and cracking (WAM, 2019).
Light	The light level should be maintained at 50 lux to ensure best maintenance of the
	finish. The box should never be exposed to direct sunlight for prolonged period of
	time (WAM, 2019).
Pests	Regular check and inspection of object to ensure no sign of insect attacks (WAM,
	2019).
General	
Storage	This object should be stored in above listed temperature and relative humidity. The
	object should be kept in its archival corrugated carboard box. The box has been

Bottom After

	lined with foam padding covered with tyvek cloth to protect the finish and allow for constant air flow (WAM, 2019).
Display	This object should be displayed on a level surface. The object must be raised on
	padded blocks to ensure good air circulation. This object should be stored in above
	listed temperature and relative humidity (WAM, 2019).

#### References

Minutillo, T. (2016). French Polishing. Head of school.

Mclaughlin, G. (2015). French Polisher. Tradesman.

Rodd, J. (1976). Repairing and restoring antique furniture. Newton Abbot: David and Charles.

MacGiffin, R. (1992). *Furniture care and conservation*. Nashville: American Association for State and Local History.

Western Australian Museum. (2019) Wood. [Online] https://manual.museum.wa.gov.au/book/export/html/121 [Accesced 1/11/2019)