# October 2013 88631 New batch of items for conservation – Mauser fragments. W:\Projects\London Gateway\London Gateway 2012\72439 Materials conservation and recording\72438 Conservation

Tracking: W\*\*\* Ready for long term wet storage.

Tracking.	T			ig term wet storage.
DESCRIPTION	WA NUMBER	INTO FINDS	OUT OF FINDS	COMMENTS
*iron – small part	WA1038_14 1239	20.02.2014	26.08.2015	
iron – 3 pieces (1 very small)	WA1038_15 1240	20.02.2014	26.08.2015	
*iron -	WA1038_16 1241	20.02.2014	26.08.2015	
iron – small part	WA1038_17 1242	20.02.2014	26.08.2015	
*iron – small part, small frag. of wood attached	WA1038_18 1238	20.02.2014	26.08.2015	
iron – barrel plus some portion of pistol	WA1038_19 1243	21.02.2014	26.08.2015	much orange corrosion (removed)
iron – barrel plus substantial portion of pistol	WA1038_20 1244	21.02.2014	26.08.2015	
iron – 1 piece loose but in position	WA1038_21 1245	20.02.2014	26.08.2015	
*iron -	WA1038_35 1259	20.02.2014	26.08.2015	some orange corrosion (removed)
wood -	WA1038_22 1246	21.02.2014	W*** iron salts still present	soft surface, black and orange iron corrosion covering all surfaces
*wood -	WA1038_23 1247	21.02.2014	W*** iron salts still present	soft surface, some damage (missing end), black and orange iron corrosion covering all surfaces
*wood -	WA1038_24 1248	27.08.2014	W*** iron salts still present	some concretion, some wood debris in bag
*wood -	WA1038_25 1249	27.08.2014	present W***	black sediment
*wood -	WA1038_26 1250	27.08.2014	W***	red sediment, some concretion
*wood – frag. of CuA plate + screw attached	WA1038_27 1251	27.08.2014	W*** iron salts still present	
*wood – small frag.	WA1038_28 1252	27.08.2014	W***	
*wood -	WA1038_29 1253	27.08.2014	W***iron salts still present	some concretion
*wood -	WA1038_30 1254	27.08.2014	W***	
*wood – large section of stock	WA1038_31 1255	27.08.2014	W*** iron salts still present	
*wood – 2 end sections of stock concreted together	WA1038_32 1256	27.08.2014	W*** iron salts still present	
wood – part of muzzle end of stock, CuA plate attached with 4 rivets	WA1038_33 1257	27.08.2014	W***	

#### Details:

\* = finished

#### **IRON:**

# \*WA1038 14

Photo's: 1-3 after cleaning

20.02.2014: - as much as possible of loose black corrosion removed with a brush.

- into tap water.

21.02.2014: - flash rusting already occurring, tap water replaced by deoxygenated tap water.

13.03.2014: - some flash rusting (removed).

- salt levels checked, water changed for fresh deoxygenated tap water.

17.04.2014: - little flash rusting (removed).

- salt levels checked, water changed for fresh deoxygenated tap water.

28.05.2014: - some flash rusting (removed).

- salt levels checked, water changed for fresh deoxygenated tap water.

26.06.2014: - some flash rusting (removed).

- salt levels checked, water changed for fresh deoxygenated tap water

31.07.2014: - some flash rusting (removed).

- salt levels checked, water changed for fresh deoxygenated tap water.

26.08.2014: - few spots of flash rusting (removed).

- salt levels checked, water changed for fresh deoxygenated tap water.

29.09.2014: - small amount of flash rusting (removed).

- salt levels checked, water changed for fresh deoxygenated tap water.

31.10.2014: - very little flash rusting (removed).

- salt levels checked, water changed for fresh deoxygenated tap water.

12.11.2014: - flash rusting removed, air dried and into dry box for long term storage.

#### NOT TO BE RETAINED

#### \*WA1038 15

Photo's: 1-3 after cleaning

4&5 after desalination and drying

20.02.2014: - as much as possible of loose black corrosion removed with a

brush.

- into tap water.

21.02.2014: - flash rusting already occurring, tap water replaced by

deoxygenated tap water.

13.03.2014: - some flash rusting (removed).

- salt levels checked, water changed for fresh deoxygenated tap water
- 17.04.2014: much flash rusting (removed).
  - salt levels checked, water changed for fresh deoxygenated tap water.
- 28.05.2014: much flash rusting (removed).
  - part very fragile, detached.
  - salt levels checked, water changed for fresh deoxygenated tap water.
- 26.06.2014: some flash rusting (removed).
  - salt levels checked, water changed for fresh deoxygenated tap water.
- 31.07.2014: more flash rusting (removed).
  - salt levels checked, water changed for fresh deoxygenated tap water
- 26.08.2014: some flash rusting (removed).
  - salt levels checked, water changed for fresh deoxygenated tap water.
- 01.10.2014: flash rusting removed, air dried and into dry box for long term storage.

#### \*WA1038 16

Photo's: 1-3 after cleaning

4&5 after desalination and drying

- 20.02.2014: as much as possible of loose black corrosion removed with a brush.
  - into tap water.
- 21.02.2014: flash rusting already occurring, tap water replaced by deoxygenated tap water.
- 13.03.2014: some flash rusting (removed).
  - salt levels checked, water changed for fresh deoxygenated tap water.
- 17.04.2014: some flash rusting (removed).
  - salt levels checked, water changed for fresh deoxygenated tap water.
- 28.05.2014: much flash rusting (removed).
  - salt levels checked, water changed for fresh deoxygenated tap water
- 26.06.2014: some flash rusting (removed).
  - salt levels checked, water changed for fresh deoxygenated tap water.
- 31.07.2014: much flash rusting (removed).
  - salt levels checked, water changed for fresh deoxygenated tap water.
- 26.08.2014: much flash rusting (removed).
  - salt levels checked, water changed for fresh deoxygenated tap water.
- 29.09.2014: some flash rusting (removed).
  - salt levels checked, water changed for fresh deoxygenated tap

31.10.2014: - some flash rusting (removed).

- salt levels checked, water changed for fresh deoxygenated tap water.

17.12.2014: - much flash rusting (removed).

- salt levels checked, water changed for fresh deoxygenated water.

13.01.2015: - small amount of flash rusting (removed).

- salt levels checked, water changed for fresh deoxygenated water.

22.02.2015: - salt levels checked.

04.03.2015: - flash rusting removed, air dried and into dry box for long term storage.

NOT TO BE RETAINED

#### \*WA1038 17

Photo's: 1&2 after cleaning

3&4 after desalination and drying

20.02.2014: - as much as possible of loose black corrosion removed with a brush.

- into tap water.

21.02.2014: - flash rusting already occurring, tap water replaced by deoxygenated tap water.

13.03.2014: - small amount of flash rusting (removed).

- salt levels checked, water changed for fresh deoxygenated tap water.

17.04.2014: - small amount of flash rusting (removed).

- salt levels checked, water changed for fresh deoxygenated tap water.

28.05.2014: - small amount of flash rusting (removed).

- salt levels checked, water changed for fresh deoxygenated tap water.

26.06.2014: - small amount of flash rusting (removed).

- salt levels checked, water changed for fresh deoxygenated tap water.

31.07.2014: - small amount of flash rusting (removed).

- salt levels checked, water changed for fresh deoxygenated tap water

26.08.2014: - some flash rusting (removed).

- salt levels checked, water changed for fresh deoxygenated tap water.

01.10.2014: - flash rusting removed, air dried and into dry box for long term storage.

#### \*WA1038 18

Photo's: 1&2 after cleaning

3&4 after desalination and drying

20.02.2014: - as much as possible of loose black corrosion removed with a

brush.

- into tap water.

21.02.2014: - flash rusting already occurring, tap water replaced by deoxygenated tap water.

13.03.2014: - small amount of flash rusting (removed).

- salt levels checked, water changed for fresh deoxygenated tap water.

17.04.2014: - small amount of flash rusting (removed).

- salt levels checked, water changed for fresh deoxygenated tap water.

28.05.2014: - small amount of flash rusting (removed).

- salt levels checked, water changed for fresh deoxygenated tap water.

26.06.2014: - small amount of flash rusting (removed).

- salt levels checked, water changed for fresh deoxygenated tap water.

31.07.2014: - small amount of flash rusting (removed).

- salt levels checked, water changed for fresh deoxygenated tap water

26.08.2014: - few spots of flash rusting (removed).

- salt levels checked, water changed for fresh deoxygenated tap water.

01.10.2014: - flash rusting removed, air dried and into dry box for long term storage.

#### NOT TO BE RETAINED

#### \*WA1038 19

Photo's: 1-4 after cleaning

5-7 after desalination and drying

21.02.2014: - as much as possible of orange corrosion and loose black corrosion removed with a brush.

- into deoxygenated tap water.

13.03.2014: - some flash rusting (removed).

- salt levels checked, water changed for fresh deoxygenated tap water.

17.04.2014: - some flash rusting (removed).

- salt levels checked, water changed for fresh deoxygenated tap water

28.05.2014: - some flash rusting (removed).

- salt levels checked, water changed for fresh deoxygenated tap water.

26.06.2014: - small amount of flash rusting (removed).

- salt levels checked, water changed for fresh deoxygenated tap water.

31.07.2014: - more flash rusting (removed).

- salt levels checked, water changed for fresh deoxygenated tap water.

26.08.2014: - few spots of flash rusting (removed).

- salt levels checked, water changed for fresh deoxygenated tap

29.09.2014: - small amount of flash rusting (removed).

- salt levels checked, water changed for fresh deoxygenated tap water.

31.10.2014: - some flash rusting (removed).

- salt levels checked, water changed for fresh deoxygenated tap water.

17.12.2014: - some flash rusting (removed).

- salt levels checked, water changed for fresh deoxygenated tap water.

13.01.2015: - little flash rusting (removed).

- salt levels checked, water changed for fresh deoxygenated water.

22.02.2015: - salt levels checked.

04.03.2015: - flash rusting removed, air dried and into dry box for long term storage.

# \*WA1038 20

Photo's: 1-3 after cleaning

4&5 after desalination and drying

21.02.2014: - as much as possible of loose black corrosion removed with a brush.

- into deoxygenated tap water.

13.03.2014: - small amount of flash rusting (removed).

- salt levels checked, water changed for fresh deoxygenated tap water.

17.04.2014: - some flash rusting (removed).

- salt levels checked, water changed for fresh deoxygenated tap water.

28.05.2014: - some flash rusting (removed).

- salt levels checked, water changed for fresh deoxygenated tap water.

26.06.2014: - small amount of flash rusting (removed).

- salt levels checked, water changed for fresh deoxygenated tap water.

31.07.2014: - some flash rusting (removed).

- salt levels checked, water changed for fresh deoxygenated tap water

26.08.2014: - few spots of flash rusting (removed).

- salt levels checked, water changed for fresh deoxygenated tap water.

29.09.2014: - small amount of flash rusting (removed).

- salt levels checked, water changed for fresh deoxygenated tap water.

31.10.2014: - small amount of flash rusting (removed).

- salt levels checked, water changed for fresh deoxygenated tap water.

17.12.2014: - small amount of flash rusting (removed).

- salt levels checked, water changed for fresh deoxygenated tap

13.01.2015: - little flash rusting (removed).

- salt levels checked, water changed for fresh deoxygenated water.

22.02.2015: - salt levels checked.

04.03.2015: - flash rusting removed, air dried and into dry box for long term storage.

# \*WA1038\_21

Photo's: 1-4 after cleaning

5-8 after desalination and drying

20.02.2014: - as much as possible of loose black corrosion removed with a brush.

- into tap water.

21.02.2014: - flash rusting already occurring, tap water replaced by deoxygenated tap water.

13.03.2014: - some flash rusting to top surface (removed).

- salt levels checked, water changed for fresh deoxygenated tap water.

17.04.2014: - a large amount of flash rusting (removed).

- salt levels checked, water changed for fresh deoxygenated tap water.

28.05.2014: - much flash rusting (removed).

- salt levels checked, water changed for fresh deoxygenated tap water.

26.06.2014: - much flash rusting (removed).

- salt levels checked, water changed for fresh deoxygenated tap water

31.07.2014: - much flash rusting (removed).

- salt levels checked, water changed for fresh deoxygenated tap water.

26.08.2014: - much flash rusting(removed).

- salt levels checked, water changed for fresh deoxygenated tap water.

29.09.2014: - much flash rusting (removed).

- salt levels checked, water changed for fresh deoxygenated tap water.

31.10.2014: - much flash rusting (removed).

- salt levels checked, water changed for fresh deoxygenated tap water.

17.12.2014: - much flash rusting (removed).

- salt levels checked, water changed for fresh deoxygenated tap water.

13.01.2015: - some flash rusting (removed).

- salt levels checked, water changed for fresh deoxygenated tap water.

22.02.2015: - salt levels checked.

04.03.2015: - much flash rusting (removed).

- water changed for fresh deoxygenated water.

10.04.2015: - salt levels checked.

23.04.2015: - some flash rusting (removed).

- water changed for fresh deoxygenated water.

20.05.2015: - salt levels checked.

- very small amount of flash rusting (removed).

- water changed for fresh deoxygenated water.

18.06.2015: - salt levels checked.

- much flash rusting (removed).

- water changed for fresh deoxygenated water.

15.07.2015: - salt levels checked.

- much flash rusting (removed).

- water changed for fresh deoxygenated water.

14.08.2015: - salt levels checked.

- some flash rusting (removed).

- water changed for fresh deoxygenated water.

20.08.2015: - even though salt levels not quite comparable to tap water, to avoid further flash rusting - flash rusting removed, air dried and into dry box for long term storage.

# \*WA1038 35

Photo's: 1-3 after cleaning

4&5 after desalination and drying.

20.02.2014: - as much as possible of orange corrosion and loose black

corrosion removed with a brush.

- into tap water.

21.02.2014: - flash rusting already occurring, tap water replaced by

deoxygenated tap water.

13.03.2014: - some flash rusting to top surface (removed).

- salt levels checked, water changed for fresh deoxygenated tap

water.

17.04.2014: - a large amount of flash rusting (removed).

- salt levels checked, water changed for fresh deoxygenated tap

water.

28.05.2014: - much flash rusting (removed).

- salt levels checked, water changed for fresh deoxygenated tap

water.

26.06.2014: - some flash rusting (removed).

- salt levels checked, water changed for fresh deoxygenated tap

water.

31.07.2017: - much flash rusting (removed).

- salt levels checked, water changed for fresh deoxygenated tap

water.

26.08.2014: - few spots of flash rusting (removed).

- salt levels checked, water changed for fresh deoxygenated tap

water.

29.09.2014: - some flash rusting (removed).

- salt levels checked, water changed for fresh deoxygenated tap

water.

31.10.2014: - some flash rusting (removed).

- salt levels checked, water changed for fresh deoxygenated tap water

17.12.2014: - some flash rusting (removed).

- salt levels checked, water changed for fresh deoxygenated tap water.

13.01.2015: - small amount of flash rusting (removed).

- salt levels checked, water changed for fresh deoxygenated tap water.

22.02.2015: - salt levels checked.

04.03.2015: - small amount of flash rusting (removed).

- water changed for fresh deoxygenated water.

10.04.2015: - salt levels checked.

23.04.2015: - small amount of flash rusting (removed).

- water changed for fresh deoxygenated water.

20.05.2015: - salt levels checked.

- very small amount of flash rusting (removed).

- water changed for fresh deoxygenated water.

18.06.2015: - salt levels checked.

- very small amount of flash rusting (removed).

- water changed for fresh deoxygenated water.

15.07.2015: - salt levels checked.

- flash rusting removed, air dried and into dry box for long term storage.

#### NOT TO BE RETAINED

# Chloride monitoring:

Using 1% silver nitrate, comparing sample with tap water.

#### If tap water is 1:

Date	14	15	16	17	18	19	20	21	35
13.03.2014	3	1	3	0.5	0.5	2	1	3	2
17.04.2014	2	1.5	2	1.5	1.5	1.5	1.5	2	1.5
28.05.2014	1.5	1	1.5	1	1	1.5	1.5	1	1
26.06.2014	1.5	1	2	1	1	1.5	1.5	3	1.5
31.07.2014	1	0.5	2	1	1	1	1	2	2
26.08.2014	1	1	2.5	1	1	1.5	1.5	2	2
29.09.2014	1	finished	missing reading	finished	finished	missing reading	1	5	2
31.10.2014	1		2			2	2	1.5	2
	finished								
17.12.2014			3			2	2	5	3
13.01.2015			1			1	1	3	1
22.02.2015			1			1	1	3	2
04.03.2015			finished			finished	finished		
10.04.2015								2	1.5
20.05.2015								1.5	1
18.06.2015								1.5	1
15.07.2015								1.5	finished
14.08.2015								1.5	
20.08.2015								taken	
								out	

#### WATER NOTES:

17.04.2014: - all small boxes (14-18, 21, 35) same batch, lukewarm.

- larger boxes (19 & 20) same batch, hot.

31.07.2014: - all boxes same batch, water left over night before use.

26.08.2014: - less flash rusting from last time.

- new batch left no more than few hours, water for higher numbers fairly hot.

29.09.2014: - 14, 16, 19, 21 & 35 old water deoxygenated a couple of weeks before.

- 20 half old, half cold fresh deoxygenated.

17.12.2014: - all fresh hot deoxygenated water.

13.01.2015: - all fresh hot deoxygenated water.

20.05.2015: - fresh boiling deoxygenated water.

18.06.2015: - fresh boiling deoxygenated water.

WOOD:	
WA1038_22	
Photo's:	1&2 after cleaning
21.02.2014:	- as much as possible of iron corrosion (black and orange) removed with a soft brush.
	- into deoxygenated tap water.
07.03.2014:	- iron salts in water very bad (removed).
12.02.2014.	- water replaced temporarily with tap water.
13.03.2014.	<ul><li>some iron salts (removed).</li><li>salt levels checked, water changed for fresh deoxygenated tap water.</li></ul>
17 04 2014	- a large amount of iron salts (removed).
17.04.2014.	Salt levels checked, water changed for fresh deoxygenated tap water.
20 05 2014.	
26.05.2014:	<ul> <li>a large amount of iron salts (removed).</li> <li>salt levels checked, water changed for fresh deoxygenated tap</li> </ul>
	water.
31.07.2014:	- small amount of iron salts (removed).
	- salt levels checked, water changed for fresh deoxygenated tap
	water.
26.08.2014:	- small amount of iron salts (removed).
	- salt levels checked, water changed for fresh deoxygenated tap
	water.
01.10.2014:	- some iron salts still present (removed).
	- salt levels not checked as down to acceptable levels, but water
	changed for fresh deoxygenated water to carry on removing iron
	salts.
03 11 2014	- some iron salts present (removed).
03.11.2014.	- water changed for fresh tap water.
17 10 0014	
17.12.2014.	- some iron salts present (removed).
10.01.0015	- water changed for fresh tap water.
13.01.2015:	- some iron salts present (removed).
	- water changed for fresh tap water.
05.03.2015:	- some iron salts present (removed).
	- water changed for fresh tap water.
23.04.2015:	- large amounts of iron salts present (removed)
	- water changed for fresh tap water.
21.05.2015:	- some iron salts present (removed).
	- water changed for fresh tap water.
18.06.2015:	- small amount of iron salts present (removed).
.0.00.20.01	- water changed for fresh tap water.
16 07 2015	- small amount of iron salts present (removed).
. 5.57 . 2010.	
14 08 2015	·
14.00.2013.	- small amount of fron saits present (removed) musty smell.
14.08.2015:	<ul><li>- water changed for fresh tap water.</li><li>- small amount of iron salts present (removed).</li><li>- musty smell.</li></ul>

- water changed for fresh tap water.

24.09.2015: - small amount of iron salts present (removed).

- water changed for fresh tap water.

20.10.2015: - small amount of iron salts present (removed).

- musty smell.
- water changed for fresh tap water.
- 10.12.2015: small amount of iron salts present (removed).
  - water changed for fresh tap water.
- 27.01.2016: small amount of iron salts present (removed).
  - water changed for fresh tap water.

# WA1038 23

- Photo's: 1-3 after cleaning
- 21.02.2014: as much as possible of iron corrosion (black and orange)
  - removed with a soft brush.
  - into deoxygenated tap water.
- 07.03.2014: iron salts in water very bad (removed).
  - water replaced temporarily with tap water.
- 13.03.2014: small amount of iron salts (removed).
  - salt levels checked, water changed for fresh deoxygenated tap water.
- 17.04.2014: a large amount of iron salts (removed).
  - Salt levels checked, water changed for fresh deoxygenated tap water.
- 28.05.2014: large amount of iron salts (removed).
  - salt levels checked, water changed for fresh deoxygenated tap water
- 31.07.2014: large amount of iron salts (removed).
  - salt levels checked, water changed for fresh deoxygenated tap water.
- 26.08.2014: large amount of iron salts (removed).
  - salt levels checked, water changed for fresh deoxygenated tap water.
- 29.09.2014: large amount of iron salts (removed).
  - salt levels checked, water changed for fresh deoxygenated tap water.
- 03.11.2014: some iron salts present (removed).
  - salt levels checked, water changed for fresh tap water.
- 17.12.2014: large amount of iron salts still present (removed).
  - salt levels not checked as down to acceptable levels, but water changed for fresh tap water to carry on removing iron salts
- 13.01.2015: some iron salts present (removed).
  - water changed for fresh tap water.
- 05.03.2015: some iron salts present (removed).
  - water changed for fresh tap water.
- 23.04.2015: large amounts of iron salts present (removed)
  - water changed for fresh tap water.
- 21.05.2015: large amounts of iron salts (removed).
  - water changed for fresh tap water.
- 18.06.2015: some iron salts present (removed).
  - water changed for fresh tap water.
- 16.07.2015: some iron salts present (removed).

- water changed for fresh tap water.

14.08.2015: - some iron salts present (removed).

- water changed for fresh tap water.

24.09.2015: - some iron salts present (removed).

- water changed for fresh tap water.

20.10.2015: - some iron salts present (removed).

- water changed for fresh tap water.

10.12.2015: - large amount of iron salts present (removed).

- very small amount of slime (removed).

- water changed for fresh tap water.

#### NOT TO BE RETAINED

# WA1038 24

Photo's: 1 & 2 after cleaning

27.08.2014: - as much as possible of iron corrosion (black and orange)

removed with a soft brush. As much as possible of sediment

removed with wooden point, some concretion left.

- into deoxygenated tap water.

29.09.2014: - large amount of iron salts (removed).

- salt levels checked, water changed for fresh deoxygenated tap

water.

03.11.2014: - large amount of iron salts (removed).

- salt levels checked, water changed for fresh tap water.

17.12.2014: - some iron salts (removed).

- salt levels checked, water changed for fresh tap water.

13.01.2015: - very little iron salts present (removed).

- salt levels not checked as down to acceptable levels, but water

changed for fresh tap water to carry on removing iron

salts.

05.03.2015: - large amounts of iron salts present (removed).

- water changed for fresh tap water.

23.04.2015: - large amounts of iron salts present (removed)

- water changed for fresh tap water.

21.05.2015: - some iron salts present (removed).

- water changed for fresh tap water.

18.06.2015: - some iron salts present (removed).

- water changed for fresh tap water.

16.07.2015: - some iron salts present (removed).

- water changed for fresh tap water.

14.08.2015: - some iron salts present (removed).

- water changed for fresh tap water.

24.09.2015: - some iron salts present (removed).

- water changed for fresh tap water.

20.10.2015: - some iron salts present (removed).

- water changed for fresh tap water.

10.12.2015: - large amount of iron salts present (removed).

- water changed for fresh tap water.

#### NOT TO BE RETAINED

### WA1038 25

Photo's: 1 & 2 after cleaning

27.08.2014: - as much as possible of iron corrosion (black and orange)

removed with a soft brush. As much as possible of sediment

removed with wooden point.

- into deoxygenated tap water.

29.09.2014: - large amount of iron salts (removed).

- salt levels checked, water changed for fresh deoxygenated tap

water.

03.11.2014: - some iron salts present (removed).

- salt levels checked, water changed for fresh tap water.

17.12.2014: - some iron salts (removed).

- salt levels checked, water changed for fresh tap water.

13.01.2015: - very little iron salts present (removed).

- salt levels not checked as down to acceptable levels, but water

changed for fresh tap water to carry on removing iron

salts.

05.03.2015: - very little iron salts present (removed).

- water changed for fresh tap water.

23.04.2015: - small amount of iron salts present (removed).

- water changed for fresh tap water.

21.05.2015: - no iron salts present.

- water changed for fresh tap water.

#### NOT TO BE RETAINED

#### WA1038 26

Photo's: 1 & 2 after cleaning

27.08.2014: - as much as possible of iron corrosion (black and orange)

removed with a soft brush.

- into deoxygenated tap water.

29.09.2014: - no iron salts present.

- salt levels checked, water changed for fresh deoxygenated tap

water.

03.11.2014: - no iron salts present.

- salt levels checked, water changed for fresh tap water.

17.12.2014: - no iron salts present.

- salt levels checked, water changed for fresh tap water.

13.01.2015: - salt levels not checked as down to acceptable levels, but water

changed for fresh tap water.

# NOT TO BE RETAINED

#### WA1038 27

Photo's: 1-3 after cleaning

27.08.2014: - as much as possible of iron corrosion (black and orange)

removed with a soft brush.

- into deoxygenated tap water.

29.09.2014: - large amount of iron salts (removed).

- salt levels checked, water changed for fresh deoxygenated tap water

03.11.2014: - some iron salts (removed).

- salt levels checked, water changed for fresh tap water.

17.12.2014: - large amount of iron salts still present and possibly biological growth (all removed).

- salt levels not checked as down to acceptable levels, but water changed for fresh tap water to carry on removing iron salts.

13.01.2015: - small amount of iron salts present (removed).

- water changed for fresh tap water.

05.03.2015: - small amount of iron salts present (removed).

- water changed for fresh tap water.

23.04.2015: - some iron salts present & some slime growth (both removed)

- water changed for fresh tap water.

21.05.2015: - small amount of iron salts present (removed).

some biological growth (removed).water changed for fresh tap water.

18.06.2015: - small amount of iron salts present (removed).

- some biological growth (removed).

- water changed for fresh tap water.

16.07.2015: - small amount of iron salts present (removed).

- some biological growth (removed).

- water changed for fresh tap water.

14.08.2015: - small amount of iron salts present (removed).

- some biological growth (removed).

- water changed for fresh tap water.

24.09.2015: - small amount of iron salts present (removed).

- some biological growth (removed).

- water changed for fresh tap water.

20.10.2015: - very small amount of iron salts present (removed).

- some biological growth (removed).

- water changed for fresh tap water.

10.12.2015: - small amount of iron salts present (removed).

- some slime present (removed).

- water changed for fresh tap water.

# NOT TO BE RETAINED

# WA1038\_28

Photo's: 1 & 2 after cleaning

27.08.2014: - as much as possible of iron corrosion (black and orange)

removed with a soft brush.

- into deoxygenated tap water.

29.09.2014: - very small amount of iron salts present (removed).

- salt levels checked, water changed for fresh deoxygenated tap

water.

03.11.2014: - no iron salts present.

- salt levels checked, water changed for fresh tap water.

17.12.2014: - no iron salts present.

- salt levels not checked as down to acceptable levels, but water changed for fresh tap water.

13.01.2015: - water changed for fresh tap water.

NOT TO BE RETAINED

# WA1038 29

Photo's: 1-3 after cleaning

27.08.2014: - as much as possible of iron corrosion (black and orange)

removed with a soft brush.

- into deoxygenated tap water.

29.09.2014: - very large amount of iron salts present (removed).

- salt levels checked, water changed for fresh deoxygenated tap

water.

03.11.2014: - large amount of iron salts present (removed).

- salt levels checked, water replaced with fresh tap water.

17.12.2014: - large amount of iron salts present (removed).

- salt levels checked, water replaced with fresh tap water.

13.01.2015: - large amount of iron salts (removed).

- salt levels checked, water replaced with fresh tap water.

22.02.2015: - salt levels checked and down to acceptable levels.

04.03.2015: - large amounts of iron salts (removed).

- water changed for fresh tap water.

23.04.2015: - large amounts of iron salts present (removed)

- water changed for fresh tap water.

21.05.2015: - large amounts of iron salts present (removed).

- water changed for fresh tap water.

18.06.2015: - some iron salts present (removed).

- water changed for fresh tap water.

16.07.2015: - some iron salts present (removed).

- water changed for fresh tap water.

14.08.2015: - large amounts of iron salts present (removed).

- water changed for fresh tap water.

24.09.2015: - large amounts of iron salts present (removed).

- water changed for fresh tap water.

20.10.2015: - some iron salts present (removed).

- water changed for fresh tap water.

10.12.2015: - large amount of iron salts present (removed).

- water changed for fresh tap water.

#### NOT TO BE RETAINED

#### WA1038 30

Photo's: 1 & 2 after cleaning

27.08.2014: - as much as possible of iron corrosion (black and orange)

removed with a soft brush.

- into deoxygenated tap water.

29.09.2014: - large amount of iron salts present (removed).

- salt levels checked, water changed for fresh deoxygenated tap

water.

03.11.2014: - some iron salts present (removed).

- salt levels checked, water replaced with fresh tap water.

17.12.2014: - small amount of iron salts present (removed).

- salt levels not checked as down to acceptable levels, but water changed for fresh tap water to carry on removing iron

salts.

13.01.2015: - very small amount of iron salts present (removed).

- water changed for fresh tap water.

05.03.2015: - very small amount of iron salts present (removed).

- water changed for fresh tap water.

23.04.2015: - very small amount of iron salts present (removed)

- water changed for fresh tap water.

21.05.2015: - no iron salts present.

- water changed for fresh tap water.

#### NOT TO BE RETAINED

#### WA1038 31

Photo's: 1 & 2 after cleaning

27.08.2014: - as much as possible of iron corrosion (black and orange)

removed with a soft brush. As much as possible of sediment

removed with wooden point.
- into deoxygenated tap water.

30.10.2014: - some iron salts present (removed).

- salt levels checked, water changed for fresh deoxygenated

water.

03.11.2014: - some iron salts present (removed).

- salt levels checked, water replaced with fresh tap water.

17.12.2014: - some iron salts present (removed).

- salt levels not checked as down to acceptable levels, but water

changed for fresh tap water to carry on removing iron

salts.

13.01.2015: - small amount of iron salts present (removed).

- water changed for fresh tap water.

05.03.2015: - small amount of iron salts present (removed).

- water changed for fresh tap water.

23.04.2015: - some iron salts present (removed)

- water changed for fresh tap water.

21.05.2015: - small amount of iron salts present (removed).

- water changed for fresh tap water.

18.06.2015: - small amount of iron salts present (removed).

- water changed for fresh tap water.

16.07.2015: - very small amount of iron salts present (removed).

- water changed for fresh tap water.

14.08.2015: - very small amount of iron salts present (removed).

- water changed for fresh tap water.

24.09.2015: - very small amount of iron salts present in inside (removed).

- water changed for fresh tap water.

20.10.2015: - very small amount of iron salts present (removed).

- water changed for fresh tap water.

10.12.2015: - very small amount of iron salts present (removed).

- water changed for fresh tap water.

#### NOT TO BE RETAINED

# WA1038\_32

Photo's: 1 & 2 after cleaning

27.08.2014: - as much as possible of iron corrosion (black and orange)

removed with a soft brush. As much as possible of sediment

removed with wooden point.

- into deoxygenated tap water.

30.10.2014: - some iron salts present (removed).

- salt levels checked, water changed for fresh deoxygenated

water.

03.11.2014: - small amount of iron salts present (removed).

- salt levels checked, water changed for fresh tap water.

17.12.2014: - small amount of iron salts present (removed).

- salt levels checked, water replaced with fresh tap water.

13.01.2015: - small amount of iron salts present (removed).

- salt levels not checked, but water changed for fresh tap water

to carry on removing iron salts.

05.03.2015: - small amount of iron salts present (removed).

- water changed for fresh tap water.

23.04.2015: - small amount of iron salts present (removed)

- water changed for fresh tap water.

21.05.2015: - very small amount of iron salts present (removed).

- water changed for fresh tap water.

18.06.2015: - very small amount of iron salts present (removed).

- water changed for fresh tap water.

16.07.2015: - small amount of iron salts present (removed).

- water changed for fresh tap water.

14.08.2015: - very small amount of iron salts present (removed).

- water changed for fresh tap water.

24.09.2015: - very small amount of iron salts present in two areas (removed).

- water changed for fresh tap water.

20.10.2015: - very small amount of iron salts present (removed).

- water changed for fresh tap water.

10.12.2015: - very small amount of iron salts present (removed).

- water changed for fresh tap water.

#### NOT TO BE RETAINED

#### WA1038 33

Photo's: 1 & 2 after cleaning

27.08.2014: - as much as possible of iron corrosion (black and orange)

removed with a soft brush. As much as possible of sediment

removed with wooden point.

- into deoxygenated tap water.

30.10.2014: - some iron salts present (removed).

- salt levels checked, water changed for fresh deoxygenated

03.11.2014: - small amount of iron salts present (removed).

- salt levels checked, water changed for fresh tap water.

17.12.2014: - small amount of iron salts present (removed).

- salt levels not checked as down to acceptable levels, but water

changed for fresh tap water to carry on removing iron

salts.

13.01.2015: - no iron salts present.

- water changed for fresh tap water.

27.01.2015: - OK.

# Chloride monitoring:

Using 1% silver nitrate, comparing sample with tap water.

#### If tap water is 1:

Date	22	23	24	25	26	27	28	29	30	31	32	33
03.03.2014	1	2										
17.04.2014	1	1										
28.05.2014	1	1										
31.07.2014	0.5	1										
26.08.2014	1	1										
29.09.2014	finished	missing reading	2	2	1.5	1	1	3	1	1.5	1.5	1
03.11.2014		1	1	1	1	1	1	1.5	0.5	0.5	1	1
		finished				finished	finished		finished	finished		finished
17.12.2014			1	1	1			2			1	
			finished	finished	finished						finished	
13.01.2015								1				
22.02.2015								1				
04.03.2015								finished				

#### WATER NOTES:

17.04.2014: - 22 & 23 same batch, hot.

31.07.2014: - 22 & 23 same batch, left over night before use.

26.08.2014: - 22 & 23 same batch, fairly hot.

29.09.2014: - 23 old water deoxygenated a couple of

weeks before.

- 24 – 27 cold fresh deoxygenated.

- 28 – 30 half cold, half hot deoxygenated.

- 31 – 33 half cold from day before, half fresh hot deoxygenated.

03.11.2014: - all replaced with tap water.

17.12.2014: - all replaced with tap water.

13.01.2015: - all replaced with tap water.