

ROYAL GUNPOWDER MILLS  
WALTHAM ABBEY

STRUCTURE SUMMARY SHEETS  
PHASE 1 BUILDINGS

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# STRUCTURE SUMMARY SHEETS

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## Waltham Abbey Royal Gunpowder Mills

### STRUCTURE SUMMARY SHEET

Structure No: A200  
 Structure Name: Walton House  
 Structure Type: Building  
 Structure Date/Status: Before 1787/SAM, Listed Grade II  
 Grid Reference: TL 37710 00958

Date: November 1998  
 Rev:

Preservation Strategy:	Restore
Construction:	<p>Rectangular 2 storey Flemish bond multistock brick building comprising 3 bays x 2, the long side orientated N-S (northern bay later than other 2). Extended in yellow stocks to NE side, and also to S. Latter extension then added on to E side forming a "U" shape.</p> <p>Services tower built in SE angle.</p> <p>Flat arches generally; 3 on 6 sashes survive on first floor N and W side. Blind arch to GF (original ?).</p> <p>Generally 6 on 6 sashes, and some casements and large plate glass sashes.</p> <p>Door to W elevation and new door inserted to W side of SW extension (in window position).</p> <p>Hipped slate roofs but flat roof to services tower.</p> <p><u>Externally</u></p> <p>Internally, staircase to E served 2 rooms on each floor; present late 20th century replacement inappropriate.</p> <p>Much replastering of walls and ceiling and replacement of timber floors; inappropriate carpentry to panelling, windows etc.</p> <p>18th century doors survived to original SW rooms; skirting to GF; part cornice to GF (and FF stairwell); hob grate only to GF; shutters to GF.</p> <p>Simple (mainly slate) Victorian fireplaces survive.</p> <p><u>Fittings</u></p> <p>Stone shield on W elevation.</p>
Condition:	Fair
Stability:	Good
Health and Safety:	Missing floorboards

Record Information:

1998 Bat Survey – Significant Bat Roosts

Bats under lead flashing and ridge of slate roof with a few droppings internally, from pipistrelle and brown long-eared. Access under eaves and slates.

# Waltham Abbey Royal Gunpowder Mills

## STRUCTURE SUMMARY SHEET

Structure No: A201  
Structure Name: Surgery  
Structure Type: Building  
Structure Date/Status: SAM, Listed Grade II\*  
Grid Reference: TL 37688 00950

Date: September 1998  
Rev:

Preservation Strategy:	Restore
Construction:	<p><u>EXTERNALLY</u> Buildings A201 and A202 are adjacent. Flemish bond multistock brick, single storey structures. The south building A202 is square and is attached via a link passage to the middle and N rectangular buildings, collectively called A 201. Four timber casements to A201 W elevation and links; 2 strip metal windows to A202. On E side, 2 casements and an 18th century door (blocked inside) to A202; door to link; 3 casements and 2 doors (one blocked) to A201. Some flat arches; otherwise concrete or timber lintels to openings; some stone sills. Offset plinth; corbelled eaves to all walls. Pyramidal slate roof to A202; boarded ceiling obscures roof trusses. Flat roof to link. Hipped slate roofs to each room of A201 with lead valley over brick dividing wall. Plastic gutters.</p> <p><u>INTERNALLY</u> 2 massive king post trusses to A201 larger room with ties to N and S walls. Ceiling follows roof line. Chipboard floors throughout. Hardboard wall linings and ceilings generally, but boards to wall and ceiling of link; plaster ceiling to main room A201.</p> <p><u>Fittings</u> Sink and cupboards to A202 and link.</p>
Condition:	Fair
Stability:	Good
Health and Safety:	

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1998 Bat Survey – Casual bat roosts – mostly used occasionally by individuals

No sign of bats but possible use under slates.

Record Information:

**Waltham Abbey Royal Gunpowder Mills**

**STRUCTURE SUMMARY SHEET**

Structure No: A202  
 Structure Name: Surgery – Main Building  
 Structure Type: Building  
 Structure Date/Status: SAM, Listed Grade II\*  
 Grid Reference: TL 37688 00950

Date: September 1998  
 Rev:

Preservation Strategy:	Restore
Construction:	<p><u>Externally</u>                  Buildings A201 and A202 are adjacent. Flemish bond multistock brick, single storey structures.                  The S building A202 is square and is attached via a link passage to the middle and N rectangular buildings, collectively called A201.                  Four timber casements to A201 W elevation and links; 2 strip metal windows to A202.                  On E side, 2 casements and an 18th century door (blocked inside) to A202; door to link; 3 casements and 2 doors (one blocked) to A201.                  Some flat arches; otherwise concrete or timber lintels to open doors; some stone sills.                  Offset plinth; corbelled eaves to all walls.                  Pyramidal slate roof to A202; boarded ceiling obscures roof trusses.                  Flat roof to link.                  Hipped slate roofs to each room of A201 with lead valley over brick dividing wall. Plastic gutters.</p> <p><u>Internally</u>                  2 massive king post trusses to A201 larger room with ties to N and S walls.                  Ceiling follows roof line.                  Chipboard floors throughout.                  Hardboard wall linings and ceilings, but boards to wall and ceiling of link; plaster ceiling to main room A201.</p> <p><u>Fittings</u>                  None</p>
Condition:	air
Stability:	Good
Health and Safety:	

Record Information:

1998 Bat Survey – Casual bat roosts – mostly used occasionally by individuals  
No sign of bats but possible use under slates.



# Waltham Abbey Royal Gunpowder Mills

## STRUCTURE SUMMARY SHEET

Structure No: A203  
Structure Name: Library and Lecture Theatre  
Structure Type: Building  
Structure Date/Status: SAM  
Grid Reference: TL 37700 00920

Date: November 1998  
Rev:

Preservation Strategy:	Restore
Construction:	<p><b>Externally</b> Almost rectangular building, 42.5 metres x 17.9 metres x 10.1 metres, comprising lecture theatres, offices, toilets/foyer block and library. All components expressed in 1960s fashion. Handmade red brick facings. Asphalt roofs except copper lecture theatre roof. Hard wood external screens. Concrete balconies and entrance canopy.</p> <p><b>Internally</b> Concrete floors. Mineral board ceilings.</p> <p><b>Fittings</b> None.</p>
Condition:	Fair
Stability:	Good
Health and Safety:	

**Waltham Abbey Royal Gunpowder Mills**

**STRUCTURE SUMMARY SHEET**

Structure No: A210  
 Structure Name: Power House  
 Structure Type: Building  
 Structure Date/Status: RCHME  
 Grid Reference: TL 377080 01000

Date: September 1998  
 Rev:

Preservation Strategy:	Conserve
Construction:	<p><b>Externally</b>                  Triple-pile gabled single storey brick building with pitched slate roofs and glazed clerestories. Overall size 36 metres x 29.4 metres and approximately 9 metres high; divided into 2 large halls.</p> <p><b>W hall (boiler house)</b>                  Occupies 2 "piles" and is roughly square. Brickwalls 1.5 brick thick with piers on oversized walls (forming 7 bays). Support steel trusses which span to a steel beam on stanchions down the centre of the hall.                  Between the piers metal framed round-headed windows with brick arches and concrete sills; some later metal framed windows at low level with concrete lintels and sills and 4 low level doorways including a large opening to W side - small doorway to NW is original.                  Concrete flooring internally.                  Roof is slate covered with close building fixed pile end between the trusses; central value with cast iron gutter and glazed clerestory in centre of each bay with windows and louvres to sides.                  Cast iron eaves gutter and downpipes.                  The end of each pile has stepped gable with tile creasing across to the parapet coping and between gables are hoppers and downpipes.                  Walls painted externally.                  In SW corner 2 small offices approximately 2.4 metres high with concrete roofs and flush doors.</p> <p><b>East Hall (Engine House)</b>                  Occupies 1 "pile" and is similar in construction but 10 bays long.                  Externally there are more low level alterations to form windows and door openings, subsequently blocked from inside at low level.                  No doors to large doorway to S side.                  Roof level has cast iron valley over wall dividing this from the W hall and timber roof level cantilevered walkway connecting 2 valleys.                  Clerestory over roof has had 2 louvres covered on O/S in metal sheet.                  Internally, the structure is different, no piers to support roof trusses, but steel stanchions instead; in front of these are stanchions to support runway for travelling crane.                  Blocked door in W wall to W hall.                  N end there is concrete metal floor which has been inserted with brick walls to provide offices; these once had ceilings just below the travelling crane.                  Painted brick walls, metal stairs up.                  3 No. windows to N side, space under windows sealed off.</p> <p><b>Fittings</b>                  3 large lights to W and S elevations of W hall.</p>

Condition:	Fair
Stability:	Good
Health and Safety:	Roof-level walkways assumed to be unsafe
Record Information:	1998 Bat Survey – Casual bat roosts – mostly used occasionally by individuals Signs of bats entering through holes between slates – roosting between slate and timber sarking. Small numbers, probably of pipistrelles.

**Waltham Abbey Royal Gunpowder Mills**

**STRUCTURE SUMMARY SHEET**

Structure No: A214  
 Structure Name: Shift House/Water Tower  
 Structure Type: Building  
 Structure Date/Status: In Conservation Area  
 Grid Reference: TL 37800 01020

Date: September 1998  
 Rev:

Preservation Strategy:	Conserve
Construction:	<p><b>Externally</b>                  Square brick tower with pyramidal roof, with adjoining gabled single storey building with pitched roof; overall size 14 metres x 7.4 metres; tower approximately 12 metres high.</p> <p><b>Tower Externally</b>                  Stock brick with 2 recessed panels to upper part of each elevation, and 2 to base.                  Engineering brick plinth and bands to top of base.                  2 No. windows in upper part of N and S elevations, with turned red brick arches and concrete sills with metal frames.                  16 No. tie bar plates (?) on E and W elevations.                  Roof pyramidal slate on boards with rafters, blue clay hip tiles.                  Cast iron gutters and downpipes, timber fascias.                  Later windows in base on S and E sides, metal frames with concrete lintels and sills.                  2 No. doorways in base on N elevation.                  Building adjoined to W of tower.</p> <p><b>Building Externally</b>                  Stock brick walls 1½ bricks thick with 3 recessed panels.                  On N side 2 No. windows and double doors and fanlight; on S side 3 No. windows; on W side 2 No. windows and double doors: windows all as for base of tower.                  Slated roof on close boarding fixed purlins on metal trusses with blue clay ridge tiles.                  Cast iron gutters and downpipes, timber fascias and bargeboards.</p> <p><b>Building Internally</b>                  Has concrete floor, painted plaster walls and tiled suspended ceiling; fitted out as ablution block with partitions, cubicles etc all broken - disused and finished spreads to S side of base of tower and also to the NE corner of the base of the tower.</p> <p><b>Tower Internally</b>                  Apart from where the base has been used as above is one large void; concrete floor painted brick walls down the side of roof structure.                  N elevation steps in above base on steel concrete beam running E-W.                  2 No. steel beams run at high level from pier on E elevation to pier on W elevation.</p> <p><b>Fittings</b>                  Various metal brackets on N elevation of single storey building.</p>
Condition:	Good

Stability:	Good
Health and Safety:	
Record Information:	1998 Bat Survey – Casual bat roosts – mostly used occasionally by individuals Signs of bats using spaces beneath slates – small numbers, probably of pipistrelles.

# Waltham Abbey Royal Gunpowder Mills

## STRUCTURE SUMMARY SHEET

Structure No: H7  
Structure Name: Magazine  
Structure Type: Building  
Structure Date/Status: Listed Grade II  
Grid Reference: TL 37560 01100

Date: November 1998  
Rev:

Preservation Strategy:	Restore
Construction:	<p><b>Externally</b> Rectangular brick building 26.7m x 9.6m x 3.4m to eaves within banked traverse. Walls 1½ bricks thick. Bricks with engineering brick plinth and 8 no. recessed panels each side + one in each end. 4 no. windows each side, now blocked in brick, turned red brick arches and concrete sills. Pairs of metal doors at either end and in centre of E side. Roof felt (originally zinc) hipped on iron trusses. To N and S sides truck porches of corrugated iron on timber frame, with flat felt roof.</p> <p><b>Internally</b> Divided into 3 x 1 brick cross walls. Asphalt on concrete floors. Painted walls. Tiled suspended ceiling with insulation over. N room has 5 no. ¾ height 1 brick partition walls and enclosed room with 2 no. wide slatted shelves.</p> <p><b>Fittings</b> Electric radiators to all rooms.</p>
Condition:	Good
Stability:	Good
Health and Safety:	

# Waltham Abbey Royal Gunpowder Mills

## STRUCTURE SUMMARY SHEET

Structure No: L101  
Structure Name: Workshop/Office Burning Ground  
Structure Type: Building  
Structure Date/Status: SAM  
Grid Reference: TL 37606 01676

Date: October 1998  
Rev:

Preservation Strategy:	Conserve
Construction:	<p><b>Externally</b> Rectangular, single storey brick building - 10.54m x 8.6m with a timber framed extension to the N side. Main building has a felt roof. E and W brick gable walls with 2 blind panels, 3 blind panels to N and S walls. E and W have later inserted timber casement windows with concrete sills. S side has blocked central openings with a semi circular brick rubbed arch head and cast stone sill. N side has central doorway. Extension roof is a continuation of the roof slope from the main building.</p> <p><b>Internally</b> Painted brick walls. East part of extension clad in weatherboarding with window to N side and single pane window to E side. West part of extension is in open store (with roof but no front wall). Plastic rainwater goods.</p> <p><b>Fittings</b> Stand pipe to SW pier. Fuse boxes to SE pier of brick building. Fire hose to NE corner of extension. Telegraph insulator and alarm bell.</p>
Condition:	Fair
Stability:	Fair
Health and Safety:	

# Waltham Abbey Royal Gunpowder Mills

## STRUCTURE SUMMARY SHEET

Structure No: L102  
 Structure Name: Lead Store: Burning Ground  
 Structure Type: Building  
 Structure Date/Status: SAM  
 Grid Reference: TL 37542 01714

Date: November 1998  
 Rev:

Preservation Strategy:	Conserve
Construction:	<p><b>Externally</b>                  Rectangular gabled building 8.95 x 5.1 x 3.95m high.                  Enclosed porch to centre of W side.                  Later lean-to on SW corner and E elevation.                  Stock brick walls; English bond; blue brick plinth.                  2 buttresses on E wall and a store plaque reading "RGPF VR 1879".                  Buttresses stone capped.                  High level air bricks.                  Infilled pipe to S side.                  Bricked-in window with red rubber arch to N elevation.                  Recessed arch to porch and panelled door, later flushed out.                  Asbestos and corrugated plastic lean-tos (SW corner and E elevation).                  Timber stud framing - open sided.                  Felted roof with timber fascias etc onto brick vaults.</p> <p><b>Internally</b>                  Walls rendered internally, timber skirtings.                  Red line limiting storage height.                  Concrete floor and landing stage.</p> <p><b>Fittings</b>                  2 fluorescent lights internally.                  Porch light externally.                  3 wooden boxes to W wall.                  Hose reel (Pyrene Co Ltd, ER, 7.56) to S elevation.                  Brackets.                  Stripped lightning conductors.                  Conduit + cable on canal side.</p>
Condition:	<p>Good (main building)                  Poor (main lean-to)</p>
Stability:	<p>Good (main building)                  Poor (main lean-to)</p>
Health and Safety:	<p>Lean-to in poor condition (East elevation)                  Lean-to clad in asbestos cement sheet (SW corner)</p>



Record Information:

1998 Bat Survey – Nursery Roosts

South end, apex area and down gable wall to east a nursery colony of pipistrelles was in residence. Roof covered with bitumastic felt on timber. Also, the nursery cluster was previously in the north end, also on the east side above gable wall. No roof work should be done without a more detailed survey being undertaken outside the breeding season. An important breeding site.

# Waltham Abbey Royal Gunpowder Mills

## STRUCTURE SUMMARY SHEET

Structure No: L103  
 Structure Name: Magazine: Burning Ground  
 Structure Type: Building  
 Structure Date/Status: SAM  
 Grid Reference: TL 37535 01700

Date: November 1998  
 Rev:

Preservation Strategy:	Conserve
Construction:	<p><b>Externally</b>                      Rectangular and gabled building with enclosed central porch with open canopy in front. 9.45 x 4.98 x 4.3 m high.                      English bond stock brick walls, 3 bricks thick.                      Rendered internally.                      Corbelled eaves.                      Brick on edge abutments with brick creasing courses.                      Porch on W with bead butt door.                      Timber post and beam canopy attached.                      Air bricks to all elevations.                      2 stepped buttresses to E elevation with tumbling-in.                      Slate shields to rainwater shoes.                      Blocked window to S elevation.                      Red arch; concrete sill.                      Window intact behind brickwork.                      Timber skirtings.                      Heating (?) pipe cut off - N and S elevations.                      Lightning conductor remains.                      Slate roof on brick vault.                      Chamfered timber fascias.                      Cast iron ½ round gutters.                      Timber boarded ceiling to canopy.                      Porch also vaulted (at lower level than main roof).</p> <p><b>Internally</b>                      Concrete floor (later ?) with holes for fittings.                      Red line on inside wall and notice "Explosives are not to be stored above red line".                      Concrete floor to canopy with sockets (for end wall ?).</p> <p><b>Fittings</b>                      Notice board in porch.                      Card holder on door plus leather strap container.                      Various conduits, lights.                      Fixing bolts to buttresses.</p>
Condition:	Good
Stability:	<p>Good (main building)</p> <p>Poor (West Porch canopy, column bases damaged)</p>

Health and Safety:	Potentially unstable West Porch canopy
Record Information:	1998 Bat Survey – Nursery Roosts Pipistrelle droppings around lead flashing showing use by nursery colony earlier in year, probably just before breeding (eg May/June).

# Waltham Abbey Royal Gunpowder Mills

## STRUCTURE SUMMARY SHEET

Structure No: L105  
 Structure Name: Paste Store Magazine  
 Structure Type: Building  
 Structure Date/Status: SAM, in SSSI  
 Grid Reference: TL 37500 01610

Date: November 1998  
 Rev:

Preservation Strategy:	Manage as ruin
Construction:	<p><b>Externally</b>                  Single storey rectangular brick building 10.55m x 8.4m x 3.4m to eaves height; similar to L101; surrounded by earth traverse.                  Stone copings to gable.                  Plinthed corner and central piers.                  S elevation has 3 blind panels with central metal window.                  N elevation similar but with central vertically boarded double doors.                  Timber framed weatherboarded extension/porch to E side with timber window in E wall and continuous catslide roof to main building.                  Roof felt on timber boarding on timber trusses.</p> <p><b>Internally</b>                  Floor concrete with 18" gauge railway sleepers and timber toe-board to porch.                  Interior brick walls painted.                  Timber boarded ceiling.                  Walls once covered with painted calico.</p> <p><b>Fittings</b>                  2 steam pipes suspended from hangers in ceiling/roof.                  Iron pipes protruding from W and S walls, iron hook from E side.</p>
Condition:	Poor
Stability:	<p>Good (brick structure)                  Poor (roof and North lean-to)</p>
Health and Safety:	Dangerous structure

# Waltham Abbey Royal Gunpowder Mills

## STRUCTURE SUMMARY SHEET

Structure No: L107  
 Structure Name: Petrol Store  
 Structure Type: Building  
 Structure Date/Status: In Conservation Area  
 Grid Reference: TL 37690 01387

Date: January 1999  
 Rev:

Preservation Strategy:	Conserve
Construction:	<p><b>Externally</b>                      Rectangular gabled 4.02 x 3.96 x 3.7m to apex.                      English bond, stock brick walls, 2 brick thick, plastered inside.                      E and W gables with brick on edge coping and brick creasing.                      Doorway to W side with timber frame, threshold; lintel with hoodmould; door missing.                      S wall: corbelled eaves; switch gear remains; window converted to control panel.                      E wall: 150 mm diameter hole for pipe.                      N wall: corbelled eaves; air brick; 9 light timber casement; timber lintel missing.                      Asphalt concrete floor.                      Slate roof on brick vault.                      No rain water goods.</p> <p><b>Fittings</b>                      Ceiling fan.                      2 safety lights.                      Heating pipe.                      Conduits.                      Various ducts and wires through walls.                      Windows plastered over.</p>
Condition:	Good
Stability:	Good (building) Fair (Landing stage)
Health and Safety:	Possibility of further movement affecting landing stage

## Waltham Abbey Royal Gunpowder Mills

### STRUCTURE SUMMARY SHEET

Structure No: L108  
 Structure Name: Metal Store/Paste Store  
 Structure Type: Building  
 Structure Date/Status: SAM, in SSSI  
 Grid Reference: TL 37560 01568

Date: November 1998  
 Rev:

Preservation Strategy:	Restore
Construction:	<p><b>Externally</b>                      Brick single storey building (similar to L105) with timber framed extension to the E side with bracketed out porch addressing road.                      Main building has a slate roof.                      N and S gable walls with two blind panels, 3 blind panels to E and W side.                      W wall has central metal window with a red brick arch over.                      E side has central doorway with flush double doors.                      Extension clad in asbestos sheet to E side and horizontal weather-boarding to N side. S side is a mixture                      3 timber windows to extension: 1 to S side, 1 to E side and 1 to N side.                      Cast iron and plastic rainwater goods.</p> <p><b>Internally</b>                      Painted plaster walls with horizontal boarded ceiling.                      Extension - vertical boarding to E side, painted brickwork to W side and panels to S side.                      Ceiling horizontally boarded.                      Porch entrance has pitched roof while extension has continuous catslide roof with main building - slate.                      Extension built on concrete plinth.                      Porch has vertical boarded internal walls and horizontally boarded ceiling.</p> <p><b>Fittings</b>                      Single steam heating pipe suspended from ceiling.                      Pressure gauge and iron pipe to S elevation.                      Telegraph insulators to SE corner.</p>
Condition:	<p>Good (main building)                      Poor (East lean-to)</p>
Stability:	<p>Good (main building)                      Poor (East lean-to)</p>
Health and Safety:	Rot affects timber wall, floor and roof structures of lean-to.

Record Information:

1998 Bat Survey – Former significant bat roosts, but no longer used  
Former pipistrelle nursery roost (in early 1990s) but no longer used.

# Waltham Abbey Royal Gunpowder Mills

## STRUCTURE SUMMARY SHEET

Structure No: L109  
 Structure Name: Prep Room for Gas Tap  
 Structure Type: Building  
 Structure Date/Status: SAM, in SSSI  
 Grid Reference: TL 37606 01522

Date: December 1998  
 Rev:

Preservation Strategy:	Conserve
Construction:	<p><b>Externally</b>                  Rectangular brick monopitched building 10.1 x 7.4 x 5m high divided into 3 bays.                  English bond stock brick walls generally 470 ml thick but (later) W wall 110 ml thick.                  3 no. timber flush doors and vents to W elevation with concrete lintels over.                  Brick lean-to on E side with stock walls, a 16 pane cast iron window with red segmental arch over (N) side and a flush door in older frame to S side with relieving arch to inside.                  Concrete floors, plant base and pit to N room.                  Porch and lean-to asphalted.                  Corrugated iron roofs on steel (?) angles, extending as catslide to form porch to W side.                  75 mm diameter cast iron posts support porch.                  Brick-on-edge on brick creasing abutments to N and S sides.                  Brickwork built up to NE side to form lifting beam housing with felt roof.                  Timber rooflights to middle and S rooms.                  Asbestos (?) board ceilings.</p> <p><b>Fittings</b>                  Various fittings to outside including lights, klaxon, pipes.                  Inside: heating pipes throughout; lifting beam to N room; various electrics; grooved timbers to lean to.</p>
Condition:	Good
Stability:	Good
Health and Safety:	Asbestos cement roof, South East lean-to



# Waltham Abbey Royal Gunpowder Mills

## STRUCTURE SUMMARY SHEET

Structure No: L109A  
Structure Name: Traverse, N of L109  
Structure Type: Building  
Structure Date/Status: SAM, in SSSI  
Grid Reference: NGR

Date: December 1998  
Rev:

Preservation Strategy:	Conserve
Construction:	<p><b>Externally</b> Rectangular earth traverse enclosed on 3 sides by stock brick walls on mass concrete backing. S wall 2m high, E and W walls vary from zero at N end, 5.2m at centres and 2m at S end. Remains of timber plank wall to top of S wall. E and W walls battered and secured by 2 no. cast iron vertical rails; 840mm wide at tops. SE and SW corners curved.</p> <p><b>Fittings</b> None</p>
Condition:	Fair
Stability:	Poor (cracked concrete especially South West corner)
Health and Safety:	Unstable concrete retaining walls

# Waltham Abbey Royal Gunpowder Mills

## STRUCTURE SUMMARY SHEET

Structure No: L109A  
Structure Name: Traverse, N of L109  
Structure Type: Building  
Structure Date/Status: SAM, in SSSI  
Grid Reference: NGR

Date: December 1998  
Rev:

Preservation Strategy:	Conserve
Construction:	<p><b>Externally</b> Rectangular earth traverse enclosed on 3 sides by stock brick walls on mass concrete backing. S wall 2m high, E and W walls vary from zero at N end, 5.2m at centres and 2m at S end. Remains of timber plank wall to top of S wall. E and W walls battered and secured by 2 no. cast iron vertical rails; 840mm wide at tops. SE and SW corners curved.</p> <p><b>Fittings</b> None</p>
Condition:	Fair
Stability:	Poor (cracked concrete especially South West corner)
Health and Safety:	Unstable concrete retaining walls

# Waltham Abbey Royal Gunpowder Mills

## STRUCTURE SUMMARY SHEET

Structure No: L111  
Structure Name: Magazine  
Structure Type: Building  
Structure Date/Status: SAM, in SSSI  
Grid Reference: TL 37615 01511

Date: September 1998  
Rev:

Preservation Strategy:	Conserve
Construction:	<p><b>Externally</b> Square brick building 3.71 x 3.71 x 2.5m high. English bond brick walls, painted inside. 9 no. pane cast iron window to N with stone sill and red segmental arch over. Door opening to E side with stock arch over. Door and timber lintel missing. Cast iron rainwater downpipe remains. Asphalted floor. Roof removed.</p> <p><b>Fittings</b> Iron wall brackets.</p>
Condition:	Fair
Stability:	Good
Health and Safety:	

# Waltham Abbey Royal Gunpowder Mills

## STRUCTURE SUMMARY SHEET

Structure No: L115  
 Structure Name: Explosives Test House  
 Structure Type: Building  
 Structure Date/Status: SAM, in SSSI  
 Grid Reference: TL 37589 01435

Date: September 1998  
 Rev:

Preservation Strategy:	Conserve
Construction:	<p><b>Externally</b>                  "C" shaped reinforced concrete single storey structure 9.31 x 5.3 x 2.33m high.                  350 thick walls with louvred timber doors to each return on the W elevation.                  Blocked vent to E Wall.                  Wall adjacent to S door later extended Eastward to divide building in two.                  Pipe through S wall.                  Painted walls inside and out, later covered with styrofoam tiles to main room.                  Concrete floors with lino remains.                  Sump to NE corner.                  225mm roof slab with upstand and drip.                  Later square rooflight.                  NE asbestos rainwater chute.                  Ceiling partially tiled as walls.</p> <p><b>Fittings</b>                  7 no ceiling and wall lights.                  Vent and heater to S wall of main room.                  Fan on other side in small room - flue through S wall.                  Small diameter pipe through wall at low level.                  Lifting device to W wall inside.                  12 no. numbered ribbed concrete blocks on floor.                  Worktop removed from E wall.                  Various other fixings.                  Pipes through walls.                  Wire attached to SW corner of building.</p>
Condition:	Good
Stability:	Good
Health and Safety:	

**Waltham Abbey Royal Gunpowder Mills**

**STRUCTURE SUMMARY SHEET**

Structure No: L116  
 Structure Name: Heating Trials  
 Structure Type: Building  
 Structure Date/Status: SAM, in SSSI  
 Grid Reference: TL 37585 01422

Date: September 1998  
 Rev:

Preservation Strategy:	Restore
Construction:	<p><b>Externally</b>                  Square gabled structure with E lean-to 5.35msq x 4.2m high.                  225 mm stock bridge walls.                  Segmental arch and double ledged and braced doors to W and stone steps up.                  Blocked window with flat arch and stone sill to E gable.                  On N side louvred door, concrete steps, concrete block screen to lean to.                  2 no 3 on 3 sash windows with horns and stone sills.                  Electrics in.                  Terracotta air bricks to all elevations.                  Slate on board roof.                  Dry verges.                  Timber barges and fascias.                  Lead roll ridge.                  Plastic rainwater goods.                  Zinc standing seam roof to lean-to.                  Lath and plaster ceilings.                  Timber roof light to N elevation.</p> <p><b>Internally</b>                  E to W lath and plaster partition on ridge line.                  Door from N room to lobby and smaller S room.                  Other walls plastered. Torus skirting throughout.                  Panelled door from N room to lobby.                  Door S room missing.                  Timber floors.                  Lino remains.</p> <p><b>Fittings</b>                  W elevation; fuse boards, electrics in, light over door, switch, conduits.                  S elevation: pipes through, hooks.                  E elevation: lead wastes, iron hooks, timber shelf.                  Inside: scars of shelf units - torus splashback, wastes and taps remain; various electrics; heaters.                  Original ironmongery.</p>
Condition:	Poor
Stability:	Good (brick structure) Poor (roof, North slope) (screen wall, North East corner)

Health and Safety:

North slope of roof in poor condition – possibility of collapse  
Screen wall leaning, North East corner – possibly unstable

Record Information:

# Waltham Abbey Royal Gunpowder Mills

## STRUCTURE SUMMARY SHEET

Structure No: L118  
Structure Name: Preparation Room  
Structure Type: Building  
Structure Date/Status: In Conservation Area  
Grid Reference: TL 37586 01394

Date: September 1998  
Rev:

Preservation Strategy:	Conserve
Construction:	<p><b>Externally</b> Rectangular, monopitch building 3.9m x 3.28m x 2.54m high. Asbestos sheet walls on timber studwork. No internal lining. 2 no. windows to N side. Flush door to W elevation. Concrete floor. Corrugated asbestos roof on timber structure. No rainwater goods.</p> <p><b>Fittings</b> Light to N elevation. Heating pipe. Tall fin type heater. Conduits; switch gear. Vents to N and S wall with boxings externally.</p>
Condition:	Fair
Stability:	Fair
Health and Safety:	Timber structure, some woodworm, clad in asbestos cement panels

**Waltham Abbey Royal Gunpowder Mills**

**STRUCTURE SUMMARY SHEET**

Structure No: L119  
 Structure Name: Heat Test Room  
 Structure Type: Building  
 Structure Date/Status: In Conservation Area  
 Grid Reference: TL 37578 01381

Date: September 1998  
 Rev:

Preservation Strategy:	Restore
Construction:	<p><b>Externally</b>                  Rectangular gabled building 9.1m x 6.6m x 5m high.                  Pebble dashed brick walls, 1 brick thick, plastered internally.                  E-W partition divides building.                  N room further divided into 2 by plastered brickwall with panelled (now flushed out) door.                  2 external boarded doors approached by stone steps, on W elevation.                  2 segmental arched windows with sashes 6 on 6, no horns; painted stone sub sills.                  Three similar windows (but flat arches and horns) to N side.                  3 identical to E side (and boarded door and stone steps).                  2 to S elevation (as N).                  Lino covered timber floors ventilated by cast iron airbricks.                  Slate roof with lead roll ridge.                  Half round cast iron gutters and down pipes.                  Chamfered barge boards and fascias.                  Lath and plaster ceilings part following roof slope.</p> <p><b>Internally</b>                  Torus skirtings.                  Moulded architraves to original door and windows.                  Small enclosure; flush door to E side of S room.</p> <p><b>Fittings</b>                  Massive concrete bench in small enclosure off S room.                  Extract fan to S elevation and wooden box.                  Heaters etc; pipes through wall; electrics; fluorescent lights.                  Benches stripped out in all rooms.                  Rim locks.                  2 rotten timbers sticking out of W elevation (for table?)</p>
Condition:	Fair (generally Poor (roof)
Stability:	Good



Health and Safety:	Water penetration has loosened ceiling plaster, some falls have occurred. Floor may be rotten beneath finishes. Open gulleys near South elevation.
Record Information:	

# Waltham Abbey Royal Gunpowder Mills

## STRUCTURE SUMMARY SHEET

Structure No: L120  
Structure Name: Solvent Store  
Structure Type: Building  
Structure Date/Status: In Conversation Area  
Grid Reference: TL 37588 01383

Date: September 1998  
Rev:

Preservation Strategy:	Conserve
Construction:	<p><b>Externally</b> Rectangular gabled building 5.4m x 2.55m x 2.5m high. Stretcher bond, 1 brick thick fletton walls with 14 no 9" diameter rendered vent holes to each long side. 2 low level vents with concrete lintel to E side. Double grille doors and side panels under concrete lintel to W side. Concrete threshold across entire elevation to create a bund. Replacement polythene sheet roof; original angle purlins; half round gutters and cast iron down pipes.</p> <p><b>Internally</b> Mesh panels on timber noggins over each vent. Concrete floor.</p> <p><b>Fittings</b> Safety lights to roof of purlins. Steel conductor bracket to each gable.</p>
Condition:	Good
Stability:	Good
Health and Safety:	

# Waltham Abbey Royal Gunpowder Mills

## STRUCTURE SUMMARY SHEET

Structure No: L121  
 Structure Name: Toilet and Store  
 Structure Type: Building  
 Structure Date/Status: In Conservation Area  
 Grid Reference: TL 37393 01376

Date: September 1998  
 Rev:

Preservation Strategy:	Conserve
Construction:	<p><b>Externally</b>                  Rectangular gabled building 7.9m x 5.9m x 4.3m high.                  Flemish bond fletton brickwork painted internally.                  6 light metal window and tiled sill to N elevation; concrete lintel.                  2 similar windows to E elevation, 1 to S side.                  3 flush doors to W side; concrete lintels.                  Corrugated asbestos roof and fittings.                  Half round cast iron gutters and rain water downpipes.                  Exposed rafter feet and timber fascia. Plasterboard (?) ceilings.</p> <p><b>Internally</b>                  N door to ladies' side comprising lobby locker room and toilets.                  Asphalt floor to lockers and lobby.                  Quarry tiles to toilets.                  Toilets half tiled.                  Cubicles rendered.                  Middle door to store.                  Ceiling hatch.                  Concrete floor.                  S door to men's side comprising lobby and toilets.                  Asphalt to lobby floor, tiles to toilets.                  Walls to ladies.</p> <p><b>Fittings</b>                  2 no cast iron soil and vent pipes.                  Electric heaters.                  Basins and WC's etc all present.                  Lockers to ladies' side.</p>
Condition:	Good
Stability:	Good
Health and Safety:	Asbestos cement roof

# Waltham Abbey Royal Gunpowder Mills

## STRUCTURE SUMMARY SHEET

Structure No: L122  
 Structure Name: Main Laboratory  
 Structure Type: Building  
 Structure Date/Status: In Conservation Area  
 Grid Reference: 3758401364

Date: September 1998  
 Rev:

Preservation Strategy:	Conserve
Construction:	<p><b>Externally</b>                  2 storey rectangular building 19.3m x 8.1m x 7.6m to eaves with hipped slate roof.                  Red brick plinth with blue engineering specials on which is raised timber framing, infilled at Ground Floor level with red brick and pebble dash at FF.                  Upper floor jetties about 150mm, the joists supporting a hood mould.                  Corbelled brick infill.                  Two glazed and panelled doors to W elevation with 8 light fanlight over.                  To W side, 3 no casements to Ground Floor.                  6 no double casements to FF with 4 light top hung windows over.                  On E elevation 5 no GF windows, boarded and glazed door with 3 no light fanlight over.                  6 no FF windows (as W) and a door to a steel fire escape (platform only remains).                  3 no similar FF windows to N and S sides.                  3 no GF windows to S elevation.                  2 no to N side.                  Concrete steps to doors.                  Lino covered timber t and g flooring.                  King post truss roof with exposed boards and purlins.                  Slate roof with asbestos (?) ridges and hips.                  4 turret type steel vents.                  Skylight to N, E and W slopes.                  Half round CI gutters and downpipes.                  CI waste and vents pipes.</p> <p><b>Internally</b>                  N front door opens to half match boarded hall, leading originally to 4 rooms.                  SE room later subdivided into Lobby and 2 rooms.                  Torus skirtings, moulded architraves, panelled wooden lath and plaster partitions.                  Match boarding to NE room (and timber secondary glazing to E side).                  Ceilings later hardboarded.                  S side front door and hall (later) open to 2 rooms.                  Partition between these rooms reviewed in hardboard.                  Doors to match originals inserted from hall and E room to original building.                  On FF 2 rooms originally.                  Central partition with clerestory light and to original building.                  FF 2 rooms originally; central partition with clerestory light and concave grooves in doorways (2 no) for pivot doors.                  Later - 3 no offices to N and 1950s (?) stair.</p> <p><b>Fittings</b>                  Many external fans, flues etc, pipes, switch gear.                  Internally, remains of lab benches, wastes etc.                  Picture rail to room off both halls.                  Fluorescent lights.                  Brick supported benches to one room on GF.</p>

Condition:	Fair
Stability:	Good
Health and Safety:	Open gulleys in surrounding ground
Record Information:	1998 Bat Survey – Casual bat roosts – mostly used occasionally by individuals Bats are using building as night roost – mainly brown long-eared bats internally with pipistrelles under ridge slates, occasionally.

**Waltham Abbey Royal Gunpowder Mills**

**STRUCTURE SUMMARY SHEET**

Structure No: L123  
 Structure Name: Magazine/Solvent Store  
 Structure Type: Building  
 Structure Date/Status: SAM, in SSSI  
 Grid Reference: TL 37508 01345

Date: October 1998  
 Rev:

Preservation Strategy:	Conserve
Construction:	<p><b>Externally</b>                  Small square brick building (stretcher bond) - walls 215mm thick with concrete floor which extends to an open porch to the NW side.                  Building divided into 2 rooms by a brick central internal wall, which continues up through roof to bisect roof.                  Pitched roof supported on steel angles.                  Corrugated asbestos roof covering extended over cover porch (supported on steel angle beams).                  High and low level air vents.                  Metal open mesh door and frame to NE and SW sides of N room.                  Timber flush double doors to SE elevation accessing S room.                  CI gutters and rainwater pipes.</p> <p><b>Fittings</b>                  Wall light in S room, ceiling light to N room.                  2 sets of 2 hoop iron fittings with fire hydrants bolted into NW wall with light above.                  Electric fuse boxes and conduits.                  N room has timber shelves on metal brackets fixed to NW and SE walls.                  Remains of copper lightning tape.                  Red timber box to E elevation.</p>
Condition:	Good
Stability:	Good
Health and Safety:	

Waltham Abbey Royal Gunpowder Mills

STRUCTURE SUMMARY SHEET

Structure No: L125  
Structure Name: Electrical Store  
Structure Type: Building  
Structure Date/Status: In Conservation Area  
Grid Reference: TL 37610 01369

Date: September 1998  
Rev:

Preservation Strategy:	Conserve
Construction:	<b>Externally</b> Square 1 brick thick Flemish bond brick building: 2.26m x 2.26m x 2.3m high. Asbestos lined timber door, Gothick airbrick to N elevation. Concrete floor. Flat concrete roof. <b>Fittings</b> Radiator, switch gear, lightning conductor, insulator.
Condition:	Good
Stability:	Good
Health and Safety:	Asbestos cement door facing (damaged)

Waltham Abbey Royal Gunpowder Mills

STRUCTURE SUMMARY SHEET

Structure No: L126  
Structure Name: Sewer Pump House  
Structure Type: Building  
Structure Date/Status: In Conservation Area  
Grid Reference: TL 37634 01378

Date: September 1998  
Rev:

Preservation Strategy:	Conserve
Construction:	<p><b>Externally</b> Rectangular brick building in Flemish bond with decorative projecting headers in places. Felt roof with projecting tapered joists forming overhanging eaves; no gutters. Metal strip window and steel lintel to N elevation. Boarded door to W side with concrete stair. CI vent attached to S elevation.</p> <p><b>Fittings</b> Alarm bell. Internally (not inspected) 2 pumps. Vents through roof.</p>
Condition:	Good
Stability:	Good
Health and Safety:	



# Waltham Abbey Royal Gunpowder Mills

## STRUCTURE SUMMARY SHEET

Structure No: L128  
 Structure Name: Radio Chemistry Laboratory  
 Structure Type: Building  
 Structure Date/Status: SAM, in SSSI  
 Grid Reference: TL 37519 01335

Date: October 1998  
 Rev:

Preservation Strategy:	Conserve
Construction:	<p><b>Externally</b>                  Rectangular single storey pitched roof stock brick building (300m thick walls) with a porch extension/ entrance centrally placed on W face.                  Built on a 400mm thick concrete base; ground drops to E side and concrete slab is supported on piers.                  Corrugated asbestos roof covering.                  Timber framed casement windows with concrete sills and lintels to each gable and one on either side of porch.                  Timber barge boards and fascias.                  CI rainwater goods.                  Flush entrance door with vision panel to N elevation of porch.                  W elevation of porch has filled in door opening with timber casement window above corrugated panel and below boarded panel.</p> <p><b>Internally</b>                  One internal wall partially demolished.                  Remaining partitions part-glazed plasterboard walls.                  Flush doors throughout.                  Roof access hatch in N room.</p> <p><b>Fittings</b>  <b>Exterior:</b> metal fire hydrant holder on N elevation.                  Fuse box by door to porch.                  Light on NW corner, bolted plates to E wall.                  4 no circular vents/pipes with metal platforms bolted to wall.                  Iron hooks fixed to E and N walls.                  Vents to all walls.                  Remains of lightning conductor tape.  <b>Interior:</b> remains of benches with gas and water outlets.                  Handbasins, sinks, water heaters, radiator and fluorescent lights.</p>
Condition:	Fair
Stability:	Good

Health and Safety:	Asbestos cement roof Deep hole in ground on approach to entrance, West elevation
Record Information:	1998 Bat Survey – Significant Bat Roosts Fresh Natterer's bat droppings internally, with bats probably roosting in roof and occasionally in stud walling. Also, it was a night roost with many moth wings scattered about on the floors showing the prey which were carried inside the building by bats.

ref: 753201/L101-L129

# Waltham Abbey Royal Gunpowder Mills

## STRUCTURE SUMMARY SHEET

Structure No: L130  
Structure Name: Magazine  
Structure Type: Building  
Structure Date/Status: In Conservation Area  
Grid Reference: TL 37700 01476

Date: October 1998  
Rev:

Preservation Strategy:	Conserve
Construction:	<p><b>External</b> L-shaped travers; slab and plinth walls of building, 8.65 x 7.4m. Brick faced concrete retaining wall to earth bank, 5.4 m high, with 720 ml brick thick on edge coping to sloping ends. N end wall and an offshoot wall enclose a small slab with brick base and holding down bolts. Wall scars indicate demolished canopy. Slit window and various plates + fixing timbers remain. A 600 mm high brick wall and asphalted slab are the only remains of building.</p> <p><b>Fittings</b> Include pipes through and attached to walls, plates, tie rods.</p>
Condition:	Good
Stability:	Good
Health and Safety:	

# Waltham Abbey Royal Gunpowder Mills

## STRUCTURE SUMMARY SHEET

Structure No: L131  
Structure Name: Solvent Store  
Structure Type: Building  
Structure Date/Status: In Conservation Area  
Grid Reference: TL 37695 01447

Date: November 1998  
Rev:

Preservation Strategy:	Conserve
Construction:	<p><b>Externally</b> Rectangular gabled shed; painted corrugated iron on steel angle framing steel mesh to bottom 225 ml (9 inches) of S wall. Double gates to W gable: mesh on steel angle framing; angle threshold. Concrete floor formed as a bund, sloping from threshold. Sump in SE corners.</p> <p><b>Fittings</b> Timber shelving to each long side.</p>
Condition:	Good
Stability:	Good
Health and Safety:	

# Waltham Abbey Royal Gunpowder Mills

## STRUCTURE SUMMARY SHEET

Structure No: L132 Date: October 1998  
 Structure Name: Physical Test House/Climatic Control Building Rev:  
 Structure Type: Building  
 Structure Date/Status:  
 Grid Reference: TL 37666 01452

Preservation Strategy:	Conserve
Construction:	<p><b>Externally</b>                  Single storey square stock brick building 5.83 m x 5.39 m x 4.3 m (height to eaves).                  Pyramidal shaped roof felt on timber boards.                  Timber roof structure.                  Walls 1 brick thick.                  2 windows with steel frames.                  On W side corrugated asbestos porch supported on hollow painted iron tubes (4 beams + 2 posts) with modern flush timber doors with vision panels.                  Cast iron eaves gutters and rainwater downpipe.</p> <p><b>Internally</b>                  Floor concrete with lino finish.                  Inside the walls are painted brick.                  Later timber stud partition with 2 glazed upper panels.</p> <p><b>Fittings</b>  <b>External</b>                  Timber posts with insulators to SW corner.                  Iron fixings protruding from S elevation.                  High level vents internally and externally to S wall.                  Fixings for pipe/cable at mid height.                  Copper lightning conductor encircles building.</p> <p><b>Internal</b>                  Across top building into walls running N-S are two RSJs with wheeled runners.                  Surface run wiring, conduit + fuse boxes.                  Heating pipe, 2 high level fans, wash basin, radiator and fluorescent tube lights.                  Iron beam covered in lagging hangs diagonally across room from ceiling to floor.</p>
Condition:	Good
Stability:	Good

Health and Safety:

Asbestos cement Porch roof

Record Information:

# Waltham Abbey Royal Gunpowder Mills

## STRUCTURE SUMMARY SHEET

Structure No: L133  
 Structure Name: Propellant Store  
 Structure Type: Building  
 Structure Date/Status: SAM, Listed Grade II, in SSSI  
 Grid Reference: TL 37648 01442

Date: November 1998  
 Rev:

Preservation Strategy:	Conserve
Construction:	<p><b>Externally</b>                  Rectangular gabled single storey 9.3 x 4.77 x 2.55 m to eaves.                  English bond stock brick walls, 2½ bricks thick; 2 red string bands; rendered internally.                  Blocked windows to N and S gables.                  Segmental stock brick arches and stone sills.                  2 low level air bricks and 1 high level.                  Brick-on-edge on tile creasing course to abutments.                  Two buttresses with stone cappings to E elevation.                  Corbelled eaves.                  Central entrance to W elevation.                  450 mm thick piers project 150 mm from building and are rendered up to concrete lintel (presume porch removed?); later flush timber double doors.                  Plastic rainwater goods.                  Felted roof.</p> <p><b>Internally</b>                  Walls painted.                  Asphalted concrete floor with 4 yellow rectangles; holes for shelving.                  Plasterboard (?) ceiling to original brick vault inside.</p> <p><b>Fittings</b>                  Light over door.                  Iron hooks and pipe to S elevation.                  Cable, switchgear, contraband box to W elevation.                  Lightning conductor.                  Wires, switches, fluorescent lights internally.</p>
Condition:	Good
Stability:	Good
Health and Safety:	

**Waltham Abbey Royal Gunpowder Mills**

**STRUCTURE SUMMARY SHEET**

Structure No: L134  
 Structure Name: Laboratories  
 Structure Type: Building  
 Structure Date/Status: In Conservation Area  
 Grid Reference: TL 37682 01430

Date: September 1998  
 Rev:

Preservation Strategy:	Conserve
Construction:	<p><b>Externally</b>                  Long single storey rectangular brick building 66m x 10.36m x 3.55m to eaves. Brick gable ends to N and S and 2 brick thick bay walls which project slightly through roof.                  Verandah to E side, metal framed with asbestos cement sheet cladding and metal windows, with main access doors to building at N and S ends. W elevation has large timber windows with concrete sills, and 2 external doors. Roof pitched, with felt on boarding on steel trusses. E slope has rooflights and carries on over verandah. Brick extension to S side with monopitch felt roof and metal windows and providing lavatories. Some plastic, some cast iron rainwater goods. Cast iron vent pipe.</p> <p><b>Internally</b>                  Partition between bays and verandah is timber: framed, part glazed, with flush doors. Walls plastered except for inside of verandah which is vertically boarded. Some rooms have suspended ceilings. Lino or tile floors. N side most bay is services room.</p> <p><b>Fittings</b>                  Internal wiring and pipework, lavatory fittings and cubicles. Heaters, lights, blinds. Metal platforms with support brackets on brick piers between windows on W elevation. 9 tall metal vents in roof.</p>
Condition:	Fair
Stability:	Good
Health and Safety:	



# Waltham Abbey Royal Gunpowder Mills

## STRUCTURE SUMMARY SHEET

Structure No: L136  
 Structure Name: Offices  
 Structure Type: Building  
 Structure Date/Status: Listed Grade II, SAM  
 Grid Reference: TL 37647 01429

Date: October 1998  
 Rev:

Preservation Strategy:	Conserve
Construction:	<p><b>Externally</b>                  Square 3 storey brick tower 6.4m x 6.39m.                  1½ brick thick, corner pilasters, blind panel + evidence of 2 blocked windows to each elevation.                  Frieze with vertical red header strips (corbelled).                  Red rubber arch over timber glazed + beaded panelled doors in S facade.                  Non original door and fanlight to N elevation.                  Blue engineering brick to plinth top.                  Cast iron and plastic combined rainwater and soil pipe to N elevation.                  Two lower floors, staircase and windows inserted.                  2 different window types: 2nd floor - concrete lintels over Crittall windows and red brick sills.                  1st floor - blue brick sills with brick soldier course over metal picture window with side lights.                  Ground floor - stone threshold to S opening + stone floor to upper room.                  Upper floors - concrete planks with painted finish on 2nd floor and lino on 1st supported on steel beams painted (as is concrete flat roof).                  First floor room is plasterboarded.</p> <p><b>Fittings</b>                  'Porch' with light at 2nd floor window level to S elevation.                  Stone plaque in S elevation at 1st floor level inscribed RGPF VR 1879.                  Iron hooks, telegraph insulators + fuseboxes fixed to building.                  Handbasin and associated plumbing on 2nd floor.                  Shelving to ground floor room.</p>
Condition:	Good
Stability:	Good
Health and Safety:	Deep drop outside North door

# Waltham Abbey Royal Gunpowder Mills

## STRUCTURE SUMMARY SHEET

Structure No: L137  
 Structure Name: Laboratory/Press House No2  
 Structure Type: Building  
 Structure Date/Status: In Conservation Area  
 Grid Reference: TL 37725 01418

Date: September 1998  
 Rev:

Preservation Strategy:	Conserve
Construction:	<p><b>Externally</b>                  Long rectangular single storey building, 53.1 m x 8.6 m divided into seven bays: bay walls 2 bricks thick.                  Later corridor, part glazed, with 1 brick thick walls.                  E extension is also to N side (lavatories associated with L166) and to S side (brick with flush metal posts).                  To main building, brick bay walls project slightly above roof.                  W elevation has large high metal windows, one per bay, with concrete external sills and tiled internal sills.                  S room has glass blocks.                  E elevation (corridor wall) has metal windows with concrete lintels (continuous) and sills.                  Timber double entry doors on S elevation to corridor, and at link with L166 in a part-glazed timber-framed extension which projects into one of the end rooms.                  Fire exit doors with window to E elevation and 3 fire doors with windows to W elevation.                  S extension has timber windows (tile external sills) to W and metal windows (concrete external sills) to S side.                  Roof felted.                  Rooflights to E slope of bays.                  Corridor roof is continuous with main building.                  Asbestos cement gutters and rainwater pipes.</p> <p><b>Internally</b>                  Concrete slab floor.                  Rooms have plastered walls.                  Plasterboard soffits.                  Parquet floors - some have been divided, some have floor gullies.                  Partition wall to corridor is timber framed, part glazed.                  S room has glass block.                  Corridor has iron columns supporting roof.                  Suspended ceiling.                  Lino floor covering.</p> <p><b>Fittings</b>                  N extension has lavatory fittings.                  Internal fittings include radiators, pipework, vents, fumeboxes etc.                  Externally include extract ductwork to W face.</p>
Condition:	Fair

Record Information:

Health and Safety:

Good

Stability:

# Waltham Abbey Royal Gunpowder Mills

## STRUCTURE SUMMARY SHEET

Structure No: L138  
 Structure Name: Store House  
 Structure Type: Building  
 Structure Date/Status: In Conservation Area  
 Grid Reference: TL 37678 01410

Date: October 1998  
 Rev:

Preservation Strategy:	Conserve
Construction:	<p><b>Externally</b>                  Single storey vaulted brick building 4.01 m x 3.94 m x 3.7 m high with later timber porch to W side.                  Walls 600 mm thick.                  1 window to N and S walls.                  Timber lintels and sills.                  4 panel door in W wall.                  Gables to E and W side.                  Slated roofs.                  No rainwater goods.</p> <p><b>Internally</b>                  Screeded concrete floor.                  Plastered brick vault and walls.                  Timber framed porch with asbestos sheeting to sides and felt covered boarding to roof.                  Timber boarded floor.</p> <p><b>Fittings</b>                  Copper lightning conductor tape connected to ridge spike.                  Internal heating pipe.                  Timber shelf to N side of door.</p>
Condition:	Fair
Stability:	<p>Good (generally)                  Fair (Porch)</p>
Health and Safety:	<p>Porch clad in asbestos cement                  Decking possibly rotten/unstable</p>

# Waltham Abbey Royal Gunpowder Mills

## STRUCTURE SUMMARY SHEET

Structure No: L139  
Structure Name: Magazine  
Structure Type: Building  
Structure Date/Status: In Conservation Area  
Grid Reference: TL 37706 01354

Date: October 1998  
Rev:

Preservation Strategy:	Conserve
Construction:	<p><b>Externally</b> Rectangular gabled stretcher bond stock brick building, 1 brick thick, 4.35m x 2.9m x 2.9m to apex. 1 brick thick party wall on ridge line projects through roof dividing building into 2. Top of party wall corbelled each side beyond gables. Timber barge boards. Duckboard sign for asbestos roof. Conductor pole and spike. To N and S side double boarded doors with concrete lintels. Red light and switch. Roof stripped and replaced with polythene sheeting. ½ round cast iron gutters to eaves. Concrete floors.</p> <p><b>Internally</b> Painted brick walls. Bench to N side with lino. Shelving to S side.</p> <p><b>Fittings</b> Sockets. Safety lights. Heating pipe loop.</p>
Condition:	Fair
Stability:	Good
Health and Safety:	

# Waltham Abbey Royal Gunpowder Mills

## STRUCTURE SUMMARY SHEET

Structure No: L141  
Structure Name: Solvent Extraction Room  
Structure Type: Building  
Structure Date/Status: 1889/Listed Grade II  
Grid Reference: TL 37652 01376

Date: September 1998  
Rev:

Preservation Strategy:	Conserve
Construction:	<p><b>Externally</b> Rectangular gabled yellow stock brick building in English bond, 5.8m x 4m x 5.2m to gable. 3 red string bonds; corbelled eaves; brick-on-edge on brick creasing to gables. Steam pipe entry to E wall and signs of removed structure. Timber stair; flush door with concrete lintel; vent fan over on W elevation. Timber on cement under arch; painted stone sill. Air bricks; services entries; label "no 14 3-34" to S elevation. To N side a similar window with air bricks; electrics; hydrant hoops; lead waste with decorative bracket. Slated roof over brick vault with new plastic rainwater fittings.</p> <p><b>Internally</b> Walls and vaults lined in hardboard; lino on timber floor.</p> <p><b>Fittings</b> Electrics, pipes, heating loop.</p>
Condition:	Good
Stability:	Good
Health and Safety:	Timber external stair rotten

**Waltham Abbey Royal Gunpowder Mills**

**STRUCTURE SUMMARY SHEET**

Structure No: L142  
 Structure Name: Toilet  
 Structure Type: Building  
 Structure Date/Status: In Conservation Area  
 Grid Reference: TL 37767 01276

Date: September 1998  
 Rev:

Preservation Strategy:	Conserve
Construction:	<p><b>Externally</b>                  Rectangular brick building 4.15m x 3.4m x 3.5m to apex of gable, with projecting brick modesty screen to S side.                  Walls sand-faced flettons, gables to E and W side.                  S elevation has doorway (door missing) with concrete lintel.                  W side 4 no airbricks.                  N side metal window with concrete lintel and tile sill and soil and vent pipe.                  Floor, projecting concrete slab tiled.                  Roof stripped but timber survives.                  No gutters.</p> <p><b>Internally</b>                  Walls plastered ½ height, painted above.                  Boarded ceiling.                  2 no cubicles and doors.</p> <p><b>Fittings</b>                  Outside, electrical intake on S wall, light on E wall.                  Inside 2 no urinals, wash hand basin and water heater, 2 no WCs, tubular heaters.                  Tank in roof space</p>
Condition:	Good (no roof)
Stability:	Good
Health and Safety:	

# Waltham Abbey Royal Gunpowder Mills

## STRUCTURE SUMMARY SHEET

Structure No: L143 Date: September 1998  
 Structure Name: Electrode Boiler House/Incorporating Mill Rev:  
 Structure Type: Building  
 Structure Date/Status: In Conservation Area  
 Grid Reference: TL 37719 01348

Preservation Strategy:	Conserve
Construction:	<p><b>Externally</b>                  Rectangular gabled stock brick building with verandah, later low pitched E extension and NW rooms. 27.5m x 14.7m x 3.1m to eaves.                  Main structure is of 6 bays divided by 2 brick thick cross walls.                  W wall remains.                  Brick to 1100mm high with quarry tile sill and glazed screen (including one door per bay) above.                  Only 3 bays of E side remain.                  W verandah of steel columns carrying timber rafters and exposed boarded soffit, now infilled with timber screen over brick plinth wall.                  Columns boxed in and rendered at low level.                  Later flat ceiling, now ripped out, caused W screen to be altered.                  Other modifications to all remaining bays.                  NW extension comprising lobby and 2 rooms, built in 2 phases?                  Similar window walls but with concrete lintels.                  E extension built to match original with piers on cross wall lines.                  Subdivided into N side, 4 bay room and S side 2 bay with latter contiguous with main building forming one large room. Later double doors to N elevation to both extensions.                  Single door to S of W verandah.                  Double doors to S of E elevation.                  All doors flush.                  Steel purlin roof to main structure, rafters with hardboard soffit; felted boards over.                  Other roofs felt on boards with some steel beams.                  Hardboard ceilings or plasterboard (to E side).                  Quarry tiled floor to original building.                  Concrete with lino to W side and bare concrete with floor ducts to E side.</p> <p><b>Fittings</b>                  Many boxes with switch gear to original W wall.                  Flues; vents; concrete benches; Belfast sink.                  High level beams (for belt drive system? RCHME).                  Heating loops.                  Pipes and gauges.                  Scar in N gable for bearing box (RCHME).</p>
Condition:	Fair



Record Information:

Health and Safety:

Stability:

Good

# Waltham Abbey Royal Gunpowder Mills

## STRUCTURE SUMMARY SHEET

Structure No: L144  
 Structure Name: Solvent and Waste Store  
 Structure Type: Building  
 Structure Date/Status: In Conservation Area  
 Grid Reference: TL 37709 01270

Date: September 1998  
 Rev:

Preservation Strategy:	Conserve
Construction:	<p><b>Externally</b>                  Rectangular brick building with gables 4.8m x 2.29m x 2.63m high.                  Walls 1 brick thick.                  Building divided into 2 rooms with dividing wall rising above roof to form ridge parapet.                  S wall has double doorway.                  W wall has single doorway into N room with metal frame and concrete lintel.                  N wall has metal frame remains of projecting canopy.                  E wall as W side but metal and mesh door remains.                  Roof was corrugated asbestos cement sheets, roof covering now gone and protected by plastic sheeting.                  Angle iron purlins and timber barge boards remain.                  Cast iron gutters and rainwater pipes to N and S sides.                  Concrete slab floor.</p> <p><b>Internally</b>                  Both rooms are rendered.</p> <p><b>Fittings</b>  <b>Internally:</b> light to S side room and 6 no shelves to N room.  <b>Outside:</b> on N side light, 3 no signs and cupboard, on W side remains of timber object.</p>
Condition:	Fair
Stability:	Good
Health and Safety:	

## Waltham Abbey Royal Gunpowder Mills

### STRUCTURE SUMMARY SHEET

Structure No: L145  
 Structure Name: Laboratory/Incorp House No.6  
 Structure Type: Building  
 Structure Date/Status: Listed Grade II  
 Grid Reference: TL 37674 01340

Date: September 1998  
 Rev:

Preservation Strategy:	Conserve
Construction:	<p><b>Externally</b>                      T-shaped building with central Engine House, Boiler House at E side and 3 bay wings to N and S sides; verandah to W side.  <b>Engine House:</b> 6.3m x 10.4m x 9.4m high.                      Stock brick walls with recessed panels and red brick decorations at top.                      E and W sides have 2 segmental headed windows with red brick arches.                      W side has plaque "Group F Mills 1878".                      2 later windows on S side.                      Doorway to verandah on W side and to Boiler House on E side.                      Felted hipped roof on boarding on rafters.                      Asbestos cement rainwater goods.</p> <p><b>Internally</b>                      Concrete floor and later painted brick partition walls and timber staircase to later timber first floor.                      Building divided into 2 rooms by stud partitions, only timber remains.                      Original walls plastered.  <b>Boiler House:</b> 6.5m x 16.3m                      Brickwork similar to Engine House.                      4 no recessed panels on N and S sides.                      1 no on E side.                      Later full width timber windows with concrete sills to N and S sides with one door to S side.                      E side fine red brick semi-circular doorway and frame with poor later door.                      Top of walls rebuilt with flat roof now removed.                      No gutters at present.</p> <p><b>Internally</b>                      Porch at E side.                      Concrete floor with deep floor ducts.                      W end partitioned in brick to form 2 rooms and central raised concrete steps and walkway to Engine House.                      Walls painted plaster.  <b>S Wing:</b> 2 brick wide partitions reduced in height, separate the 3 bays.                      Stock brick plinth, concrete floor over, then low brick wall to ½ height with concrete sill and timber windows over.                      S bay has no door to outside but remains of small brick building outside.                      3 no doors and steps to other 2 no bays.                      Asbestos cement rainwater goods.                      Shallow pitched roofs of felt on boards fixed to rafters on purlins.                      W side roof carries on to form roof to verandah.                      Rooflight in roof to N bay.</p> <p><b>Internally</b>                      Timber framing of partitions between bays and verandah.                      Concrete floors covering original undercroft.                      Each bay subdivided by later walls.                      All walls plastered.</p>

Condition:	Fair (Generally) Poor (East Wing)
Stability:	Good (generally) Poor (East Wing)
Health and Safety:	East Wing roof structure and wall heads missing. Remaining brick piers and windows potentially unstable.
Record Information:	

# Waltham Abbey Royal Gunpowder Mills

## STRUCTURE SUMMARY SHEET

Structure No: L146  
 Structure Name: Crystallograph Lab/Incorp House No.2  
 Structure Type: Building  
 Structure Date/Status: In Conservation Area  
 Grid Reference: TL 37719 01348

Date: September 1998  
 Rev:

Preservation Strategy:	Conserve
Construction:	<p><b>Externally</b>                  Rectangular gabled English bond stock brick building similar to L143. 31.9m x 8.8m x 3.1m to eaves.                  2 brick thick cross walls divide building into 7 bays.                  Modern timber infill walls; ½ glazed and rendered below to E elevation.                  Lean-to verandah has ceiling boards on exposed rafters on boxes.                  Steel columns to W side with modern boarded wall, also half glazed.                  Original half glazed wall screens and boarded timber doors to W side of main building.  <b>Roof:</b> felt on exposed boards on steeply pitched rafters on purlins to all bays but suspended ceiling to half of N bay.                  Walls generally painted brickwork but bay 5 (from N) is rendered.                  W screen fibre boarded and external walls hardboarded.                  Bay 5 divide into 2 by brick wall and both W wall screens silvered.                  External double doors to S division.                  Concrete floors variably carpeted, asphalted or covered in vinyl.                  Pitched roof link between L146 and 143 divided in 2 by brick cross wall.                  Construction as main building.                  S room empty and extended to E side with flat roof.  <b>N room:</b> toilet and store extended eastward on plastic canopy.                  Corridor floor to link is tarmac although W screen wall matches W corridor generally.                  Single escape door.  <b>Fittings</b>                  Mainly stripped out but remains of glazed brick supports to benches; high level beams cut off (for felt drive system - RCHME) other fittings pipes etc as L143.</p>
Condition:	Fair
Stability:	Good
Health and Safety:	

**Waltham Abbey Royal Gunpowder Mills**

**STRUCTURE SUMMARY SHEET**

Structure No: L147  
 Structure Name: Fire Engine House  
 Structure Type: Building  
 Structure Date/Status: In Conservation Area  
 Grid Reference: TL 37752 01343

Date: December 1998  
 Rev:

Preservation Strategy:	Conserve
Construction:	<p><b>Externally</b>                  Rectangular stock brick gabled building 5.1m x 3.9m x 4.2m high to apex.                  Walls 1½ bricks thick with engineering brick plinth and recessed panels to S, W and E walls.                  N wall has double doors and later SW infill.                  S wall has metal windows in timber frames with concrete lintel and sills.                  Roof stripped and covered in plastic (was corrugated sheet asbestos but may have been slate originally).                  Timber collar roof and ceiling joists.                  Plastic gutter on W side.                  No rainwater pipe, cast iron gutter and rainwater pipe on E side.</p> <p><b>Internally</b>                  Asphalt covered floor and painted walls.</p> <p><b>Fittings</b>                  Radiator and 2 ceiling lights internally.                  Emergency light and sign on E wall.</p>
Condition:	Poor
Stability:	Good
Health and Safety:	

# Waltham Abbey Royal Gunpowder Mills

## STRUCTURE SUMMARY SHEET

Structure No: L148  
 Structure Name: Lab/Store/Incorp House No.7  
 Structure Type: Building  
 Structure Date/Status: Listed Grade II\*  
 Grid Reference: TL 37700 01292

Date: December 1998  
 Rev:

Preservation Strategy:	Conserve
Construction:	<p><b>Externally</b>                      T-shaped building with central Engine House, Boiler House at E end and 3 bay wings to N and S sides.                      Verandah to W wall.  <b>Engine House:</b> 6.3m x 10.4m x 9.4m high.                      Stock brick walls with recessed panels and red brick decorations at high level.                      E and W sides have 2 segmental headed windows with red brick arches.                      W side has plaque "Group G Mills 1888-9".                      Later timber windows on N and S sides.                      Doorway to verandah on W side and to Boiler House on E side.                      Felted hipped roof on boarding with exposed collar rafter structure.                      Cast iron gutters.</p> <p><b>Internally</b>                      Concrete floor and later brick walls carrying steel beam supporting later timber.                      First floor has timber stair leading up.                      Original walls plastered, later walls painted brickwork.  <b>Boiler House:</b> 7m x 15.24m.                      Brickwork similar to Engine House 4 no recessed panels on N and S sides, and door to E side.                      Later porch in stock brick with concrete roof to N side.                      Bitumen covered felt roof on boarding on iron trusses with 2 vents.                      Cast iron gutters.</p> <p><b>Internally</b>                      Concrete floor.                      Wall to Engine House plastered, others painted brick.                      Concrete bench to NW corner.                      Timber steps up to Engine House.  <b>S Wing:</b> 2 brick wide partition walls separate the 3 bays.                      Brick plinth to E walls with above original iron frame now with rendered studwork below full height timber framed window.                      2 bays have stock brick infill wall to N end.                      All bays have boarded doors to outside with timber on metal steps.                      Cast iron gutters and downpipes.                      S side there is the remains of 2 small monopitched buildings -1 brick and 1 asbestos - cement covered.                      Roofs between walls are steeply pitched.                      S side - 2 S-most covered in zinc and third covered in felt.                      On boarding on 2 steel trusses per bay.                      W side roof carries on to form roof of verandah.</p>
Condition:	Fair

	Record Information:
	Health and Safety:
Good	Stability:



# Waltham Abbey Royal Gunpowder Mills

## STRUCTURE SUMMARY SHEET

Structure No: L149  
 Structure Name: Laboratory/Incorp House No.3  
 Structure Type: Building  
 Structure Date/Status: List Grade II  
 Grid Reference: TL 37750 01292

Date: December 1998  
 Rev:

Preservation Strategy:	Conserve
Construction:	<p><b>Externally</b>                  T-shaped building with central Accumulator House, and Engine House and Boiler House to E side (Pump House is in extension of Boiler House) and 3 bay wings to N and S sides.                  Verandah to W side.  <b>Accumulator House:</b> yellow brick with red brick details. 5.05m x 5.05m x 11m high.                  Semi-circular arched doorway, paired semi-circular arched recesses to each elevation with timber windows to E and W only, with false machicolation pattern of bricks above and to corbelled out cornice.                  Tie bar plates to walls, parapetted roof of unknown finish.                  Cast iron hopper and downpipe.                  Plaque on W side "Group E Mills 1887-8".</p> <p><b>Internally</b>                  Brick walls are painted with piers/recessed panels.                  To W side of verandah red brick arched opening.                  To E side of Engine House later opening of concrete lintel.                  Open to roof level, roof concrete planks on 2 no RSJs.                  Substantial timbers in N and S walls at approx 3.8m level.                  Steel walkway just above timbers.                  E-W side with platform above.                  Concrete floor with one plant base.  <b>Engine House:</b> 5.05m x 9.3m x 6.9m high.                  Yellow brick with red brick details.                  Brick pilasters and dentil cornice.                  No window openings.                  Hipped felted roof on boards on rafters.</p> <p><b>Internally</b>                  The same level as Accumulator House.                  Painted plastered walls.                  Double doorway to Boiler House and later single doorway to N wing.                  Subdivided by 1 brick thick fletton wall.                  Concrete floor.                  4 blocked and roofed over rooflights.                  Painted roof soffit except where reconstructed at W end.                  Substantial tie beam across towards E end.                  2 no. steels across at mid-point.</p> <p><b>Boiler House</b>                  13.7m x 7m x 6.9m high.                  Brickwork as the Engine House in 4 bays with plinth around.                  4 later windows with concrete lintels and sills to S side.                  2 windows as before to N side.                  Hipped slated roof on boarding on purlins on iron trusses; continuous ventilator to ridge.                  Cast iron and plastic rainwater goods.</p> <p><b>Internally</b></p>

Timber steps down from Engine House.

Concrete floor.

Painted brick walls later 1 brick thick dividing wall plastered both sides.

Door with concrete lintel to Pump House.

Soffit of roof boarding painted.

Floor duct.

#### **Pump House**

6.7m x 7.3m x 4.9m high added to centre of N elevation of Boiler House.

Yellow brick with gabled roof and 2 semi-circular headed windows with metal frames on N side and a later square metal window with concrete lintels and sill to E side.

Flush door to NE corner and 2 flush doors to W side where later building demolished.

Zinc roof on boards on purlins on one metal truss.

Cast iron gutters and downpipes (NE rainwater downpipe renewed in plastic).

#### **Internally**

Concrete floor.

Painted walls and boarding to roof.

Later block and brick partition walls, block wall plastered both sides.

#### **S Wing**

Walls 3 brick thick wide, narrowing to 1½ bricks at the top, sub-divided into 3 bays.

Brick plinth to E wall with above original iron frame now with rendered studwork, below full height timber framed windows.

Each bay has part-glazed door to outside with concrete and brick steps down.

Mixture of plastic and cast iron rainwater goods.

Steeply pitched roof covered with felt fixed boarded on iron purlins on iron trusses.

S bay has rooflight.

To W side roof carries on to form roof of verandah.

To S side timber framed porch, provides part access to W verandah and part to undercroft.

#### **Internally**

Iron and timber framing to wall between bays and verandah as E wall, only upper glazing remains.

The doors and lower panels have been removed.

Inner lining removed to E wall.

N&S bays have been subdivided by 1 brick thick wall; walls are painted. Soffit boarding to roof also painted.

Floor concrete covering original undercroft.

N bay has tiled lab bench surviving.

#### **N Wing**

Similar to S wing but timber or metal steps to outside and centre bay is cross divided.

Short floor duct in N bay.

Similar timber framed porch giving access to W verandah via double doors with no steps and single side door with steps.

#### **Verandah**

Originally open iron-framed onto cast-iron columns, later timber framed walling, cedar cladding to lower part, glazed to upper part, on stock brick plinth wall.

Verandah steps around the projecting Accumulator House.

Roof felt on boarding, some painted.

No ceiling.

Decking is timber on joists over deep space under - traps in floor to give access to this space.

Asbestos cement gutters and downpipes.

Opposite Accumulator House, double doors to outside, double doors at either end to outside, also door to room for access to undercroft at N side.

#### **Fittings**

None

Condition:	Good
Stability:	Good
Health and Safety:	Water-filled pit (depth unknown) near centre of East elevation
Record Information:	

# Waltham Abbey Royal Gunpowder Mills

## STRUCTURE SUMMARY SHEET

Structure No: L149/2  
Structure Name: Solvent Store  
Structure Type: Building  
Structure Date/Status: In Conservation Area  
Grid Reference: TL 37770 01250

Date: December 1998  
Rev:

Preservation Strategy:	Conserve
Construction:	<p><b>Externally</b> Brick rectangular building. Walls 1 brick thick, stocks externally, flettons internally, with shallow gables to N &amp; S sides. Doorways to N &amp; S walls, angle frame and grill door in angle frame doorframe. Concrete lintels over. Concrete floor. Roof now sheeted in plastic - originally corrugated asbestos on angle purlins. No evidence of gutters or downpipes.</p> <p><b>Fittings</b> 6 no painted timber shelves on angle iron brackets let into E and W walls.</p>
Condition:	Good
Stability:	Good
Health and Safety:	

# Waltham Abbey Royal Gunpowder Mills

## STRUCTURE SUMMARY SHEET

Structure No: L150  
Structure Name: Concrete Air Raid Shelter  
Structure Type: Building  
Structure Date/Status: In Conservation Area  
Grid Reference: TL 37709 01284

Date: August 1998  
Rev:

Preservation Strategy:	Conserve
Construction:	<p><b>Externally</b> Concrete rectangular structure with small projecting porches to E side at N and S ends. 9.2m x 5.2m x 2.6m high. Walls mass concrete. Roof reinforced concrete, remains of rainwater outlet at SW corner. Roof overhangs slightly all around, metal plates on outside of E and W walls at top connected to shelf angle supporting roof (?) inside.</p> <p><b>Fittings</b> Internally timber benches on E and W walls, in roof 2 no thick metal plates and 2 no circular shafts above E bench. Radiator and lights. Externally there is a timber box on W wall.</p>
Condition:	Good
Stability:	Good
Health and Safety:	Projecting metal rods at face level, East elevation

# Waltham Abbey Royal Gunpowder Mills

## STRUCTURE SUMMARY SHEET

Structure No: L151  
 Structure Name: Lab/Incorp No. 4  
 Structure Type: Building  
 Structure Date/Status: In Conservation Area  
 Grid Reference: TL 37766 01241

Date: January 1999  
 Rev:

Preservation Strategy:	Conserve
Construction:	<p><b>Externally</b>                  Long 7 bay rectangular building 32.1m x 8.8m x 3.7m to eaves with verandah to W. E long wall as L155, except infill wall is rendered timber frame and there are 5 no flush doors.                  To N and S ends pitched roof extensions with corrugated asbestos cladding. S extension connects to L155.                  N extension has WCs and metal windows and doors to outside.                  Main S and N walls gabled.                  Verandah as L155, but no ceiling and steel stanchions in line of wall every day.                  Roof felt on board on rafters, supports verandah.                  Plastic gutters and downpipes.                  Timber framed inner wall as L155 but largely intact.</p> <p><b>Internally</b>                  Bays all same size, generally painted brick walls and line.                  Labs and offices with some benches etc.                  2 bays have suspended ceilings.                  2nd bay from N end divided by brick crosswall.                  Concrete floor to verandah except where it runs to N extension to L155 where it is timber.</p> <p><b>Fittings</b>                  Lab bench, lights, fittings to WCs.</p>
Condition:	Good
Stability:	Good
Health and Safety:	Asbestos cement cladding in some areas.

# Waltham Abbey Royal Gunpowder Mills

## STRUCTURE SUMMARY SHEET

Structure No: L152  
Structure Name: Chemical Store/Solvent Store  
Structure Type: Building  
Structure Date/Status: In Conservation Area  
Grid Reference: TL 37777 01244

Date: January 1999  
Rev:

Preservation Strategy:	Conserve
Construction:	<p><b>Externally</b> Rectangular stock brick building 3.4m x 1.9m x 3.19m high. Walls half brick thick with 1 brick piers on NW and SE corners. Gables to N and S long sides. S wall has timber window and sill with turned brick arch. Doorframe with timber lintel and engineering brick threshold. N wall same as S but door opening has been changed and repaired with common bricks; timber infill above and concrete step externally. Roof covered in plastic sheet (was corrugated asbestos), purlins remain. Concrete floor slab. Rendered internal partition divides building through windows. Painted walls.</p> <p><b>Fittings</b> Lights to cubicles.</p>
Condition:	Fair
Stability:	Good
Health and Safety:	

# Waltham Abbey Royal Gunpowder Mills

## STRUCTURE SUMMARY SHEET

Structure No: L153  
Structure Name: Initiators Sections Incorp House No.8  
Structure Type: Building  
Structure Date/Status: Listed Grade II\*  
Grid Reference: TL 37720 01237

Date: September 1998  
Rev:

Preservation Strategy:	Conserve
Construction:	<p><b>Externally</b> T-shaped building with central Engine House, Boiler House at E end and 3 bay wings to N and S sides; verandah to W side.</p> <p><b>Engine House</b> 5.5m x 9.7m x 9.4m high. Stock brick walls with dentils, semi-circular arches to upper level windows to E and W side. The N wall has 2 modern timber windows with brick flat arches and concrete sills. E side has blocked window opening. S side has 1 window as for N wall and double doors under brick arch at low level. W wall has timber window under semi-circular arch, stone plaque "Erected 1867-8". Slated roof with lead hips, cast iron gutters and pipes. Klaxon on roof.</p> <p><b>Internally</b> Concrete floor and timber stair to later timber 1st floor level. Single door and frame to Boiler House, single door to N wing and double doors to verandah. Painted lined plaster walls at ground floor level. No ceiling; at first floor walls are painted plaster, line of removed partitions visible. At 1st floor, roof soffit is painted timber boarding with moulded rafters with 3 large timber cross beams. E side has blocked window recess. S side has metal box in wall.</p> <p><b>Boiler House</b> 6.5m x 16.15m. Brickwork similar to Engine House. 4 no recessed panels to N and S sides with rendered low plinth. On N side 4 no. modern wide windows with concrete lintels and sills. NE corner has brick extension with asbestos cement corrugated roof and timber windows to N side. To E side there is a single modern door beneath flat rubber brick arch; scar of old half-round arch remains. On S side windows as N side. Porch for double doors in third bay from W side of brick with concrete roof. Slate roof with lead hips and ridge ventilator. Timber fascias and plastic rainwater goods.</p> <p><b>Internally</b> Concrete floor and ducts. Later _ height ½ brick thick cross wall with doorway which has timber infilling above. Painted brick walls with roof soffit. Step down beyond cross-wall. N side extension has rendered walls.</p>



Health and Safety:	
Record Information:	1998 Bat Survey – Significant Bat Roosts North end of building. Bats were roosting behind hardboard lining beneath the roof sarking. Brown long-eared roost there both by day and night and the same species uses the area as a night feeding roost.

# Waltham Abbey Royal Gunpowder Mills

## STRUCTURE SUMMARY SHEET

Structure No: L154  
Structure Name: Magazine  
Structure Type: Building  
Structure Date/Status: In Conservation Area  
Grid Reference: TL 37710 01200

Date: August 1998  
Rev:

Preservation Strategy:	Conserve
Construction:	<p><b>Externally</b> Stock brick rectangular vaulted and gabled building 4m x 3.43m x 3.6m to eaves. Walls 2 brick thick with plinth, corbels to gable walls at eaves. W wall door in frame with flat yellow rubber arch over and timber threshold. N wall blocked window with stone sill. Other walls blank. Timber steps up to door. Roof covered with felt fixed to boards, modern timber fascias.</p> <p><b>Internally</b> Solid floor covered in lino. Walls and vault lined with matchboarding painted white.</p> <p><b>Fittings</b> Timber heaters internally.</p>
Condition:	Good
Stability:	Good
Health and Safety:	Rotten external stairs

# Waltham Abbey Royal Gunpowder Mills

## STRUCTURE SUMMARY SHEET

Structure No: L155  
 Structure Name: Lab/Incorporating House No.5  
 Structure Type: Building  
 Structure Date/Status: In Conservation Area  
 Grid Reference: TL 37783 01200

Date: February 1999  
 Rev:

Preservation Strategy:	Conserve
Construction:	<p><b>Externally</b>                  Long 7 bay rectangular building 32m x 8.5m x 3.5m to eaves with verandah to W side.                  E long wall stock brick infill walls 1 brick thick between bay walls 2 brick thick projecting 1½ bricks beyond.                  Infill walls on concrete slab with timber windows above to full height and width of bay.                  4 bays with flush doors.                  To S and N ends flat roofed brickwork extensions with timber windows and concrete sills.                  S extension connects to L159.                  N extension connected to L151 but now blocked up.                  Main S and N walls gabled.                  Verandah timber framed on concrete plinth wall boarded below and windows above.                  Roof felted on boarding on timber purlins (no trusses except in double bay).                  Later steels inserted at near ridge and eaves levels.                  Roof carries over verandah.                  Asbestos cement gutters and down pipes.                  Extension roofs felt on boarding on joists.                  Timber framed inner wall separates verandah from bays, largely dismantled but had upper half glazed.                  Verandah had ceiling.                  S side has 3 bays which are similar.                  Plaster walls, concrete floor with parquet or tiles (S bay); above these a double bay with remains of parquet floor.                  N side has 2 no. bays divided into small labs as L159 with suspended ceilings.                  Concrete floor to verandah.</p> <p><b>Fittings</b>                  Lab bench.                  Floor ducts.</p>
Condition:	Fair
Stability:	Good

Health and Safety:	
Record Information:	<p>1998 Bat Survey – Casual bat roosts – mostly used occasionally by individuals</p> <p>North end – some bats have entered beneath the fascia board this year but are not now resident (cobwebs over access cracks). Internally, occasional use as a night roost with moth wings. (Check there are no resident bats if doors are to be closed). Building probably used occasionally internally and bats may roost under ivy covered slate roof (brick vaulted ceiling internally).</p>

# Waltham Abbey Royal Gunpowder Mills

## STRUCTURE SUMMARY SHEET

Structure No: L157  
 Structure Name: Lab/Press House No. 4  
 Structure Type: Building  
 Structure Date/Status: Listed Grade I  
 Grid Reference: 37750 01174

Date: September 1998  
 Rev:

Preservation Strategy:	Restore
Construction:	<p><b>Externally</b>                      T-shaped building with central Engine House, Boiler House at E end, and 3 bay wings to N &amp; S sides; verandah to W side.</p> <p><u>Engine House:</u> 5.5m x 9.7m high. Stock brick walls with chamfered brick plinth &amp; brick dentil course. Windows with semi-circular head and central keystone to all elevations; cill of W Window has plaque "Erected 1861". Doorway to verandah on W side &amp; to Boiler House on E side. Slated hipped roof. Inside floor removed; later timber 1<sup>st</sup> floor &amp; steps.</p> <p><u>Boiler House:</u> 6.45m x 16.15m. Brickwork similar to Engine House; brick pilasters divide N &amp; S elevations into 4 bays. To each bay a window with segmental head and blind rectangular panel below. Wide doorway in E elevation with glazed semi-circular headed fanlight with keystone. Roof slate on boarding on 9 Iron trusses. Concrete floor &amp; steel columns and lifting beam internally.</p> <p><u>N &amp; S Wings:</u> 3 bays each, separated by wide bay walls. Brick plinth, iron &amp; timber framed. E wall with render or cedar boarding below full width windows. Roofs: slate on boarding on iron trusses. Floors &amp; other walls substantially removed. Remains of iron gunpowder mills at low level.</p> <p><u>Verandah:</u> Timber windows and vert. boarding above brick plinth. Roof: slate on boarding. Timber floor. Cast-iron columns &amp; support frame.</p>
Condition:	Fair
Stability:	Good except for structural movement to lean-to at South end.
Health and Safety:	Contamination to roof boarding internally. Loose roof slates, temporarily covered by tarpaulins. Structural movement as above.

# Waltham Abbey Royal Gunpowder Mills

## STRUCTURE SUMMARY SHEET

Structure No: L159  
 Structure Name: Lab/Press House No. 5  
 Structure Type: Building  
 Structure Date/Status: In Conservation Area  
 Grid Reference: TL 37800 01144

Date: December 1998  
 Rev:

Preservation Strategy:	Conserve
Construction:	<p><b>Externally</b>                  Long 7 bay rectangular building 61m x 9.7m x 3.5m to eaves with verandah to E side.                  W side long wall stock bricks 2 brick thick with 18 no. timber windows with steel angle lintels and concrete sills.                  S wall 1½ bricks thick, gabled with corbel brickwork to base of gable.                  Painted ghost of later building subsequently removed.                  Double doors to verandah.                  N wall also gabled with later extension to N side for power house and WCs and forming link with L155.                  Between N &amp; S walls 6 no. 2 brick thick cross walls divide building into 7 bays; 2 of these subsequently divided similarly into 3 rooms.                  Timber framed verandah on concrete base wall to E side with boarding below and windows above.                  Timber framed inner wall separating bays from verandah has been substantially stripped out leaving only glazing to upper part.                  2 double bays have brick pier in centre of this inner wall.                  All bays including these have stanchions at mid point to take metal roof trusses which carry on to form roof of verandah.                  Verandah ceiling joists remain, only subdivided bays have suspended ceiling.                  Roof felted on timber boards on timber purlins on steel trusses.                  Asbestos cement gutters and rainwater pipes.                  7 no. rooflights, vents on roof.                  Flat extension roof covered with felt on boards fixed to joists.</p> <p><b>Internally</b>                  Walls plastered.                  Floors concreted with parquet to labs.                  Floor ducts in most rooms.</p> <p><b>Fittings</b>                  Radiators.                  Fire extinguisher.                  Plant bases.                  WC fittings internally.                  Cold water tank mounted externally on N wall above extension for WCs.</p>
Condition:	Fair

Stability:	Good
Health and Safety:	
Record Information:	1998 Bat Survey – Casual bat roosts – mostly used occasionally by individuals North end – some bats have entered beneath fascia board earlier this year but not now resident (as shown by cobwebs over entry sites).

# Waltham Abbey Royal Gunpowder Mills

## STRUCTURE SUMMARY SHEET

Structure No: L160  
 Structure Name: Office and Lab/CMJ House  
 Structure Type: Building  
 Structure Date/Status: In Conservation Area  
 Grid Reference: TL 37820 01156

Date: February 1999  
 Rev:

Preservation Strategy:	Conserve
Construction:	<p><b>Externally</b>                  Rectangular brick building with gambrel roof 16.8m x 10.6m x 2.75m to eaves. Stock brick walls 1½ bricks thick with buttresses to lower parts of wall and between windows.                  Corbel course at eaves to N and S sides supporting cast iron eaves gutter. 3 no. later metal windows to N and S sides with concrete lintels and sills. Wall below windows is pebbledashed.                  E and W sides have gables of corrugated iron on timber frame. W side has double doors and 2 no. windows in brickwork and timber window to gable.                  E side has single door with concrete lintel and 2 no. metal windows in brickwork with a large metal window in the gable.                  To NE end, corrugated asbestos and timber porch over machine bed (?). The roof structure is timber trusses on wallplates at eaves level with purlins between and boarding over which is slated.                  Lead knee and red clay ridge tiles, 2 no. vents on top.                  Timber barge boards.</p> <p><b>Internally</b>                  Concrete floor.                  Painted brick walls, glass and metal partitions forming offices with central corridor and boarded ceiling inside.</p> <p><b>Fittings</b>                  Radiators.                  Lights.</p>
Condition:	Poor
Stability:	Fair
Health and Safety:	Localised rot in roof structure



Record Information:

1998 Bat Survey – Casual bat roosts – mostly used occasionally by individuals

Semi-mansard slate roof. A few small droppings were found on the lead flashing near apex of roof suggesting it is an occasional roost for several bats beneath flashing or slates.

# Waltham Abbey Royal Gunpowder Mills

## STRUCTURE SUMMARY SHEET

Structure No: L164  
Structure Name: Oven Room near L148  
Structure Type: Building  
Structure Date/Status: In Conservation Area  
Grid Reference: TL 37706 01280

Date: August 1998  
Rev:

Preservation Strategy:	Conserve
Construction:	<p><b>Externally</b> Rectangular brick building with monopitch roof size 6.06m x 2.67m x 2.7m high. Walls 1 brick thick, stock to outside, flettons to inside. Divided into 2: S end has 4 no. open fronted lockers with ½ brick dividing walls and concrete shelves with timber shelves below; metal screen and door to front (E) once covered in mesh; concrete floor. N end: the room has double louvred doors to outside with concrete lintel over and vent to W side; concrete floor. Roof now covered in plastic sheet but angle iron purlins and fascias of corrugated asbestos cement roofing remain.</p> <p><b>Fittings</b> Lights. Outside on S wall, supports for table and electrical control box.</p>
Condition:	Fair
Stability:	Good
Health and Safety:	

# Waltham Abbey Royal Gunpowder Mills

## STRUCTURE SUMMARY SHEET

Structure No: L165  
Structure Name: Mineral Jelly Store No.2  
Structure Type: Building  
Structure Date/Status: In Conservation Area  
Grid Reference: TL 37712 01086

Date: June 1998  
Rev:

Preservation Strategy:	Conserve
Construction:	<p><b>Externally</b> Rectangular stock brick building with remains of timber framed extension to N side. 9.5m x 5.7m x 6m high. Walls 1½ bricks thick with red brick arches. W wall has 2 double doorways, painted boarded doors. S wall has high level opening with pipe. E wall has 2 metal framed semi-circular headed windows with stone sills. N side has timber framed structure with 4 pairs of double metal doors and high level louvred vent in N wall of main building. Roof to main building has pitched slate with ventilating ridge tile detail (now blocked) on purlins on timber trusses. Cast iron gutters and downpipes. Timber fascia and bargeboards. N extension has monopitched felt roof on boards with one section of translucent corrugated sheeting; it was originally steeper. Wall cladding gone but timber windows to N and E side and doorway to W side survive. Concrete floor, original N side outside external wall of main building untreated.</p> <p><b>Internally</b> Main building has concrete floor and painted brick walls and soffit boarding divided into 2 rooms.</p> <p><b>Fittings</b> Remains of services to S room. Fittings to N room. Services externally.</p>
Condition:	Good (cladding missing from North lean-to)
Stability:	Good
Health and Safety:	

Record Information:

1998 Bat Survey – Casual bat roosts – mostly used occasionally by individuals  
Possible recent bat use beneath slates, but evidence unclear.

# Waltham Abbey Royal Gunpowder Mills

## STRUCTURE SUMMARY SHEET

Structure No: L166  
Structure Name: Lab and Office adjoining L134, L137  
Structure Type: Building  
Structure Date/Status: In Conservation Area  
Grid Reference: TL 37700 01436

Date: September 1998  
Rev:

Preservation Strategy:	Conserve
Construction:	<p><b>Externally</b> Single storey rectangular timber framed link building (between L134 and L137), with a central corridor with rooms to either side; 20.2m x 2.73m height to eaves. Concrete slab floor. Plasterboard partition walls with high level glazing to corridor. Flush timber double doors to either end of corridor with vision panels and single flush doors with vision panels to rooms. Large timber framed picture windows with top hung opening light to N and S elevations. Vertical boarded stained wood as exterior cladding and felt flat roof with plastic rainwater goods. Rooms carpeted.</p> <p><b>Fittings</b> Surface wiring and pipework. Fluorescent tube lighting.</p>
Condition:	Good
Stability:	Good
Health and Safety:	

# Waltham Abbey Royal Gunpowder Mills

## STRUCTURE SUMMARY SHEET

Structure No: L167  
 Structure Name: Glass and Chemical Store  
 Structure Type: Building  
 Structure Date/Status: Listed Grade II  
 Grid Reference: TL 37772 01128

Date: September 1998  
 Rev:

Preservation Strategy:	Restore
Construction:	<p><b>Externally</b>          Rectangular stock brick building 22.65m x 9.3m x 3.4m to eaves.          English bond long walls of 7 bays with recessed Flemish bond infill generally with header arch and 30 light metal window.          Stone cill.          Each pier formed is linked by a segmental arch to the next.          Chamfered brick, plinth (blue specials) with slate dpc.          Cast iron airbricks.          Each pier has red chamfered 'capital' and end bays are wider than others.          Central bay to W side not recessed and has double boarded doors.          Second bay from N side has timber lintels and boarded door to E elevation and S bay has similar double doors with stone steps up.          Middle 3 E side windows hardboarded externally.          2 bays to N elevation with similar arches and windows.          S gable wall in Flemish bond with long walls projecting beyond as piers where later demolished and central off-centre pier also.          Arches of doorway and window over.          Bays 2 to 5 (from N side) on E elevation and S gable are painted but not ends of piers faces.          5 sets of 4 cast iron steam pipes all around are cut off and infilled.          Timber board floor but part of N bay concreted.          Slated roof on exposed boards on timber purlins fixed to iron trusses with stone pads.          Felted over lantern.          Hip to N side and gable with verge to S side. Asbestos (?) hip tiles.          Cast iron ogee gutters to N and W sides and half round to E side all fixed to corbelled brick eaves.</p> <p><b>Internally</b>          Remains of lino; hardboarded office with ledged and braced door.          Belfast sink on brick supports to N side.          2 sets of roof trimmers (for skylights or vents - not present externally).</p> <p><b>Fittings</b>          Pipe entries and wastes to N elevation.          Pipe across W elevation at high level continuing around to S side.          High level heaters and spun aluminium and fluorescent strip lights.</p>
Condition:	Fair

Stability:	Fair
Health and Safety:	Rotten floor structure, East side. Missing floorboards in some areas.
Record Information:	1998 Bat Survey – Casual bat roosts – mostly used occasionally by individuals Slates slipping giving gaps where some sign of occasional use by bats was evident under slates. Only one or two bats were likely to use these gaps at a time (mostly pipistrelle).

# Waltham Abbey Royal Gunpowder Mills

## STRUCTURE SUMMARY SHEET

Structure No: L168  
Structure Name: Stores/Machine Shop Store  
Structure Type: Building  
Structure Date/Status: Listed Grade II\*  
Grid Reference: TL 37720 01050

Date: September 1998  
Rev:

Preservation Strategy:	Conserve
Construction:	<p>Taken from Carden &amp; Godfrey Architects Stock Condition Survey</p> <p><b>Externally</b> Rectangular single storey brick building with tower to E side; overall size 22.5m x 19.5m x 6m high (excluding tower). Walls 2 bricks thick. Built in many phases.</p> <p><b>Main Building - Exterior</b> Walls 2 pairs of pilasters with red brick detailing and stone abacus at both ends with one pair centrally. Brick plinth. Implied frieze and dentils and stone cornice with rendered parapet above. Red brick segmental arched windows with stone cills and timber sashes. S wall: pair of sliding timber doors W side of central pilasters and boarded door with fanlight and stone threshold. 2 windows to the E of pilasters. N wall: double boarded doors with fanlight over and window to W side, 3 no. windows to E side of central pilasters. W wall: double boarded doors with fanlight over, between 2 windows to N side and 2 windows to S of central pilasters. E wall: at corner paired pilasters with one window, then later and lower SE extension interrupts facade. SE extension has modified corner with implied pilaster, but similar cornice. S wall of extension: modern flush door and timber window with concrete cill. E wall has blocked window. Roof hipped slate. Cast iron rainwater goods.</p> <p><b>Interior</b> Concrete floor. Iron and timber roof trusses on octagonal columns. Cast iron valley gutter. Boarded soffits. 3 later low metal semi-glazed partitioned 'rooms'. 2 rooms with suspended ceilings: one forming lobby at entrance. Painted brickwork to walls.</p> <p><b>Tower - Exterior</b> Similar frieze, cornice and parapet as main building. W wall: 3 high level Diocletian windows with stone keystones and cills, slated vent to centre window. N wall: red brick arched opening with corbelled capitals and stone keystone with modern roller shutter and Diocletian window over as for W wall with stone cill inscribed "Erected 1857". S wall: high level arched opening with brick pilasters and stone capitals. E wall: 2 full height pilasters each end and 2 later openings with concrete lintels - one at ground level with flush timber door, the other approx 2m above</p>



	<p>ground with boarded door - and 3 blocked openings.  Hipped slate roof and cast iron rainwater goods.</p> <p><b>Fittings</b>  NE internal cast iron column has rounded section, probably for carrying a swing jib.  Asbestos cement porch to E side.  Light at cornice level.  Tower has 4 sets of 4 wall ties to E face.  Main building has lifting beam behind S side sliding doors.  Various fluorescent lights, signs, alarm bells etc.</p>
Condition:	<p>Good (generally)  Poor (roof finish)</p>
Stability:	<p>Good</p>
Health and Safety:	<p>Rotten roof structure, flat roofed extension, South East corner</p>
Record Information:	

# Waltham Abbey Royal Gunpowder Mills

## STRUCTURE SUMMARY SHEET

Structure No: L169  
Structure Name: Store and Press House  
Structure Type: Building  
Structure Date/Status: In Conservation Area  
Grid Reference: TL 37750 01060

Date: September 1998  
Rev:

Preservation Strategy:	Preserve as ruin.
Construction:	<b>Externally</b> Concrete slab 42.3 x 23.3m with scar of brick walls. <b>Fittings</b> None.
Condition:	
Stability:	Good
Health and Safety:	

Record Information:

# Waltham Abbey Royal Gunpowder Mills

## STRUCTURE SUMMARY SHEET

Structure No: L170  
Structure Name: Sewer Pump House  
Structure Type: Building  
Structure Date/Status: In Conservation Area  
Grid Reference: TL 37779 01094

Date: August 1998  
Rev:

Preservation Strategy:	Conserve
Construction:	<p><b>Externally</b> Single storey building 4.32m x 3.4m x 2.85m with overhanging flat roof. Concrete base. Door to S elevation. Metal framed window with concrete cill to W elevation. Vent pipe and manhole to E side. Roof felted, overhanging eaves with painted fascia on boarding on joists.</p> <p><b>Internally</b> Unpainted brickwork. Painted timber to roof.</p>
Condition:	Good
Stability:	Good
Health and Safety:	

# Waltham Abbey Royal Gunpowder Mills

## STRUCTURE SUMMARY SHEET

Structure No: L170A  
Structure Name: Store Shed  
Structure Type: Building  
Structure Date/Status: In Conservation Area  
Grid Reference: TL 37776 01094

Date: August 1998  
Rev:

Preservation Strategy:	Conserve
Construction:	<p><b>Externally</b> Rectangular stock brick vaulted building 4.15m x 3.8m x 4.1m to top of gable with pitched roof and raised gable walls. Walls 1½ bricks thick; N wall has 4 panel door in heavy wood frame. To E wall there is a timber window with turned red brick arch and stone cill. To W wall there are 2 airbricks. Plinth all around. Corbel brickwork at eaves. Gable walls have brick-on-edge on oversailing brick coping. Roof slate on vault. No gutters.</p> <p><b>Internally</b> Concrete floor. Unpainted walls and vault. Timber lintel over door.</p> <p><b>Fittings</b> Pipes running across ceiling.</p>
Condition:	Fair (generally) Poor (roof)
Stability:	Good (building) Poor (decking on North side)
Health and Safety:	Decking subsiding, North side

# Waltham Abbey Royal Gunpowder Mills

## STRUCTURE SUMMARY SHEET

Structure No: L175  
Structure Name: Firing Control Burning Ground  
Structure Type: Building  
Structure Date/Status: SAM  
Grid Reference: 37615 01692

Date: August 1998  
Rev:

Preservation Strategy:	Conserve
Construction:	<p><b>Externally</b> Rectangular concrete block building (220mm thick walls) with concrete plinth floor and flat roof - 3.7m x 2.73m x 2.2m high. East entrance has one internal doorway (frame existing only) and two armoured windows to N and W elevations. Painted internal walls.</p> <p><b>Fittings</b> Alarm bell to W wall by window. Siren to top of roof. Metal brackets for fire hydrants fixed to outside of W wall.</p>
Condition:	Good
Stability:	Good
Health and Safety:	

# Waltham Abbey Royal Gunpowder Mills

## STRUCTURE SUMMARY SHEET

Structure No: L176  
 Structure Name: Store/EFDC/Riggers Shop  
 Structure Type: Building  
 Structure Date/Status: Listed Grade II\*  
 Grid Reference: TL 37734 01024

Date: September 1998  
 Rev:

Preservation Strategy:	Conserve
Construction:	<p><b>Externally</b>                      Rectangular single store brick building 17.6m x 11m x 6m high.                      Walls 2 brick thick yellow brick with pilasters, recessed panels with red brick arches and bands at high level, and stone sills, cornice and pilaster capitals.                      Yellow brick dentils below cornice.                      Engineering brick plinth.                      N wall: later double doorway with sliding doors.                      W wall: 3 pairs of segmental headed metal windows between pilasters, with concrete sills.                      S wall: central high double doorway with half-round arch and red brick keystone for fanlight over and later sliding doors behind with one either side similar arches at lower level with recessed panels and metal windows.                      E wall original as for W side but later building L177 adjacent.                      S side opening blocked and wall rendered up to 2.5m level.                      N of L177 one window retained.                      Roof hipped with slating on boarding on iron trusses.                      Parapet gutter assumed asphalt.                      Cast iron hoppers and downpipes between end pilasters.</p> <p><b>Internally</b>                      Concrete floor.                      Painted brick walls.                      Concrete lintels to N sliding doors.</p> <p><b>Fittings</b>                      Externally there are redundant services and lights.                      Noticeboard to N wall.                      Lights internally.</p>
Condition:	Fair
Stability:	Good
Health and Safety:	

# Waltham Abbey Royal Gunpowder Mills

## STRUCTURE SUMMARY SHEET

Structure No: L177  
 Structure Name: Battery Charge House  
 Structure Type: Building  
 Structure Date/Status: Listed Grade II\*  
 Grid Reference: TL 37734 01024

Date: September 1998  
 Rev:

Preservation Strategy:	Restore
Construction:	<p><b>Externally</b>                  Rectangular brick monopitched building, size 8.1m x 5.2m x 6m high, extension to L176.                  To rear there is a low extension with concrete flat roof.                  Stock brick walls 1 brick thick with pilasters and yellow segmental arches.                  E wall has plinth at base, a total of 3 bricks thick.                  N wall has 2 metal framed windows with concrete cills either side of wooden double doors with metal fanlight over.                  Plaque "1902-03".                  E wall has 2 metal framed windows with concrete sills.                  The S wall is the highest and is plain apart from the extension; the lower part of the brickwork is painted.                  Roof: slate on board on timber purlins on 2 iron trusses.                  Large central rooflight now felted over.                  Cast iron cornice gutter and pipe.</p> <p><b>Internally</b>                  Concrete floor.                  Painted brick walls.                  The rear extension opening has steel beam over.                  To W wall there are 2 windows (original?) to L176 now blocked but frames survive.</p> <p><b>Fittings</b>                  Sink                  Gas meter                  Plant base                  Radiators                  Lights                  Steel beam across.</p>
Condition:	Good (walls) Poor (roof)
Stability:	Good (walls) Fair (roof)



Record Information:

Health and Safety:

Roof rotten

**Waltham Abbey Royal Gunpowder Mills**

**STRUCTURE SUMMARY SHEET**

Structure No: L178  
Structure Name: Burning Ground Solvent Store  
Structure Type: Building  
Structure Date/Status: SAM, in SSSI  
Grid Reference: TL 37625 01691

Date: December 1998  
Rev:

Preservation Strategy:	Conserve
Construction:	<p><b>Externally</b> Single storey London stock brick rectangular building 2.45m x 1.85m x 2.65m height with 250mm thick walls. Concrete floor which extends to form concrete platform in front of entrance (SE elevation). Corrugated asbestos pitched roof. Concrete lintel over door. Timber frame and door (iron mesh front). Low and high level vents to NW elevation.</p> <p><b>Fittings</b> None.</p>
Condition:	Good
Stability:	Fair – some subsidence
Health and Safety:	Asbestos cement roof

# Waltham Abbey Royal Gunpowder Mills

## STRUCTURE SUMMARY SHEET

Structure No: L179  
Structure Name: Blacksmith's Shop  
Structure Type: Building  
Structure Date/Status: In Conservation Area  
Grid Reference: TL 37672 01458

Date: November 1998  
Rev:

Preservation Strategy:	Conserve
Construction:	<p><b>Externally</b> Rectangular 3.65 x 3.6 x 2.3m high. Walls: corrugated translucent plastic on 100 x 50mm studwork to E and W walls. Timber flush door with vision panel to E wall. Painted corrugated iron on 40 x 40mm steel angle frame to N and S sides. Asphalted concrete floor slab with brick kerb. Corrugated iron roof with angle ridge; eaves; verges.</p> <p><b>Fittings</b> 2 safety lights. Steel shelving. High level heating pipe loop. Various steel panels.</p>
Condition:	Good
Stability:	Good
Health and Safety:	

# Waltham Abbey Royal Gunpowder Mills

## STRUCTURE SUMMARY SHEET

Structure No: L180  
 Structure Name: Pipe Fitters Shop and Store  
 Structure Type: Building  
 Structure Date/Status: In Conservation Area  
 Grid Reference: TL 37770 01038

Date: February 1999  
 Rev:

Preservation Strategy:	Conserve
Construction:	<p><b>Externally</b>                  Rectangular brick gabled building 10.1m x 10m x 6m high to apex of gable.                  Walls stock brick, N and S walls 1.5 bricks thick.                  E and W walls 1 brick thick but W wall increases to 2 bricks thick below windows.                  Yellow brick arches.                  N wall has 2 single doorways with painted boarded doors.                  E wall has 3 timber windows with engineering brick sills, 4 air bricks at high level.                  S wall has 1 single, 1 double flush doorstep with later metal framed window with concrete lintel and sill.                  Vent to W side.                  W wall has 3 timber windows, central one round headed with engineering brick sills, circular opening high in gable.                  Roof slate on boarding on rafters on purlins strutted off centre dividing wall.                  2 no. rooflights to S slope.                  Lead ridge.                  Remains of cast iron rainwater goods.                  Timber fascias and bargeboard.</p> <p><b>Internally</b>                  Both rooms have concrete floors.                  Painted brick walls and roof soffits.                  Later timber framed office in SW corner of E room.                  Dividing wall filled above plate level in timber frame.</p> <p><b>Fittings</b>                  Externally: low level canopy to W side and wing wall to W side from SW corner.                  Remains of services.                  Internally: E side has lights                  Radiators.                  Sink and water heater.                  W side: has tubular heaters and Xerograph.</p>
Condition:	Fair
Stability:	Good

Health and Safety:

Record Information:

1998 Bat Survey – Casual bat roosts – mostly used occasionally by individuals  
Bats have used the roof on occasion under south end ridge (lead covered).

# Waltham Abbey Royal Gunpowder Mills

## STRUCTURE SUMMARY SHEET

Structure No: L181  
Structure Name: Electrical Sub Station  
Structure Type: Building  
Structure Date/Status: In Conservation Area  
Grid Reference: TL 37757 01029

Date: February 1999  
Rev:

Preservation Strategy:	Restore (for use as sub-station)
Construction:	<p><b>Externally</b> Rectangular single storey brick building 32.5m x 4.7m x 3.9m high (max) - this building is wider, longer and higher than L182. Walls 1.5 bricks thick with brick porch with timber roof to N side and 2 doorways to S side (no windows). To W side 3 no. brick walls and concrete roof enclosures for gas bottles. Concrete roof. One boarded door on S side survives.</p> <p><b>Internally</b> Divided into 3 rooms, the E side of which was later divided by a blockwork wall; smaller room formed by this has work benches on both sides of opening through. Concrete floors. Painted brick walls and ceiling. W side: 2 rooms have deep floor ducts and vents in N wall at low level.</p> <p><b>Fittings</b> Safe. Lights.</p>
Condition:	Good
Stability:	Good
Health and Safety:	

# Waltham Abbey Royal Gunpowder Mills

## STRUCTURE SUMMARY SHEET

Structure No: L182  
Structure Name: Mess Room  
Structure Type: Building  
Structure Date/Status: In Conservation Area  
Grid Reference: TL 37770 01038

Date: February 1999  
Rev:

Preservation Strategy:	Conserve
Construction:	<p><b>Externally</b> Single storey rectangular brick building which with L181 is 32.5m x 4.7m x 3.9m high (max). Walls 1 brick thick flettons with 3 windows and door on S elevation. E side has a doorway and 2 windows. N side has 2 large doorways. Engineering brick quoins and dressings to openings, concrete lintels and sills. Metal windows with timber subframes. Only the door to the S side remains. Right side has concrete roof with cast iron hopper and rainwater downpipe to NE corner.</p> <p><b>Internally</b> Concrete floor. Painted concrete ceiling and brickwork walls internally. Timber remains of 2 internal partitions.</p> <p><b>Fittings</b> Ruined electrical conduit to N elevation. Lifting beam behind NW doorway. 2 heaters and a radiator.</p>
Condition:	Fair
Stability:	Good
Health and Safety:	

Record Information:

1998 Bat Survey – Significant bat roosts

Being used as night feeding roost with pipistrelle, brown long-eared and natterer's bat droppings. Also, moth wing remains show the building has occasional use as a night roost.



# Waltham Abbey Royal Gunpowder Mills

## STRUCTURE SUMMARY SHEET

Structure No: L185  
 Structure Name: Sport and Social Club/Lab  
 Structure Type: Building  
 Structure Date/Status: In Conservation Area  
 Grid Reference: TL 37600 01334

Date: August 1998  
 Rev:

Preservation Strategy:	Conserve
Construction:	<p><b>Externally</b>                  Rectangular gabled building 14.8m x 5.97m x 4.6m high.                  Timber boarded walls on stud frame on brick plinth.                  EW partition dividing building into 2 rooms with panelled door.                  Match boarded interior apart from SE corner where room is inserted in hardboard on studwork (now removed) and on main partition (also hardboard).                  Double flush doors with fanlight.                  Single flush door with fanlight and 3 metal windows to W elevation.                  Evidence of 2 infilled windows to NE elevation.                  3 metal and 1 wooden window to E elevation.                  1 metal window to S and signs of another infilled.                  ½ round cast iron gutter and downpipes.                  Timber fascias and bargeboards.</p> <p><b>Internally</b>                  Concrete floor covered with lino.                  3 king post trusses braced onto timber columns carrying boarded ceiling and corrugated asbestos roof.                  Half round cast iron gutter and down pipes.                  Timber fascias and bargeboards.                  Lead (?) ridge.</p> <p><b>Fittings</b>                  Sink lying on floor.                  Heaters, electrics etc.                  Lighting, switch gear to outside plus various vents and steel chimney.</p>
Condition:	Fair
Stability:	Good
Health and Safety:	Asbestos cement roof

**Waltham Abbey Royal Gunpowder Mills**

**STRUCTURE SUMMARY SHEET**

Structure No: L186  
Structure Name: Locker Magazine  
Structure Type: Building  
Structure Date/Status: In Conservation Area  
Grid Reference: TL 37620 01345

Date: August 1998  
Rev:

Preservation Strategy:	Conserve
Construction:	<p><b>Externally</b> Gabled, rectangular building 13.4m x 2.6m x 2.9m high. English bond fletton brick walls 1.5 bricks thick. All elevations blank except W side with 2 door openings to N and S sides (doors stripped out). Explosives limit sign and remains of 2 tables also on W side. Concrete floor. Corrugated asbestos roof on treated timber collar roof. No rainwater fittings.</p> <p><b>Internally</b> Bench to E wall with heating pipe under and thick brick wall to W side with 6 inset, steel lined lockers; one door remains, lying on floor.</p> <p><b>Fittings</b> Light to E elevation. Switch gear to N elevation. Internally one safety light on E wall opposite each locker.</p>
Condition:	Fair
Stability:	Good
Health and Safety:	

# Waltham Abbey Royal Gunpowder Mills

## STRUCTURE SUMMARY SHEET

Structure No: L187  
Structure Name: Locker Magazine  
Structure Type: Building  
Structure Date/Status: In Conservation Area  
Grid Reference: TL 37738 01197

Date: August 1998  
Rev:

Preservation Strategy:	Preserve as ruin
Construction:	<b>Externally</b> Concrete slab 3 x 11m <b>Fittings</b> None.
Condition:	
Stability:	Good
Health and Safety:	

# Waltham Abbey Royal Gunpowder Mills

## STRUCTURE SUMMARY SHEET

Structure No: L188  
Structure Name: Locker Magazine  
Structure Type: Building  
Structure Date/Status: In Conservation Area  
Grid Reference: TL 37750 01327

Date: December 1998  
Rev:

Preservation Strategy:	Conserve
Construction:	<p><b>Externally</b> Fletton brickwork long rectangular building with gabled short sides, 13.5m x 2.6m x 2.9m to gable. Walls 1½ bricks thick, featureless apart from 2 flush doors on S side at opposite ends. Roof missing (was corrugated asbestos, now covered in plastic). Timber trusses and purlins remain. To S side defective plaster gutter. On N side brackets only.</p> <p><b>Internally</b> Concrete floor. Unpainted walls. 6 solid fletton brick explosives lockers built as part of S wall; metal linings but no doors survive.</p> <p><b>Fittings</b> On N wall internally, bench, heating tubes and lights opposite each locker. Externally electric intake to W wall and table to S wall by W door.</p>
Condition:	Fair
Stability:	Good
Health and Safety:	

# Waltham Abbey Royal Gunpowder Mills

## STRUCTURE SUMMARY SHEET

Structure No: L189  
 Structure Name: Proof Stand  
 Structure Type: Building  
 Structure Date/Status: SAM, in SSSI  
 Grid Reference: TL 37655 01550

Date: September 1998  
 Rev:

Preservation Strategy:	Conserve
Construction:	<p><b>Externally</b>                  Rectangular chamber 5.45m x 4.5m surrounded by 2 steel sheet piled and 2 steel lined concrete earth walls, an earth bank and associated structures.                  Concrete walls with 2 apertures each, one with wires through, the other for viewing.                  100mm diameter pipe through S wall.                  Entrance through alley to N side, walls part concrete wall, part sheet piled.                  Fixing device on S wall.                  Concrete floor with 2 sumps, central steel plate and associated steel blocks.                  Massive girder structure enclosure.                  Steel beam and plate ceiling.                  Concrete observation rooms built into W and E banks.                  Felted roofs.                  Concrete floors.                  Steel doors.                  Safety lights.                  Gauges.                  Bench to W side.                  Klaxon and ahu on E side roof.                  S side structure - part 460mm concrete block, part sand bag enclosure with tarpaulin roof, cut into bank.                  Various fittings including steel plate bolted to concrete block set into bank.                  A pipe protrudes and is baffled.</p> <p><b>Fittings</b>                  None.</p>
Condition:	Poor
Stability:	Poor
Health and Safety:	Structural condition questionable due to ad-hoc construction.

# Waltham Abbey Royal Gunpowder Mills

## STRUCTURE SUMMARY SHEET

Structure No: L190  
 Structure Name: Climatic Cubicles A and B  
 Structure Type: Building  
 Structure Date/Status: SAM, in SSSI  
 Grid Reference: TL 37555 01425

Date: September 1998  
 Rev:

Preservation Strategy:	Conserve
Construction:	<p><b>Externally</b>                  2 rectangular gabled buildings either side of courtyard with central control room (4.1m square x 2.5m high) to South.</p> <p><b>Control Room</b>                  Flemish bond, fletton brick room.                  'Crittall' windows and tiled cills, 2 to W side and 1 each to other elevations.                  Framed and boarded door to E elevation.                  Painted brickwork internally with tile splash backs for worktops (removed).                  Cable tray through N side window.                  Asphalted concrete floor up to kerb of now removed worktop.                  Later chipboard platform to N side carrying end of cable tray.                  Bitumenised flat concrete roof with oversailing walls and supported on arcade of 60mm diameter steel columns.                  Plastic rainwater goods.</p> <p><b>East Building (L190a; West Building, L190b, identical)</b>                  Alternating screen walls and cubicle blocks separated by cross passages.                  Open E and W aisles.                  S gable: prefabricated concrete frame infilled with ½ brick fletton brickwork; 2 piers.                  N gable: 1½ brick thick facings reducing to ½ brick at high level (with piers).                  N of S gable, first three 1½ brick crosswalls and 2 cubicle blocks are full height. 2 further cubicle blocks and 1 crosswall to half height only.                  Aisles comprise rows of cranked columns, occasionally braced by brick panels and holding concrete rafters which are pin-jointed and tied by a steel rod at the apex.                  Gauzed lantern light at apex.                  Corrugated asbestos roofing on steel angle purlins and steel ½ round gutters and cast iron rainwater pipes.                  Concrete floor slab.</p> <p><b>Fittings</b>                  Each cubicle has 2 brick thick plinths for copper lined wooden cupboard.                  One remains in cubicle A11; made by Chas Reason &amp; Co Ltd, Hope Works, Willow Walk, London SE1.                  Above each plinth is a concrete 'keyhole' enclosing a safety light.                  Other safety lights.                  Asbestos/stud wall to N gable with gates.                  Blackboard.                  Switch gear.                  High level cable trays.                  Shelving removed.                  Pipes.                  Switches.                  Electrics on N wall of Control Room.                  Hose reel in brick enclosure in courtyard.                  Asbestos cupboards to cubicles B13 and B14.</p>

Condition:	Good (generally) Poor (Control Room roof)
Stability:	Good
Health and Safety:	Asbestos cement roofs
Record Information:	

# Waltham Abbey Royal Gunpowder Mills

## STRUCTURE SUMMARY SHEET

Structure No: L191  
 Structure Name: Stability Test Laboratory  
 Structure Type: Building  
 Structure Date/Status: In Conservation Area  
 Grid Reference: TL 37640 01348

Date: November 1998  
 Rev:

Preservation Strategy:	Conserve
Construction:	<p><b>Externally</b>                  Rectangular, Flemish bond brick building, 11m x 6.65m x 3.3m high.                  Rectangular brick riser to S side, continues past eaves to form back of the boarded plant room set on felted flat concrete roof.                  Windows, metal with boot lintels and tile cills; 2 to W side and 3 to N side.                  2 doors to S elevation (one boarded, the other flush), one each to E and W side; all with fanlights.                  Lightning conductor pole to N elevation.                  Roof with timber fascias and ½ round cast iron gutters and rainwater pipes.</p> <p><b>Internally</b>                  1 brick thick brick walls divide building into N and S rooms, and latter into 2.                  Painted brick walls.                  Plastic sheeted concrete floors with kerbs and concrete bases for benches.                  Flush doors from N room to each S room.</p> <p><b>Fittings</b>                  Concrete bench to both S rooms.                  Partitions over stripped out.                  Bench to N side ripped out but tile splashback remains.                  2 porcelain waste hoppers outside N side elevation.                  Safety lights to each cubicle over benches.                  Spin aluminium shades to general lighting.                  Otherwise vents through windows, radiators, electrics.</p>
Condition:	Fair
Stability:	Good
Health and Safety:	



# Waltham Abbey Royal Gunpowder Mills

## STRUCTURE SUMMARY SHEET

Structure No: L195  
 Structure Name: Locker Magazine  
 Structure Type: Building  
 Structure Date/Status: SAM, in SSSI  
 Grid Reference: TL 37670 01550

Date: November 1998  
 Rev:

Preservation Strategy:	Conserve
Construction:	<p><b>Externally</b>                      L-shaped building, back to back with rectangular building.                      English bond stock brick walls, 1½ bricks thick to N side (L-shaped) room and 1 brick thick to S side.                      Painted internally.                      Raised in stretcher bond ½ brick thick walls, for pitched roofs.                      Double louvred timber doors to E wall of S room.                      Flush door to N wall of N room; removed.                      Soldier arch to E door.                      Continuous edge beam to N building marking flat roof.                      Concrete floors.                      Clear plastic roof covering to N side monopitch at lower level than S.                      Corrugated asbestos S roof draining to SE corner.                      Timber fascias.                      Crude timber framing with E-W steel to right-hand side to mid-span.</p> <p><b>Internally</b>                      Brick partition to N room with 570mm deep steel-lined cupboard.</p> <p><b>Fittings</b>                      Heater.                      Aluminium light shade.                      Switch gear.                      Wires on dexion through W wall to L189.                      Crude timber porch covers wires and remains of steel bench between W wall and L189.                      Tarmac hardstanding all round.                      Slab to S side.</p>
Condition:	Fair
Stability:	Good
Health and Safety:	

# Waltham Abbey Royal Gunpowder Mills

## STRUCTURE SUMMARY SHEET

Structure No: L196  
Structure Name: Locker Magazine  
Structure Type: Building  
Structure Date/Status: In Conservation Area  
Grid Reference: TL 37589 01389

Date: August 1998  
Rev:

Preservation Strategy:	Conserve
Construction:	<p><b>Externally</b> Rectangular stretcher bond fletton brick building 2.75m x 2.44m x 2.55m high. Double cambered concrete flat roof with drip. Tiled concrete floor (projecting out as plinth for brick walls). Flush door to W elevation. Metal window with tiled cill to N elevation.</p> <p><b>Fittings</b> Heating pipe. Switchgear. Electrics. Concrete benches on brick supports to ½ N, E and S walls.</p>
Condition:	Good
Stability:	Good
Health and Safety:	

# Waltham Abbey Royal Gunpowder Mills

## STRUCTURE SUMMARY SHEET

Structure No: L198  
 Structure Name: Laboratory  
 Structure Type: Building  
 Structure Date/Status: In Conservation Area  
 Grid Reference: TL 37644 01344

Date: September 1998  
 Rev:

Preservation Strategy:	Conserve
Construction:	<p><b>Externally</b>                  Rectangular, brick building in stretcher bond, (size 9.2m x 10.7m x 2.95m high overall) with corridors to W and E sides stopping short of N elevation.                  To W and E internal walls of main building, brick return walls to enclose bench (now removed).                  Flush door to adjacent corridor.                  Long, 1 brick thick screen wall to N wall to form N corridor.                  All 3 corridors have concrete benches to external walls with partitions over (now removed).                  Flush doors to N ends of W side and E side corridors.                  Glazed timber double doors and side lights to S side of main room with external concrete canopy.                  Metal windows in N, E and W main room walls to provide borrowed light to corridors.                  Conductor poles to E and W elevations.                  Inner walls painted brickwork.                  Felted concrete flat roof with 2 vent 'chimneys' and 2 lantern lights to main room.                  Timber fascias.                  Internal cast iron rainwater pipe and cast iron or plastic gutters.                  Small boarded plant housing to N end of roof.                  Concrete floors with gullies and troughs under benches.                  Plant base to centre.</p> <p><b>Fittings</b>                  Light to S elevation.                  Fluorescent strips inside.                  Vents and fans to all elevations.                  Hoops for hydrants with sheet steel canopy to W elevation.                  Heaters.                  Electrics.                  Switch gear.                  Pipes through roof to plant room.                  Wastes to benches.</p>
Condition:	Good
Stability:	Good

# Waltham Abbey Royal Gunpowder Mills

## STRUCTURE SUMMARY SHEET

Structure No: L199  
 Structure Name: Firing Chamber  
 Structure Type: Building  
 Structure Date/Status: SAM, in SSSI  
 Grid Reference: TL 37664 01592

Date: November 1998  
 Rev:

Preservation Strategy:	Conserve
Construction:	<p><b>Externally</b>                  Almost square firing chamber with two 460mm thick concrete walls to N and S side and two c2m thick earth filled steel and corrugated iron walls to E and W side.                  Earth walls raised in timber planking to roof level.                  Concrete lobby walls to S side with staggered entrances to chamber.                  Concrete floor with steel plate covered channel to side and pit in centre.                  Concrete filled sand-bag roof on steel joists to chamber.                  Lobby part roofed with concrete slab which jetties Eastward supporting a timber boarded plant room.                  Steel rungs to room sawn off.</p> <p><b>Internally</b>                  Walls steel lined with 'flue' to S side which continues up through plant room.</p> <p><b>Fittings</b>                  Steel hoop fixings internally.                  Electrics to lobby.                  Asbestos covered canopy to steel rack to W side.                  Steel railings to plant room landing.</p>
Condition:	Good
Stability:	Good
Health and Safety:	Trailing conduits on ground

Record Information:

1998 Bat Survey – Significant bat roosts  
Hibernation roosts in cracks and crevices between concrete.

ref: 753201/strucsum/L180-199

STRUCTURE SUMMARY SHEET

Structure No: 1  
 Structure Name: Grand Magazine  
 Structure Type: Building  
 Structure Date/Status: 1804/SAM, in SSSI  
 Grid Reference: TL 37636 02580

Date: November 1998  
 Rev:

Preservation Strategy:	Conserve
Construction:	<p><b>Externally</b>                  Rectangular barrel vaulted brick structure approx 8.1m x 19.7m with western barrel vaulted 'transept' approx 6.5m x 5.8m and remains of E lobby and shifting room.                  Stock brick walls, 3 to 3.5 bricks thick; with buttresses, generally 3b x 4b and stone capped; corbelled eaves. Window and openings to N and S end walls of main room, and two to S wall of west room; with stone lintels and cills; timber inner lintels with relieving arches over. Plinth all round with blue engineering plinth bricks. Decorate air bricks to plinth and above main room windows.                  Slate roof on brick vault. Brick abutments with stone copings. CI rainwater goods.</p> <p><b>Internally</b>                  Sockets in walls (for former high level floor?).                  Concrete floor as replacement for timber (on vaulted structure?)                  Timber wedges to walls for matchboarded panelling. Painted above.</p> <p><b>Fittings</b>                  None.</p>
Condition:	Poor.
Stability:	Poor.
Health and Safety:	Sections of wall have collapsed, structure unstable and unsafe.
Record Information:	

STRUCTURE SUMMARY SHEET

Structure No: 14  
 Structure Name: Guncotton Stove No. 8  
 Structure Type: Building  
 Structure Date/Status: 1903-1945/SAM, In SSSI  
 Grid Reference: TL 37575 02462

Date: October 1998  
 Rev:

Preservation Strategy:	Conserve.
Construction:	<p><b>Externally</b>                  Circular concrete platform (9.15m in diameter) within a circular brick wall 10.8m diameter; surrounded by an earthen traverse. E entrance. Gully between concrete platform and revetment walls. Timber floor plates to edge of slab (for demolished timber building).                  Concrete entrance flank walls (added later). Concrete plinths with holding down bolts in entrance.                  Drains between these linking gully to canal. Grooves in plinths presumably for timber deck.</p> <p><b>Fittings</b>                  Sections of iron pipes.                  Remains of timber steps to W on bank.</p>
Condition:	Good.
Stability:	Good
Health and Safety:	
Record Information:	

STRUCTURE SUMMARY SHEET

Structure No: 18  
 Structure Name: Guncotton Stove No. 9  
 Structure Type: Building  
 Structure Date/Status: 1903-1945/SAM, in SSSI  
 Grid Reference: TL 37545 02413

Date: November 1998  
 Rev:

Preservation Strategy:	Conserve.
Construction:	<p><b>Externally</b>                  Circular brick chamber, 10.8m diameter, 2.41m high; surrounded by earth bank. Stock brick walls, 1 brick thick at top. Mass concrete entrance walls (900 high). Concrete slab with perimeter pipe channel.</p> <p><b>Fittings</b>                  Cracked iron pipes, 300 diameter.</p>
Condition:	Good.
Stability:	Good.
Health and Safety:	
Record Information:	



STRUCTURE SUMMARY SHEET

Structure No: 22A  
 Structure Name: Quinan Stove  
 Structure Type: Building  
 Structure Date/Status: 1935/SAM, in SSSI  
 Grid Reference: TL 37452 023230

Date: April 1999  
 Rev:

Preservation Strategy:	Conserve.
Construction:	<p><b>Externally</b>                  Long concrete rectangular building 40.4m x 9.77m x 4.45m high with barrel vault and barrel-vaulted extensions at N &amp; S to W side.                  Walls thin concrete render on steel frame, 2.13m module, no joints visible; on W side 2 no. 10 pane iron framed windows per bay, on E side 1 No. 25 pane window per bay and 3 No. pairs framed ledged and braced doors with 12 pane fanlight over.                  Ends of extensions have narrower module with 1 no. 10 pane window per bay; doors at ends facing W.                  Roof comprises thin render on steel frame, subsequently painted with a bitumastic application. No gutter.</p> <p><b>Internally</b>                  Large space with 2.34m high partition 102mm wide at every bay; partitions extend about half way across room from W side. All walls and ceiling are lined with calico. Pipe through wall at low level in centre of every bay, W side.                  Floor asphalt on concrete; internal floor gutter on E side with outlets through wall to drain.                  On W side timber-framed lean-to with panelled walls and felt roof.</p> <p><b>Fittings</b>                  Outside on W side remains of hot air/cold water pipework system.</p>
Condition:	Poor.
Stability:	Fair.
Health and Safety:	Ground generally uneven, ditches in the vicinity.
Record Information:	

STRUCTURE SUMMARY SHEET

Structure No: 23  
 Structure Name: Guncotton Stove  
 Structure Type: Building  
 Structure Date/Status: 1904/SAM, In SSSI  
 Grid Reference: TL 37542 02302

Date: October 1998  
 Rev:

Preservation Strategy:	Conserve.
Construction:	<p><b>Externally</b>                  Concrete chamber, approximately 10.6m diameter, with projecting entrance walls; surrounded by an earth bank. Similar to 18.                  Main walls 2.44m high. Entrance walls 550mm high projecting into chamber and outward to canal; the N wall continues northward parallel to the canal.                  Concrete floor slab with 650mm wide perimeter channel. Bolts for former timber building. Base for central support.                  Projecting landing adjacent to entrance and over canal.</p> <p><b>Fittings</b>                  Sockets in lower third of blast walls.                  Remains of iron pipes (rivetted type - RCHME).</p>
Condition:	Good.
Stability:	Good.
Health and Safety:	Landing stage unsafe due to corrosion of steel members.
Record Information:	

STRUCTURE SUMMARY SHEET

Structure No: 26  
 Structure Name: Boiler House No. 4 Steam Stove  
 Structure Type: Building  
 Structure Date/Status: 1885/SAM, in SSSI  
 Grid Reference: TL 37415 02291

Date: November 1998  
 Rev:

Preservation Strategy:	Conserve.
Construction:	<p>Oval brick built chamber approx. 16.5m x 11m x 6m high with battered walls and a concrete barrel vault internally. Stock brick walls in English bond with plinth with eng. brick plinth stretcher, and with brick corbel detail at top of wall. Doorways with red ribbed brick arches at both ends (frame survives to E doorway); above E doorway stone tablet "No.4 Steam Store 1885". Square vent. Holes in centre of N &amp; S walls. Pitched roof of concrete screed over make up over vault; roof was once tiled or slated by bedding onto mortared vault make up. Gutter brackets survive and a short length of aluminium pipe. In centre of roof brick-work flue from inside with extract fan on top. Internally walls from floor level to 2m above are fair-faced brickwork: above, mass concrete. Tie bar (?) at W end. Concrete floor slab.</p>
Condition:	Good.
Stability:	Good.
Health and Safety:	
Record Information:	

# Waltham Abbey Royal Gunpowder Mills

## STRUCTURE SUMMARY SHEET

Structure No: 29  
 Structure Name: Picrite Store  
 Structure Type: Building  
 Structure Date/Status: 1897-1925 & 1925-1945/SAM, In SSSI  
 Grid Reference: TL 37502 02271

Date: October 1998  
 Rev:

Preservation Strategy:	Conserve.
Construction:	<p><b>Externally</b>                  Circular brick structure 10.7m diameter surrounded by earth bank. Wall in stock brick, 1 brick thick at top, 2.5m high. Concrete entrance walls cut through at oblique angle. Concrete slab base with remains of timber plate; gulley between slab and brick wall for hot-air pipe. Projecting landing stage adjacent to entrance and over canal.</p> <p><b>Fittings</b>                  Internal racking survives and some wire supports. Hot-air pipe and insulation in gulley.</p>
Condition:	Good.
Stability:	Fair.
Health and Safety:	Landing stage unsafe due to corrosion of steel members.
Record Information:	

STRUCTURE SUMMARY SHEET

Structure No: 36  
 Structure Name: Guncotton Stove No. 13  
 Structure Type: Building  
 Structure Date/Status: 1904-1945/SAM, in SSSI  
 Grid Reference: TL 37550 02235

Date: November 1998  
 Rev:

Preservation Strategy:	Conserve.
Construction:	<p><b>Externally</b>                  Circular concrete chamber surrounded by earth bank.                  Retaining walls concrete 2.3m high (max); 230mm thick at top. Entrance walls 630mm high. Concrete slab with perimeter pipe channel. Small brick plinth 150mm high with holding-down bolts for T-shaped timber structure on slab.</p> <p><b>Fittings</b>                  Pipes, lights etc on slab.</p>
Condition:	Fair.
Stability:	Good.
Health and Safety:	
Record Information:	

STRUCTURE SUMMARY SHEET

Structure No: 41  
 Structure Name: Earth Closet  
 Structure Type: Building  
 Structure Date/Status: 1897-98/SAM, in SSSI  
 Grid Reference: TL 37595 02189

Date: October 1998  
 Rev:

Preservation Strategy:	Conserve.
Construction:	<p><b>Externally</b>                  Small single storey brick (Flemish bond) building - 2.6m x 2.22m x 2.25m (height to gable). Pitched corrugated asbestos roof with concrete slab. Small low level opening to back of structure (S wall). Building divided into 2, a urinal (open to air) and a roofed cubicle to the west.</p> <p><b>Fittings</b>                  2 painted signs attached to exterior, read 'Clean'.                  1 painted sign attached to exterior reads 'S37'. Note that this is incorrect.</p>
Condition:	Good.
Stability:	Good.
Health and Safety:	Surrounding ground uneven. Manhole structure adjacent to west elevation.
Record Information:	

STRUCTURE SUMMARY SHEET

Structure No: 46A  
 Structure Name: Mixing House  
 Structure Type: Building  
 Structure Date/Status: c1940-1945?/SAM, in SSSI  
 Grid Reference: TL 37620 02130

Date: October 1998  
 Rev:

Preservation Strategy:	Conserve.
Construction:	<p><b>Externally</b>                  Raised circular concrete platform with a concrete and brick cill wall (with concrete gully beyond) encircled by a breeze block revetment (650mm high) wall surrounded by an earthen traverse. Walls rise to 3.2m high to flank cantilevered (concrete) landing/platform to canal to SE (iron fixing bolts to either side).                  Concrete block walled passageway entrance to NW with precast concrete beam roof over. 'L' shaped trough (with fixing bolts nearby) plus 3 groups of 4 post holes in circular platform. Raised concrete platform by flank walls to canal entrance to SW.</p> <p><b>Fittings</b>                  Rolled galvanised sheet pipe (300mm diameter) with associated post (with holding bar) to NW. Concrete sleepers set in earth outside NW opening heading towards bridge 43 and E3. Concrete posts with iron hooks running up N bank from BR43. Metal fixings (in pairs) along concrete wall of NW entrance.</p>
Condition:	Fair.
Stability:	Fair.
Health and Safety:	There is a dry canal between 46A and walking route.
Record Information:	

STRUCTURE SUMMARY SHEET

Structure No: 46R  
 Structure Name: Replacement Mixing House 2  
 Structure Type: Building  
 Structure Date/Status: 1941/SAM, in SSSI  
 Grid Reference: TL 37658 02184

Date: March 1998  
 Rev: A

Preservation Strategy:	Conserve.
Construction:	<p><b>Externally</b>                  Elongated horse shoe-shaped concrete block chamber with earth bank all round and tunnel to E side.                  Walls slope from 6.5m high to 1.0m high, S to N, in main chamber. Tunnel walls in block with sloping projections to front.                  Floors variously concrete, or asphalt on concrete, on various levels. Key-hole shaped building slab remains with brick plinth and holding-down bolts.                  Perimeter pipe channel to main chamber.                  Remains of wooden rails in entrance.</p> <p><b>Fittings</b>                  None.</p>
Condition:	Fair. Structure heavily vegetated.
Stability:	Poor.
Health and Safety:	Uneven ground conditions surrounding building. The retaining wall to the north (adjacent to Newtons Pool) is leaning – public access to structure to be prohibited.
Record Information:	



# Waltham Abbey Royal Gunpowder Mills

## STRUCTURE SUMMARY SHEET

Structure No: 78E  
Structure Name: Tank  
Structure Type: Slab  
Structure Date/Status: ?/SAM, in SSSI  
Grid Reference: TL 37486 01905

Date: March 1999  
Rev: A

Preservation Strategy:	Manage as ruin.
Construction:	<b>Externally</b> Hexagonal concrete tank? sheeted over with plywood.
Condition:	Fair.
Stability:	Good.
Health and Safety:	Tank and plywood not visible and condition unknown. Access to public to be prevented.
Record Information:	

STRUCTURE SUMMARY SHEET

Structure No: 88A  
 Structure Name: Tetryl Magazine & Mixing House  
 Structure Type: Building  
 Structure Date/Status: 1914-1940?/SAM, in SSSI  
 Grid Reference: TL 37594 01900

Date: November 1998  
 Rev:

Preservation Strategy:	Conserve.
Construction:	<p><b>Externally</b>                  Rectangular gabled building, 10.67 x 6 x 5m high, with traverse on 3 sides. Stock brick walls; corner and intermediate piers. Plinth with blue plinth specials; corbelled stepped gables; corbelled eaves (all corbels red). Stone copings to gables.                  W and E gables: window each side of central pier; much of the housing, gauze, canvas etc. of 'Danger light' remains to 2 of the 4.                  S wall: 2 piers. Timber frame for double doors; concrete wharf adjacent. Remains of cast iron rainwater goods.                  N wall: similar but with central window. Remains of 2 light housings and conduits.</p> <p><b>Internally</b>                  Walls painted inside. Concrete floor with square holes for fittings. No roof.</p> <p><b>Fittings</b>                  None.</p>
Condition:	Fair.
Stability:	Fair.
Health and Safety:	Stone copings to gable walls are loose.
Record Information:	

STRUCTURE SUMMARY SHEET

Structure No: 96B  
 Structure Name: C E Stove No. 3  
 Structure Type: Building  
 Structure Date/Status: 1908-1920/SAM, in SSSI  
 Grid Reference: TL 37842 01826

Date: October 1998  
 Rev:

Preservation Strategy:	Conserve.
Construction:	<p><b>Externally</b>                  Circular chamber surrounded by earth bank.                  31 course yellow brick blast wall with 1 brick thick brick-on-edge coping at top rendered on the back face. Sloping brick entrance flank walls with low projections to road and into chamber; blue brick copings.</p> <p><b>Internally</b>                  Concrete floor with holding down bolts on blue engineering brick plinth to perimeter; perimeter pipe duct at lower level.</p> <p><b>Fittings</b>                  One section of 300 diameter warm air pipe propped against wall.</p>
Condition:	Fair.
Stability:	Fair. Large fracture to N side of chamber.
Health and Safety:	
Record Information:	

STRUCTURE SUMMARY SHEET

Structure No: 102  
 Structure Name: Water Warden's Cottage  
 Structure Type: Building  
 Structure Date/Status: 1879/in SSSI, in Conservation Area  
 Grid Reference: TL 37869 01720

Date: November 1998  
 Rev:

Preservation Strategy:	Conserve.
Construction:	<p><b>Externally</b>                  T-shaped, 2 storey house; open porch to front; monopitch extension to rear; conservatory attached.                  Stock brick stretcher bond walls with occasional headers; red rubber segmental arches and string bands. Plinth with blue specials; air bricks only part visible.                  2 bays one to front (S), one to E; single storey. Timber windows, each a pair of casements under fixed top light with central mullion (stairwell windows sashes); painted cills (stone?) or tiled. External doors panelled, boarded and glazed. S.v.p. to W elevation and services entries. Plaque on E wall reads "RGPV VR 1879". Conservatory timber and asbestos boarding with glazing over. Timber floors (but concrete to kitchen, larder, dining lean-to. GR hall and conservatory).                  Hipped gable roof in plain machined clay tiles; angular ridges with finials and angular terracotta hips. Bays tiled and hipped; rear extension slated; conservatory has corrugated asbestos. Beaded barge boards and fascias; sloping boarded eaves soffits: 1/2 round CI gutters (4") and rwps (3"); lead valleys and some flashings (others render fillets); 2 chimneys (W and E elevations). Roof catslides to front to form open porch; 2 bays with 5" square posts braced to a beam carrying rafters (feet exposed) and flat boarded soffit; vertical board infill to W side above ceiling.</p> <p><b>Internally</b>                  3 rooms opened off stairwell and central hall on each floor. Lean-to on rear shown on architect's drawing as E.C. Plastered brick partitions with panelled doors and moulded architraves (late boarded doors to larder rear extension and former E.C.). Tiled Art Deco fire places to living and dining rooms; very old Crane boiler to brick chimney in kitchen; soot door in breast. Upstairs stone surrounds to bedroom fires with Aesthetic movement grate to N room (front room and bathroom fireplaces boarded up). Bath, WC and WHB to bathroom; later h.w. cup. Panelled cupboard to landing. Understair cupboard on Ground Floor. Walls papered and some painted over. Ceilings painted on paper generally. Floors carpeted. Kitchen, larder and lean-to store (former EC) painted brickwork with sheet vinyl to kitchen floor and paint to others. Sink to larder stripped out. Dogleg timber stair with continuous winders at turn; chamfered newels; moulded hand rail. Loft hatch on FF landing.</p> <p><b>Fittings</b>                  Shelving to kitchen, larder, store. Tank to loft. Bathroom fittings. Some loose furniture. Central light to each room. Surface wiring.</p>
Condition:	Poor.
Stability:	Poor. This building is fire damaged with unstable structure.

Health and Safety:

This building is to be cordoned off and secured to prevent access to the interior.

Record Information:

3/WALTHABB/SUMMARY/102

# Waltham Abbey Royal Gunpowder Mills

## STRUCTURE SUMMARY SHEET

Structure No: 103 Date: October 1998  
Structure Name: Press House Rev:  
Structure Type: Building  
Structure Date/Status: 1806-19 Corning Hse No.2, c1850 Press Hse No.2, by 1923 Press Hse No.1  
Grid Reference: TL 37675 01700

Preservation Strategy:	Conserve
Construction:	<p>Rectangular building foundations, c9x7m, N, S and E sides built into bank. 2 bk thick English bond stock brick walls on 3 bk. footings visible on W side for a height of 1100mm. 2 cross walls divide the structure into 3 cells. Pieces of slate lying on E bank and iron truss fragments on N bank: only evidence of superstructure.</p> <p><u>Fittings:</u> A cast iron gunpowder press sits in the central cell.</p>
Condition:	Fair
Stability:	Good
Health and Safety:	

# Waltham Abbey Royal Gunpowder Mills

## STRUCTURE SUMMARY SHEET

Structure No: 103/1  
Structure Name: Traverse  
Structure Type: Building  
Structure Date/Status: 1806-18  
Grid Reference: TL 37675 01693

Date: October 1998  
Rev:

Preservation Strategy:	Conserve
Construction:	Oval, battered brick walls c15 x 5 x 6m high, top half now rendered. Blue brick refacing to bottom W side.  <u>Fittings:</u> Pipe fixed to W. 2 valves in ground to S.
Condition:	Poor
Stability:	Fair
Health and Safety:	Loose Brickwork L104 adjacent – unstable structure

Record Information:

Low significance – Male fern, Hart's tongue fern, moss.



# Waltham Abbey Royal Gunpowder Mills

## STRUCTURE SUMMARY SHEET

Structure No: 104 Date: October 1998  
 Structure Name: Pump House Rev:  
 Structure Type: Building  
 Structure Date/Status: 1806-18 Corning Hse No.2. c1850 Pump Ho.for Press Ho.No.2  
 Grid Reference: TL 37675 01700 by 1923 Pump Ho.for Press Ho.No.1

Preservation Strategy:	Conserve
Construction:	<p>Rectangular; single storey; 9.55 x 5.35 x 7.6m min height to top of barrel roof. English bond multi-stock brick walls; half round gables to W and E; divided by N-S cross wall.</p> <p><u>E.Elev:</u> arched window opening only with Portland cill; 2 C.I. air bricks; plinth to part of wall.</p> <p><u>N.Elev:</u> doorway to E room, "flat arch", no door; duct opening with stone lintol and timber frame to E room + service entry; duct opening to W room; remains of C.I.rwp. &amp; gutter.</p> <p><u>W.Elev:</u> arched window opening, no window or cill; arched door opening, fixings for timber door frame; brick entry platform but no stair; C.I. air brick; 3 sockets for timbers.</p> <p><u>S.Elev:</u> central arched opening with 560 high stone pad bearing iron water wheel, 2140 radius. Small duct opening adjacent (as N wall). Leak across front of building with grating/gate to W; 815 brick wall with stone bearing outside, carrying other side of wheel. Jettied structure to E of wheel; steel props.</p> <p><u>W. Room:</u> conc. floor. N-S floor channel, with sump and C.I. fittings. Brick plant base. Iron heating pipes. Charred wall bonding timbers. Iron roof tie. Remains of danger light and conduits. Door to E.</p> <p><u>E. Room:</u> Concrete floor and channel as W room. Wheel axle supported on stone base, connected to pump on iron plate over N-S floor channel. Burnt out bonding timbers.</p> <p>Conduits; pipes.</p> <p>Corrugated iron roof remains; angle wall plates; tie rods; C.I.rwp + gutters.</p>
Condition:	Poor
Stability:	Poor
Health and Safety:	Unstable structure and metal roofing.

Record Information:

Bats over W door.

STRUCTURE SUMMARY SHEET

Structure No: S1  
 Structure Name: Pump House  
 Structure Type: Building  
 Structure Date/Status: 1941/SAM  
 Grid Reference: TL 37742 02014

Date: October 1998  
 Rev:

Preservation Strategy:	Conserve
Construction:	<p><b>Externally</b>                  Rectangular brick building, 4.64m x 4.07m x 3.25m high.                  1½ bricks thick fletton walls; English bond.                  High level cast iron air brick to each elevation.                  Timber boarded door to E side.                  Low level concrete lintel/pad in wall adjacent.                  Walls painted internally.                  Concrete floor.                  Raised plant base (with bolts) in centre.                  Trench to S and W sides with steel plate covers and 6 no. projecting 75mm diameter pipes.                  Tapering concrete flat roof; felted.                  Cast iron rainwater goods.</p> <p><b>Fittings</b>                  2 no. spin aluminium luminaires with glass shades.                  Wall table.                  Various pipes, electrics etc, internally and externally.                  Copper earth to N side.</p>
Condition:	Good.
Stability:	Good.
Health and Safety:	There is an open rectangular concrete pit on the N elevation.
Record Information:	

# Waltham Abbey Royal Gunpowder Mills

## STRUCTURE SUMMARY SHEET

Structure No: S5  
Structure Name: Process Building  
Structure Type: Building  
Structure Date/Status: 1941-1987/in Conservation Area  
Grid Reference: TL 37880 02064

Date: November 1998  
Rev:

Preservation Strategy:	Conserve.
Construction:	<p><b>Externally</b> Flat roofed rectangular building with verandah, 23.9m x 9.8m x 3.4m high, divided into several rooms. Walls generally fletton brickwork 1½ bricks thick, but with a concrete chamber on NE side (wall 310mm thick). Timber windows and flush doors with concrete lintels. Verandah on N side is timber framed, asbestos cement below with continuous timber windows above. Roof over main building is felt covered reinforced concrete with concrete downstand edge beam and steel cross beams. Felt on boarded joists over verandah. Brick tank room on main roof, felt covered. Asbestos cement gutters and downpipes to S and N elevations.</p> <p><b>Internally</b> Walls are painted brickwork. Concrete blast wall to room at W end of verandah. Verandah has no internal lining. Floors are concrete screed with asphalt finish.</p> <p><b>Fittings</b> Broken sanitary fittings, remains of boiler and tanks etc.</p>
Condition:	Fair.
Stability:	Good.
Health and Safety:	
Record Information:	

# Waltham Abbey Royal Gunpowder Mills

## STRUCTURE SUMMARY SHEET

Structure No: S10  
 Structure Name: Dark Room and Office Block  
 Structure Type: Building  
 Structure Date/Status: 1941/in Conservation Area  
 Grid Reference: TL 37920 02064

Date: November 1998  
 Rev:

Preservation Strategy:	Conserve.
Construction:	<p><b>Externally</b>                  Single storey, rectangular building with one room each side of lobby, entered from East side.                  Offshoot to centre of W elevation.                  Extension to S side; buttressed.                  English bond painted, fletton brick walls.                  Stretcher bond extension.                  On E elevation, a steel casement window with tiled sill each side of entrance.                  Door to S extension.                  Door to offshoot on S elevation.                  On W elevation, a similar window each side of offshoot plus another to S extension.                  Vent to offshoot.                  Window to N elevation.                  Cast iron soil and rainwater pipes.                  Felted concrete roof with water tank to S side.                  Timber boarded roof with felt finish to southern end of building.</p> <p><b>Internally</b>                  Brick partitions between lobby and rooms.                  Building entrance recessed so as to form cupboard to each room.                  E-W screen to offshoot.                  Timber modesty screen to S extension entrance.                  Main rooms wall papered.                  Others painted brickwork.                  Lino on concrete floor.                  Hardboard ceilings.</p> <p><b>Fittings</b>                  Switchgear to E elevation.                  Fluorescent lighting.                  Belfast sinks and worktop to offshoot.                  Shower and clothes rack to S extension.                  Sink with water heater to N room.                  Electric radiators.</p>
Condition:	Fair.
Stability:	Good.

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Record Information:

Health and Safety:

STRUCTURE SUMMARY SHEET

Structure No: S12  
 Structure Name: Chemical Store  
 Structure Type: Building  
 Structure Date/Status: 1941-1987/in Conservation Area  
 Grid Reference: TL 37928 02044

Date: November 1998  
 Rev:

Preservation Strategy:	Conserve.
Construction:	<p>Rectangular brick structure, divided into 3 rooms, 7.2m x 5.9m x 3.1m high. Fletton brick walls 1½ bricks high, red painted externally with 2 pairs of timber doors in E elevation and single door in N elevation all with concrete lintels.</p> <p>Concrete floor slab.</p> <p>Flat reinforced concrete roof slab, felted on top, no rainwater disposal system.</p> <p><b>Fittings</b> None.</p>
Condition:	Fair.
Stability:	Good.
Health and Safety:	
Record Information:	

STRUCTURE SUMMARY SHEET

Structure No: S13  
 Structure Name: Store  
 Structure Type: Building  
 Structure Date/Status: 1940-1987/in Conservation Area  
 Grid Reference: TL 37947 02052

Date: November 1998  
 Rev:

Preservation Strategy:	Conserve.
Construction:	<p><b>Externally</b>                  Rectangular brick structure with concrete roof, 8.33m x 5.2m x 4.9m high. Fletton brick walls, 1½ bricks thick, with piers on S wall. W wall has timber pedestrian gate, and roller shutter between engineering brick jambs - both have concrete lintels over. Concrete floor inside at roller shutters, otherwise herringbone parquet work block floor. Reinforced concrete roof approx 200mm thick on 2 steel cross beams. Covering not visible. Outlet to NW corner, to cast iron hopper and rainwater pipe.</p> <p><b>Fittings</b>                  Lifting beam and track.                  Shaded pendant lights.</p>
Condition:	Good.
Stability:	Fair.
Health and Safety:	
Record Information:	



# Waltham Abbey Royal Gunpowder Mills

## STRUCTURE SUMMARY SHEET

Structure No: S15  
Structure Name: Control Room  
Structure Type: Building  
Structure Date/Status: 1940/SAM  
Grid Reference: TL 38002 01947

Date: 30/9/98  
Rev:

Preservation Strategy:	Conserve.
Construction:	<p><b>Externally</b> Rectangular brick structure, concrete flat roof, 2.95m x 5.37m x 2.85m high. Semi-engineering brickwork, double flush doors on N side with concrete lintel.</p> <p>Concrete floor.</p> <p>RC roof with perimeter upstand, felt covering, plastic gutter and cast iron rainwater pipe on S side.</p> <p>Asphalted foundation.</p>
Condition:	Good.
Stability:	Good.
Health and Safety:	
Record Information:	

STRUCTURE SUMMARY SHEET

Structure No: S16  
 Structure Name: No. 1 Firing Point  
 Structure Type: Building  
 Structure Date/Status: 1940/SAM  
 Grid Reference: TL 38020 01934

Date: 30/9/98  
 Rev:

Preservation Strategy:	Conserve.
Construction:	<p><b>Externally</b>                  Almost square chamber, c10m x 10m, surrounded by earth bank.                  Battered concrete walls, 360mm wide at tops to 5ft thick at base, with holding down bolts visible to NW, SW and SE sides (for roof structure?).</p> <p>Curved concrete-walled tunnel entrance to NW side with projecting entrance walls, with sloping tops, faced one side at high level in fletton brickwork.</p> <p>Concrete exit tunnel to SW with similar projecting walls.                  Outside end with later concrete block infill, timber door.                  Further screen wall.                  Remains of steel angle porch on inside end of tunnel.</p> <p><b>Internally</b>                  Concrete floors inside end of tunnel with remains of asphalt.</p> <p>Perimeter gutter - 4 pits in main chamber, one circular 1.5m deep below slab, one with steel plate cover and another contains a concrete plant base.</p> <p>Exit tunnel floor at 2 levels with sump at SW end.                  Steel platform on stanchions sits in centre of chamber.</p> <p><b>Fittings</b>                  Various fixings for removed fittings in entrance tunnel; some electrics.                  Plant bases.                  Fluorescent lighting.                  Pipes etc to SW tunnel.                  Various fixings to main chamber walls.</p>
Condition:	Good.
Stability:	Good
Health and Safety:	Open pits to interior. Soffit to roof of tunnel may comprise loose concrete in places. Repair works R2 and R8 are only required at year 1 if public access to building is to be permitted.

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Record Information:



## STRUCTURE SUMMARY SHEET

Structure No: S19  
 Structure Name: Firing Point No. 2  
 Structure Type: Building  
 Structure Date/Status: 1941/SAM  
 Grid Reference: TL 37964 01918

Date: October 1998  
 Rev:

Preservation Strategy:	Conserve
Construction:	<p><b>Externally</b></p> <p>Square battered concrete walls surrounded by earth bank.</p> <p>Later massive armoured steel structure in centre, with concrete roof. Access via tunnel to S side.</p> <p>The roof covered in 0.3m of soil.</p> <p>Access via a NW tunnel + double doors to observation corridor around the 3 sides of the chamber, fitted with armoured glass windows.</p> <p>Lino covered concrete floor, ramps up to allow access to escape exit to SW side.</p> <p>The tunnel to E side is blocked at its inner end.</p> <p>Floor changes from tarmac to concrete at entrance.</p> <p><b>Fittings</b></p> <p>Iron stirrup pipe-fixing on W wall to E entrance.</p>
Condition:	Fair
Stability:	Fair
Health and Safety:	<p>Open pit adjacent to southern tunnel inside chamber. Soffit to roof of tunnel may comprise loose concrete in places. Repair works R5 are only required at year 1 if public access to building is to be permitted.</p>
Record Information:	

STRUCTURE SUMMARY SHEET

Structure No: S22  
 Structure Name: Control Room  
 Structure Type: Building  
 Structure Date/Status: 1941/SAM  
 Grid Reference: TL 37921 01874

Date: October 1998  
 Rev:

Preservation Strategy:	Conserve.
Construction:	<p><b>Externally</b>                  Rectangular 3.16 x 3.14 x 2.6m high.                  English bond 1½ bricks thick fletton brick walls.                  Door opening to S side, 1070mm wide, concrete lintel over.                  Timber louvred window to N wall.                  Pipe through wall above.                  550mm x 330mm vent to W wall.                  Concrete lintel.                  Airbricks to E and N sides.                  Concrete floor with 3 concrete plant bases.                  150mm concrete roof slab.                  Painted ceiling.                  Angle fixed to top.</p> <p><b>Fittings</b>                  Switch gear.                  Round metal 'pots' on roof.                  Copper earth conduits.                  Steam pipe valve.</p>
Condition:	Poor.
Stability:	Good.
Health and Safety:	
Record Information:	

STRUCTURE SUMMARY SHEET

Structure No: S23  
 Structure Name: Large Nitration Plant  
 Structure Type: Building  
 Structure Date/Status: 1941/SAM  
 Grid Reference: TL 37954 01857

Date: October 1998  
 Rev:

Preservation Strategy:	Conserve.
Construction:	<p><b>Externally</b>                  Rectangular concrete chamber approx 19m x 10.4m surrounded by earth bank.                  Concrete walls approx 1.4m high, with inset battens on N, E and S sides and wallplate on top.                  Walkway 1.2m wide at level of top concrete wall, then a concrete retaining wall 0.7m high.                  Floor is flooded and overgrown, but large circular base upstanding.                  Substantial timbers for roof survive not in situ: once had felt covering.                  At walkway level on NE side a recess in bank for timber framed rectangular building on concrete slab.                  Also at this level in NE corner angled entrance with concrete walls and roof.                  Exit on S side with concrete walls and roof and side channel in concrete floor.</p> <p><b>Fittings</b>                  Galvanised tank.</p>
Condition:	Good.
Stability:	Good.
Health and Safety:	<p>The concrete base is flooded and there is a pit adjacent to the S entrance.                  There are bolts projecting out of the walls of the northern approach tunnel.</p>
Record Information:	

STRUCTURE SUMMARY SHEET

Structure No: S25  
 Structure Name: Charge Assembly  
 Structure Type: Building  
 Structure Date/Status: 1941/SAM  
 Grid Reference: TL 37944 01804

Date: October 1998  
 Rev:

Preservation Strategy:	Conserve.
Construction:	<p><b>Externally</b>                  Long rectangular timber framed pitched roofed structure 17.9m x 3.1m x 2.95m high.                  Timber framed walls clad in asbestos cement sheet, above concrete base walls.                  4 no small windows (now blocked) each side.                  Narrow door in south gable end.                  2 no narrow doors in N gable end.                  Floor steps as building steps:                  In upper part concrete floor                  In lower part central shallow concrete channel 1.2m wide with tarmac walkway each side.                  Asbestos cement corrugated sheeting to roof, on timber trusses and purlins.                  Overhanging eaves.                  No gutters.</p> <p><b>Fittings</b>                  Pairs of leg bases either side of central channel.                  Extractor hood at W end.</p>
Condition:	Fair: asbestos sheets damaged in places, large hole in one sheet approximately one metre square.
Stability:	Fair: the earthwork bank is sliding towards the building causing distortion.
Health and Safety:	<p>This building is almost entirely constructed from asbestos boarding and corrugated roof sheeting, which is damaged.                  Structure extensively damaged internally. Public access to be prohibited and a 'Dangerous Structure' notice erected at entrance to building.</p>
Record Information:	

STRUCTURE SUMMARY SHEET

Structure No:	S27	Date:	October 1998
Structure Name:	Weighing House	Rev:	
Structure Type:	Building		
Structure Date/Status:	1920s/SAM, in SSSI		
Grid Reference:	TL 37675 02076		

Preservation Strategy:	Conserve.
Construction:	<p><b>Externally</b>                  Foundations and slab of demolished building surrounded by blast walls and earth traverses.                  Partial earth mounding still retained.                  Blue brick plinth for timber structure.                  Perimeter channel 350mm deep x 475mm wide.                  Concrete floor slab.  <u>N concrete block blast wall</u>: Stepped in section from 1425 at top to 1880 at base approx 3.8m high.                  Gap in middle for demolished loading stage (jetty remains).                  Extends to W side to retain traverse.                  To S side an L-shaped block wall with sloping top retains the other side of the traverse, height = 1m running N – S tapering to 4.2m on E – W face, supported on a concrete strip footing (assumed).  <u>W blast wall</u>: Concrete block.                  Stepped as N wall.                  4.2m high.  <u>S traverse</u>: Stock brick wall to N side, 1100 high from base of channel, being the remains of 53A. Clay pipe weepholes at base of wall into drain.                  'S' shaped block retaining wall to W side.                  Sloping tops.  <b>Fittings</b>                  Pipe/conduit attached to W blast wall.</p>
Condition:	Fair.
Stability:	Fair.
Health and Safety:	The area between the walls is lowered and uneven.
Record Information:	



# Waltham Abbey Royal Gunpowder Mills

## STRUCTURE SUMMARY SHEET

Structure No:	S30	Date:	October 1998
Structure Name:	Fuse Powder Magazine & Tetryl Store	Rev:	
Structure Type:	Building		
Structure Date/Status:	1940?/SAM, in SSSI		
Grid Reference:	TL 37659 01925		

Preservation Strategy:	Conserve.
Construction:	<p><b>Externally</b>            Rectangular chamber surrounded by earth bank on 3 sides: 28m x 12m x c3.4m high.            NE, NW, SW walls: concrete block.            SE wall: English bond stocks.            NW wall: stepped in section (1840-1380mm).            Gap in middle for entrance.            SE wall; 4 no CI pipes through. 1 no. to NE wall.            Concrete floor with building slab, c 11 x 8m extending through NW wall to canal.            Bolts for timber superstructure.</p> <p><b>Fittings</b>            2 king post and braced trusses on floor.            Lights.            Electrics.            Standpipe at entrance.            Stone plaque on bank side of SE wall.</p>
Condition:	Fair.
Stability:	Fair.
Health and Safety:	The building is adjacent to dry canal areas
Record Information:	

# Waltham Abbey Royal Gunpowder Mills

## STRUCTURE SUMMARY SHEET

Structure No: S31  
 Structure Name: Demolished gunpowder store  
 Structure Type: Building  
 Structure Date/Status: 1879/SAM, in SSSI  
 Grid Reference: TL 37600 01844

Date: November 1998  
 Rev:

Preservation Strategy:	Conserve.
Construction:	<p><b>Externally</b>                  Rectangular brick building of three parallel vaults.                  C-shaped blast wall to N and earth bank to N and E side.</p> <p><b>South Elevation</b>                  Stock brick with 3 semi-circular red rubber arches; central one to 'alley';                  outer 2 to rooms.                  Half height brick infill to room openings with full width stone sills and                  openings below.                  Red corbelled and dentilled parapet.                  Central stone plaque: "No 4 Press House 1879".                  Iron stanchion fixed to front of E arch.</p> <p><b>North Elevation</b>                  Alley walls project through wall.                  Slate pitched roof over projection.                  Arched duct to E of doorway.                  Scar of lean-to and pipes through, indicate former Press House.</p> <p><b>Interior</b>                  Doorways from alley to each room.                  Steel lintols.                  Walls plastered.                  Vaults apparently concrete with flue through in each room, in centre.                  Pipe through N wall of each room.                  Asphalted floors.</p> <p><b>Fittings</b>                  Various iron rods and hooks.                  Porcelain insulators.                  Klaxon.                  Contraband box.                  Boot scraper.</p>
Condition:	Good.
Stability:	Good.
Health and Safety:	

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Record Information:

None.

# Waltham Abbey Royal Gunpowder Mills

## STRUCTURE SUMMARY SHEET

Structure No: S34  
 Structure Name: Mixing House & Control Room  
 Structure Type: Building  
 Structure Date/Status: 1940/SAM, in SSSI  
 Grid Reference: TL 37623 02247

Date: March 1999  
 Rev: A

Preservation Strategy:	Conserve.
Construction:	<p><b>Externally</b>                  Rectangular with N offshoot.                  Timber framed walls, clad in asbestos sheets.                  Painted timber windows, doors and porch.                  Internal partitions ditto but some use of hardboard.                  Concrete floor; painted.                  Sump for WC.                  Roof - felt on timber boards.                  Original stock brick traverse to S approx 9m x 5.2m x 5.3m high; battered.                  CI pipe through at low level.                  Block offshoot to E, 1.85m high retaining E bank.</p> <p><b>Fittings</b>                  Miscellaneous electric switchgear, heaters, batteries, etc.                  8" diameter cylindrical fluorescent diffusers.                  Sink and heater.</p>
Condition:	Fair.
Stability:	Fair.
Health and Safety:	There are various canals and Newton's pool close by although not immediately adjacent to it. Cladding to walls is asbestos sheets. The retaining wall to the south has partially collapsed and the remaining length is leaning – public access to structure to be prohibited.
Record Information:	

# Waltham Abbey Royal Gunpowder Mills

## STRUCTURE SUMMARY SHEET

Structure No: S38  
Structure Name: Brick Bunker  
Structure Type: Building  
Structure Date/Status: 1940/SAM, in SSSI  
Grid Reference: TL 37627 02269

Date: October 1998  
Rev:

Preservation Strategy:	Conserve.
Construction:	<b>Externally</b> Rectangular 3.1m x 2.07m x 2.2m high. 1½ bricks thick fletton brick walls. Window opening to W side. Splayed jambs. Timber door (removed) to E side. Vent hole at high level. Concrete floor. 200 max concrete slab roof; tapers to W side. Painted internally and externally. Yellow with black diagonal stripes to outside. <b>Fittings</b> Light. Switches.
Condition:	Fair.
Stability:	Good.
Health and Safety:	The building is built on a split level.
Record Information:	

# Waltham Abbey Royal Gunpowder Mills

## STRUCTURE SUMMARY SHEET

Structure No: S46  
Structure Name: Tetryl Store  
Structure Type: Building  
Structure Date/Status: 1940-45/SAM, in SSSI  
Grid Reference: TL 37810 01708

Date: October 1998  
Rev:

Preservation Strategy:	Conserve.
Construction:	<p><b>Externally</b> Rectangular building 7.1m x 4.8m x 3.4m (height at gable). Walls part fletton brick with concrete kerb, part timber framed covered with asbestos cement sheet. Large opening with timber frame in W elevation (doors missing), single boarded door to E side. Floor concrete divided into 2 sections by shoe board. Asphalt covering to S section. Roof pitched corrugated asbestos on purlins on 2 scissor trusses.</p> <p><b>Internally</b> Brickwork painted.</p> <p><b>Fittings</b> High level metal vents and low level clay pipes on S wall. Timber first aid box with canvas cover fixed to N wall.</p>
Condition:	Good.
Stability:	Good.
Health and Safety:	Asbestos cement roof sheeting and wall sheeting to rear wall.
Record Information:	

# Waltham Abbey Royal Gunpowder Mills

## STRUCTURE SUMMARY SHEET

Structure No: S47  
Structure Name: Tetryl Store  
Structure Type: Building  
Structure Date/Status: 1940-45/SAM, in SSSI  
Grid Reference: TL 37820 01710

Date: October 1998  
Rev:

Preservation Strategy:	Conserve.
Construction:	<b>Externally</b> Generally as S46. <b>Fittings</b> High level metal vents and low level clay pipes on S wall. Timber first aid box with canvas cover fixed to N wall.
Condition:	Good.
Stability:	Good.
Health and Safety:	Asbestos cement roof panels and wall panels to rear elevation.
Record Information:	

# Waltham Abbey Royal Gunpowder Mills

## STRUCTURE SUMMARY SHEET

Structure No: S47/1  
Structure Name: Blast Wall S47/S48  
Structure Type: Blast Wall  
Structure Date/Status: ?/SAM, in SSSI  
Grid Reference: TL 37826 01711

Date: November 1998  
Rev:

Preservation Strategy:	Conserve.
Construction:	<b>Externally</b> Concrete block wall 4.7m x 0.69m x 3.4m high. <b>Fittings</b> None.
Condition:	Good.
Stability:	Poor: The wall is leaning by approximately 450mm.
Health and Safety:	Pedestrian access in front of wall to be prevented
Record Information:	



# Waltham Abbey Royal Gunpowder Mills

## STRUCTURE SUMMARY SHEET

Structure No: S48  
Structure Name: Tetryl Store  
Structure Type: Building  
Structure Date/Status: 1940-45/SAM, in SSSI  
Grid Reference: TL 37833 01713

Date: October 1998  
Rev:

Preservation Strategy:	Conserve.
Construction:	<b>Externally</b> Generally as S46. <b>Fittings</b> High level metal vents and low level clay pipes on S wall.
Condition:	Good.
Stability:	Good.
Health and Safety:	Asbestos cement sheets to roof and rear wall panels.
Record Information:	

# Waltham Abbey Royal Gunpowder Mills

## STRUCTURE SUMMARY SHEET

Structure No: S49  
Structure Name: Tetryl Store  
Structure Type: Building  
Structure Date/Status: 1940-45/SAM, in SSSI  
Grid Reference: TL 37845 01715

Date: October 1998  
Rev:

Preservation Strategy:	Conserve.
Construction:	<b>Externally</b> Generally as S46. Remains of large horizontally boarded door on cast iron strap hinges to opening in W elevation. N elevation 2 metal framed windows. <b>Fittings</b> Blackboard on N wall. First aid box, timber with canvas flap. Light fittings.
Condition:	Fair.
Stability:	Good.
Health and Safety:	Asbestos cement roof sheets and wall sheet to rear elevation.
Record Information:	

# Waltham Abbey Royal Gunpowder Mills

## STRUCTURE SUMMARY SHEET

Structure No: S90  
 Structure Name: Firing Point  
 Structure Type: Building  
 Structure Date/Status: 1883-1905?/SAM, in SSSI  
 Grid Reference: TL 37670 01927

Date: October 1998  
 Rev:

Preservation Strategy:	Conserve.
Construction:	<p><b>Externally</b>                      Oval structure 16.15m x 11.3m x wall height of 5.85m.                      Walls formed of two stock brick leaves in English bond which join approx 1.8m above the ground to make 850mm thick solid wall.                      Outer leaf batters inward from plinth to corbelled top.                      Inner leaf springs to form barrel vault.                      Concrete infill between leaves of wall.                      Central brick flue to vault.                      Blocked doorway to N end.</p> <p><b>Roof</b>                      Brick vault originally covered with slate.</p> <p><b>Floor</b>                      Stone flags/paviors.</p> <p><b>Fittings</b>                      5mm steel plate linings to parts of walls and to concrete 'benches' on SW and NE walls.                      Loose armoured plates on floor.                      At the south end the wall is missing and it is possible to see the construction. The lower section of wall is 870mm wide up to a plinth. Inside there is 100mm mass concrete lining. Above the plinth section there is a 900mm thick brick wall up to 1.9m above floor. From there on there is a 229mm thick arched brick roof. The springing point is inset 229mm from the face of the mass concrete. Outer skin of brick continues up 1.5 bricks thick with a slow batter back. Between the two leaves of brick there is mass concrete in-fill.</p>
Condition:	Fair.
Stability:	Fair
Health and Safety:	Poor. Areas of loose structure to building.

3/WALTHABB/SUMMARY/S90

Record Information:

**STRUCTURE SUMMARY SHEET**

Structure No: ARS1  
 Structure Name: Air Raid Shelter  
 Structure Type: Building  
 Structure Date/Status: 1940/SAM, in SSSI  
 Grid Reference: TL 37491 02363

Date: October 1998  
 Rev:

Preservation Strategy:	Conserve.
Construction:	<p><b>Externally</b>                  Single storey rectangular concrete building; 9.21 metres x 5.16 metres x 2.55 metres high (350 mm thick walls).                  229mm thick concrete floor and roof, walls have high level ventilation slits. 2 entrances from W, at either end of building, each marked with a painted letter A.                  Rear of each entrance lobby: small cubicle off which is main central room. Exterior retains traces of wavy camouflage paint.                  Rainwater downpipe to rear.</p> <p><b>Fittings</b>                  Metal elsan bucket in each cubicle.                  Wooden benches running the length of the central room plus another row back to back running down the middle.                  Electric lights                  Heating pipes under the benches.</p>
Condition:	Fair. Evidence of previous facial repairs.
Stability:	Good.
Health and Safety:	
Record Information:	

**Waltham Abbey Royal Gunpowder Mills**

**STRUCTURE SUMMARY SHEET**

Structure No: ARS2  
 Structure Name: Air Raid Shelter 2  
 Structure Type: Building  
 Structure Date/Status: circa 1940/SAM, In SSSI  
 Grid Reference: TL 37470 01885

Date: October 1998  
 Rev:

Preservation Strategy:	Conserve.
Construction:	<p><b>Externally</b>                  Similar to ARS 1. Rectangular single storey concrete building: 2.9 metres x 5.1 metres x 2.55 metres high (walls 350 mm thick). 2 entrances from W side on either end of building.                  To the rear of each entrance lobby is a small cubicle off which there is a main central room.                  Concrete roof plus slab.                  Concrete rainwater pipe and hopper to rear (NE).                  Ventilation slits at junction between wall and roof.</p> <p><b>Fittings</b>                  Electric lights.                  Wooden benches running lengthways down the sides of the room, another pair running back to back down the centre.                  Heating pipes running beneath the benches.                  Metal elsan bucked (situated in end of each side cubicle).</p>
Condition:	Good.
Stability:	Good.
Health and Safety:	There is a well to the NE of the building.
Record Information:	

# Waltham Abbey Royal Gunpowder Mills

## STRUCTURE SUMMARY SHEET

Structure No: R135  
Structure Name: Sluice  
Structure Type:  
Structure Date/Status: ?/SAM  
Grid Reference: TL 37650 00994

Date: November 1998  
Rev:

Preservation Strategy:	
Construction:	<b>Externally</b> Series of 5 substantial English bond brick walls of varying thicknesses, lengths and brick types, forming 4 chambers approx 2m deep. Stepped copings, variously brick on edge, Portland stone and York stone. Eastern 2 walls have massive York stone pads set in wall tops. W (retaining) wall tied into bank with steel rods and plates. Each chamber has wooden stop boards in a diagonal slot to N end. <b>Fittings</b> None.
Condition:	Poor
Stability:	Poor
Health and Safety:	
Record Information:	

**Waltham Abbey Royal Gunpowder Mills**

**STRUCTURE SUMMARY SHEET**

Structure No: R216  
 Structure Name: Blast Wall opposite 46A  
 Structure Type: Blast Wall  
 Structure Date/Status: c1940?/SAM, in SSSI  
 Grid Reference: TL 376733 02010

Date: November 1998  
 Rev:

Preservation Strategy:	Conserve.
Construction:	<p><b>Externally</b>                  Stepped concrete block blast wall (4 sided) with earth bank behind on island in canal, situated opposite and screening entrance to mixing house 46A; 29.475m long x 3.9m high.</p> <p><b>Fittings</b>                  Timber plank fixed in central position on NW face (opposite 46a).</p>
Condition:	Fair.
Stability:	Good.
Health and Safety:	
Record Information:	



STRUCTURE SUMMARY SHEET

Structure No: R222  
 Structure Name: Lock  
 Structure Type: Lock  
 Structure Date/Status: 1896-1897/SAM  
 Grid Reference: TL 37568 01234

Date: January 1999  
 Rev:

Preservation Strategy:	Conserve
Construction:	<p>Rectangular chamber, with blue engineering brick, walls, stepped outward in plan at gate positions, N and S of the chamber, the E wall splaying at its N end and the E and W walls at the S end. The walls at the south end are of concrete construction.</p> <p>Before their termination, the S walls step back in plan thereby creating a recess for each swing gate. 'Stable' type bull nose copings, 450 x 145 x 152 high, to top of walls.</p> <p>At the N step, a pair of timber gates is fixed. The hinged stile sits in a cast iron pivot shoe at its base and extends upwards as a 230 diameter timber post, held in a cast iron hoop fixed to the brick wall. The gates are braced with iron angles.</p> <p>N of N gates, each wall is grooved for a wheel, thread and paddle device, The south wheel is marked "Fred'k Bird &amp; Co, 11 Gt Castle Street, Regent Street, London". S of S wall step, an identical pair of paddles, pair of gates and pair of grooves for stop boards.</p> <p>N of N gates grooves for stop boards. To each chamber wall, 3 grooves for timber rubbing posts, 1 for cast iron ladder and 1 for stop boards just N of S gates.</p> <p>Iron eye and rope to one S gate (rope rotted away).</p> <p>A stone plaque in each wall reads "1896-7".</p> <p>Lock floor steps down, S of N gates, beyond which 2 inlet pipes are just visible (others not seen).</p> <p>Pair mooring eyes set into wall tops at gate positions. 4 canon barrel mooring posts. Brick pavior pavement at each gate position. Overall dimensions approximately 23.5m long x 4.3m wide.</p>
Condition:	<p>Chamber – good</p> <p>Lock gates – poor</p>
Stability:	<p>Chamber – good</p> <p>Lock gates – poor</p>
Health and Safety:	
Record Information:	

# Waltham Abbey Royal Gunpowder Mills

## STRUCTURE SUMMARY SHEET

Structure No: R225  
 Structure Name: Lock  
 Structure Type: Lock  
 Structure Date/Status: 1878/SAM, in SSSI  
 Grid Reference: TL 37630 01475

Date: January 1999  
 Rev:

Preservation Strategy:	Conserve
Construction:	<p>Rectangular blue engineering brick chamber, 9.4m x 3.8m with side walls continuing N and S, stepping outwards in plan at each end of the chamber and then splaying at their extremities.</p> <p>Timber double gates, each end of central chamber, held on massive cast iron pivot hinges.</p> <p>Canal floor steps upwards at N gate (with triangular concrete slab edged with timber – timber rotten) and downwards at S gate.</p> <p>Blue brick walls on stock brick cores; 355 x 152 bullnose copings impressed "Joseph Hamblet, West Bromwich" plus stone copings to wall ends.</p> <p>3 rubbing posts to each long wall of chamber; Grooves for stop boards to N of N gates, and S of S gates.</p> <p>400 diameter salt glazed pipes at low level to let water in at N end and out at S end.</p> <p>Granite blocks set in wall tops at each corner of chamber, the NW one incised 'IN' and S ones 'OUT'.</p> <p>Also set in granite, 2 No iron wheel, thread and paddle devices for controlling water entry and discharge.</p> <p>Wooden mooring post to NW end of lock. Telephone poles still exist to E side of lock.</p> <p>Dimensions: Max length 21m. Max depth 2.5m.</p> <p>N gates 1.5m high, S gates approximately 2.5m above water level</p> <p>High level waterways system water level was approximately 1.8m above current water level.</p>
Condition:	<p>Chamber – good</p> <p>Lock gates – poor</p>
Stability:	<p>Chamber – good</p> <p>Lock gates – poor</p>
Health and Safety:	
Record Information:	

### STRUCTURE SUMMARY SHEET

Structure No: R259  
Structure Name: Air Raid Shelter  
Structure Type: Building  
Structure Date/Status: 1940/SAM, in SSSI  
Grid Reference: TL 37570 02476

Date: November 1998  
Rev:

Preservation Strategy:	Manage as ruin.
Construction:	Small square fletton brick building in English bond (1.5 brick thick walls). Concrete slab floor and roof. Window blocked on east side with concrete blocks. Entrance in west.
Condition:	Good.
Stability:	Good.
Health and Safety:	
Record Information:	

STRUCTURE SUMMARY SHEET

Structure No: X3  
Structure Name: Sand Bagged Bunker  
Structure Type: Bunker  
Structure Date/Status: 1941/Conservation Area  
Grid Reference: TL 37935 01977

Date: October 1998  
Rev:

Preservation Strategy:	Conserve.
Construction:	<b>Externally</b> Rectangular sand bagged enclosure with battered walls, 8.8m x 6.4m x 2.1m high. Walls are concrete filled sand bags in layers, entry at NW corner. Interior is sand filled. <b>Fittings</b> None.
Condition:	Good.
Stability:	Good.
Health and Safety:	
Record Information:	

# Waltham Abbey Royal Gunpowder Mills

## STRUCTURE SUMMARY SHEET

Structure No: X24  
Structure Name: Fan House  
Structure Type: Building  
Structure Date/Status: 1940-45/SAM, in SSSI  
Grid Reference: TL 37816 01702

Date: October 1998  
Rev:

Preservation Strategy:	Conserve.
Construction:	<p><b>Externally</b> Small single storey brick building: 3.28m x 2.67m x 2.47m high (100mm thick walls). Piers at each corner and entrance. <b>South Entrance</b> - Concrete lintel over timber door frame and vertical boarded door. W and E low level openings 300mm x 350mm with iron lintels. Circular hole in W elevation. Dpc one brick up from concrete slab floor. Large timber slated vent with timber sill and concrete lintel to N elevation. Timber roof structure (rafters, purlins and wall plates) supporting mono pitch asbestos corrugated sheeting. Two concrete machine bases case into floor with iron vertical mounting both in each corner. Remains of CI RWP.</p> <p><b>Fittings</b> Remains of circular pipe internally. Lightning conductor tape coming out of West low level opening.</p>
Condition:	Fair.
Stability:	Good.
Health and Safety:	Asbestos cement roof sheeting.
Record Information:	

STRUCTURE SUMMARY SHEET

Structure No: X25  
 Structure Name: Fan House  
 Structure Type: Building  
 Structure Date/Status: 1940-45/SAM, in SSSI  
 Grid Reference: TL 37840 01716

Date: October 1998  
 Rev:

Preservation Strategy:	Conserve.
Construction:	<p><b>Externally</b>                  Small single storey brick building: 3.28m x 2.67m x 2.47m high (100mm thick walls).                  Piers at each corner and entrance.  <b>South entrance</b> - concrete lintel over timber door frame and door.                  W and E low level openings 300mm x 350mm with iron lintels.                  Dpc one brick up from concrete slab floor.                  Large timber slated vent with timber sill and concrete lintel to N elevation.                  Timber roof structure (rafters, purlins and wall plates) supporting mono pitch asbestos corrugated sheeting.</p> <p><b>Internally</b>                  Two concrete machine bases cast into internal floor with iron vertical mounting bolts in each corner.                  Remains of CI RWP to NE corner.</p> <p><b>Fittings</b>                  2 light fittings.                  Metal box on internal W wall.                  Fuses and electrical box on internal S wall.                  Lightning conductor tape coming out of West low level opening.</p>
Condition:	Fair.
Stability:	Good.
Health and Safety:	Asbestos cement roof sheets.
Record Information:	

# Waltham Abbey Royal Gunpowder Mills

## STRUCTURE SUMMARY SHEET

Structure No: U2  
 Structure Name: Fan House  
 Structure Type: Building  
 Structure Date/Status: 1941/SAM, In SSSI  
 Grid Reference: TL 37669 02204

Date: October 1998  
 Rev:

Preservation Strategy:	Conserve.
Construction:	<p><b>Externally</b>                  Square brick building 2.89 x 2.89 x 2.4m high.                  Fletton brick walls.                  Louvred opening to N wall with remains of hinged shutter.                  Timber door to E side wall.                  Signs of paint to brickwork.                  Low level opening to S side wall 550 x 510 mm.                  Concrete lintels to openings.                  Concrete floor with plant base.                  Concrete flat roof c 175 thick.</p> <p><b>Fittings</b>                  Various wall fittings including steel box to N side wall.                  Desk, box of oddments, steel containers on floor.</p>
Condition:	Good.
Stability:	Good.
Health and Safety:	Undulating ground surrounding building. Retaining wall provides 1m sharp drop from roadway to base of building.
Record Information:	

# Waltham Abbey Royal Gunpowder Mills

## STRUCTURE SUMMARY SHEET

Structure No: U5  
 Structure Name: Small Brick Shed  
 Structure Type: Building  
 Structure Date/Status: circa 1940/SAM, In SSSI  
 Grid Reference: TL 37466 01945

Date: October 1998  
 Rev:

Preservation Strategy:	Conserve.
Construction:	<p><b>Externally</b>                  Small gabled single storey Fletton brick shed - 4.2m x 3.14m x 3.6m height to gable (230mm wide walls).                  Built on concrete slab/plinth approx 500mm high above ground.                  Corrugated asbestos roof covering supported on timber purlins.                  Numerous circular vent holes at high level and 2 at low level to W side elevation.                  Shute in floor (NW) which exits to the outside through the concrete plinth.                  2 timber casement windows on N and E side elevations with concrete lintels and cills (glass replaced by board).                  Double doors to S side elevation, with vertical boarding and concrete lintel.                  Screeded floor and skirting.                  Fair face brickwork walls.                  Damp proof course - 2 bricks up from plinth.</p> <p><b>Fittings</b>                  Iron fixing in W elevation.                  Electricity supply.                  2 metal sheets placed centrally on floor.</p>
Condition:	Good.
Stability:	Good.
Health and Safety:	
Record Information:	



# Waltham Abbey Royal Gunpowder Mills

## STRUCTURE SUMMARY SHEET

Structure No: U7  
Structure Name: Storage Hut  
Structure Type: Building  
Structure Date/Status: ?/in SSSI, in Conservation Area  
Grid Reference: TL 37447 01837

Date: November 1998  
Rev:

Preservation Strategy:	Conserve.
Construction:	<p><b>Externally</b> Rectangular brick building 4.22 x 2.29 x 2.43m high. 225 fletton brick walls. Cross wall divides building into 2 toilet blocks with a timber door into each (S &amp; E elevations). A small steel window to W side plus vent pipes. N side wall blank. Air vents to E side wall. 2 windows to S side wall. Concrete lintels over all openings. Concrete sill bricks. Concrete floors. Corrugated asbestos sheet roof on timber structure. Monopitch. Asbestos gutter. RWP missing. Pipe to N side wall externally. Broken WHB. No WCs. Wall table to N side room.</p> <p><b>Fittings</b> None.</p>
Condition:	Fair.
Stability:	Good.
Health and Safety:	
Record Information:	

STRUCTURE SUMMARY SHEET

Structure No: E2  
 Structure Name: Nitration Plant  
 Structure Type: Building  
 Structure Date/Status: 1895-96/SAM, in SSSI  
 Grid Reference: TL 37514 02172

Date: October 1998  
 Rev:

Preservation Strategy:	Conserve.
Construction:	<p><b>Externally</b>                  Circular brick chamber approximately 9.5 metres diameter and 5.6 metres high; surrounded by earth bank; enter from S side via a curved concrete path, timber gate and curved vaulted brickwork tunnel.                  Path flanked by massive concrete walls 400mm wide at base with sloping tops.                  Tunnel ends in timber platform.                  Scar on revetment wall indicates the platform to be floor of pitched roof porch to now removed building.                  Concrete floor slab with raised oval plinth in centre into which is sunk a 1200 mm deep pit.                  Timber sill to plinth.                  Plant bases in pit floor (former drowning tank - RCHME).                  Arched opening and 1350 mm high tunnel (about 1800 mm above floor level) through E wall and ending in concrete retaining walls through bank.                  Concrete floor and wall bolts for N.G. gutters.                  Bricked-in arch to W side of chamber.</p> <p><b>Fittings</b>                  Chamber walls contain remains of steel stairs/platform; joist sockets; stoneware ducts; numerous pipes.</p>
Condition:	Poor.
Stability:	Poor.
Health and Safety:	The external retaining walls are collapsing and the structure is therefore dangerous. Public access to be prohibited.
Record Information:	

# Waltham Abbey Royal Gunpowder Mills

## STRUCTURE SUMMARY SHEET

Structure No: E9/2  
Structure Name: Refrigeration House  
Structure Type: Building  
Structure Date/Status: 1969/SAM in SSSI  
Grid Reference: TL 37412 02124

Date: February 1999  
Rev:

Preservation Strategy:	Conserve
Construction:	<p><b>Externally</b> Rectangular building 6.6 metres x 3.5 metres x 2.6 metres high. Stretcher bond brick outer skin and painted block inner skin. Timber window to W side. Double door to N side under soldier lintol. Timber skirting and coving. Felt on timber joist roof with timber fascias and plastic gutter; styrofoam boards fixed between joists; plasterboard ceiling. Concrete floor.</p> <p><b>Fittings</b> Brine pipes through E wall. Switch gear.</p>
Condition:	Fair.
Stability:	Good.
Health and Safety:	
Record Information:	

STRUCTURE SUMMARY SHEET

Structure No: E10  
 Structure Name: Nitrate Soda Store  
 Structure Type: Building  
 Structure Date/Status: 1915-16/in SSSI: in Conservation Area  
 Grid Reference: TL 37433 02107

Date: October 1998  
 Rev:

Preservation Strategy:	Conserve.
Construction:	<p><b>Externally</b>                  Rectangular 20.88 metres x 13.6 metres x 2.6 metres to eaves. Clinker concrete walls; tapering; on engineering brick plinth.                  Two boarded gables to each short wall and a set of double timber doors. Louvres to each gable.                  Concrete floors with rails running between doors (18 inch gauge).                  Inverted "W" roof. Felt on timber boards on exposed rafters.                  Both ridge beams and valley supported by rows of timber columns at 2200 mm centres.                  Boxed eaves and barge boards.                  Cast iron gutters and downpipes.</p> <p><b>Fittings</b>                  Heating panels and associated piping.</p>
Condition:	Roof – Poor. Structure – Good.
Stability:	Fair. Note: roof structure has collapsed.
Health and Safety:	Surrounding area adjacent to path is lower.
Record Information:	

STRUCTURE SUMMARY SHEET

Structure No: E12  
 Structure Name: Shift House  
 Structure Type: Building  
 Structure Date/Status: 1960-1985?/SAM, In SSSI  
 Grid Reference: TL 37470 02058

Date: October 1998  
 Rev:

Preservation Strategy:	Conserve.
Construction:	<p><b>Externally</b>                  Rectangular brick building with projection to SW side 10.4 m x 7.3 m x 2.8 m high.  <b>Walls:</b> flettons 1 brick thick with 2 flush doors and 1 metal window to S elevation.                  2 metal windows to E side and 1 metal window to W side.                  Concrete lintels and sills.                  N elevation wall blocked where N part of building demolished (slab remains 12.2 m x 7.2 m).                  Reinforced concrete slab roof 150 mm thick on 2 steel beams.                  Roof covered with felt.                  2 concrete lantern lights also felted.  <b>Floor:</b> lino on concrete.  <b>Internally</b>                  Locker room and shower and urinal to E side.                  Large room to centre, porch and small room to SW projection; originally plastered, but in poor condition.  <b>Fittings</b>                  Remains of shower and urinal.</p>
Condition:	Fair.
Stability:	Fair.
Health and Safety:	<p><b>Internally</b>                  Rotted sections of timber flooring. Risk of collapse.  <b>Externally</b>                  Surrounding land uneven.</p>
Record Information:	

STRUCTURE SUMMARY SHEET

Structure No: E13  
 Structure Name: Sewer Pump House  
 Structure Type: Building  
 Structure Date/Status: 1962-1987/SAM, In SSSI  
 Grid Reference: TL 37485 02030

Date: October 1998  
 Rev:

Preservation Strategy:	Conserve.
Construction:	<p><b>Externally</b>                  Brick rectangular building 1.73m x 2.37m x 2.3m high with brick filtering tank to S 1.7m x 3.3m x 2m high.                  Building walls half brick flettons with door to W side.                  Concrete slab floor.                  Roof felt on woodwool deck.                  Filter tank walls are engineering brick with steel ladders to top.</p> <p><b>Fittings</b>                  Brownson pump and associated equipment.                  Filtering equipment.</p>
Condition:	Good.
Stability:	Good.
Health and Safety:	Uneven ground to building surroundings.
Record Information:	

STRUCTURE SUMMARY SHEET

Structure No: E14  
 Structure Name: Mixing House/Nitric Ester Store  
 Structure Type: Building  
 Structure Date/Status: Post 1940 - 1964?/SAM, in SSSI  
 Grid Reference: TL 37522 01946

Date: November 1998  
 Rev:

Preservation Strategy:	Manage as ruin.
Construction:	<p><b>Externally</b>                  Rectangular single storey, gabled building with porch surrounded on 3 sides by earth traverse 10.35 x 6.5 metres.                  Green painted asbestos sheet walls on timber studio.                  Timber windows; 2 each to long sides, 1 each to gables; protected with weldmesh.                  Removable wall panels.                  Corrugated asbestos roof on timber purlins and trusses.                  Concrete block porch with 2 no. windows, timber doors and roof, all collapsed.</p> <p><b>Internally</b>                  Hardboard ceilings and internal wall linings.                  Concrete floor with square wooden inserts.</p> <p><b>Fittings</b>                  Benching to porch.                  Various conduits and ducts; heaters; gauge on SW wall.</p>
Condition:	Fair.
Stability:	Building – Poor Walls - Fair
Health and Safety:	
Record Information:	

STRUCTURE SUMMARY SHEET

Structure No: E16  
 Structure Name: Tool Shed  
 Structure Type: Building  
 Structure Date/Status: circa 1960/SAM, in SSSI  
 Grid Reference: TL 37592 02088

Date: November 1998  
 Rev:

Preservation Strategy:	Manage as ruin.
Construction:	<p><b>Externally</b>                  Square brick building 4.7 x 4.7 m.                  Stock brick walls 1 brick thick, max 500 mm high with holding down bolts.                  Blue plinth bricks.                  Slate dpc.                  Concrete floor.                  No roof remains.                  Cast iron air bricks; 2 no. N/S cross wall (?) footings (or possibly to support timber floor joists).</p> <p><b>Fittings</b>                  Pipe rises through floor on W side, to a height of 3 m.</p>
Condition:	Poor.
Stability:	Fair.
Health and Safety:	
Record Information:	



# Waltham Abbey Royal Gunpowder Mills

## STRUCTURE SUMMARY SHEET

Structure No: BR1  
Structure Name: Bridge 1  
Structure Type: Road Bridge  
Structure Date/Status: 1832/SAM  
Grid Reference: TL 37725 00877

Date: November 1998  
Rev:

Preservation Strategy:	Conserve
Construction:	<p>Six cast iron arched ribs span between brick abutments, the date '1832' being part of the western casting. Concrete deck, cast iron standards and rails.</p> <p><b>Fittings</b> 2 No. 4" pipes attached</p>
Condition:	Fair
Stability:	Good, although only suitable to carry vehicles with axle load of 1.9 tonnes.
Health and Safety:	
Record Information:	

# Waltham Abbey Royal Gunpowder Mills

## STRUCTURE SUMMARY SHEET

Structure No: BR2  
Structure Name: Bridge 2  
Structure Type: Road Bridge  
Structure Date/Status: Replaced 1994 / Conservation Area  
Grid Reference: TL 37735 01000

Date: November 1998  
Rev:

Preservation Strategy:	Conserve
Construction:	Mabey Compact 100 proprietary bailey bridging system with additional footwalk attached to E elevation.  Supported on mass concrete abutments retained with steel sheet piling.  Painted yellow
Condition:	Good
Stability:	Good
Health and Safety:	
Record Information:	

# Waltham Abbey Royal Gunpowder Mills

## STRUCTURE SUMMARY SHEET

Structure No: BR3  
Structure Name: Bridge 3  
Structure Type: Footbridge  
Structure Date/Status: Late 1960's / Conservation Area  
Grid Reference: TL 37690 00992

Date: November 1998  
Rev:

Preservation Strategy:	Conserve
Construction:	Two double channel beams with angle iron bracings supporting timber decking, with later asphalted plywood deck added on top.  Tubular steel handrails to edges of deck.  Supported on brick abutments with concrete bearing shelves.  Painted yellow.
Condition:	Fair
Stability:	Good
Health and Safety:	
Record Information:	

# Waltham Abbey Royal Gunpowder Mills

## STRUCTURE SUMMARY SHEET

Structure No: BR6  
Structure Name: Bridge 6  
Structure Type: Road Bridge  
Structure Date/Status: 1955 / Conservation Area  
Grid Reference: TL 37675 01395

Date: November 1998  
Rev:

Preservation Strategy:	Conserve
Construction:	Reinforced concrete beam and slab structure with asphalt wearing course and tubular steel parapets fixed to concrete upstands.  Downstand beams supported on rocker bearings on concrete abutments.
Condition:	Good
Stability:	Good
Health and Safety:	
Record Information:	

# Waltham Abbey Royal Gunpowder Mills

## STRUCTURE SUMMARY SHEET

Structure No: BR7  
Structure Name: Bridge 7  
Structure Type: Footbridge  
Structure Date/Status: 1960s/SAM  
Grid Reference: TL 37545 01345

Date: November 1998  
Rev:

Preservation Strategy:	Conserve
Construction:	Two painted steel beams with timber plank deck supported by concrete abutments. Tubular handrail with standards bolted to steel beams. Overall dimensions approximately 6.8m long x 1.3 wide.
Condition:	Fair
Stability:	Good
Health and Safety:	
Record Information:	

# Waltham Abbey Royal Gunpowder Mills

## STRUCTURE SUMMARY SHEET

Structure No: BR8  
Structure Name: Bridge 8  
Structure Type: Road Bridge  
Structure Date/Status: Refurbished 1994 / Conservation Area  
Grid Reference: TL 37680 02106

Date: November 1998  
Rev:

Preservation Strategy:	Conserve
Construction:	<p>Three double steel channel beams with composite concrete deck supported by concrete abutments with gabion walls in front.</p> <p>Block paviour wearing course surface and P2-type parapet with mesh infill fixed to edges of concrete slab.</p> <p>Site fence fixed to E elevation.</p>
Condition:	Good
Stability:	Good
Health and Safety:	
Record Information:	

# Waltham Abbey Royal Gunpowder Mills

## STRUCTURE SUMMARY SHEET

Structure No: BR10  
Structure Name: Bridge 10  
Structure Type: Road Bridge  
Structure Date/Status: 1878 - 1879 / SAM, in SSSI  
Grid Reference: TL 37597 01800

Date: March 1999  
Rev: A

Preservation Strategy:	Conserve
Construction:	Brick masonry arch, consisting of four courses thick blue brick arch ring with stone keystone, brick spandrel walls and wingwalls and brick abutments.  Blue brick copings. Asphalt wearing course surface.
Condition:	Good
Stability:	Good
Health and Safety:	
Record Information:	

Waltham Abbey Royal Gunpowder Mills

STRUCTURE SUMMARY SHEET

Structure No: BR11  
Structure Name: Bridge 11  
Structure Type: Road Bridge  
Structure Date/Status: Replaced 1994 / SAM  
Grid Reference: TL 37715 02041

Date: November 1998  
Rev:

Preservation Strategy:	Conserve
Construction:	Mabey Compact 200 proprietary bailey bridging system, supported on brick wall / concrete abutments, with mass concrete and steel sheet pile training walls.
Condition:	Good
Stability:	Good
Health and Safety:	
Record Information:	



# Waltham Abbey Royal Gunpowder Mills

## STRUCTURE SUMMARY SHEET

Structure No: BR12  
Structure Name: Bridge 12  
Structure Type: Road Bridge  
Structure Date/Status: Replaced 1993 / SAM, in SSSI  
Grid Reference: -

Date: November 1998  
Rev:

Preservation Strategy:	Conserve
Construction:	Concrete box culvert bridge at the head of Newton's Pool. Curved stone clad steel sheet pile training walls with in-situ concrete capping beam and P4-type pedestrian parapet fixed to capping. Concrete block pavior surfacing.
Condition:	Good
Stability:	Good
Health and Safety:	
Record Information:	

# Waltham Abbey Royal Gunpowder Mills

## STRUCTURE SUMMARY SHEET

Structure No: BR13  
Structure Name: Bridge 13  
Structure Type: Pipe Culvert  
Structure Date/Status: 1940/SAM, in SSSI  
Grid Reference: TL 37546 01935

Date: November 1998  
Rev:

Preservation Strategy:	Conserve
Construction:	<p>River Lea flows N-S through five concrete pipe culverts onto which concrete canal floor cast.</p> <p>Concrete headwalls with training walls to river banks at each elevation. Remains of steel sheet piles to training walls. S headwall stamped '1940'.</p>
Condition:	Good
Stability:	Good
Health and Safety:	
Record Information:	

# Waltham Abbey Royal Gunpowder Mills

## STRUCTURE SUMMARY SHEET

Structure No: BR14  
Structure Name: Bridge 14  
Structure Type: Aqueduct  
Structure Date/Status: 1878 - 1879 / SAM, in SSSI  
Grid Reference: TL 37565 01800

Date: December 1998  
Rev:

Preservation Strategy:	Conserve
Construction:	<p>Cast iron trough carrying former canal over the Old River Lea.</p> <p>Cast iron side plates are bolted to similar deck, which is supported by brick abutments.</p> <p>Brick masonry wingwalls to ends of aqueduct, with grooves for stop boards.</p> <p>Timber training walls to west elevation of aqueduct</p>
Condition:	Fair
Stability:	Good
Health and Safety:	<p>Bolts projecting from sides of aqueduct</p> <p>Deck surface slippery</p> <p>Unsuitable for pedestrian access</p>
Record Information:	

# Waltham Abbey Royal Gunpowder Mills

## STRUCTURE SUMMARY SHEET

Structure No: BR15  
Structure Name: Bridge 15  
Structure Type: Aqueduct  
Structure Date/Status: 1878 – 1879, 1944? / SAM, in SSSI  
Grid Reference: TL 37584 02131

Date: December 1998  
Rev:

Preservation Strategy:	Conserve
Construction:	<p>Cast iron trough carrying former canal over the Old River Lea.</p> <p>Cast iron side plates are bolted to similar deck, which is supported by brick abutments.</p> <p>Brick masonry wingwalls to ends of aqueduct.</p> <p>Later, brick walls constructed across ends of aqueduct and new deck consisting of four channel sections with timber walkway and tubular steel handrails, spanning between. Two intermediate channel sections span between sides of aqueduct.</p> <p><b>Fittings</b></p> <p>5" diameter water (?) pipe runs across floor of aqueduct.</p>
Condition:	Fair
Stability:	Aqueduct – Good Later deck – Poor
Health and Safety:	
Record Information:	

# Waltham Abbey Royal Gunpowder Mills

## STRUCTURE SUMMARY SHEET

Structure No: BR16  
Structure Name: Bridge 16  
Structure Type: Road Bridge  
Structure Date/Status: 1878-1879/SAM, in SSSI  
Grid Reference: TL 37548 01761

Date: November 1998  
Rev:

Preservation Strategy:	Conserve
Construction:	<p>Brick masonry arch consisting of three courses thick blue brick arch ring with stone keystone, brick spandrel walls and wingwalls and brick abutments.</p> <p>Blue brick copings to tops of walls</p> <p><b>Fittings</b></p> <p>100mm diameter water main runs through bridge.</p>
Condition:	Good
Stability:	Good
Health and Safety:	
Record Information:	

# Waltham Abbey Royal Gunpowder Mills

## STRUCTURE SUMMARY SHEET

Structure No: BR17  
Structure Name: Bridge 17  
Structure Type: Footbridge  
Structure Date/Status: Pre 1947/Conservation Area  
Grid Reference: TL 37676 00931

Date: November 1998  
Rev:

Preservation Strategy:	Conserve
Construction:	<p>Trussed steel angle bridge fixed with rivets, carrying a timber plank deck on timber bearers fixed to steel cross members. At third points a structural T outrigger is braced back to hand rail on each side.</p> <p>Concrete abutment to W and brick to E. Recent steel tubular handrail fixed to steps E side, and steel security fencing surrounding access on W side.</p> <p><b>Fittings</b> 2 pipes fixed to N elevation 2 cables fixed to cable tray fixed to S elevation</p>
Condition:	Good (recently refurbished)
Stability:	Good
Health and Safety:	
Record Information:	

# Waltham Abbey Royal Gunpowder Mills

## STRUCTURE SUMMARY SHEET

Structure No: BR18  
Structure Name: Bridge 18  
Structure Type: Pipe Culvert  
Structure Date/Status: Refurbished 1994/SAM, in SSSI  
Grid Reference: TL 37476 01783

Date: November 1998  
Rev:

Preservation Strategy:	Conserve
Construction:	525mm diameter concrete pipe running beneath site access road, with brick headwalls on concrete foundations, and gabion wing walls at each elevation.  Block pavior surfacing with safety kerbs at road edges.
Condition:	Good
Stability:	Good
Health and Safety:	
Record Information:	

**Waltham Abbey Royal Gunpowder Mills**

**STRUCTURE SUMMARY SHEET**

Structure No: BR19  
 Structure Name: Bridge 19  
 Structure Type: Road Bridge  
 Structure Date/Status: 1878?/SAM, in SSSI  
 Grid Reference: TL 37516 01795

Date: November 1998  
 Rev:

Preservation Strategy:	Conserve
Construction:	<p>Brick arch bridge, widened and substantially rebuilt in concrete. S Abutment consists of two sections, concrete and the original brick to the brick arch.</p> <p>N Abutment constructed of stock brick with concrete capping to concrete slab section of deck.</p> <p>Brick arch has concrete haunching and slab on top, spandrel wall (with stone keystone) and parapet still existing to E elevation. Brick training walls to elevation have vertical steel channels set in them (presumably to act as a sluice gate). Steel channel also still existing in brick abutment at W elevation. Later concrete slab widening to west of brick arch approximately 285mm thick and forms road surface.</p> <p>Remains of timber railing to W side and steel handrail to E.</p> <p><b>Fittings</b>                  2 pipes across, 1 to W elevation, 1 beneath concrete slab adjacent brick arch.</p>
Condition:	Fair
Stability:	Fair
Health and Safety:	
Record Information:	



# Waltham Abbey Royal Gunpowder Mills

## STRUCTURE SUMMARY SHEET

Structure No: BR22  
Structure Name: Bridge 22  
Structure Type: Footbridge  
Structure Date/Status: 1890?/SAM, in SSSI  
Grid Reference: TL 37437 02290

Date: December 1998  
Rev:

Preservation Strategy:	Conserve
Construction:	Angle iron frame with flat bracings, remains of timber deck, steps and stringers. Tree growing out of East abutment recently cut down, but trunk still remains.
Condition:	Very Poor – very badly corroded
Stability:	Very Poor – in danger of collapse at any time
Health and Safety:	Unsuitable for pedestrian access
Record Information:	

# Waltham Abbey Royal Gunpowder Mills

## STRUCTURE SUMMARY SHEET

Structure No: BR26  
Structure Name: Bridge 26  
Structure Type: Footbridge  
Structure Date/Status: 1904?/SAM, in SSSI  
Grid Reference: TL 37602 01884

Date: November 1998  
Rev:

Preservation Strategy:	
Construction:	<p>Angle-iron, trapezium shaped bridge on concrete abutments. Remains of wooden stringers, tread and risers.</p> <p>Railing to W elevation carries iron pipe on hooks.</p> <p>Overall dimensions approximately 8m long x 1.35m wide. Height above canal bed is 2.7m.</p>
Condition:	Poor
Stability:	Fair
Health and Safety:	Unsuitable for pedestrian access
Record Information:	

# Waltham Abbey Royal Gunpowder Mills

## STRUCTURE SUMMARY SHEET

Structure No: BR27  
Structure Name: Bridge 27  
Structure Type: Aqueduct  
Structure Date/Status: 1878/SAM, in SSSI  
Grid Reference: TL 37552 01598

Date: November 1998  
Rev:

Preservation Strategy:	Conserve
Construction:	Brick masonry headwalls and arch ring (which only just visible) remain.
Condition:	Fair
Stability:	Fair
Health and Safety:	
Record Information:	

# Waltham Abbey Royal Gunpowder Mills

## STRUCTURE SUMMARY SHEET

Structure No: BR28  
Structure Name: Bridge 28  
Structure Type: Brick Arch Culvert  
Structure Date/Status: 1806-27/SAM, in SSSI  
Grid Reference: TL 37442 01640

Date: November 1998  
Rev:

Preservation Strategy:	Conserve
Construction:	<p>Stock brick battered headwalls, two brick courses thick, with York stone copings. Arch ring just visible above waterline. Remains of brick cross walls running from headwalls to canal edges and tarmac surfacing along both canal sides still visible.</p> <p>Canal now redundant, but still stagnant water in 'The Drain', which passes underneath canal through the brick arch culvert</p>
Condition:	Fair
Stability:	Good
Health and Safety:	
Record Information:	

# Waltham Abbey Royal Gunpowder Mills

## STRUCTURE SUMMARY SHEET

Structure No: BR29  
Structure Name: Bridge 29  
Structure Type: Footbridge  
Structure Date/Status: 1880/SAM, in SSSI  
Grid Reference: TL 37654 01449

Date: November 1998  
Rev:

Preservation Strategy:	Conserve
Construction:	<p>Angle iron semi-circular arch frame footbridge, with remains of original timber deck and steps.</p> <p>Bridge is set on concrete abutments with York stone copings.</p> <p>Concrete plank retaining walls to West side.</p> <p>Overall dimensions approximately 9.5m long x 1.0m wide.</p>
Condition:	Fair
Stability:	Fair
Health and Safety:	Unsuitable for pedestrian access
Record Information:	

# Waltham Abbey Royal Gunpowder Mills

## STRUCTURE SUMMARY SHEET

Structure No: BR33  
Structure Name: Bridge 33  
Structure Type: Footbridge  
Structure Date/Status: -/SAM, in SSSI  
Grid Reference: TL 37465 01487

Date: November 1998  
Rev:

Preservation Strategy	Manage as ruin
Construction:	Rudimentary structure comprising two parts, first half from E bank consists of concrete pipe culvert with assorted infill material of bricks, concrete lumps, stone copings and earth with timber planks across top. Second half consists of iron rails spanning between pipe culvert and brick wall abutment on W bank. Remains of timber planks fixed to rails to form deck.
Condition:	Poor
Stability:	Poor
Health and Safety:	Unsuitable for pedestrian access
Record Information:	

# Waltham Abbey Royal Gunpowder Mills

## STRUCTURE SUMMARY SHEET

Structure No: BR34  
Structure Name: Bridge 34  
Structure Type: Foot/Pipe Bridge  
Structure Date/Status: 1878 and 1940s?/Conservation Area  
Grid Reference: TL 37800 01095

Date: November 1998  
Rev:

Preservation Strategy:	Conserve
Construction:	All that remains of this structure are U-shaped blue brick abutments with stable type paviers to each side of Middle Stream.
Condition:	Fair
Stability:	Fair – wall to east bank leaning over
Health and Safety:	
Record Information:	

# Waltham Abbey Royal Gunpowder Mills

## STRUCTURE SUMMARY SHEET

Structure No: BR36  
Structure Name: Bridge 36  
Structure Type: Footbridge  
Structure Date/Status: 1890's?/SAM, in SSSI  
Grid Reference: TL 37643 02044

Date: November 1998  
Rev:

Preservation Strategy:	Conserve
Construction:	<p>Angle-iron, trapezium shaped bridge on concrete abutments. Brick retaining wall to W side.</p> <p>No remains of timber decking/steps apart form stringers. Overall dimensions approximately 8.5m long x 1.3m wide. Height above canal bed 3.3m.</p>
Condition:	Poor
Stability:	Fair
Health and Safety:	Unsuitable for pedestrian access
Record Information:	



Waltham Abbey Royal Gunpowder Mills

STRUCTURE SUMMARY SHEET

Structure No: BR38  
Structure Name: Bridge 38  
Structure Type: Pipe Bridge  
Structure Date/Status: 1880s/1900s? / SAM, in SSSI  
Grid Reference: TL 37523 01648

Date: November 1998  
Rev:

Preservation Strategy:	Conserve
Construction:	Two tapering painted T-iron trestle supports, braced and riveted, fixed to concrete abutments, with T-iron beam spanning between trestles.  <b>Fittings</b> Two pipes attached
Condition:	Fair
Stability:	Good
Health and Safety:	
Record Information:	

# Waltham Abbey Royal Gunpowder Mills

## STRUCTURE SUMMARY SHEET

Structure No: BR41  
Structure Name: Bridge 41  
Structure Type: Lifting Footbridge  
Structure Date/Status: Pre 1940/SAM, in SSSI  
Grid Reference: TL 37501 01661

Date: November 1998  
Rev:

Preservation Strategy:	Manage as ruin
Construction:	Only remains of S abutment still exist. It consists of remains of timber retaining wall to canal with landing stage of stone, concrete and asphalt of varying ages, with two iron catch plates and hook still attached and N side, abutment has been replaced with new bank consisting of earth/granite chips.
Condition:	S Abutment – very poor
Stability:	S Abutment – very poor
Health and Safety:	
Record Information:	

# Waltham Abbey Royal Gunpowder Mills

## STRUCTURE SUMMARY SHEET

Structure No: BR43  
Structure Name: Bridge 43  
Structure Type: Services Bridge  
Structure Date/Status: 1940/SAM, in SSSI  
Grid Reference: TL 37600 02150

Date: December 1998  
Rev:

Preservation Strategy:	Conserve
Construction:	Only abutments to each bank remain, consisting of brickwork with 420mm thick concrete capping. Dimensions approximately 940mm x 2150mm x 1900mm high.
Condition:	Good
Stability:	Good
Health and Safety:	
Record Information:	

**Waltham Abbey Royal Gunpowder Mills**

**STRUCTURE SUMMARY SHEET**

Structure No: BR50  
Structure Name: Bridge 50  
Structure Type: Pipe Culvert  
Structure Date/Status: 1850 - 1886/SAM, in SSSI  
Grid Reference: TL 37455 01976

Date: November 1998  
Rev:

Preservation Strategy:	Conserve
Construction:	Concrete pipe running beneath site access road, with granite chip fill to East side. West side heavily overgrown.
Condition:	Fair
Stability:	Good
Health and Safety:	
Record Information:	

# Waltham Abbey Royal Gunpowder Mills

## STRUCTURE SUMMARY SHEET

Structure No: BR51  
Structure Name: Bridge 51  
Structure Type: Pipe Bridge  
Structure Date/Status: 1940?/SAM, in SSSI  
Grid Reference: TL 37665 01976

Date: November 1998  
Rev:

Preservation Strategy:	Conserve
Construction:	Two brick piers with concrete cappings are all that remain. Brick piers have step-irons built-in, and steel channel services support to each capping. (Structure probably similar to BR70)
Condition:	Fair
Stability:	Fair
Health and Safety:	Value chamber adjacent E pier
Record Information:	

# Waltham Abbey Royal Gunpowder Mills

## STRUCTURE SUMMARY SHEET

Structure No: BR52  
Structure Name: Bridge 52  
Structure Type: Pipe Bridge  
Structure Date/Status: -/SAM, in SSSI  
Grid Reference: TL 37434

Date: November 1998  
Rev:

Preservation Strategy:	Conserve
Construction:	Two concrete abutments are all that remain.
Condition:	Fair
Stability:	
Health and Safety:	
Record Information:	

# Waltham Abbey Royal Gunpowder Mills

## STRUCTURE SUMMARY SHEET

Structure No: BR57  
Structure Name: Bridge 57  
Structure Type: Pipe Bridge  
Structure Date/Status: Post 1947/SAM  
Grid Reference: TL 37550 01340

Date: November 1998  
Rev:

Preservation Strategy:	Conserve
Construction:	<p>Two painted steel circular hollow section (CHS) supports carrying four services (three ducts and one electrical). Each support comprises two no. vertical 1200mm high, 90mm diameter CHS's with 750mm long, 900mm diameter CHS cross-member, set in concrete pads.</p> <p><b>Fittings</b> 110mm steel pipe 40mm galvanised pipe 100mm lagged pipe Electrical cable</p>
Condition:	Fair
Stability:	Good
Health and Safety:	
Record Information:	

# Waltham Abbey Royal Gunpowder Mills

## STRUCTURE SUMMARY SHEET

Structure No: BR58  
Structure Name: Bridge 58  
Structure Type: -  
Structure Date/Status: -/SAM, In SSSI  
Grid Reference: TL 37580 01278

Date: November 1998  
Rev:

Preservation Strategy:	Conserve
Construction:	All that remains of this structure are the concrete abutments, which are approximately 900 x 900mm square on plan.
Condition:	Overgrown
Stability:	Appears good
Health and Safety:	
Record Information:	



# Waltham Abbey Royal Gunpowder Mills

## STRUCTURE SUMMARY SHEET

Structure No: BR59  
Structure Name: Bridge 59  
Structure Type: Pipe Culvert  
Structure Date/Status: 1955 – 1965 / SAM  
Grid Reference: TL 37627 01162

Date: November 1998  
Rev:

Preservation Strategy:	Conserve
Construction:	Six 650mm diameter concrete culverts with concrete headwalls. Road over consists of wide grass verges and an asphalt road. Overall dimensions approximately 19.8m wide X 7.5m long
Condition:	Good
Stability:	Good
Health and Safety:	
Record Information:	

# Waltham Abbey Royal Gunpowder Mills

## STRUCTURE SUMMARY SHEET

Structure No: BR60  
Structure Name: Bridge 60  
Structure Type: Pipe Culvert  
Structure Date/Status: 1957?/SAM  
Grid Reference: TL 37660 01051

Date: November 1998  
Rev:

Preservation Strategy:	Conserve
Construction:	Six 900mm diameter concrete culverts with concrete headwalls. Road over consists of wide grass verges and an asphalt road. Overall dimensions approximately 16m wide x 6m long.
Condition:	Good
Stability:	Good
Health and Safety:	
Record Information:	

STRUCTURE SUMMARY SHEET

Structure No: BR61  
Structure Name: Bridge 61  
Structure Type: Pipe Bridge  
Structure Date/Status: Post 1947/Conservation Area  
Grid Reference: TL 37710 00882

Date: November 1998  
Rev:

Preservation Strategy:	Conserve
Construction:	Timber 'diamond' section box, approximately 300 x 300mm, covered in felt spans between timber abutments with intermediate concrete plinth support at edge of W bank.
Condition:	Fair
Stability:	Good
Health and Safety:	
Record Information:	

# Waltham Abbey Royal Gunpowder Mills

## STRUCTURE SUMMARY SHEET

Structure No: BR63  
Structure Name: Bridge 63  
Structure Type: Pipe Bridge  
Structure Date/Status: 1960s?/Conservation Area  
Grid Reference: TL 37767 01022

Date: November 1998  
Rev:

Preservation Strategy:	Conserve
Construction:	Three box-shaped steel circular hollow section stanchions are all that remain of this structure. Two stanchions are on either side of Middle Stream, the third is to N of buildings L180 and L181. Stanchions set in concrete bases.
Condition:	Fair
Stability:	Good
Health and Safety:	
Record Information:	

