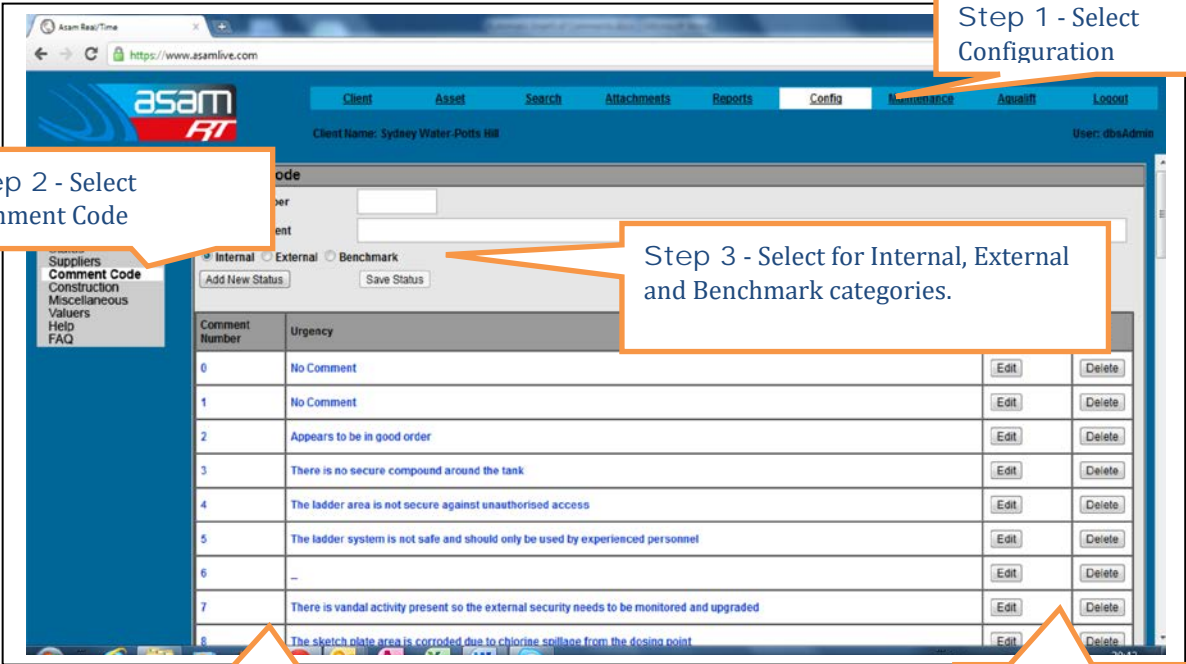


ASAM RT has an automatic 'Comment Code' inserting system, to assist with data collection and entry of similar inspection comments. The three areas that use these automated codes are within the Benchmarking, External and Internal Condition sections, when entering data.

The comments can be edited, added to or deleted in the 'Configurations' section > 'Comments Code', with the appropriate level of data administration.



Step 1 - Select Configuration

Step 2 - Select Comment Code

Step 3 - Select for Internal, External and Benchmark categories.

Comment Code -Number and automated comment

Edit or Delete a Comment

| Comment Number | Urgency | Edit | Delete |
|----------------|--|------|--------|
| 0 | No Comment | Edit | Delete |
| 1 | No Comment | Edit | Delete |
| 2 | Appears to be in good order | Edit | Delete |
| 3 | There is no secure compound around the tank | Edit | Delete |
| 4 | The ladder area is not secure against unauthorised access | Edit | Delete |
| 5 | The ladder system is not safe and should only be used by experienced personnel | Edit | Delete |
| 6 | - | Edit | Delete |
| 7 | There is vandal activity present so the external security needs to be monitored and upgraded | Edit | Delete |
| 8 | The splash plate area is corroded due to chlorine spillage from the dosing point | Edit | Delete |

Recording inspection data in the field, now involves writing down a number on the information sheet, instead of a full comment. Data entry is simplified by selecting that same number, and having a complete comment inserted.

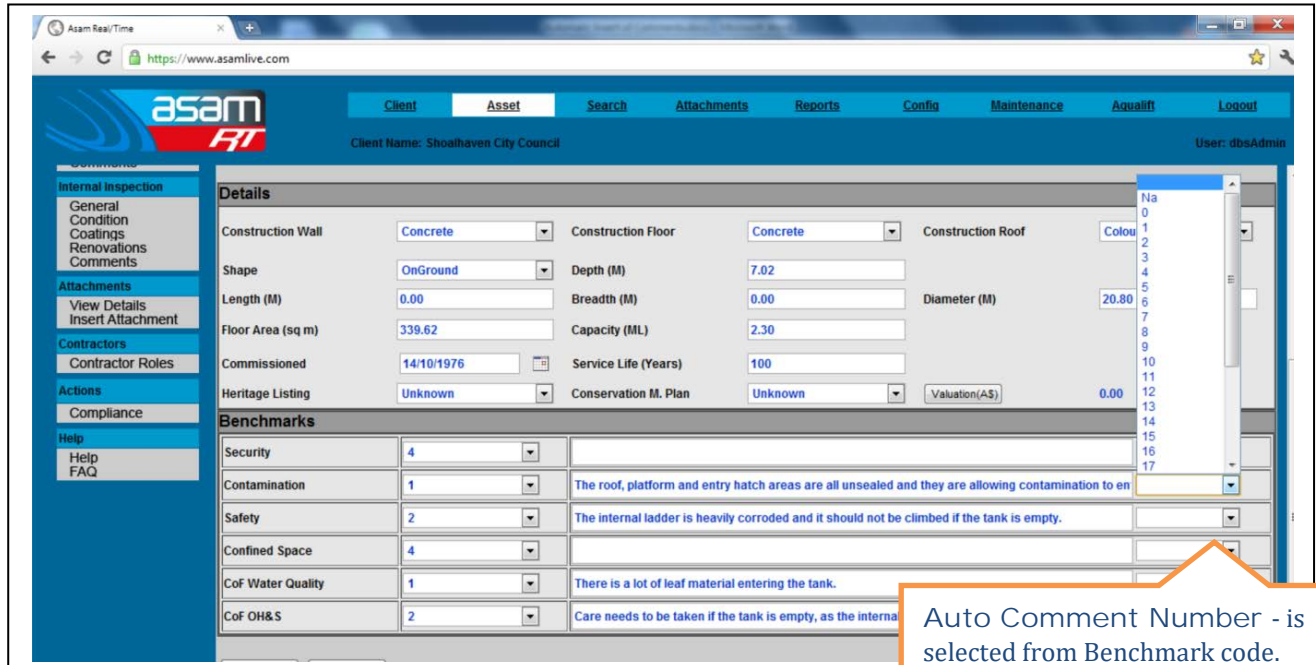
The Auto comments lists for Benchmarks, External and Internal inspections are at the end of this document – they are updated from time to time as new informational requirements emerge.

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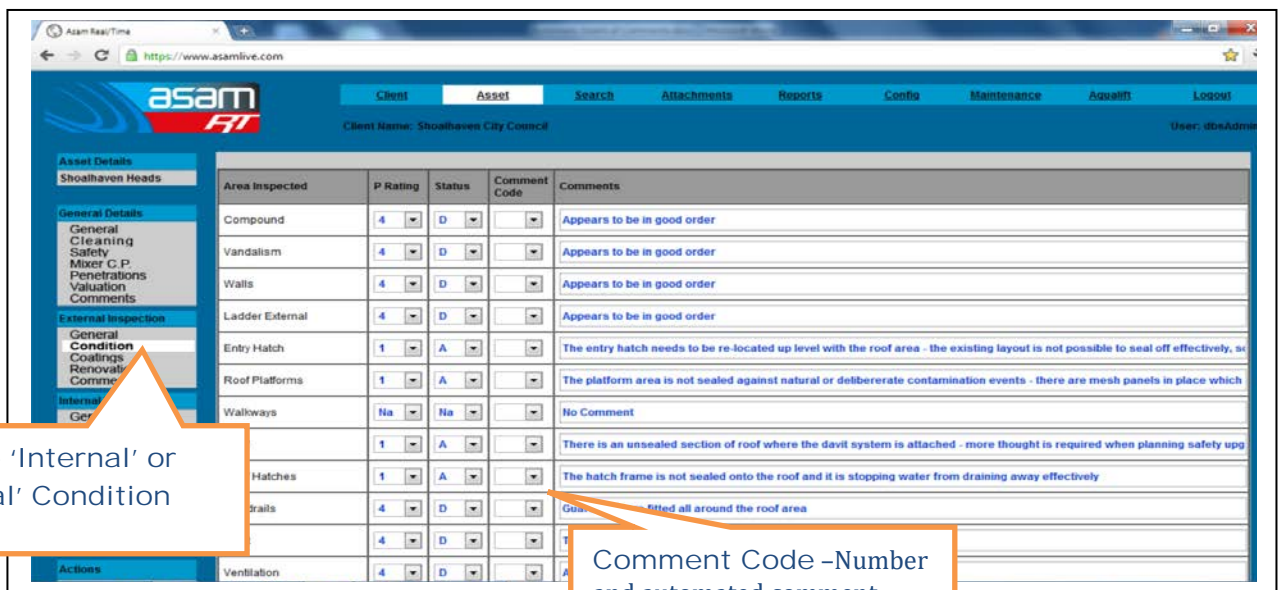
ASAM – AUTOMATIC COMMENTS



In the **Benchmarks section** at the bottom of the 'General Details' > 'General' page, an auto comment number can be selected from the RHS list, once in the editing mode. When this automatic comment has been inserted and saved, it can be re-edited again to suit the sentence requirement.



The External and Internal Condition pages also have an auto comments code section installed. Select the most appropriate comment number (from the separate list supplied) and once the comment has been inserted and saved, it can be re-edited or remain unchanged.



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BENCHMARKS - COMMENTS CODES

| | |
|----|---|
| 1 | THERE IS NO SECURE COMPOUND AROUND THE TANK |
| 2 | THE COMPOUND AREA IS BEING ACCESSED BY UNAUTHORISED PERSONNEL |
| 3 | THERE IS SIGNIFICANT GRAFFITI PRESENT ON THE WALL AREAS |
| 4 | THE EXTERNAL LADDER SECURITY IS POOR AND UNAUTHORISED PERSONS CAN ACCESS THE UPPER TANK AREAS |
| 5 | UNAUTHORISED PERSONS CAN ACCESS THE ROOF AREA AND THE ENTRY HATCH IS NOT SEALED AGAINST DELIBERATE CONTAMINATION EVENTS |
| 6 | THE ENTRY HATCH COVER DOES NOT SEAL AROUND THE FRONT EDGE AREA WHERE THE LADDER STILES EXTEND THROUGH |
| 7 | THE UNSEALED ENTRY HATCH NEEDS TO BE RENOVATED TO PREVENT A WATER QUALITY EVENT FROM OCCURRING |
| 8 | THE ENTRY HATCH FRAME DOES NOT HAVE A SEALED FRONT EDGE – NATURAL OR DELIBERATE CONTAMINATION EVENTS CAN OCCUR |
| 9 | THE ENTRY HATCH COVER IS NOT LOCKED OR SECURED AGAINST UNAUTHORISED ACCESS |
| 10 | BIRDS AND VERMIN CAN ENTER THE TANK |
| 11 | THE VENT MESH IS DAMAGED, ALLOWING BIRDS AND VERMIN TO ENTER THE TANK |
| 12 | THE ROOF GUTTERS ARE BLOCKED, ALLOWING STORMWATER TO BACK FLOW INTO THE TANK |
| 13 | THE ROOF DRAINAGE IS NOT PROPERLY CONNECTED INTO THE OVERFLOW PIPE – CONTAMINATION EVENTS ARE OCCURRING REGULARLY |
| 14 | THE PLATFORM AREA IS NOT SEALED AGAINST NATURAL OR DELIBERATE CONTAMINATION DRAINING BACK INTO THE TANK |
| 15 | THE PLATFORM AREA IS UNSEALED AND THERE IS A LOT OF DEBRIS COLLECTED, READY TO DRAIN INTO THE TANK |
| 16 | THERE ARE SIGNIFICANT CONTAMINATION POINTS PRESENT AROUND THE PLATFORM AREA |
| 17 | THE INTERNAL LADDER SYSTEM IS HEAVILY CORRODED AND THIS WILL AFFECT THE STORED WATER QUALITY |
| 18 | SIGNIFICANT AMOUNTS OF INTERNAL CORROSION ARE AFFECTING THE STORED WATER QUALITY |
| 19 | THE INTERNAL LADDER AND CAGE ARE HEAVILY CORRODED – THEY ARE NOT SAFE TO USE WHEN THE TANK IS EMPTY |
| 20 | THE ENTRY HATCH IS TOO SMALL FOR A SAFE DIVER ACCESS OR RESCUE SITUATION |
| 21 | THE EXISTING INTERNAL LADDER DESIGN MAKES A CONFINED SPACE ACCESS OR RESCUE SITUATION DIFFICULT |
| 22 | THE INTERNAL LADDER IS POORLY POSITIONED AND TAKES UP AVAILABLE ACCESS UNDER THE ENTRY HATCH |
| 23 | THE INTERNAL LADDER SYSTEM NEEDS TO BE UPGRADED TO IMPROVE SAFETY OF THE PERSONNEL USING IT |
| 24 | THERE IS NO SOLID AREA ON THE ROOF TO SET UP A RESCUE SYSTEM – A CONFINED SPACE ACCESS OR RESCUE SITUATION WOULD BE DIFFICULT |
| 25 | THERE IS NO INTERNAL LADDER FITTED |
| 26 | WATER QUALITY IS COMPROMISED BY POOR HATCH SEALING AND SECURITY |
| 27 | THE ROOF AREA IS NOT SEALED AND STORM WATER IS DRAINING BACK INTO THE TANK |

EXTERNAL and INTERNAL - COMMENTS CODES

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ASAM – AUTOMATIC COMMENTS



| | |
|----|---|
| 1 | NO COMMENT |
| 2 | APPEARS TO BE IN GOOD ORDER |
| 3 | THERE IS NO SECURE COMPOUND AROUND THE TANK |
| 4 | THE LADDER AREA IS NOT SECURE AGAINST UNAUTHORISED ACCESS |
| 5 | THE LADDER SYSTEM IS NOT SAFE AND SHOULD ONLY BE USED BY EXPERIENCED PERSONNEL |
| 6 | |
| 7 | THERE IS VANDAL ACTIVITY PRESENT SO THE EXTERNAL SECURITY NEEDS TO BE MONITORED AND UPGRADED |
| 8 | THE SKETCH PLATE AREA IS CORRODED DUE TO CHLORINE SPILLAGE FROM THE DOSING POINT |
| 9 | THERE IS HEAVY STAINING PRESENT ON THE COATING |
| 10 | |
| 11 | UNSEALED AREAS ARE ALLOWING NATURAL OR DELIBERATE CONTAMINATION TO ENTER THE TANK |
| 12 | STORMWATER AND DEBRIS ARE COLLECTING AND DRAINING BACK INTO THE TANK |
| 13 | THE ENTRY HATCH SHOULD BE MODIFIED - A SEALED FRONT EDGE NEEDS TO BE FITTED, ALONG WITH A HINGED, OVERLAPPING HATCH COVER TO PREVENT CONTAMINATION FROM ENTERING THE TANK |
| 14 | THE HATCH COVER IS NOT SEALED AROUND THE EDGES AND CONTAMINATION CAN ENTER THE TANK |
| 15 | THE ENTRY HATCH IS TOO SMALL FOR A SAFE DIVER ENTRY OR RESCUE SITUATION |
| 16 | THE ENTRY HATCH COVER IS NOT SEALED AROUND THE FRONT EDGE AREA AND WHERE THE LADDER STILES PASS THROUGH - CONTAMINATION CAN ENTER THE TANK |
| 17 | |
| 18 | AN IMPROVED GUARD RAIL SYSTEM IS REQUIRED TO UPGRADE PERSONNEL SAFETY AROUND THE PLATFORM AREA |
| 19 | |
| 20 | THE ROOF SHEETS NEED RE-FIXING AROUND THE EDGES TO PREVENT STORM DAMAGE FROM OCCURING |
| 21 | SOME AREAS OF FLASHING ARE LOOSE AND NEED RE-FIXING TO PREVENT FURTHER WIND DAMAGE FROM OCCURING |
| 22 | |
| 23 | THE VENTILATION MESH IS DAMAGED AND SMALL BIRDS CAN ENTER THE TANK |
| 24 | THE MESH UNDER THE EAVES IS DAMAGED AND BIRDS OR POSSUMS CAN ENTER THE TANK |
| 25 | THE TANK IS NOT SEALED UNDER THE ROOF AREA AND SMALL BIRDS OR RODENTS CAN ENTER THE TANK |
| 26 | |
| 27 | A TITAN ARM AND NEXTEP VERTICAL FRP LADDER SYSTEM NEEDS TO BE INSTALLED TO MAKE THE TANK CONFINED SPACE COMPLIANT |
| 28 | THE DAVID ARM HAS BEEN WELDED INTO A FIXED POSITION TO PREVENT IT FROM BEING USED EFFECTIVELY |
| 29 | THERE ARE CHAINS FITTED INTO THE GUARD RAIL SYSTEM ADJACENT TO THE DAVIT AREA |
| 30 | THERE IS A GATE FITTED INTO THE GUARD RAIL SYSTEM ADJACENT TO THE DAVIT AREA |
| 31 | |
| 32 | THERE IS EXPOSED ELECTRICAL WIRING PRESENT |
| 33 | THE CABLE IS BROKEN AND THE LEVEL INDICATOR NO LONGER OPERATES |
| 34 | THE DEPTH SCALE IS NO LONGER LEGIBLE |
| 35 | |
| 36 | THERE IS CORROSION AND DETERIORATION PRESENT |
| 37 | THERE IS HEAVY STAINING ON THE COATING |
| 38 | OSMOTIC BLISTERS HAVE FORMED UNDER THE COATING |
| 39 | THE COATING LACKS ADHESION AND IS PEELING OFF IN SEVERAL AREAS |
| 40 | THERE IS LIGHT CORROSION PRESENT |
| 41 | CORROSION IS BLEEDING THROUGH THE COATING ON MOST AREAS |
| 42 | THERE ARE SIGNIFICANT CORROSION NODULES PRESENT |
| 43 | THERE IS CORROSION PRESENT ON THE FLANGES AND FITTINGS |
| 44 | THERE IS CORROSION PRESENT ON THE RAFTERS WHERE CHLORINE HAS BEEN SPILT |

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| | |
|----|---|
| 45 | THE CP DOES NOT APPEAR TO BE CONTROLLING THE CORROSION THAT IS PRESENT |
| 46 | THE CP APPEARS TO BE EFFECTIVE IN CONTROLLING CORROSION IN THE COATING DEFECT AREAS |
| 47 | THERE IS CORROSION AND DETERIORATION PRESENT AT THE BASE OF THE WALL FLOOR AREA |
| 48 | THERE IS SIGNIFICANT CORROSION BLEEDING THROUGH THE BITUMEN COATING |
| 49 | THERE ARE SIGNIFICANT CORROSION NODULES PRESENT |
| 50 | SIGNIFICANT CORROSION IS PRESENT RIGHT ACROSS THE FLOOR AREA AND STRUCTURAL DAMAGE IS OCCURRING - AN IMPRESSED CATHODIC PROTECTION SYSTEM IS REQUIRED IMMEDIATELY TO SLOW DOWN THE RATE OF DETERIORATION UNTIL THE TANK IS RE-COATED. RE-COATING SHOULD BE CLIMATE CONTROLLED TO GUARANTEE AN EFFECTIVE OUTCOME AND GOOD VALUE FOR MONEY EXPENDED |
| 51 | |
| 52 | THE OVERFLOW BASE AND RISER SECTIONS ARE HEAVILY CORRODED |
| 53 | |
| 54 | THE ROOF DRAINAGE IS NOT PROPERLY CONNECTED INTO THE OVERFLOW PIPE - CONTAMINATION EVENTS ARE OCCURRING REGULARLY |
| 55 | THE OVERFLOW RISER IS DUCTILE IRON AND NOT EPOXY COATED - IT IS BEGINNING TO CORRODE, PARTICULARLY WHERE THE SS SUPPORT BRACKETS ARE FIXED |
| 56 | |
| 57 | THE OUTLET IS COMMON WITH THE INLET AND IT IS LEVEL WITH THE FLOOR - A TWO WAY NOZZLE SHOULD BE FITTED TO PREVENT SEDIMENT ENTRY INTO THE PENETRATION AND TO BLEND THE STORED WATER |
| 58 | SEDIMENTS CAN ENTER THE PIPEWORK BECAUSE THE OUTLET PENETRATION IS LEVEL WITH THE FLOOR |
| 59 | |
| 60 | THERE ARE NO OUTLET SCREENS PRESENT FOR DIVER SAFETY |
| 61 | THERE IS A BRASS SCREEN PRESENT - THE LARGE SURFACE AREA CAUSES SEDIMENTS TO ACCUMULATE AROUND THE OUTLET PENETRATION |
| 62 | THERE IS A FIBREGLASS SCREEN PRESENT - THE LARGE SURFACE AREA CAUSES SEDIMENTS TO ACCUMULATE AROUND THE OUTLET PENETRATION |
| 63 | |
| 64 | THE LADDER CAGE SHOULD BE REMOVED TO IMPROVE DIVER SAFETY AND TO MAKE THE TANK CONFINED SPACE COMPLIANT |
| 65 | THE INTERNAL LADDER IS HEAVILY CORRODED AND SHOULD BE REPLACED WITH A NEXTEP VERTICAL FRP SYSTEM MM LONG |

Spaces have been left in some areas to allow for additional comments to be inserted into the same related sections. A laminated list of the comments and their numbers should be carried when carrying out field inspections.