

Tank Inspection Report



28/12/2011

Job No: 024896 **Reservoir Name:** High St No1
Inspection Date: 11/05/2011 **Client Name:** All State City Council
Environment Type: City **Location:** RHS off High Street
Inspected By: D Barry **Inspection Due:** 11/05/2012
Clean Due: 11/05/2012

Details

Construction Wall: Concrete **Construction Floor:** Concrete **Construction Roof:** Aluminium
Shape: OnGround **Depth:** 6.20 **Diameter:** 13.50
Length: 0.00 **Breadth:** 0.00
Floor Area: 143.06 **Capacity:** 0.89
Vehicle Access: ■ Good **Tanker Access:** ■ Fair
Site Access: ■ Good **Lifting Access:** ■ Fair
Ext Ladder Type: Aluminium Vertical
Ext Ladder Cond: ■ Fair **Ext Ladder Length:** 0.00
Int Ladder Type: Galvanized Steel Angled
Int Ladder Cond: ■ Poor **Int Ladder Length:** 0.00
Confined Space: ■ 2 **Davit:** No **Davit Type:** None
Hatch Condition: ■ Good **Hatch Length:** 0.80 **Hatch Breadth:** 0.80

Penetrations

Penetration Type	Pipework Location	Position of Pipework	Size of Pipework	Screened
Inlet	Top	12	250	No
Outlet	Floor	12	250	No
Scour	Floor	12	150	No

Priority 0 Item requires immediate attention.
Priority 1 Item is in poor condition or otherwise non functional.
Priority 2 Item is to receive precedence during maintenance
Priority 3 Item is functional but deteriorated/ not in operational order.
Priority 4 Item is in good condition.

Status A = Attention Required
Status F = Item to be Reassessed
Status D = Item to be Deferred until next Inspection

External Inspection

Structure:  4

Coatings:  4

External

Area	Priority	Status	Comments
Compound	N/A	N/A	There is no secure compound around the tank
Vandalism	 4	D	Appears to be in good order
Walls	 4	D	Appears to be in good order
Ladder External	 2	F	The external ladder is to be climbed by experienced personnel only
Entry Hatch	 1	A	The entry hatch is not sealed against contamination around the edges
Roof Platforms	 1	A	The platform area is not sealed against contamination - there are a significant amount of leaves inside the tank
Walkways	N/A	N/A	No Comment
Roof	 4	D	Appears to be in good order
Roof Hatches	 1	A	The roof hatch is not secure against unauthorized access and there are a significant amount of leaves entering the tank
Handrails	 2	A	An improved guard rail system is required to upgrade personnel safety around the platform area
Davit	N/A	N/A	No Comment
Ventilation	N/A	N/A	No Comment
Bird Proofing	 4	D	Appears to be in good order
Electrical	N/A	N/A	No Comment
Level Indicator	N/A	0	No Comment

External Comments

The entry hatch and platform areas are not sealed against contamination - there are a significant amount of leaves inside the tank.

Internal Inspection

Structure:  4

Coatings:  4

Average Depth: 30.00

Water Clarity: Clear

Deposit Type: Lime

Priority 0 Item requires immediate attention.

Priority 1 Item is in poor condition or otherwise non functional.

Priority 2 Item is to receive precedence during maintenance

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Priority 4 Item is in good condition.

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Internal

Area	Priority	Status	Comments
Walls	4	D	Appears to be in good order
Columns	N/A	N/A	No Comment
Roof Spider	N/A	N/A	No Comment
Roof Framing	4	D	Appears to be in good order
Floor	4	D	Appears to be in good order
Inlet	4	D	Appears to be in good order
Outlet	4	D	Appears to be in good order
Scour	4	D	Appears to be in good order
Overflow	2	A	The overflow riser is heavily corroded
Mixer Motor	N/A	N/A	No Comment
Motor Type	N/A	N/A	No Comment
Supports	N/A	N/A	No Comment
Supports Type	N/A	N/A	No Comment
Ladder Internal	1	A	The ladder is heavily corroded and should be replaced with a Nextep vertical FRP system 6800mm long when the platform is renovated
Electrical	N/A	N/A	No Comment

Internal Comments

The ladder is heavily corroded and should be replaced with a Nextep vertical FRP system 6800mm long when the platform is renovated - this ladder length has allowed for a platform renovation higher than the existing entry hatch level.

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Priority 4 Item is in good condition.

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Tank Inspection Report



28/12/2011

Job No: 024913 **Reservoir Name:** High St No2
Inspection Date: 23/05/2011 **Client Name:** All State City Council
Environment Type: Urban **Location:** off High Street
Inspected By: D Barry **Inspection Due:** 23/05/2013
Clean Due: 23/05/2013

Details

Construction Wall: Steel **Construction Floor:** Steel **Construction Roof:** Aluminium
Shape: OnGround **Depth:** 8.60 **Diameter:** 31.00
Length: 0.00 **Breadth:** 0.00
Floor Area: 754.39 **Capacity:** 6.49
Vehicle Access: ■ Good **Tanker Access:** ■ Poor
Site Access: ■ Unknown **Lifting Access:** ■ Good
Ext Ladder Type: Coated Steel and Platform
Ext Ladder Cond: ■ Good **Ext Ladder Length:** 0.00
Int Ladder Type: Galvanised Steel and Platform
Int Ladder Cond: ■ Good **Int Ladder Length:** 8.30
Confined Space: ■ 4 **Davit:** No **Davit Type:** None
Hatch Condition: ■ Good **Hatch Length:** 0.80 **Hatch Breadth:** 1.00

Penetrations

Penetration Type	Pipework Location	Position of Pipework	Size of Pipework	Screened
Inlet	Wall	1	300	No
Outlet	Wall	4	450	No
Scour	Wall	2	400	No

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External Inspection

Structure:  4

Coatings:  4

External

Area	Priority	Status	Comments
Compound	 3	F	The compound fence has been impacted in several areas and repairs are required
Vandalism	 4	D	Appears to be in good order
Walls	 4	F	There is some graffiti on the lower sections
Ladder External	 4	D	Appears to be in good order
Entry Hatch	 4	D	Appears to be in good order
Roof Platforms	 2	A	The kick plates are sealed and allowing debris and water ponding to occur - large drainage holes need to be cut into the base areas
Walkways	 Na	Na	No Comment
Roof	 3	F	There are a number of missing roof screws around the centre roof vent area
Roof Hatches	 Na	Na	No Comment
Handrails	 4	D	Appears to be in good order
Davit	 Na	Na	No Comment
Ventilation	 4	D	Appears to be in good order
Bird Proofing	 4	D	Appears to be in good order
Electrical	 Na	Na	No Comment
Level Indicator	 Na	Na	No Comment

External Comments

The kick plates are sealed and allowing debris and water ponding to occur - large drainage holes need to be cut into the base areas.

Internal Inspection

Structure:  4

Coatings:  2

Average Depth: 15.00

Water Clarity: Clear

Deposit Type: Fine Silt

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Internal

Area	Priority	Status	Comments
Walls	3	A	Corrosion is developing on some of the lower welds
Columns	3	A	Corrosion nodules are forming on the lower areas and around the bases
Roof Spider	4	D	Appears to be in good order
Roof Framing	3	F	Minor corrosion is appearing on the joining areas
Floor	1	A	Corrosion nodules are forming over most of the floor - Cathodic protection will help prolong the coating life if it is installed promptly
Inlet	2	A	The inlet needs a flange and diversion nozzle fitted during re-coating to direct the water flow upwards and away from the floor area
Outlet	4	D	Appears to be in good order
Scour	4	D	Appears to be in good order
Overflow	3	D	Appears to be in good order
Mixer Motor	Na	Na	No Comment
Motor Type	Na	Na	No Comment
Supports	Na	Na	No Comment
Supports Type	Na	Na	No Comment
Ladder Internal	3	F	The ladder and platform are galvanized steel with corrosion present on the rungs
Electrical	Na	Na	No Comment

Internal Comments

Corrosion nodules are forming over most of the floor - Cathodic protection will help prolong the coating life if it is installed promptly. The 1993 PWD coating report stated - minor pitting on the floor, and this problem has developed significantly over the last 15 years.

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