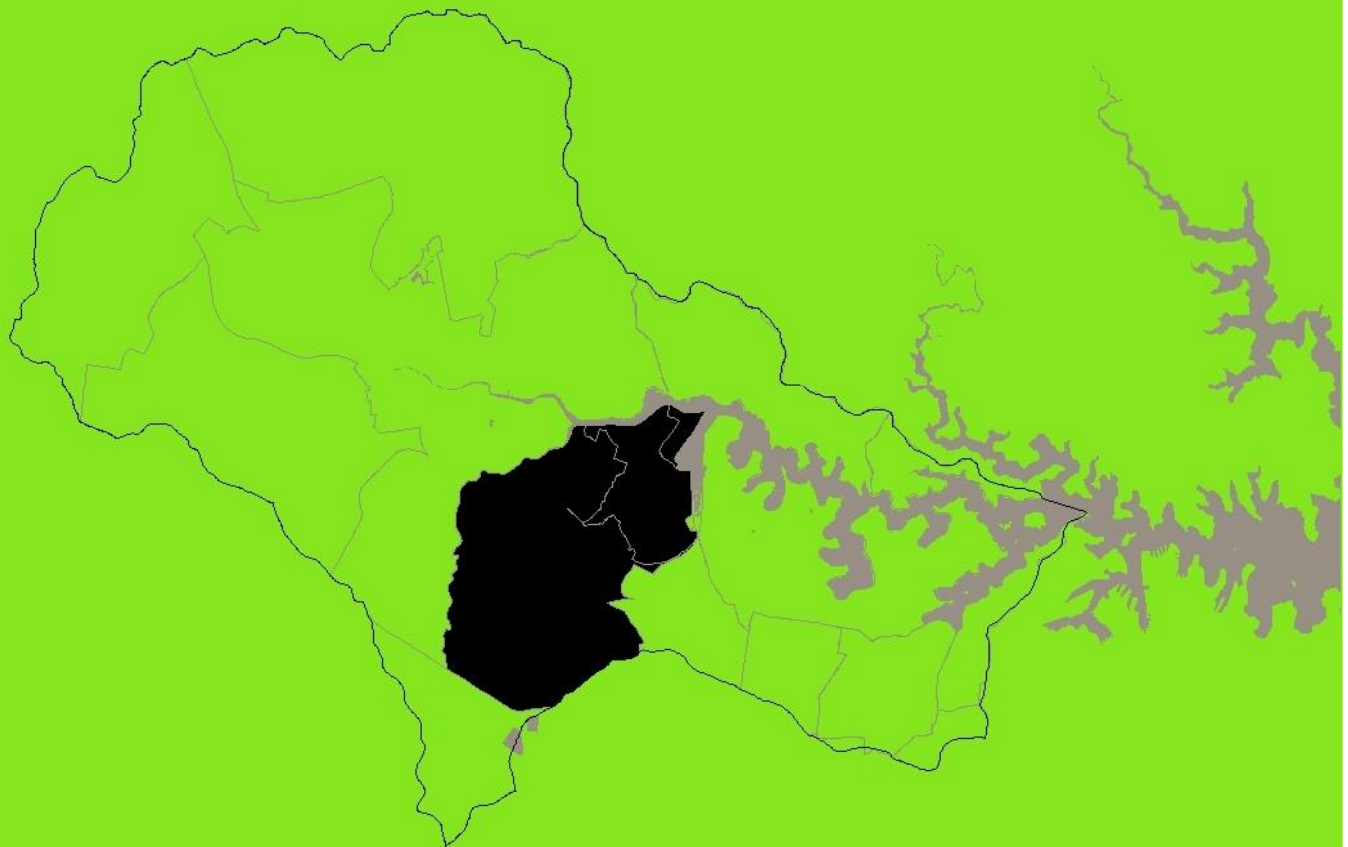


Auburn LGA



9.7 Auburn

9.7.1 Stormwater Management and GPTs

The Auburn LGA drains to the Parramatta River via both Duck River and Homebush Bay. Approximately 24% of the Duck River catchment lies within the Auburn LGA, with the Duck River forming the boundary between Auburn and Parramatta LGAs. Approximately 54% of the Homebush Bay catchment lies within the Auburn LGA, most of which is drained by Haslams Creek.

Land use in Auburn can be divided into five main categories: residential, business, industrial, special uses and recreational, plus the separately administered areas of Sydney Olympic Park²³ and Rookwood Cemetery.

Stormwater and GPT projects are funded from the Council's adopted Stormwater Service Charge, and using these funds allows Council to build extra GPT's each year (Auburn SoE 2008/2009). Table 9-34 lists available data on waste removed from GPTs and street sweeping programs reported in Council's SoE reporting.

Table 9-34. Waste removed from GPTs and street sweeping program in Auburn LGA.

SoE Reporting Period	2005-06	2006-07	2007-08*	2008-09
Litter removed from GPTs (tonnes)	80	61	no data	56
Organic matter – street sweeping program (tonnes)	1060	1280	no data	no data

A number of stormwater inflows to Homebush Bay and Parramatta River between Wentworth Point and Newington Nature Reserve (Sydney Olympic Park) are not mapped within Council GIS data layers provided for this study. A total of 57 outlets were found during field investigations and desktop analysis of existing GIS layers. Potential locations where gross pollutant control or other stormwater management incentives could be warranted include: River_South_090; Duck_River_013; and Duck_River_006. All outlets are illustrated on Figures 9.6 (a to c).

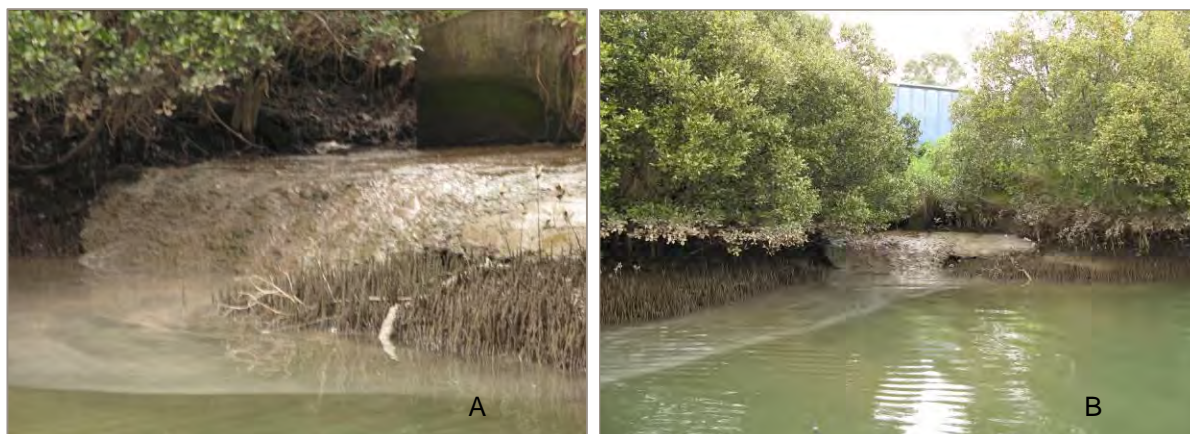
During field investigations, contaminated flows were observed discharging from a stormwater inflow (draining the industrial area in Silverwater) into Duck River: *Photos A and B*. The source of contamination was not ascertained at the time.

In the past Auburn Council implemented a monthly water quality monitoring program to assess the health of catchment waterways (including Duck River and Haslams Creek). This monitoring program is currently on hold pending its formal review and planned reinstatement into a new and improved robust water quality monitoring program (SoE 2008/09).

The program is designed to track catchment pollution incidences, guide corporate management practices in local business and industry, to meet legislative requirements, and assess and improve the health of local waterways SoE 2008/09).

The results of the monitoring program were not obtained at the time of preparing this study, and the location of water quality sampling sites not ascertained. Therefore any historical issues with the stormwater outlet pictured in *Photos A and B* were not determined.

²³ Sydney Olympic Park covers approximately 557 ha or 18% of the Homebush Bay catchment and is discussed separately in Section 9.9.



9.7.2 Seawalls

Approximately 5.4 km of seawalls were assessed within the Auburn LGA, of which 2.2 km is located within land managed by SOPA. The remaining 3.2 km (within the catchment managed by Auburn LGA) comprises approximately 2.7km located in Homebush Bay and 0.5 km along Duck River.

Thirteen (13) distinct sections of seawall were assessed in terms of condition, and potential risk to assets and public safety (Table 9-35). Assessment details and management recommendations for high priority seawall sections are provided in Table 9-36.

Table 9-35. Seawalls assessed within the Auburn LGA

Asset Name	Locality	Condition	Length (m)	Existing Habitat
AUB_S01	Homebush Bay	Good	119.2	Large sandstone boulders, scattered mangroves
AUB_S02	Homebush Bay	Poor	200.5	Oysters on various sized rubble
AUB_S03	Homebush Bay	Good	493.5	None obvious
AUB_S04	Homebush Bay	Failed	154.2	Rubble substrate
AUB_S05	Homebush Bay	Good	77.3	None obvious
AUB_S06	Homebush Bay	Poor	63.5	Rubble substrate
AUB_S07	Homebush Bay	Poor	207.6	None obvious
AUB_S08	Homebush Bay	Poor	30.6	Occasional oysters
AUB_S09	Wentworth Point, Homebush Bay	Failed	777.6	Rubble substrate, oysters, sandy beach
AUB_S10	Homebush Ferry Wharf to Newington Nature Reserve	Good	599.3	Rubble substrate, oysters
AUB_S11	Silverwater Park	Good	138.1	Rocky substrate
AUB_S12	Silverwater Park	Good	238.5	Densely established mangroves
AUB_S13	Duck River, Eastern Bank	Good	120.3	Densely established mangroves upstream of wall
			3,220.2	

Table 9-36 High priority seawalls within the Auburn LGA

Asset Name	Length (m)	Cost range for traditional engineered seawall replacement ²⁴		Habitat Creation Option ²⁵
		(\$3,000/lineal m)	(\$5,000/lineal m)	
AUB_S02	200.5	\$601,606.18	\$1,002,676.97	Artificial reef habitat
AUB_S04	154.2	\$462,468.93	\$770,781.55	Low profile sill and riparian or saltmarsh establishment
AUB_S06	63.5	\$190,382.31	\$317,303.85	Low profile sill and riparian or saltmarsh establishment
AUB_S07	207.6	\$622,724.98	\$1,037,874.96	Artificial reef habitat
AUB_S08	30.6	\$91,859.43	\$153,099.05	Low profile sill
AUB_S09	777.6	\$2,332,850.10	\$3,888,083.51	Artificial reef habitat

9.7.3 Foreshore Erosion

Only one foreshore length of approximately 572.7 m was found with erosion in the Auburn LGA, which is located at the confluence of the River with Duck River. The foreshore section comprises a muddy shoreline vegetated with mangroves. Erosion was observed with undermining and loss of fine material from pneumatophores due to exposure to vessel wash. No public access available and no structures are supported by this foreshore (Refer Appendix 6).

9.7.4 Foreshore Facilities

Nine foreshore facilities were assessed in the Auburn LGA (Table 9-37). Assessment details and management recommendations for high priority facilities are provided in Table 9-38.

Table 9-37 All facilities assessed in the Auburn LGA

Asset Name	Location	Facility Type	Condition
AUB_F01	Homebush Bay	Kayak / canoe storage	Good
AUB_F02	Homebush Bay	Timber landing	Poor
AUB_F03	Homebush Bay	Timber landing	Failed
AUB_F04	Homebush Bay	Timber landing	Poor
AUB_F05	Homebush Bay	Timber wharf	Failed
AUB_F06	Adjacent Homebush Ferry Wharf	Concrete sea stairs	Good
AUB_F07	North West of Homebush Ferry Wharf	Concrete landing	Failed
AUB_F08	North West of Homebush Ferry Wharf	Steel footbridge	Excellent
AUB_F09	Adjacent Silverwater Bridge	Two lane boatramp	Good

²⁴ The cost to install a new seawall or coastal revetment is dependent on a number of factors, including:

- The ground conditions at the site
- Materials required, material availability and whether existing materials can be reused
- Site access
- The required structure profile including slope, crest height and foundation depth
- Hydrodynamic conditions

In light of this variability, an indicative cost of \$3,000-\$5,000 per linear metre of seawall has been adopted for seawalls requiring replacement.

²⁵ Refer section 4.8.1 for explanation of treatments

Table 9-38 High priority facilities assessed in the Auburn LGA

Asset Name	Description	Condition	Priority
AUB_F05	Private timber wharf with steel rail around its perimeter. A number of the timber piles have failed at the water line. All other components are showing signs of deterioration. The piles have failed and the structure may collapse if no action is taken.	Failed	1
AUB_F03	Timber landing supported by timber piles and the adjacent seawall, AUB_S03. A low timber rail is present around the perimeter of the structure. The southernmost pile has been replaced recently. Large umbrellas for shade have been installed on the structure. Apart from the new pile at the southern end of the structure, all timber piles have failed at the water line. Other timber components are showing signs of deterioration. Structure may collapse if no action is taken.	Failed	2
AUB_F02	Timber landing with three levels of timber sea stairs. The structure is supported by timber piles and the adjacent seawall, AUB_S03. A low timber rail is present around the perimeter of the structure. The bed around the structure is exposed at low tide. Timber piles are severely deteriorated at the water line and may fail if not replaced.	Poor	3
AUB_F04	Timber landing supported by timber piles and the adjacent seawall, AUB_S03. Deck is constructed from concrete panels and timber slats. Two large umbrellas have been installed on the structure for shade. A steel ladder provides access to the water. Timber piles and other components are showing signs of deterioration. Although not as urgent as the two other facilities at this location (AUB_F02 & AUB_F03), the piles are in poor condition and may fail if not replaced.	Poor	4
AUB_F07	Concrete landing supported by concrete piles north west of Homebush Ferry Wharf. The structure is fenced off from the adjacent footpath/cycleway. Old timber fender piles are present in front of the structure. The structure appears condemned / abandoned with severe corrosion of concrete beams beneath landing exposing reinforcement. No public access is available and the structure does not support any other assets.	Failed	5

9.7.5 Estuarine Vegetation

Estuarine vegetation located within the Auburn LGA (excluding that found within the Sydney Olympic Park) includes approximately 13.2 ha of mangroves, 1.3 ha of saltmarsh, and 0.4 ha of Swamp-oak floodplain forest (Table 9-39).

Table 9-39. Estuarine vegetation communities within Auburn LGA

Community	Landward Migration		Total (m ²)	Total (ha)
	Limited	Potential		
Mangroves	113,458.4	18,183.5	131,641.9	13.2
Saltmarsh	10,323.7	2,725.8	13,049.5	1.3
Swamp-oak floodplain forest	2,197.9	1,827.2	4,025.2	0.4

The majority of estuarine vegetation is located on the foreshore of the Duck River, with smaller areas of mangroves and saltmarsh habitat present on Wentworth Point at the confluence of Parramatta River and Homebush Bay. The latter areas of saltmarsh are dominated by the introduced *Juncus acutus* (Spiny Rush) which is an ongoing management issue within Homebush Bay.

The foreshore of Duck River offers limited potential for landward migration due to the proximity of industrial areas. Approximately 8,091.8 m² or 0.8 ha of saltmarsh communities estimated in Table 9-39 contains mapped areas of the vulnerable species *Wilsonia backhousei*. All *Wilsonia backhousei* is found in saltmarsh communities occurring along the foreshore of Duck River, and those which have limited potential for landward migration.

Mangroves located along the foreshore of Wentworth Point are presently constrained by seawalls, with the future of saltmarsh located upslope dependent on the proposed future development of this site as a marina.

9.7.6 Management Recommendations

Stormwater Management:

- Several unmapped stormwater inflows were identified during field investigations. Council's GIS data layer should be updated to include these assets. The location of each inflow is provided in the project's GIS database as a shapefile;
- Monitoring of the Duck River stormwater inlet to determine whether pollution incident was one off event or a continued issue;
- Repair and re-anchor stormwater boom in Duck River;
- Structural repair of stormwater inflows - two within Homebush Bay and one along the Parramatta River upstream of Wentworth Point: (Photo: 9.2(c)).

Seawalls, Facilities, and Foreshore Erosion

- As per recommendations in preceding sections (9.6.2 – 9.6.4) whilst ensuring that appropriate measures are put in place to prevent public access to unstable structures or other identified safety risk areas²⁶.

Estuarine Vegetation:

Wentworth Point – Fig. 6(a):

The proposed redevelopment of Wentworth Point will require:

- Appropriate compensatory saltmarsh habitat to replace that which will be removed, and
- The removal, remediation or replacement of soils that will contain *Juncus acutus* seeds within both areas designated as saltmarsh and for non-intertidal landscaping: (Photo: 9.2(d)).

The limited potential for landward migration of saltmarsh located within the foreshore of Duck River significantly decreases the longer term viability of this community. These saltmarsh communities should be monitored on a yearly basis to assess whether changes over time become evident and whether causal factors such as mangrove encroachment or altered tidal inundation is effecting the extent of cover and condition of existing growth; and

- Where decreased extent of cover or condition of existing growth becomes evident, the existing communities might be used to provide propagative material for restoration in compensatory habitat areas and / or existing saltmarsh rehabilitation projects.



²⁶ Following field investigations for this study, facilities located within the Auburn LGA that were considered to have a high OH&S risk were brought to the notice of both Auburn Council and NSW Maritime. It is understood that appropriate measures have been installed until such a time that these facilities are repaired or replaced.

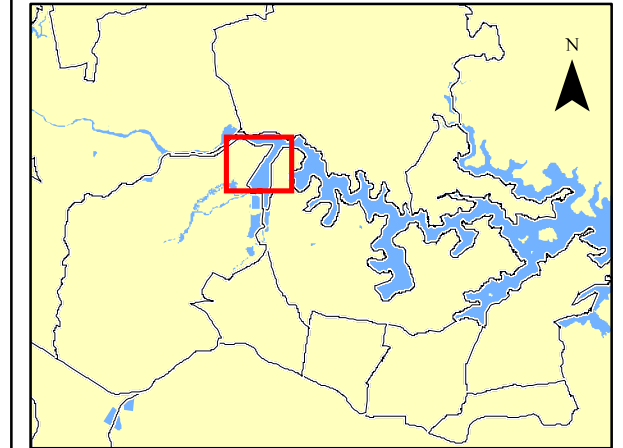
***Duck River – Fig. 9.6(b):***

Large areas of saltmarsh including *Wilsonia backhousei* are located adjacent industrial development and consequently will not remain viable over time as sea level rises.

These areas should be monitored at least on an annual basis to gauge vegetation health and whether translocation (if possible) to more suitable locations becomes necessary.

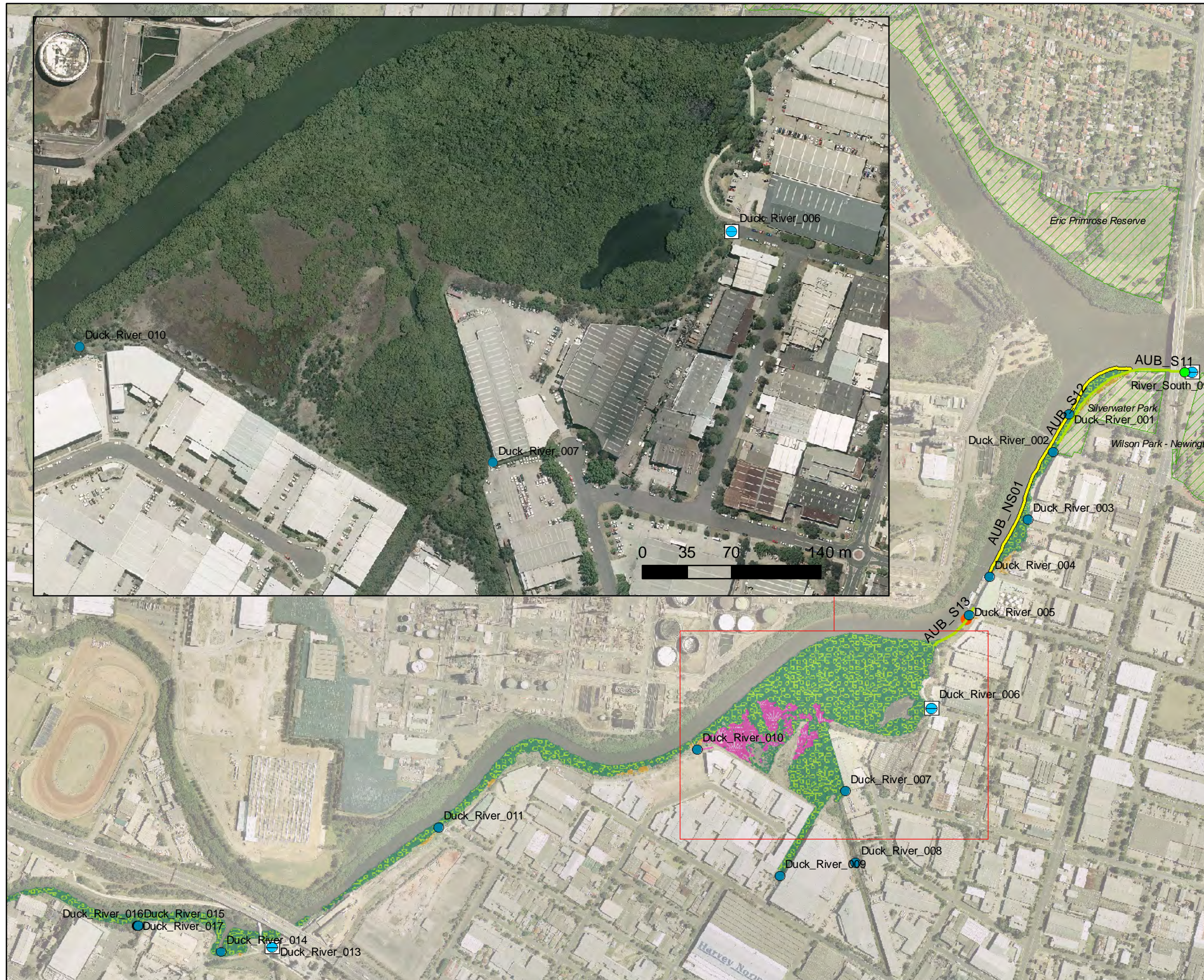


SITE LOCATION

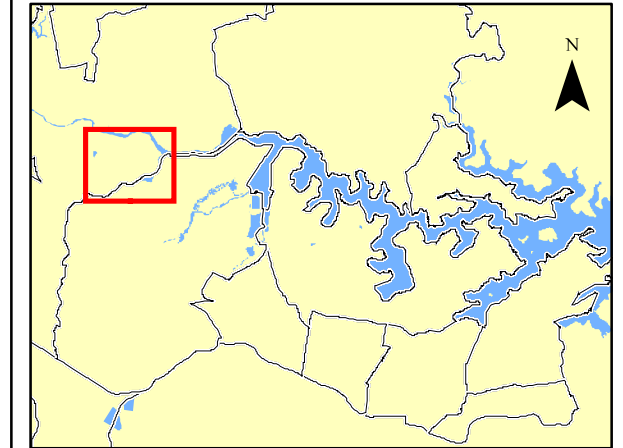


- Facilities
- Stormwater outlets
- Potential GPT site
- Existing GPT
- Stormwater drainage
- Canal
- Foreshore erosion
- Seawall condition
- Excellent
- Good
- Poor
- Failed

Source:
Vegetation base mapping: SMCMA (2007)
Other: refer study section 8.0 (2010)
Coordinate System: GDA94 MGA Zone 56



SITE LOCATION



- Facilities
- Stormwater outlets
- Potential GPT site
- Existing GPT
- Stormwater drainage
- Foreshore erosion
- Seawall condition
 - Excellent
 - Good
 - Poor
 - Failed
- Estuarine mangrove
- Coastal saltmarsh (EEC)
- Swamp-oak floodplain forest (EEC)
- Sydney turpentine-ironbark forest (EEC)
- Coastal sandstone communities
- Foreshore reserves

Source:
Vegetation base mapping: SMCMA (2007)
Other: refer study section 8.0 (2010)
Coordinate System: GDA94 MGA Zone 56

Appendix 6: Field Assessment Sheets for Priority Sites

SITES IN ORDER OF PRIORITY

All assessment sites are detailed within the project GIS database.

ABBREVIATIONS

Level: metres AHD (m)

Co-ords (MGA): Coordinates Map Grid of Australia

E: easting

N: northing

Condition:

Excellent	<ul style="list-style-type: none">• No defects observed• Structure is functioning as intended
Good	<ul style="list-style-type: none">• Minor defects observed• Generally good condition• Structure is functioning as intended
Poor	<ul style="list-style-type: none">• Major defects observed• Structure is at risk of failure without remedial action• Reduced functionality
Failed	<ul style="list-style-type: none">• Major defects observed• Structure is no longer functioning as intended• Structure has collapsed

Seawall Inspection Record - AUB_S02

Date 18/08/09 Locality Homebush Bay Level 0.39m LGA Auburn
 Time 11:27 Tide Low



Co-Ords (MGA)

Start

E 322035
 N 6254594

End

E 321893
 N 6254729

Seawall Details (Slope, Material, Const. Method, Type):

Variable sized rubble and building waste revetment with a new concrete footpath on the crest. A new residential development is located on the land beyond the structure. A public footbridge is located on the structure crest.

Condition Assessment (Slope, Crest, Toe, Backfill):

Material has been lost from slope exposing soil/fill beneath. It appears a support of the footbridge has been undermined.

Excellent
 Good
 Poor
 Failed

X

Assets:

Footbridge and public footpath is supported by revetment which is in poor condition.

Comments:

Photos of structure, AUB_S02-01 to AUB_S02-05.

Photo 1

Apparent undermining of footbridge support.



Photo 2

Loss of material from slope at eastern extent of revetment exposing soil/fill beneath



Seawall Inspection Record

- AUB-S04

Date	31/08/09	Locality	Homebush Bay	Level	0.74m	LGA	Auburn
Time	9:48			Tide	Low-Mid		



Co-Ords (MGA)

Start

E 322171
N 6255135

End

E 322259
N 6255261

Seawall Details (Slope, Material, Const. Method, Type):

Ad-hoc rubble revetment with a soil/fill embankment forming the crest. Private industrial land is located beyond the structure crest. A steel fence is present along the structure crest.

Condition Assessment (Slope, Crest, Toe, Backfill):

The rubble that forms the revetment has become dislodged and is strewn across the toe. There is also a large erosion scarp behind the structure indicating inundation during periods of elevated water levels.

Excellent

Good

Poor

Failed

<input type="checkbox"/>
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Assets

None supported. Public access and the foreshore is fenced from staff at the adjacent industrial land.

Comments:

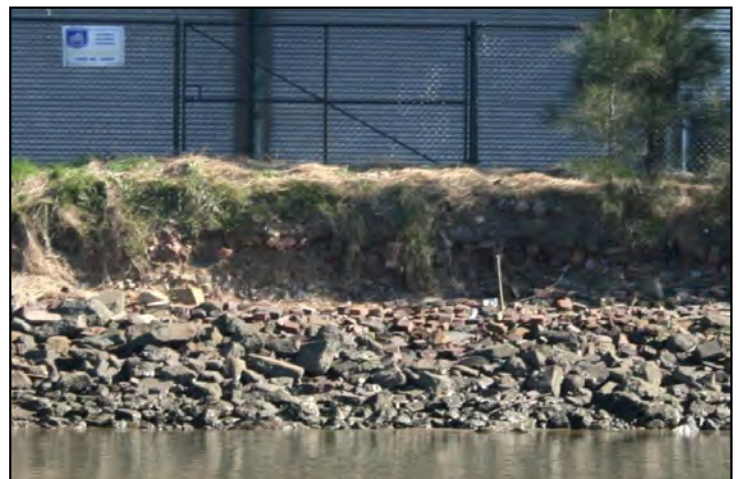
Photos of structure, AUB_S04-01 to AUB_S04-04.

Photo 1

Typical section of revetment.

Photo 2

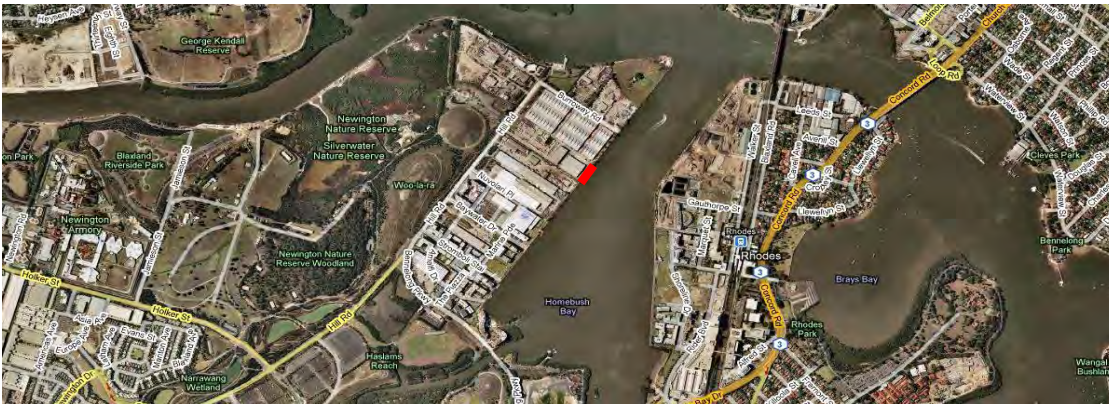
Loss of rubble material and large erosion scarp at the crest.



Seawall Inspection Record

- AUB_S06

Date	<u>31/08/09</u>	Locality	<u>Homebush Bay</u>	Level	<u>0.74m</u>	LGA	<u>Auburn</u>
Time	<u>10:00</u>			Tide	<u>Low-Mid</u>		



Co-Ords (MGA)

Start

E 322302

N 6255325

End

E 322337

N 6255377

Seawall Details (Slope, Material, Const. Method, Type):

Sandstone block revetment with a soil/fill embankment forming the crest. Private industrial land is located beyond the structure crest.

Condition Assessment (Slope, Crest, Toe, Backfill):

The blocks that forms the revetment are slumping and have become dislodged due to a loss of fine material from behind. There is also a large erosion scarp behind the structure indicating inundation during periods of elevated water levels.

Excellent

Good

Poor

Failed

X

Assets

No public access is available. Staff from industrial property can access structure edge.

Comments:

Photos of structure, AUB_S06-01 to AUB_S06-05.

Photo 1

Typical section of revetment.



Photo 2

Slumping of revetment and erosion of bank behind.



Seawall Inspection Record - AUB_S07

Date 31/08/09 Locality Homebush Bay Level 0.74m LGA Auburn
 Time 10:09 Tide Low-Mid



Co-Ords (MGA)

Start
 E 322337
 N 6255377
 End
 E 322454
 N 6255548

Seawall Details (Slope, Material, Const. Method, Type):

Sandstone block revetment with concrete capping on the slope and crest. Private industrial land is located beyond the structure crest.

Condition Assessment (Slope, Crest, Toe, Backfill):

The concrete capping has cracked and failed along the lower section of the wall. The older blocks that forms the revetment are slumping.

Excellent
 Good
 Poor
 Failed

X

Assets

No public access is available. Staff from industrial property can access structure edge.

Comments:

Photos of structure, AUB_S07-01 to AUB_S07-05.

Photo 1

Typical section of revetment.

Photo 2

Cracked and failed concrete capping with older sandstone block revetment visible.



Seawall Inspection Record

- AUB_S08

Date	<u>31/08/09</u>	Locality	<u>Homebush Bay</u>	Level	<u>0.74m</u>	LGA	<u>Auburn</u>
Time	<u>10:13</u>			Tide	<u>Low-Mid</u>		



Co-Ords (MGA)

Start

E 322454

N 6255548

End

E 322472

N 6255573

Seawall Details (Slope, Material, Const. Method, Type):

Small concrete block wall with a sloping concrete crest at the conclusion of Burroway Road. Steel bollards are present along the crest.

Condition Assessment (Slope, Crest, Toe, Backfill):

The sloping concrete crest has cracked and failed in places with large voids observed. The blocks that form the toe of the structure are slumping.

Excellent

Good

Poor

Failed

X

Assets

Public access is available and the structure forms the end of Burroway Road. If the structure is allowed to continue to deteriorate OH&S and asset issues may arise.

Comments:

Photos of structure, AUB_S08-01 to AUB_S08-04.

Photo 1

Typical section of revetment.



Photo 2

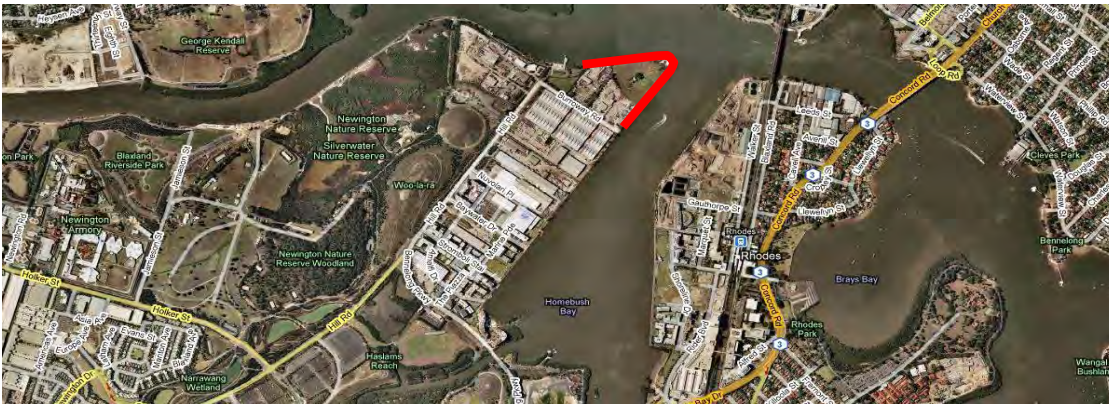
Cracked and failed concrete crest with voids present and slumping of concrete blocks.



Seawall Inspection Record

- AUB_S09

Date	31/08/09	Locality	Wentworth Point, Homebush Bay	Level	0.74m	LGA	Auburn
Time	10:15			Tide	Low-Mid		



Co-Ords (MGA)

Start

E 322472

N 6255573

End

E 322320

N 6255875

Seawall Details (Slope, Material, Const. Method, Type):

Small sandstone block revetment with an earthen bank beyond crest. An undeveloped parcel of land is located beyond the structure and contains a radio tower. A number of abandoned facilities are present at the southern extent of the revetment. Public access is not available.

Condition Assessment (Slope, Crest, Toe, Backfill):

The revetment has failed with material lost from the crest and strewn across the muddy flat in front. A large erosion scarp is present at the crest which increases on the Parramatta River side where it is exposed to ferry wash.

Excellent

Good

Poor

Failed

<input type="checkbox"/>
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<input checked="" type="checkbox"/>

Assets

Public access is not available and the revetment does not support any structures.

Comments:

Photos of structure, AUB_S09-01 to AUB_S09-18.

Photo 1

Typical section of revetment with abandoned facility shown.



Photo 2

Erosion scarp where material has been lost due to exposure to ferry wash.



Canal Inspection Record

- HAS_E07

Date	<u>2/09/09</u>	Locality	<u>Upstream & Downstream of M4</u>	Level	<u>0.77m</u>	LGA	<u>Auburn</u>
Time	<u>14:30</u>			Tide	<u>Low-Mid</u>		



Co-Ords (MGA)

Start

E 319738

N 6253093

End

E 319419

N 6252983

Facility Details (Usage, Material, Const. Method, Type):

Concrete lined canal with concrete bed and sloping concrete panel sides. No public access is available. Industrial warehouses are present beyond the structure.

Condition Assessment:

Minor cracking and weathering of concrete observed. Cracks are particularly evident between concrete panels.
The wall is cracking beneath the eastern abutment of Parramatta Road.

Excellent

Good

Poor

Failed

X

Assets:

The bank supports abutments for two road bridges and is cracking beneath one.

Comments:

Photos of structure are HAS_E07-01 to HAS_E07-09.

Photo 1

Cracking between concrete panels.

Photo 2

Cracks beneath eastern abutment of Parramatta Road.



Canal Inspection Record

- HAS_E06

Date	2/09/09	Tide	Low-Mid	Level	0.77m	LGA
Time	14:35	Locality	Hill Road, Homebush Bay	People	TP/ET	Auburn



Co-Ords (MGA)

Start

E 319939

N 6253109

Facility Details (Usage, Material, Const. Method, Type):

Concrete lined canal with concrete bed and sloping concrete panel sides. No public access is available. Industrial warehouses are present beyond the structure.

Condition Assessment:

Minor cracking and weathering of concrete observed. Cracks are particularly evident between concrete panels.

Excellent

Good

Poor

Failed

X

Assets:

The bank does not support any other structures.

Comments:

Photos of structure are HAS_E06-01 and HAS_E06-02.

Photo 1

Typical section of concrete bank.

Photo 2

Cracks between concrete panels that form canal bank.



Canal Inspection Record

- HAS_E08

Date	<u>2/09/09</u>	Locality	<u>Sydney Olympic Park</u>	Level	<u>0.77m</u>	LGA	<u>Auburn</u>
Time	<u>14:23</u>			Tide	<u>Low-Mid</u>		



Co-Ords (MGA)

Start

E 319419
N 6252983

End

E 319188
N 6252978

Facility Details (Usage, Material, Const. Method, Type):

Concrete lined canal with concrete bed and vertical concrete panel sides. No public access is available.

Condition Assessment:

Minor cracking and weathering of concrete observed. Cracks are particularly evident between concrete panels.

Condition worsens to the south.

Excellent

Good

Poor

Failed

X

Assets:

The bank supports abutments for Parramatta Road however no issues relating to this at present

Comments:

Photos of structure are HAS_E08-01 to HAS_E08-06.

Photo 1

Typical view of concrete canal.

Photo 2

Cracking and weathering of vertical concrete wall between panels.



Canal Inspection Record

- HAS_W05

Date	<u>2/09/09</u>	Locality	<u>Parramatta Road, Lidcombe</u>	Level	<u>0.77m</u>	LGA	<u>Auburn</u>
Time	<u>14:15</u>			Tide	<u>Low-Mid</u>		



Co-Ords (MGA)

Start

E 319188
N 6252978

End

E 319409
N 6252989

Facility Details (Usage, Material, Const. Method, Type):

Concrete lined canal with concrete bed and vertical concrete panel sides. No public access is available.

Condition Assessment:

Minor cracking and weathering of concrete observed. Cracks are particularly evident between concrete panels.
Condition worsens to the south.

Excellent

Good

Poor

Failed

X

Assets:

The bank supports abutments for Parramatta Road

Comments:

Photos of structure are HAS_W05-01 to HAS_W05-04.

Photo 1

Typical view of concrete canal.



Photo 2

Minor cracking and weathering of vertical concrete wall.



- **AUB_F05**

LGA
Auburn



E	<u>322341</u>
N	<u>6255368</u>

Private timber wharf with a set of timber sea stairs supported by timber piles and the adjacent seawall A steel rail is present around the perimeter of the structure. Although private, the facility is accessible to staff from the adjacent industrial property.

X

The piles have failed and the structure may collapse if no action is taken.

Photos of facility, AUB_F05-01 to AUB_F05-08.

View of facility.



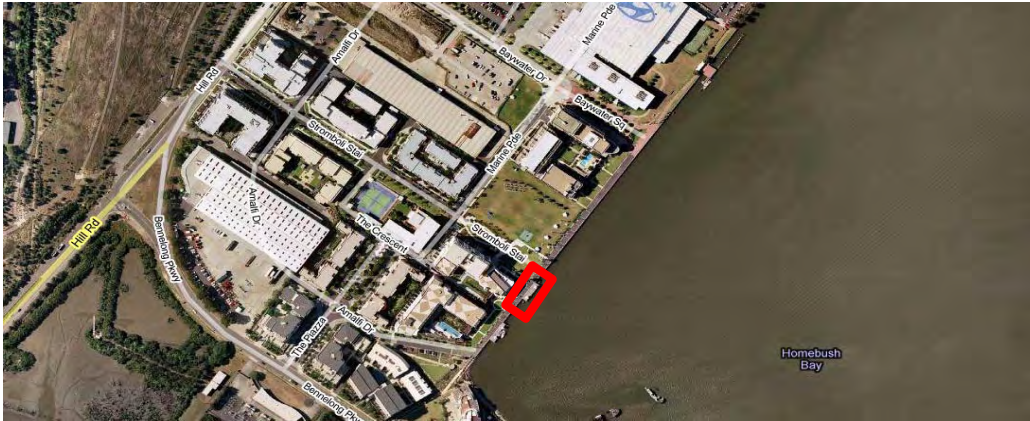
Failed timber piles.



Facility Inspection Record

- AUB_F03

Date	<u>18/08/09</u>	Locality	<u>Homebush Bay</u>	Level	<u>0.39m</u>	LGA	<u>Auburn</u>
Time	<u>11:47</u>			Tide	<u>Low</u>		



Co-Ords (MGA)

Start
 E 321962
 N 6254824

Facility Details (Usage, Material, Const. Method, Type):

Timber landing supported by timber piles and the adjacent seawall, AUB_S05. A low timber rail is present around the perimeter of the structure. The southern most pile has been replaced recently. Large umbrellas for shade have been installed on the structure.

Condition Assessment:

Apart from the new pile at the southern end of the structure, all timber piles have failed at the water line. Other timber components are showing signs of deterioration.

Excellent
 Good
 Poor
 Failed

X

Issues:

The piles have failed and the structure may collapse if no action is taken. Umbrellas and adjacent residential development mean structure is well utilised by the public. The structure edge is well defined by timber rail.

Comments:

Photos of facility, AUB_F03-01 to AUB_F03-07.

Photo 1

View of facility.



Photo 2

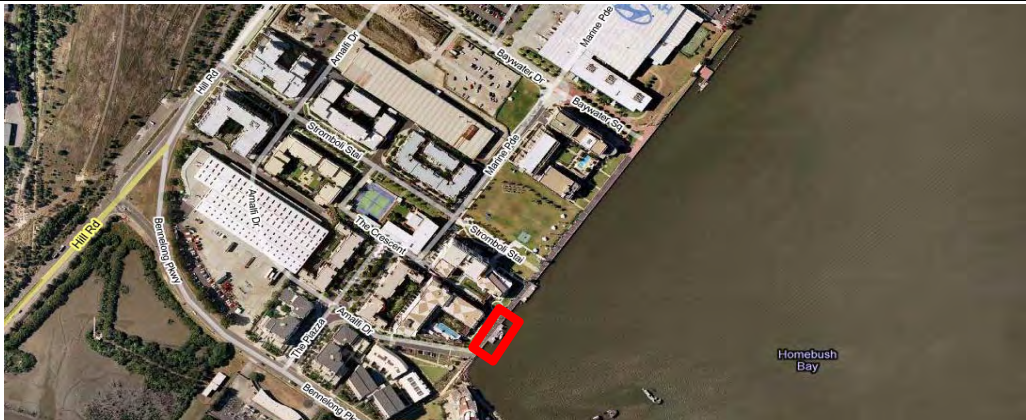
Failure of timber piles at the water line.



Facility Inspection Record

- AUB_F02

Date	<u>18/08/09</u>	Locality	<u>Homebush Bay</u>	Level	<u>0.39m</u>	LGA	<u>Auburn</u>
Time	<u>11:41</u>			Tide	<u>Low</u>		



Co-Ords (MGA)

Start
E 321929
N 6254774

Facility Details (Usage, Material, Const. Method, Type):

Timber landing with three levels of timber sea stairs. The structure is supported by timber piles and the adjacent seawall, AUB_S05. A low timber rail is present around the perimeter of the structure. The bed around the structure is exposed at low tide. Two large shade umbrellas have been installed on the structure.

Condition Assessment:

Timber piles are severely deteriorated at the water line. Other timber components are showing signs of deterioration. A number of timber stairs have been replaced.

Excellent
Good
Poor
Failed

X

Issues:

The piles are in poor condition and may fail if not replaced. Access to structure from the water is difficult at low tide. Umbrellas and adjacent residential development mean structure is well utilised by the public. The structure edge is well defined by timber rail.

Comments:

Photos of facility, AUB_F02-01 to AUB_F02-04.

Photo 1

View of facility.

Photo 2

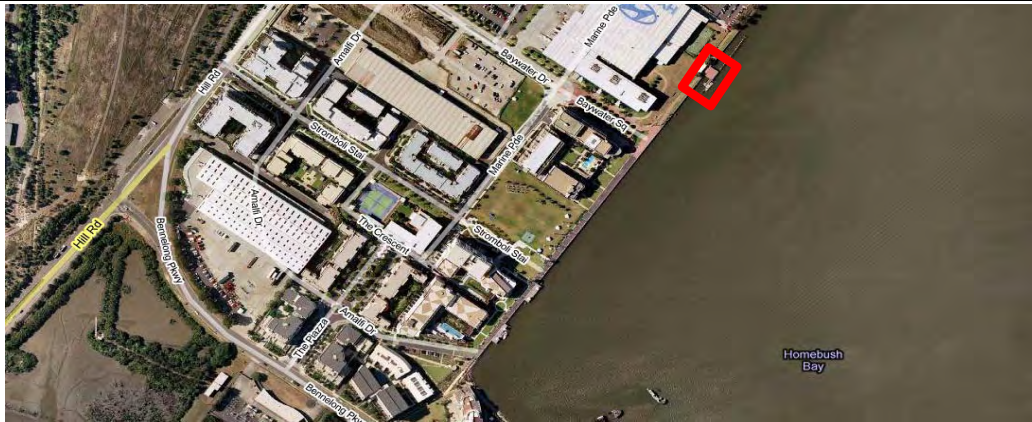
Severe deterioration of timber piles at the water line.



Facility Inspection Record

- AUB_F04

Date	<u>18/08/09</u>	Locality	<u>Homebush Bay</u>	Level	<u>0.39m</u>	LGA	<u>Auburn</u>
Time	<u>11:54</u>			Tide	<u>Low</u>		



Co-Ords (MGA)

Start
E 322143
N 6255084

Facility Details (Usage, Material, Const. Method, Type):

Timber landing supported by timber piles and the adjacent seawall, AUB_S05. Deck is constructed from concrete panels and timber slats. Two large umbrellas have been installed on the structure for shade. A steel ladder provides access to the water. A fenced private gangway and floating pontoon are accessed from the structure.

Condition Assessment:

Timber piles and other components are showing signs of deterioration.

Excellent
Good
Poor
Failed

X

Issues:

Although not as urgent as the two other facilities at this location (AUB_F03 & AUB_F04), the piles are in poor condition and may fail if not replaced. Umbrellas and adjacent residential development mean structure is well utilised by the public. The structure edge is not defined.

Comments:

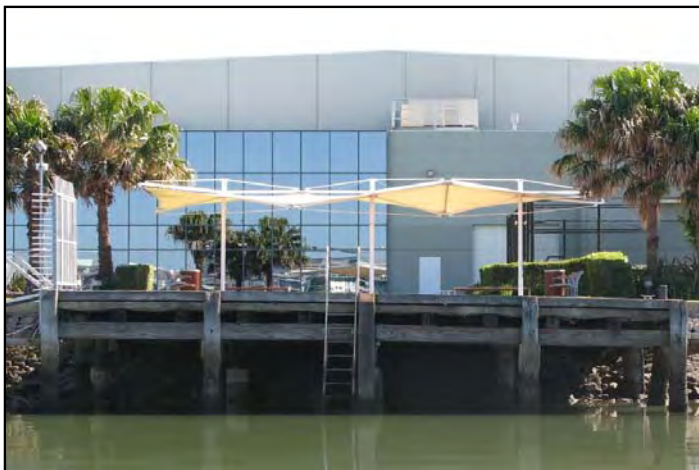
Photos of facility, AUB_F04-01 to AUB_F04-05.

Photo 1

View of facility.

Photo 2

Deterioration of timber piles and other components.



Facility Inspection Record

- AUB_F07

Date

19/08/09

Locality

North West of Homebush Ferry Wharf

Level

0.71m

LGA

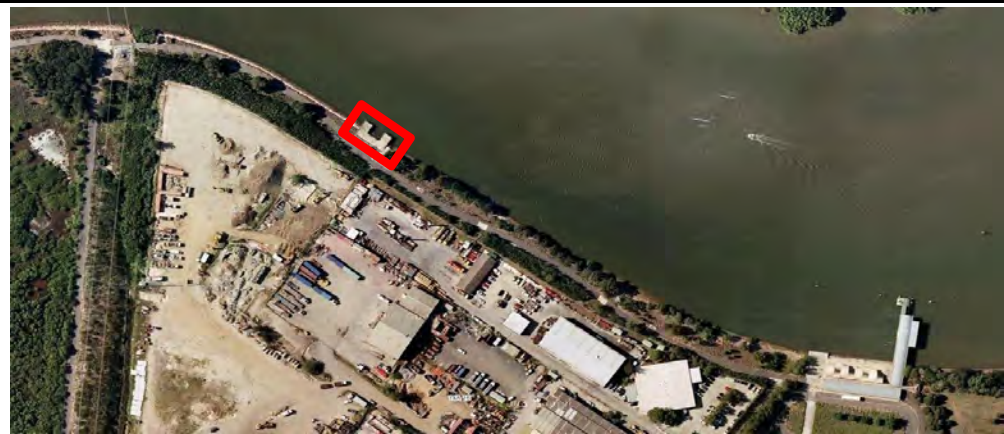
Auburn

Time

14:25

Tide

Low-Mid



Co-Ords (MGA)

Start
E 321914
N 6256020

Facility Details (Usage, Material, Const. Method, Type):
Concrete landing supported by concrete piles north west of Homebush Ferry Wharf. The structure is fenced off from the adjacent footpath/cycleway. Old timber fender piles are present in front of the structure.

Condition Assessment:
The structure appears condemned/abandoned with severe corrosion of concrete beams beneath landing exposing reinforcement.

Excellent
Good
Poor
Failed

☐
☐
☐
☒

Issues
Fenced off to public access. The structure does not support any other assets.

Comments:
Photos of facility, AUB_F07-01 to AUB_F07-03.

Photo 1
View of facility.

Photo 2
Corrosion of concrete beam exposing reinforcement.



Natural Shoreline Inspection Record

- AUB_NS01

Date	20/08/09	Locality	Duck River Eastern Bank	Level	0.67m	LGA	Auburn
Time	15:51			Tide	Low-Mid		



Co-Ords (MGA)

Start

E 319562
N 6255574

End

E 319251
N 6255134

Details (Vegetation, Slope, Toe):

Muddy shoreline vegetated with mangroves from confluence with Parramatta River to industrial dock on eastern bank of Duck River. The area is exposed to vessel wash at the confluence. A public park is located beyond the mangroves at the confluence.

Condition Assessment:

Erosion observed with undermining and loss of fine material from pneumatophores due to exposure to vessel wash. The condition of the shoreline improves upstream of the confluence in the Duck River.

Excellent
Good
Poor
Failed

X

Issues:

No major issues relating to this location at present, public access is available from Silverwater Park.

Comments:

Photos of foreshore AUB_NS01-01 to AUB_NS01-16.

Photo 1

Loss of fine material and undermining of mangroves.



Photo 2

Ferry wash at Duck and Parramatta Rivers confluence.

