

Seawall Inspection Record - LEI_S08

Date	<u>4/08/09</u>	Locality	<u>Rozelle, Iron Cove Bay</u>	Level (AHD)	<u>0.82m</u>	LGA	<u>Leichhardt</u>
Time	<u>13:35</u>			Tide	<u>Low-Mid</u>		



Co-Ords (MGA)

Start

E 330552

N 6252044

End

E 330147

N 6251829

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

The seawall comprises a vertical grouted large sandstone block seawall, crest was 2m above WL at time of insp. Numerous sections along the wall have been capped with concrete along the crest and face. A number of sections have newly installed, grouted medium size sandstone blocks near the crest associated with developments along foreshore. Old sandstone blocks are present at the toe of the wall at discrete locations.

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

Exposed old sandstone blocks along bottom of wall are slumping. Concrete capping is showing signs of surface weathering and has in many places begun to crack and has fallen away from the old sandstone wall. Major undermining is present at discrete locations.

Excellent

Good

Poor

Failed

X

Assets

A chain safety fence runs along the entire length of the structure preventing access to water and differentiating the wall edge. The old Balmain Power Station Pump House 'A' building is located directly above the seawall.

Comments:

Beneath the Iron Cove Bridge there is a small section of grout mattress. Construction adjacent to the mattress prevented a detailed inspection however it appeared to be in good condition.

Photo 1

Northern part of wall showing slumping of old sandstone blocks and new blocks along crest.



Photo 2

Undermining of seawall and concrete capping of wall face and crest.



Seawall Inspection Record - LEI_S09

Date	<u>4/08/09</u>	Locality	<u>Rozelle (King George Park), Iron Cove Bay</u>	Level	<u>0.82m</u>	LGA	<u>Leichhardt</u>
Time	<u>14:03</u>			People	<u>Low-Mid</u>		



Co-Ords (MGA)

Start

E	<u>330094</u>
N	<u>6251783</u>

End

E	<u>330072</u>
N	<u>6251755</u>

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

Vertical concrete seawall with a cement capping. The crest was approx. 1.5m above the water level at time of inspection. The wall appears to be founded on bedrock. A safety fence and public footpath run along the crest of the wall.

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

Concrete has been lost from the vertical face of the wall. The concrete is showing signs of severe surface weathering with aggregates visible. Major horizontal and vertical cracks are also present. The safety fence has significantly corroded and has collapsed in some places.

Excellent	<input type="checkbox"/>
Good	<input type="checkbox"/>
Poor	<input checked="" type="checkbox"/>
Failed	<input type="checkbox"/>

Assets

The safety fence is present for only half the length of the wall. No major assets are located on or near the seawall.

Comments:

During the inspection public access to the parkland beyond this structure was being blocked by workers from the adjacent construction site. It is unclear whether this was a discrete event. Photos LEI_S09-01 to LEI_S09-03.

Photo 1

View of NE extent of wall showing weathering and cracking of concrete. No safety fence present.



Photo 2

SW extent of seawall showing concrete cracking and failure of safety fence.



Seawall Inspection Record - LEI_S11

Date	<u>31/08/09</u>	Locality	<u>Callan Park, Iron Cove Bay</u>	Level	<u>0.87m</u>	LGA
Time	<u>8:27</u>			Tide	<u>Mid</u>	<u>Leichhardt</u>



Co-Ords (MGA)

Start

E	<u>329758</u>
N	<u>6251610</u>

End

E	<u>329699</u>
N	<u>6251506</u>

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

Medium sized concrete block revetment founded on bedrock. Rubble material is present at the toe. An abandoned sandstone block structure is located at the north extent of the structure.

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

The structure has failed at its northern extent with a large cavity present behind the wall. The rest of the revetment is slumping and is undermined at the toe particularly at the southern extent.

Excellent	<input type="checkbox"/>
Good	<input type="checkbox"/>
Poor	<input type="checkbox"/>
Failed	<input checked="" type="checkbox"/>

Assets:

The revetment is accessible to the public via a footpath which runs along its length. The blocks are collapsing and slippery. No other structures are supported by the revetment.

Comments:

Photos LEI_S11-01 to LEI_S11-08.

Photo 1

Failure of revetment at northern extent.

Photo 2

Slumping and movement of blocks at southern extent.



Seawall Inspection Record - LEI_S13

Date 31/08/09 Locality Callan Park, Iron Cove Bay Level 0.87m LGA Leichhardt
Time 8:34 Tide Mid



Co-Ords (MGA)

Start

E 329722
N 6251462

End

E 329712
N 6251407

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

Medium concrete block revetment, the crest was approx. 1.5m above the water level at time of inspection.

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

Surface weathering with aggregate exposed and slumping due to loss of fine material was observed. Sinkholes and erosion of earth behind structure was observed indicating inundation and/or exposure to wash during periods of elevated water levels.

Excellent
Good
Poor
Failed

X

Assets

The seawall is accessible to the public via a footpath which runs along its length. The crest is collapsing into the void behind. No other structures are supported by the seawall.

Comments:

Photos LEI_S13-01 to LEI_S13-03.

Photo 1

Typical view of revetment.



Photo 2

Surface weathering and slumping of concrete blocks and erosion of earth beyond crest.



Seawall Inspection Record - LEI_S14

Date 31/08/09 Locality Callan Park, Iron Cove bay Level 0.87m LGA Leichhardt
Time 8:36 Tide Mid



Co-Ords (MGA)

Start

E 329712
N 6251407

End

E 329554
N 6251298

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

Medium sandstone block revetment, the crest was 1.5m above water level at time of inspection. A number of blocks have been replaced with medium sized concrete blocks. The crest has a concrete capping. An open stormwater outlet channel is located mid-way along the revetment.

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

The revetment has failed at its southern extent where it joins LEI_S15 with a large cavity present behind the wall.
Surface weathering of sandstone blocks & slumping due to loss of fine material was also observed. Sinkholes & erosion of earth behind structure indicates inundation and/or exposure to wash during periods of elevated water levels.

Excellent
Good
Poor
Failed

X

Assets

The revetment is accessible to the public via a footpath which runs along its length. The structure makes up the opening of the open storm water outlet.

Comments:

Photos LEI_S14-01 to LEI_S14-10.

Photo 1

Typical view of revetment showing surface weathering, slumping and erosion of earth beyond crest.



Photo 2

Failure of structure at southern extent.



Seawall Inspection Record - LEI_S15

Date 31/08/09 Locality Callan Park, Iron Cove Bay Level 0.87m LGA Leichhardt
Time 8:39 Tide Mid



Co-Ords (MGA)

Start

E 329554
N 6251298

End

E 329351
N 6251178

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

Medium sandstone block revetment with a disused concrete footpath along the crest. A vertical concrete retaining wall with drainage has been installed along the crest to increase the height of the structure. A number of blocks have been replaced with medium sized concrete blocks.

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

The structure has failed at its northern extent where it meets seawall LEI_S14. The rest of the structure, surface weathering of sandstone blocks & slumping due to loss of fine material was observed. The concrete retaining wall is leaning towards the water in some places with minor cracking observed.

Excellent
Good
Poor
Failed

X

Assets

The revetment is accessible to the public via a footpath which runs along its length. No other structure are supported by the seawall.

Comments:

Photos LEI_S15-01 to LEI_S15-14.

Photo 1

Failure of structure at northern extent.



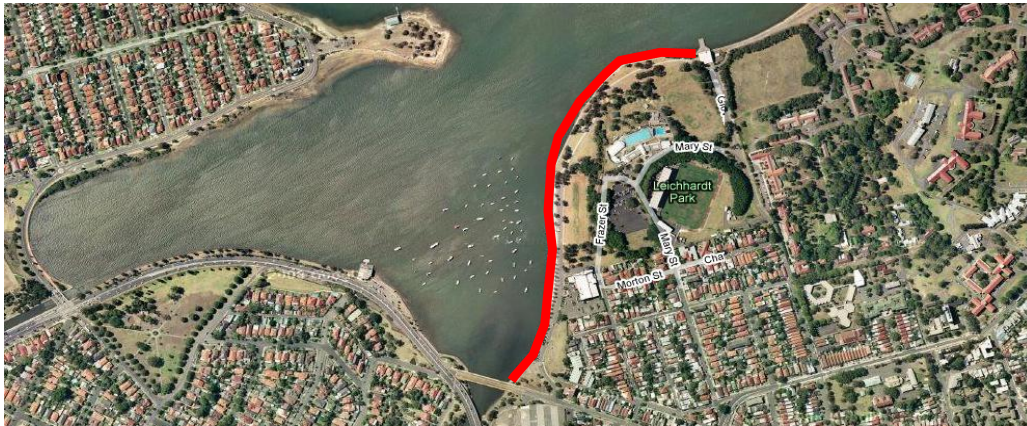
Photo 2

Typical view of structure showing weathering and slumping of sandstone blocks and leaning concrete retaining wall.



Seawall Inspection Record - LEI_S16

Date	<u>31/07/09</u>	Locality	<u>Lilyfield (Leichhardt Park), Iron Cove Bay</u>	Level	<u>0.64m</u>	LGA
Time	<u>9:26</u>			Tide	<u>Low</u>	<u>Leichhardt</u>



Co-Ords (MGA)

Start

E	<u>329324</u>
N	<u>6251171</u>

End

E	<u>328979</u>
N	<u>6250476</u>

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

Medium size sandstone block grouted revetment with old concrete footpath crest backed by a newer vertical medium size grouted sandstone block wall 1m high. Sandstone sea stairs are present mid-way along the structure.

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

Loss of grout from both sloping and vertical sections. Block failures and sever undermining of adjacent footpath are also present. The newer vertical sandstone blocks have began to weather indicating that a low-grade sandstone may have been used. The old concrete footpath between the two sandstone section is cracking in many places.

Excellent

Good

Poor

Failed

X

Assets

Use of the old footpath along the crest of the sloping sandstone wall was observed. Failures beneath footpath were observed. No major assets are located along the seawall.

Comments:

Localised failures are at (0329059,6250716). Photos LEI_S16-01 to LEI_S16-15.

Photo 1

Typical view of revetment and wall.



Photo 2

Block failure of newer vertical sandstone wall beneath footpath.



Seawall Inspection Record - LEI_S01

Date	<u>31/07/09</u>	Locality	<u>Birchgrove, River South</u>	Level	<u>0.75m</u>	LGA	<u>LGA</u>
Time	<u>8:25</u>			Tide	<u>Low-Mid</u>		<u>Leichhardt</u>



Co-Ords (MGA)

Start

E	<u>332146</u>
N	<u>6253315</u>

End

E	<u>332237</u>
N	<u>6253340</u>

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

Vertical seawall with large grouted sandstone blocks. The crest was approx. 2.5m above the water level at time of inspection with newer concrete capping. Seawall appears to be founded on rock.

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

Large crack at SW corner extending from crest to toe. Large sinkhole behind seawall crest at NE corner.
Surface weathering of sandstone blocks and concrete capping with aggregate exposed also observed.

Excellent
Good
Poor
Failed

X

Assets

No pedestrian safety barrier along crest of seawall. A timber lookout structure extends over the wall and water mid-way along seawall.

Comments:

Timber lookout structure inspection record provided in LEI_F01. An old disused boat ramp is at the site between LEI_S01 and LEI_S02 which is accessible to the public. Photos LEI_S01-01 to LEI_S01-10.

Photo 1

Block failure at SW corner



Photo 2

NE corner, temporary safety fence installed beyond crest to prevent public access to sinkhole.



Seawall Inspection Record - LEI_S12

Date 31/08/09 Locality Callan Park, Iron Cove Bay Level 0.87m LGA Leichhardt
Time 8:30 Tide Mid



Co-Ords (MGA)

Start

E 329699
N 6251506

End

E 329722
N 6251462

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

Large sandstone block vertical seawall founded on bedrock. The crest was approx. 1.5m above the water level at time of inspection.

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

The structure has failed at its northern and southern extents with the blocks that make up the crest dislodged and erosion of material from behind. The rest of the revetment is slumping and is undermined at the toe.

Excellent
Good
Poor
Failed

X

Assets

The seawall is accessible to the public via a footpath which runs along its length. No other structures are supported by the seawall.

Comments:

Photos LEI_S12-01 to LEI_S12-09.

Photo 1

Failure of seawall at northern extent.

Photo 2

Failure of seawall at southern extent.



Facility Inspection Record

- LEI_F10

Date	<u>1/09/09</u>	Locality	<u>Adj. City West Link</u>	Level	<u>0.87m</u>	LGA	<u>Leichhardt</u>
Time	<u>9:02</u>			Tide	<u>Mid</u>		



Co-Ords (MGA)

Start

E 328935

N 6250395

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

Concrete two lane boat ramp. No formal trailer parking is provided. Boat ramp is adjacent to seawall LEI_S17.

Condition Assessment:

Concrete that forms ramp is cracked and weathered with aggregates and steel reinforcement exposed.

Excellent

Good

Poor

Failed

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

Issues

Water is very shallow making launching/retrieval difficult. A large amount of debris was also observed on the ramp.

Comments:

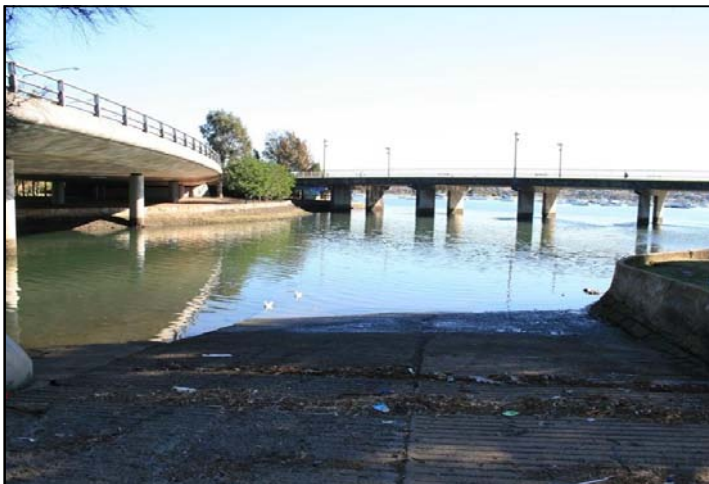
Adjacent seawall (LEI_S17) and Hawthorne Canal are in poor condition.

Photo 1

View of boat ramp.

Photo 2

Weathering of concrete with aggregate and reinforcement exposed.



Facility Inspection Record - LEI_F01

Date	31/07/09	Locality	Birchgrove Point	Level	0.64m	LGA
Time	9:00			Tide	Low	Leichhardt



Co-Ords (MGA)

Start

E 332219
N 6253319

Facility Details (Usage, Material, Const. Method, Type):
 Two level, timber, lookout structure. Upper landing is supported by timber piles on the land and in water, lower landing is supported by seawall and timber piles in water. Access is from adjacent public park via timber stairs which also connect the two landing. Both landings have timber safety rails.

Condition Assessment: Stairs on land have collapsed and require replacement. The rest of the structure including timber piles is in a good condition	Excellent Good Poor Failed	<input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
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Issues:
 Collapsed stairs are a hazard for pedestrians. Structure is supported by vertical sandstone seawall (LEI_S01).

Comments:
 Photos LEI_F01-01 to LEI_F01-03

Photo 1

View of structure.

Photo 2

Collapsed stairs.



Facility Inspection Record - LEI_F02

Date	<u>4/08/09</u>	Locality	<u>Birchgrove , at the end of Cove St</u>	Level	<u>0.71m</u>	LGA	<u>Leichhardt</u>
Time	<u>11:35</u>			Tide	<u>Low-Mid</u>		



Co-Ords (MGA)

Start

E 331470
N 6252920

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

Timber wharf with sea stairs supported by timber piles and medium block vertical sandstone seawall which extends to the south. The crest was approx. 2.5m above the water level at time of inspection. A vertical concrete seawall extends 50m to the north. A small public park accessible from Cove St. has a number of dinghies tethered to a formal steel storage structure and others informally tethered to signs and trees

Condition Assessment:

Generally good. Timber piles are thinning and are off vertical. Grout is missing from blocks beneath wharf and are slumping. Sandstone has also weathered creating voids. Some maintenance has been carried out to the south of the wharf with sandstone blocks replaced and grout added. Concrete section to the north is in good condition.

Excellent
Good
Poor
Failed

X

Issues:

Stairs were approx. 1m above water level at time of inspection and are fouled making access to water difficult.
No public safety barrier along crest of seawall.

Comments:

Photos LEI_F02-01 to LEI_F02-04

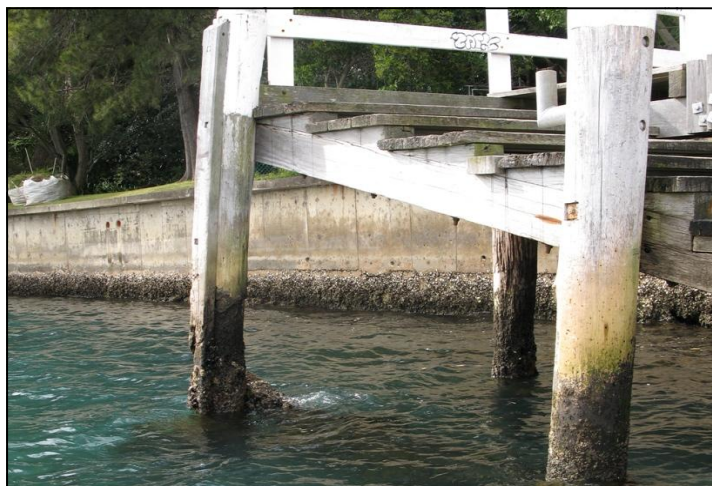
Photo 1

Timber wharf facility showing dinghy storage at public park and vertical sandstone seawall



Photo 2

Timber sea stairs and pile. Vertical concrete seawall is also shown in background



Facility Inspection Record - LEI_F03

Date 4/08/09 Locality Birchgrove , adj. to Dawn Fraser Baths Level 0.53m LGA Leichhardt
 Time 12:10 Tide Low



Co-Ords (MGA)

Start

E 331149
 N 6252630

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

Formal dinghy storage comprising of steel rack which dinghies are tethered too. Some dinghies are informally tethered to side of rack.

Timber and steel steps from Punch St have recently been constructed. Landscaping has also recently been completed.

A small beach to the NE provides access to water at low tide

Condition Assessment:

Steel rack is in good condition

Excellent

Good

Poor

Failed

X

Issues:

No formal access to beach is provided for launching dinghies. At high tide dinghies must be launched from rocks.

Comments:

Vegetation clearing has recently been undertaken and it is likely that further landscaping will take place in the future

Photos LEI_F03-01 to LEI_F03-04

Photo 1

Storage rack and access from street. Dinghies are launched from adjacent beach

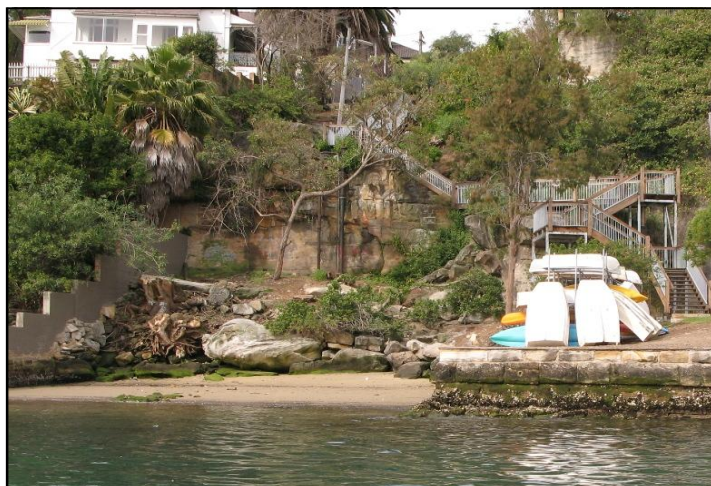


Photo 2

Access to beach



Facility Inspection Record - LEI_F06

Date	<u>4/08/09</u>	Locality	<u>Balmain High School off Longview St</u>	Level	<u>0.53m</u>	LGA	<u>Leichhardt</u>
Time	<u>12:50</u>			Tide	<u>Low</u>		



Co-Ords (MGA)

Start

E 330652
N 6252171

Facility Details (Usage, Material, Const. Method, Type):
Informal dinghy storage, unclear whether land is public or private.

Condition Assessment:	Excellent	<input type="checkbox"/>
<u>Dinghies are tethered to a steel fence which is in a good condition.</u>	Good	<input checked="" type="checkbox"/>
	Poor	<input type="checkbox"/>
	Failed	<input type="checkbox"/>

Issues:

No formal access to the water, dinghies must be launched by climbing down a vertical sandstone seawall.

Comments:

Photos LEI_F06-01 and LEI_F06-02

Photo 1

View of informal storage facility.

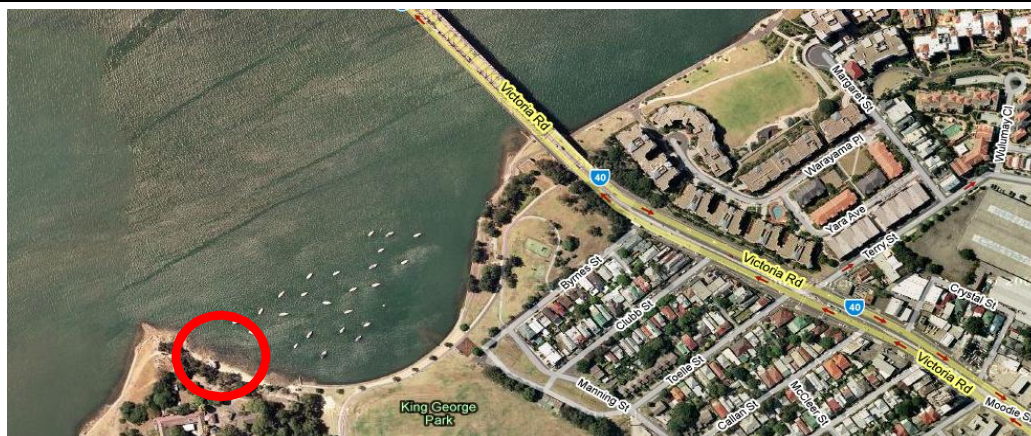
Photo 2

Dinghies tethered to steel fence.



Facility Inspection Record - LEI_F07

Date 4/08/09 Locality King George Park south of Iron Cove Bridge Level 0.82m LGA Leichhardt
Time 14:10 Tide Low-Mid



Co-Ords (MGA)

Start

E 329833

N 6251568

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

Informal dinghy storage with dinghies tethered to trees along natural rocky/sandy natural shoreline.

Condition Assessment:

No formal storage structure present.

Excellent

Good

Poor

Failed

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Issues:

Dinghies are launched from rocky/sandy shoreline.

Comments:

Photo LEI_F07-01.

Photo 1

View of informal storage facility.

Photo 2

Dinghies tethered to trees on shoreline.

