

Table C – Location of the overflow outlets and GPT observed during the field work

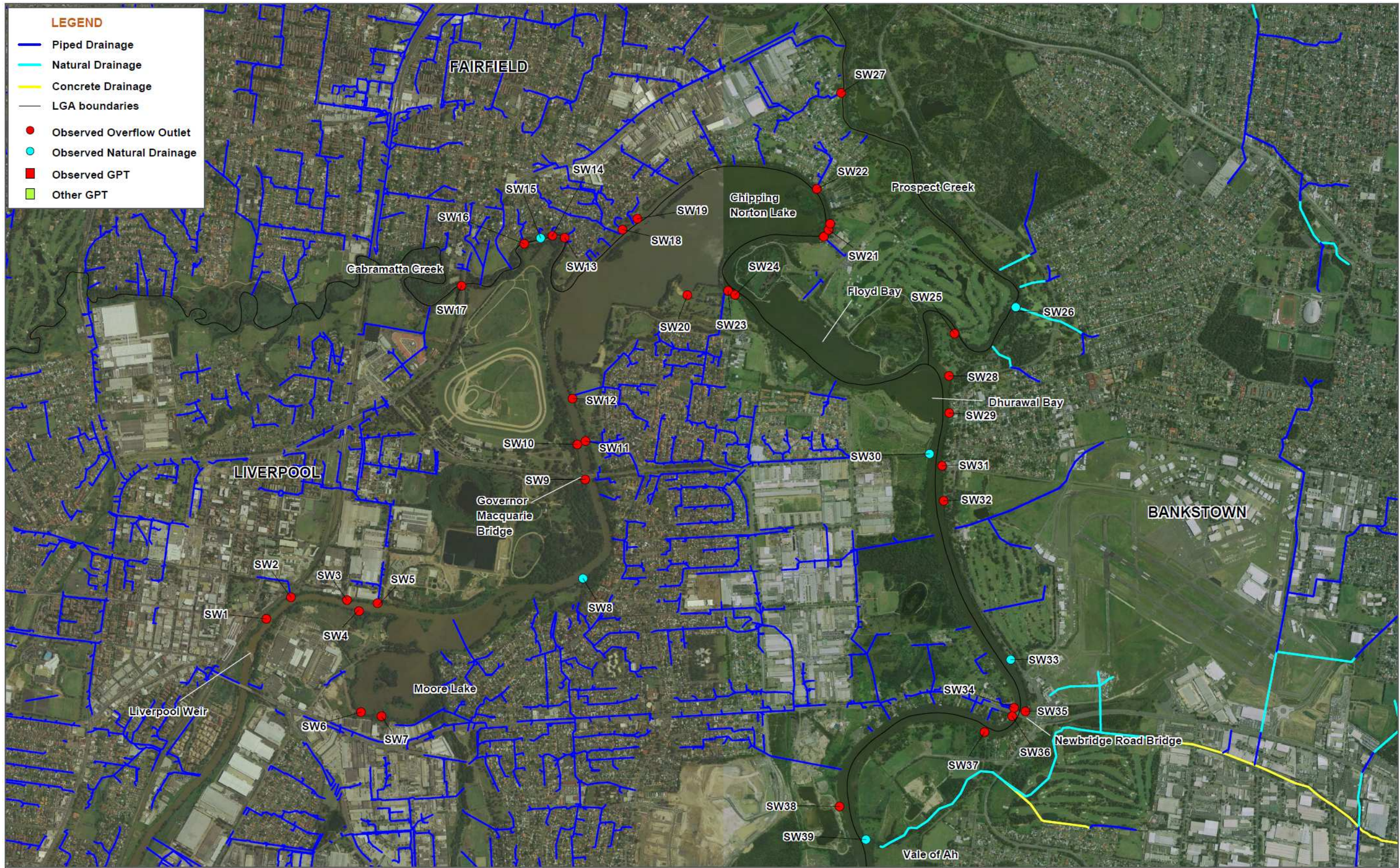
Location	LGA	Condition	Details	Comments
SW1. Along the railway between Liverpool Weir and the bend of the river	Liverpool	Good	Large concrete pipe of around 1m of diameter with smaller pipe of around 30-40cm of diameter	Good rock protection along the whole height of the bank around the pipes Pipe located in the upper half of the bank Flow reduction system below the pipe
SW2. Outside of the bend along the railway	Liverpool	Good	Large concrete block with some concrete stairway on its eastern side Opening of around 1m of diameter	Plunging orientation of the pipe Stairway eroded and cracked Trees falling into the water around the asset
SW3. Between the bend of the river and Haigh Park on the northern bank	Liverpool	Good	Large concrete block surrounded by small dumped rocks Opening of around 1m of diameter	Undercutting occurring around the asset
SW4. Along northern side of Haigh Park	Liverpool	Fair	Concrete overflow outlet with concrete protection and block Square opening with side length of around 30-40cm	Block lightly eroded and some trees fell on it
SW5. Opposite northern side of Haigh Park	Liverpool	N/A	Possible overflow outlet within discontinuity of the river vegetation	Covered with vegetation
SW6. Southern west of Moore Lake	Liverpool	Good	Large concrete pipe of around 1m of diameter	Protected by large rocks
SW7. South of Moore Lake	Liverpool	Fair	Small green plastic pipe around 20cm of diameter	Around 1m above the water level
SW8. East of Chauvel Park	Liverpool	N/A	Natural entrance	Erosion visible at the entrance Trees fell within the entrance
SW9. Under Governor Macquarie Drive Bridge	Liverpool	Good	Small pipe of around 30cm of diameter	Stormwater evacuation from the bridge Erosion on southern side and dumped concrete blocks on the northern side
SW10. Southern end of Warwick Farm	Liverpool	Poor	Concrete pipe of around 50-60cm of diameter	Almost filled up by sand Trees fell around the pipe Need maintenance
SW11. Southern end of South Park	Liverpool	Poor	Destroyed concrete pipe of around 50-60cm of diameter	Need to be replaced as totally dismantled
SW12. West of South Park	Liverpool	Good	Large concrete pipe of around 1m of diameter	Protected by several layers of gabion wall Significant erosion on southern side
SW13. Cabramatta Creek, outside of the 2 nd bend of the creek near Cherrybrook Road and Silverwater Crescent intersection	Fairfield	Poor	Concrete pipe of around 50cm of diameter with concrete protection	Pipe at the top of the bank Asset generated severe erosion in front of it Almost no more sand to support the concrete protection
SW14. Cabramatta Creek, near Cherrybrook Rd and Araluen Rd intersection	Fairfield	Poor	Concrete pipe of around 50cm of diameter with concrete protection	Pipe at the top of the bank Asset generated a gully in front of it
SW15. Cabramatta Creek, west of Cherrybrook	Fairfield	N/A	Natural entrance	Some trees fell within the entrance

Location	LGA	Condition	Details	Comments
Rd and Araluen Rd intersection				
SW16.Cabramatta Creek outside of the 3 rd bend of the creek	Fairfield	Poor	Large concrete block	Exit almost invisible as totally filled up by dust and sand
SW17.Cabramatta Creek under the Railway Parade Bridge	Liverpool	Fair	Two small concrete pipes	Road water evacuation
SW18.Along Hoy Park in front of the playground	Fairfield	Poor	Concrete pipe of around 40-50cm of diameter	Covered with weeds Couple of small rocks dumped around the pipe
SW19.Close to Howards Boat Ramp	Fairfield	Poor	Concrete pipe of around 40 cm of diameter with concrete protection	Undercutting all around Asset facing a tree
SW20.Eastern end of Grand Flaneur Beach	Liverpool	Fair	Concrete pipe of around 30-40 cm of diameter with concrete protection	Asset at the back of the small beach Pipe behind protection is exposed
SW21.Opposite Wildlife Island, east of the Wharf	Fairfield	Poor	Three small pipes of around 20cm of diameter One every 40m along the eastern bank of the channel from the wharf	Diverse material (concrete, plastic) Pipes out of the rock seawall
SW22.Opposite the northern end of Wildlife Island	Fairfield	Fair	Concrete pipe of around 80cm of diameter	Pipe out of the seawall
SW23.Directly south of Long Point	Liverpool	Fair	Concrete pipe of around 30cm of diameter with concrete protection	Pipe at the top of the bank Severe erosion visible on both side of the asset and almost no more sand to support the concrete protection
SW24.Around 50m downstream of the previous asset	Liverpool	Good	Large concrete block Pipe opening of around 100-120cm of diameter	Destroyed gabion protection on both side of the block Severe erosion west of the block
SW25.Eastern side of Beatty Reserve	Bankstown	Good	Large concrete pipe of around 80cm of diameter	Surrounded by vegetation
SW26.Prospect Creek, opposite the south-eastern side of Liverpool Golf Club	Bankstown	N/A	Natural entrance	Bridge over the entrance and vegetation in front of the entrance
SW27.Prospect Creek, south of Day Street end	Fairfield	Good	Large concrete pipe of around 1m of diameter with concrete protection and closable	Pipe closed at the time of the site visit
SW28.Southern end of Beatty Reserve	Bankstown	Fair	Concrete pipe of around 40cm of diameter with large concrete support	Concrete support is cracked
SW29.Eastern bank opposite the Lawrence Beach Groyne	Bankstown	Good	Concrete pipe of around 40 cm of diameter with concrete protection	Out of a concrete block seawall
SW30.South-eastern end of Heron Park	Liverpool	Good	Natural entrance covered with rocks	Covered with rocks and vegetation
SW31.North of the boat ramp at the northern end of Georges River Golf Course	Bankstown	Poor	Pipe of around 30cm of diameter	Protected by rocks and dumped concrete blocks
SW32.Southern end of the seawall along the	Bankstown	Good	Concrete pipe of around 20-30cm of diameter with concrete protection	Out of a environmentally friendly seawall

Location	LGA	Condition	Details	Comments
northern end of Georges River Golf Course				
SW33.Upstream of Perimeter Rd near Newbridge Road Bridge	Bankstown	N/A	Natural entrance	
SW34.North of the western end of Newbridge Road Bridge	Liverpool	Poor	Concrete block with opening of round 30cm of diameter	Concrete block covered with weeds and moved
SW35.Under Newbridge Road Bridge , eastern end	Bankstown	Good	Concrete pipe of around 30-40cm	Out of seawall
SW36.South of the western end of Newbridge Road Bridge	Liverpool	Fair	Concrete pipe of around 30cm of diameter	Pipe out of eroding bank
SW37.Opposite Hind Park	Bankstown	Poor	Remnant of a brick block with an opening of around 80cm of diameter	Block totally destroyed
SW38.Along the recycling station north west of Vale Of Ah	Liverpool	Poor	Pipe of the recycling station of around 30-40cm	Rusty pipe Plunging into the river
SW39.Opposite the southern end of the recycling station	Bankstown	N/A	Natural entrance	Surrounded by mangroves
SW40.Opposite Williams Creek mouth	Bankstown	Poor	Three small pipes of around 20cm of diameter	Out of a damaged concrete wall
SW41.Williams Creek near the Sewage Treatment Plant	Liverpool	Poor	Two concrete pipes of around 60cm of diameter	Old pipes from the sewage treatment plant
SW42.Inside of the bend east of Williams Creek	Bankstown	N/A	Natural entrance	Surrounded by vegetation
SW43.Around 200m further east from the previous asset along the northern bank	Bankstown	N/A	Natural entrance	Bridge crossing the entrance
SW44.Southern end of Kelso Creek	Bankstown	Good	Four larges closable concrete pipes of around 120cm of diameter	Pipes opened at the time of the site visit
SW45.East of Sinus Road Bridge	Bankstown	Good	Concrete closable pipe of around 80cm of diameter with concrete protection	Pipe covered with water and closed at the time of the site visit
SW46.Directly west of the Monash Reserve	Bankstown	N/A	Natural entrance	Surrounded by mangroves
SW47.Opposite Monash Reserve	Liverpool	Fair	Bricks block with opening of around 30cm of diameter	Asset almost totally submerged by water
SW48.Eastern half of Pleasure Point	Liverpool	Fair	Concrete pipe of around 30cm of diameter with concrete protection	Asset almost totally submerged by water Asset surrounded by erosion
SW49.Eastern end of Pleasure Point	Liverpool	Fair	Small pipe of around 10-20cm of diameter	Private pipe
SW50.Opposite the military entrance, west of Deadmans Creek entrance	Bankstown	Good	Concrete pipe of around 40cm of diameter with concrete protection	
SW51.Deadmans Creek, south-western end of Sandy Point	Sutherland Shire	Fair	Couple of small plastic pipe of 10-20cm of diameter	Pipe out of small rock seawall

Location	LGA	Condition	Details	Comments
SW52.Northern side of Sandy Point	Sutherland shire	Good	Small pipe of around 20cm of diameter	Pipe at the bottom of a seawall
SW53.North of westernmost tip of Picnic Point	Bankstown	Good	Concrete pipe of around 40-50cm of diameter	Pipe out of a sandstone seawall Almost covered with water
SW54.North-western part of Picnic Point	Bankstown	Poor	Concrete pipe	Pipe out of a sandstone seawall Almost filled up by sand
SW55.West of southernmost tip of Picnic Point	Bankstown	Good	Small pipe of around 10-20cm of diameter	Pipe out of sandstone seawall
SW56.Southernmost tip of Picnic Point	Bankstown	Good	Concrete pipe of around 40-50cm of diameter	Pipe out of a sandstone seawall
SW57.East of southernmost tip of Picnic Point	Bankstown	Good	Concrete pipe of around 40-50cm of diameter	Pipe out of a sandstone seawall
SW58.West of Cattle Duffers Flat	Bankstown	Fair	Small pipe of around 20-30cm of diameter	Pipe out of a sandstone seawall Almost covered with water
SW59.North of Anvil Rocks	Bankstown	Poor	Concrete pipe of around 50-60cm of diameter	Pipe out of a sandstone seawall Almost covered with sand
SW60.South of Anvil Rocks	Bankstown	Good	Square-shape concrete opening of around 40cm of diameter within seawall	Asset at the bottom of a sandstone seawall
SW61.East of Anvil Rock	Bankstown	Fair	Concrete pipe of around 40-50cm of diameter with concrete protection	Pipe out of sandstone seawall
SW62.Under Alford's Point Bridge	Bankstown/Sutherland Shire	Good	Concrete pipe of around 50cm of diameter with concrete protection under both side of the bridge	Rock protection all around the outlets
SW63.North-east of Salt Pan Creek	Hurstville	Good	Large GPT made of a grid closing down a creek	GPT working efficiently
SW64.Opposite Lugarno at the north-eastern end of Old Ferry Road	Sutherland Shire	Good	Concrete pipe of around 40-50cm of diameter	Protected by rocks
SW65.West of Moore Reserve Boat Ramp	Kogarah	Fair	Large concrete block with gridded opening of around 2m of diameter	Some eroded rocks in front of the block
SW66.East of Moore Reserve Boat Ramp	Kogarah	Fair	Pipe of around 60cm of diameter	Pipe out of some rock Some vegetation around the pipe
SW67.North-eastern end of Oatley Bay	Kogarah	Poor	Two concrete pipe of around 50cm of diameter	Severe erosion around the pipes
SW68.Middle of Connells Point Reserve	Kogarah	Good	Concrete GPT with flow reduction system in front of it	GPT capacity might be too small and overflow generates a gully along the beach
SW69.Eastern end of Connells Point Reserve Beach	Kogarah	Fair	Concrete square pipe of around 40-50cm of diameter	Pipe located between the park and private properties
SW70.Northern end of Kyle Bay	Kogarah	Fair	Two concrete pipes of around 30-40cm of diameter	Protected by rocks
SW71.Northern end of Shipwright Bay	Kogarah	Fair	Concrete pipe of around 50cm of diameter	Pipe out of a sandstone seawall

Location	LGA	Condition	Details	Comments
SW72.Eastern end of Shipwright Bay	Kogarah	Fair	Small plastic pipe of around 20cm of diameter	Pipe out of the top of the bank
SW73.Northern end of Dover Park	Kogarah	Poor	Concrete pipe of around 40-50cm of diameter	Damaged pipe Almost totally covered by water
SW74.Carss Park	Kogarah	Good	GPT made of floating tubes with grids stopping the pollution	GPT working efficiently
SW75.North-west of Claydon Reserve	Kogarah	Good	GPT made of floating tubes with grids stopping the pollution	GPT working efficiently
SW76.North-western end of Woollooware Bay	Sutherland Shire	Good	GPT made of a grid facing some concrete pipe overflow outlets	No rubbish present at the time of the site visit
SW77.Southern end of Clareville Park	Rockdale	Fair	Concrete pipe of around 40-50cm of diameter	Old pipe totally exposed
SW78.Southern end of Sandringham Bay	Rockdale	Good	GPT made of floating tubes with grids stopping the pollution	GPT working efficiently
SW79.North of Sandringham Bay	Rockdale	Good	GPT made of floating tubes with grids stopping the pollution	GPT working efficiently



DATE 11/05/2010

0 400 800 metres

COORDINATE SYSTEM
GDA 94 Zone 56

FIG NO. 46

FIGURE TITLE Stormwater Outlet Assessment
Liverpool Weir to Vale Of Ah

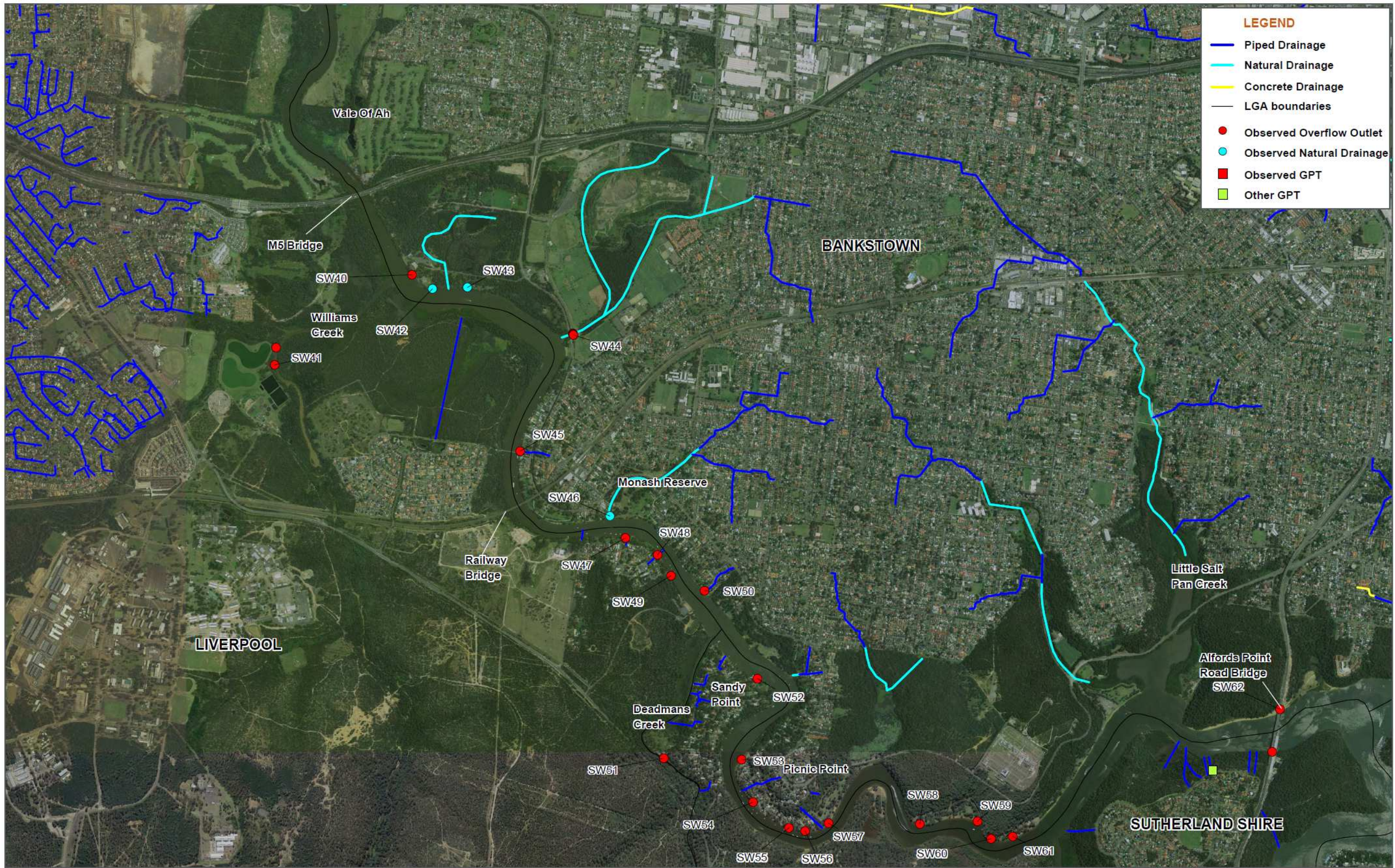


PROJECT NO. 3001765

PROJECT TITLE Georges River Data Compilation
and Estuary Processes Study

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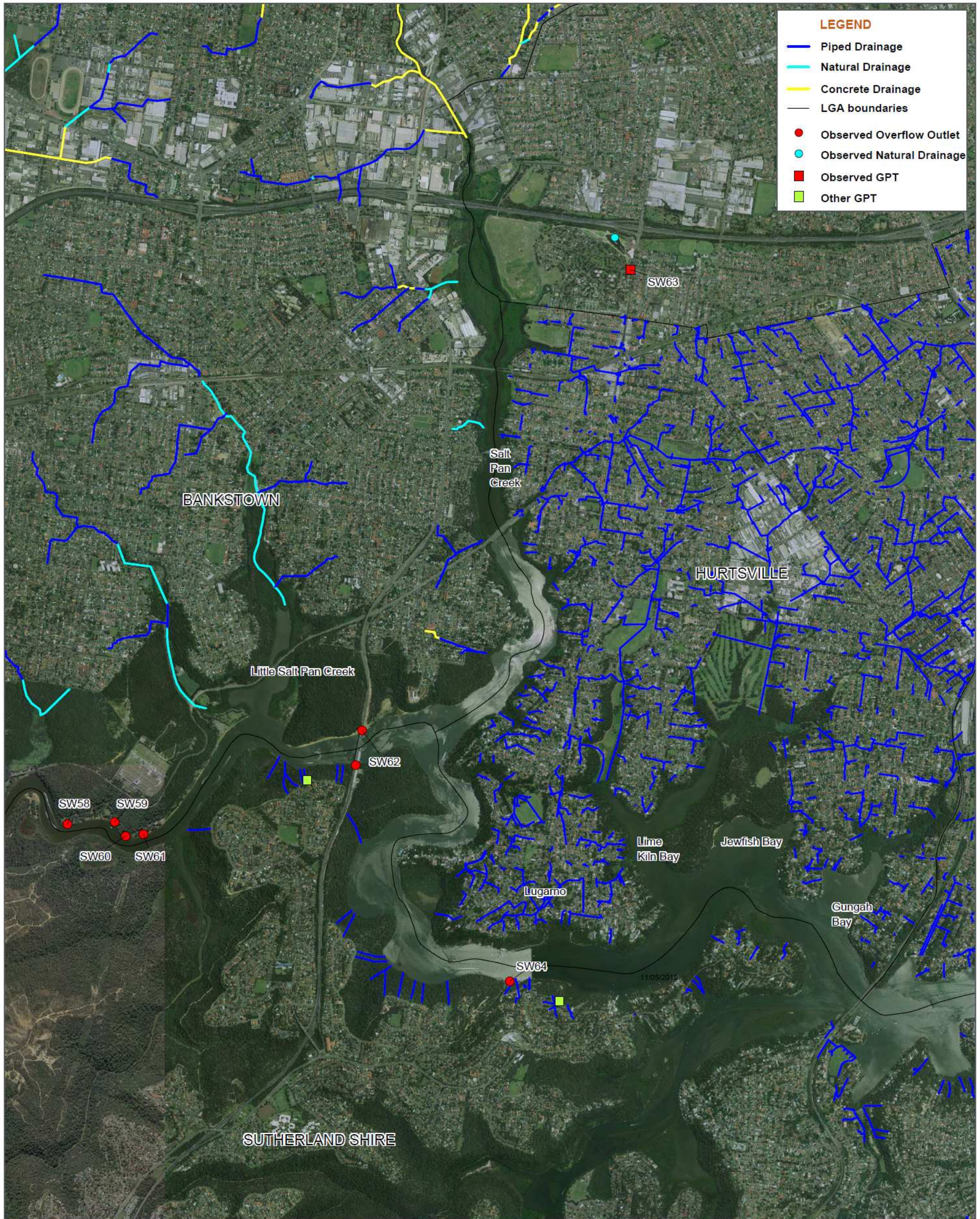
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LEGEND

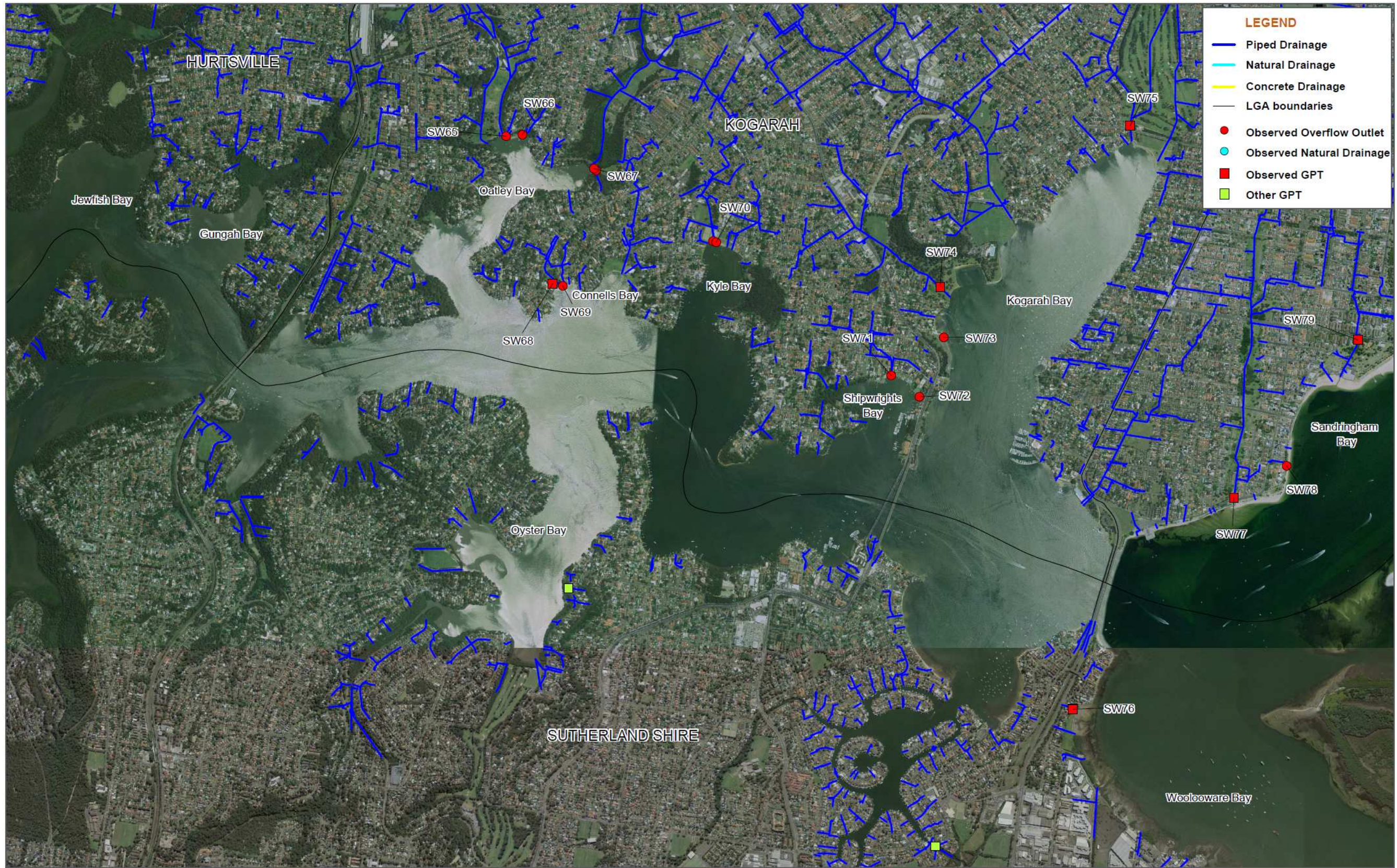
- Piped Drainage
- Natural Drainage
- Concrete Drainage
- LGA boundaries
- Observed Overflow Outlet
- Observed Natural Drainage
- Observed GPT
- Other GPT

<p>DATE 11/05/2010</p> <p>0 400 800 metres</p> <p>COORDINATE SYSTEM GDA 94 Zone 56</p>	<p>FIG NO. 47</p> <p>FIGURE TITLE Stormwater Outlet Assessment Vale of Ah to Little Salt Pan Creek</p>	
<p>PROJECT NO. 3001765</p> <p>PROJECT TITLE Georges River Data Compilation and Estuary Processes Study</p>	<p>CREATED BY M. GLATZ</p> <p>LOCATION I:\projects\3001765 - Georges River Estuary Process Study\009DATA\GIS\MapInfo Workspaces</p>	



DATE	11/05/2010			COORDINATE SYSTEM	GDA 94 Zone 56
PROJECT NO.	3001765	PROJECT TITLE	Georges River Data Compilation and Estuary Processes Study		
FIG NO.	48	FIGURE TITLE	Stormwater Outlet Assessment Salt Pan Creek		
CREATED BY	M. GLATZ	LOCATION	I:\projects\3001765 - Georges River Estuary Process Study\009DATA\GIS\Mapinfo Workspaces		

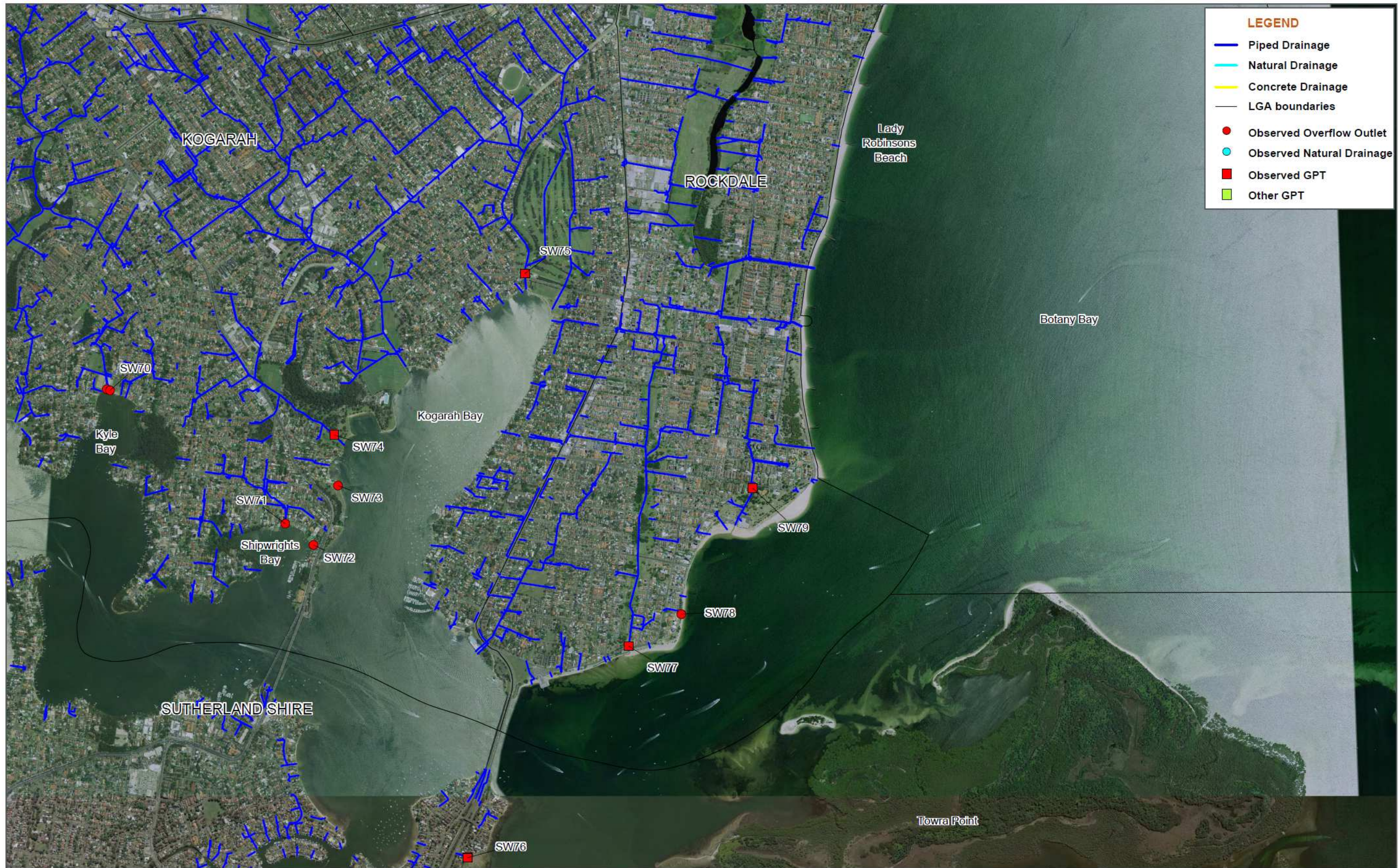




LEGEND

- Piped Drainage
- Natural Drainage
- Concrete Drainage
- LGA boundaries
- Observed Overflow Outlet
- Observed Natural Drainage
- Observed GPT
- Other GPT

<p>DATE 11/05/2010</p> <p>0 400 800 metres</p> <p>COORDINATE SYSTEM GDA 94 Zone 56</p>	<p>FIG NO. 49</p> <p>FIGURE TITLE Stormwater Outlet Assessment Jewfish Bay to Sandringham Bay</p>	
<p>PROJECT NO. 3001765</p> <p>PROJECT TITLE Georges River Data Compilation and Estuary Processes Study</p>	<p>CREATED BY M. GLATZ</p> <p>LOCATION I:\projects\3001765 - Georges River Estuary Process Study\009DATA\GIS\MapInfo Workspaces</p>	



LEGEND

- Piped Drainage
- Natural Drainage
- Concrete Drainage
- LGA boundaries
- Observed Overflow Outlet
- Observed Natural Drainage
- Observed GPT
- Other GPT

DATE 11/05/2010

0 400 800 metres

COORDINATE SYSTEM
GDA 94 Zone 56

FIG NO. 50

FIGURE TITLE Stormwater Outlet Assessment
Kyle Bay to Botany Bay

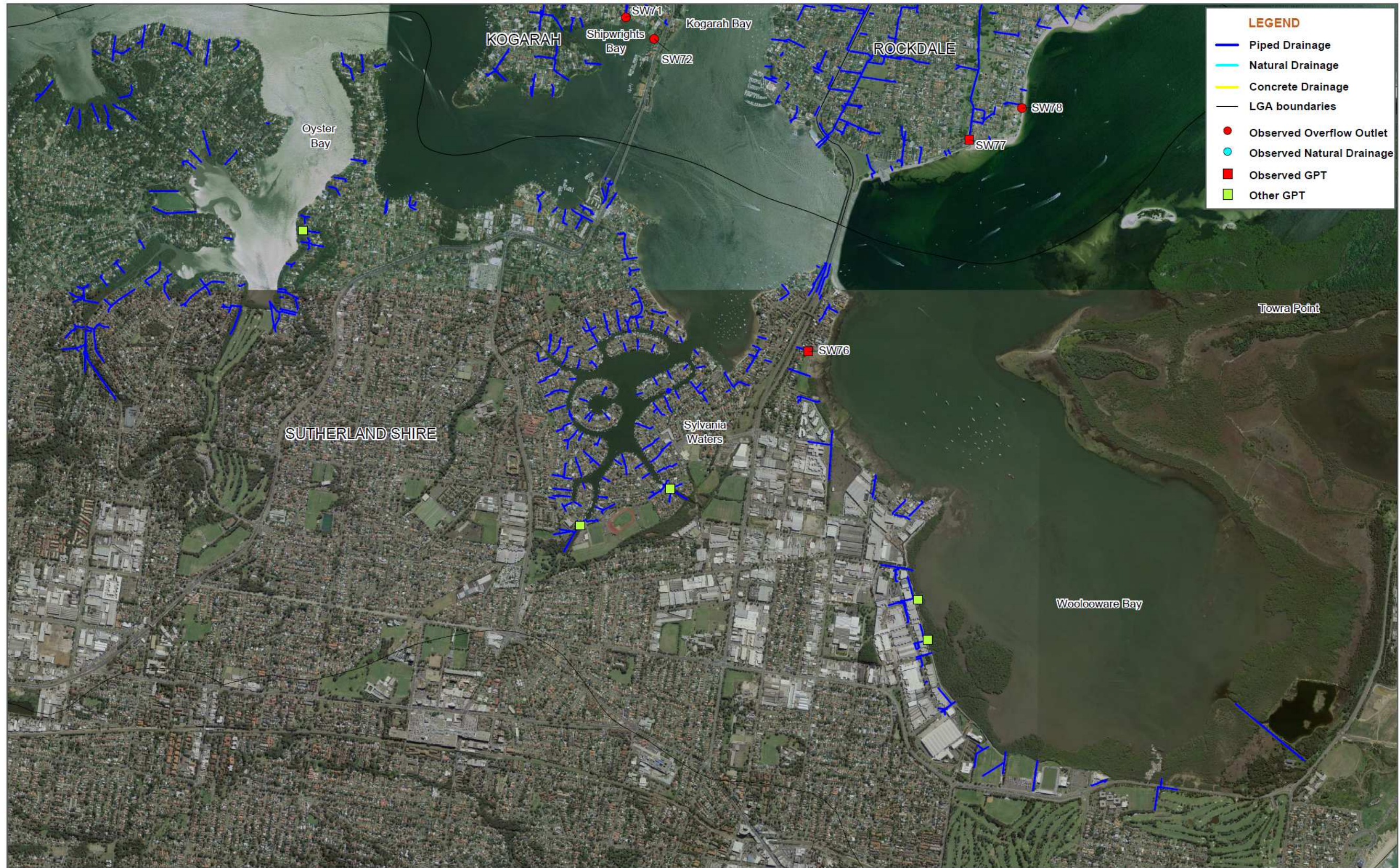
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and Estuary Processes Study

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Process Study\009DATA\GIS\MapInfo
Workspaces





LEGEND

- Piped Drainage
- Natural Drainage
- Concrete Drainage
- LGA boundaries
- Observed Overflow Outlet
- Observed Natural Drainage
- Observed GPT
- Other GPT

<p>DATE 11/05/2010</p> <p>SCALE 0 400 800 metres</p> <p>COORDINATE SYSTEM GDA 94 Zone 56</p>	<p>FIG NO. 51</p> <p>FIGURE TITLE Stormwater Outlet Assessment Oyster Bay to Woollooware Bay</p>	
<p>PROJECT NO. 3001765</p> <p>PROJECT TITLE Georges River Data Compilation and Estuary Processes Study</p>	<p>CREATED BY M. GLATZ</p> <p>LOCATION I:\projects\3001765 - Georges River Estuary Process Study\009DATA\GIS\MapInfo Workspaces</p>	