Appendix 3 – Timeline for Brisbane River

Timeline is a summary of literature reviewed and is not intended to be comprehensive. Rather, it represents the start to a continuing process, whereby others will be able to add historical events via an interactive webpage.

| 1823—1860 | White settlement – Town landing |
|-----------|------------------------------------|
| 1860—1945 | Rapid early expansion - Town port |
| 1945—1984 | Post war development – Lytton port |
| 1984—2001 | Consolidation – Lytton bulk port |

| Year | General | Navigation/Construction/ | Land tenure & | Reclamation / | Political/Legislation/Administratio |
|------|---------------------------|---|---------------|----------------------|-------------------------------------|
| | | Dredging - | land use | Restoration | n |
| | | wharf/dam/weir/wall | | | |
| 1799 | Matthew Flinders | | | | |
| | explored Moreton | | | | |
| | Bay, and landed at | | | | |
| | Woody Point, | | | | |
| | Redcliffe. ³ | | | | |
| 1823 | Arrival of John | The Brisbane River bed, except | | | |
| | Oxley on HMS | for the upper reaches and on the | | | |
| | Mermaid. River | bar, consisted almost entirely of | | | |
| | charted as far | sand, mud and silt, to a depth of | | | |
| | upstream as | about 15' below datum. Below | | | |
| | Goodna. ¹ | this, stiff mud and hard clays | | | |
| | The Brisbane River | existed for the most part. Gravel | | | |
| | was named after Sir | areas occurred in the upper | | | |
| | Thomas Brisbane, | reaches and there were rock | | | |
| | governor of New | areas around Lytton and at one | | | |
| | South Wales. ⁶ | or two other patches upstream. ¹ | | | |

| 1824 | Return of John | Establishment of landing sites in | Government | The first white settlement in the |
|------|--------------------------|---|-------------------------|-----------------------------------|
| 102. | Oxley on HMS | the river at Brisbane town. The | owned penal | region was a penal colony. Free |
| | Amity colonial brig | river banks were notoriously | colony which | trade and settlement was not |
| | with the first | sticky black mud. The bar at the | included | allowed. ¹ |
| | shipload of troops | mouth was a nuisance to | settlement | |
| | and convicts. Initial | shipping, also, but it did put off | accommodation | |
| | settlement at | illegal entry to the colony. ¹ | area, small crop | |
| | Redcliffe moved to | inegai entry to the colony. | farms and | |
| | Brisbane town. | | quarries. ¹ | |
| | Previous charts | | First penal colony | |
| | were revised, | | was established at | |
| | updated and | | Redcliffe. ⁶ | |
| | extended. ¹ | | | |
| | September- Oxley | | | |
| | and Cunningham | | | |
| | noted signs of | | | |
| | drought above | | | |
| | College's | | | |
| | Crossing. ⁷ | | | |
| 1825 | Arrival of Edmund | Mermaid was the first sea going | Exports were | |
| | Lockyer on HMS | vessel to enter the river and, | timber cut from | |
| | Mermaid to further | after dropping supplies, to leave | along the banks | |
| | examine the river – | with a cargo of pine logs, 7 | of the river and | |
| | 'Eden Glassie' | Sept. Most shipping in the river | floated to a pick- | |
| | (=Brisbane). The | was, however, small shallow | up point outside | |
| | river was surveyed | draft vessels ferrying passengers | the bar. ¹ | |
| | up to the mountains | and cargo from drop-off points | Redcliffe penal | |
| | and source. ¹ | at Dunwich and Amity. ¹ | colony was | |
| | Lockyer explored | | moved to North | |
| | the middle section | | Quay. ⁶ | |

| | of the Brisbane River. ⁸ | | | |
|------|--|--|--|---|
| 1826 | | The first wooden wharf constructed was ~300 yds downstream of where the northern end of Victoria Bridge is located today. Bar at river mouth was an obstruction to normal-sized vessels. ¹ | As the settlement became well- established wheat production flourished and shiploads were sent to Sydney in Government vessels. ¹ | |
| 1827 | Discovery of limestone on the Bremer near Ipswich. ¹ | Flat bottom barges, operated by the settlement at Brisbane town, carried limestone for building purposes from Ipswich. ¹ Bridge built across Wheat Creek from corner of Adelaide and Albert Streets. ³ | | First pilot appointed – John Tosh. ¹ |
| 1828 | | Alan Cunningham reported a stone wharf used for landing stone ferried across the river from Kangaroo Point for construction of buildings in the settlement. This wharf was located at the Edward Street ferry landing. ¹ | | |
| 1829 | Explorer Cunningham traversed the | A wharf was constructed to service the Eagle Farm agricultural area, but this wharf | | |

| | country to the north- Linville. ⁸ | was not used much since it had a sand bar in front. ¹ Commissariat Stores with retaining wall completed at Queens Wharf. ³ | | |
|------|--|--|--|---|
| 1835 | | Another bridge constructed across Wheat Creek, near corner | | |
| | | of Queen and Creek Streets. ³ | | |
| 1836 | Major flood. ³ | Bridge constructed over Breakfast Creek. ³ | | |
| 1838 | Severe drought. ³ | bleaklast Cleek. | | |
| 1000 | Severe drought. | | | |
| 1841 | Squatters (sheep farmers) on the Darling Downs given permission to land and pick-up supplies at Brisbane. Flood height at the Port Office gauge = 31'5", Jan 14; swept away bridges. ^{1,3} | | | |
| 1842 | Proclamation declaring Moreton Bay was no longer a penal settlement | | Moreton Bay open for settlement and free trade. | Harbour Master, appointed from Sydney. ¹ |
| | and it was now | | Building | |

| 1042 | open for free settlement. ¹ (A) The road from the north marked out. ⁹ | | allotments in the Town of Brisbane sold at auction in Sydney. ¹ | |
|------|--|---|--|--|
| 1843 | Flood height at the Port Office gauge = $12'10''$, Jun 9. ¹ | | | |
| 1844 | Flood height at the Port Office gauge = $26'10''$, Jan $10.^{1}$ | HRSN Co. wharf and stores built at South Brisbane. ³ | | |
| 1845 | | A rapid increase in shipping to Moreton Bay with smaller ships crossing the bar and anchoring in the South Brisbane Reach. Larger ships anchored off the river mouth and received cargo from small tenders and lighters. ¹ | <i>Eliza Kincaid</i> took on the first cargo of wool from the Moreton hinterland for sale in Sydney. ¹ | |
| 1846 | Brisbane declared a Port of Entry. ¹ | | Moreton Bay is inhabited by approximately 4000 Aborigines and 2257 migrants. ¹⁰ | |
| 1848 | <i>Artemisia</i> was the first immigrant ship to Brisbane and Moreton Bay bringing over 200 people from | Tonnage of shipping entering the Port of Moreton Bay was 8,000 tons. ¹ Bridge for traffic opened over Breakfast Creek (collapsed the following year). ² | <i>Artemisia</i> departed within a month laden with a cargo of wool. ¹ | |

| | overseas. ¹ | | | | |
|------|---|--|--|--|--|
| 1849 | Brisbane declared a Warehousing Port. ¹ | Shipping companies built commercial wharves and warehouses along the south bank, opposite the township. ¹ | | | |
| 1850 | Customs House erected in 1850. ¹ | First survey of the navigation of the River Brisbane with a view to removal of the natural obstacles, especially at the river bar and at Eagle Farm Flats. The survey identified the works and cost but little was done until after Separation. ¹ Tender accepted for new Breakfast Creek bridge. ³ | Agriculture and grazing activities spread beyond inner Brisbane, to areas such as Bulimba, Coorparoo, Enoggera, Nundah, Sherwood and Stafford. ¹⁰ The Brisbane River valley sheep grazing was starting to cause erosion problems. After flooding rains, considerable soil was eroded and later deposited on sand river banks. ⁸ | Areas outside inner suburbs largely used for agricultural and pastoral purposes until 1880's (e.g. Bulimba, Coorparoo, Enoggera, Nundah, Sherwood and Stafford). ³ | |
| 1851 | | Customs Wharf constructed at Petrie Bight. ³ | | | |

| 1852 | Flood height at the Port Office gauge = $13'4''$, Apr 16. ¹ | Eagle Street warehouse and wharf constructed. ³ | | | |
|------|--|--|---|--|---|
| 1853 | | Tonnage of shipping entering the Port of Moreton Bay was 16,800 tons. ¹ Bridge built across Cabbage Tree Creek and improvement to the Brisbane road undertaken. ⁹ | | | Steam Navigation Board of Moreton Bay (SNBMB). ¹ |
| 1857 | Flood height at the Port Office gauge = $14^{\circ}6^{\circ}$, May 19. ¹ | Three bridges built at Milton. ³ | | | |
| 1858 | | Some obstructions removed from Brisbane and Bremer Rivers. First permanent bridge constructed over Breakfast Creek. ³ | | | |
| 1859 | Separation of Queensland from NSW. ¹ Queensland became its own state, with its own local government. ⁶ | Tonnage of shipping entering the Port of Moreton Bay was 40,000 tons. Feasibility of dredging the mouth bar and upstream to Lytton, and removing rock bars above Lytton up to Eagle Farm Flats. Most ships had to anchor outside Brisbane River Bar and transfer cargo to and from smaller vessels – dredging of channel through Bar was of | The municipality of Brisbane consisted of ridges and swamps, the rainfall runoff finding its way naturally to the swamps without need of man- made drains, and then via a series | Large influx of immigrants. ³ | Water supply and drainage were considered most urgent jobs for the government. ¹ |

| | | | - | |
|------|-----------------------------|---|---------------------------------|--|
| | | importance to trade economy. ¹ | of swamps and | |
| | | ASN new wharf below Mary | lagoons to the | |
| | | Street. ³ | river. Spring | |
| | | | high tides or | |
| | | | flooding in the | |
| | | | river flowed back | |
| | | | into, and banked | |
| | | | up, the natural | |
| | | | runoff to these | |
| | | | swamps, causing | |
| | | | much of the | |
| | | | surrounding land | |
| | | | to be impassable | |
| | | | in wet weather. ¹ | |
| 1860 | Tenders for steam | Money available for clearing | The first drainage | |
| | dredge called. ¹ | obstructions in Brisbane and | system was | |
| | | Bremer Rivers. ¹ | constructed from | |
| | | | Elizabeth Street | |
| | | | down Albert | |
| | | | Street to the creek | |
| | | | at Margaret | |
| | | | Street, which, | |
| | | | although above | |
| | | | ground level, had | |
| | | | a very flat grade. ¹ | |
| 1861 | The first census | | | |
| | taken in Queensland | | | |
| | in April. | | | |
| | Population of | | | |

| | 30,059. ¹ | | | |
|------|---|--|---|---|
| 1862 | Severe drought. ³ | The steam dredge <i>Lytton</i> arrived in Brisbane under the direction of Thomas Francis. It was used to cut a channel through the bar at the mouth of the river – channel would be 300' wide and 9' deep at LW. Work was needed on inner and outer ends. Material dredged in the inner cut was sand, shell and vegetable matter while it was sand and mud in the outer. ¹ | | SNBMB becomes the Marine Board. ¹ |
| 1863 | Flood height at the Port Office gauge = 14'8", Feb 16. ¹ | Improvements of channel at Seventeen Mile Rocks, but this resulted in blocking one of the channels, creating shoal across River below rocks. ¹ | An18' brick drain was built from Edward Street to Eagle Street. ¹ | Oyster Fisheries Act 1863, reacting to the depletion of oysters on the banks in Moreton Bay, forbade the burning of live oysters for making lime, and issued permits for oyster beds. ¹ |
| 1864 | Construction of the Enoggera Dam. Flood height at the Port Office gauge = 16'2", Mar 20. ¹ Construction of railway from Ipswich began. ³ | Work on inner end of Bar channel completed and work started on outer end. Brady given contract to deepen shallow parts of Brisbane and Bremer Rivers. ¹ Qld Steam Navigation Co. wharf constructed. ³ | | |
| 1865 | The first railway opened from | Investigation revealed bar of coarse shingle at mouth of | | |

| Ipswich to | Bremer River, and rocky | | |
|----------------------|--------------------------------------|--|--|
| Grandchester. Rail | obstructions at Five Mile Rocks, | | |
| and roads were used | Mile and a Half Rocks and | | |
| to ferry produce and | Seventeen Mile Rocks in the | | |
| supplies between | Brisbane River. Rock | | |
| the hinterland and | obstructions were removed in | | |
| port. ¹ | the Brisbane and Bremer Rivers. | | |
| r · ·· | A breakwater constructed at the | | |
| | junction of these rivers was | | |
| | designed to divert tidal waters | | |
| | into the Bremer leaving the | | |
| | upper Brisbane River fresh. | | |
| | Cutting commenced at | | |
| | Seventeen Mile Rocks. Channel | | |
| | cut through rock in Bremer from | | |
| | Basin to wharves at Ipswich. | | |
| | Obstructions at Two Mile | | |
| | Rocks, Five Mile Rocks and | | |
| | others removed. Construction | | |
| | of new timber jetty at Cleveland | | |
| | commenced. A wood pile | | |
| | bridge, Victoria Bridge, was | | |
| | built across the river from the | | |
| | town to the south bank. ¹ | | |
| | First bridge constructed over | | |
| | Cabbage Tree Creek to | | |
| | Sandgate. Temporary wooden | | |
| | bridge constructed between | | |
| | North and South Brisbane | | |
| | (collapsed 1867). ³ | | |

| 1866 | A garrana agamamia | The steers dredge Eiteren | I anga angag | |
|------|----------------------------|------------------------------------|----------------------|--|
| 1800 | A severe economic | The steam dredge <i>Fitzroy</i> | Large areas | |
| | depression lasting | arrived in Brisbane to dig and | owned by the St | |
| | until 1873. No | maintain channels in Brisbane | Vincent's | |
| | money for | and Bremer Rivers. Dredging | Orphanage (over | |
| | construction or | and construction works were | 3000 acres), | |
| | dredging besides | discontinued due to the collapse | including the | |
| | essential. Dept. of | of financial institutions in Great | Boondall | |
| | Harbours and | Britain. Work stopped at | Wetlands, Dinah | |
| | Rivers | Seventeen Mile Rocks due to | Beach and | |
| | discontinued. ¹ | lack of funds. Much rock and | Nudgee Beach | |
| | Storm and flooding | shingle had been removed but | (cleared due to | |
| | 27 Oct. Floods 10 | obstacles dangerous to | increasing timber | |
| | December. ⁴ | navigation still existed. A wharf | needs). ⁹ | |
| | | at Lytton was constructed to | | |
| | | tranship railway stores and | | |
| | | plant. Queen's wharf in | | |
| | | Brisbane was renewed. ¹ | | |
| | | Construction of Brisbane Bridge | | |
| | | started. ³ | | |
| 1867 | Flooding destroyed | Dredging and cutting of the | | |
| | the original Victoria | Francis channel and two smaller | | |
| | Bridge. This was | channels in the river (Fisherman | | |
| | replaced. Flood | Channel: cutting through | | |
| | height at the Port | sandbank to remove 40,000 | | |
| | Office gauge = | cubic yards of sand; and Pelican | | |
| | 11'10", Apr 2. | Channel: shoal) by the dredge | | |
| | Tonnage arriving/ | Lytton were completed allowing | | |
| | leaving port | vessels of 16-17' draft to reach | | |
| | decreased by almost | Lytton and Eagle Farm. | | |
| | a third. ¹ | Lanterns were used for lighting | | |

| | | up the channel beacons through Eagle Farm Flats. Breakwater completed at junction of Bremer and Brisbane Rivers. By this time, 56 buoys and 120 beacons marked the 170 miles of channel in the port. ¹ | | |
|------|---|---|--|--|
| 1868 | Lytton designated as Brisbane's port. ¹ | It was possible to wade at LW across the river in Quarries Reach along a sand bar from near Colmslie to Hamilton. The greatest depth on this bar was around 3'6" at LW. The flood in 1873 changed this to 6'. ¹ | | |
| 1870 | Oyster industry flourishing. Included harvesting of shallow and deepwater beds. Flood height at the Port Office gauge = $13'3''$, Mar $10.^{1}$ | The whole of the cuttings in the Brisbane River were cleared out to width of 200' and a depth of 10'6" at LW, except in Francis Channel, where inner cutting was cleared to 250' wide and outer cutting to 175'. Part of dredging plant sold, part turned over to Dept. Ports and Harbours. ¹ | | |
| 1873 | End of the economic depression. Flooding of the river noted through | Dredging continued also in the Upper Brisbane River, particularly Cockatoo Shoals. Minimum depths for river sections (in brackets): The Bar | The pastoral industry was still the mainstay and the first wool sales were held in | |

| | the city area including Edward Street and the Botanic Gardens. Flood height at the Port Office gauge = 12'7", Jun 18. ¹ | (4'). Inner Bar (9'), Luggage Point (18'), Pelican Bank (9'), Lytton Rocks (15'), Above Lytton (17'), Eagle Farm Flats (7'), Quarries Reach (13'), Hamilton Reach (6'), Town Reach (15') and South Brisbane Reach (14'). Flood removed Quarries Reach sand bar to 6'' and washed away Egg Islet (small islet mid channel off Parker Island). ¹ | Brisbane. Sugar cane was first grown on the banks of the Brisbane River but disastrous frosts in three successive years caused a decline in this area. ¹ | |
|------|--|--|--|--|
| 1874 | Financial situation improved. Engineer Francis Rose appointed to take care of dredging, wharf construction and harbour works. Re- establishment of Dept. of Harbours and Rivers. Increase in overseas and coastal vessels visiting Brisbane. ¹ | Dredging of Brisbane River recommenced with upturn of economy. Cutting of a channel through Cockatoo Shoal (gravel), above Brisbane, was completed by the dredge <i>Cockatoo</i> in 1875. ¹ Iron Victoria Bridge opened between North and South Brisbane, but collapsed 1893. ³ | | The Oyster Act of 1874 extended granting of licences to dredge sections where oysters grew below 2' at LW. All vessels engaged in collection were to be identified with the word "OYSTER". Those on the banks were identified with "O.B." Report on the oyster Fisheries of Queensland. ¹ |
| 1875 | Construction of the government wharves at Petrie's | The old bucket dredge <i>Lytton</i> was overhauled and recommissioned for work in the | Initial concerns primarily with the creek downstream | The Brisbane Drainage Act of 1875 sought to address the urgent need for controlling water supply and |

| | Bight commenced in September, completed in 1877. Flood height at the Port Office gauge = 12'4", Mar 1. ¹ | Francis Channel (10'6" at LW) and Petrie's Bight (16-17' at LW). Further work was done in the Francis Channel, as well as the Hamilton Reach in 1876. Contract for South Brisbane Dock. ¹ Construction of Indooroopilly railway bridge (collapsed 1893). Construction of new government wharves at Petrie Bight began. ³ | of the Albert Street/ Adelaide Street intersection which was then the only open area developed, and in the knowledge that the Makerston Street culvert would be built as part of the Roma Street Railway project. ¹ | drainage. ¹ |
|------|--|---|---|--|
| 1876 | | <i>Lytton</i> works on dredging Francis Channel and improving No. 2 Cutting, Hamilton Reach. Work commenced on the South Brisbane Dock, the graving dock, and completed in 1881. Much of excavated material deposited on streets of South Brisbane (which needed raising, widening, etc.). A wharf and approaches were constructed near the mouth of Doughboy Creek. ¹ Albert railway bridge linking Brisbane and Ipswich opened at Indooroopilly. ³ | Small crop farming and dairying popular on city periphery. ³ | The Navigation Act of 1876. ¹ |

| 1877 | | The new bucket dredge Groper | Storm culverts | The Queensland Fisheries Act of |
|------|---------------------|--|-------------------------|------------------------------------|
| 10// | | was used extensively on | built along | 1877 sought to control commercial |
| | | permanent navigation channels | Adelaide and | fishing and preserve some breeding |
| | | | Creek Streets | and feeding grounds. ¹ |
| | | in the river commencing at Pinkenba Flats. All channels | | and recoming grounds. |
| | | | included a 9' by | |
| | | were dredged to 10' below LW | 9' masonry | |
| | | to Brisbane. Once this was | tunnel. Various | |
| | | completed work started on | other site | |
| | | deepening the river channels to | drainage systems | |
| | | 15' below LW, and widening to | installed in the | |
| | | 250'. By now, Lytton had | town area. ¹ | |
| | | removed a total of 59,672 cubic | | |
| | | yards from Brisbane River. | | |
| | | Spoil from dredging was mainly | | |
| | | deposited in the bay, 12 miles | | |
| | | offshore, and the rest in the | | |
| | | blind channel behind Parker | | |
| | | Island. ¹ | | |
| | | Kennedy Wharf at Petrie Bight | | |
| | | constructed. ³ | | |
| 1878 | | Six tide gauges were installed | | |
| | | between Brisbane and Lytton, | | |
| | | and the marked high water | | |
| | | datum supposedly represented a | | |
| | | horizontal line between the | | |
| | | beacons. ¹ | | |
| | | Construction of South Brisbane | | |
| | | Graving Dock commenced. ³ | | |
| 1879 | Flood height at the | Previously, there was a lack of | | |
| | ~ | | | |

| | Port Office gauge = 11'10", Oct 16. ¹ | suitable wharfage – vessels arriving in Town Reach had to anchor in the stream. Five moorings were installed in Town Reach for vessels waiting to unload or load. Survey of | | |
|------|---|---|--|--|
| | | foreshores of Wynnum-Manly, and plans for proposed seawall. ¹ | | |
| 1880 | | Countess St railway bridge completed. ³ | | |
| 1881 | The 'Queensland Navy' was equipped to fight off a possible threat from the Russians. ¹ | Work completed deepening the river channels from Brisbane to Lytton to 15' below LW. Cuttings were made in the line of the river and siltation was a problem only in three places – Hamilton, Eagle Farm and the Francis Channel. South Brisbane Graving Dock completed and opened. ¹ | | |
| 1882 | | A new straight channel across the Brisbane bar was completed by <i>Groper</i> and the new dredge <i>Octopus</i> (previously, the tortuous Francis Channel had given difficulty). Two lighthouses were erected in the middle of the mangroves on Fisherman Islands. A gangway | | The Port Dues Revision Act of 1882. ¹ |

| | | was constructed between the | | |
|------|-----------------------|---|---------------------------|--|
| | | | | |
| | | two islands to allow access to | | |
| | | the back light positioned in soft | | |
| | | mud. ¹ | | |
| 1883 | Severe drought. | Construction of the Pile Light | Drought brought | |
| | Heavy gale | marking the outer edge of the | about a sustained | |
| | January. ¹ | Brisbane Bar (16' at LW) and | decline in | |
| | | eastside of the entrance to the | pastoral | |
| | | straight channel. This replaced | expansion until | |
| | | the lightship. The structure | around 1886. ¹ | |
| | | originally included the | | |
| | | lightkeepers house and telegraph | | |
| | | station, and was only | | |
| | | demolished in 1970. Duke of | | |
| | | Westminster, 3,726 tons and | | |
| | | 400', was the largest vessel to | | |
| | | reach the town. The curve | | |
| | | around Kangaroo Point was less | | |
| | | than some vessels could turn | | |
| | | unassisted, so controls and | | |
| | | procedures were adopted for | | |
| | | general navigation. ¹ | | |
| 1884 | Swamps drained | The new hopper dredge | | |
| 1001 | around Kangaroo | <i>Platypus</i> worked in the river and | | |
| | Point, Petrie | deposited spoil at Mud Island, a | | |
| | Terrace and New | shallow mud island at the mouth | | |
| | Farm. ³ | of the river. The <i>Groper</i> , | | |
| | 1 ¢1111. | deepened the Bar Cutting | | |
| | | | | |
| | | channel to 15' below LW and a | | |

| | width of 200'. The Inner Bar | | |
|------|----------------------------------|--------------------|--|
| | Cutting was dredged to the same | | |
| | depth but a width of 150'. The | | |
| | cutting through the Flats at | | |
| | Eagle Farm and Pinkenba was | | |
| | dredged to the same depth and a | | |
| | width of 200'. The Octopus | | |
| | deepened the Rocky Channel | | |
| | below Lytton to the same depth | | |
| | and width of 100'. After this it | | |
| | was decided to widen the | | |
| | channel cuttings to 300'. By | | |
| | now, nearby places for deposit | | |
| | of dredged spoil from the | | |
| | Groper were becoming limited – | | |
| | spoil to be dumped on the SE | | |
| | side of Mud Island. ¹ | | |
| | Coal wharf opened at South | | |
| | Brisbane bight (demolished | | |
| | 1974). Wharf built at Kangaroo | | |
| | Point by Gibbs Bright and Co. | | |
| | Moar slip built at Kangaroo | | |
| | Point. Alterations to ASN Co. | | |
| | wharves at Eagle Street. | | |
| | Construction of new South | | |
| | Brisbane municipal wharves | | |
| 1005 | began. ³ | | |
| 1885 | The Octopus was used to clear a | A scheme for | |
| | swing basin in the South | diverting flood | |
| | Brisbane Reach to a depth of 16' | waters of Victoria | |

| | | T | | |
|------|-----------------------------|---|--------------------------------|-------------------------------------|
| | | below LW. The Groper | Park and Spring | |
| | | continued widening channels. ¹ | Hollow into | |
| | | | Breakfast Creek | |
| | | | included a culvert | |
| | | | of 660' and 8' in | |
| | | | diameter running | |
| | | | through Bowen | |
| | | | Hills. This was | |
| | | | expected to | |
| | | | greatly improve | |
| | | | drainage from | |
| | | | Fortitude Valley. | |
| | | | Other drainage | |
| | | | works were | |
| | | | undertaken near | |
| | | | Milton, South | |
| | | | Brisbane, New | |
| | | | Farm, Kangaroo | |
| | | | Point and | |
| | | | Fortitude Valley. ¹ | |
| 1886 | Drought ended. ¹ | Boats plying between Brisbane | As the drought | The Oyster Act of 1886 repealed and |
| | | and Ipswich included 18 | ended, pastoral | updated the 1874 Act. ¹ |
| | | steamers, 18 sailing vessels, 23 | expansion | |
| | | barges and ~70 market boats. | increased again | |
| | | Due to river works, boats | along with | |
| | | drawing 21' water could go up | mining. ¹ | |
| | | with tide without problems. ¹ | Stormwater | |
| | | South Brisbane Council's | drainage at | |
| | | Musgrave Wharf completed. | Spring Hill, | |
| | | Stanley Bridge constructed | Fortitude Valley, | |

| | | across Norman Creek. ³ | New Farm and Petrie Terrace completed. ³ | |
|------|---|--|---|---|
| 1887 | Flooding of the river in February deposited soft material in the lower reaches of the river, as well as snags, and created shoals in the upper reaches. Flood height at the Port Office gauge = 16'2", Jan 23. Gale January. ¹ Closure to net fishing of the Brisbane river upstream from Bulimba Ck for 3 years. ² | The full channel depth of 15' below LW and width of 300' was obtained in all river sections from Brisbane to the mouth. Considered deepening channel to 20' below LW, and Harbour of Brisbane needed further deepening. The SS <i>Jumna</i> with a draft of 21'4" came up to Brisbane and left largely unassisted. However, there were problems because of the limited berthing facilities for these larger vessels up river. Work commenced on cutting a central channel of 20' depth at LW. Additional moorings were installed abreast of the Botanic Gardens for vessels waiting to unload or load. Dredge <i>Hydra</i> recommissioned, deepening of Bulimba Reach Channel to 20' started. ¹ South Brisbane Graving Dock extended. North Quay embankment collapsed, mass concrete retaining wall | | First Inspector of Fisheries appointed. The Queensland Fisheries Act of 1887 sought to better manage fisheries and preserve fish breeding and feeding grounds. ^{1,2} |

| | | constructed along Coronation Drive. ³ | | |
|------|--|---|--|--|
| 1888 | | New bridge at Breakfast Creek started. ³ | Stormwater drainage of South Brisbane constructed. ³ | |
| 1889 | Flood height at the Port Office gauge = 16'1", Jul 20. ¹ | Two clam shell dredges cleared various wharves and removed silt/ blasted rock from Dock entrance. ¹ New Breakfast Creek Bridge completed. ³ | | |
| 1890 | Flooding of the river in March. Flood height at the Port Office gauge = 21'3", Mar 13. Heavy gales damage navigation aids. ¹ | A measured mile (6,080'), used to check speed of vessels, was set out in Bulimba Reach. Navigation lights burnt oil and this required a light keeper. Clam-shell dredges cleared Websters Wharf, South Brisbane, and also ferry approach of Creek Street, and Harbours and Rivers and Port Office wharves. <i>Hydra</i> and <i>Groper</i> dredged berths of South Brisbane Reach, and then started deepening cuttings to 20'. ¹ | | |
| 1891 | Fish caught in Moreton Bay were brought up the river | First tables of predicted tide levels for the Brisbane River. ¹ | First wool sales held in Brisbane. ¹ | |

| | to Breakfast Creek where fish were distributed. Gales and heavy seas damaged buoys, etc. ¹ | | |
|------|--|---|---|
| 1892 | A cyclonic gale struck Brisbane with unusual violence on April 2 nd with wind gusts ~70-75 mph. ¹ | Brisbane River had a dredged channel 300' wide and 15' deep at LW with the central channel of 100' width having a depth of 18' at LW. All back channels had been filled with dredge spoil so shore sites were investigated. Dredging plant were laid up and port work greatly reduced as economic conditions worsened. ¹ Norman Wharf built for ASN Co. at Eagle Street. ³ | The Harbour Boards Act 1892 sought to control and administer the ports in Queensland. The Act made provision for the construction, regulation, management and improvement of harbours by local authorities constituted for that purpose. The Harbour Dues Act of 1892 made temporary provision for the management and improvement of harbours while providing funds for the new Board when constituted. ¹ |
| 1893 | Crisis and disaster. Eight of the eleven banks in the colony closed and there was general economic collapse. Depression. Flooding of the river in February was the worst ever rising to at least | Severe flooding almost obliterated the dredged channels and closed the port to all but small craft. Minimum depths for cuttings (in brackets): Outer Bar (8'6''). Inner Bar (15'), Pelican Reach (12'), Lytton Rocks (13'6''), Above Lytton (15'), Eagle Farm Flats (6'), Quarries Reach (12'), and Hamilton Reach (8'). After | Harbour Dues Act of 1893. At this time, control of tidal waters remained with the Crown. Reclamation required an Act of Parliament. This was later amended to Governor in Council approval and the issue of an Order in Council. A Board was granted tenure over port lands for the purpose of wharfage or port purposes, and the power to levy harbour dues on all goods discharged |

| | 202422 -1 L W | | | |
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| | 30'4" above LW | considerable effort all channel | | or shipped within the harbour |
| | twice in 2 weeks. | cuttings were re-established by | | together with the right to lease land |
| | River flooding left | dredges Hydra, Groper and | | and facilities. ¹ |
| | the gunship Paluma | Platypus. Port works later | | |
| | high and dry in the | ceased again due to the poor | | |
| | Botanic Gardens. | economic conditions. The small | | |
| | Flood rose to 36' | dredge Bremer was used in the | | |
| | above LW at | Upper Brisbane River including | | |
| | Victoria Bridge. | Pullen Pullen Creek, Gogg's | | |
| | Flood height at the | Reach, Cockatoo Island, | | |
| | Port Office gauge = | Moggill Race, Bremer River | | |
| | 31'2", Feb 5. Flood | | | |
| | height at the Port | Bremer and Brisbane Rivers. ¹ | | |
| | Office gauge = | Indooroopilly railway bridge | | |
| | 10'10", Feb 12. | and N end of Victoria Bridge | | |
| | Flood height at the | destroyed in floods. ³ | | |
| | Port Office gauge = | | | |
| | 30'4", Feb 19. | | | |
| | Flood height at the | | | |
| | Port Office gauge = | | | |
| | 15'8", Jun 12. ¹ | | | |
| 1894 | Strong gales and | The small dredge Bremer was | | The amalgamation of the Marine |
| | heavy rain occurred | used to clear a minimum depth | | Department. An amended regulation |
| | in January to | of 6-7' at HW between Victoria | | limited the speed of vessels within |
| | March. The river | Bridge and the mouth of the | | the river sought to protect the |
| | remained closed to | Bremer. The river on the whole | | cutting. ¹ |
| | net fishing from the | carried much less water than | | - |
| | Magazine and | before. Most dredge plant were | | |
| | Doughboy Creek | laid up again due to poor | | |
| | upstream, | economic circumstances. ¹ | | |

| | reportedly providing a nursery for young fry. At least 12 boats fished the river and Boat Passage taking mullet, whiting, bream, tailor and jewfish. ¹ | | | |
|------|---|---|--|--|
| 1895 | The Great Drought (until 1903). ³ | Construction commenced on the new steel arch Victoria Bridge, and continued until 1896. Number of vessels using South Brisbane Dry Dock decreased: needed lengthening and entrance widened for larger vessels. All cuttings up to Hamilton restored (after flood) to depth of 16', width 300' (except Lytton Rocks Cutting, 200' wide). Town and South Brisbane Reaches also dredged. ¹ New Albert railway bridge opened, linking Indooroopilly and Chelmer. ³ | Recovery of commercial and industrial building activity after Depression. ³ | |
| 1896 | Mud worm disease found in oysters of Moreton Bay. The oyster industry was | The first gas buoys and transporters were used. The gas was produced locally from the refuse from shale oil plants. | | |

| | in bad shape and | These lasted until the 1960s. | | |
|------|-----------------------------|--|---------------------------|--|
| | getting worse. | Dredges <i>Hydra</i> and <i>Groper</i> | | |
| | Flood height at the | maintained and deepened the | | |
| | Port Office gauge = | river channels from the bar to | | |
| | 10'4", Feb 14. | Hamilton Reach. <i>Bonito</i> worked | | |
| | Flood height at the | in the reaches above Hamilton | | |
| | Port Office gauge = | up to South Brisbane Reach. | | |
| | 6'7", Feb 22. Flood | Bremer was refitted with drilling | | |
| | height at the Port | equipment and used to break up | | |
| | Office gauge = | rock in the Lytton Rocks | | |
| | 9'10", Feb 29. ¹ | cutting. Rock was removed by | | |
| | Tidal separation of | the dredge Groper. This rock | | |
| | North and South | was used to construct the | | |
| | Stradbroke Islands | training wall about 6 mi above | | |
| | $(to 1898).^3$ | Lytton. By 1899, this cutting | | |
| | () | was completed. ¹ | | |
| | | New Indooroopilly railway | | |
| | | bridge opened. First half of | | |
| | | Victoria Bridge opened. ³ | | |
| 1897 | | To assist compass adjusters, | Future spoil from | The Navigation Act of 1897. ¹ |
| | | beacons were erected at Mud | dredging to be deposited | |
| | | Island indicating the cardinal | behind training walls to | |
| | | and quadrantal points of the | reduce carrying distance | |
| | | compass. The suction dredge | and allow for land | |
| | | Bonito commenced dredging in | reclamation. ¹ | |
| | | the South Brisbane Reach and | | |
| | | then went to Bulimba Reach | | |
| | | dumping sand at Eagle Farm | | |
| | | Flats which was then pumped | | |
| | | ashore by the pump dredge | | |

| 1898 | Flooding of the river during the early part of the year. Flood height at the Port Office gauge = $20^{\circ}3^{\circ}$, Jan 13. Flood height at the Port Office gauge = $14^{\circ}6^{\circ}$, Mar | stationed there. Work commenced on scheme to improve river, including training and regulation of lower reaches, dredging and cutting off certain points. ¹ Bridge over Brisbane River at Mt Crosby finished (destroyed 1898). Lytton Rocks blasted. By this time, South Brisbane wharves stretched from Kangaroo Point to Victoria Bridge. New Victoria Bridge opened (replaced 1969). ³ In conjunction with dredging, and to direct and regulate water flow in the lower portion of the river, training walls were constructed and certain points were cut off. Construction of training walls commenced in March with the first wall at Hamilton. Walls had a top | The suction dredge <i>Cleveland</i> pumped silt behind Hamilton training walls. ¹ | |
|------|--|---|---|--|
| | at the Port Office gauge = 20'3", Jan 13. Flood height at the Port Office | constructed and certain points were cut off. Construction of training walls commenced in March with the first wall at | walls. | |
| | gauge = $14^{\circ}6^{\circ}$, Mar 9. ¹ Drought until 1903 (A). | Hamilton. Walls had a top width of 4' with a 1.25-1 slope and comprised of one-man sized stone pieces. A trench 6-8' deep was dredged through the sand | | |
| | | bank to receive the stone. Stone came from the Kangaroo Point quarry and with footing support | | |

| | | using Lytton Rock cutting spoil. The growth of the River Bar seaward had been rapid. This was shown at the Pile Light which was built on the 18' contour in 1884, and in 1898 it | | | |
|------|---|--|---|--|---|
| 1000 | | stood on the 11' contour. ¹ | | Y 1 · 1 1 · 1 | |
| 1899 | | A floating navigation light was placed at the turning point between the Inner Bar and Pelican Bank cutting. The Lytton Rocks cutting was completed with a width of 300' and depth of 20' at LW. River channels deepened to 20' below LW and 200' wide, so large vessels could reach wharves at Town and other Reaches easily. ¹ | | Low lying areas behind many of the training walls afforded admirable receptacles for large quantities of dredge spoil. ¹ | |
| 1900 | A Marine Biologist, James Tosh, was appointed by the Marine Board to advise on all matters in connection with pearl shell and edible oysters, and on the fisheries of the colony. | As there was insufficient water at most wharves in Pinkenba Reach, large vessels used to moor nearby where the depth was dredged to 24' below LW. Kangaroo Point was cut back to allow safer navigation around this point. The Hamilton training wall was completed at 8,600' in length. The Doughboy wall was commenced. New | Coal was becoming an important item for export. ¹ | Some spoil from Kangaroo Point was dumped at Coxen Point Wall while the bulk was dumped in the bay. ¹ | Pressure from ship owners and masters of overseas vessels called for: 1) provision at wharves for vessels to lie afloat at all stages of the tide; 2) increased wharf and shed accommodation and modern loading appliances; and, 3) provision of better facilities for loading of coal. ¹ |

| | Increase in the | wharf completed to replace old | | |
|------|--------------------------|---|------|---------------------------------------|
| | market for Moreton | Port Office wharves. Every | | |
| | Bay oysters. Water | effort was made, by the | | |
| | hyacinth became a | construction of training walls | | |
| | troublesome pest in | and dredging, to bring ships up | | |
| | the Brisbane and | river to established wharves in | | |
| | Bremer Rivers. The | Town and South Brisbane | | |
| | weed interfered | Reaches. However, as ships | | |
| | with navigation and | increased in size the difficulties | | |
| | stopped traffic in | increased in getting them | | |
| | the Bremer. The | upstream for depth and | | |
| | only control was to | manoeuvrability. Wharf space | | |
| | physically remove | and shore access was also | | |
| | the vegetation and | increasingly congested. For | | |
| | dry it on the river | these reasons, gradually new | | |
| | bank. ¹ | facilities were built downstream | | |
| | Attempts to revive | in Bulimba and Hamilton | | |
| | the dugong industry | Reaches. ¹ | | |
| | at Amity Point in | River widening since 1900 to | | |
| | the period 1901- | improve navigation & flood | | |
| | 1910 were | mitigation has removed about | | |
| | hampered as | 22ha of river bank. ² | | |
| | numbers were so | Temporary sandbag weir built | | |
| | low. ² | across river due to drought. ³ | | |
| 1901 | On January 1 the | At Lytton Rocks cutting, drilling | | Proclamation for the implementation |
| | Commonwealth of | and blasting was done to | | of fishing exclusion zones at certain |
| | Australia was | increase the depth to 26'. | | months in Moreton Bay to protect |
| | proclaimed. ¹ | Gardens Point was cut back to | | spawning fish. ¹ |
| | | allow safer navigation around | | |
| | | the point, increasing width to | | |

| | | 250'. Work then ceased here until 1913. Training walls were constructed through and along Parker Island. Preliminary work for removing part of SE side of Parker Island for better navigation started. Work included: cutting mangroves (used for mattresses for river improvements) and opportunistic dredging. The SE side of the island had to be dredged away over the next eight years. The Coxen wall extending to Parker Island was commenced in February. Two small dredge plant jetties were erected in front of Marine Dept. at Hamilton. Timber wharf constructed at Pinkenba Wharf. Part of bottom of South Brisbane Dry Dock concreted over (previously, natural rock surface). ¹ | | |
|------|---|--|--|---|
| 1902 | Brisbane was declared a city. ⁶ | The Parker wall was commenced in January and completed by September with length of 2,890'. The Doughboy wall was completed in June with a length of 7,040'. | | Regulations stipulated minimum length for controlling fish size of marketed product. ¹ |

| | | The Coxen wall was completed in June with a length of 3,200'. Mangrove 'mattresses' were used to reduce subsidence. The Lytton wall was commenced in September. ¹ First concrete weir for town water supply constructed at Mt. Crosby and introduction of river gauges. ^{2, 3} Temporary sandbag weir rebuilt across river due to drought. ³ | | |
|------|--------------------------------------|--|--|--|
| 1903 | Great Drought ended. ³ | The channel depth up to Pinkenba was increased to 24' at LW. The new cutter-suction dredge, <i>Hercules</i> , pumped stiff solidified mud together with clay in many parts of the river and in the new bar cutting. At Hamilton the dredge encountered clay which proved too hard for the machine and she was re-assigned to work at Eagle Farm cutting, then Queensport, and then Quarries Reach. The dredge had trouble there also with coarse sand overlying mud and hard dry clay. The Bulwer wall commenced in July but then discontinued (resumed | <i>Hercules</i> was frequently used to pump ashore spoil dumped previously in the dump hole at Coxen Point. ¹ Following construction of the Bulwer wall, sand was progressively pumped to fill the space between Bulwer Island and Pinkenba, eventually joining the island to the mainland. Also, filling was commenced to expand the island out towards the training wall (until 1946). ⁵ | |

| | | 1905). Lytton wall | | |
|------|---|--|--|--|
| | | discontinued. ¹ | | |
| 1904 | Prawn trawling was fairly successful in the river, as well as collection of mud crabs. ¹ | The grab dredge restored the upper river depth to 4' at LW at Daly's Flats, Junction Shoal, the Moggill Race and Cockatoo Island Crossing to assist the considerable number of barges using the river, chiefly carrying coal. Many of the dredge plant were laid up and little work was done. <i>Hydra</i> recommissioned to clean up old Quarries Reach Cutting. ¹ Even by 1904 combined effects of dredging the mouth of the river and constructing training walls increased mean tidal range by 0.25 m. ² | | The Fisheries Act of 1904-7 sought to provide for the marketing of fish. ¹ |
| 1905 | | To facilitate access to wharves in South Brisbane and Town Reaches, a considerable area was dredged to a depth of 20- 24' at LW. Siltation was rapid in these so on-going maintenance was essential. The Lytton wall was completed and raised to 6' above LW. Bulwer wall resumed. <i>Hydra</i> | | |

| 1906 | Water hyacinth again became a troublesome pest in the Brisbane and Bremer Rivers. A lack of flooding had apparently led to its accumulation. The same method was used to control it. ¹ | successfully cleared clay from Hamilton Reach. <i>Hercules</i> worked on new Quarries Reach Cutting, where there was hard dry clay in places, difficult to dredge. ¹ Almost all dredges in operation. A 24' channel had been dredged from the Bar to Kangaroo Point – "a truly memorable achievement fully deserving of perpetuation in the maritime annals of this city and state'. The dredge <i>Cleveland</i> was refitted for submarine rock drilling and operated in Lytton Rocks Cutting. Bulimba Point was cut back to allow safer navigation around the point. Spoil removed was mostly clay. Channel width increased from 500' to 700'. The Hamilton wall was raised to 10' above LW. The Bulwer wall was completed with an upper level of 6' above LW. ¹ First Bulimba wharf constructed at Teneriffe. ³ | | |
|------|--|--|--|-------------------------------|
| 1907 | Size and number of | Removal of part of Bulimba | | Legislation gave the Dept. of |

| | vessels visiting port | Point continued. Depth of 24' | | Harbours and Marine the authority to |
|------|---|---|--|--------------------------------------|
| | had increased | LW and width 300' available | | force land owners to protect their |
| | beyond available | from Bay to Town Reach. | | river banks. ¹ |
| | wharf | South Brisbane and Town | | |
| | accommodation. ¹ | Reaches experienced rapid silt | | |
| | | deposition, making it difficult to | | |
| | | retain depth. Large wharf | | |
| | | (Dalgety's) erected on New | | |
| | | Farm side of Bulimba Reach, | | |
| | | helping to relieve congestion of | | |
| | | the Town and South Brisbane | | |
| | | Reaches. Banks were protected | | |
| | | with light random stone | | |
| | | revetment. Work was carried | | |
| | | out by the Dept. at cost to the $\frac{1}{1}$ | | |
| | | owners. ¹ | | |
| 1908 | Flooding of the | Lytton Rocks cutting was | | |
| | river in March but | widened to 400' and depth of | | |
| | recorded as slight. | 26' at LW with further drilling | | |
| | This flood brought | and blasting up to 1911. Rock | | |
| | down enormous | blasted and removed from | | |
| | amounts of | Custom House Rocks. Further work in 1910 and 1911. Work | | |
| | hyacinth. Again the control was removal | | | |
| | and drying. Shire | commenced on a new cutting (and pile light) across the Bar. | | |
| | Councils in the | The Old Bar was being | | |
| | upper catchments | lengthened considerably with | | |
| | were urged to | increased depths since axis was | | |
| | control the weed in | tangential to the 26' contour and | | |
| | the small water | the only way to get to that depth | | |
| | the small water | the only way to get to that depth | | |

| | courses upstream. | would have been to make a | | |
|-------------|-----------------------------|--|---------------------------|--|
| | Flood height at the | bend. Furthermore, the Old Bar | | |
| | Port Office gauge = | Cutting required considerable | | |
| | 14'9", Mar 15. ¹ | maintenance. Dredges | | |
| | , | Maryborough, Hydra and | | |
| | | <i>Hercules</i> were used to dig a | | |
| | | channel 400' wide and 24' deep | | |
| | | at LW. The New Bar Cutting | | |
| | | was completed in 1912. ¹ | | |
| | | Bishop Island formed by | | |
| | | dredging at the Brisbane River | | |
| | | mouth (to 1910). ³ | | |
| 1909 | | Groper worked at removing silt | | |
| | | deposits from dredged area at | | |
| | | Kangaroo Point. Much of SE | | |
| | | side of Parker Island cut back. ¹ | | |
| | | Railway Wharf constructed at | | |
| | | Pinkenba. ^{1, 3} | | |
| | | Capricorn Wharf built at New | | |
| | | Farm. ³ | | |
| <u>1910</u> | | With the exception of the Outer | Since hopper barges were | |
| | | Bar Cutting and Lytton Rocks | not equipped to pump | |
| | | Cutting which were 300' wide, | spoil ashore, the spoil | |
| | | the dredged channels of over 15 | was dumped in 'dump | |
| | | mi had a depth of 24' at LW and | holes' in the river or in | |
| | | minimum width of 400'. | the bay. These holes in | |
| | | Bulimba Point was cut back | the river were dredged | |
| | | further to allow safer navigation | out once or twice a year | |
| | | around the point. Borthwick's | and the spoil pumped to | |

| | | wharves in course of erection near Queensport. Further drilling and blasting of rock for deepwater berth at Kennedy Wharves, Petrie's Bight and at Doughboy Rock patch. ¹ | | reclamation areas behind the river walls. ¹ | |
|------|--|---|---|---|--|
| 1911 | | Further width of 100' was removed from Parker Island to facilitate the swing of large vessels berthing at Borthwicks Wharf. Lytton Rocks Cutting finally cleared to depth of 26', width 400'. Concrete section of Pinkenba wharf constructed. ¹ | Brisbane area population 175,487 in 36,502 dwellings (city census total 146,991). ³ | | |
| 1912 | Dredging operations were affected by major industrial action at the time. ¹ | The new stern suction dredge <i>Remora</i> assisted in dredging the new bar cutting. The New Bar Cutting was open for navigation providing a straight outlet to the sea. The Pile Lighthouse was re-positioned on new piles at the 5 fathom (30') contour at LW outside the bar. The bottom was soft mud down to 35' noted by the piles being installed sinking 20' under their own weight. The site was supported by 5,000 tons of coarse sand dredged from near Garden Point. The | Town planning movement became influential. ³ | Dredge spoil from the inner end was pumped above HW to form Bishop Island which acted as partial protection to the cut from S-SE wave action. ¹ Construction of training walls, reclamation works and removal of points and restrictions along lower reaches to city reach completed. ² Bulwer Island spit reclaimed until 1929 | |

| 1913 | The largest steamer to have visited Australia, <i>Nestor</i> , safely berthed at Bulimba. The port of Brisbane was | lighthouse was equipped as a signal and telephone station. New channel leads on Bulwer Island consisted of two lighthouses. Bulimba Point was cut back still further to allow safer navigation around the point. River width was increased from 600' to 1000' between LW lines. ¹ Construction of retaining walls along Breakfast Creek started by Town of Hamilton. ³ The old Pile Light was discontinued and the new one put in use in February. Large vessels in excess of 14,000 tons and 500' long were able to safely make their way unassisted | (previously, it had been without spit and covered with dense low mangroves). ⁵ | |
|------|---|---|--|--|
| | safely berthed at Bulimba. The port | vessels in excess of 14,000 tons | | |
| | considered equal to any in the country. Rains early in the | up the river and berth at Bulimba Point. Gardens Point was cut back further to allow | | |
| | year again brought down enormous amounts of hyacinth. Again | safer navigation around the point. Bulimba Point cut completed. ¹ | | |
| | there was serious impediment to navigation downstream. ¹ | | | |

| 1914 | Australia at war until 1918 resulted in a decline in overseas and coastal trade until 1920. Rains early in the year brought down additional large amounts of hyacinth. River navigation was seriously affected where 12 miles of the river was covered from bank to bank concealing large logs and snakes. Physical removal was the | Minor dredging was done in the upper river with a grab dredger. Lack of resources and supplies made it almost impossible to maintain the dredge plant and to maintain channel maintenance. ¹ | | The Coxen Point 'dump hole' was abandoned after extensive use. A new dump hole was dredged out by <i>Hercules</i> in Aquarium Passage to receive spoil from Town and Upper Reaches. This spoil was to be used to reclaim nearby mangrove flats, and behind the Bulwer Island wall. ¹ | The Fish and Oyster Act of 1914 sought to close loop holes evident in the old Acts, and to stipulate that everyone taking fish with a net, for sale or not, was required to have a licence. ¹ |
|------|---|--|---|--|---|
| 1915 | only control used. ¹ | The <i>Remora</i> was used to deepen the New Bar Cutting to 26' at LW. Gardens Point was cut back still further to allow safer navigation around the point. ¹ Bowen Bridge reconstructed in reinforced concrete. Dredging and walling of Gardens Reach boundary of Botanic Gardens. Construction of Lytton jetty | Tar sealing of city streets commenced. Residential growth stimulated by tramways in outer areas. ³ | Spoil was dumped in the Aquarium Passage dump hole. ¹ | |

| | | commenced. ³ | | |
|------|--|---|--|--|
| 1916 | | Further works on the removal of Parker Island were done by the hydraulic dredger <i>Casuarina</i> and the <i>Platypus</i> up to 1918. The width of river was increased by 350'. The small grab dredge was used in the upper river particularly in Pope's Reach to 6' at LW. Reinforced concrete wharf and retaining wall for Fish Market at South Brisbane commenced. ¹ BCC concrete wharf built at Petrie Bight between Boundary St and Kennedy wharves. ³ | commenced on building sewers in city and inner | |
| 1917 | Water discolouration in the river was thought due to wave action disturbing fine sediment on the outer bar and spring tides carrying the suspended matter upstream. Observations were started to determine the amount of | After excavation of Gardens Point, the river was widened from 500' to 800'. The South Brisbane Fish Market and wharf was completed. ¹ Creation of Mt Crosby sedimentation basin to improve water quality. ³ | Saltwater cleansing of Brisbane streets commenced. ³ | |

| | suspended sediment in the river, sampling during | | | |
|------|--|--|--|--------------------------------|
| | winter in calm | | | |
| 1918 | weather. ¹ Storm water and | Seawall construction at Sutton's | | The Fish and Oyster Amendments |
| 1910 | street runoff | beach, Redcliffe Peninsula. ² | | Acts of 1918. ¹ |
| | entering river | Trenches dug in river to | | Acts 01 1710. |
| | through various | maintain water supply during | | |
| | sewers. | drought. ³ | | |
| | Observations of | | | |
| | suspended | | | |
| | sediments showed | | | |
| | larger amounts were | | | |
| | along the wharves | | | |
| | in Town Reach. | | | |
| | The clearness of the | | | |
| | water for most of | | | |
| | the time was | | | |
| | described as | | | |
| | sufficient to permit | | | |
| | an object to be seen | | | |
| | at depths up to 2' | | | |
| | under the surface in Town Reach. Some | | | |
| | sewers at low water | | | |
| | discharged a black | | | |
| | offensive liquid but | | | |
| | its effect was | | | |
| | reportedly confined | | | |

| 1919 | to small areas. At Hamilton objects were visible at 4' below the surface. ¹ | Diver streightening works | | | |
|-------------|---|--|---|--|--|
| 1919 | | River straightening works substantially completed. In the Brisbane River, the points were controlled by dredging and the banks by walls. Thus, the lower reaches of the river from Brisbane to the bay were confined. ¹ | | | |
| 1920 | | Of the 21.4 statute miles of waterway from the 5 fathom contour in Moreton Bay at the entrance to the Brisbane River to Victoria Bridge, 16.4 miles was dredged. Over half the dredge spoil was dumped in Moreton Bay. The new Bar Cut and Lytton Rock Cutting had widths of 400' while all other cuttings were from 450-600' wide. Depths below LW datum were between 26-28' up to and including Bulimba Reach while above that depths were around 24'. ¹ | Medium to highrise buildings constructed for commercial and residential purposes (to World War II, then recommenced after war). ³ | Just less than half the amount dredged from the river was pumped ashore in reclamation areas along the river. ¹ | |
| <u>1921</u> | | | Brisbane area | | |

| 1922 | | The Cold Stores Wharf was completed at Hamilton. ¹ | population 257,905 in 53,648 dwellings (city census total 220,371). ³ Reconstruction of Central and South | |
|------|---|--|--|---|
| | | | Brisbane streets in concrete began. ³ | |
| 1923 | | The depth of the Lytton Rocks cutting was increased to 27' using the dredge <i>Hydra</i> . A berth at Pinkenba was dredged for an oil company. This was the first record of an oil company proposing to operate in the area. The Department of Health, concerned about the enormity of the rat population inhabiting the stone walls, attempted to have them rat proofed by grouting the spaces with cement. Work started on the Hamilton wall. ¹ First wharf constructed downstream at Hamilton. ³ | Sewerage system operated in city | |
| 1924 | A special punt, the <i>Hyacinth</i> , was used to control water | | | City of Brisbane Act established the Greater Brisbane. ⁶ |

| | hyacinth in the river. The coastal railway from Cairns to Coolangatta was completed. ¹ Mosquito fish were relocated to the | | | |
|------|---|--|--|--|
| | Brisbane River to try and alleviate mosquito larvae using these biological controls. ⁸ | | | |
| 1925 | In December 1924, there was no hyacinth in the tidal portions of the river but by May the river was thickly covered in the weed from Indooroopilly Bridge to Ipswich, a distance of around 32 miles. Rain in June flushed out the bulk into the sea where it died quickly. Number of overseas vessels to Brisbane increasing. ¹ | Commonwealth standard tide and dredger signals were adopted and used from November 1 st . The channel depth was increased to 26' at LW from the Pile Light to New Farm with a minimum width of 400'. New wharf attached to Hamilton Cold Stores and several wharves in Bulimba Reach enlarged. ¹ | South Brisbane connected to sewerage scheme via siphon pipes on the riverbed. ³ | |

| 1926 | Failure of summer | The width of the Lytton Rocks | | |
|------|-----------------------------------|---|--|---|
| 1720 | rain brought on | cutting was increased to 500'. | | |
| | drought. ¹ | Plant was used then to clear | | |
| | | Doughboy rocks below | | |
| | | Queensport which had a | | |
| | | minimum depth of 8'6" at LW. | | |
| | | This was deepened to 20'. Next | | |
| | | were Hawthorn rocks and | | |
| | | deepening in front of the | | |
| | | Railway Wharf at South | | |
| | | Brisbane. Breakfast Creek was | | |
| | | made navigable and provide a | | |
| | | sheltered mooring basin for | | |
| | | small craft by clearing of | | |
| | | obstacles and dredging to 4'6" at | | |
| | | LW. Hamilton dredge plant | | |
| | | jetties rebuilt. ¹ | | |
| | | Second (present) weir | | |
| 1005 | | constructed at Mt. Crosby. ² | | |
| 1927 | Moreton Bay was | Mt Crosby weir abutment | | An Order in Council was issued |
| | patrolled by two | washed out with flood. ³ | | under the provisions of the Fish and |
| | vessels with Fishing | | | Oyster Act of 1914, increasing the |
| | Inspectors to make sure fisherman | | | minimum size at which all fish could be taken. ¹ |
| | complied with the | | | Brisbane River Tidal Lands |
| | Fisheries Act and | | | Improvement Act. ³ |
| | regulations. Flood | | | improvement Act. |
| | height at the Port | | | |
| | Office gauge = | | | |
| | 9'4", Jan 28. ¹ | | | |

| 1928 | Strong freshwater | Dredges Remora, Hydra, | Sealing of Pacific | |
|------|----------------------|-----------------------------------|------------------------|--|
| | flows in the early | Maryborough and Platypus II | Highway was | |
| | part of the year | were used to restore | underway. ³ | |
| | caused deposits of | navigational depths after the wet | 2 | |
| | silt in dredged | season. Similar work was | | |
| | channels as far | required after each wet season. | | |
| | down as Pinkenba. | The points, Gardens, Kangaroo | | |
| | Flood height at the | and Bulimba, had extended mud | | |
| | Port Office gauge = | banks after the strong wet flows. | | |
| | 9'3", Feb 22. Flood | These also needed to be dredged | | |
| | height at the Port | regularly to maintain channel | | |
| | Office gauge = | depth and width. ¹ | | |
| | 10'10", Apr 21. | Construction of Grey St Bridge | | |
| | The first Australian | commenced. Bretts Wharf | | |
| | Fisheries | constructed at Hamilton (re- | | |
| | Conference. The | developed 1994). ³ | | |
| | review by TC | | | |
| | Roughley on the | | | |
| | oyster grounds and | | | |
| | industry in | | | |
| | Queensland. UQ | | | |
| | postgraduate, FW | | | |
| | Moorehouse was | | | |
| | specially | | | |
| | commissioned by | | | |
| | the Marine Dept to | | | |
| | join the British | | | |
| | Royal Society | | | |
| | Expedition to Low | | | |
| | Isles. ¹ | | | |

| 1929 | Downturn in the | By this time, the Port of | The Dept of Harbours | Dept. of Harbours and Marine was |
|------|-----------------------------|---|----------------------------------|------------------------------------|
| | economy again. | Brisbane was well marked for | and Marine realised that | formed in January amalgamating the |
| | Some dugongs were | navigation and few new lights or | new lands around the | earlier departments of Marine, and |
| | still being caught in | buoys were required. The river | lower reaches of the river | Harbours and Rivers. ¹ |
| | the bay mainly for | was still being developed and | would increase in value | |
| | oil. Mr | regulated. By 1959, training | over the years, especially | |
| | Moorehouse | wall phase was drawing to a | since there was a | |
| | appointed as Marine | close, and removal of | growing demand for | |
| | Biologist to | backwaters and preparation of | berths for larger and | |
| | investigate marine | lower reaches for commercial | larger vessels. The | |
| | problems in | use was almost complete. | reclamation of lands | |
| | Queensland | Reportedly, the placement of | around Pinkenba and | |
| | fisheries. The focus | training walls had removed | Hamilton were the first | |
| | was on trochus, | backwaters that had sapped the | step in this process. Just | |
| | sponges, good fish, | energy of the tidal and flood | over a third of dredge | |
| | turtles and oysters. | flow and the river was now both | spoil was pumped ashore | |
| | Flood height at the | navigable and virtually self | by the <i>Remora</i> mostly | |
| | Port Office gauge = | flushing. At this time, the depth | into the reclamation area | |
| | 9'10", Jan 24. ¹ | was 26' at LW from the bay to | above Lytton where the | |
| | | Bulimba, and 24' up to Victoria | training wall had to be | |
| | | Bridge. Dredging in entrance to | raised from 5 to 10' | |
| | | Wynnum Creek. ¹ | above LW. The rest of | |
| | | Bulwer Island lighthouses built. ⁵ | the spoil was dumped in | |
| | | | the bay. ¹ | |
| 1930 | The standard gauge | Lighting of buoys was converted | New jetty and dolphin for | |
| | railway from NSW | from carbide gas to acetylene | pumping station just | |
| | to South Brisbane | gas. ¹ | below Cold Stores Wharf | |
| | was opened in | In 1930's, relief work in | built to enable Remora to | |
| | September. | Sandgate included construction | discharge ashore and | |
| | Interstate transport | of retaining walls, concrete | reclaim land there. ¹ | |

| 0 | of goods was no | seawall, shark-proofing and | | |
|---|----------------------|------------------------------------|--|--|
| | onger solely taken | mangrove reclamation. ³ | | |
| | by sea. The | | | |
| r | elationship | | | |
| t | between railways | | | |
| 8 | and ports was no | | | |
| 1 | onger solely | | | |
| | compatible, and it | | | |
| | nad become | | | |
| | competitive both for | | | |
| | nterstate and | | | |
| | within-state | | | |
| | ransport. This | | | |
| | applied more | | | |
| | proadly again | | | |
| | considering the | | | |
| | comparable increase | | | |
| | n road transport. A | | | |
| | regular air service | | | |
| | was established by | | | |
| | ANA between | | | |
| | Sydney and | | | |
| | Brisbane. Mud | | | |
| | worm disease still | | | |
| | badly affected | | | |
| | byster production. | | | |
| | A Marine Biologist, | | | |
| | FW Moorehouse, | | | |
| | was commissioned | | | |
| t | to investigate the | | | |

| 1931 | problem and provide recommendations. He established a station on Stradbroke Island in March until July. ¹ The worldwide economic depression seriously affected local economies, employment and trade. Flood height at the Port Office gauge = $14'8"$, Feb 7. ¹ | Hamilton training wall repaired. It had been damaged by the public who had removed large amounts of stone. ¹ Pacific Highway bridge across Logan River. ³ | | |
|------|--|--|--|---|
| 1932 | Large numbers of turtles were captured during the breeding season on islands off Gladstone and shipped to Brisbane for use in soup manufacture. This industry died out after 1933. ¹ | The dredge <i>Platypus II</i> in conjunction with <i>Hydra</i> commenced deepening the Bar Cutting, Pelican Bank Cutting and Lytton Cutting to 30' at LW. Rat proofing of training wall fronting Botanical Gardens. ¹ Grey St Bridge (later renamed William Jolly Bridge) opened, connecting North Quay and South Brisbane. ^{3,6} | Lytton wall was raised in preparation for future reclamation. The mangrove and saltpan behind the Hamilton wall and below the Cold Stores was rapidly converted into dry land. ¹ | The Fish and Oyster Amendment Act of 1932 sought to control fishing using explosives and noxious chemicals. About this time, push nets for catching prawns in the Brisbane River were made legal. ¹ |

| 193: | Gale conditions experienced during February. ¹ | In Quarries Reach, <i>Maryborough</i> and <i>Hydra</i> dredged a depth of 29' at LW. ¹ Planning for construction of Story Bridge commenced. ³ | Brisbane area population 341,625 in 79,232 dwellings (city census total 299,748). ³ | Reclamation fronting Hemmant was faced with stone which improved the appearance of Lytton Reach. Reclamation and log walling at Wellington Point. ¹ | |
|------|---|---|---|--|---|
| 1934 | In January, a public scare occurred with people fearing that oysters caught off the mouth of the river were infected with typhoid bacteria. Although no evidence was found connecting to the oysters, it was of concern that the farm beds were about one mile from Luggage Point and the sewer outfall. This scare and the already depressed market made it very difficult for the local oyster industry. Unusually large catches of sea | The <i>Maryborough</i> made two cuts through the South Brisbane and Town Reaches to clear a depth of 26' at LW with a width of 200'. Silting in these reaches had always been heavy. <i>Remora</i> was used almost exclusively on maintenance dredging in the three upper reaches. Late in the year, point cutting was undertaken at Kangaroo Point to create a regularised bend with 800' width of river around the curve. New bridge (Story Bridge) to cross bend almost symmetrically. Cutoff completed 1938. ¹ Petrie Bight wharves rebuilt as Brisbane Central Wharves, forming a curve know as Circular Quay. ³ | | Protective work was done on Bishop Island where the northerly foreshore had eroded with the high summer tides. Special leases were issued for reclaimed lands around the Hamilton wall for river frontage properties. A large amount leased to wool dumping company – constructed wharfage and accommodation. ¹ | To allay fears about contamination of oysters near the Luggage Point sewer outfall, this and adjacent banks were no longer granted a license and removal of oysters in the vicinity was prohibited under penalty. Fisherman were concerned at the time that Moreton Bay was being overfished, and called for controls to net fishing and area closures. By Order in Council net fishing was prohibited in the Port of Brisbane including Moreton Bay on Saturday to Sunday each week. ¹ |

| | mullet were taken in the bay. Brisbane River flood study. ¹ | | | |
|------|---|---|--|--|
| 1935 | A severe cyclone was experienced. After a period of nearly 10 years, water hyacinth, reappeared in the Bremer River after rains flushed it downstream. ¹ | Berth at Abattoirs Wharf cut down to 30' LW and Borthwick's Wharf berth to 26' by chiselling sandstone rock. ¹ Construction of Story Bridge. ³ | Occupation of the Hamilton lands was rapid with the installation of roads, roadside trees, water mains, power and lighting. ¹ | The Fish and Oyster Amendments Acts of 1935. The Fish Board was constituted by the Fish Supply Management Act of 1935. The Whaling Act of 1935 made provision for the regulation of whaling in Queensland waters from shore stations in Queensland. The licence allowed the taking of 600 whales in the season over 5 years commencing in 1952. ¹ |
| 1936 | By this time, line fishing had become very popular as recreation and sport. This resulted in several fishing clubs, and fishing clubs, and fishing competitions were extremely popular. This included big game fishing. The sale and marketing of fish in the Brisbane area was transferred to the | By this time, the depth of 30' at LW was obtained from the Bar Cutting up as far Upper Lytton Cutting. The diorite dyke at Lytton Rocks would take a bit more time. The Platypus II was able to remove very hard material. Realignment of wharves at Petrie's Bight and construction of central wharves. ¹ Coral dredging began at Mud Island. ² Breakfast Creek straightened and canalised for flood mitigation. Walter Taylor's | By this time, stone had been deposited and walls formed along the whole length as far up as Pinkenba. There was about 8,550' of wall planned. A new pumping station was established at Pinkenba by arrangement with the Shell Company of Australia for the use of their wharf to pump dredge spoil from Eagle Farm Flats, Pinkenba and Hamilton Reaches onto | Strict size limits were enforced on recreational fisherman as well as commercial operators, according to the Fish and Oyster Acts. ¹ Queensland Fish Board established. ¹¹ |

| | Fish Board in July. | bridge over Brisbane River | low lying land at | |
|-------------|-------------------------------|-------------------------------------|-----------------------------|------------------------------------|
| | Water hyacinth was | between Indooroopilly and | Pinkenba. ¹ | |
| | extremely plentiful | Chelmer opened. ³ | | |
| | in the upper reaches | | | |
| | of Bremer and | | | |
| | Brisbane Rivers. ¹ | | | |
| <u>1937</u> | Gale force winds | Trench dredged in Norman | Unloading the steam | The previous order prohibiting net |
| | and cyclonic | Creek for City Council sewerage | hopper of spoil for | fishing in Moreton Bay on Saturday |
| | conditions were | pipes. Berths at new wharves at | reclamation took the | and Sunday was repealed as it did |
| | experienced in | Newstead dredged to 29' in hard | same time as driving the | not produce an appreciable benefit |
| | February. | clay. Berth dredged for | hopper offshore and | and increase in the supply of |
| | Freshwater flows | Hornibrook in Town Reach. | dumping the contents in | marketable fish. ¹ |
| | carried water | Over 100,000 tons of | the bay. An additional | |
| | hyacinth | maintenance dredging at private | cost in reclamation was | |
| | downstream where | wharves over the year. ¹ | therefore the cost of plant | |
| | it was killed in the | | to pump the spoil ashore. | |
| | salty water of the | | From 1937 to 1938, | |
| | estuary around | | greater than 50% of | |
| | March. The | | dredge spoil from the | |
| | Queensland Game | | river was pumped to | |
| | Fishing Association | | reclamation of tidal lands | |
| | was formed in | | at Pinkenba, Hemmant | |
| | August. A | | and Lytton. The area | |
| | weighing station | | reclaimed at Hemmant of | |
| | was established at | | 144 acres was surrounded | |
| | Hamilton. ¹ | | by levees and ditches and | |
| | | | was almost above HW | |
| | | | but experienced | |
| | | | subsidence due to water | |
| | | | being squeezed from the | |

| | | | deposited material which | |
|------|-------------------------------|--|------------------------------|--|
| | | | was mostly mud. ¹ | |
| 1020 | I., I., I., | Desthisting the Drichers Discus | | |
| 1938 | In July, a mail and | By this time, the Brisbane River | More dredging spoil | |
| | passenger flying | cuttings from the bar to | pumped to Hemmant | |
| | boat service was | Pinkenba had been cut down to | reclamation. ¹ | |
| | extended to | 30' at LW, with the exception of | | |
| | Australia | Lytton Rocks where the depth | | |
| | connecting to | was 28' at LW. From Pinkenba | | |
| | Europe and | to New Farm the depth was at | | |
| | America via | 28' at LW. A small basin at the | | |
| | Singapore. The | end of the Parker Island wall | | |
| | first records of sand | was excavated for the | | |
| | crab fishing were | Commonwealth Government | | |
| | presented, at least | moorings for flying boats. This | | |
| | for commercial | was soon moved however. | | |
| | fisherman. ¹ | Wynnum Creek dredged again | | |
| | Queensland state | and protective wall built on E | | |
| | population passed | side of entrance channel to stop | | |
| | over 1 million. ¹¹ | sand and mud being washed | | |
| | | from nearby beach into cutting | | |
| | | (completed 1940). Construction | | |
| | | of training wall at Hamilton | | |
| | | Golf Links, Brisbane River. ¹ | | |
| 1939 | Australia at war in | In Brisbane River, electric | By this time, the general | |
| | World War II until | navigation lights were | layout of the reclaimed | |
| | 1945. Initially this | established in the upper reaches | Hamilton lands had taken | |
| | was a war in | at Oxley Creek and Carrington | place. Operations were | |
| | Europe. A cyclone | Rocks. Leads at crossover | commenced late in the | |
| | occurred in March. | below Indooroopilly Bridge. | year on drainage of the | |

| | A fertiliser and fish | The Mount Creaky Wein wee | | tidal lands between | |
|------|------------------------|-----------------------------------|-------------------------|-------------------------------------|--|
| | | The Mount Crosby Weir was | | | |
| | meal stock feed | found to prevent movement of | | Whinstanes and | |
| | production industry | mullet and other fish upstream, | | Meeandah which had | |
| | was established on | causing a serious decline in fish | | been resumed for port | |
| | the south bank of | numbers above the weir. The | | purposes in 1910-1913. ¹ | |
| | the river using | Brisbane City Council was | | | |
| | surplus and non- | persuaded to build a fish ladder | | | |
| | edible fish and fish | at the weir. A complete | | | |
| | offal. ¹ | examination of the river cuttings | | | |
| | | showed that dredged channels to | | | |
| | | 30' had deteriorated very little | | | |
| | | although no recent maintenance | | | |
| | | had been done. There was no | | | |
| | | flooding during this period | | | |
| | | however. ¹ | | | |
| 1940 | There was a marked | Deepening of the cutting at | 1940's rapid | Sub-divisional roads | |
| | increase in turbidity | Lytton Rocks was begun late in | urban | were constructed, leases | |
| | in the Brisbane | the year, but work was not | development and | negotiated and | |
| | River. The shortage | completed due to commitments | land clearing for | construction of further | |
| | of edible fish oils in | with the Defence Department. | agriculture and | industrial facilities were | |
| | Australia increased | Many naval wharves built over | grazing in upper | commenced. Reclaimed | |
| | demand for oil from | next couple of years in Brisbane | reaches caused | land between Hamilton | |
| | dugong and other | River (10 by 1945). Swinging | increased | training walls and Eagle | |
| | sources. ¹ | area abreast Abattoirs Wharf | siltation. ² | Farm Road used | |
| | Main sewer at | completed to 30' LW, 800' clear | | extensively for US army | |
| | Pinkenba collapsed, | room. Work began at Moar's | | and navy during war. | |
| | sewerage diverted | Slip, Kangaroo Point, | | Some reclaimed land at | |
| | at Eagle Arm into | constructing buildings, slipways | | Hamilton Wharf region | |
| | tidal channel until | and wharves for shipbuilding, | | leased to Wool | |
| | 1945. ³ | demolishing old wharves, | | Appraisement | |

| | | grading the riverbank, and | | Committee: wool shed | |
|------|------------------------|---|------------------|----------------------------|--|
| | | | | constructed. Also cold | |
| | | building retaining wall and | | | |
| | | storm water drainage system. ¹ | | store and road | |
| | | The Story Bridge was completed | | construction. ¹ | |
| | | and opened. ^{1, 3} . | | | |
| 1941 | Japanese air strikes | The flying boat moorings were | | | |
| | on Pearl Harbour | re-laid in the Hamilton Reach. | | | |
| | brought the war to | The cutting back of Kinellan | | | |
| | the Pacific and | Point (5.5 acres dry land) was | | | |
| | Australia in | begun. 300' fitting out wharf | | | |
| | December. ¹ | built at Moar's Slip, Kangaroo | | | |
| | | Point. Middle berth at Brisbane | | | |
| | | Central Wharves, Petrie's Bight, | | | |
| | | completed. ¹ | | | |
| 1942 | A huge influx in | Anti-submarine boom | | | |
| | troops, ships and | constructed across lower reaches | | | |
| | aircraft from the | near Lytton. Work on training | | | |
| | USA for the war in | wall construction ceased in | | | |
| | the Pacific | March but recommenced 1946. ¹ | | | |
| | continued until | Port facilities at Pinkenba and | | | |
| | 1945. ¹ | Hamilton expanded. ³ | | | |
| 1943 | Fisheries research | By this time, the lack of | Beginning of the | | |
| 17.5 | was carried out in | maintenance dredging had | Somerset's dam | | |
| | Moreton Bay by the | resulted in significant siltation | use in flood | | |
| | Fisheries Division | of the channels. In the Town | mitigation (B) | | |
| | of the Council for | Reach, the depth was only 20' at | minigation (D) | | |
| | Scientific and | LW. ¹ | | | |
| | Industrial Research. | L YY . | | | |
| | | | | | |
| | One investigation | | | | |

| 1944 | was of <i>Gracilaria</i> in the hope it may lead to a new industry. The algae is found commonly at the mouth of the Brisbane River. ¹ | Hamilton and Bulimba Reaches had silted badly and depths could only be maintained at 28' at LW. New 600' fitting out wharf built at Kangaroo Point for shipbuilders. Brisbane Graving Dock (Cairncross Dock, for ship repairing) built, dredged and opened at Colmslie (S side of lower end of Hamilton Reach). ¹ | | | |
|------|--|--|--|--|--|
| 1945 | Around this time, an Economic Museum organised by TC Marshall was established to show edible fishes of Queensland. ¹ | | High-level sewer built linking Eagle Farm and Luggage Point. ³ | The reclaimed land between Hamilton wall and the backwater had been extensively developed by 1945 for the use of the Royal Navy. The land had been given extensive top dressing, buildings and wharves erected and the area transformed into a | The Fish and Oyster Amendments Acts of 1945. ¹ |

| | | | naval repair base. ¹ | |
|------|---|--|--|--|
| 1946 | A cyclonic disturbance occurred in March causing a standstill to traffic in and around Moreton Bay for several days. ¹ Drought. ³ | By this time, most leading lights in the river had been converted to electric neon lights. Work recommenced at Lytton Rocks Cutting and a depth of 33' was obtained with a width of 100'. <i>Morwong</i> and <i>Remora</i> were returned to maintenance dredging up to Hamilton Reach. <i>Maryborough</i> worked on Bulimba Reach and Town Reach. <i>Hydra</i> and <i>Maryborough</i> commenced restoration of Bulimba Point. Further dredging upstream involved the blasting and dredging of a rock bar to 9' at LW (completed 1948). Further dredging in Wynnum Creek. Breast wharf at Brisbane Graving Dock extended and berth extended further, with drilling and widening. One jetty built at Hamilton for dredges, 2 at Parker Island. Wall construction recommenced with walls at Lytton and Bulwer being extended and raised. A | Two more pumping stations built at Hamilton reach and Parker Island. Pumping stations at Pinkenba and Lytton continued to be used by dredges when in that part of river. ¹ | |

| | | wall around Kinellan Point was made to face off the cut made | | | |
|------|--------------------------|---|------------------------|-------------------------------|--|
| | | | | | |
| | | earlier, and to beautify the site | | | |
| | | with graded lawns and trees. | | | |
| 1947 | Three periods of | New leads with neon lights were | The Naval | Levee banks to contain | |
| | strong freshwater | built at the lower end of the | wharves D, E and | spoil from pumping were | |
| | flow were | Eagle Farm Flats Reach. | F built on | formed by bulldozer. | |
| | experienced. The | Additions to South Brisbane Dry | reclaimed lands | This greatly accelerated | |
| | Harbours and | Dock to increase berthing space. | by Allied Works | work previously done by | |
| | Marine Department | Wall construction was done | Council for the | horse and scoop. ¹ | |
| | in conjunction with | from Lytton Wharf to Crab | Naval Authorities | | |
| | the CSIRO | Creek and Whyte Island, and on | during the war | | |
| | established a | Bishop Island. Further | were purchased | | |
| | Fisheries Research | deepening of the river was in | by the H&M. | | |
| | Station at | progress at Lytton Rocks and | These were then | | |
| | Dunwich. ¹ | Parker Island to achieve a depth | modified for | | |
| | | of 33' at LW. There was a great | commercial | | |
| | | effort put into maintenance | purposes. ¹ | | |
| | | dredging after the freshes, | Brisbane area | | |
| | | especially around Hamilton | population | | |
| | | Reach. All point cuttings had to | 457,462 in | | |
| | | be restored again. However, | 113,797 | | |
| | | large ships were no longer | dwellings (city | | |
| | | coming up to Town and South | census total | | |
| | | Brisbane Reaches. ¹ | 402,030). ³ | | |
| 1948 | In last years of | Wall construction, as designed | In the 1940s, the | Dredges Remora and | |
| | 1940's, Brisbane | by EA Cullen with Harbours | levels of siltation | Morwong pumped large | |
| | assumed role of | and Marine, were all but | had increased | amounts of dredge spoil | |
| | major port. ¹ | completed although work | alarmingly | onto reclamation areas | |

| | continued for several years raising, upgrading and maintaining lengths. <i>Maryborough</i> dredged the Town Reach. By this time, the blasting and dredging of the Lytton Rocks Cutting with a depth of 34' and 450' wide was completed. Less follow-up dredging in Town Reach and South Brisbane Wharves as large ships no longer came up this far. ¹ | possibly due to removal of trees and land clearing along the riverside for farms and housing development coupled with the heavy rains in the years 1947 to 1950. ¹ | behind the training walls. Large quantities of spoil were pumped ashore to reclaim the area between the old north bank of the river and Parker Island. Large section of land below Hamilton area was raised to 16' above LW. ¹ | |
|------|--|--|---|---|
| 1949 | The Pile Light was completely demolished in October when a tanker collided with the structure when entering the bar cutting. A temporary signal and telephone station was established on Bishop Island. Housing was provided with the buildings from Bulwer Island since the lights there had been converted to automatic gas lights. The damaged Pile Light was rebuilt with only a light and no accommodation. An automatic flashing light was established at Six Mile Rocks in the upper reaches opposite | | Two more pumping stations were established in Hamilton Reach and Parker Island. These and the earlier stations were used to pump spoil ashore where it was convenient to the dredging at the time. ¹ | A special committee, the Hamilton Lands Committee, was formed to investigate the layout of wharves, roads and railway lines from Hamilton to Pinkenba. ¹ |

| 1950 | For the first time a | Dutton Park. Many large and small jetties built in Brisbane. Maintenance dredging was unable to keep up with the siltation which had reduced channel depths by one to two feet in some reaches. Dredging in Hamilton and Bulimba Reaches, but difficulty maintaining depth. Borthwick's Wharf berth blasted and deepened to 28' LW to accommodate larger vessels loading frozen meat. ¹ | | Du og Order in Council groon turtler |
|------|---------------------------------------|---|---|--|
| 1930 | 4 fathom otter trawl | get the channel cuttings back to | | By an Order in Council, green turtles (<i>Chleonia mydas</i>) were declared |
| | was used in Moreton Bay. ¹ | pre-war depths. Siltation was a grave concern. Caisson of | | protected in Queensland waters. However it was still legal to collect |
| | | South Brisbane Dock repaired. ¹ | | turtle eggs. Net staking was |
| | | | | legalised for the foreshores of Fisherman Islands and Mud Island. ¹ |
| 1951 | Heavy rains and run | An automatic electric light | Reclamation works were | |
| | off in February. The water was | replaced the fixed oil light in front of the beacon in lower | still being done at Parker | |
| | charged with silt | Hamilton Reach. A uniform | Island, Hamilton and Pinkenba with suction | |
| | and with the faster | system of buoyage and dredger | dredges pumping into the | |
| | velocity of the river | signals for use in Australian | head of Hamilton Inlet. ¹ | |
| | in recent years silt | ports was adopted in June. | | |
| | was deposited | Lower reaches deepened to 31' | | |

| 1052 | Quarries and Eagle Farm Reaches instead of Pinkenba as was the usual case. ¹ | at LW. ¹ | | |
|------|--|--|---|--|
| 1952 | A whaling industry and factory was established at Tangalooma and licensed to catch 600 whales in the season. The first whale was killed in June. Oil was brought to storage tanks in the lower reaches of the Brisbane River. The industry collapsed after a few years. ¹ Otter trawling was introduced widely for catching prawns. ² | The Pile Light was automated with an acetylene light in October. The signal station at Bishop Island was retained. BHP's wharf extended upstream. Temporary wheat handling facilities installed at Pinkenba Railway Wharf. Ampol started using M-Wharf at Parker Island as tanker berth. ¹ Victoria Bridge to be replaced. ³ | A further pumping station was set up at wharf F to facilitate reclamation of Hamilton Inlet. ¹ | An Order in Council in June authorised the use of otter trawl nets for taking prawns in Queensland waters. ¹ |
| 1953 | River water silt content and salinity were examined and recorded. Monthly | Dredging was done at 17 Mile Rocks Reach to clear a shoal patch which had developed below the rocks. <i>Echeneis</i> | | |

| | samples were collected at Lytton, Hamilton and Town Reach. It was believed that silt was coming upstream from the river mouth. This was contrary to expectation that silt might come from upstream with the flow. Silt loads were found to be highest during high tide rather than low tide periods. Therefore silt dumped out in the bay could find its | joined <i>Remora</i> and <i>Morwong</i> dredging Town Reach to Hamilton. Parker Island M- wharf extended to suit tankers. Vacuum Oil company built modern tanker berth at Colmslie, just upstream from Abattoirs. ¹ Lighthouses on Bulwer Island converted to automatic gas flashing lights. ⁵ | | | |
|------|---|---|---|--|--|
| | way back into the river. ¹ | | | | |
| 1954 | A cyclone hit SE Queensland in February and caused severe damage and loss to the prawn fishery fleet. The GBR Committee | A wireless station was erected at Lytton for use of the pilot service and the Bishop Island station was closed. This station was later designated as the Control Tower for the Port of Brisbane. Only maintenance dredging was carried out in the | Brisbane area population 575,205 in 152,798 dwellings (city census total 502,320). ³ | Another pumping station was set up at Pinkenba to facilitate reclamation works. At this time, around 73% of dredge spoil was being used for reclamation with the rest being dumped in the | By this time, there were three fulltime Fisheries Inspectors stationed in Brisbane. In September, the Fish Board assumed some measure of control over the marketing of prawns. ¹ |

| | conducted a survey of Low Isles comparing results with the 1928 expedition. ¹ | river cuttings and berths, as well as the points upstream. Maintenance dredging at Pinkenba Wharf, Hamilton Reach, Bulimba Reach, Town Reach, Bulimba Point and Kangaroo Point. ¹ New Norman Creek Bridge opened. ³ Bulwer Island training wall built up (rocks cemented to keep rats out) and extended. ⁵ | bay. ¹ | |
|------|---|--|-------------------|---|
| 1955 | Frequent heavy rains were experienced in March (flood: 11'6''), and these carried particularly high silt loads from cultivation on banks in upper reaches, dumping sediment in the upper reaches. ¹ Eagle Farm sewerage pumping station and outlet operated at Luggage Point. ³ | A black buoy was placed near the Clara Rock buoy to mark the southern extent of the shallow water in the Lytton Rocks Cutting. Much dredging after flood. Removal of 15,000 tons per day was not sufficient to reverse a decrease in depth in the Hamilton Reach. Construction of Shell oil terminal at Pinkenba with berth 33', plans for 800' wharf. ¹ | | The Harbours Act of 1955 consolidated and amended earlier laws, and among other things sought to control reclamation, dredging & structures below high water mark. Foreshores and land lying under the sea within Queensland waters as well as lying under harbours were deemed to be the property of the Crown. Special leases for land lying below high water mark could be granted by the Governor in Council. The Fish and Oyster Amendments Acts of 1955 prohibited jags, gaffs and like apparatus from being used solely to catch fish. The Commonwealth Fisheries Acts of 1952 and 1953 were enacted. These |

| | | | | sought to regulate and control Australian fisheries, defining territorial limits of the states. ¹ |
|------|--|--|---|--|
| 1956 | Very wet period in early part of year. ¹ | The western and eastern Bar Beacons were replaced with a pile structure and automatic light. Dredges busy removing silt. Navigation depth from mouth to Pinkenba still only 24' LW: claimed not safe, too shallow. Cable trench dredged in Canoe Reach (up-river). | Dredged sand pumped ashore at Pinkenba. ¹ | |
| 1957 | | Eagle Farm Flats and Parker Island Cuttings had been widened to 450' and swinging basins enlarged. Further dredging by <i>Tridacna</i> in Wynnum Creek and Seventeen Mile Rocks, as well as approach and basin at Manly in preparation for small harbour. ¹ New bridge constructed at Breakfast Creek. New Indooroopilly railway bridge completed. ³ | | Licenses were issued for the removal of shell grit and coral, restricting the location and types of equipment used. In February, an exclusive licence was granted to QCL to take coral from Mud Island which it did do until 1983. After this it moved this operation to St Helena Island, where it continued until 1988. The Fisheries Act of 1957 sought to consolidate and update all Queensland fisheries namely, whaling, pearling, oystering and others. ¹ |
| 1958 | An exceptionally dry early summer | Pinkenba and Upper Lytton Cuttings were widened by | | The Queensland Marine Act of 1958 sought to control and regulate |
| | meant that there | bucket dredges, Groper and | | merchant shipping. The Canals Act |

| | was some cessation to channel | <i>Platypus II</i> . Installation for bulk handling of wheat completed at | | 1958 sought to control canal developments. ¹ |
|------|---|---|--|--|
| | siltation. ¹ | Pinkenba Railway Wharf. ¹ | | |
| 1959 | | Somerset Dam completed. ² | | There continued to be three fulltime Fisheries Inspectors stationed in Brisbane. ¹ |
| 1960 | The use of ports had changed. Passengers were far fewer and trade was more international with bulk cargos. Ports had to change to meet this new demand. ¹ During February and March, diatom (<i>Melosirag</i> <i>ranulata</i>) blooms were recorded in the upper estuary. Later that same year and again in 1963, very large blooms of the diatom (<i>Coscinodiscus</i> <i>centralis</i>) were recorded in the estuary. ⁸ | The least depth of water in the river channel up to New Farm was 26' at LW. Rock removed from Seventeen Mile Rocks and placed along banks as river wall. Two walls (Bulwer Island and Fisherman Islands) remaining to complete wall development of lower Brisbane River, although some others needed raising and finishing. South Brisbane Railway Wharf (coal wharf) demolished in 1960's to make way for Captain Cook Bridge. ¹ | Active filling and mangrove expansion towards Bulwer Island training wall. ⁵ | The Pollution of Water by Oil Acts of 1960 to 1961 provided penalties for oil spillage in Queensland. ¹ |

| 1961 | The 1961 census | Commencement of considerable | Dispersal of | Much reclamation of | |
|------|--|--------------------------------------|-------------------------|------------------------------------|--|
| | taken in | development and wharf | industry from | tidal wetland started at | |
| | Queensland. | construction. Extension to | CBD to outer | Bulwer Island, from spoil | |
| | Population of | Stevedoring and Wool Dumping | industrial areas | adjacent to site, and from | |
| | 1,518,828. ¹ | general cargo wharf in | and estates (60's | various cuttings. Total | |
| | Closure of the | Hamilton. ¹ | and 70's). ³ | area of 500 acres to be | |
| | Tangalooma | Moogerah Dam completed. ² | | made available to Amoco | |
| | whaling station. ² | | | for tanker terminal and | |
| | , in a second se | | | refinery. Before | |
| | | | | reclamation, 170 acres of | |
| | | | | mangroves had to be | |
| | | | | cleared, and sand | |
| | | | | pumped to raise level. | |
| | | | | Amoco to build refinery | |
| | | | | on reclaimed land on N | |
| | | | | bank of Bulwer Island. | |
| | | | | This required extensive | |
| | | | | reclamation, with fill | |
| | | | | pumped to island by | |
| | | | | suction dredges. ¹ | |
| | | | | By this time, 260,000 | |
| | | | | cubic yards of fill had | |
| | | | | been pumped onto | |
| | | | | Bulwer Island. ⁵ | |
| 1962 | | Seventeen Mile Rocks cutting | | 200 acres of Bulwer | |
| | | deepened to 5'6'' in LW and 90' | | Island cleared for future | |
| | | wide. Amoco and Phillips | | Amoco refinery. ⁵ | |
| | | Petroleum built oil terminal in | | First areas of Amoco | |
| | | Pinkenba Reach. Wharves | | refinery property on | |
| | | constructed by Ampol and | | Bulwer Island filled. ⁵ | |

| | Amoco to serve oil refineries at river mouth. Many old unsightly wharves removed along river. ¹ | | | |
|------|---|--|--|--|
| 1963 | New suction dredge <i>Saurian</i> commenced work. Rehabilitation of South Brisbane Graving Dock commenced. ¹ | | Saurian worked on reclamation at Bulwer Island and then reclamation in vicinity of river for wharf and industry. ¹ Entire northern end of Bulwer Island cleared of mangroves. Felled mangroves left on site and covered with sand. ⁵ | |
| 1964 | Developmental dredging and maintenance dredging up to and including Bulimba Reach, approaches to Amoco Wharf, deepening of Parker Island Cutting and Hamilton Reach, and new berth for BHP wharf extension at Hamilton. Dredging of Bay channels and swing basin at Luggage Point. Construction of Ampol product wharf at Lytton. Upstream section of South Brisbane Railway Wharf reconstructed. ¹ | New BCC building code facilitated highrise development. Centenary Bridge opened Jindalee area up for suburban development. ³ | Further 200 acres of reclamation at Bulwer Island pumped from river deposits. Approximately half of spoil from river dredging works pumped ashore, half dumped in Bay. Dredge spoil from Bar Cutting and Luggage Point swing basin pumped to reclamation on Fisherman Islands. Spoil from Ampol Terminal Berth pumped | |

| | | Centenary Bridge over river in | to reclamation on Ampol | |
|------|---------------------|---------------------------------|--------------------------------------|--|
| | | Jindalee area. ³ | Refinery site. ¹ | |
| | | | Major construction of | |
| | | | refinery on Bulwer Island | |
| | | | began (completed 1965). ⁵ | |
| 1965 | Planning for future | Further removal of the | Area (1 acre) upstream of | |
| 1700 | development of Port | Seventeen-Mile-Rocks, | ACF and Shirley's Wharf | |
| | of Brisbane from | dredging new channel on S side | and downstream of | |
| | Bulimba Reach to | to 12' LW. The port was | Pinkenba Wharf | |
| | mouth. Needed | prepared for the larger modern | reclaimed by landfill of | |
| | larger dredge fleet | ships, especially tankers. From | ash and breeze – leased | |
| | to keep up with | the Pile Light to Luggage Point | to ACF and Shirley's. | |
| | maintenance | depth of 38', Luggage Point to | Dredges continued to | |
| | dredging. Cabinet | Pinkenba depth of 28', Pinkenba | pump ashore to | |
| | decided South | to Norris Point depth of 27', | reclamation at Hamilton, | |
| | Brisbane Dock to | Norris to Circular Quay depth | Parker Island and Lytton. | |
| | be closed, | 22', and Circular Quay to | Stone and gravel | |
| | transferring | Victoria Bridge depth of 17'. | revetment of river | |
| | activities to | Cairneross Dockyard (Brisbane | frontage completed to | |
| | Cairneross Dock. | Graving Dock) upgraded. | prevent erosion of sand | |
| | Operations ceased | Improvements to M-Berth at | reclamation of Amoco | |
| | 1972. ¹ | Pinkenba but major | tank farm area. Final | |
| | 1972. | reconstruction required. Old | section of refinery lease | |
| | | Redbank Wharf demolished in | reclaimed at Bulwer | |
| | | Quarries Reach. ¹ | Island, pumping sand | |
| | | Ampol oil refinery opened at | from Boggy Creek. | |
| | | Lytton. ³ | Further reclamation in | |
| | | | area until 1967 for road | |
| | | | access, Brisbane City | |
| | | | Council Park, etc. Little | |
| | | | Council I aix, cic. Little | |

| | | | | sand for reclamation left in lower Brisbane River. Sand for Imperial Chemical Industries ammonia and fertiliser plant reclamation at Pinkenba taken from Moreton Bay, as not enough left in river. ¹ | |
|------|--|---|--|---|--|
| 1966 | W P W du du du nu D du V F | Construction of Ampol crude oil wharf on N bank at Luggage Point. Department's old dredge wharf at Hamilton had leteriorated and was lemolished, making way for new extensions to Brett's Wharf. Demolition of D-Berth lownstream from Messageries Wharf and old wharf at Colmslie Fish Board site to make way for new jetties. ¹ | Brisbane area population 778,193 in 215,668 dwellings (city census total 593,668). CBD building boom in highrise construction until 1971. ³ | Another substantial pump out station constructed at Fisherman Islands to allow progressive reclamation of valuable area in development of Port of Brisbane. New jetties (at old D-Berth and Colmslie Fish Board Site) to be main discharge point for dredge <i>Sir Thomas Hiley</i> . Also used for <i>Morwong</i> in 1969/1970 for spoil from Fisherman Islands swinging basins, and lower reaches and berths. Reclamation of 300 acres progressively carried out (ultimately 2000 acres required). Spoil from | |

| 1967 | Floods in June. ¹ | New beacons replacing old at outer Bar Cutting entrance. Pile Light at Bar Cutting | First CBD highrise to exceed height of City | Ampol and Amoco oil berths and the deepwater Fisherman Islands swing basin. ¹ Saurian completed land reclamation for Amoco refinery on Bulwer | |
|------|---|---|---|--|---|
| | | demolished. Brisbane River wooden leading beacons replaced with steel structures. <i>Groper</i> excavated rock at Lytton Rocks cutting, deepening it to 34' LW. Australian National Line roll-on roll-off terminal at Newstead. Extension of berth at Bretts Wharf, Hamilton. Cairnscross Dockyard to undergo improvements (starting 1969, completed 1972). ¹ Construction of new Victoria | Hall (MMI building, Queen Street). ³ | Island. ⁵ | |
| | | Bridge commenced. ³ Bulwer Island training wall extended to tip of island (work until 1972). ⁵ | | | |
| 1968 | Jan 28 announcement of State Government plan to allow the construction of | No difficulties were experienced in handling the large oil tankers following the construction of two oil refineries in the lower reaches of the river. Increased | | Parker Island reclamation area closed and pump out jetty demolished. Dredges upstream then had to discharge most | The Beach Protection Act of 1968 enabled the creation of the Authority responsible for investigations into coastal erosion problems and providing advice on mitigation to |

| | "Alberta City" on | rate of siltation (from flood) in | spoil at Lytton/ | local authorities. ¹ |
|------|-------------------------------------|--|---------------------------------|---------------------------------------|
| | Coomera island. | lower reaches required | Fisherman Islands pump | Protection of all species of sea |
| | Strongly opposed | maintenance dredging. Main | outs. Approximately 65 | turtles in Queensland since 1968 |
| | by the Australian | overseas terminal constructed by | acres at Lytton acquired | under the Fisheries Act. ² |
| | Littoral Society and | Brisbane Wharves and wool | from Commonwealth for | under the Tisheries Act. |
| | Wildlife | dumping company at their | filling by reclamation: | |
| | Preservation | Hamilton No. 2 Wharf. ¹ | bundwall constructed | |
| | Society. Project | | with imported solid fill, | |
| | abandoned. Start of | | and diversion drainage | |
| | 15 yr campaign to | | channel excavated. ¹ | |
| | , , , | | channel excavated. | |
| | have area protected. Minor flood | | | |
| | January. ² | | | |
| 10(0 | January. | | A <u>C 1 (50</u> | |
| 1969 | | Groper and Morwong dredged | An area of almost 50 | Fisheries Section. Declaration of |
| | | Outer Bar Cutting where | acres at Parker Island | Pumicestone Passage, Deception |
| | | shoaling had decreased depth. | reclamation topped with | Bay, Kippa-Ring, Hay's Inlet, |
| | | Channels to Hamilton Reach | sand to permit early | Moreton Banks, Myora and |
| | | dredged to 28'. Container load | leasing for industry. | Jumpinpin - Broadwater Fish Habitat |
| | | facility and roll-on roll-off | Development of | Areas. ² |
| | | terminal at Newstead completed, | Hemmant Industrial | |
| | | with wharf, crane and ramp. | lands: reclamation with | |
| | | Austral Pacific Fertilizers | sand from Aquarium | |
| | | completed complex at Gibson | Passage started, a long- | |
| | | Island, with wharf and dredged | term project. ¹ | |
| | | berths. ¹ | | |
| | | Modern container facilities for | | |
| | | Stevedoring built at Pinkenba. | | |
| | | New Victoria Bridge opened. ³ | | |
| 1970 | 1970's large scale | Saurian dredged river to | By this time, a large part | |
| | | | _ | |

| | seagrass loss in | Cairncross Slipway. Preparation | | of the original Parker | |
|------|------------------------|---------------------------------------|------------------------|----------------------------|---|
| | Deception Bay | work commenced for deepening | | Island reclamation had | |
| | | | | | |
| | area. ² | river channels to 30'. Deep | | been developed for | |
| | | trench excavated across Town | | industry. Filling | |
| | | Reach opposite Creek Street for | | commences at Lytton | |
| | | telephone cable conduit. ¹ | | reclamation: initial | |
| | | Between 1900 & 1970 at least | | reclamation was 125 | |
| | | 12 million cubic metres of | | acres. ¹ | |
| | | gravel & sand had been removed | | | |
| | | from the Brisbane river for local | | | |
| | | construction industry. | | | |
| | | Extraction peaked in the 1970's | | | |
| | | at 1.45M cubic metres per year. | | | |
| | | Annual production now is | | | |
| | | ~ 1 Mcubic metres. ² | | | |
| 1971 | Flooding, heavy | Siltation (from flood) leaves | Brisbane area | Over half spoil from | Beach Protection Authority. Clean |
| | rainfall runoff and | Bulimba to Fisherman Islands | population | Brisbane River Reaches | waters Act 1971. Declaration of |
| | siltation in | seriously affected and heavy | 867,794 in | pumped ashore. Spoil | Peel Island Fish Habitat Area. ² |
| | February. ¹ | maintenance dredging carried | 251,037 | from channels dredged | |
| | | out. Saurian used for | dwellings (city | by Sir Thomas Hiley | |
| | | developmental dredging in | census total | pumped to reclamation | |
| | | Scarborough Boat Harbour. | 717,330). ³ | on Fisherman Islands or | |
| | | Second grain terminal to be built | | dumped in bay. Spoil | |
| | | at Pinkenba. Tridacna | | from Scarborough Boat | |
| | | maintenance dredging at various | | Harbour dredged by | |
| | | points, e.g. Cairneross Dock and | | Saurian used in | |
| | | Wynnum Creek. Sir Thomas | | reclamation of tidal flats | |
| | | Hiley started dredging | | on Boat Harbour | |
| | | channels. ¹ | | frontage. ¹ | |

| 1972 | South Brisbane | Improvements of Cairncross | Most Brisbane | Dredged mud, clay and | |
|------|--------------------------------|--|----------------------|-------------------------------------|-------------------------------------|
| | Dock ceases | Dockyard completed and new | streets were now | rock pumped ashore at | |
| | operation. ¹ | complex opened. Sir Thomas | sealed. ³ | Fisherman Islands, | |
| | Flood February. ⁴ | <i>Hiley</i> dredged reaches from | | Lytton and Hamilton | |
| | | Fisherman Islands to Hamilton | | reclamation, and the rest | |
| | | to 30'. Blasting of bedrock at | | dumped in Moreton Bay. | |
| | | Pelican Banks Reach. Dredging | | Spoil from new Qld | |
| | | of Qld Cement and Lime Co. | | Cement and Lime Co. | |
| | | berth and approaches at Bulwer | | berth at Bulwer Island | |
| | | Island for new clinker plant. ¹ | | pumped to reclamation. ¹ | |
| | | Captain Cook Bridge opened. ³ | | | |
| 1973 | Queensland state | Mourilyan removed some of | | | The Pollution of Waters by Oil Act |
| | population reaches | displaced mud of N bank of | | | of 1973 enabled action to be taken |
| | over 2 million. ¹¹ | South Brisbane Reach caused by | | | against the owner or master of any |
| | South-east freeway- | construction of Riverside | | | ship or occupier of land where a |
| | Juliette to | Expressway. Three dolphins at | | | discharge of oil occurred into the |
| | Springwood | M-berth and old coal berth at | | | water. ¹ |
| | opens. ¹² | South Brisbane demolished. ¹ | | | |
| | | Maroon Dam completed. ² | | | |
| 1974 | Flooding of the | Powerful day and night lights | 1974 study by | Spoil from Fisherman | Environment Protection (Impact and |
| | river in January. ¹ | established on shoulder beacons | QDPI found 14% | Islands dredging | Proposals) Act 1974 – ensures that |
| | 1:100 year flood | at Bulwer Island. New leads | rural land in the | (Saurian) pumped to | matters significantly affecting the |
| | associated with | marking cuttings at upper | catchment subject | adjacent reclamations. ¹ | environment are fully taken into |
| | reported loss of | Quarries Reach. Heavy | to severe soil | | account by or on behalf of Aust. |
| | coral communities | siltation, dredging to regain | erosion as a result | | Gov. ² |
| | from Raby and | depths. Dolphin-type wharf | of agricultural | | |
| | Waterloo Bays. ² | built at Pinkenba Wharves | practices, 73% | | |
| | The 5.5m flood | Wheat Board Bulk Handling | less severe | | |
| | caused an estimated | area to serve larger grain ships. | erosion & 13% | | |

| | \$200 million dollars | Maynegrain completed and | negligible | | |
|------|-------------------------------|----------------------------------|---------------------------------|---------------------|--|
| | of damage and 14 | commissioned second grain | erosion. Report | | |
| | lives were lost. ⁴ | storage and loading facility at | of the working | | |
| | lives were lost. | 0 0 1 | committee on | | |
| | | Pinkenba. Maynegrain | | | |
| | | commenced construction of | long term | | |
| | | silica sand export complex at | planning between | | |
| | | Pinkenba, with large shed, wharf | Jumpinpin Bar & | | |
| | | and dredged berth. Oil seeds | the Nerang river | | |
| | | processing plant constructed at | bridge. 1974 | | |
| | | Pinkenba. Saurian dredged at | Moreton region | | |
| | | Fisherman Islands, extending | non-urban land | | |
| | | approaches to pump-out stations | suitability study. ² | | |
| | | downstream from Ampol Crude | | | |
| | | Oil Wharf. ¹ | | | |
| 1975 | 1975 Coastal | Maynegrain large silica sand | | | Australian Heritage Commission Act |
| | management | storage shed and barge | | | 1975 inventory of Australia's natural |
| | investigation. ² | unloading wharf completed in | | | and cultural heritage. Great Barrier |
| | | Pinkenba wharf area. Saurian | | | Reef Marine Park Act 1975 – |
| | | dredged Cairncross Dockyard | | | establishment, control, care and |
| | | Slipway to remove flood | | | development of marine parks in the |
| | | siltation. New road built at | | | Great Barrier Reef Region. National |
| | | Bulwer Island to service | | | Parks and Wildlife Act 1975. ² |
| | | development of Queensland | | | |
| | | Cement and Lime Company's | | | |
| | | new mill complex on waterfront | | | |
| | | lease land. ¹ | | | |
| 1976 | Port of Brisbane | Construction of service roads | Brisbane city | Port of Brisbane | Port of Brisbane Authority Act of |
| | Authority took over | and associated underground | census population | Authority initiated | 1976 established the Authority as a |
| | full control and | drainage works for Hemmant | 724,801.3 | development of | separate and autonomous body. ¹ |

| | management of port. Soil investigation work at new port complex site, Fisherman Islands. ¹ 1976 Moreton region growth strategy investigation. ² The Riverside Expressway was completed, which was part of the developing South- East Freeway. ⁶ | Industrial Port Land completed. ¹ North Pine Dam completed. Hinze Dam completed. Bulwer Island grinding plant completed. ² Last cargo ship used Newstead wharf, as port moved downstream to service larger container ships. ³ | Fisherman Islands near river mouth (until 1978). ³ Spoil from SE side of Inner Bar Cutting pumped onto Fisherman Islands for reclamation. ¹ | Fisheries Act 1976. Historic Shipwrecks Act 1976. Fauna Conservation Act 1976. ² |
|------|---|--|--|---|
| 1977 | Design work for Port of Brisbane Fisherman Islands container wharves. ¹ | | | AMSA guidelines for protection and management of estuaries & estuarine wetlands. ² Inaugural Brisbane River Symposium. ⁸ |
| 1978 | 1978 study delineated mangrove & saltmarsh distribution on a 1:1000 000 scale vegetation map. ² | Following successful field trials in 1975, the first conversions of navigation light systems to solar power were made. ¹ | Section of mangroves cleared on Bulwer Island. Boggy Creek redirected to connect with airport drainage channels (work until 1981). ⁵ | The National Plan to Combat Pollution of the Sea by Oil was presented in June 1978 to the Commonwealth Parliament. This Act provided an effective administrative environment under which first response equipment, personnel and training were |

| | | | | described. ¹ |
|------|---|---|--|--|
| 1979 | The 1979 census taken in Queensland. Population of 2,222,700. ¹ Olsen brief description of habitat reserves & maps indicating boundaries. 1979 Dowling provided a field key and generalised account of Moreton Bay mangroves. ² | | Pilot project revegetating Bulimba Creek began by Australian Littoral Society. ³ | |
| 1980 | | New Brisbane Airport developments relocated last resident from Cribb Island community and redevelopment occurred near the mouth of the river. Wharves on Fisherman Islands were opened by the Port of Brisbane Authority. ^{3, 12} New lights on limit leads at Bulwer Island and swing basin leads for new wharves at Fisherman Islands. ¹ | | Trawlers >14m length with Moreton Bay permits were restricted to fishing grounds south of Sandy Cape. ² St Helena Island was gazetted as a historic area. Moreton Island was listed on the National Heritage register. ¹² |

| 1981 | Cited study of Southern Moreton Bay measured mangroves as 6950 ha and saltmarshes 2870 ha. ² | | Brisbane city census population 731,230. ³ | | Environment Protection (Sea Dumping) Act 1981 – disposal of dredge spoil from Queensland's major trading ports. ² Queensland Marine Parks Act 1982. ² |
|------|--|---|--|--|---|
| 1983 | Main trade: import of crude oil and general cargo; and export of grain, meat, coal and refined petroleum products. ¹ Economic boom. ³ | New oil storage tank erected at Amoco Oil Refinery obscured rear Bulwer Island lead so new higher leading beacon erected. By this time, Port of Brisbane Authority completed construction of 2 container terminals, bulk coal export facility and bulk cement import installation at Fisherman Islands and were constructing a bulk grain installation. ¹ | | Hamilton and Pinkenba reclamations were completed. Last pump- out was pulled down, ending 85 years of pumping fill to these reclamations. Pinkenba and Hamilton were rapidly developing into industrial estates. ¹ | World Heritage Properties Conservation Act 1983 – protects and conserves those places under Aust. control which contain outstanding universal values. Declaration of Bribie Island, Pimpama, Coomera and Coombabah Fish Habitat Areas. Nov 19, threatened tidal wetlands became protected as Coomera Island Wetland Reserve. ² |
| 1984 | | | 158 blocks of land for sale at the controversial Raby Bay Canal. ¹² | BP acquired Amoco refinery on Bulwer Island. ⁵ | Aboriginal and Torres Strait Island Heritage Protection Act 1984 protecting Aboriginal and Torres Strait Islander archaeological sites and traditional places. ² |
| 1985 | Gold Coast Seaway | Wivenhoe Dam completed on | | | |

| 1986 | opened. ² | the Brisbane River. ³ Dredging for airport work in Boggy Creek. ⁵ Gateway Bridge finished and | | |
|------|---|---|--|--|
| | | opened over river between Eagle Farm and Murrarrie. ³ | | |
| 1987 | Reported loss of 8.4% of mangrove and 10.5% of saltmarsh/ claypan communities since1973. Reported return of seagrass to Deception Bay since 1975. ² | Max dimensions of shipping channel reached 11.6m deep, 180m wide at river mouth; 9.1m deep, 120m wide at Hamilton. ² | Brisbane city population 736,080. ³ | |
| 1988 | Coral dredging at St Helena Is ceased. ³ | | | |
| 1989 | Reported 38% loss of Melaleuca wetland in SE Qld since 1974. ² | The operation of Wivenhoe Dam helped mitigate moderate flood levels in April. However, after the dam water flow was shut off there was massive riverbank slumping downstream. Rates were slowed down to try a fix the problem and no major riverbank slumping was recorded after a second flood later that year. ⁸ | Brisbane city population 744,828. ³ | |

| 1990 | | Admiralty Wharf development with boardwalk access. ³ 1990's Cleveland Point and Raby Bay entirely enclosed by seawalls. ² Crude oil pipeline construction commences on Bulwer Island (until 1994). ⁵ | | Approval given for R/O marine plant regrowth from 80 ha reclaimed tidal land at Lamerough Ck, Caloundra. ² | Dugong listed as vulnerable to extinction. ² |
|------|--|--|---|---|---|
| 1991 | Flash flood Feb 8. ³ | | Brisbane city census population 763,038. ³ | Approval given for reclamation of 150 ha of tidal land at Dux Ck, Pumicestone Passage. ² | |
| 1992 | | Dredging of Cabbage Tree Creek with spoil disposal at Dynah Island. ² | Brisbane city population 767,324. ³ | Approval given for reclamation of 145 ha of tidal land at Fisherman Islands, Brisbane River. ² | Nature conservation Act 1992. Declaration of Extension to Myora Fish Habitat Area. ² |
| 1993 | | | Brisbane city population 777,280. ³ | | Government establishment of the Brisbane River Management Group. Moreton Bay Marine Park declared. ^{2,} ³ Land claims prepared for Peel Islands and North Stradbroke Islands. ¹² |
| 1994 | | | Brisbane city population 786,442. ³ | | Environmental Protection Act 1994. ² |
| 1995 | Reported 38% gain of seagrass and some loss of species | | Brisbane city population 801,879. ³ | | Moreton Island declared a National Park. ¹² |

| | since 1987 in | | |
|------|------------------------------------|-------------------|--|
| | Southport | | |
| | Broadwater. ² | | |
| 1996 | Reported approval | Brisbane city | Coastal Protection Act of 1996. ² |
| | given for removal | census population | |
| | or disturbance of 4 | 819,592.3 | |
| | ha of mangroves | | |
| | and saltmarsh in | | |
| | Moreton Bay | | |
| | region. Reported | | |
| | complete loss of | | |
| | seagrass from | | |
| | mouth of Logan | | |
| | River since 1987. | | |
| | May 1996 flood | | |
| | significant. | | |
| | Affected coral and | | |
| | seagrass | | |
| | communities. | | |
| | Rated as 1 in 20 | | |
| | year event resulting | | |
| | in medium to high | | |
| | flows & flushing | | |
| | pollutants out of the | | |
| | estuaries into the | | |
| | bay. Resulting | | |
| | algal blooms may be linked back to | | |
| | mainly Brisbane | | |
| | river. ² | | |
| | | | |

| | All the seagrass from Southern Deception Bay was lost. ⁷ Queensland state population of 3,374,000. ¹¹ Brisbane City Council first high speed city cat commenced at Bulimba. ⁶ . | | | |
|------|---|--|---|---|
| 1997 | Dieback of 280 ha of mangroves associated with hail storm damage reported for southern Bay islands. Moreton Bay Trawl Discussion Paper released. ² | 75% of residential properties "protected" by seawalls. ² | Heavy metals and hydrocarbons in sediments from urban runoff were recorded in some urban creeks after heavy rain. Recent tests on mud crabs showed only low levels of metals and persistent insecticides. However, a broader analysis of all intertidal fish and crustaceans has | Moreton Bay Marine Park extended. ² |

| | | | not been undertaken. ² | |
|---------------|---|---|--------------------------------------|---|
| 1998 | | Extractive dredging in the Brisbane river ceased in December, 1998, however, on- going navigational dredging in the lower reach continues. ² | | |
| 2000/ 2001 | Mangrove dieback, possibly from altered drainage patterns, under investigation at Hay's Inlet, Luggage Point and Fisherman Islands. Start of nutrient removal upgrades for municipal waste water processing units (Logan, Brisbane, Pine Rivers, Caboolture and Redcliffe). ² | | | The amended East Coast Trawl Fishery Management Plan comes into force. ² |
| 2003 | Major oil spill (~ 1.2 million litres) in mangrove-lined channels and drains in the Lytton area. Approximately 1-2 | | | |

| | | | - |
|------------------|--|--|---|
| hectares of | | | |
| mangrove dieback | | | |
| as a result. | | | |

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