

A timeline

Since the earliest days of European settlement, providing water and sewerage services for Sydney's population has been an ongoing challenge. Sydney Water and its predecessor, the Metropolitan Water Sewerage and Drainage Board, has had a rich and colourful history. This history reflects the development and growth of Sydney itself.

Sydney has often faced the prospect of a water shortage due to population growth and unreliable rainfall patterns. This has led to the development of one of the largest per capita water supplies in the world.

1700s

- Pre 1788 The original custodians of the area now known as Sydney are the Gadigal people of the Eora nation. Waterways played a significant role in their daily for drinking and food, meeting places and travel routes.
- 1788 Sydney was chosen as the location for the first European settlement in Australia, in part due to its outstanding harbour and the availability of fresh water from a creek later called the Tank Stream.
- 1795 As Governor, Arthur Phillip tried to protect the quality of the water in the Tank Stream. He banned all development along the edges of the stream.



Sydney Cove after First Fleet arrival (State Library NSW)

1800s

- 1803 To protect the Tank Stream an order was published in the Sydney Gazette on 18 December 1803 which stated: 'If any person whatever is detected in throwing any filth into the stream of fresh water, cleaning fish, washing, erecting pigsties near it or taking water out of the Tanks, on conviction before a Magistrate their house will be taken down and forfeit £5 for each offence to the Orphan Fund.'
- 1826 The Tank Stream was abandoned as a water supply because of pollution from industries such as tanneries, brickworks, wool wash, slaughterhouse and soap and candle making. These industries used water in part of their processes. These processes added chemicals, blood, fats and silt to the water polluting the creek.
- 1827 Busby's Bore was constructed to pipe water from Lachlan Swamps (now Centennial Park). This was the colony's first major public engineering project and it wasn't completed until 1837. Water was pumped to Hyde Park where it was transferred to water carts for distribution to homes and businesses. It was in use until 1858.
- 1849 Originally, the polluting industries were located in Sydney Cove (now Circular Quay) but these industries were forced out of the city under the Slaughter House Act of 1849. It required all noxious trades to be operated more than one mile (1.6 km) from the city area.
- 1850s The Gold Rush increased Sydney population dramatically, meaning a new supply of water and a better way to manage sewage was needed.





- 1857 The Bennelong Point Sewerage System become Sydney's first planned system to dispose of the city's sewage. This was before one year before the construction of the modern sewerage system in London, after the 'Great Stink'. This greatly improved the public health and living standards of the community.
- 1859 Botany Swamps Water Supply Scheme began, with the pumping station taking water from a convict built dam through the Crown St Reservoir. Today, Crown Street is the oldest water supply reservoir still in service. Botany Swamps was dried up from overuse and closed down by 1896. Sydney's sewerage system consisted of five outfall sewers which drained to Sydney Harbour.
- 1870 Sydney Harbour had become grossly polluted resulting in typhoid and scarlet fever epidemics up to 1890.
- 1875 The Sewerage and Health Board was created to deal with the increasing sewage in Sydney. It recommended:



The Bennelong Point Sewerage System (Sydney Water and WaterNSW historical Archives)

- southern sewage be discharged to Botany Bay Sewage Farm
- city sewage to be sent to a treatment plant at Bondi to be discharged into the ocean
- northern Sydney sewage sent to Folly Point treatment works to be discharged into the bay
- pumping stations be constructed along the harbour to remove sewage discharge.
- 1886 The Hudson Brother's Emergency Scheme was created. This scheme delivered water to Botany Swamps from the incomplete Upper Nepean Scheme. This was a temporary measure and was completed in six months. It successfully addressed water shortages during a drought.
- 1886 Sydney's first sewage reuse scheme begins which involved disposing wastewater at the Botany Sewage Farm. The plan was to have a government farm providing produce for the city. Due to farm mismanagement and a steady increase in sewage that flooded the farm, it failed.
- 1880 Legislation was passed under Sir Henry Parkes, as Premier, which formed the Board of Water Supply and Sewerage.
- 1881 Smallpox epidemic

Sydney



The Board of Water Supply and 1888 Board of Water Supply Sewerage (BWS&S) was created. This was Sydney's first water and sewerage authority which would later become Sydney Water. Lieutenant Colonel T Rowe was appointed as the first President of the BWS&S. The Upper Nepean Scheme successfully linked the Nepean, Cataract, Cordeaux and Avon Rivers to deliver water to Sydney through the Upper and Lower Canals. 1892 The BWS&S was renamed the Metropolitan Board of Water Supply and historical Archives) Sewerage (MBWS&S). Manly Dam was constructed to Botany Sewage Farm. Point treatment works. discharge of sewage into the Harbour. Bubonic Plague hit Sydney Wollongong water supply was connected. completed to Malabar. commemorated in General Holmes Drive near Sydney Airport. Spanish influenza epidemic Construction began on Avon Dam. It was completed in 1927



Members of the first Board of Water Supply and Sewerage (Sydney Water and WaterNSW

- 1894 The MBWS&S took over maintenance of major stormwater channels in Sydney.
- 1898 The first sections of the Western and Southern Sewerage System delivered sewage
- 1899 The first sections of the Northern Sewerage System delivered wastewater to Folly
- 1899 1902 A network of twenty sewage pumping stations were constructed. This network was a major advance in the protection of the public health of Sydney by ending the

1900s

- 1900
- 1903
- 1907 Construction of Cataract Dam began. It was completed in 1915.
- 1916 Southern and Western Suburbs Ocean Outfall Sewer (S&WSOOS) No.1 was
- 1917 Former Board Secretary Major General William Holmes was killed on the Western Front. Major General Holmes was Board Secretary when he was first commissioned to lead an expeditionary force to occupy German-controlled New Guinea in 1915. He subsequently led the 5th Infantry Brigade at Gallipoli and France. His name is
- 1916 1930 Northern Suburbs Ocean Outfall Sewer (NSOOS) was constructed.
- Construction began on Cordeaux Dam. Public Works Department designer, E.M. de 1918 Burgh, was inspired by the Egyptian architectural style to design the last parts of the dam, making it one of the most beautiful dams in Sydney. It was completed in 1926.
- 1918
- 1921







- 1922 E.M. de Burgh, also applied his Egyptian architectural influence to the design of the Middle Harbour Syphon. This inverted syphon was built to allow sewage pipes to pass under waterways without the need to dig a tunnel.
- 1924 The MBWS&S was renamed the Metropolitan Water, Sewerage and Drainage Board (MWS&DB) and gained control of its own finances for the first time.
- 1925 Construction began on Nepean Dam. It was completed in 1935.
- 1927 Construction began on Woronora Dam. It was completed in 1941.
- 1929 The first sections of the Wollongong Sewerage Scheme were completed.
- 1934 1942 Sydney experienced one of its most severe and extended droughts. The Great Drought, as it came to be known, lasted eight years and almost caused the complete failure of water supplies in Sydney. At its worst, dam levels fell to 12.5%. Drastic restrictions were imposed, including mandatory one third cuts to brewery productions. Fortunately, rain fell in all catchments in 1942.
- 1936 1941 Southern & Western Suburbs Ocean Outfall Sewer No. 2 is constructed.
- 1936 1953 Bondi Sewage Treatment Plant (STP) was constructed.
- 1938 The first inland sewerage schemes were built at Fairfield, Camden and Campbelltown.
- 1940 In response to the Great Drought, the Warragamba Emergency Scheme was commissioned.

The MWS&DB moves into a new head office at the corner of Pitt Street and Wilmott Lane.

- 1946 1960 Warragamba Dam was constructed. To this day, Warragamba is one of the largest domestic water supplies in the world. It covers an area of up to 75 square kilometres and holds 2, 031 billion litres of water – four times the volume of Sydney Harbour.
- 1957 Avon Dam water was diverted to supply the Illawarra.
- 1958 Port Kembla Sewerage Scheme was commissioned.
- 1959 Cronulla Sewerage System was commissioned.

Work commenced on Sydney's largest sewage treatment plant at Malabar.

- 1961 The MWS&DB installed its first mainframe computer system the IBM 1401 mostly to handle billing and general accounting.
- 1966 The high-rise section of the MWS&DB head office on the corner of Pitt and Bathurst Streets was completed.



Unveiling the plaque at Warragamba Dam opening ceremony - Sydney Water and WaterNSW historical Archives

1967 The NSW Parliament votes to add fluoride to water supplies.







- 1971 1977 The Shoalhaven Scheme is constructed (Tallowa Dam, Fitzroy Falls Reservoir, Wingecarribee Dam).
- 1972 Construction of North Head Sewage (wastewater) Treatment Plant began. It was completed in 1984
- 1980 Blue Mountains water supply scheme was taken over by the MWS&DB.
- 1984 1990 Deepwater ocean outfalls were constructed at Bondi, North Head and Malabar Wastewater (Sewage) Treatment Plants. The outfalls dispersed the primary treated effluent about four kilometres offshore, considerably improving water quality at Sydney's beaches.
- 1987 The MWS&DB was renamed as the Sydney Water Board (SWB).
- 1990 The Steamwatch Program began and involved community members monitoring water quality of local creeks and rivers throughout greater Sydney, the Blue Mountains and the Illawarra.
- 1994 The SWB was corporatised and renamed Sydney Water Corporation (SWC).
- 1996 Prospect Water Filtration Plant was completed. It is the largest of the privately built, owned and operated plants. Today, 90% of Sydney's water is treated in privately owned water filtration plants. Sydney Water contracts these plants to treat and filter drinking water.

Construction began on the Northside Storage Tunnel, a massive 20 kilometre, 500 million litre chamber designed to protect Sydney Harbour from pollution from wet weather sewer overflows. The tunnel captures overflows and stores them temporarily until they can be properly treated and disposed.

The project was fast tracked to ensure its completion before the 2000 Sydney Olympic Games.

1999 The Sydney Catchment Authority (SCA) was established to manage Sydney's dams and catchment areas. SCA sells raw water to Sydney Water who treat and deliver it to customers across Sydney, the Blue Mountains and the Illawarra.

2000s

- 2001 Sydney Water's Every Drop Counts Business Program was started. This demand management program helps the largest business and industrial customers to identify and implement water efficiency initiatives.
- 2001 2002 The Rouse Hill Recycled Water Scheme begins delivering recycled water to local residents via dual reticulation (separate pipes). The scheme remains the largest residential dual reticulation recycling scheme of its kind in the world.
- 2002 Low rainfall over the preceding two years saw dam levels fall to below 60%, beginning one of the worst periods of drought in more than 100 years. Voluntary



Rouse Hill resident using recycled water



2011 Opened the Water Recycling Education Centre for universities, technical and further education (TAFE) colleges and high schools,

St Marys Water Recycling Education Centre







professional groups and community groups to explain the role of water recycling in securing Sydney's water supply.

Began operating the Prospect Hydroelectric Plant which produces enough energy to meet five per cent of Sydney Water's energy needs (same amount of electricity used by about 1,500 homes a year).

Sydney Water embraces social media by launching a Facebook page and Twitter presence.-This opened up new communications channels with our customers and stakeholders.

2012 Sydney Water sets up a long-term lease of the Sydney Desalination Plant Pty Limited (SDP). This brings money back to the NSW Government which can be used for other projects across NSW.

To see what we are doing today, go to our website sydneywater.com.au