

Baxter Main Drain – Section 20 Upgrade

Date

January 2011 to May 2011

Location

Olstead Drive, Baxter

Project Value

\$2.8 million

Project Details

The Baxter Main Drain – Section 20 drainage upgrade was within the Baxter West Drainage Scheme. The upgrade of this section was required to enable construction of the Peninsula Link Freeway through Baxter.

A temporary retarding basin was constructed on the Peninsula Link reservation approximately twelve years earlier, when upstream land was subdivided. To ensure residential areas downstream were still protected from flooding, it was essential to upgrade this pipeline from the southern boundary of the freeway reserve near the end of Barrington Court, to the abandoned Mornington Peninsula Railway line, a distance of approximately 700 meters.

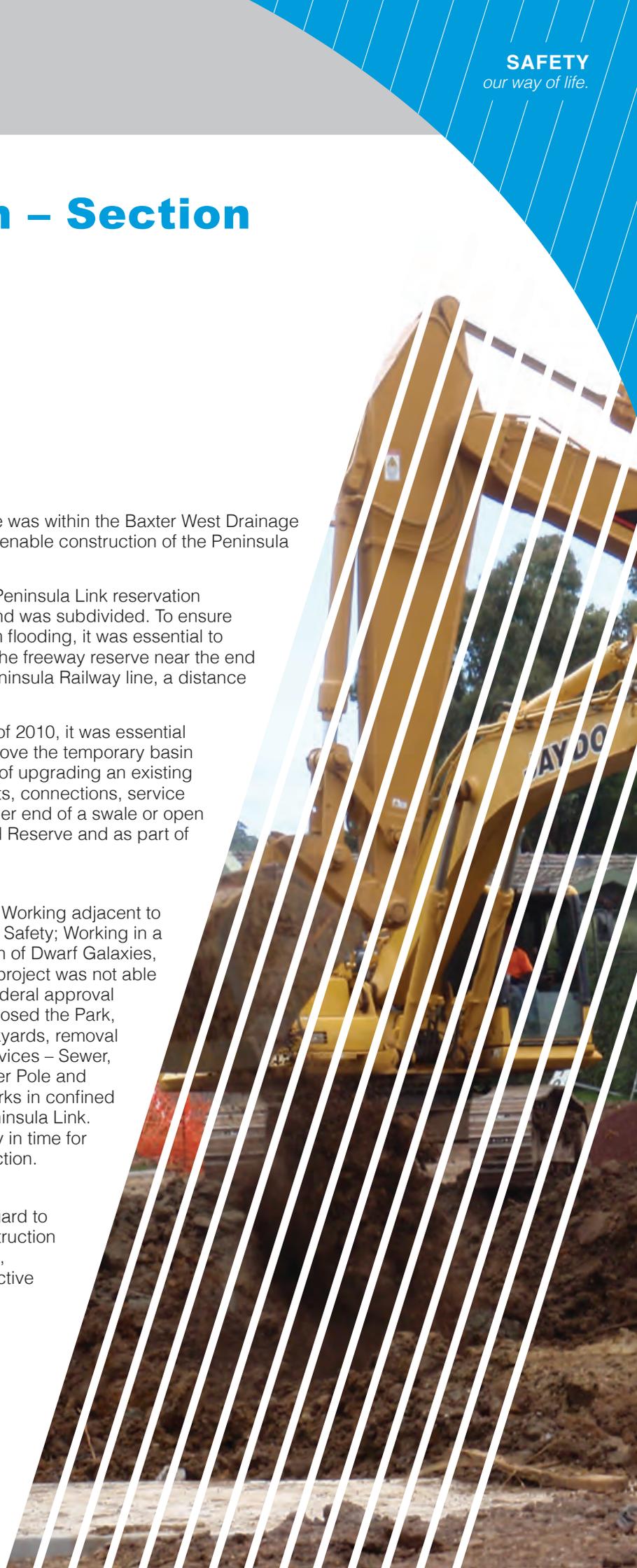
Peninsula Freeway works commencing in December of 2010, it was essential that this section of drainage be upgraded, and to remove the temporary basin to allow freeway construction. The project comprised of upgrading an existing small drainpipe to a twin 1950mm RCP, associated pits, connections, service protection, and an inlet and an outlet grated pit at either end of a swale or open drain, feature landscaped to fit within The Harold Reid Reserve and as part of the environmental off-set management plan.

Project Risks

Risks requiring a high level of management included: Working adjacent to Baxter Pre-school Drop-off and Pick-up Zone – Public Safety; Working in a Live Drain; Flooding/Inundation of worksite; Relocation of Dwarf Galaxies, a federally protected species of fish downstream, the project was not able to commence until the fish had been relocated and federal approval given. Community complaints (construction activity, closed the Park, Road and Playground); Working within residents backyards, removal of back fences to enable construction; Relocating services – Sewer, HV, Phone and Gas; Works within ½ meter of HV Power Pole and transformer powering a SEW sewer pump station; Works in confined area beside Baxter Preschool; and, Interface with Peninsula Link. To the clients' satisfaction, the new pipeline was ready in time for Peninsula Link Freeway construction drainage connection.

Stakeholder Management

The works presented a number of challenges with regard to managing interface between essential drainage construction works, while maintaining normal preschool operations, particularly during pickup and drop-off times where active children are present.



The alignment between residents' properties and the Baxter Preschool combined with construction deadlines meant careful negotiation and management of issues was critical. Our pipe-laying crews worked in a manner that was sensitive to young educational needs while maintaining necessary productivity to meet commitments.

Testament to our client and stakeholder commitment, the school praised the efforts of the construction personal and project management for all their efforts.

Major Lessons Learned

It was beneficial to the project that we were involved through the design in order to understand all stakeholder and client requirements (and constraints), and be able to plan the work methodologies accordingly. Altering the pipeline and pit orientation slightly ensured impacts to residents was halved, and in turn, efficient construction practices could still be incorporated.

This approach, and close management of a small number of specialist personal (via keeping construction areas open) enabled greater flexibility with regard to programming, particularly when difficult issues arose such as unforeseen services obstructions, and extended wet weather.



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