



Prepared all documentation required to commission, operate and maintain WWTP (ITP, TCP, O&M)

Decommissioned existing Wastewater Treatment Plant

Designed, installed and commissioned new WWTP

Negotiated irrigation area and managed compliance with Ipswich City Council and DEHP

BP Blacksoil Wastewater Treatment Plant

BACKGROUND

BP Australia own a service station located at 1420 Warrego Hwy, Blacksoil, that has no connections to local sewer lines. The service station had a Wastewater Treatment Plant (WWTP) installed on site that was failing to cope with loading from the service station and required routine pump outs. BP elected to upgrade the service station and the WWTP to minimise operational pump out costs and reduce potential impact on the environment.

SSI was contracted to audit the original WWTP, design the upgrade, install, commission and process prove the system. The site in question only had 500m² of land available to irrigate which was insufficient for the volume of water processed through the service station. SSI negotiated with the Department of Environment and Heritage Protection (DEHP) and Ipswich City Council to incorporate a Class A+ treated water reticulation scheme for toilets and urinals, which reduced potable water demand and required irrigation area..



SSI'S ROLE

SSI conducted the following works:

- Audited BP service station to understand hydraulic and contaminant loading on WWTP prior to upgrade;
- Modelled expected hydraulic and contaminant loading for upgraded service station;
- Managed decommissioning of existing WWTP onsite and waste recycling;
- Negotiated amended license and irrigation requirements with DEHP and reticulation requirements with Ipswich City Council;
- Designed new WWTP to cope with upgrade and to supply Class A+ treated wastewater for reticulation for toilets and urinals and irrigation;
- Organised, procured and managed all sub-contract work, equipment purchases and operational checks;
- Managed construction of WWTP;
- Designed and managed installation of irrigation area inline with requirements stipulated by DEHP;
- Commissioned, process proved the and performed handover to BP Blacksoil staff;
- Prepared Inspection and Test Plans (ITP), Testing and Commissioning Package (TCP) and Operation and Maintenance manuals (O&M); and
- Engaged in performing ongoing maintenance for WWTP to ensure license requirements are met and system operates as intended.

SSI SERVICES PROVIDED

Asset & Maintenance Management

Design, Construction Management & Commissioning

Efficiency Audits & Cleaner Production

Environmental Compliance & Licensing

Master Planning

Plant Assessment & Optimisation

Sustainable Resource Management

BP Australia's first recycle water scheme where over 50% of the wastewater is recycled back in to the building for toilet flushing and urinal flushing.

Class A+ Water Recycling Plant that has been process validated

Asset & Maintenance Management

Design, Construction Management & Commissioning

Efficiency Audits & Cleaner Production

Environmental Compliance & Licensing

Master Planning

Plant Assessment & Optimisation

Sustainable Resource Management

Risk Assessments (HACCP & HAZOP)



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