





Remediating environmental degradation caused by sedimentation

Friday 8 November 2019

www.subiaco.wa.gov.au

Jualbup, Shenton Park





Subiaco Common





Mabel Talbot, Jolimont





Mabel Talbot, Jolimont





Example of issue





Example of issue





Sediment build up – Mabel Talbot





Area B - provision of erosion control element options required

Area A - provision of erosion control element options required

Manual Clean up

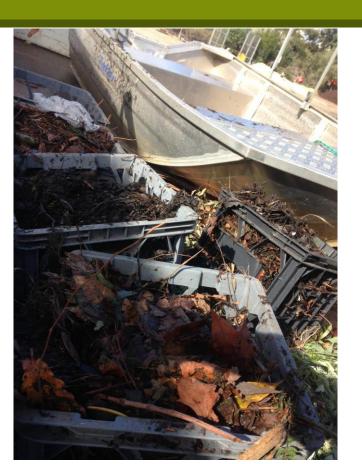






Manual Clean up





- Cost of over \$36,000
- 7 tonnes of sediment was removed from the lake
- Required a team of 3 people
- Over 5 days
- Does not allow some materials such as oil, fuel, micro particulates or even litter to be thoroughly removed as effectively as the GPT

Gross Pollutant Trap





The GPT is designed to capture:

- 98% solid pollutants
- 87% free oils and grease
- 91% total suspended solids
- 30% total phosphorus
- 13% total nitrogen

Gross Pollutant Trap





Improved the water quality of:

Water body of the lake

Recharge of the underlying superficial aquifer from the lake

Overflow of water to Lake Monger and Perth's Swan River

5 November 2019

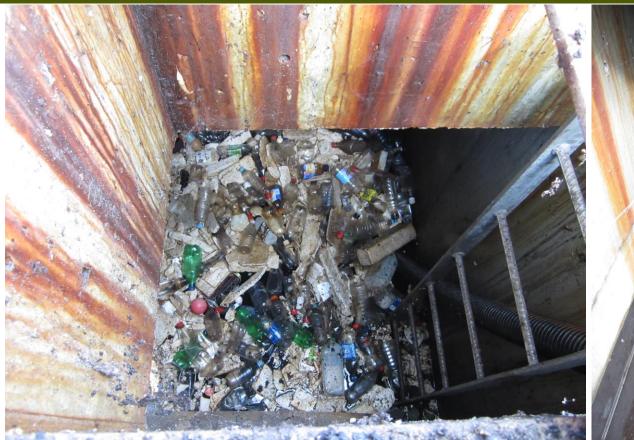
Gross Pollutant Trap – Mabel Talbot Example



- 2 Gross Pollutant Traps installed at Mabel Talbot
- 3 GPT at Lake Jualbup
- Latest installed in 2017 \$162,000
- They tackle 12 tonnes of sediment annually
- Emptied 4 times a year
- 3 tonnes of undesirable material each time
- Audits of the GPTs to collect data
- Help better understand and control sediment volume and movement throughout the City
- Demonstrate the benefits of installing GPTs as a remediation tool
- Without GPT, the City would have to continue to undertake a recurring manual clean out

Gross Pollutant Trap







Seabin – Lake Subiaco Common



- Installation in November 2019
- Catch bag holds 20 kg
- Filter captures fuel, grease
- Emptied every day



Seabin



- 95% organic debris
- 5% other (plastics, cigarette butts...)



Seabin



