



Acid Solutions®

Contaminated Water Treatment Services

9 pits (540 Megalitres) treated in 14 days with 85 tonne of reagent.

Name	-withheld (confidentiality requested)
Site Location	-South East Queensland
Site Problem	-pH & Acidity
Water Volume	-Total of 540 megalitres
Water pH	-pH 2.84 and above
Acidity	-366mg/l and below
Suspended Solids	-Low
Treatment Objective	-License compliance
What is causing the problem	-Sand Mining
Dams/Pits	-9
Length of water body	-Many
Width of Water body	-Many
Water Depth	-up to 3 metres
Bottom Type	-Lumpy
Aquatic Flora	-Surrounding
Vehicle Access and Flora	-Basic Access
Environmental Sensitivity	-Contained and controlled
Aquatic Life	-None
Drains or Streams nearby	-Nearby
Regulatory requirements	-Under Observation
Urgency level	-Extremely urgent



PROBLEM

The company (a leading sand producer) required treatment of its pit water to reduce acidity and raise pH to license requirements.

BACKGROUND

The site consisted of 9 pits, ranging from 45 megalitres to 180 megalitres.

The acidity of these pits ranged from 85 mg/l to 366 mg/l with the pH's as low as 2.84. The water quality was poor with high levels of dissolved metals such as Aluminium, Iron, Copper and Arsenic. Some pits were from past excavation of sand and silica products and the others were still having product extracted.

Some of the pits had restrictive access. The largest pit was 8.5 hectares.

RESULTS

Acid Solutions treated the 540 megalitres in 9 separate pits in a total of 14 days with 85.5 tonne of reagent.

Final water quality of all pits treated was above pH 7.5 with acidity and suspended solids achieving license requirements.

The treatment neutralised acidity and eliminated the possibility of license suspension in very short time.

The total cost (including reagent, travel and accommodation) was \$122.18 per megalitre-12.2 cents per kilolitre.



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