

**Client:**

Origin Energy

Main Contractor:

Ostwald Bros & Watpac Civil

Specialist Sub-contractors:

SEALS Group

Project description:

Sub-grade improvement (Gas Plant and R.O. Plant construction)

Location:

Talinga, Qld

Date:

November 2009

Product:

PolyCom Stabilising Aid

For detailed project information contact:

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Project Facts

Origin Gas Plant Construction

Problem:

Existing sub-grade material consisted of sandy and silty clay material and areas of highly reactive clay with all material having medium to high sodic levels.

The very low strength of the sub-grade meant considerable pavement thicknesses were required and the additional problem of erosion due to the piping (tunneling) of these highly dispersive soils was a concern.

Standard solution was remove and replace or overlay the entire area with more competent material.

Solution:

SEALS Group solution was to stabilise the sub-grade area with PolyCom stabilising aid thus delivering an increase in strength, flexibility and a very high degree of water resistance thus reducing the required pavement thickness for road construction. PolyCom stabilisation also eliminates the erosion problem due to soil dispersiveness by combining this material into a solid soil raft.

Project Aims:

1. Deliver increased strength and durability to the sub-grade layer
2. Reduce water and traffic damage
3. Reduce the thickness of designed pavement layers for road construction
4. Eliminate Piping (tunneling) of these sodic soils

PolyCom has delivered all of the project aims - A stronger sub-grade with flexibility and water resistance combined with the remediation of these sodic soils.

This improved material is re-workable at any time and stabilisation has been achieved using standard on site construction equipment. This work has delivered substantial cost benefits to the client.



R.O. pad and ponds

Gas Plant