

# Flocculation dewatering of Florida phosphatic clay wastes

Dept. of the Interior, Bureau of Mines - Dewatering of Phosphatic Clay Waste by Flocculation, Chemical Engineering & Technology (Cet)

Description: -

Water resources development -- South Dakota -- Spink County

Water resources development -- South Dakota -- Brown County

Reservoirs -- Yellowstone River watershed -- Statistics

Water resources development -- Yellowstone River watershed --

Statistics

European Economic Community -- Lebanon.

Hydraulic mining

Water -- Pollution -- Alaska Peninsula

Oil pollution of water -- Alaska Peninsula

Seepage -- Alaska Peninsula

Scrap metals

Slag

Ore-dressing

Copper

Flocculation

Phosphate mines and mining -- Waste disposal -- Florida

Flocculation dewatering of Florida phosphatic clay wastes

Cmnd -- 4410

Report of investigations (United States. Bureau of Mines) -- 8047

Report of investigations - Bureau of Mines ; 8047

Report of investigations - Bureau of Mines ; 8279

Report of investigations - Bureau of Mines ; 8349 Flocculation

dewatering of Florida phosphatic clay wastes

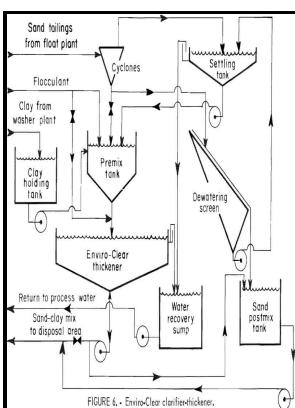
Notes: Bibliography: p. 26

This edition was published in 1979

Tags: #Large

Large

Several groups of reagents were tested: 1 those that increased the zeta potential of the phosphatic clay wastes; 2 those capable of hydrogen bonding; and 3 those



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which flocculated the phosphatic clay waste.

## [PDF] DESIGN OF ELECTROLYTIC DEWATERING SYSTEMS FOR PHOSPHATIC CLAY SUSPENSIONS

Abstract As a part of research conducted to effect pollution a dewatering technique that allows for disposal of clay wastes, for reuse of water now lost with clays, and for reclamation of mined land was developed.

## Dewatering of Fine Particle Mining Wastes Using Polyethylene Oxide Flocculant

The flocculated sludge is then removed at 30 and is sent through a dewatering screen 40 where the flocculated clay is recovered and sent to reclamation at 42. By using this method, such mineral-containing sludges can be quickly dewatered into a cake comprising 25-35% solids which can then be further processed to a 60% solids-containing material. By employing this reportedly synergistic combination of flocculating agents in conjunction with a sand slurry, Laros reportedly is able to consolidate a sludge containing 3 to 5% solids by weight into a filter cake having an excess of 40% solids.

US5262064A

Stanley Publisher: ISBN: UOM:39015078489450 Category: Clay wastes Page: 10 View: 635 Results of dewatering phosphatic clay wastes with various grades of polyethylene oxide. Author: Publisher: ISBN: UCSD:31822022940787 Category: Gas industry Page: View: 601 N. Thus, a belt

press may be used if needed.

#### **Dewatering of Phosphatic Clay Waste by Flocculation, Chemical Engineering & Technology (Cet)**

Chemical phosphorus removal is dealt with in detail, Rapid mixing for efficient coagulant utilization, and flocculation are dealt with in specific chapters. The diluted polymer solution is then fed into a mixer 34 where it is mixed to a homogenous form and discharged as a low concentration, i. The Bureau of Mines is investigating a dewatering technique for coal-clay waste that uses a flocculant, polyethylene oxide PEO.

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