

SECTION I
CONCLUSIONS

SECTION I
CONCLUSIONS

Since the best seven of the top eight compositely ranked units were belt filter presses which fell within a \$365,000 to \$595,000 annual total disposal cost we conclude that this type is acceptable to perform the sludge dewatering operation at the Carl A. White Reclamation Plant.

It is felt that filter presses of the belt type can achieve a sufficiently high percentage of solids for landfill disposal at reasonable costs. In addition they are compact in size and of reasonable weight. The one filter plate press considered would require a comparatively much larger building with a high bearing capacity floor, since it weighs 280,000 lbs. Through it ranked No. 3, we question the annual labor and maintenance costs submitted by the manufacturer, knowing that substantial labor and heavy equipment is required to keep the filters clean.

An elevated position of sludge dewatering equipment within the present control building, between Lime Bin No. 2 (the Easterly Bin) and the Southeasterly building wall should not impede the movement of workmen and would permit conveyance equipment installation through the wall to a truck loading area. In addition the present tramrail hoist system can service this installation. An interior partition may be required for humidity control.

A statement regarding the performance of centrifuges is in order because of further scrutiny since our prior report. Although both firms (Bird and Sharples) had submitted data indicating low costs and high percentage solids, Bird Machine Company did not test any sludge from the plant! Sharples - Stokes had three drums of sludge to be processed through one of their pilot units and in testing observed by representatives of D.E.R. and our firm found it cost and performance prohibitive to dewater this type of sludge to an acceptable and cost-effective level. This is reflected in the unduly high cost of chemicals in the Appendix C chart of this report.

The Bird centrifuge column of Appendix C, being based on unconfirmed sludge testing by them, and being further suspect because of unsatisfactory tests run at the plant with the D.E.R. "Yellowboy" centrifuge, is not included at all in the rankings. We would have to assume that the Bird centrifuge would be similar in ranking to the Sharples centrifuge on this sludge.