

## REFERENCES

1. Ralph L. Rhodes and Robert S. Davis, "Mine Drainage in the Susquehanna River Basin", Federal Water Pollution Control Administration (1962-1968).
2. "The Incidence and Formation of Mine Drainage Pollution in Appalachia", Appendix "C" to "Acid Mine Drainage in Appalachia", U.S. Army Corps of Engineers.
3. "West Branch Susquehanna River Report", Anon., Feb. 1971.
4. D.K. Todd, ed. "The Water Encyclopedia", pp. 80, 81 - Water Information Center, Port Washington, N.Y. (1970).
5. Kindig, J.K. and Irons, S.D., "Reprocessing Bituminous Coal Refuse", Mining Congress Journal 51, (7), 36 July (1965).
6. S.D. Trons, "An Evaluation of Self-Heating Characteristics of Coal Refuse and their Relationship to Combustible Content. Masters Thesis. College of Earth and Mineral Sciences, the Pennsylvania State University (1966).
7. D.C. McLean, W.J. Kogelman, and T.S. Spicer, "Investigation of the Haldex (Simdex) Process for Beneficiating Coal Refuse". Special Research Report SR-80, College of Earth and Mineral Sciences, The Pennsylvania State University, University Park, Pa., March (1971).
8. R.I. Lachman, and H.L. Lovell, "An Investigation of the Natural Beneficiation of Coal Mine Drainage", College of Earth and Mineral Sciences, the Pennsylvania State University, Special Research Report SR-76, May 1970.
9. "Phase I Interim Progress Report Mine Drainage Pollution Survey West Branch of the Susquehanna River". Gwin Engineers, Inc., October 9, 1970.
10. "Preliminary Report An Evaluation of Water Quality in the West Branch Susquehanna River with Reference to Recent High Level Pollution by Coal Mine Drainage", Gwin, Dobson & Foreman, Inc. January 28, 1971.
11. J.J. Molloy, "Flood Discharges Relating to Pennsylvania Streams" U.S.G.S., Harrisburg, Pa. (1960).

12. G.W. Dollman, "Determination of Sulfate and Phosphate in Water by Ion Exchange-Titrimetric Method Environment Science & Technology 2, 11, 1027-29, Nov., 1968.
13. R.E. Galloway and J.F. Colville, "Treatment of Spent Pickling Plant Liquors", Tran. Iron and Steel Institute, London 1970.
14. H. Gordon Glover, "The Control of Acid Mine Drainage Pollution by Biochemical Oxydation and Limestone Neutralization Treatment".
15. L.S. Rivett and U.M. Oko, "Tailings Disposal, Generation of Acidity from Pyrrhotite and Limestone Neutralization of Waste Water at Falconbridge's Onaping Mines". Deco Trefoil, Winter Issue, 1971-1972.
16. J.W. DeVilliers, "An Investigation into the Design of Underground Settlers". Journal of the South African Institute of Mining and Metallurgy, pp. 501-521, June 1961.
17. J.J. Birch, "Pumping Acid Mine Water from the West Branch of the Susquehanna River into an Abandoned Mine to Improve the Alkalinity Content". Barnes and Tucker Company, 1967.
18. R.R. Evans, "Precipitation of High Density Metallic Hydroxides for Recovery or Disposal", Proc. Twenty-first Industrial Waste Conference, Purdue University Engr. Ext. Dept., (May 1966).
19. L.W. Heise and M. Johnson, "Practical Aspects of Waste Pickle Liquor Disposal", Proc. Thirteenth Industrial Waste Conference, Purdue University Engr. Ext. Dept., Series No. 96, p. 140, (May 1958).
20. P.D. Kostenbader and E.F. Haines, "High-Density Sludge Process for Treating Acid Mine Drainage", Third Symposium Coal Mine Drainage Research, Mellon Institute, Pittsburgh, Pa., pp. 12-26, (May 1970).
21. M.R. Campbell, F.G. Clapp and C. Butts, "Geologic Atlas of the United States Barnesboro-Patton Folio Pennsylvania", U.S.G.S. 1913.
22. "Water Resources Data for Pennsylvania", series, U.S.G.S.

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