

PeCOD Application Summary #02 – Pulp and Paper Industry

The PeCOD Analyzer has proven to be a valuable tool for clients in the pulp and paper industry, providing a rapid, safe, reliable method for operators to determine COD in various processes throughout a mill. The amount of water recycling required for large scale pulp and paper mills drives the need for the COD test, with each part of the process working in balance with each other to ensure the recycled water is treated efficiently and effectively. The rapid 10-minute analysis time for the PeCOD test allows operators to determine their COD numbers near real-



time, and proactively take actions to ensure no parts of the system build up too high or reach too low of a COD. Proactively optimizing the mill processes based on PeCOD results leads to preventing mill upsets before they occur, leading to significant cost savings compared to relying on the common 3-hour dichromate COD test. The PeCOD also provides the added benefit of a green method, requiring no excessive PPE or training to run the test.

The summary table below explains details of several PeCOD end-users in the pulp and paper industry.

Company	PeCOD User Since	Details
Arauco (Chile)	2013-06-01	Optimizing pulp process to reduce the consumption of bleaching chemicals
Bunge (MB, Canada)	2016-10-19	Multiple uses around plant, monitoring stability and optimizing processes
Canfor (AB, Canada)	2017-07-07	Use is for BOD5 correlations, operator is supporting two paper mills
FP Innovations (AB, Canada)	2016-09-01	Online system performing effluent monitoring
Kemira (Finland & USA)	2018-03-15	Pulp and Paper Industry Consultant supporting numerous clients

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McKinley Paper (NM, USA)	2018-08-17	Operational process control at a recycled cardboard mill
Meadow Lake Mechanical Pulp (SK, Canada)	2020-01-08	Zero effluent mill, uses PeCOD to determine COD in reuse ponds
National Gypsum Co. (AL, USA)	2020-06-19	Correlating BOD for effluent compliance, paper mill for drywall
Twin Rivers Paper Co. (NB, Canada)	2018-07-19	Pulp and paper mill effluent monitoring and process optimization
US Gypsum (TX, USA)	2018-12-05	COD monitoring and process optimization for mill that makes paper for drywall
Westrock (GA, USA)	2018-03-01	Pulp and paper mill effluent monitoring and process optimization