



Commercial Demonstration Program – Inland Empire Paper Co., Spokane, WA

Opportunity

Inland Empire Paper Co. (IEP) was faced with the need to achieve an average Total Phosphorus discharge limit of less than 0.075 mg/L on its 3 MGD plant on the Spokane River by 2018. In pursuit of this effort, IEP made an aggressive evaluation of traditional solutions and was not able to achieve the results desired. Without a solution, IEP faced significant consequences that threatened the long-term viability of a business that had contributed significantly to the Spokane Valley for over 100 years. IEP had an established track record of technological innovation and environmental stewardship and challenged CLEARAS WATER RECOVERY® (Clearas) to recovery Phosphorus to the strictest of standards using its Advanced Biological Nutrient Recovery (ABNR™) technology.



Clearas Approach

IEP and Clearas embarked on an exhaustive series of Demonstration Programs from May 2014 through April 2015 to identify optimal componentry for use in the ABNR process. Final commercial validation is scheduled to commence in the fall of 2015, with capacity to treat upwards of 1.3 million gallons of IEP’s secondary effluent per month.

Results & Impact

Data obtained throughout previous demonstration programs fully validated ABNR’s ability to recover phosphorus and offer IEP a long-term, cost effective and sustainable solution. Average phosphorus recovery during the demonstrations was 85% (as shown below). The Commercial Demonstration project underway in the fall of 2015 will serve as a bridge between the previously executed Demonstration Programs and final commercial build of the ABNR technology at IEP.

