



VIDEO

## Hays KS

Facility upgrades needed for TN and TP for NPDES Permit. CMAR group 2 was selected and Jaeger Aeration was a partner in that group redesign from a 5-stage Bardenpho process.

Effluent guarantee is essential as well as the overall budget. J-A design saved over \$6 million in capital and \$150K per year with lower energy costs.

### OBJECTIVES

- Saved \$6 Million const costs
- Saved \$150K O&M power costs
- Increased redundancy - 28 levels
- BNR effluent without selector basins
- Retrievable diffuser racks and lower O&M
- Provide redesign to achieve capital budget
- Startup process support for BNR effluent

### PRODUCTS USED

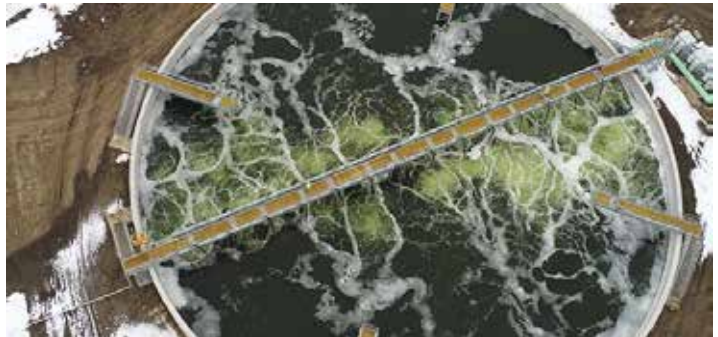
- OxyProcess
- OxyLift
- OxyStrip
- OxyTransport
- OxyCyclic
- OxyBridge

### PERFORMANCE

- TN<1-2 ppm
- TP<1.5 ppm biological
- <0.4 ppm with chemical

### SUMMARY

Jaeger Aeration partnered with the CMAR contractor to redesign the process to reduce project costs. A single 4.2 million gallon basin was designed with 28 levels of aeration redundancy and 4 levels of mixing redundancy. Prefab bridges incorporating air header, power, and lighting were provided in stainless steel and HD galv construction. Expedited construction for the project allowed the startup to meet promised startup dates.



**ORIGINAL FACILITY AND EMPTY AERATION BASIN**



**CONSTRUCTION AND ASSEMBLY OF EXPANSION BASINS WITH WALK**



**FINAL ASSEMBLY**



**JAEGER AERATION LLC**

Pioneer of Fine-Bubble

<i>Phone</i>	+1 970 535 0554
<i>Fax</i>	+1 970 535 0945
<i>Email</i>	info@jaeger-aeration.com
<i>Site</i>	www.jaeger-aeration.com
<i>Corporate Office</i>	4175 Mulligan Drive Longmont, CO 80504 USA