



Criteria	BioPorts
Effluent Quality	
Total Ammonia-Nitrogen (TAN)	<1 mg/L •
Total Nitrogen	<5 mg/L •
Total Phosphorus	<0.05 mg/L •
cBOD ₅	<5 mg/L •
TSS	<5 mg/L •
Reuse	CA Title 22 •
Advantages	
Small footprint fits limited available real estate	•
Simple O&M means you never worry about nutrient limits again	•
Adaptable, expandable, sustainable	•
Applications	
Municipalities requiring treatment intensification	•
Greenfield sites requiring a comprehensive solution	•
Industrial sites with footprint limitations	•

Problem

You need a new wastewater treatment solution. Perhaps you've run out of real estate and need a compact, efficient process. Or maybe your industrial project needs a comprehensive treatment solution.

Nexom's Answer

With the BioPorts™ Water Resource Reclamation Facility (WRRF) you can meet the most stringent organic, solids and nutrient limits with simple O&M in a compact footprint.

Leave process worries behind.

The BioPorts WRRF provides a complete process technology solution while empowering the engineers who know the location best to plan the integrating infrastructure in a way that makes sense for the site.

How building a BioPorts WRRF works

Working with municipal and industrial clients through their consulting engineers, Nexom's team of applications engineers evaluates the required information to ensure treatment technologies will achieve the desired results and the client will never have to worry about their nutrient limits again.

Nexom provides the consulting engineer with detailed process technology design, drawings and specifications which enable the consultant to design the most efficient, region and site-appropriate infrastructure around the core technologies.

Finally, Nexom supplies the primary, secondary, tertiary, and sidestream treatment process equipment. Like all Nexom technologies, these processes minimize footprint and provide treatment intensification with the simplest O&M to keep operators happy while providing efficient, sustainable treatment.

technologies for cleaner water

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What's involved in a BioPorts WRRF

Adaptable to almost any situation.

No matter what requirements you're working with, whether you have nutrient or solids limits, a specific class of

biosolids you need to produce, variable loading or flow, or even practical constraints of real estate and geological profile, the BioPorts WRRF is the simple, sustainable, and comprehensive answer.

Primary



Grinder EcoBELT

Using Nexom's EcoBELT rotating belt filter reduces solids and BOD while eliminating the need for grit removal, all in fraction of the footprint of clarifiers.

Secondary



BioPORTS DAF

Nexom's BioPorts MBBR handles variable loading with ease, needs no special biological education to run, and the durable HDPE media never needs replacing.

Tertiary



BluePRO BlueNite infini-D ZERO-DOWNTIME CLOTH DISK FILTER UV Disinfection

Need to meet stringent Phosphorus or Nitrogen limits? Nexom's proprietary technologies are used to meet North America's lowest known nutrient limits.

Sidestream

Using an EcoBELT and DAF for separation sets up side-stream processes that produce any class of biosolids.



Solids Processing



Dewatering

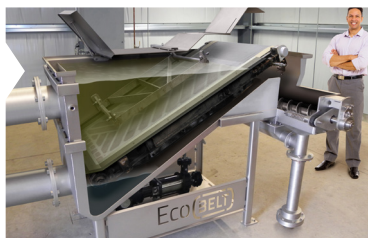
Nexom knows treatment

The Nexom team has specialized in biological treatment for 20 years, covering 500+ projects across Canada and the United States. Our engineers are the leading experts in a range of technologies and invented SAGR cold lagoon nitrification.

Nexom brings this experience and its own patented processes to the world of WRRFs with BioPorts. With dozens of sites already using its core process technologies, the BioPorts WRRF is the choice for comprehensive, compact-footprint treatment to meet Europe's most stringent requirements.

Look Inside

The **EcoBELT rotating belt filter (RBF)** reduces primary TSS by 30-80% and BOD by 20-40%, all with the lowest energy use and simplest O&M of any RBF.



The **BioPorts moving bed biofilm reactor (MBBR)** provides huge surface area to retain biomass in an aerobic basin to remove BOD or nitrify ammonia, or in an anoxic basin for Total Nitrogen removal.



The **infini-D cloth disk filter** is so named because of individual effluent ports that isolate disks' performance and allow them to be maintained without ever interrupting the rest of the system.



Blue PRO reactive filtration uses a continuous-backwash upflow sand filter platform to constantly replace an adsorbent sand coating that captures phosphorus and metals to meet ultra-low limits.

UPGRADING WITH BIOPORTS IS EASY AND EFFECTIVE

1

We walk you through exactly what project details we need. Call 888-426-8180 or email info@nexom.com.

2

We supply design-ready drawings, proprietary technologies, and responsive support.

3

You never worry about your BOD, Ammonia or Total Nitrogen limits again.