

# Nitrate

Target Pollutants

Nitrite, nitrate

**Purus (pure-us)** provides the most advanced level of stormwater treatment for targeted pollutant removal. Typically installed in a "treatment train" configuration after Aquip stormwater filtration and Purus Basic, Purus Nitrate removes soluble nitrite and nitrate from stormwater.

## Applications

**Purus Nitrate** is ideal for industries where nitrogen compounds are used, where organic materials are processed, or where nitrates are present in runoff. These industries can include:

- Aerospace industries
- Fabricated metal products
- Galvanizing
- Rubber & plastics
- Petroleum refining
- Food processing
- Solid waste & recycling
- Fertilizer manufacturing

## Features

- Typical removal efficiency is 80 - 90%, usually to below the numeric action level or benchmark.
- Slip-stream treatment configuration is available for extended run-time applications.
- Flow is matched to upstream pre-treatment systems.

Model	Flowrate (gpm)	Footprint (ft x ft)	Nitrate Capacity (lbs as N)
10	5 - 15	4' x 5'	2
25	12 - 40	5' x 7'	5
50	25 - 75	5' x 8'	10
80	40 - 120	6' x 9'	15
110	60 - 170	7' x 13'	20
160	80 - 240	9' x 13'	30
210	100 - 320	11' x 13'	40
300	150 - 450	11' x 14'	60
400	200 - 600	14' x 17'	80



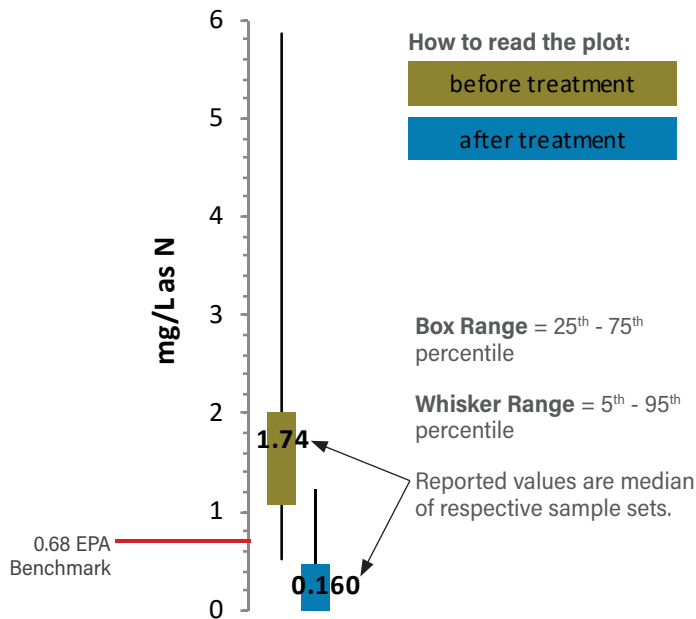
StormwaterRx LLC designs, manufactures, installs and maintains stormwater treatment systems for industrial customers throughout North America. Contact StormwaterRx to find out how we can help you meet your stormwater quality requirements.



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**Performance**

**Nitrite & Nitrate**



**Where does nitrate come from?**

Nitrogen is a common element in all natural materials and in many inorganic industrial chemicals. It exists in different forms including organic nitrogen (e.g. decaying plants and animals, and food products), urea, ammonia, nitrite, nitrate, and nitrogen gas (The atmosphere contains 80% nitrogen.). Nitrogen changes forms continually in the environment following the nitrogen cycle. In stormwater conveyance

systems, organic nitrogen and ammonia in the water are continually being converted by waterborne microorganisms to nitrites and nitrates. This conversion process occurs readily in the presence of air. Purus Nitrates, in conjunction with Aquip pre-treatment filtration, permanently removes the nitrates from the stormwater.



**The Nitrogen Cycle**

