Study Objectives:

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Enabler of polluters?

"We create it, we clean it up - business couldn't be better."

greenlibertarian on **December 15 at 10:36 a.m.**
http://www.sciencecartoonsplus.com/ga…

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Enabler of polluters?

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What cost is society willing to bear?

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Recalcitrant P is common in nature

Typical WWTP effluents are 80-90% BioAvail P

Not clear if this is also the case with
Advanced P removal processes

Which design would you employ if you knew
the %BAP ahead of time?

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Plant A: Effluent TP = 100 µg L^{-1}, %BAP = 80%

Plant B: Effluent TP = 120 µg L^{-1}, %BAP = 20%

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How is this information used in management?

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Our job is to provide scientific information.

Your job is to use this information to manage the resource as best fits the values and resources of your community!

For example:

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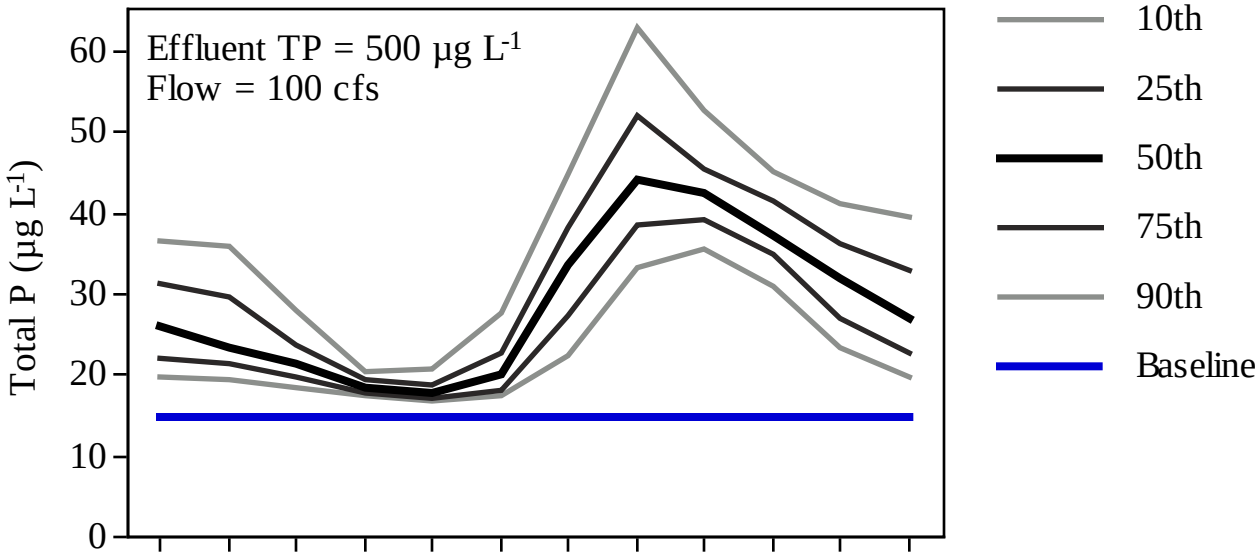


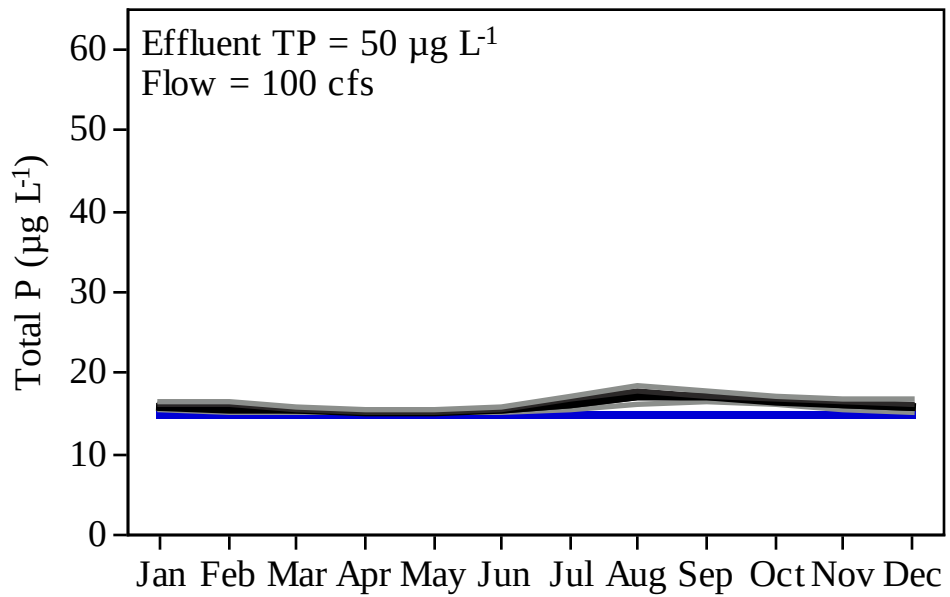
Overall increase
7.8 ± 2.8 µg L^{-1}

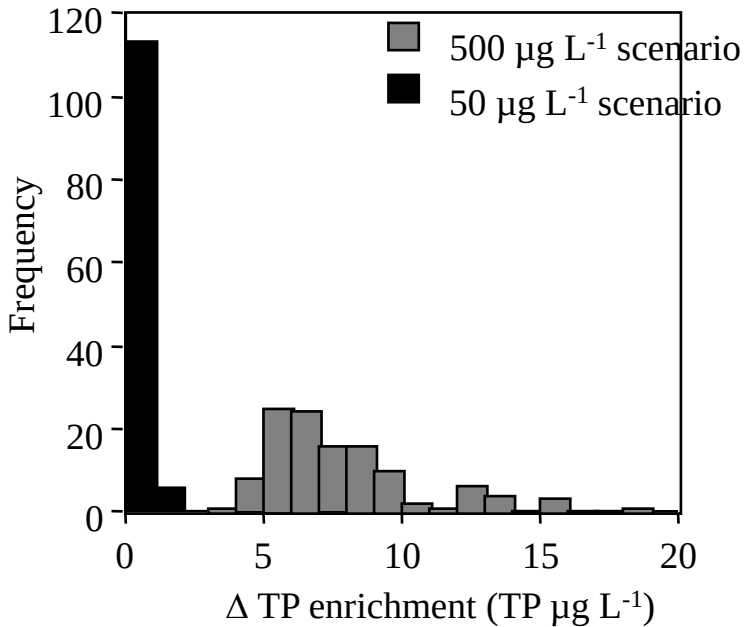
0.6 ± 0.2 µg L^{-1}

Low flow period (July-Oct)
22.9 ± 6.7 µg L^{-1}

1.7 ± 0.5 µg L^{-1}

Either way, Δ TP is reduced by > 90%





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What does this mean for Lake Spokane WQ?

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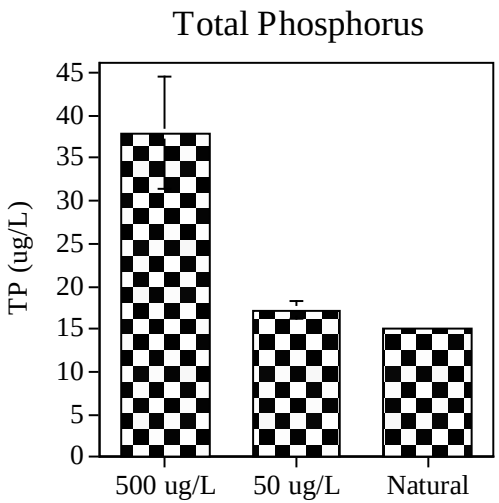

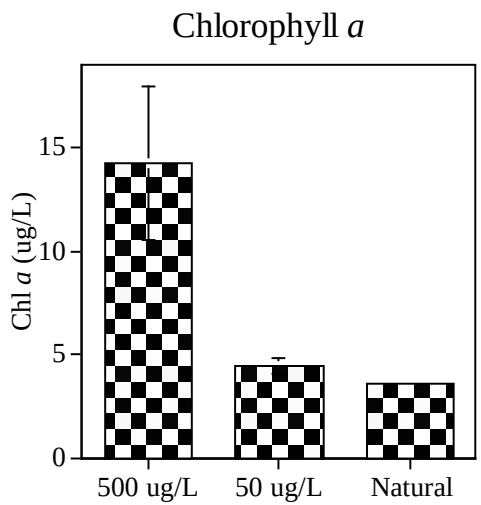

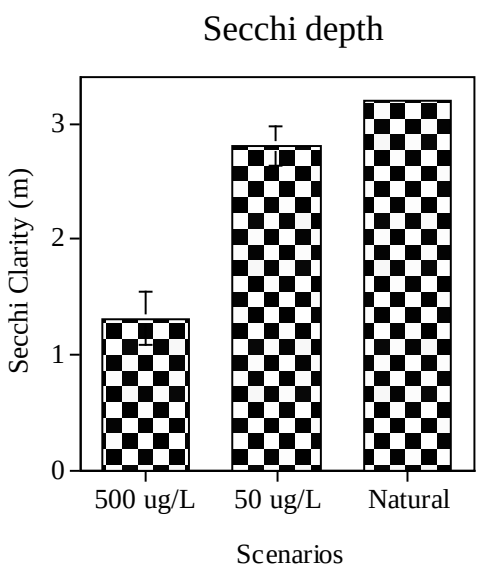

Using the classic "Trophic State Index" equations (Carlson 1977; L&O 22: 361-)

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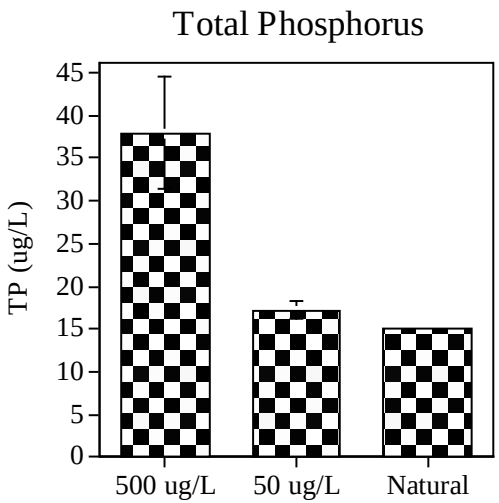
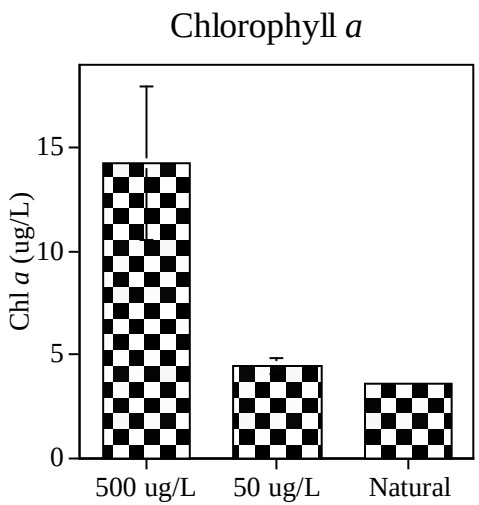
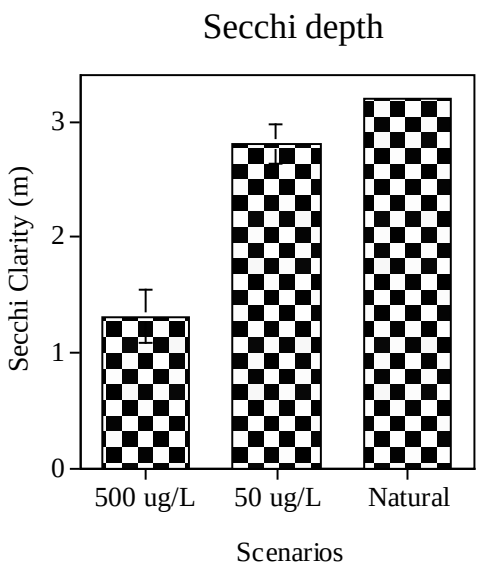
What does this mean for Lake Spokane WQ?







What if you are worried about the wrong thing?