

briefed by Burks at this meeting from his August Reg. 85 nutrient sampling report were:

In uent TP – 7.7 mg/l  
 Discharged ef uent TP – 5.3 mg/l  
 Arnold Ave. in-stream TP – 0.04 mg/l  
 Baptist Road downstream TP – 0.87 mg/l

The June TIN sample concentrations briefed at this meeting by Burks in his August Reg. 85 report to the state confirm Tamburini's statement that TIN is not a problem for Tri-Lakes:

In uent ammonia (NH3) – 29 mg/l  
 Discharged ef uent NH3 – 0.3 mg/l  
 Arnold Ave. in-stream NH3 – 0.02 mg/l  
 Baptist Road down-stream NH3 – 0.11 mg/l

In uent nitrite (NH2-N) – 0.00 mg/l

Discharged NH2-N – 0.10 mg/l  
 Arnold Ave. in-stream NH2-N – 0.00 mg/l  
 Baptist Road down-stream NH2-N – 0.00 mg/l

In uent nitrate (NO3-N) – 0.00 mg/l

Discharged ef uent NO3-N – 8.50 mg/l  
 Arnold Ave. in-stream NO3-N – 0.00 mg/l  
 Baptist Road down-stream NO3-N – 0.90 mg/l

The Tri-Lakes facility's treated ef uent that is discharged to upper Monument Creek already complies with the state's annual Reg. 85 rolling 12-month median limit for TIN of 15 mg/l. However, the daily maximum limit in the current Tri-Lakes five-year state discharge permit for TIN will drop from 23 mg/l to 14 mg/l in July 2016, despite the higher Reg. 85 rolling annual median limit of 15 mg/l that became effective on July 1, 2013.

This 14 mg/l daily maximum limit is far more difficult to comply with using a biological nutrient reduction (BNR) treatment train, which is preferred by both the state and the EPA over an older conventional

chemical treatment train, even though BNR is much harder to control and more vulnerable to major bacteriological upsets where all the bacteria that digest the wastes can be catastrophically killed by a variety of potential disruptions.

Tamburini stated that the

new tighter daily maximum limit from the EPA for ammonia as well as the tighter daily maximum state permit limit of 14 mg/l for TIN to be imposed in 2016 will require continuous aeration capability at Tri-Lakes. A new emergency plant backup electrical generator will be re-

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