

LATE REVISIONS
City of Lodi
White Slough Water Pollution Control Facility
Proposed Tentative NPDES Permit
Regional Water Quality Control Board, Central Valley Region
Board Meeting – 13/14 September 2007
ITEM #15

1. In the NPDES Permit, Section IV.A.1. Final Effluent Limitations (7.0 mgd) – Discharge Point 001

Modify Table 6, as follows:

Table 6. Effluent Limitations (7.0 mgd)

Parameter	Units	Effluent Limitations				
		Average Monthly	Average Weekly	Maximum Daily	Instantaneous Minimum	Instantaneous Maximum
Ammonia (as N) ²	mg/L	2.7 <u>1.3</u>	--	4.3	--	--
	lbs/day ¹	458 <u>75.9</u>	--	251	--	--

2. In the NPDES Permit, Section IV.A.2. Final Effluent Limitations (7.2 mgd) – Discharge Point 001

Modify Table 7, as follows:

Table 7. Effluent Limitations (7.2 mgd)

Parameter	Units	Effluent Limitations				
		Average Monthly	Average Weekly	Maximum Daily	Instantaneous Minimum	Instantaneous Maximum
Ammonia (as N) ²	mg/L	2.7 <u>1.3</u>	--	4.3	--	--
	lbs/day ¹	458 <u>78.1</u>	--	251	--	--

3. In the NPDES Permit, Section IV.A.3. Final Effluent Limitations (8.5 mgd) – Discharge Point 001

Modify Table 8, as follows:

Table 8. Effluent Limitations (8.5 mgd)

Parameter	Units	Effluent Limitations				
		Average Monthly	Average Weekly	Maximum Daily	Instantaneous Minimum	Instantaneous Maximum
Ammonia (as N) ²	mg/L	2.7 <u>1.3</u>	--	4.3	--	--
	lbs/day ¹	458 <u>92.2</u>	--	251	--	--

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4. In the NPDES Permit, Section IV.B.5. Secondary Treated Effluent Discharged to Ponds.

Modify Table 10, as follows:

Table 10. Secondary Treated Effluent Limitations

Parameter	Units	Effluent Limitations	
		Average Monthly	Maximum Daily
BOD 5-day @ 20°C	mg/L	20 <u>40</u>	50 <u>80</u>
Total Suspended Solids <u>Settleable Solids</u>	mg <u>mL/L</u>	20 <u>0.2</u>	50 <u>0.5</u>

5. In the NPDES Permit, Attachment E, Section VI - Land Discharge Monitoring Requirements

Add subsection C., as follows:

C.. Monitoring Location EFF-001, Municipal Wastewater Discharges to Storage Ponds

1. At a minimum, the Discharger shall monitor the municipal wastewater discharged to the storage ponds at Monitoring Location EFF-001 as required in Table E-7. Sampling is only required during periods when municipal wastewater is discharged to ponds.

Table E-7 Discharges of Municipal Wastewater to Storage Ponds

<u>Parameter</u>	<u>Units</u>	<u>Sample Type</u>	<u>Minimum Sampling Frequency</u> ³
<u>BOD 5-day @ 20°C</u>	<u>mg/L</u>	<u>24-hour composite</u> ¹	<u>1/week/event</u>
<u>Settleable Solids</u>	<u>mL/L</u>	<u>Grab</u>	<u>1/week/event</u>

¹ 24-hour flow proportioned composite.

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6. In the NPDES Permit, Attachment F, Section IV.C.3.f.ii – Determining the Need for WQBELs – Ammonia

Modify the second paragraph of subsection ii., as follows:

In order to develop the effluent limitations using the procedures in the TSD, the coefficient of variation must be calculated. Five years of effluent monitoring data (2002 – 2006) were used to estimate the CV in order to increase the statistical power of the method of calculation. Based on 535 samples, the average concentration of ammonia is 1.01 mg/L, and the standard deviation is 2.9. The resulting effluent limitations are ~~2.7~~1.3 mg/L (as N) for the average monthly effluent limitation and 4.3 mg/L (as N) for the maximum daily effluent limitation. Table F-7 presents the various factors and coefficients used to calculate the effluent limitations.

7. In the NPDES Permit, Attachment F, Section IV.C.4. WQBEL Calculations

Modify Table F-7, as follows:

Table F- 7
WQBEL Calculations for Ammonia

	Annual CV ¹ = 2.88		
	Acute	Chronic	
		30-day	4-day
Criteria (mg/L) ⁽²⁾	4.28	1.19	2.98
Dilution Credit	No Dilution	No Dilution	No Dilution
ECA	4.28	1.19	2.98
ECA Multiplier	0.09	0.36 ⁽³⁾	0.17
LTA	0.40	0.43	0.6
AMEL Multiplier (95 th %)	6.74 <u>3.26</u>	⁽⁴⁾	⁽⁴⁾
AMEL (mg/L)	2.7 <u>1.3</u>	⁽⁴⁾	⁽⁴⁾
MDEL Multiplier (99 th %)	10.57	⁽⁴⁾	⁽⁴⁾
MDEL (mg/L)	4.3	⁽⁴⁾	⁽⁴⁾

⁽¹⁾ Coefficient of Variation

⁽²⁾ USEPA Ambient Water Quality Criteria

⁽³⁾ Calculated based on the TSD modification presented in the 22 December 1999 Federal Register notice where $\sigma^2 = \ln(CV^2/30 + 1)$

⁽⁴⁾ Limitations based on acute LTA ($LTA_{acute} < LTA_{chronic}$)

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8. In the NPDES Permit, Attachment F, Section IV.C.4. WQBEL Calculations

Modify Table F-10, as follows:

Table F-10. Summary of Water Quality-based Effluent Limitations

Parameter	Units	Effluent Limitations				
		Average Monthly	Average Weekly	Maximum Daily	Instantaneous Minimum	Instantaneous Maximum
Ammonia (as N)	mg/L	<u>2.7</u> 1.3		4.3		