

ADDENDUM TO THE FACT SHEET
FOR NATIONAL POLLUTANT DISCHARGE
ELIMINATION SYSTEM (NPDES)
PERMIT NO. WA0020834

I. GENERAL INFORMATION

Facility: Town of Carbonado Wastewater Treatment Plant
Tubbs Road
Carbonado, WA

II. APPLICATION REVIEW

The town of Carbonado (Town) submitted an application to the Department of Ecology (Ecology) on December 18, 2008, and January 28, 2009, for permit reissuance, and Ecology accepted it on March 11, 2009. Ecology has sufficiently reviewed the application, discharge monitoring reports, and other facility information.

From the time the previous permit was issued until October 2007, the Town was generally not in compliance with permit effluent limitations. The most frequently exceeded parameter was effluent BOD. Other parameters occasionally exceeded were TSS percent removal, fecal coliform bacteria, and total residual chlorine. Ecology staff at the time felt many of the effluent violations were related to poor sludge management.

In October, 2007, the Town reported that its lagoon was leaking and that all wastewater in the lagoon was discharging to ground through the liner hole. Ecology issued an Administrative Order (No. 5288) to the Town in January 2008, requiring the town to fix the lagoon liner and submit an Operation and Maintenance (O&M) Manual that included provisions addressing sludge removal. In 2008, the Town removed all remaining solids from the lagoon and installed a new liner, completing the installation in October. Ecology received the final O&M Manual in March 2009.

This permit requires the Permittee to evaluate annually treatment efficiency as affected by sludge depth, and the need to pump or dredge the solids from the lagoon.

III. PERMIT REAUTHORIZATION

When Ecology reauthorizes a discharge permit it essentially reissues the permit with the existing limits, terms and conditions. Alternatively, when Ecology renews a permit it re-evaluates the impact of the discharge on the receiving water which may lead to changes in the limits, terms and conditions of the permit.

This fact sheet addendum accompanies the permit, which Ecology proposes to reauthorize for the discharge of wastewater to the Carbon River. The previous fact sheet explains the basis for the discharge limitations and conditions of the reauthorized permit and remains as part of the administrative record.

Ecology determined it does not need to change the existing permit requirements, including discharge limits and monitoring, to protect the receiving water receiving quality. The previous fact sheet addressed conditions and issues at the facility at the time when Ecology issued the previous permit in 2004. Since the issuance of the current permit, Ecology has not received any additional information which indicates that environmental impacts from the discharge warrant a complete renewal of the permit. The reauthorized permit is virtually identical to the previous permit issued on June 7, 2004.

Ecology reviewed inspections and assessed compliance of the The town of Carbonado discharge with the terms and conditions in the previous permit and determined that it should not rank the facility as a high priority for permit renewal. Ecology assigns a high priority for permit renewals in situations where water quality would benefit from a more stringent permit during the next five-year cycle.

The permit reauthorization process, along with the renewal of high priority permits, allows Ecology to reissue permits in a timely manner and minimize the number of active permits that have passed their expiration dates. For permit reissuance planning purposes, Ecology follows a system of ranking that considers the benefit gained by renewing a permit rather than reauthorizing a permit during its annual permit planning process. Ecology assesses each permit that is expiring and due for reissuance and compares it with other permits due for reissuance. Ecology notifies the public and seeks input after it has tentatively established the initial draft ranking of the permits it plans to renew and those it plans to reauthorize. Ecology considers all relevant comments and suggestions before it makes a final decision.

Ecology carried over the discharge limits and conditions in effect at the time of expiration of the previous permit to this reauthorized permit. Ecology only changed the submittal dates for reports from those in the previous permit. Ecology removed the completed report requirements that do not require additional or continued assessment. It adjusted the dates for the other standard compliance and submittal requirements that it carried over from the past permit into this reauthorized permit. Ecology considered these reports necessary in the previous permit and no information has come forward to cause it to reconsider.

As part of the review of the permit and the implementation of new temperature standards, and using conservative estimates of the effluent and receiving water temperatures, Ecology determined that the discharge does not have the potential to violate temperature standards in the receiving water. As a result, Ecology is not requiring monitoring for temperature (see Appendix A for Temperature Analysis).

Ecology must public notice the availability of the draft reauthorized permit at least 30 days before it reissues the permit [Washington Administrative Code (WAC) 173-220-050]. Ecology invites you to review and comment on its decision to reauthorize the permit (see Appendix B-Public Involvement for more detail on the Public Notice procedures).

After the public comment period has closed, Ecology will prepare a response to comments document that it will attach to this fact sheet addendum. The response to comments will include the resultant changes to the permit and either address each comment individually or summarize the substantive comments and respond. Ecology sends a copy of the response to comments to all parties who submitted comments. Ecology will include the response to comments in this fact sheet addendum.

IV. RECOMMENDATION FOR PERMIT ISSUANCE

Ecology proposes to reissue this permit for five years.

Appendix A

T-MIX FRESH 8-30-08 a spreadsheet for calculating reasonable potential and limits for temperature

T-MixFresh is based on WAC 173-201A-200(1)(c)(i)--(ii) and Water Quality Program Guidance.

Developed by Eric Schlorff and Laura Fricke (2008)

All Data inputs must meet WQ guidelines.

The Water Quality temperature guidance document may be found at:

<http://www.ecy.wa.gov/biblio/0610100.html>

Notes: Carbonado Temperature Analysis

	Core Summer Criteria	Supplemental Criteria, Not Required	
INPUT	July 1-Sept 14	Sept 15-July 1	
1. Chronic Dilution Factor at Mixing Zone Boundary	398.0		
2. 7DADMax Ambient Temperature (T) (Upstream Background 90th percentile)	16.0 °C		assumed
3. 7DADMax Effluent Temperature (95th percentile)	24.0 °C		assumed
4. Aquatic Life Temperature WQ Criterion in Fresh Water	16.0 °C		
OUTPUT			
5. Temperature at Chronic Mixing Zone Boundary:	16.0 °C	#DIV/0!	
6. Incremental Temperature Increase or decrease:	0.0 °C	#DIV/0!	
7. Incremental Temperature Increase $28/(T+7)$ if $T \leq$ criteria:	---	---	
8. Maximum Allowable Temperature at Mixing Zone Boundary:	16.3 °C	0.3 °C	
A. If ambient temp is warmer than WQ criterion			
9. Does temp fall within this warmer temp range?	YES	YES	
10. Temp increase allowed at mixing zone boundary, if required:	NO LIMIT	#DIV/0!	
B. If ambient temp is cooler than WQ criterion but within $28/(T_{amb}+7)$ and within 0.3 °C of the criterion			
11. Does temp fall within this incremental temp. range?	---	---	
12. Temp increase allowed at mixing zone boundary, if required:	---	---	
C. If ambient temp is cooler than (WQ criterion-0.3) but within $28/(T_{amb}+7)$ of the criterion			
13. Does temp fall within this Incremental temp. range?	---	---	
14. Temp increase allowed at mixing zone boundary, if required:	---	---	
D. If ambient temp is cooler than (WQ criterion - $28/(T_{amb}+7)$)			
15. Does temp fall within this Incremental temp. range?	---	---	
16. Temp increase allowed at mixing zone boundary, if required:	---	---	
17. Do any of the above cells show a temp increase?	NO	NO	
18. Temperature Limit if Required?	NO LIMIT	NO LIMIT	

APPENDIX B--PUBLIC INVOLVEMENT INFORMATION

Ecology proposes to reissue a permit to The town of Carbonado. The permit includes wastewater discharge limits and other conditions. This fact sheet addendum describes the facility and Ecology's reasons for reauthorizing the permit conditions.

Ecology placed a Public Notice of Application on June 9, 2008, and June 16, 2008, in the *Tacoma News Tribune* to inform the public about the submitted application and to invite comment on the reissuance of this permit.

Ecology will place a Public Notice of Draft on April 22, 2009, in the *Tacoma News Tribune* to inform the public and to invite comment on the proposed draft National Pollutant Discharge Elimination System permit and fact sheet addendum.

The Notice –

- Tells where copies of the draft Permit and Fact Sheet are available for public evaluation (a local public library, the closest Regional or Field Office, posted on our website.).
- Offers to provide the documents in an alternate format to accommodate special needs.
- Urges people to submit their comments, in writing, before the end of the Comment Period
- Tells how to request a public hearing of comments about the proposed NPDES Permit.
- Explains the next step(s) in the permitting process.

Ecology has published a document entitled **Frequently Asked Questions about Effective Public Commenting** which is available on our website at <http://www.ecy.wa.gov/biblio/0307023.html>.

You may obtain further information from Ecology by telephone, 360-407-6279, or by writing to the permit writer at the address listed below.

Water Quality Permit Coordinator
Department of Ecology
Southwest Regional Office
P.O. Box 47775
Olympia, WA 98504-7775

The primary author of this permit and fact sheet is Carey Cholski.