

# OWRB Hearing

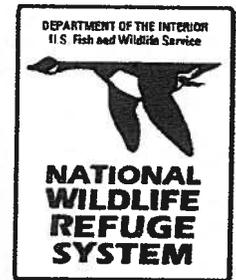
FWS  
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**May 15, 2012**

**Sulphur, Oklahoma**

**Peter Burck, Regional Hydrologist**



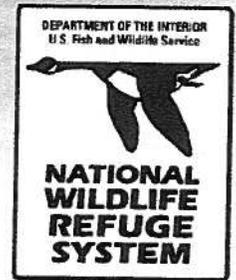
**Tishomingo National Fish Hatchery  
and  
Tishomingo National Wildlife Refuge  
depend heavily on Pennington Creek  
flows to operate**



**Tishomingo National Fish Hatchery**

**1) Entitled to divert 10 cubic feet per second from Pennington Creek under OWRB Permit No. 1931-0018**

**2) Holds Temporary Groundwater Permit No. 1997-693 for 420 acre-feet per year**



# **Tishomingo National Wildlife Refuge**

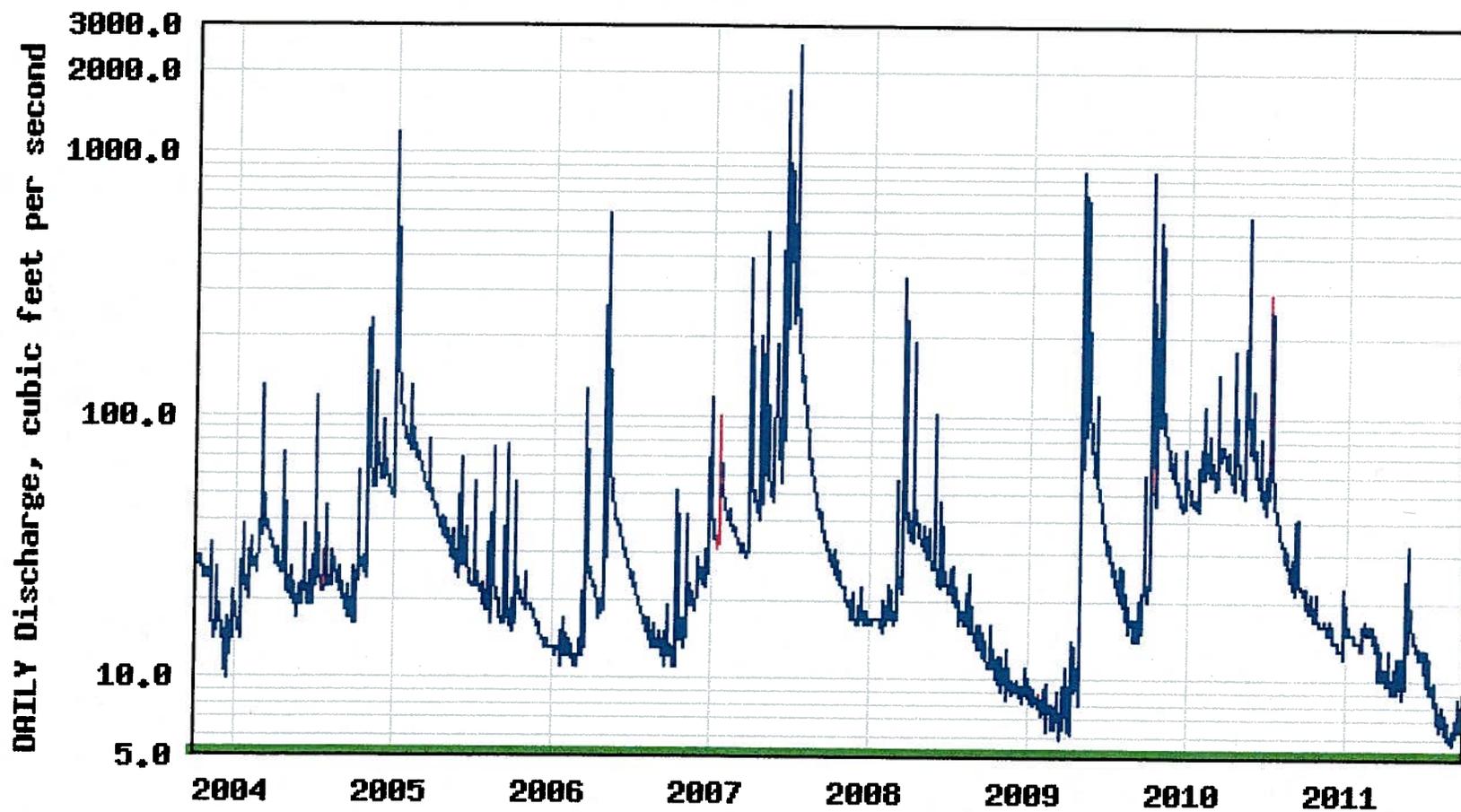
**1) Entitled to surface water from Big Sandy Creek under an existing OWRB Permit**

**2) Application 2005-0017 is pending before the OWRB for flows from Pennington Creek**

<b>USGS REPORT 2011-5029</b> <b>Page 87, Table 24</b> <b>5-Year Average Base Flow (cubic feet per second) for Pennington Creek</b>	<b>Depletion of 5-Year Average Base Flow (percent) for Pennington Creek</b>
<b>Reported Water Use = 32.19 cfs</b>	
<b>EPS 0.125 af/a/yr = 24.42 cfs</b>	<b>EPS 0.125 af/a/yr = 24.1 %</b>
<b>EPS 0.250 af/a/yr = 16.72 cfs</b>	<b>EPS 0.250 af/a/yr = 48.0 %</b>
<b>EPS 0.392 af/a/yr = 8.03 cfs</b>	<b>EPS 0.392 af/a/yr = 75.1 %</b>



## USGS 07331300 Pennington Creek near Reagan, OK



- Daily mean discharge
- Estimated daily mean discharge
- Period of approved data