

APPENDIX P:

PADEP Preliminary effluent limits



Distribution #11

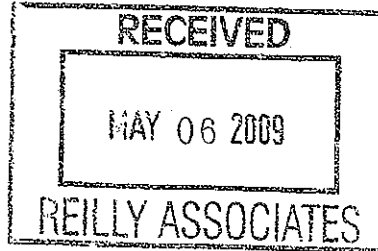
Pennsylvania Department of Environmental Protection

2 Public Square
Wilkes-Barre, PA 18711-0790
May 4, 2009

Northeast Regional Office

570-826-2511
Fax 570-830-3016

Mr. Jeremy Nelson
Reilly Associates
49 South Main Street
Pittston, PA 18640



Re: Sewage
Preliminary Effluent Limits
Bear Creek Township, Luzerne County

Dear Mr. Nelson:

In response to your correspondence dated December 10, 2008 and March 30, 2009, we have developed preliminary effluent limits for the proposed discharge locations listed below. Any changes in the size or location of any of these discharges will require a reevaluation. The preliminary effluent limits are:

**0.140 MGD Discharge Into Laurel Run (CWF)
Downstream of Junction with Deep Hollow
Latitude: 41°14'7.67"; Longitude: 75°48'41.15"**

Parameter	Monthly Average	Instantaneous Maximum
CBOD ₅	25.0	50.0
Total Suspended Solids	30.0	60.0
NH ₃ -N (5/1 to 10/31)	3.6	7.2
NH ₃ -N (11/1 to 4/30)	10.8	21.6
pH	6 to 9 standard units at all times	
Fecal Coliform (5/1 to 9/30)	200/100 ml (geo. avg.)	
Fecal Coliform (10/1 to 4/30)	2,000/100 ml (geo. avg.)	
Total Residual Chlorine	0.6	1.4
Dissolved Oxygen	Minimum of 5.0 mg/l at all times	
Total Net Nitrogen	0 pounds per year	
Total Net Phosphorus	0 pounds per year	

Please note that the Total Net Nitrogen and Total Net Phosphorus limits for Laurel Run are in accordance with the Chesapeake Bay Tributary Strategy, which imposes a zero net increase allocation for Total Nitrogen (TN) and Total Phosphorus (TP) loads for new facilities resulting in a discharge of treated sewage effluent to surface waters of the Commonwealth that are tributary to the Bay. In some cases, new loads may be offset from other point or non-point sources. Offsets may be achieved through various combinations of options, including treatment followed by proper land application, retiring of existing non-point source loads, recycle/reuse, advanced treatment, or purchasing of nutrient credits through the Department's nutrient trading program. For more information on the Chesapeake Bay Tributary Strategy, please refer to the following link on the DEP website: www.depweb.state.pa.us/chesapeake.

**0.140 MGD Discharge Into Bear Creek (HQ-CWF)
Downstream of Bear Creek Lake
Latitude: 41°10'26"; Longitude: 75°45'13"**

Parameter	Monthly Average	Instantaneous Maximum
CBOD ₅	10.0	20.0
Total Suspended Solids	3.4	6.8
NH ₃ -N	0.02	0.04
NO ₂ -NO ₃	9.8	19.6
Total Phosphorus	0.02	0.04
pH	6 to 9 standard units at all times	
Fecal Coliform (5/1 to 9/30)	200/100 ml (geo. avg.)	
Fecal Coliform (10/1 to 4/30)	2,000/100 ml (geo. avg.)	
Total Residual Chlorine	0.0	0.0
Dissolved Oxygen	Minimum of 3.0 mg/l at all times	

With regards to Bear Creek, please note that the Department's anti-degradation regulations (Section 93.4(c), Title 25 Pa. Code Chapter 93) require anyone proposing a new discharge to high quality waters to evaluate all non-discharge alternatives to a proposed discharge, and that an alternative that is environmentally sound and cost-effective when compared to the cost of the proposed discharge, must be utilized. If a non-discharge alternative is not environmentally sound and cost-effective, a new, additional or increased discharge shall use the best available combination of cost-effective treatment, land disposal, pollution prevention and wastewater reuse technologies.

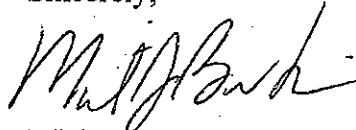
In addition, a discharge to Bear Creek may also be subject to effluent limitations and requirements by the Delaware River Basin Commission (DRBC). Please contact the DRBC for more information at (690) 883-9500.

Issuance of these preliminary limits does not represent approval for a discharge to waters of the Commonwealth. This information is provided as an aid in evaluating alternative wastewater disposal methods.

To meet the requirements of the Sewage Facilities Act, the proposed facility must be included in the municipality's Official Plan for Wastewater Management approved by the Department. When the municipality has a Department-approved Official Plan that addresses this project, permit applications may be submitted. Please remember that an NPDES permit application must be filed with the Department at least 180 days before you propose to commence discharge of treated wastewater. A Water Management Part II permit must be obtained from the Department prior to starting construction. Permit applications can be obtained by contacting this office or on the Department's website at the following address: www.dep.state.pa.us.

If you have any questions, feel free to call me at 570-826-2318.

Sincerely,



Michael J. Brunamonti, P.E.
Environmental Engineer Manager
Permits Section
Water Management Program

cc: Bear Creek Township Board of Supervisors