

**Table 3. Selenium Concentrations (ug/l) Near Spruce No. 1 Project Area**

Stream Name	Subbasin	Source and time period of data					
		PEIS (2000-2001)		WVDEP (2002-2003)		WVDEP (2005-2007)	
		Se (avg)	Se (range)	Se (avg)	Se (range)	Se (avg)	Se (range)
<b>Average and Range of Se in Tribes to Spruce Fork that drain Spruce No. 1 project area</b>							
White Oak Branch	Spruce Fork	<3 ND		<5 ND		NS	
Oldhouse Branch	Spruce Fork	<3 ND		<5 ND		NS	
Pigeonroost Branch	Spruce Fork	<3 ND		<5 ND		NS	
Seng Camp Creek	Spruce Fork	NS		<5 ND		NS	

<b>Average and Range of Se in Tribes to Spruce Fork draining Dal-Tex Operation</b>							
Beech Creek <sup>11</sup>	Spruce Fork	7.5	5.6-9.5	6	5.0-9.0	12.3	6.0-22.0
Left Fork of Beech Creek	Spruce Fork	22.7	15.3-31.1	22	5.0-53.0	NS	
Trace Branch	Spruce Fork	NS	NS	7	5.0-10.0	NS	
Rockhouse Branch	Spruce Fork	5.3	3.8-8.0	< 5 ND	< 5 ND	NS	

ND: Se not detected. Detection limit shown.

NS: Not sampled. Stream was not sampled for the study shown.

Graphical trends of selenium concentrations from Discharge Monitoring Report (DMR) records for January 2007 to June 2010 from three outfalls from the Dal-Tex Mine Operations are shown in the following Figures 9-11. These demonstrate that the discharges from those outfalls consistently exceed West Virginia's chronic numeric water quality criterion for selenium (5 µg/L).

<sup>11</sup> In the WVDEP study on selenium bioconcentration factors, selenium was also found in fish tissue in Beech Creek (average 7.55 mg/kg).