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Water-Data Report 2007

**12433542 BLUE CREEK ABOVE MIDNITE MINE DRAINAGE, NEAR WELLPINIT, WA**

Spokane Basin  
Lower Spokane Subbasin

LOCATION.--Lat 47°55'28", long 118°05'18" referenced to North American Datum of 1927, in NW ¼ SE ¼ sec.13, T.28 N., R.37 E., Stevens County, WA, Hydrologic Unit 17010307, Spokane Indian Reservation, on right bank, 2.4 mi downstream from Turtle Lake, and 5.4 mi northwest of Wellpinit.

DRAINAGE AREA.--6.0 mi<sup>2</sup>.

**SURFACE-WATER RECORDS**

PERIOD OF RECORD.--June 1984 to October 1998, January 2000 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 2,070 ft above NGVD of 1929, from topographic map.

REMARKS.--Records poor. No regulation or diversion upstream from station. U.S. Geological Survey satellite telemeter at station.

AVERAGE DISCHARGE FOR PERIOD OF RECORD.--21 years (water years 1985-98, 2001-07), 1.23 ft<sup>3</sup>/s, 2.78 in/yr, 890 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 65 ft<sup>3</sup>/s, Mar. 22, 1997, gage height, 3.22 ft; minimum discharge, 0.01 ft<sup>3</sup>/s, Aug. 12, 13, 1992, gage height, 0.86 ft.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 7.4 ft<sup>3</sup>/s, Mar. 24, gage height, 1.67 ft; minimum discharge, 0.06 ft<sup>3</sup>/s, part of each day Sept. 16, 22-26, 30.

**12433542 BLUE CREEK ABOVE MIDNITE MINE DRAINAGE, NEAR WELPINIT, WA—Continued**

**DISCHARGE, CUBIC FEET PER SECOND**  
**WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007**  
**DAILY MEAN VALUES**  
[*e*, estimated]

<b>Day</b>	<b>Oct</b>	<b>Nov</b>	<b>Dec</b>	<b>Jan</b>	<b>Feb</b>	<b>Mar</b>	<b>Apr</b>	<b>May</b>	<b>Jun</b>	<b>Jul</b>	<b>Aug</b>	<b>Sep</b>
<b>1</b>	0.17	e0.19	e0.26	e0.26	e0.25	0.91	5.3	1.7	0.82	0.44	0.23	0.13
<b>2</b>	0.19	e0.20	e0.25	e0.30	e0.23	0.89	5.1	1.7	0.76	0.40	0.23	0.12
<b>3</b>	0.19	e0.21	e0.25	e0.39	e0.23	0.93	4.9	1.6	0.74	0.39	0.22	0.12
<b>4</b>	0.19	e0.22	e0.25	e0.36	e0.25	1.0	4.7	1.6	0.83	0.38	0.22	0.12
<b>5</b>	0.18	e0.23	e0.24	e0.31	e0.27	1.1	4.5	1.6	1.1	0.38	0.22	0.11
<b>6</b>	0.17	e0.24	e0.23	e0.29	e0.28	1.1	4.3	1.5	0.86	0.38	0.21	0.12
<b>7</b>	0.17	e0.25	e0.22	e0.29	e0.29	1.2	4.0	1.5	0.75	0.37	0.20	0.11
<b>8</b>	0.17	e0.25	e0.23	e0.30	e0.30	1.4	3.8	1.4	0.74	0.37	0.21	0.10
<b>9</b>	0.17	e0.25	e0.24	e0.31	0.30	1.6	3.5	1.4	0.72	0.36	0.21	0.09
<b>10</b>	0.17	e0.26	e0.25	e0.33	0.31	1.8	3.3	1.3	0.69	0.35	0.20	0.09
<b>11</b>	0.17	e0.28	e0.26	e0.28	0.42	2.4	3.2	1.3	0.65	0.34	0.18	0.09
<b>12</b>	0.15	e0.27	e0.28	e0.24	0.42	3.8	3.1	1.3	0.65	0.34	0.17	0.08
<b>13</b>	0.14	e0.27	e0.29	e0.22	0.41	5.2	2.9	1.2	0.65	0.33	0.18	0.08
<b>14</b>	0.14	e0.26	e0.34	e0.20	0.41	5.5	3.0	1.2	0.64	0.33	0.16	0.08
<b>15</b>	0.18	e0.25	e0.33	e0.21	0.48	5.8	2.8	1.2	0.64	0.33	0.17	0.08
<b>16</b>	0.40	e0.24	e0.30	e0.23	0.51	6.4	2.7	1.2	0.61	0.33	0.16	0.08
<b>17</b>	0.21	e0.22	e0.28	e0.25	0.54	6.4	2.6	1.1	0.58	0.32	0.16	0.07
<b>18</b>	0.21	e0.22	e0.26	e0.27	0.58	6.7	2.5	1.1	0.56	0.33	0.15	0.08
<b>19</b>	0.21	e0.24	e0.23	e0.29	0.63	6.9	2.4	1.1	0.55	0.35	0.20	0.09
<b>20</b>	0.21	e0.25	e0.23	e0.28	0.66	7.0	2.3	1.0	0.54	0.33	0.21	0.09
<b>21</b>	0.21	e0.25	e0.25	e0.29	0.68	7.0	2.3	1.1	0.54	0.33	0.18	0.09
<b>22</b>	0.21	e0.26	e0.26	e0.30	0.74	6.9	2.2	1.0	0.53	0.30	0.19	0.08
<b>23</b>	0.21	e0.28	e0.25	e0.31	0.76	6.9	2.2	1.0	0.51	0.29	0.19	0.07
<b>24</b>	e0.22	e0.29	e0.26	e0.28	0.76	7.2	2.0	0.99	0.51	0.27	0.17	0.07
<b>25</b>	e0.22	e0.29	e0.27	e0.27	0.81	7.2	2.0	0.99	0.51	0.25	0.15	0.07
<b>26</b>	e0.23	e0.29	e0.27	e0.27	0.82	6.8	2.0	0.94	0.50	0.26	0.14	0.07
<b>27</b>	e0.23	e0.28	e0.28	e0.26	0.92	6.7	1.8	0.95	0.50	0.26	0.14	0.07
<b>28</b>	e0.22	e0.27	e0.27	e0.25	0.93	6.3	1.8	0.90	0.49	0.25	0.14	0.08
<b>29</b>	e0.20	e0.26	e0.26	e0.26	---	6.1	1.7	0.88	0.48	0.24	0.14	0.09
<b>30</b>	e0.20	e0.26	e0.25	e0.25	---	5.9	1.7	0.87	0.46	0.24	0.14	0.07
<b>31</b>	e0.19	---	e0.25	e0.26	---	5.6	---	0.86	---	0.23	0.15	---
<b>Total</b>	6.13	7.53	8.09	8.61	14.19	140.63	90.6	37.48	19.11	10.07	5.62	2.69
<b>Mean</b>	0.20	0.25	0.26	0.28	0.51	4.54	3.02	1.21	0.64	0.32	0.18	0.09
<b>Max</b>	0.40	0.29	0.34	0.39	0.93	7.2	5.3	1.7	1.1	0.44	0.23	0.13
<b>Min</b>	0.14	0.19	0.22	0.20	0.23	0.89	1.7	0.86	0.46	0.23	0.14	0.07
<b>Ac-ft</b>	12	15	16	17	28	279	180	74	38	20	11	5.3
<b>Cfsm</b>	0.03	0.04	0.04	0.05	0.08	0.76	0.50	0.20	0.11	0.05	0.03	0.01
<b>In.</b>	0.04	0.05	0.05	0.05	0.09	0.87	0.56	0.23	0.12	0.06	0.03	0.02

**STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1984 - 2007, BY WATER YEAR (WY)**

	<b>Oct</b>	<b>Nov</b>	<b>Dec</b>	<b>Jan</b>	<b>Feb</b>	<b>Mar</b>	<b>Apr</b>	<b>May</b>	<b>Jun</b>	<b>Jul</b>	<b>Aug</b>	<b>Sep</b>
<b>Mean</b>	0.16	0.20	0.22	0.95	1.77	5.19	3.95	1.41	0.74	0.35	0.19	0.14
<b>Max</b>	0.25	0.37	0.47	6.79	12.4	25.7	14.1	3.40	1.85	0.76	0.36	0.24
(WY)	(1998)	(1985)	(1997)	(2006)	(1995)	(1997)	(1997)	(1996)	(1997)	(1997)	(1984)	(1984)
<b>Min</b>	0.07	0.10	0.11	0.09	0.16	0.30	0.34	0.30	0.17	0.10	0.07	0.05
(WY)	(2002)	(2002)	(2005)	(2001)	(1990)	(2005)	(1990)	(1992)	(1992)	(1994)	(2001)	(2001)

**12433542 BLUE CREEK ABOVE MIDNITE MINE DRAINAGE, NEAR WELLPINIT, WA—Continued****SUMMARY STATISTICS**

	<b>Calendar Year 2006</b>	<b>Water Year 2007</b>	<b>Water Years 1984 - 2007</b>	
<b>Annual total</b>	1,016.18	350.75		
<b>Annual mean</b>	2.78	0.96	1.23	
<b>Highest annual mean</b>			4.69	1997
<b>Lowest annual mean</b>			0.19	1994
<b>Highest daily mean</b>	16	Jan 17	7.2	Mar 24
<b>Lowest daily mean</b>	0.14	Sep 16	0.07	Sep 17
<b>Annual seven-day minimum</b>	0.16	Oct 8	0.07	Sep 22
<b>Annual runoff (ac-ft)</b>	2,020	696	890	
<b>Annual runoff (cfsm)</b>	0.464	0.160	0.205	
<b>Annual runoff (inches)</b>	6.30	2.17	2.78	
<b>10 percent exceeds</b>	8.5	2.6	3.3	
<b>50 percent exceeds</b>	0.56	0.29	0.26	
<b>90 percent exceeds</b>	0.19	0.14	0.12	

