

**BROOKFIELD RENEWABLE ENERGY GROUP
BROOKFIELD POWER PINEY & DEEP CREEK, LLC**

Deep Creek Hydroelectric Station

2012 Annual Report

**Maryland Department of the Environment
Water Appropriation and Use Permit No. GA1992S009(08)**

January 2013

Brookfield

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1.0 SUMMARY

Brookfield Renewable Power Piney & Deep Creek, LLC (Brookfield) holds a Water Appropriation and Use Permit (Permit), issued on June 17, 2011, (effective June 1, 2011), that provides for the continued operation of the Deep Creek Hydroelectric Project. Permit Condition 23 requires Brookfield to submit an annual report to the Maryland Department of the Environment (MDE), which includes data and information as specified in the Permit Conditions listed below.

- Lake level monitoring (Condition 15)
- Temperature monitoring (Condition 16)
- Minimum flow release monitoring (Condition 17)
- Dissolved oxygen (DO) monitoring (Condition 18)
- Releases unsuitable for whitewater recreation (Condition 19)
- Zebra mussel monitoring (Condition 21)

1.1 Lake Level Monitoring

Brookfield operates the Project according to the Operating Rules specified in the 2011 Permit such that water elevations in Deep Creek Lake are maintained within the Operating Rule Band except that excursions of up to 0.3 feet above the Operating Rule Band lasting not more than 21 days are allowed from May through October, and except in the event of unusual or emergency conditions as defined in the 2011 Permit. The Upper Rule Band (URB) and Lower Rule Band (LRB) are the highest and lowest desirable reservoir levels at the end of each month.

Pursuant to the 2011 Permit, Brookfield measures and records the water elevations in the Deep Creek Lake via a gage at the intake structure near the dam at approximately the same time each day.

1.1.1 End-of-Month Levels

Reservoir levels were above/below the URB at the end of the month as presented in Table 1. Daily lake level data for 2012 is presented in tabular and graphical format in Appendix A.

TABLE 1
LAKE LEVEL (IN FEET) ABOVE / BELOW URB

MONTH	FEET ABOVE (+) or BELOW (-) URB
January	+ 0.1
February	+ 0.4
March	+ 0.3
April	- 0.6
May	- 0.4
June	-1.1
July	-2.0
August	-2.1
September	-1.7
October	-2.2
November	-1.1
December	+0.4

1.1.2 Daily Levels

The following summary describes the daily variances of the URB and LRB, and Appendix A provides a graphical and tabular summary of these daily variances.

- The lake level exceeded the URB from January 27 to February 2, with exceedances ranging from 0.1 to 0.2 feet. Unit 1 scheduled cleaning and inspection outage started on January 9 and continued until January 20, when it was returned to service. Subsequently, the Unit 2 outage started on January 23 and continued until February 3, during which Unit 1 was operated.
- The lake level exceeded the URB again from February 7 to February 29, with exceedances ranging from 0.1 to 0.6 feet.
- The lake level exceeded the URB from March 1 to April 10, with exceedances ranging from 0.1 to 1.1 feet.
- The Deep Creek Lake area experienced below normal rainfall coupled with high summer temperatures in the summer of 2012, which were significant contributing factors to the low water levels at Deep Creek Lake. The lake level fell below the LRB from June 28 to July 26 and again on July 29, with levels ranging from 0.1 to 0.2 feet below the LRB. The lake level

was 0.1 feet below the LRB on August 13, 17, 19, 20, 23, 25, and 26. From August 28 to September 4 and again on September 15 and 16 the lake level was 0.1 feet below the LRB.

- The lake level was below the LRB from October 28 to November 1, with levels ranging from 0.1 to 0.4 below the LRB..
- The lake level exceeded the URB from December 23 to December 31, with exceedances ranging from 0.2 to 0.4 feet.

1.2 Temperature Monitoring

Brookfield monitored water temperature in the Youghiogheny River in accordance with the Deep Creek Station Water Temperature Enhancement Plan (approved June 8, 1996, revised September 2001 and January 2009).¹ The plan was designed to maintain river water temperatures below 25 degrees Celsius (°C) in the Youghiogheny River.

By letters dated July 6, August 6, and September 6, 2012, Brookfield provided the MDE with dates when temperature excursions occurred at the Sang Run temperature monitoring station, and an explanation for those excursions. The primary reason for these excursions was due to the inherent unpredictability of the model. This model attempts to predict future temperatures of the Youghiogheny River, based on air temperature readings, cloud cover factor, cloud cover forecast, river flow, and actual water temperature readings. Due to the multitude of parameters used in the predictions, inherent variability in the predicted temperatures exists.

Brookfield conducted 40 specific temperature enhancement releases (TERs) in 2012 as shown in Table 2 below. An error in the August report that was previously submitted to the MDE had an error in the number of reported TERs. As a correction, the temperature release noted on August 3 was actually a whitewater release.

² By letter dated January 9, 2009, MDE provided Brookfield a copy of the January 2009 revision to the Deep Creek Station Youghiogheny River Water Temperature Enhancement Plan, and notified Brookfield that MDE planned to formally adopt the revised protocol on February 1, 2009. By letter dated January 30, 2009, Brookfield notified MDE that Brookfield concurred with the Revised Temperature Enhancement Plan protocol and would incorporate these changes into the model for the 2009 temperature monitoring period.

In June, there was one temperature excursion $\geq 25^{\circ}\text{C}$ that occurred on the 13th. Excursions $\geq 25^{\circ}\text{C}$ occurred on July 1, 2, 3, 6, 7, 8, 9, 17, 18 and 29. Excursions in excess of 25°C occurred on August 4, 10 and 16.

Appendix B presents the Water Temperature Enhancement Plan data prediction sheets, the results of Sang Run temperature monitoring and any excursions during the period from June 1 through August 31, 2012.

TABLE 2
TEMPERATURE ENHANCEMENT PLAN RELEASE DATES

2012 DATES AND TIMES OF TEMPERATURE ENHANCEMENT PLAN RELEASES			
DATE	START TIME	STOP TIME	RIVER FLOW AT OAKLAND GAGE (CFS)
June 10	12:30	14:30	24
June 16	12:30	14:30	19
June 19	12:30	14:30	87
June 20	12:30	14:30	42
June 21	12:30	14:30	30
June 24	11:00	13:00	29
June 28	11:00	13:00	15
June 29	11:00	13:00	18
July 1	12:30	14:45	36
July 2	12:30	14:30	65
July 3	12:30	14:30	31
July 4	11:00	13:00	21
July 5	11:00	13:00	17
July 6	11:00	13:00	14
July 7	10:45	14:00	12
July 8	11:00	13:15	11
July 9	12:30	14:30	16
July 10	12:30	14:30	19
July 11	11:00	13:00	14
July 15	12:00	13:00	17
July 16	11:00	13:00	57
July 17	11:00	13:00	30
July 18	11:00	13:00	18
July 19	11:00	13:00	17
July 22	11:00	13:00	34
July 24	11:00	13:00	17

2012 DATES AND TIMES OF TEMPERATURE ENHANCEMENT PLAN RELEASES			
DATE	START TIME	STOP TIME	RIVER FLOW AT OAKLAND GAGE (CFS)
July 25	12:15	13:30	69
July 26	11:00	13:00	38
July 29	12:30	14:30	28
July 30	11:00	13:00	20
July 31	12:30	14:30	21
August 2	11:00	13:00	51
August 5	12:30	14:30	22
August 7	12:30	14:30	85
August 8	12:30	14:30	42
August 9	11:00	13:00	30
August 13	15:30	16:30	20
August 23	14:15	15:15	13
August 27	16:00	17:15	8.7
August 28	14:00	15:15	8.2

1.3 Minimum Flow Release Monitoring

Brookfield operated the flow bypass in accordance with the Deep Creek Station Flow Bypass Operation Protocol (May 1995, revised September 2001). The flow bypass protocol requires Brookfield to maintain a minimum flow of 40 cfs in the Youghiogeny River immediately downstream of the tailrace. Starting January 1 and continuing through July 31, Brookfield monitored the river flows at the Oakland gage (Gage No. 03075500). Starting on August 1, Brookfield monitored river flows at the new Hoyes Run (Gage No. 03076100). As required by the protocol, when calculated flows downstream of the tailrace are below 40 cfs, Brookfield may be required to open a bypass valve to release enough water to maintain 40 cfs.

Brookfield provided bypass flow to the Youghiogeny River below the project tailrace on 51 days. The table in Appendix C summarizes flow bypass data for June through September 2012, when flows in the Youghiogeny River were less than 26 cfs. Valve openings (see Appendix C) were determined from Table 3 of the protocol and were based on station operating status.

1.4 Dissolved Oxygen Monitoring

Brookfield operated the dissolved oxygen (DO) enhancement weir during 2012 in accordance with the Dissolved Oxygen Enhancement Operations and Monitoring Protocol approved by the MDE on January 6, 1995. The daily average was 5.56 mg/L. All data obtained from DO monitoring in 2012 are included in Appendix D.

- In June, instantaneous DO measurements ranged from a low of 6.03 mg/L on June 30 to a high of 9.66 mg/L on June 1.
- In July, instantaneous DO measurements ranged from a low of 3.04 mg/L on July 28 to a high of 7.33 mg/L on July 7.
- In August, instantaneous DO measurements ranged from a low of 2.21 mg/L on August 25 to a high of 6.61 mg/L on August 4.
- In September, instantaneous DO measurements ranged from a low of 1.79 mg/L on September 28 to a high of 7.63 mg/L on September 28. 1.5 Releases Unsuitable for Whitewater Recreation

1.5 Whitewater Releases

Permit Condition 19 outlines several operating rules designed to enhance whitewater boating opportunities in the Youghiogheny River.

Permit Condition 19.A provides a standard whitewater release (WWR) schedule, a special WWR schedule, and a provision that allows Brookfield to combine temperature enhancement releases with scheduled WWR. These conditions apply from April 15 through October 15, annually.

Permit Condition 19.B provides additional operating rules that place conditions on the operations of the Deep Creek Project, based on flows at the Friendsville gage and water levels at the Deep Creek Lake gage.

More specifically, Permit Condition 19.B.V allows Brookfield to employ either a “3rd Hour Regulation” or an “All Hour Regulation” approach for plant operations, in addition to the previously referenced conditions. Additional details of these permit conditions can be found in Appendix E.

There were no releases unsuitable for whitewater recreation during 2012.

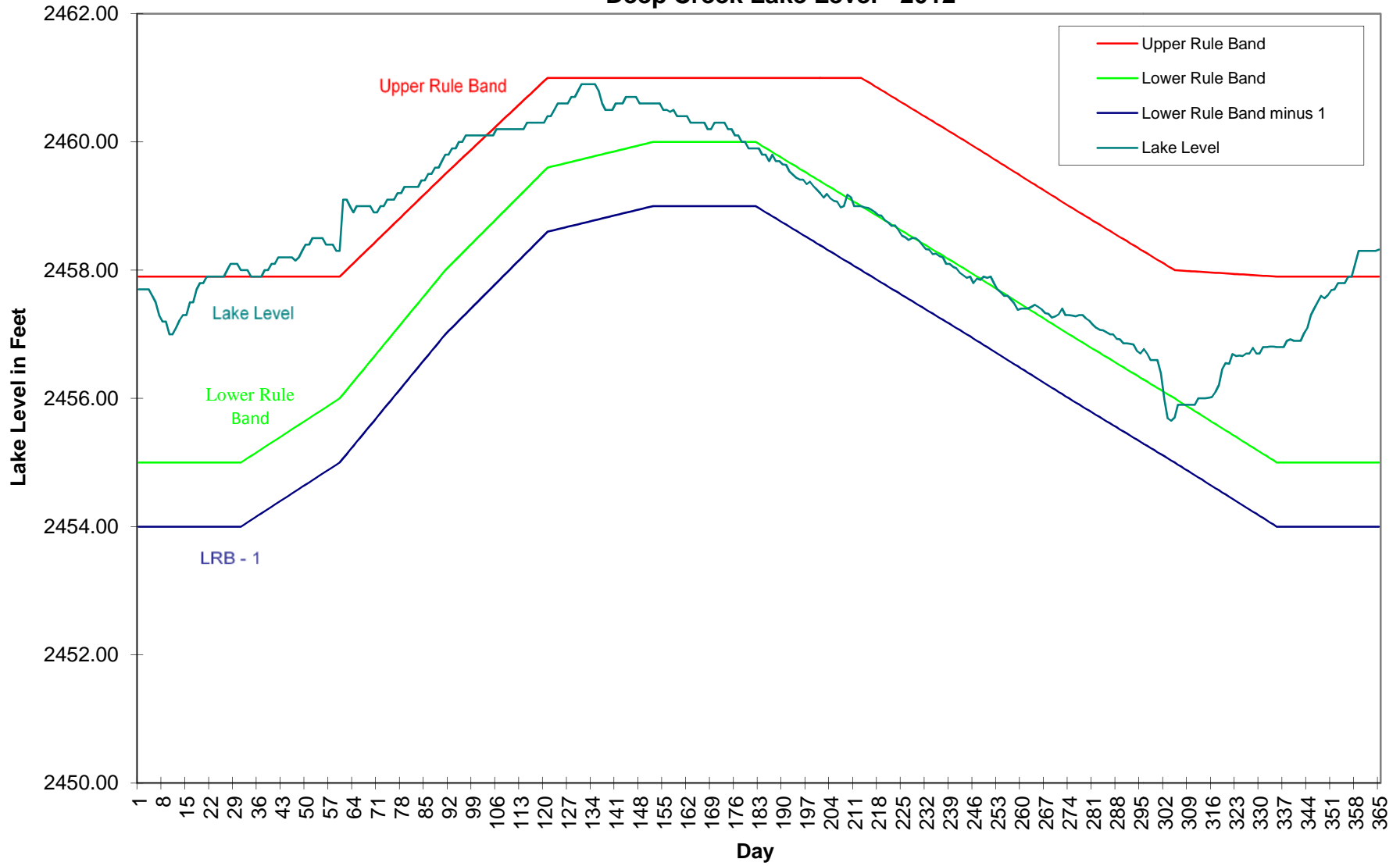
1.6 Zebra Mussel Monitoring

Artificial substrates placed at the Project intake area during 2012 showed no signs of zebra mussel infestation. Appendix F contains the 2012 Zebra Mussel Monitoring Report data sheets.

APPENDIX A

**DEEP CREEK LAKE LEVEL GRAPH AND
DEEP CREEK DAILY LAKE LEVEL DATA TABLES**

Deep Creek Lake Level - 2012



Deep Creek Daily Lake Level 2012

Month	Day	Lake Level (feet msl)	Rainfall (inches)	Month	Day	Lake Level (feet msl)	Rainfall (inches)	Month	Day	Lake Level (feet msl)	Rainfall (inches)
Jan	1	2457.7	0.10	Feb	1	2458.0	0.04	Mar	1	2459.1	0.00
	2	2457.7	0.32		2	2458.0	0.00		2	2459.1	0.53
	3	2457.7	0.12		3	2457.9	0.00		3	2459.0	0.00
	4	2457.7	0.00		4	2457.9	0.43		4	2458.9	0.03
	5	2457.6	0.00		5	2457.9	0.00		5	2459.0	0.04
	6	2457.5	0.00		6	2457.9	0.00		6	2459.0	0.00
	7	2457.3	0.00		7	2458.0	0.00		7	2459.0	0.00
	8	2457.2	0.00		8	2458.0	0.17		8	2459.0	0.50
	9	2457.2	0.00		9	2458.1	0.00		9	2459.0	0.00
	10	2457.0	0.00		10	2458.1	0.17		10	2458.9	0.00
	11	2457.0	0.80		11	2458.2	0.30		11	2458.9	0.00
	12	2457.1	0.38		12	2458.2	0.03		12	2459.0	0.39
	13	2457.2	0.13		13	2458.2	0.00		13	2459.0	0.00
	14	2457.3	0.03		14	2458.2	0.02		14	2459.1	0.00
	15	2457.3	0.00		15	2458.2	0.00		15	2459.1	0.04
	16	2457.5	0.51		16	2458.1	0.45		16	2459.1	0.00
	17	2457.5	0.81		17	2458.2	0.00		17	2459.2	0.00
	18	2457.7	0.00		18	2458.3	0.00		18	2459.2	0.25
	19	2457.8	0.21		19	2458.4	0.00		19	2459.3	0.15
	20	2457.8	0.50		20	2458.4	0.00		20	2459.3	0.00
	21	2457.9	0.00		21	2458.5	0.00		21	2459.3	0.00
	22	2457.9	0.00		22	2458.5	0.07		22	2459.3	0.00
	23	2457.9	0.20		23	2458.5	0.56		23	2459.3	0.70
	24	2457.9	0.00		24	2458.5	0.03		24	2459.4	0.22
	25	2457.9	0.00		25	2458.4	0.02		25	2459.4	0.02
	26	2457.9	0.94		26	2458.4	0.00		26	2459.5	0.00
	27	2458.0	0.38		27	2458.4	0.00		27	2459.5	0.00
	28	2458.1	0.04		28	2458.3	0.05		28	2459.6	0.06
	29	2458.1	0.07		29	2458.3	2.06		29	2459.6	0.00
	30	2458.0	0.00						30	2459.7	0.71
	31	2458.0	0.11						31	2459.8	0.00
Total			5.65				4.40				3.64

Deep Creek Daily Lake Level 2012

Month	Day	Lake Level (feet msl)	Rainfall (inches)	Month	Day	Lake Level (feet msl)	Rainfall (inches)	Month	Day	Lake Level (feet msl)	Rainfall (inches)
Apr	1	2459.8	0.23	May	1	2460.4	0.42	Jun	1	2460.6	0.20
	2	2459.9	0.00		2	2460.5	0.60		2	2460.6	0.00
	3	2459.9	0.00		3	2460.6	0.00		3	2460.5	0.00
	4	2460.0	0.00		4	2460.6	0.03		4	2460.5	0.00
	5	2460.0	0.00		5	2460.6	0.08		5	2460.5	0.00
	6	2460.1	0.00		6	2460.6	0.00		6	2460.5	0.00
	7	2460.1	0.00		7	2460.7	0.10		7	2460.4	0.26
	8	2460.1	0.00		8	2460.7	0.66		8	2460.4	0.00
	9	2460.1	0.15		9	2460.8	0.12		9	2460.4	0.00
	10	2460.1	0.00		10	2460.9	0.00		10	2460.4	0.00
	11	2460.1	0.18		11	2460.9	0.00		11	2460.3	0.21
	12	2460.1	0.00		12	2460.9	0.13		12	2460.3	0.40
	13	2460.1	0.00		13	2460.9	0.40		13	2460.3	0.00
	14	2460.1	0.08		14	2460.9	0.70		14	2460.3	0.00
	15	2460.2	0.00		15	2460.8	0.00		15	2460.3	0.00
	16	2460.2	0.00		16	2460.6	0.00		16	2460.2	0.00
	17	2460.2	0.00		17	2460.5	0.00		17	2460.2	1.69
	18	2460.2	0.04		18	2460.5	0.00		18	2460.3	0.08
	19	2460.2	0.00		19	2460.5	0.00		19	2460.3	0.00
	20	2460.2	0.00		20	2460.6	0.00		20	2460.3	0.00
	21	2460.2	0.06		21	2460.6	0.03		21	2460.3	0.03
	22	2460.2	0.37		22	2460.6	0.23		22	2460.2	0.30
	23	2460.2	0.52		23	2460.7	0.13		23	2460.2	0.00
	24	2460.3	0.00		24	2460.7	0.31		24	2460.1	0.00
	25	2460.3	0.04		25	2460.7	0.00		25	2460.1	0.03
	26	2460.3	0.16		26	2460.7	0.00		26	2460.0	0.00
	27	2460.3	0.00		27	2460.6	0.00		27	2460.0	0.00
	28	2460.3	0.16		28	2460.6	0.00		28	2459.9	0.00
	29	2460.3	0.00		29	2460.6	0.30		29	2459.9	0.90
	30	2460.4	0.36		30	2460.6	0.00		30	2459.9	0.06
					31	2460.6	0.00				
Total			2.35				4.24				4.16

Deep Creek Daily Lake Level 2012

Month	Day	Lake Level (feet msl)	Rainfall (inches)	Month	Day	Lake Level (feet msl)	Rainfall (inches)	Month	Day	Lake Level (feet msl)	Rainfall (inches)
Jul	1	2459.9	0.00	Aug	1	2459.0	0.00	Sep	1	2457.9	0.30
	2	2459.8	0.00		2	2459.0	0.00		2	2457.8	0.20
	3	2459.8	0.41		3	2458.9	0.18		3	2457.8	0.00
	4	2459.7	0.20		4	2458.9	0.07		4	2457.8	0.35
	5	2459.8	0.00		5	2458.8	0.63		5	2457.9	0.00
	6	2459.7	0.00		6	2458.8	0.00		6	2457.9	0.00
	7	2459.7	0.00		7	2458.8	0.00		7	2457.9	0.00
	8	2459.6	0.40		8	2458.7	0.00		8	2457.8	0.38
	9	2459.6	0.00		9	2458.7	0.32		9	2457.7	0.00
	10	2459.5	0.00		10	2458.7	0.02		10	2457.7	0.00
	11	2459.5	0.00		11	2458.6	0.00		11	2457.6	0.00
	12	2459.4	0.00		12	2458.6	0.00		12	2457.6	0.00
	13	2459.4	0.27		13	2458.5	0.00		13	2457.6	0.00
	14	2459.4	0.17		14	2458.5	0.00		14	2457.5	0.02
	15	2459.3	0.20		15	2458.5	0.00		15	2457.4	0.00
	16	2459.4	0.00		16	2458.5	0.00		16	2457.4	0.00
	17	2459.3	0.00		17	2458.4	0.25		17	2457.4	1.03
	18	2459.3	0.10		18	2458.4	0.00		18	2457.5	0.90
	19	2459.2	0.70		19	2458.3	0.27		19	2457.5	0.00
	20	2459.2	0.07		20	2458.3	0.11		20	2457.5	0.00
	21	2459.2	0.00		21	2458.3	0.00		21	2457.5	0.00
	22	2459.1	0.00		22	2458.3	0.00		22	2457.4	0.00
	23	2459.1	0.00		23	2458.2	0.00		23	2457.3	0.00
	24	2459.0	0.00		24	2458.2	0.00		24	2457.3	0.00
	25	2459.0	0.35		25	2458.1	0.00		25	2457.3	0.05
	26	2459.0	1.74		26	2458.1	0.00		26	2457.3	0.38
	27	2459.1	0.14		27	2458.1	0.04		27	2457.3	0.74
	28	2459.1	0.00		28	2458.0	0.00		28	2457.4	0.00
	29	2459.0	0.00		29	2458.0	0.00		29	2457.3	0.00
	30	2459.0	0.00		30	2457.9	0.00		30	2457.3	0.00
	31	2459.0	0.50		31	2457.9	0.02				
Total			5.25				1.91				4.35

Deep Creek Daily Lake Level 2012

Month	Day	Lake Level (feet msl)	Rainfall (inches)	Month	Day	Lake Level (feet msl)	Rainfall (inches)	Month	Day	Lake Level (feet msl)	Rainfall (inches)
Oct	1	2457.3	0.19	Nov	1	2455.8	0.00	Dec	1	2456.8	0.00
	2	2457.3	0.28		2	2455.9	0.00		2	2456.8	0.35
	3	2457.3	0.00		3	2455.9	0.00		3	2456.9	0.00
	4	2457.3	0.00		4	2455.9	0.00		4	2456.9	0.14
	5	2457.3	0.00		5	2455.9	0.00		5	2456.9	0.00
	6	2457.2	0.00		6	2455.9	0.00		6	2456.9	0.15
	7	2457.1	0.25		7	2456.0	0.00		7	2456.9	0.45
	8	2457.1	0.18		8	2456.0	0.00		8	2457.0	0.50
	9	2457.1	0.00		9	2456.0	0.00		9	2457.1	0.50
	10	2457.1	0.00		10	2456.0	0.00		10	2457.3	0.41
	11	2457.1	0.00		11	2456.0	0.00		11	2457.4	0.02
	12	2457.0	0.00		12	2456.1	0.15		12	2457.5	0.00
	13	2457.0	0.00		13	2456.2	0.00		13	2457.6	0.00
	14	2457.0	0.10		14	2456.5	0.00		14	2457.6	0.00
	15	2457.0	0.20		15	2456.5	0.00		15	2457.6	0.00
	16	2456.9	0.00		16	2456.5	0.00		16	2457.6	0.13
	17	2456.9	0.00		17	2456.6	0.00		17	2457.7	0.68
	18	2456.9	0.48		18	2456.7	0.00		18	2457.8	0.11
	19	2456.8	0.05		19	2456.7	0.00		19	2457.8	0.00
	20	2456.7	0.15		20	2456.7	0.00		20	2457.8	1.13
	21	2456.7	0.00		21	2456.7	0.00		21	2457.9	0.55
	22	2456.7	0.02		22	2456.7	0.00		22	2457.9	0.03
	23	2456.7	0.00		23	2456.7	0.02		23	2458.1	0.00
	24	2456.6	0.00		24	2456.7	0.03		24	2458.3	0.21
	25	2456.6	0.00		25	2456.7	0.00		25	2458.3	0.00
	26	2456.6	0.00		26	2456.8	0.33		26	2458.3	0.80
	27	2456.4	0.04		27	2456.8	0.03		27	2458.3	0.06
	28	2456.0	0.57		28	2456.8	0.00		28	2458.3	0.20
	29	2455.7	*		29	2456.8	0.00		29	2458.3	0.41
	30	2455.8	*		30	2456.8	0.00		30	2458.3	0.03
	31	2455.8	4.61						31	2458.3	0.13
Total			7.12				0.56				6.99
										Year Total	50.62

* Note: There were no rainfall observations made on October 29 and 30 due to the facility being inaccessible because of Hurricane Sandy conditions. The October 31 reading is cumulative for the 29, 30 and 31.

**SUMMARY OF DAILY VARIANCES OF THE
UPPER AND LOWER RULE BANDS - 2012**

SUMMARY OF DAILY VARIANCES OF THE UPPER AND LOWER RULE BANDS - 2012

Date	Reservoir Level (feet)	Upper Rule Band (feet)	Lower Rule Band (feet)	Δ (feet)
1/27/2012	2458.0	2457.9	2455.0	0.1
1/28/2012	2458.1	2457.9	2455.0	0.2
1/29/2012	2458.1	2457.9	2455.0	0.2
1/30/2012	2458.0	2457.9	2455.0	0.1
1/31/2012	2458.0	2457.9	2455.0	0.1
2/1/2012	2458.0	2457.9	2455.0	0.1
2/2/2012	2458.0	2457.9	2455.1	0.1
2/7/2012	2458.0	2457.9	2455.2	0.1
2/8/2012	2458.0	2457.9	2455.3	0.1
2/9/2012	2458.1	2457.9	2455.3	0.2
2/10/2012	2458.1	2457.9	2455.3	0.2
2/11/2012	2458.2	2457.9	2455.4	0.3
2/12/2012	2458.2	2457.9	2455.4	0.3
2/13/2012	2458.2	2457.9	2455.4	0.3
2/14/2012	2458.2	2457.9	2455.5	0.3
2/15/2012	2458.2	2457.9	2455.5	0.3
2/16/2012	2458.1	2457.9	2455.6	0.2
2/17/2012	2458.2	2457.9	2455.6	0.3
2/18/2012	2458.3	2457.9	2455.6	0.4
2/19/2012	2458.4	2457.9	2455.7	0.5
2/20/2012	2458.4	2457.9	2455.7	0.5
2/21/2012	2458.5	2457.9	2455.7	0.6
2/22/2012	2458.5	2457.9	2455.8	0.6
2/23/2012	2458.5	2457.9	2455.8	0.6
2/24/2012	2458.5	2457.9	2455.8	0.6
2/25/2012	2458.4	2457.9	2455.9	0.5
2/26/2012	2458.4	2457.9	2455.9	0.5
2/27/2012	2458.4	2457.9	2455.9	0.5
2/28/2012	2458.3	2457.9	2456.0	0.4
2/29/2012	2458.3	2457.9	2456.0	0.4
3/1/2012	2459.1	2458.0	2456.1	1.1
3/2/2012	2459.1	2458.0	2456.1	1.1
3/3/2012	2459.0	2458.1	2456.2	0.9
3/4/2012	2458.9	2458.1	2456.3	0.8
3/5/2012	2459.0	2458.2	2456.3	0.8
3/6/2012	2459.0	2458.2	2456.4	0.8
3/7/2012	2459.0	2458.3	2456.5	0.7
3/8/2012	2459.0	2458.3	2456.5	0.7
3/9/2012	2459.0	2458.4	2456.6	0.6
3/10/2012	2458.9	2458.4	2456.6	0.5
3/11/2012	2458.9	2458.5	2456.7	0.4
3/12/2012	2459.0	2458.5	2456.8	0.5
3/13/2012	2459.0	2458.6	2456.8	0.4
3/14/2012	2459.1	2458.6	2456.9	0.5
3/15/2012	2459.1	2458.7	2457.0	0.4
3/16/2012	2459.1	2458.7	2457.0	0.4
3/17/2012	2459.2	2458.8	2457.1	0.4
3/18/2012	2459.2	2458.8	2457.2	0.4
3/19/2012	2459.3	2458.9	2457.2	0.4

Date	Reservoir Level (feet)	Upper Rule Band (feet)	Lower Rule Band (feet)	Δ (feet)
3/20/2012	2459.3	2458.9	2457.3	0.4
3/21/2012	2459.3	2459.0	2457.4	0.3
3/22/2012	2459.3	2459.0	2457.4	0.3
3/23/2012	2459.3	2459.1	2457.5	0.2
3/24/2012	2459.4	2459.1	2457.5	0.3
3/25/2012	2459.4	2459.2	2457.6	0.2
3/26/2012	2459.5	2459.2	2457.7	0.3
3/27/2012	2459.5	2459.3	2457.7	0.2
3/28/2012	2459.6	2459.3	2457.8	0.3
3/29/2012	2459.6	2459.4	2457.9	0.2
3/30/2012	2459.7	2459.4	2457.9	0.3
3/31/2012	2459.8	2459.5	2458.0	0.3
4/1/2012	2459.8	2459.6	2458.1	0.3
4/2/2012	2459.9	2459.6	2458.1	0.3
4/3/2012	2459.9	2459.7	2458.2	0.2
4/4/2012	2460.0	2459.7	2458.2	0.3
4/5/2012	2460.0	2459.8	2458.3	0.3
4/6/2012	2460.1	2459.8	2458.3	0.3
4/7/2012	2460.1	2459.9	2458.4	0.2
4/8/2012	2460.1	2459.9	2458.4	0.2
4/9/2012	2460.1	2460.0	2458.5	0.1
4/10/2012	2460.1	2460.0	2458.5	0.1
6/28/2012	2459.9	2461.0	2460.0	-0.1
6/29/2012	2459.9	2461.0	2460.0	-0.1
6/30/2012	2459.9	2461.0	2460.0	-0.1
7/1/2012	2459.9	2461.0	2460.0	-0.1
7/2/2012	2459.8	2461.0	2459.9	-0.1
7/3/2012	2459.8	2461.0	2459.9	-0.1
7/4/2012	2459.7	2461.0	2459.9	-0.2
7/6/2012	2459.7	2461.0	2459.8	-0.1
7/7/2012	2459.7	2461.0	2459.8	-0.1
7/8/2012	2459.6	2461.0	2459.7	-0.1
7/9/2012	2459.6	2461.0	2459.7	-0.1
7/10/2012	2459.5	2461.0	2459.7	-0.2
7/11/2012	2459.5	2461.0	2459.6	-0.1
7/12/2012	2459.4	2461.0	2459.6	-0.2
7/13/2012	2459.4	2461.0	2459.6	-0.2
7/14/2012	2459.4	2461.0	2459.5	-0.1
7/15/2012	2459.3	2461.0	2459.5	-0.2
7/16/2012	2459.4	2461.0	2459.5	-0.1
7/17/2012	2459.3	2461.0	2459.5	-0.2
7/18/2012	2459.3	2461.0	2459.4	-0.1
7/19/2012	2459.2	2461.0	2459.4	-0.2
7/20/2012	2459.2	2461.0	2459.4	-0.2
7/21/2012	2459.2	2461.0	2459.3	-0.1
7/22/2012	2459.1	2461.0	2459.3	-0.2
7/23/2012	2459.1	2461.0	2459.3	-0.2
7/24/2012	2459.0	2461.0	2459.2	-0.2
7/25/2012	2459.0	2461.0	2459.2	-0.2
7/26/2012	2459.0	2461.0	2459.2	-0.2

Date	Reservoir Level (feet)	Upper Rule Band (feet)	Lower Rule Band (feet)	Δ (feet)
7/29/2012	2459.0	2461.0	2459.1	-0.1
8/13/2012	2458.5	2460.6	2458.6	-0.1
8/17/2012	2458.4	2460.5	2458.5	-0.1
8/19/2012	2458.3	2460.4	2458.4	-0.1
8/20/2012	2458.3	2460.4	2458.4	-0.1
8/23/2012	2458.2	2460.3	2458.3	-0.1
8/25/2012	2458.1	2460.2	2458.2	-0.1
8/26/2012	2458.1	2460.2	2458.2	-0.1
8/28/2012	2458.0	2460.1	2458.1	-0.1
8/29/2012	2458.0	2460.1	2458.1	-0.1
8/30/2012	2457.9	2460.0	2458.0	-0.1
8/31/2012	2457.9	2460.0	2458.0	-0.1
9/1/2012	2457.9	2460.0	2458.0	-0.1
9/2/2012	2457.8	2459.9	2457.9	-0.1
9/3/2012	2457.8	2459.9	2457.9	-0.1
9/4/2012	2457.8	2459.9	2457.9	-0.1
9/15/2012	2457.4	2459.5	2457.5	-0.1
9/16/2012	2457.4	2459.5	2457.5	-0.1
10/28/2012	2456.0	2458.1	2456.1	-0.1
10/29/2012	2455.7	2458.1	2456.1	-0.4
10/30/2012	2455.8	2458.0	2456.0	-0.2
10/31/2012	2455.8	2458.0	2456.0	-0.2
11/1/2012	2455.8	2458.0	2456.0	-0.2
12/23/2012	2458.1	2457.9	2455.0	0.2
12/24/2012	2458.3	2457.9	2455.0	0.4
12/25/2012	2458.3	2457.9	2455.0	0.4
12/26/2012	2458.3	2457.9	2455.0	0.4
12/27/2012	2458.3	2457.9	2455.0	0.4
12/28/2012	2458.3	2457.9	2455.0	0.4
12/29/2012	2458.3	2457.9	2455.0	0.4
12/30/2012	2458.3	2457.9	2455.0	0.4
12/31/2012	2458.3	2457.9	2455.0	0.4

APPENDIX B

DAILY RIVER WATER TEMPERATURES AT SANG RUN

**TEMPERATURE ENHANCEMENT PLAN SANG RUN
TEMPERATURE EXCURSIONS**

TEMPERATURE ENHANCEMENT PLAN DAILY SHEETS

Water temperature is measured from a temperature probe seasonally installed and maintained by Brookfield in the Youghiogheny River at the Sang Run Bridge. The instrument records water temperature at 10-minute intervals, has a monitoring accuracy of 0.1°C, and is calibrated in accordance with the manufacturer's instructions. Data is retrieved via telephone modem from the instrument by a Brookfield Compliance Specialist located at the Deep Creek Hydroelectric Project.

Days when temperatures exceeded 25°C and days when temperature enhancement releases were made are summarized in the following tables. Daily Temperature Enhancement Plan sheets for each of these dates are also included.

DAILY RIVER WATER TEMPERATURES AT SANG RUN

Station Name

Sangrun

6/1/2012	0:00:00	20.01
6/1/2012	0:10:00	19.93
6/1/2012	0:20:00	19.84
6/1/2012	0:30:00	19.75
6/1/2012	0:40:00	19.68
6/1/2012	0:50:00	19.60
6/1/2012	1:00:00	19.53
6/1/2012	1:10:00	19.46
6/1/2012	1:20:00	19.39
6/1/2012	1:30:00	19.33
6/1/2012	1:40:00	19.26
6/1/2012	1:50:00	19.20
6/1/2012	2:00:00	19.13
6/1/2012	2:10:00	19.08
6/1/2012	2:20:00	19.03
6/1/2012	2:30:00	18.97
6/1/2012	2:40:00	18.92
6/1/2012	2:50:00	18.86
6/1/2012	3:00:00	18.81
6/1/2012	3:10:00	18.75
6/1/2012	3:20:00	18.70
6/1/2012	3:30:00	18.65
6/1/2012	3:40:00	18.61
6/1/2012	3:50:00	18.56
6/1/2012	4:00:00	18.53
6/1/2012	4:10:00	18.49
6/1/2012	4:20:00	18.46
6/1/2012	4:30:00	18.42
6/1/2012	4:40:00	18.39
6/1/2012	4:50:00	18.34
6/1/2012	5:00:00	18.30
6/1/2012	5:10:00	18.27
6/1/2012	5:20:00	18.24
6/1/2012	5:30:00	18.20
6/1/2012	5:40:00	18.16
6/1/2012	5:50:00	18.14
6/1/2012	6:00:00	18.13
6/1/2012	6:10:00	18.10
6/1/2012	6:20:00	18.08
6/1/2012	6:30:00	18.07
6/1/2012	6:40:00	18.03
6/1/2012	6:50:00	18.01
6/1/2012	7:00:00	17.99
6/1/2012	7:10:00	17.97
6/1/2012	7:20:00	17.95

6/1/2012	7:30:00	17.95
6/1/2012	7:40:00	17.95
6/1/2012	7:50:00	17.95
6/1/2012	8:00:00	17.96
6/1/2012	8:10:00	17.98
6/1/2012	8:20:00	17.98
6/1/2012	8:30:00	17.99
6/1/2012	8:40:00	18.01
6/1/2012	8:50:00	18.05
6/1/2012	9:00:00	18.10
6/1/2012	9:10:00	18.15
6/1/2012	9:20:00	18.20
6/1/2012	9:30:00	18.26
6/1/2012	9:40:00	18.29
6/1/2012	9:50:00	18.32
6/1/2012	10:00:00	18.38
6/1/2012	10:10:00	18.45
6/1/2012	10:20:00	18.56
6/1/2012	10:30:00	18.66
6/1/2012	10:40:00	18.73
6/1/2012	10:50:00	18.83
6/1/2012	11:00:00	18.90
6/1/2012	11:10:00	18.88
6/1/2012	11:20:00	18.90
6/1/2012	11:30:00	18.91
6/1/2012	11:40:00	18.94
6/1/2012	11:50:00	18.94
6/1/2012	12:00:00	18.97
6/1/2012	12:10:00	19.02
6/1/2012	12:20:00	19.07
6/1/2012	12:30:00	19.11
6/1/2012	12:40:00	19.14
6/1/2012	12:50:00	19.13
6/1/2012	13:00:00	19.17
6/1/2012	13:10:00	19.00
6/1/2012	13:20:00	18.27
6/1/2012	13:30:00	16.51
6/1/2012	13:40:00	16.14
6/1/2012	13:50:00	15.87
6/1/2012	14:00:00	15.72
6/1/2012	14:10:00	15.66
6/1/2012	14:20:00	15.63
6/1/2012	14:30:00	15.62
6/1/2012	14:40:00	15.64
6/1/2012	14:50:00	15.67
6/1/2012	15:00:00	15.72
6/1/2012	15:10:00	15.75

6/1/2012	15:20:00	15.78
6/1/2012	15:30:00	15.81
6/1/2012	15:40:00	15.83
6/1/2012	15:50:00	15.92
6/1/2012	16:00:00	16.01
6/1/2012	16:10:00	16.10
6/1/2012	16:20:00	16.19
6/1/2012	16:30:00	16.26
6/1/2012	16:40:00	16.34
6/1/2012	16:50:00	16.41
6/1/2012	17:00:00	16.46
6/1/2012	17:10:00	16.48
6/1/2012	17:20:00	16.53
6/1/2012	17:30:00	16.61
6/1/2012	17:40:00	16.66
6/1/2012	17:50:00	16.72
6/1/2012	18:00:00	16.80
6/1/2012	18:10:00	16.84
6/1/2012	18:20:00	16.86
6/1/2012	18:30:00	16.87
6/1/2012	18:40:00	16.89
6/1/2012	18:50:00	16.93
6/1/2012	19:00:00	16.96
6/1/2012	19:10:00	17.00
6/1/2012	19:20:00	17.01
6/1/2012	19:30:00	17.02
6/1/2012	19:40:00	17.04
6/1/2012	19:50:00	17.05
6/1/2012	20:00:00	17.08
6/1/2012	20:10:00	17.12
6/1/2012	20:20:00	17.16
6/1/2012	20:30:00	17.22
6/1/2012	20:40:00	17.27
6/1/2012	20:50:00	17.34
6/1/2012	21:00:00	17.42
6/1/2012	21:10:00	17.50
6/1/2012	21:20:00	17.55
6/1/2012	21:30:00	17.57
6/1/2012	21:40:00	17.61
6/1/2012	21:50:00	17.65
6/1/2012	22:00:00	17.67
6/1/2012	22:10:00	17.70
6/1/2012	22:20:00	17.69
6/1/2012	22:30:00	17.67
6/1/2012	22:40:00	17.65
6/1/2012	22:50:00	17.63
6/1/2012	23:00:00	17.60

6/1/2012	23:10:00	17.58
6/1/2012	23:20:00	17.52
6/1/2012	23:30:00	17.48
6/1/2012	23:40:00	17.43
6/1/2012	23:50:00	17.36
6/2/2012	0:00:00	17.30
6/2/2012	0:10:00	17.29
6/2/2012	0:20:00	17.27
6/2/2012	0:30:00	17.24
6/2/2012	0:40:00	17.19
6/2/2012	0:50:00	17.16
6/2/2012	1:00:00	17.10
6/2/2012	1:10:00	17.06
6/2/2012	1:20:00	17.02
6/2/2012	1:30:00	17.00
6/2/2012	1:40:00	16.96
6/2/2012	1:50:00	16.91
6/2/2012	2:00:00	16.86
6/2/2012	2:10:00	16.82
6/2/2012	2:20:00	16.78
6/2/2012	2:30:00	16.74
6/2/2012	2:40:00	16.71
6/2/2012	2:50:00	16.68
6/2/2012	3:00:00	16.65
6/2/2012	3:10:00	16.63
6/2/2012	3:20:00	16.60
6/2/2012	3:30:00	16.58
6/2/2012	3:40:00	16.55
6/2/2012	3:50:00	16.51
6/2/2012	4:00:00	16.48
6/2/2012	4:10:00	16.44
6/2/2012	4:20:00	16.41
6/2/2012	4:30:00	16.37
6/2/2012	4:40:00	16.35
6/2/2012	4:50:00	16.29
6/2/2012	5:00:00	16.26
6/2/2012	5:10:00	16.24
6/2/2012	5:20:00	16.21
6/2/2012	5:30:00	16.17
6/2/2012	5:40:00	16.13
6/2/2012	5:50:00	16.10
6/2/2012	6:00:00	16.05
6/2/2012	6:10:00	16.02
6/2/2012	6:20:00	15.98
6/2/2012	6:30:00	15.95
6/2/2012	6:40:00	15.92
6/2/2012	6:50:00	15.89

6/2/2012	7:00:00	15.87
6/2/2012	7:10:00	15.84
6/2/2012	7:20:00	15.80
6/2/2012	7:30:00	15.81
6/2/2012	7:40:00	15.78
6/2/2012	7:50:00	15.75
6/2/2012	8:00:00	15.73
6/2/2012	8:10:00	15.72
6/2/2012	8:20:00	15.74
6/2/2012	8:30:00	15.74
6/2/2012	8:40:00	15.74
6/2/2012	8:50:00	15.81
6/2/2012	9:00:00	15.89
6/2/2012	9:10:00	15.96
6/2/2012	9:20:00	16.06
6/2/2012	9:30:00	16.12
6/2/2012	9:40:00	16.23
6/2/2012	9:50:00	16.35
6/2/2012	10:00:00	16.48
6/2/2012	10:10:00	16.58
6/2/2012	10:20:00	16.66
6/2/2012	10:30:00	16.73
6/2/2012	10:40:00	16.84
6/2/2012	10:50:00	16.92
6/2/2012	11:00:00	17.02
6/2/2012	11:10:00	17.15
6/2/2012	11:20:00	17.22
6/2/2012	11:30:00	17.31
6/2/2012	11:40:00	17.38
6/2/2012	11:50:00	17.51
6/2/2012	12:00:00	17.53
6/2/2012	12:10:00	17.70
6/2/2012	12:20:00	17.93
6/2/2012	12:30:00	18.01
6/2/2012	12:40:00	18.11
6/2/2012	12:50:00	18.14
6/2/2012	13:00:00	18.31
6/2/2012	13:10:00	18.47
6/2/2012	13:20:00	18.65
6/2/2012	13:30:00	18.72
6/2/2012	13:40:00	18.76
6/2/2012	13:50:00	18.84
6/2/2012	14:00:00	18.96
6/2/2012	14:10:00	18.92
6/2/2012	14:20:00	19.21
6/2/2012	14:30:00	19.10
6/2/2012	14:40:00	19.05

6/2/2012	14:50:00	19.10
6/2/2012	15:00:00	19.08
6/2/2012	15:10:00	19.46
6/2/2012	15:20:00	19.72
6/2/2012	15:30:00	19.61
6/2/2012	15:40:00	19.75
6/2/2012	15:50:00	19.64
6/2/2012	16:00:00	19.97
6/2/2012	16:10:00	19.90
6/2/2012	16:20:00	20.09
6/2/2012	16:30:00	20.30
6/2/2012	16:40:00	20.32
6/2/2012	16:50:00	20.38
6/2/2012	17:00:00	20.47
6/2/2012	17:10:00	20.58
6/2/2012	17:20:00	20.55
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6/29/2012	8:20:00	19.24
6/29/2012	8:30:00	19.28
6/29/2012	8:40:00	19.32
6/29/2012	8:50:00	19.38
6/29/2012	9:00:00	19.48

6/29/2012	9:10:00	19.61
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6/29/2012	10:20:00	20.67
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6/29/2012	10:40:00	21.05
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6/29/2012	11:10:00	21.68
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6/29/2012	13:10:00	23.14
6/29/2012	13:20:00	22.41
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6/29/2012	13:40:00	19.77
6/29/2012	13:50:00	19.55
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6/29/2012	15:00:00	19.92
6/29/2012	15:10:00	20.12
6/29/2012	15:20:00	20.37
6/29/2012	15:30:00	20.62
6/29/2012	15:40:00	20.87
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6/29/2012	16:00:00	21.31
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6/29/2012	16:20:00	21.80
6/29/2012	16:30:00	22.03
6/29/2012	16:40:00	22.25
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6/29/2012	17:50:00	23.36
6/29/2012	18:00:00	23.48
6/29/2012	18:10:00	23.59
6/29/2012	18:20:00	23.66
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6/29/2012	18:50:00	23.66
6/29/2012	19:00:00	23.66
6/29/2012	19:10:00	23.65
6/29/2012	19:20:00	23.63
6/29/2012	19:30:00	23.61
6/29/2012	19:40:00	23.58
6/29/2012	19:50:00	23.55
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6/29/2012	20:10:00	23.46
6/29/2012	20:20:00	23.41
6/29/2012	20:30:00	23.13
6/29/2012	20:40:00	22.91
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6/29/2012	21:00:00	22.69
6/29/2012	21:10:00	22.55
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6/30/2012	0:10:00	21.46
6/30/2012	0:20:00	21.37
6/30/2012	0:30:00	21.29
6/30/2012	0:40:00	21.21

6/30/2012	0:50:00	21.12
6/30/2012	1:00:00	21.04
6/30/2012	1:10:00	20.95
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6/30/2012	2:10:00	20.45
6/30/2012	2:20:00	20.39
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6/30/2012	2:40:00	20.22
6/30/2012	2:50:00	20.15
6/30/2012	3:00:00	20.07
6/30/2012	3:10:00	19.96
6/30/2012	3:20:00	19.87
6/30/2012	3:30:00	19.78
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6/30/2012	3:50:00	19.62
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6/30/2012	4:40:00	19.16
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6/30/2012	6:20:00	18.27
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6/30/2012	8:00:00	18.01
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6/30/2012	8:20:00	18.07
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6/30/2012	11:10:00	19.74
6/30/2012	11:20:00	19.93
6/30/2012	11:30:00	20.19
6/30/2012	11:40:00	20.47
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6/30/2012	17:10:00	20.55
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6/30/2012	21:30:00	22.50
6/30/2012	21:40:00	22.51
6/30/2012	21:50:00	22.51
6/30/2012	22:00:00	22.50
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6/30/2012	23:50:00	22.21
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		25.48

Station Name

Sangrun

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07/01/2012	0:50:00	22.07
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07/01/2012	1:10:00	22.03
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07/01/2012	6:00:00	20.90
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07/31/2012	23:30:00	19.08
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Station Name

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8/31/2012	12:10:00	18.92
8/31/2012	12:20:00	19.17
8/31/2012	12:30:00	19.40
8/31/2012	12:40:00	19.65
8/31/2012	12:50:00	19.92
8/31/2012	13:00:00	20.18
8/31/2012	13:10:00	20.40
8/31/2012	13:20:00	20.62
8/31/2012	13:30:00	20.91
8/31/2012	13:40:00	21.19
8/31/2012	13:50:00	21.38
8/31/2012	14:00:00	21.58
8/31/2012	14:10:00	21.86
8/31/2012	14:20:00	22.04
8/31/2012	14:30:00	22.25
8/31/2012	14:40:00	22.46
8/31/2012	14:50:00	22.61
8/31/2012	15:00:00	22.81
8/31/2012	15:10:00	22.96
8/31/2012	15:20:00	23.18
8/31/2012	15:30:00	23.37
8/31/2012	15:40:00	23.47
8/31/2012	15:50:00	23.60

8/31/2012	16:00:00	23.70
8/31/2012	16:10:00	23.87
8/31/2012	16:20:00	23.98
8/31/2012	16:30:00	24.06
8/31/2012	16:40:00	24.18
8/31/2012	16:50:00	24.20
8/31/2012	17:00:00	24.30
8/31/2012	17:10:00	24.41
8/31/2012	17:20:00	24.42
8/31/2012	17:30:00	24.51
8/31/2012	17:40:00	24.56
8/31/2012	17:50:00	24.57
8/31/2012	18:00:00	24.60
8/31/2012	18:10:00	24.62
8/31/2012	18:20:00	24.64
8/31/2012	18:30:00	24.59
8/31/2012	18:40:00	24.58
8/31/2012	18:50:00	24.55
8/31/2012	19:00:00	24.52
8/31/2012	19:10:00	24.47
8/31/2012	19:20:00	24.41
8/31/2012	19:30:00	24.36
8/31/2012	19:40:00	24.29
8/31/2012	19:50:00	24.21
8/31/2012	20:00:00	24.12
8/31/2012	20:10:00	24.04
8/31/2012	20:20:00	23.94
8/31/2012	20:30:00	23.85
8/31/2012	20:40:00	23.75
8/31/2012	20:50:00	23.65
8/31/2012	21:00:00	23.55
8/31/2012	21:10:00	23.44
8/31/2012	21:20:00	23.34
8/31/2012	21:30:00	23.24
8/31/2012	21:40:00	23.14
8/31/2012	21:50:00	23.04
8/31/2012	22:00:00	22.94
8/31/2012	22:10:00	22.84
8/31/2012	22:20:00	22.73
8/31/2012	22:30:00	22.64
8/31/2012	22:40:00	22.54
8/31/2012	22:50:00	22.43
8/31/2012	23:00:00	22.34
8/31/2012	23:10:00	22.24
8/31/2012	23:20:00	22.14
8/31/2012	23:30:00	22.03
8/31/2012	23:40:00	21.94

8/31/2012	23:50:00	21.84
9/1/2012	0:00:00	21.75

TEMPERATURE ENHANCEMENT PLAN
SANG RUN TEMPERATURE EXCURSIONS

Summary of Temperature Excursions
June 1, 2012 to June 30, 2012

Date	Duration	Max Temp (°C)	Cause	Remarks
June 13, 2012	2 hours 30 minutes	25.48	(1) Model Uncertainty	The protocol was conducted and it did not call for a release this day.

Summary of Temperature Excursions
July 1, 2012 to July 31, 2012

Date	Duration	Max Temp (°C)	Cause	Remarks
July 1, 2012	0 hours 30 minutes	25.43	Model Uncertainty	The protocol was conducted, and it called for a 2 hour release at 12:30. Both units ran full power for 2:10 hours from 12:30 - 14:40.
July 2, 2012	1 hours 0 minutes	25.72	Model Uncertainty	The protocol was conducted, and it called for a 2 hour release at 12:30. Both units ran full power for 2 hours from 12:30 - 14:30.
July 3, 2012	1 hours 40 minutes	26.27	Model Uncertainty	The protocol was conducted, and it called for a 2 hour release at 12:30. Both units ran full power for 2 hours from 12:30 - 14:30.
7/6/2012 (first excursion)	1 hours 0 minutes	25.82	Model Uncertainty	The protocol was conducted, and it called for a 2 hour release at 11:00. Both units ran full power for 2 hours from 11:00 - 13:00.
7/6/2012 (second excursion)	1 hours 20 minutes	25.15	Model Uncertainty	A release was conducted from 11:00 - 13:00.
July 7, 2012	0 hours 30 minutes	25.52	Model Uncertainty	The protocol was conducted and called for a 2 hour release at 11:00, but this release was covered by a scheduled whitewater release that ran from 10:50 - 14:00. Both units ran at full power for this period.
July 8, 2012	0 hours 10 minutes	25.05	Model Uncertainty	The protocol was conducted, and it called for a 2 hour release at 11:00. Both units ran full power for 2:11 hours from 11:00 - 13:11.
July 9, 2012	1 hours 30 minutes	26.19	Model Uncertainty	The protocol was conducted, and it called for a 2 hour release at 12:30. Both units ran full power for 2 hours from 12:30 - 14:30.
July 17, 2012	0 hours 10 minutes	25.17	Model Uncertainty	The protocol was conducted, and it called for a 2 hour release at 11:00. Both units ran full power for 2 hours from 11:00 - 13:00.
July 18, 2012	0 hours 10 minutes	25.06	Model Uncertainty	The protocol was conducted, and it called for a 2 hour release at 11:00. Both units ran full power for 2:37 hours from 11:00 - 13:37.
July 29, 2012	0 hours 40 minutes	25.35	Model Uncertainty	The protocol was conducted, and it called for a 2 hour release at 12:30. Both units ran full power for 2 hours from 12:30 - 14:30.

Summary of Temperature Excursions
August 1, 2012 to August 31, 2012

Date	Duration	Max Temp (°C)	Cause	Remarks
August 13, 2012	1 hours 50 minutes	25.98	Model Uncertainty	The protocol was conducted, and it called for a 1 hour release ASAP not later than 15:30. Both units ran full power for 1:00 hour from 15:30 - 16:30.
August 27, 2012	2 hours 20 minutes	25.64	Model Uncertainty	The protocol was conducted, and it called for a 1 hour release ASAP not later than 15:30. Both units ran full power for 1:08 hours from 16:00 - 17:08.
August 28, 2012	0 hours 50 minutes	25.50	Model Uncertainty	The protocol was conducted, and it called for a 1 hour release ASAP not later than 14:30 for one hour. Both units ran full power for 1:14 hours from 14:00 - 15:14.

TEMPERATURE ENHANCEMENT PLAN DAILY SHEETS

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

52 = CFS River Flow at Oakland

June 1, 2012

Simulate a Ra

Print Info for file

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	21.24 (23 to 26.4)	Check Again at 0900
0900	21.62 (23 to 25.9)	Check Again at 1100
1100	21.56 (23 to 25.4)	Check Again at 1200
1200	21.23 (23 to 25.3)	Check Again at 1400
1400	17.99 (23 to 25.2)	Check Again at 1500
1500	16.23	Check Again Tomorrow at 0700

Tair °C	21.67	Air Temp, Elkins WV - Degree C	71	Air Temp, Elkins WV - Degree F
CCF	100	Cloud Cover Factor, Elkins WV	TSTRMS	Cloud Cover, Elkins WV
T7	18.10	River Temp Sang Run @700		
T9	18.50	River Temp Sang Run @900		
T11	18.90	River Temp Sang Run @1100		
T12	19.00	River Temp Sang Run @1200		
T14	17.40	River Temp Sang Run @1400		
T15	15.80	River Temp Sang Run @1500		
Q	52.00	River Flow at Oakland		

John Taylor
6/1/12

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

56 = CFS River Flow at Oakland

June 2, 2012

Simulate a Ra

Print Info for file

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	19.95 (23 to 26.4)	No Further Predictions Necessary Today
0900	-- (23 to 25.9)	
1100	-- (23 to 25.4)	
1200	-- (23 to 25.3)	
1400	-- (23 to 25.2)	
1500	--	

Tair °C	18.33	Air Temp, Elkins WV - Degree C	65	Air Temp, Elkins WV - Degree F
CCF	64	Cloud Cover Factor, Elkins WV	MOCLDY	Cloud Cover, Elkins WV
T7	15.90	River Temp Sang Run @700		
T9	--	River Temp Sang Run @900		
T11	--	River Temp Sang Run @1100		
T12	--	River Temp Sang Run @1200		
T14	--	River Temp Sang Run @1400		
T15	--	River Temp Sang Run @1500		
Q	56.00	River Flow at Oakland		

T. [Signature] 6/2/12

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

50 = CFS River Flow at Oakland

June 3, 2012

Simulate a Ra

Print Info for file

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	21.15 (23 to 26.4)	Check Again at 0900
0900	20.92 (23 to 25.9)	Check Again at 1100
1100	21.80 (23 to 25.4)	Check Again at 1200
1200	21.17 (23 to 25.3)	Check Again at 1400
1400	21.87 (23 to 25.2)	Check Again at 1500
1500	22.33	Check Again Tomorrow at 0700

Tair °C	21.67	Air Temp, Elkins WV - Degree C	71	Air Temp, Elkins WV - Degree F
CCF	36	Cloud Cover Factor, Elkins WV	PTSUNY	Cloud Cover, Elkins WV
T7	14.00	River Temp Sang Run @700		
T9	14.10	River Temp Sang Run @900		
T11	16.00	River Temp Sang Run @1100		
T12	16.60	River Temp Sang Run @1200		
T14	19.20	River Temp Sang Run @1400		
T15	20.50	River Temp Sang Run @1500		
Q	50.00	River Flow at Oakland		

[Handwritten Signature] 6/3/12
6/03/12

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

41 = CFS River Flow at Oakland

June 4, 2012

Simulate a Ra

Print Info for file

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	21.79 (23 to 26.4)	Check Again at 0900
0900	21.63 (23 to 25.9)	Check Again at 1100
1100	20.59 (23 to 25.4)	Check Again at 1200
1200	20.28 (23 to 25.3)	Check Again at 1400
1400	17.15 (23 to 25.2)	Check Again at 1500
1500	18.45	Check Again Tomorrow at 0700

Tair °C	21.67	Air Temp, Elkins WV - Degree C	71	Air Temp, Elkins WV - Degree F
CCF	36	Cloud Cover Factor, Elkins WV	PTSUNY	Cloud Cover, Elkins WV
T7	14.80	River Temp Sang Run @700		
T9	14.90	River Temp Sang Run @900		
T11	15.60	River Temp Sang Run @1100		
T12	16.10	River Temp Sang Run @1200		
T14	15.50	River Temp Sang Run @1400		
T15	15.20	River Temp Sang Run @1500		
Q	41.00	River Flow at Oakland		

T. [Signature] 4/4/12

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

38 = CFS River Flow at Oakland

June 5, 2012

Simulate a Ra

Print Info for file

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	20.21 (23 to 26.4)	Check Again at 0900
0900	20.27 (23 to 25.9)	Check Again at 1100
1100	19.00 (23 to 25.4)	Check Again at 1200
1200	18.57 (23 to 25.3)	Check Again at 1400
1400	17.39 (23 to 25.2)	Check Again at 1500
1500	17.34	Check Again Tomorrow at 0700

Tair °C	18.89	Air Temp, Elkins WV - Degree C
CCF	64	Cloud Cover Factor, Elkins WV
T7	14.00	River Temp Sang Run @700
T9	14.30	River Temp Sang Run @900
T11	14.80	River Temp Sang Run @1100
T12	15.00	River Temp Sang Run @1200
T14	15.40	River Temp Sang Run @1400
T15	15.80	River Temp Sang Run @1500
Q	38.00	River Flow at Oakland

66
MOCLDY

Air Temp, Elkins WV - Degree F
Cloud Cover, Elkins WV

T. Cap 6/5/12

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

36 = CFS River Flow at Oakland

June 6, 2012

Simulate a Ra

Print Info for file

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	20.15 (23 to 26.4)	Check Again at 0900
0900	20.30 (23 to 25.9)	Check Again at 1100
1100	21.34 (23 to 25.4)	Check Again at 1200
1200	21.03 (23 to 25.3)	Check Again at 1400
1400	18.92 (23 to 25.2)	Check Again at 1500
1500	19.05	Check Again Tomorrow at 0700

Tair °C	18.89	Air Temp, Elkins WV - Degree C	66	Air Temp, Elkins WV - Degree F
CCF	64	Cloud Cover Factor, Elkins WV	SHWRS	Cloud Cover, Elkins WV
T7	13.60	River Temp Sang Run @700		
T9	14.00	River Temp Sang Run @900		
T11	16.30	River Temp Sang Run @1100		
T12	17.20	River Temp Sang Run @1200		
T14	17.50	River Temp Sang Run @1400		
T15	17.90	River Temp Sang Run @1500		
Q	36.00	River Flow at Oakland		

[Handwritten signature] 6/6/12

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

46 = CFS River Flow at Oakland

June 7, 2012

Simulate a Ra

Print Info for file

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	20.04 (23 to 26.4)	Check Again at 0900
0900	20.32 (23 to 25.9)	Check Again at 1100
1100	20.55 (23 to 25.4)	Check Again at 1200
1200	21.67 (23 to 25.3)	Check Again at 1400
1400	21.85 (23 to 25.2)	Check Again at 1500
1500	21.54	Check Again Tomorrow at 0700

Tair °C	22.22	Air Temp, Elkins WV - Degree C	72	Air Temp, Elkins WV - Degree F
CCF	100	Cloud Cover Factor, Elkins WV	TSTRMS	Cloud Cover, Elkins WV
T7	13.30	River Temp Sang Run @700		
T9	14.00	River Temp Sang Run @900		
T11	15.40	River Temp Sang Run @1100		
T12	17.40	River Temp Sang Run @1200		
T14	19.50	River Temp Sang Run @1400		
T15	20.00	River Temp Sang Run @1500		
Q	46.00	River Flow at Oakland		

Paul Ryan
6/7/12

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

36 = CFS River Flow at Oakland

June 8, 2012

Simulate a Ra

Print Info for file

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	23.21 (23 to 26.4)	Check Again at 0900
0900	22.83 (23 to 25.9)	Check Again at 1100
1100	23.02 (23 to 25.4)	Check Again at 1200
1200	22.88 (23 to 25.3)	Check Again at 1400
1400	17.78 (23 to 25.2)	Check Again at 1500
1500	17.85	Check Again Tomorrow at 0700

Tair °C	26.11	Air Temp, Elkins WV - Degree C	79	Air Temp, Elkins WV - Degree F
CCF	36	Cloud Cover Factor, Elkins WV	PTCLDY	Cloud Cover, Elkins WV
T7	14.20	River Temp Sang Run @700		
T9	14.30	River Temp Sang Run @900		
T11	16.20	River Temp Sang Run @1100		
T12	17.40	River Temp Sang Run @1200		
T14	16.20	River Temp Sang Run @1400		
T15	16.60	River Temp Sang Run @1500		
Q	36.00	River Flow at Oakland		

Paul Clayton
6/8/12

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

32 = CFS River Flow at Oakland

June 9, 2012

Simulate a Ra

Print Info for file

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	24.08 (23 to 26.4)	Check Again at 0900
0900	23.80 (23 to 25.9)	Check Again at 1100
1100	23.91 (23 to 25.4)	Check Again at 1200
1200	23.71 (23 to 25.3)	Check Again at 1400
1400	24.31 (23 to 25.2)	Check Again at 1500
1500	23.76	Check Again Tomorrow at 0700

Tair °C	27.78	Air Temp, Elkins WV - Degree C	82	Air Temp, Elkins WV - Degree F
CCF	36	Cloud Cover Factor, Elkins WV	PTCLDY	Cloud Cover, Elkins WV
T7	14.70	River Temp Sang Run @700		
T9	14.90	River Temp Sang Run @900		
T11	16.90	River Temp Sang Run @1100		
T12	18.10	River Temp Sang Run @1200		
T14	21.20	River Temp Sang Run @1400		
T15	21.90	River Temp Sang Run @1500		
Q	32.00	River Flow at Oakland		

John C. Payne
6/9/12

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

27 = CFS River Flow at Oakland

June 10, 2012

Simulate a Ra

Print Info for file

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	25.89 (23 to 26.4)	Check Again at 0900
0900	25.41 (23 to 25.9)	Check Again at 1100
1100	25.46 (23 to 25.4)	Release at 1230 for 2 Hours
1200	-- (23 to 25.3)	--
1400	-- (23 to 25.2)	--
1500	--	--

Tair °C	32.22	Air Temp, Elkins WV - Degree C	90	Air Temp, Elkins WV - Degree F
CCF	36	Cloud Cover Factor, Elkins WV	PTCLDY	Cloud Cover, Elkins WV
T7	15.60	River Temp Sang Run @700		
T9	15.70	River Temp Sang Run @900		
T11	17.70	River Temp Sang Run @1100		
T12	--	River Temp Sang Run @1200		
T14	--	River Temp Sang Run @1400		
T15	--	River Temp Sang Run @1500		
Q	27.00	River Flow at Oakland		

John R. ... 6/10/12

Release Complete @ 14:30

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

26 = CFS River Flow at Oakland

June 11, 2012

Simulate a Ra

Print Info for file

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	23.73 (23 to 26.4)	Check Again at 0900
0900	23.51 (23 to 25.9)	Check Again at 1100
1100	23.53 (23 to 25.4)	Check Again at 1200
1200	22.75 (23 to 25.3)	Check Again at 1400
1400	18.07 (23 to 25.2)	Check Again at 1500
1500	17.74	Check Again Tomorrow at 0700

Tair °C	26.11	Air Temp, Elkins WV - Degree C	79	Air Temp, Elkins WV - Degree F
CCF	64	Cloud Cover Factor, Elkins WV	SHWRS	Cloud Cover, Elkins WV
T7	16.60	River Temp Sang Run @700		
T9	16.70	River Temp Sang Run @900		
T11	18.20	River Temp Sang Run @1100		
T12	18.50	River Temp Sang Run @1200		
T14	16.90	River Temp Sang Run @1400		
T15	16.80	River Temp Sang Run @1500		
Q	26.00	River Flow at Oakland		

Judy Taylor 6/11/12
WWR Today from 11-2

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

29 = CFS River Flow at Oakland

June 12, 2012

Simulate a Ra

Print Info for file

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	23.34 (23 to 26.4)	Check Again at 0900
0900	23.08 (23 to 25.9)	Check Again at 1100
1100	22.10 (23 to 25.4)	Check Again at 1200
1200	22.18 (23 to 25.3)	Check Again at 1400
1400	22.92 (23 to 25.2)	Check Again at 1500
1500	23.86	Check Again Tomorrow at 0700

Tair °C	25.56	Air Temp, Elkins WV - Degree C	78	Air Temp, Elkins WV - Degree F
CCF	100	Cloud Cover Factor, Elkins WV	TSTRMS	Cloud Cover, Elkins WV
T7	18.00	River Temp Sang Run @700		
T9	18.00	River Temp Sang Run @900		
T11	18.30	River Temp Sang Run @1100		
T12	18.90	River Temp Sang Run @1200		
T14	20.70	River Temp Sang Run @1400		
T15	22.30	River Temp Sang Run @1500		
Q	29.00	River Flow at Oakland		

Q meter 6/12/12

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

36 = CFS River Flow at Oakland

June 13, 2012

Simulate a Ra

Print Info for file

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	23.79 (23 to 26.4)	Check Again at 0900
0900	23.65 (23 to 25.9)	Check Again at 1100
1100	23.85 (23 to 25.4)	Check Again at 1200
1200	23.84 (23 to 25.3)	Check Again at 1400
1400	22.96 (23 to 25.2)	Check Again at 1500
1500	24.14	Check Again Tomorrow at 0700

Shutt

Tair °C	24.44	Air Temp, Elkins WV - Degree C	76	Air Temp, Elkins WV - Degree F
CCF	36	Cloud Cover Factor, Elkins WV	PTCLDY	Cloud Cover, Elkins WV
T7	17.50	River Temp Sang Run @700		
T9	17.50	River Temp Sang Run @900		
T11	19.00	River Temp Sang Run @1100		
T12	20.00	River Temp Sang Run @1200		
T14	21.30	River Temp Sang Run @1400		
T15	22.90	River Temp Sang Run @1500		
Q	36.00	River Flow at Oakland		

R. McKenna 6/13/12

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

35 = CFS River Flow at Oakland

June 14, 2012

Simulate a Ra

Print Info for file

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	24.38 (23 to 26.4)	Check Again at 0900
0900	24.28 (23 to 25.9)	Check Again at 1100
1100	24.49 (23 to 25.4)	Check Again at 1200
1200	24.07 (23 to 25.3)	Check Again at 1400
1400	24.05 (23 to 25.2)	Check Again at 1500
1500	24.51	Check Again Tomorrow at 0700

Shubh

Tair °C	26.67	Air Temp, Elkins WV - Degree C	80	Air Temp, Elkins WV - Degree F
CCF	9	Cloud Cover Factor, Elkins WV	MOSUNNY	Cloud Cover, Elkins WV
T7	15.50	River Temp Sang Run @700		
T9	15.70	River Temp Sang Run @900		
T11	17.80	River Temp Sang Run @1100		
T12	18.80	River Temp Sang Run @1200		
T14	21.40	River Temp Sang Run @1400		
T15	22.80	River Temp Sang Run @1500		
Q	35.00	River Flow at Oakland		

Rmekema 6/14/12

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

24 = CFS River Flow at Oakland

June 15, 2012

Simulate a Ra

Print Info for file

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	25.69 (23 to 26.4)	Check Again at 0900
0900	25.94 (23 to 25.9)	Release at 1100 for 2 Hours
1100	-- (23 to 25.4)	--
1200	-- (23 to 25.3)	--
1400	-- (23 to 25.2)	--
1500	--	--

Tair °C	28.89	Air Temp, Elkins WV - Degree C	84	Air Temp, Elkins WV - Degree F
CCF	1	Cloud Cover Factor, Elkins WV	SUNNY	Cloud Cover, Elkins WV
T7	16.20	River Temp Sang Run @700		
T9	16.70	River Temp Sang Run @900		
T11	--	River Temp Sang Run @1100		
T12	--	River Temp Sang Run @1200		
T14	--	River Temp Sang Run @1400		
T15	--	River Temp Sang Run @1500		
Q	24.00	River Flow at Oakland		

Johny E. ... 6/15

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

20 = CFS River Flow at Oakland

June 16, 2012

Simulate a Ra

Print Info for file

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	25.20 (23 to 26.4)	Check Again at 0900
0900	25.09 (23 to 25.9)	Check Again at 1100
1100	26.13 (23 to 25.4)	Release at 1230 for 2 Hours
1200	-- (23 to 25.3)	--
1400	-- (23 to 25.2)	--
1500	--	--

Tair °C	27.78	Air Temp, Elkins WV - Degree C	82	Air Temp, Elkins WV - Degree F
CCF	1	Cloud Cover Factor, Elkins WV	SUNNY	Cloud Cover, Elkins WV
T7	15.80	River Temp Sang Run @700		
T9	16.00	River Temp Sang Run @900		
T11	18.90	River Temp Sang Run @1100		
T12	--	River Temp Sang Run @1200		
T14	--	River Temp Sang Run @1400		
T15	--	River Temp Sang Run @1500		
Q	20.00	River Flow at Oakland		

[Handwritten Signature] 6/16

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

18 = CFS River Flow at Oakland

June 17, 2012

Simulate a Ra

Print Info for file

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	24.06 (23 to 26.4)	Check Again at 0900
0900	23.97 (23 to 25.9)	Check Again at 1100
1100	24.09 (23 to 25.4)	Check Again at 1200
1200	24.36 (23 to 25.3)	Check Again at 1400
1400	22.97 (23 to 25.2)	Check Again at 1500
1500	22.41	Check Again Tomorrow at 0700

Tair °C	26.11	Air Temp, Elkins WV - Degree C	79	Air Temp, Elkins WV - Degree F
CCF	36	Cloud Cover Factor, Elkins WV	PTCLDY	Cloud Cover, Elkins WV
T7	16.00	River Temp Sang Run @700		
T9	16.20	River Temp Sang Run @900		
T11	18.10	River Temp Sang Run @1100		
T12	19.60	River Temp Sang Run @1200		
T14	21.00	River Temp Sang Run @1400		
T15	21.20	River Temp Sang Run @1500		
Q	18.00	River Flow at Oakland		

John E. ... 6/17

[Signature]

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

48 = CFS River Flow at Oakland

June 18, 2012

Simulate a Ra

Print Info for file

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	22.60 (23 to 26.4)	Check Again at 0900
0900	22.14 (23 to 25.9)	Check Again at 1100
1100	21.42 (23 to 25.4)	Check Again at 1200
1200	-- (23 to 25.3)	Input 1200 SANG RUN Temp
1400	-- (23 to 25.2)	Input 1200 SANG RUN Temp
1500	--	Input 1200 SANG RUN Temp

Tair °C	26.11	Air Temp, Elkins WV - Degree C	79	Air Temp, Elkins WV - Degree F
CCF	100	Cloud Cover Factor, Elkins WV	TSTRMS	Cloud Cover, Elkins WV
T7	17.40	River Temp Sang Run @700		
T9	17.30	River Temp Sang Run @900		
T11	17.30	River Temp Sang Run @1100		
T12	--	River Temp Sang Run @1200		
T14	--	River Temp Sang Run @1400		
T15	--	River Temp Sang Run @1500		
Q	48.00	River Flow at Oakland		

Scheduled whitewater release started at 11 AM.

Johny E. ... 6/18

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

118 = CFS River Flow at Oakland

June 19, 2012

Simulate a Ra

Print Info for file

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	23.06 (23 to 26.4)	Check Again at 0900
0900	22.21 (23 to 25.9)	Check Again at 1100
1100	25.41 (23 to 25.4)	Release at 1230 for 2 Hours
1200	-- (23 to 25.3)	--
1400	-- (23 to 25.2)	--
1500	--	--

Tair °C	30.00	Air Temp, Elkins WV - Degree C	86	Air Temp, Elkins WV - Degree F
CCF	64	Cloud Cover Factor, Elkins WV	MOCLDY	Cloud Cover, Elkins WV
T7	19.20	River Temp Sang Run @700		
T9	19.30	River Temp Sang Run @900		
T11	20.40	River Temp Sang Run @1100		
T12	--	River Temp Sang Run @1200		
T14	--	River Temp Sang Run @1400		
T15	--	River Temp Sang Run @1500		
Q	118.00	River Flow at Oakland		

John Elkins 6/19

[Signature]

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

46 = CFS River Flow at Oakland

June 20, 2012

Simulate a Ra

Print Info for file

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	24.80 (23 to 26.4)	Check Again at 0900
0900	24.52 (23 to 25.9)	Check Again at 1100
1100	25.99 (23 to 25.4)	Release at 1230 for 2 Hours
1200	-- (23 to 25.3)	--
1400	-- (23 to 25.2)	--
1500	--	--

Tair °C	31.11	Air Temp, Elkins WV - Degree C	88	Air Temp, Elkins WV - Degree F
CCF	100	Cloud Cover Factor, Elkins WV	TSTRMS	Cloud Cover, Elkins WV
T7	18.90	River Temp Sang Run @700		
T9	19.00	River Temp Sang Run @900		
T11	20.70	River Temp Sang Run @1100		
T12	--	River Temp Sang Run @1200		
T14	--	River Temp Sang Run @1400		
T15	--	River Temp Sang Run @1500		
Q	46.00	River Flow at Oakland		

John E. ... 6/20

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

32 = CFS River Flow at Oakland

June 21, 2012

Simulate a Ra

Print Info for file

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	25.49 (23 to 26.4)	Check Again at 0900
0900	25.38 (23 to 25.9)	Check Again at 1100
1100	26.65 (23 to 25.4)	Release at 1230 for 2 Hours
1200	-- (23 to 25.3)	--
1400	-- (23 to 25.2)	--
1500	--	--

Tair °C	31.11	Air Temp, Elkins WV - Degree C	88	Air Temp, Elkins WV - Degree F
CCF	100	Cloud Cover Factor, Elkins WV	TSTRMS	Cloud Cover, Elkins WV
T7	19.30	River Temp Sang Run @700		
T9	19.50	River Temp Sang Run @900		
T11	21.40	River Temp Sang Run @1100		
T12	--	River Temp Sang Run @1200		
T14	--	River Temp Sang Run @1400		
T15	--	River Temp Sang Run @1500		
Q	32.00	River Flow at Oakland		

R. Metcalf 6/21/12

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

33 = CFS River Flow at Oakland

June 22, 2012

Simulate a Ra

Print Info for file

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	24.40 (23 to 26.4)	Check Again at 0900
0900	-- (23 to 25.9)	Input 0900 SANG RUN Temp
1100	-- (23 to 25.4)	Input 0900 SANG RUN Temp
1200	-- (23 to 25.3)	Input 0900 SANG RUN Temp
1400	-- (23 to 25.2)	Input 0900 SANG RUN Temp
1500	--	Input 0900 SANG RUN Temp

Tair °C	27.22	Air Temp, Elkins WV - Degree C	81	Air Temp, Elkins WV - Degree F
CCF	100	Cloud Cover Factor, Elkins WV	TSTRMS	Cloud Cover, Elkins WV
T7	19.90	River Temp Sang Run @700		
T9	--	River Temp Sang Run @900		
T11	--	River Temp Sang Run @1100		
T12	--	River Temp Sang Run @1200		
T14	--	River Temp Sang Run @1400		
T15	--	River Temp Sang Run @1500		
Q	33.00	River Flow at Oakland		

R. Mettner 6/22/12
SCHEDULED WWR

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

52 = CFS River Flow at Oakland

June 23, 2012

Simulate a Ra

Print Info for file

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	-- (23 to 26.4)	Input 0700 SANG RUN Temp
0900	-- (23 to 25.9)	Input 0700 SANG RUN Temp
1100	-- (23 to 25.4)	Input 0700 SANG RUN Temp
1200	-- (23 to 25.3)	Input 0700 SANG RUN Temp
1400	-- (23 to 25.2)	Input 0700 SANG RUN Temp
1500	--	Input 0700 SANG RUN Temp

wwr today - Shw

Tair °C	23.33	Air Temp, Elkins WV - Degree C	74	Air Temp, Elkins WV - Degree F
CCF	1	Cloud Cover Factor, Elkins WV	SUNNY	Cloud Cover, Elkins WV
T7	No Data	River Temp Sang Run @700		
T9	--	River Temp Sang Run @900		
T11	--	River Temp Sang Run @1100		
T12	--	River Temp Sang Run @1200		
T14	--	River Temp Sang Run @1400		
T15	--	River Temp Sang Run @1500		
Q	52.00	River Flow at Oakland		

R McKenna 6/23/12 WWR TODAY

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

32 = CFS River Flow at Oakland

June 24, 2012

Simulate a Ra

Print Info for file

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	25.62 (23 to 26.4)	Check Again at 0900
0900	26.95 (23 to 25.9)	Release at 1100 for 2 Hours
1100	-- (23 to 25.4)	--
1200	-- (23 to 25.3)	--
1400	-- (23 to 25.2)	--
1500	--	--

Tair °C	28.89	Air Temp, Elkins WV - Degree C	84	Air Temp, Elkins WV - Degree F
CCF	36	Cloud Cover Factor, Elkins WV	PTCLDY	Cloud Cover, Elkins WV
T7	18.20	River Temp Sang Run @700		
T9	19.50	River Temp Sang Run @900		
T11	--	River Temp Sang Run @1100		
T12	--	River Temp Sang Run @1200		
T14	--	River Temp Sang Run @1400		
T15	--	River Temp Sang Run @1500		
Q	32.00	River Flow at Oakland		

Rmckenzie 6/24/12

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

24 = CFS River Flow at Oakland

June 25, 2012

Simulate a Ra

Print Info for file

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	23.93 (23 to 26.4)	Check Again at 0900 <i>wrk scheduled</i>
0900	-- (23 to 25.9)	Input 0900 SANG RUN Temp
1100	-- (23 to 25.4)	Input 0900 SANG RUN Temp
1200	-- (23 to 25.3)	Input 0900 SANG RUN Temp
1400	-- (23 to 25.2)	Input 0900 SANG RUN Temp
1500	--	Input 0900 SANG RUN Temp

WLF

Tair °C	25.56	Air Temp, Elkins WV - Degree C	78	Air Temp, Elkins WV - Degree F
CCF	64	Cloud Cover Factor, Elkins WV	MOCLDY	Cloud Cover, Elkins WV
T7	17.70	River Temp Sang Run @700		
T9	--	River Temp Sang Run @900		
T11	--	River Temp Sang Run @1100		
T12	--	River Temp Sang Run @1200		
T14	--	River Temp Sang Run @1400		
T15	--	River Temp Sang Run @1500		
Q	24.00	River Flow at Oakland		

R McKenna 6/25/12

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

20 = CFS River Flow at Oakland

June 26, 2012

Simulate a Ra

Print Info for file

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	23.75 (23 to 26.4)	Check Again at 0900
0900	23.67 (23 to 25.9)	Check Again at 1100
1100	22.46 (23 to 25.4)	Check Again at 1200
1200	21.69 (23 to 25.3)	Check Again at 1400
1400	21.20 (23 to 25.2)	Check Again at 1500
1500	20.99	Check Again Tomorrow at 0700 <i>K</i>

Tair °C	24.44	Air Temp, Elkins WV - Degree C	76	Air Temp, Elkins WV - Degree F
CCF	1	Cloud Cover Factor, Elkins WV	SUNNY	Cloud Cover, Elkins WV
T7	14.70	River Temp Sang Run @700		
T9	14.90	River Temp Sang Run @900		
T11	16.20	River Temp Sang Run @1100		
T12	16.60	River Temp Sang Run @1200		
T14	18.50	River Temp Sang Run @1400		
T15	19.20	River Temp Sang Run @1500		
Q	20.00	River Flow at Oakland		

Jeffrey...
6-26-12

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

18 = CFS River Flow at Oakland

June 27, 2012

Simulate a Ra

Print Info for file

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	23.97 (23 to 26.4)	Check Again at 0900
0900	25.02 (23 to 25.9)	Check Again at 1100
1100	22.79 (23 to 25.4)	Check Again at 1200
1200	23.03 (23 to 25.3)	Check Again at 1400
1400	23.52 (23 to 25.2)	Check Again at 1500
1500	23.71	Check Again Tomorrow at 0700

Tair °C	25.56	Air Temp, Elkins WV - Degree C	78	Air Temp, Elkins WV - Degree F
CCF	1	Cloud Cover Factor, Elkins WV	SUNNY	Cloud Cover, Elkins WV
T7	14.30	River Temp Sang Run @700		
T9	15.50	River Temp Sang Run @900		
T11	16.60	River Temp Sang Run @1100		
T12	17.90	River Temp Sang Run @1200		
T14	20.70	River Temp Sang Run @1400		
T15	21.90	River Temp Sang Run @1500		
Q	18.00	River Flow at Oakland		

R. M. Mcken 6/30/12

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

16 = CFS River Flow at Oakland

June 28, 2012

Simulate a Ra

Print Info for file

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	26.88 (23 to 26.4)	Release at 1100 for 2 Hours
0900	-- (23 to 25.9)	
1100	-- (23 to 25.4)	
1200	-- (23 to 25.3)	
1400	-- (23 to 25.2)	
1500	--	

Tair °C	31.67	Air Temp, Elkins WV - Degree C	89	Air Temp, Elkins WV - Degree F
CCF	1	Cloud Cover Factor, Elkins WV	SUNNY	Cloud Cover, Elkins WV
T7	16.40	River Temp Sang Run @700		
T9	--	River Temp Sang Run @900		
T11	--	River Temp Sang Run @1100		
T12	--	River Temp Sang Run @1200		
T14	--	River Temp Sang Run @1400		
T15	--	River Temp Sang Run @1500		
Q	16.00	River Flow at Oakland		

Released for 2 hrs 11-1300
6/28/12

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

14 = CFS River Flow at Oakland

June 29, 2012

Simulate a Ra

Print Info for file

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	23.19 (23 to 26.4)	Release at 1100 for 2 Hours JCE
0900	-- (23 to 25.9)	--
1100	-- (23 to 25.4)	--
1200	-- (23 to 25.3)	--
1400	-- (23 to 25.2)	--
1500	--	--

Tair °C	33.89	Air Temp, Elkins WV - Degree C	93	Air Temp, Elkins WV - Degree F
CCF	9	Cloud Cover Factor, Elkins WV	MOSUNNY	Cloud Cover, Elkins WV
T7	19.30	River Temp Sang Run @700		
T9	--	River Temp Sang Run @900		
T11	--	River Temp Sang Run @1100		
T12	--	River Temp Sang Run @1200		
T14	--	River Temp Sang Run @1400		
T15	--	River Temp Sang Run @1500		
Q	14.00	River Flow at Oakland		

John P. Ryan 6/29/12
 Temp release 11-1300

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

52 = CFS River Flow at Oakland

June 30, 2012

Simulate a Ra

Print Info for file

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	25.09 (23 to 26.4)	Check Again at 0900
0900	25.07 (23 to 25.9)	Check Again at 1100
1100	25.01 (23 to 25.4)	Check Again at 1200
1200	-- (23 to 25.3)	Input 1200 SANG RUN Temp
1400	-- (23 to 25.2)	Input 1200 SANG RUN Temp
1500	--	Input 1200 SANG RUN Temp

Tair °C	27.78	Air Temp, Elkins WV - Degree C	82	Air Temp, Elkins WV - Degree F
CCF	1	Cloud Cover Factor, Elkins WV	SUNNY	Cloud Cover, Elkins WV
T7	18.10	River Temp Sang Run @700		
T9	18.20	River Temp Sang Run @900		
T11	19.40	River Temp Sang Run @1100		
T12	--	River Temp Sang Run @1200		
T14	--	River Temp Sang Run @1400		
T15	--	River Temp Sang Run @1500		
Q	52.00	River Flow at Oakland		

* WHITewater RELEASE 11:00 - 14:00 ↓CE

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

43 = CFS River Flow at Oakland

July 1, 2012

Simulate a Ra

Print Info for file

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	25.70 (23 to 26.4)	Check Again at 0900
0900	25.57 (23 to 25.9)	Check Again at 1100
1100	27.00 (23 to 25.4)	Release at 1230 for 2 Hours
1200	-- (23 to 25.3)	--
1400	-- (23 to 25.2)	--
1500	--	--

Tair °C	31.67	Air Temp, Elkins WV - Degree C	89	Air Temp, Elkins WV - Degree F
CCF	100	Cloud Cover Factor, Elkins WV	TSTRMS	Cloud Cover, Elkins WV
T7	20.70	River Temp Sang Run @700		
T9	20.80	River Temp Sang Run @900		
T11	22.40	River Temp Sang Run @1100		
T12	--	River Temp Sang Run @1200		
T14	--	River Temp Sang Run @1400		
T15	--	River Temp Sang Run @1500		
Q	43.00	River Flow at Oakland		

Q McKenna 7-01-12

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

101 = CFS River Flow at Oakland

July 2, 2012

Simulate a Ra

Print Info for file

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	22.90 (23 to 26.4)	Check Again at 0900
0900	22.72 (23 to 25.9)	Check Again at 1100
1100	26.72 (23 to 25.4)	Release at 1230 for 2 Hours
1200	-- (23 to 25.3)	--
1400	-- (23 to 25.2)	--
1500	--	--

Tair °C	30.56	Air Temp, Elkins WV - Degree C	87	Air Temp, Elkins WV - Degree F
CCF	100	Cloud Cover Factor, Elkins WV	TSTRMS	Cloud Cover, Elkins WV
T7	20.20	River Temp Sang Run @700		
T9	20.30	River Temp Sang Run @900		
T11	22.10	River Temp Sang Run @1100		
T12	--	River Temp Sang Run @1200		
T14	--	River Temp Sang Run @1400		
T15	--	River Temp Sang Run @1500		
Q	101.00	River Flow at Oakland		

7/02/12
Qmekeme

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

Simulate a Ra

35 = CFS River Flow at Oakland

July 3, 2012

Print Info for file

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	26.02 (23 to 26.4)	Check Again at 0900
0900	25.77 (23 to 25.9)	Check Again at 1100
1100	27.23 (23 to 25.4)	Release at 1230 for 2 Hours
1200	-- (23 to 25.3)	--
1400	-- (23 to 25.2)	--
1500	--	--

Tair °C	31.67	Air Temp, Elkins WV - Degree C	89	Air Temp, Elkins WV - Degree F
CCF	100	Cloud Cover Factor, Elkins WV	TSTRMS	Cloud Cover, Elkins WV
T7	20.70	River Temp Sang Run @700		
T9	20.70	River Temp Sang Run @900		
T11	22.50	River Temp Sang Run @1100		
T12	--	River Temp Sang Run @1200		
T14	--	River Temp Sang Run @1400		
T15	--	River Temp Sang Run @1500		
Q	35.00	River Flow at Oakland		

7/03/12 *Brockme*

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

Simulate a Ra

22 = CFS River Flow at Oakland

July 4, 2012

Print Info for file

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	26.23 (23 to 26.4)	Check Again at 0900
0900	28.40 (23 to 25.9)	Release at 1100 for 2 Hours
1100	-- (23 to 25.4)	--
1200	-- (23 to 25.3)	--
1400	-- (23 to 25.2)	--
1500	--	--

Tair °C	32.22	Air Temp, Elkins WV - Degree C	90	Air Temp, Elkins WV - Degree F
CCF	100	Cloud Cover Factor, Elkins WV	TSTRMS	Cloud Cover, Elkins WV
T7	20.20	River Temp Sang Run @700		
T9	20.60	River Temp Sang Run @900		
T11	--	River Temp Sang Run @1100		
T12	--	River Temp Sang Run @1200		
T14	--	River Temp Sang Run @1400		
T15	--	River Temp Sang Run @1500		
Q	22.00	River Flow at Oakland		

R McKenna 7/04/12

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

Simulate a Ra

18 = CFS River Flow at Oakland

July 5, 2012

Print Info for file

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	26.61 (23 to 26.4)	Release at 1100 for 2 Hours
0900	-- (23 to 25.9)	--
1100	-- (23 to 25.4)	--
1200	-- (23 to 25.3)	--
1400	-- (23 to 25.2)	--
1500	--	--

Tair °C	32.78	Air Temp, Elkins WV - Degree C	91	Air Temp, Elkins WV - Degree F
CCF	100	Cloud Cover Factor, Elkins WV	TSTRMS	Cloud Cover, Elkins WV
T7	20.50	River Temp Sang Run @700		
T9	--	River Temp Sang Run @900		
T11	--	River Temp Sang Run @1100		
T12	--	River Temp Sang Run @1200		
T14	--	River Temp Sang Run @1400		
T15	--	River Temp Sang Run @1500		
Q	18.00	River Flow at Oakland		

Handwritten signature 7/5/12

Handwritten signature 8/5/12

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

Simulate a Ra

15 = CFS River Flow at Oakland

July 6, 2012

Print Info for file

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	27.97 (23 to 26.4)	Release at 1100 for 2 Hours
0900	-- (23 to 25.9)	--
1100	-- (23 to 25.4)	--
1200	-- (23 to 25.3)	--
1400	-- (23 to 25.2)	--
1500	--	--

Tair °C	33.89	Air Temp, Elkins WV - Degree C	93	Air Temp, Elkins WV - Degree F
CCF	100	Cloud Cover Factor, Elkins WV	TSTRMS	Cloud Cover, Elkins WV
T7	21.10	River Temp Sang Run @700		
T9	--	River Temp Sang Run @900		
T11	--	River Temp Sang Run @1100		
T12	--	River Temp Sang Run @1200		
T14	--	River Temp Sang Run @1400		
T15	--	River Temp Sang Run @1500		
Q	15.00	River Flow at Oakland		

[Handwritten Signature] 7/6/12

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

Simulate a Ra

13 = CFS River Flow at Oakland

July 7, 2012

Print Info for file

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	25.77 (23 to 26.4)	Release at 1100 for 2 Hours
0900	-- (23 to 25.9)	--
1100	-- (23 to 25.4)	--
1200	-- (23 to 25.3)	--
1400	-- (23 to 25.2)	--
1500	--	--

Tair °C	36.11	Air Temp, Elkins WV - Degree C	97	Air Temp, Elkins WV - Degree F
CCF	1	Cloud Cover Factor, Elkins WV	SUNNY	Cloud Cover, Elkins WV
T7	21.40	River Temp Sang Run @700		
T9	--	River Temp Sang Run @900		
T11	--	River Temp Sang Run @1100		
T12	--	River Temp Sang Run @1200		
T14	--	River Temp Sang Run @1400		
T15	--	River Temp Sang Run @1500		
Q	13.00	River Flow at Oakland		

John Elkin 7/7

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

Simulate a Ra

11 = CFS River Flow at Oakland

July 8, 2012

Print Info for file

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	25.90 (23 to 26.4)	Release at 1100 for 2 Hours
0900	-- (23 to 25.9)	--
1100	-- (23 to 25.4)	--
1200	-- (23 to 25.3)	--
1400	-- (23 to 25.2)	--
1500	--	--

Tair °C	32.22	Air Temp, Elkins WV - Degree C	90	Air Temp, Elkins WV - Degree F
CCF	100	Cloud Cover Factor, Elkins WV	TSTRMS	Cloud Cover, Elkins WV
T7	21.30	River Temp Sang Run @700		
T9	--	River Temp Sang Run @900		
T11	--	River Temp Sang Run @1100		
T12	--	River Temp Sang Run @1200		
T14	--	River Temp Sang Run @1400		
T15	--	River Temp Sang Run @1500		
Q	11.00	River Flow at Oakland		

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

12 = CFS River Flow at Oakland

July 9, 2012

Simulate a Ra

Print Info for file

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	24.84 (23 to 26.4)	Check Again at 0900
0900	24.70 (23 to 25.9)	Check Again at 1100
1100	25.78 (23 to 25.4)	Release at 1230 for 2 Hours
1200	-- (23 to 25.3)	--
1400	-- (23 to 25.2)	--
1500	--	--

Tair °C	27.78	Air Temp, Elkins WV - Degree C	82	Air Temp, Elkins WV - Degree F
CCF	100	Cloud Cover Factor, Elkins WV	TSTRMS	Cloud Cover, Elkins WV
T7	20.30	River Temp Sang Run @700		
T9	20.30	River Temp Sang Run @900		
T11	21.90	River Temp Sang Run @1100		
T12	--	River Temp Sang Run @1200		
T14	--	River Temp Sang Run @1400		
T15	--	River Temp Sang Run @1500		
Q	12.00	River Flow at Oakland		

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

18 = CFS River Flow at Oakland

July 10, 2012

Simulate a Ra

Print Info for file

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	25.86 (23 to 26.4)	Check Again at 0900
0900	25.53 (23 to 25.9)	Check Again at 1100
1100	25.56 (23 to 25.4)	Release at 1230 for 2 Hours
1200	-- (23 to 25.3)	--
1400	-- (23 to 25.2)	--
1500	--	--

Tair °C	28.33	Air Temp, Elkins WV - Degree C	83	Air Temp, Elkins WV - Degree F
CCF	9	Cloud Cover Factor, Elkins WV	MOSUNNY	Cloud Cover, Elkins WV
T7	17.70	River Temp Sang Run @700		
T9	17.60	River Temp Sang Run @900		
T11	19.40	River Temp Sang Run @1100		
T12	--	River Temp Sang Run @1200		
T14	--	River Temp Sang Run @1400		
T15	--	River Temp Sang Run @1500		
Q	18.00	River Flow at Oakland		

R. McKenna 7/10/12

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

Simulate a Ra

15 = CFS River Flow at Oakland

July 11, 2012

Print Info for file

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	25.80 (23 to 26.4)	Check Again at 0900
0900	25.10 (23 to 25.9)	Release at 1100 for 2 Hours
1100	-- (23 to 25.4)	--
1200	-- (23 to 25.3)	--
1400	-- (23 to 25.2)	--
1500	--	--

Tair °C	27.78	Air Temp, Elkins WV - Degree C	82	Air Temp, Elkins WV - Degree F
CCF	1	Cloud Cover Factor, Elkins WV	SUNNY	Cloud Cover, Elkins WV
T7	17.60	River Temp Sang Run @700		
T9	18.00	River Temp Sang Run @900		
T11	--	River Temp Sang Run @1100		
T12	--	River Temp Sang Run @1200		
T14	--	River Temp Sang Run @1400		
T15	--	River Temp Sang Run @1500		
Q	15.00	River Flow at Oakland		

R. McKenna 7/11/12

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

12 = CFS River Flow at Oakland

July 12, 2012

Simulate a Ra

Print Info for file

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	24.60 (23 to 26.4)	Check Again at 0900
0900	24.18 (23 to 25.9)	Check Again at 1100
1100	25.15 (23 to 25.4)	Check Again at 1200
1200	24.92 (23 to 25.3)	Check Again at 1400
1400	25.09 (23 to 25.2)	Check Again at 1500
1500	24.97	Check Again Tomorrow at 0700

Tair °C	29.44	Air Temp, Elkins WV - Degree C	85	Air Temp, Elkins WV - Degree F
CCF	100	Cloud Cover Factor, Elkins WV	TSTRMS	Cloud Cover, Elkins WV
T7	18.00	River Temp Sang Run @700		
T9	18.00	River Temp Sang Run @900		
T11	19.80	River Temp Sang Run @1100		
T12	20.70	River Temp Sang Run @1200		
T14	22.80	River Temp Sang Run @1400		
T15	23.60	River Temp Sang Run @1500		
Q	12.00	River Flow at Oakland		

R. McKenna 7/12/12

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

10 = CFS River Flow at Oakland

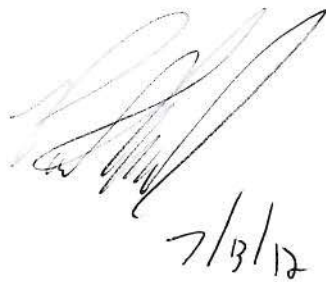
July 13, 2012

Simulate a Ra

Print Info for file

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	23.37 (23 to 26.4)	Check Again at 0900
0900	22.98 (23 to 25.9)	Check Again at 1100
1100	22.28 (23 to 25.4)	Check Again at 1200
1200	22.01 (23 to 25.3)	Check Again at 1400
1400	20.69 (23 to 25.2)	Check Again at 1500
1500	20.55	Check Again Tomorrow at 0700

Tair °C	22.78	Air Temp, Elkins WV - Degree C	73	Air Temp, Elkins WV - Degree F
CCF	64	Cloud Cover Factor, Elkins WV	SHWRS	Cloud Cover, Elkins WV
T7	18.70	River Temp Sang Run @700		
T9	18.40	River Temp Sang Run @900		
T11	18.90	River Temp Sang Run @1100		
T12	19.20	River Temp Sang Run @1200		
T14	19.40	River Temp Sang Run @1400		
T15	19.60	River Temp Sang Run @1500		
Q	10.00	River Flow at Oakland		



7/13/12

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

Simulate a Ra

12 = CFS River Flow at Oakland

July 14, 2012

Print Info for file

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	23.58 (23 to 26.4)	Check Again at 0900
0900	23.53 (23 to 25.9)	Check Again at 1100
1100	-- (23 to 25.4)	Input 1100 SANG RUN Temp
1200	-- (23 to 25.3)	Input 1100 SANG RUN Temp
1400	-- (23 to 25.2)	Input 1100 SANG RUN Temp
1500	--	Input 1100 SANG RUN Temp

Tair °C	27.22	Air Temp, Elkins WV - Degree C	81	Air Temp, Elkins WV - Degree F
CCF	100	Cloud Cover Factor, Elkins WV	TSTRMS	Cloud Cover, Elkins WV
T7	17.10	River Temp Sang Run @700		
T9	17.40	River Temp Sang Run @900		
T11	--	River Temp Sang Run @1100		
T12	--	River Temp Sang Run @1200		
T14	--	River Temp Sang Run @1400		
T15	--	River Temp Sang Run @1500		
Q	12.00	River Flow at Oakland		

Whitewater Release at 1100

[Handwritten signature]

4/14/12
7

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

16 = CFS River Flow at Oakland

July 15, 2012

Simulate a Ra

Print Info for file

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	25.06 (23 to 26.4)	Check Again at 0900
0900	24.84 (23 to 25.9)	Check Again at 1100
1100	25.39 (23 to 25.4)	Check Again at 1200
1200	25.75 (23 to 25.3)	Release ASAP - not later than 1230 for 1 hour
1400	-- (23 to 25.2)	--
1500	--	--

Run from
12 - 1300
Stu

Tair °C	28.89	Air Temp, Elkins WV - Degree C	84	Air Temp, Elkins WV - Degree F
CCF	100	Cloud Cover Factor, Elkins WV	RAIN	Cloud Cover, Elkins WV
T7	19.90	River Temp Sang Run @700		
T9	19.90	River Temp Sang Run @900		
T11	21.20	River Temp Sang Run @1100		
T12	22.40	River Temp Sang Run @1200		
T14	--	River Temp Sang Run @1400		
T15	--	River Temp Sang Run @1500		
Q	16.00	River Flow at Oakland		

John Ryznar
 Ran for 1 hr for temp release
 7/15/12

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

45 = CFS River Flow at Oakland

July 16, 2012

Simulate a Ra

Print Info for file

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	25.92 (23 to 26.4)	Check Again at 0900
0900	26.07 (23 to 25.9)	Release at 1100 for 2 Hours
1100	-- (23 to 25.4)	--
1200	-- (23 to 25.3)	--
1400	-- (23 to 25.2)	--
1500	--	--

St L H

Tair °C	29.44	Air Temp, Elkins WV - Degree C	85	Air Temp, Elkins WV - Degree F
CCF	36	Cloud Cover Factor, Elkins WV	PTSUNY	Cloud Cover, Elkins WV
T7	20.10	River Temp Sang Run @700		
T9	20.30	River Temp Sang Run @900		
T11	--	River Temp Sang Run @1100		
T12	--	River Temp Sang Run @1200		
T14	--	River Temp Sang Run @1400		
T15	--	River Temp Sang Run @1500		
Q	45.00	River Flow at Oakland		

Prof. C. Byrnes 7-16-12

Temp Release from 11-1300 -

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

Simulate a Ra

35 = CFS River Flow at Oakland

July 17, 2012

Print Info for file

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	27.71 (23 to 26.4)	Release at 1100 for 2 Hours — <i>Shutts</i>
0900	-- (23 to 25.9)	--
1100	-- (23 to 25.4)	--
1200	-- (23 to 25.3)	--
1400	-- (23 to 25.2)	--
1500	--	--

Tair °C	31.11	Air Temp, Elkins WV - Degree C	88	Air Temp, Elkins WV - Degree F
CCF	9	Cloud Cover Factor, Elkins WV	MOSUNNY	Cloud Cover, Elkins WV
T7	21.10	River Temp Sang Run @700		
T9	--	River Temp Sang Run @900		
T11	--	River Temp Sang Run @1100		
T12	--	River Temp Sang Run @1200		
T14	--	River Temp Sang Run @1400		
T15	--	River Temp Sang Run @1500		
Q	35.00	River Flow at Oakland		

John Ryba

7-17-12
Release on for temp @ 11-13 620cfs

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

18 = CFS River Flow at Oakland

July 18, 2012

Simulate a Ra

Print Info for file

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	26.46 (23 to 26.4)	Release at 1100 for 2 Hours
0900	-- (23 to 25.9)	--
1100	-- (23 to 25.4)	--
1200	-- (23 to 25.3)	--
1400	-- (23 to 25.2)	--
1500	--	--

Tair °C	31.67	Air Temp, Elkins WV - Degree C	89	Air Temp, Elkins WV - Degree F
CCF	100	Cloud Cover Factor, Elkins WV	TSTRMS	Cloud Cover, Elkins WV
T7	21.40	River Temp Sang Run @700		
T9	--	River Temp Sang Run @900		
T11	--	River Temp Sang Run @1100		
T12	--	River Temp Sang Run @1200		
T14	--	River Temp Sang Run @1400		
T15	--	River Temp Sang Run @1500		
Q	18.00	River Flow at Oakland		

[Handwritten Signature] 7/18/12

2hr release @ 11-13

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

15 = CFS River Flow at Oakland

July 19, 2012

Simulate a Ra

Print Info for file

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	26.65 (23 to 26.4)	Release at 1100 for 2 Hours
0900	-- (23 to 25.9)	--
1100	-- (23 to 25.4)	--
1200	-- (23 to 25.3)	--
1400	-- (23 to 25.2)	--
1500	--	--

Tair °C	27.78	Air Temp, Elkins WV - Degree C	82	Air Temp, Elkins WV - Degree F
CCF	1	Cloud Cover Factor, Elkins WV	SUNNY	Cloud Cover, Elkins WV
T7	20.10	River Temp Sang Run @700		
T9	--	River Temp Sang Run @900		
T11	--	River Temp Sang Run @1100		
T12	--	River Temp Sang Run @1200		
T14	--	River Temp Sang Run @1400		
T15	--	River Temp Sang Run @1500		
Q	15.00	River Flow at Oakland		

R. McNamee 7/19/12

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

20 = CFS River Flow at Oakland

July 20, 2012

Simulate a Ra

Print Info for file

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	24.12 (23 to 26.4)	Check Again at 0900
0900	23.82 (23 to 25.9)	Check Again at 1100
1100	23.29 (23 to 25.4)	Check Again at 1200
1200	23.04 (23 to 25.3)	Check Again at 1400
1400	22.44 (23 to 25.2)	Check Again at 1500
1500	22.30	Check Again Tomorrow at 0700 <i>re</i>

Tair °C	25.56	Air Temp, Elkins WV - Degree C	78	Air Temp, Elkins WV - Degree F
CCF	100	Cloud Cover Factor, Elkins WV	TSTRMS	Cloud Cover, Elkins WV
T7	20.30	River Temp Sang Run @700		
T9	20.10	River Temp Sang Run @900		
T11	20.40	River Temp Sang Run @1100		
T12	20.60	River Temp Sang Run @1200		
T14	21.10	River Temp Sang Run @1400		
T15	21.40	River Temp Sang Run @1500		
Q	20.00	River Flow at Oakland		

R. McKenna 7/20/12

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

50 = CFS River Flow at Oakland

July 21, 2012

Simulate a Ra

Print Info for file

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	22.73 (23 to 26.4)	Check Again at 0900
0900	-- (23 to 25.9)	Input 0900 SANG RUN Temp
1100	-- (23 to 25.4)	Input 0900 SANG RUN Temp
1200	-- (23 to 25.3)	Input 0900 SANG RUN Temp
1400	-- (23 to 25.2)	Input 0900 SANG RUN Temp
1500	--	Input 0900 SANG RUN Temp

Tair °C	24.44	Air Temp, Elkins WV - Degree C	76	Air Temp, Elkins WV - Degree F
CCF	100	Cloud Cover Factor, Elkins WV	TSTRMS	Cloud Cover, Elkins WV
T7	19.60	River Temp Sang Run @700		
T9	--	River Temp Sang Run @900		
T11	--	River Temp Sang Run @1100		
T12	--	River Temp Sang Run @1200		
T14	--	River Temp Sang Run @1400		
T15	--	River Temp Sang Run @1500		
Q	50.00	River Flow at Oakland		

were scheduled for today
B. McKenna 7/21/12

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

38 = CFS River Flow at Oakland

July 22, 2012

Simulate a Ra

Print Info for file

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	26.60 (23 to 26.4)	Release at 1100 for 2 Hours JCG
0900	-- (23 to 25.9)	--
1100	-- (23 to 25.4)	--
1200	-- (23 to 25.3)	--
1400	-- (23 to 25.2)	--
1500	--	--

Tair °C	28.89	Air Temp, Elkins WV - Degree C	84	Air Temp, Elkins WV - Degree F
CCF	9	Cloud Cover Factor, Elkins WV	MOSUNNY	Cloud Cover, Elkins WV
T7	20.00	River Temp Sang Run @700		
T9	--	River Temp Sang Run @900		
T11	--	River Temp Sang Run @1100		
T12	--	River Temp Sang Run @1200		
T14	--	River Temp Sang Run @1400		
T15	--	River Temp Sang Run @1500		
Q	38.00	River Flow at Oakland		

R. McKenna 7/22/12

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

21 = CFS River Flow at Oakland

July 23, 2012

Simulate a Ra

Print Info for file

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	25.35 (23 to 26.4)	Check Again at 0900
0900	25.24 (23 to 25.9)	Check Again at 1100
1100	24.86 (23 to 25.4)	Check Again at 1200
1200	24.78 (23 to 25.3)	Check Again at 1400
1400	24.23 (23 to 25.2)	Check Again at 1500
1500	23.76	Check Again Tomorrow at 0700

No Release Shultz

Tair °C	27.78	Air Temp, Elkins WV - Degree C	82	Air Temp, Elkins WV - Degree F
CCF	64	Cloud Cover Factor, Elkins WV	MOCLDY	Cloud Cover, Elkins WV
T7	19.80	River Temp Sang Run @700		
T9	19.80	River Temp Sang Run @900		
T11	20.70	River Temp Sang Run @1100		
T12	21.40	River Temp Sang Run @1200		
T14	22.60	River Temp Sang Run @1400		
T15	22.80	River Temp Sang Run @1500		
Q	21.00	River Flow at Oakland		

R. McKenna

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

16 = CFS River Flow at Oakland

July 24, 2012

Simulate a Ra

Print Info for file

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	25.59 (23 to 26.4)	Check Again at 0900
0900	25.90 (23 to 25.9)	Release at 1100 for 2 Hours
1100	-- (23 to 25.4)	--
1200	-- (23 to 25.3)	--
1400	-- (23 to 25.2)	--
1500	--	--

shill

Tair °C	27.78	Air Temp, Elkins WV - Degree C	82	Air Temp, Elkins WV - Degree F
CCF	64	Cloud Cover Factor, Elkins WV	MOCLDY	Cloud Cover, Elkins WV
T7	20.50	River Temp Sang Run @700		
T9	20.80	River Temp Sang Run @900		
T11	--	River Temp Sang Run @1100		
T12	--	River Temp Sang Run @1200		
T14	--	River Temp Sang Run @1400		
T15	--	River Temp Sang Run @1500		
Q	16.00	River Flow at Oakland		

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

17 = CFS River Flow at Oakland

July 25, 2012

Simulate a Ra

Print Info for file

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	24.98 (23 to 26.4)	Check Again at 0900
0900	25.81 (23 to 25.9)	Check Again at 1100
1100	25.36 (23 to 25.4)	Check Again at 1200
1200	25.70 (23 to 25.3)	Release ASAP - not later than 1230 for 1 hour
1400	-- (23 to 25.2)	--
1500	--	--

Tair °C	30.00	Air Temp, Elkins WV - Degree C	86	Air Temp, Elkins WV - Degree F
CCF	100	Cloud Cover Factor, Elkins WV	TSTRMS	Cloud Cover, Elkins WV
T7	18.60	River Temp Sang Run @700		
T9	19.60	River Temp Sang Run @900		
T11	20.80	River Temp Sang Run @1100		
T12	22.00	River Temp Sang Run @1200		
T14	--	River Temp Sang Run @1400		
T15	--	River Temp Sang Run @1500		
Q	17.00	River Flow at Oakland		

John Elkins 7/25

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

41 = CFS River Flow at Oakland

July 26, 2012

Simulate a Ra

Print Info for file

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	28.30 (23 to 26.4)	Release at 1100 for 2 Hours
0900	-- (23 to 25.9)	--
1100	-- (23 to 25.4)	--
1200	-- (23 to 25.3)	--
1400	-- (23 to 25.2)	--
1500	--	--

Tair °C	33.89	Air Temp, Elkins WV - Degree C	93	Air Temp, Elkins WV - Degree F
CCF	9	Cloud Cover Factor, Elkins WV	MOSUNNY	Cloud Cover, Elkins WV
T7	20.90	River Temp Sang Run @700		
T9	--	River Temp Sang Run @900		
T11	--	River Temp Sang Run @1100		
T12	--	River Temp Sang Run @1200		
T14	--	River Temp Sang Run @1400		
T15	--	River Temp Sang Run @1500		
Q	41.00	River Flow at Oakland		

John Smith 7/26

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

36 = CFS River Flow at Oakland

July 27, 2012

Simulate a Ra

Print Info for file

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	22.28 (23 to 26.4)	#VALUE!
0900	22.20 (23 to 25.9)	#VALUE!
1100	-- (23 to 25.4)	#VALUE!
1200	-- (23 to 25.3)	#VALUE!
1400	-- (23 to 25.2)	#VALUE!
1500	--	#VALUE!

Tair °C	19.44	Air Temp, Elkins WV - Degree C	67	Air Temp, Elkins WV - Degree F
CCF	100	Cloud Cover Factor, Elkins WV	RAIN	Cloud Cover, Elkins WV
T7	21.40	River Temp Sang Run @700		
T9	21.10	River Temp Sang Run @900		
T11	--	River Temp Sang Run @1100		
T12	--	River Temp Sang Run @1200		
T14	--	River Temp Sang Run @1400		
T15	--	River Temp Sang Run @1500		
Q	36.00	River Flow at Oakland		

WWR @ 11-14



7/27

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

Simulate a Ra

58 = CFS River Flow at Oakland

July 28, 2012

Print Info for file

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	20.92 (23 to 26.4)	Check Again at 0900
0900	21.26 (23 to 25.9)	Check Again at 1100
1100	-- (23 to 25.4)	Input 1100 SANG RUN Temp
1200	-- (23 to 25.3)	Input 1100 SANG RUN Temp
1400	-- (23 to 25.2)	Input 1100 SANG RUN Temp
1500	--	Input 1100 SANG RUN Temp

Tair °C	18.89	Air Temp, Elkins WV - Degree C	66	Air Temp, Elkins WV - Degree F
CCF	100	Cloud Cover Factor, Elkins WV	TSTRMS	Cloud Cover, Elkins WV
T7	20.50	River Temp Sang Run @700		
T9	20.60	River Temp Sang Run @900		
T11	--	River Temp Sang Run @1100		
T12	--	River Temp Sang Run @1200		
T14	--	River Temp Sang Run @1400		
T15	--	River Temp Sang Run @1500		
Q	58.00	River Flow at Oakland		

WWR 10:00 - 16:00
R. McKenna 7/28/12

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

29 = CFS River Flow at Oakland

July 29, 2012

Simulate a Ra

Print Info for file

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	25.76 (23 to 26.4)	Check Again at 0900
0900	25.81 (23 to 25.9)	Check Again at 1100
1100	25.40 (23 to 25.4)	Release at 1230 for 2 Hours
1200	-- (23 to 25.3)	--
1400	-- (23 to 25.2)	--
1500	--	--

Tair °C	26.67	Air Temp, Elkins WV - Degree C	80	Air Temp, Elkins WV - Degree F
CCF	36	Cloud Cover Factor, Elkins WV	PTSUNY	Cloud Cover, Elkins WV
T7	20.50	River Temp Sang Run @700		
T9	20.50	River Temp Sang Run @900		
T11	21.50	River Temp Sang Run @1100		
T12	--	River Temp Sang Run @1200		
T14	--	River Temp Sang Run @1400		
T15	--	River Temp Sang Run @1500		
Q	29.00	River Flow at Oakland		

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

20 = CFS River Flow at Oakland

July 30, 2012

Simulate a Ra

Print Info for file

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	26.17 (23 to 26.4)	Check Again at 0900
0900	25.16 (23 to 25.9)	Release at 1100 for 2 Hours
1100	-- (23 to 25.4)	--
1200	-- (23 to 25.3)	--
1400	-- (23 to 25.2)	--
1500	--	--

Tair °C	28.33	Air Temp, Elkins WV - Degree C	83	Air Temp, Elkins WV - Degree F
CCF	9	Cloud Cover Factor, Elkins WV	MOSUNNY	Cloud Cover, Elkins WV
T7	18.60	River Temp Sang Run @700		
T9	18.70	River Temp Sang Run @900		
T11	--	River Temp Sang Run @1100		
T12	--	River Temp Sang Run @1200		
T14	--	River Temp Sang Run @1400		
T15	--	River Temp Sang Run @1500		
Q	20.00	River Flow at Oakland		

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

15 = CFS River Flow at Oakland

July 31, 2012

Simulate a Ra

Print Info for file

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	25.72 (23 to 26.4)	Check Again at 0900
0900	25.74 (23 to 25.9)	Check Again at 1100
1100	26.08 (23 to 25.4)	Release at 1230 for 2 Hours
1200	-- (23 to 25.3)	--
1400	-- (23 to 25.2)	--
1500	--	--

Tair °C	29.44	Air Temp, Elkins WV - Degree C	85	Air Temp, Elkins WV - Degree F
CCF	64	Cloud Cover Factor, Elkins WV	SHWRS	Cloud Cover, Elkins WV
T7	19.30	River Temp Sang Run @700		
T9	19.50	River Temp Sang Run @900		
T11	21.10	River Temp Sang Run @1100		
T12	--	River Temp Sang Run @1200		
T14	--	River Temp Sang Run @1400		
T15	--	River Temp Sang Run @1500		
Q	15.00	River Flow at Oakland		

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

184 = CFS River Flow at Oakland

August 1, 2012

Simulate a Ra

Print Info for file

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	23.72 (23 to 26.4)	Temperature Plan not Required Today - Flow Exceeds 150 CFS <i>JCE 8/1</i>
0900	-- (23 to 25.9)	
1100	-- (23 to 25.4)	
1200	-- (23 to 25.3)	
1400	-- (23 to 25.2)	
1500	--	

Tair °C	28.89	Air Temp, Elkins WV - Degree C	84	Air Temp, Elkins WV - Degree F
CCF	9	Cloud Cover Factor, Elkins WV	MOSUNNY	Cloud Cover, Elkins WV
T7	19.10	River Temp Sang Run @700		
T9	--	River Temp Sang Run @900		
T11	--	River Temp Sang Run @1100		
T12	--	River Temp Sang Run @1200		
T14	--	River Temp Sang Run @1400		
T15	--	River Temp Sang Run @1500		
Q	184.00	River Flow at Oakland		

R McKenna 8/01/12

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

56 = CFS River Flow at Oakland

August 2, 2012

Simulate a Ra

Print Info for file

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	25.43 (23 to 26.4)	Release at 1100 for 2 Hours <i>JCE 8/2</i>
0900	-- (23 to 25.9)	--
1100	-- (23 to 25.4)	--
1200	-- (23 to 25.3)	--
1400	-- (23 to 25.2)	--
1500	--	--

Tair °C	30.00	Air Temp, Elkins WV - Degree C	86	Air Temp, Elkins WV - Degree F
CCF	1	Cloud Cover Factor, Elkins WV	SUNNY	Cloud Cover, Elkins WV
T7	20.40	River Temp Sang Run @700		
T9	--	River Temp Sang Run @900		
T11	--	River Temp Sang Run @1100		
T12	--	River Temp Sang Run @1200		
T14	--	River Temp Sang Run @1400		
T15	--	River Temp Sang Run @1500		
Q	56.00	River Flow at Oakland		

John R. Ryan
 Release @ 11 for two hours

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

33 = CFS River Flow at Oakland

August 3, 2012

Simulate a Ra

Print Info for file

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	26.87 (23 to 26.4)	Release at 1100 for 2 Hours
0900	-- (23 to 25.9)	
1100	-- (23 to 25.4)	
1200	-- (23 to 25.3)	
1400	-- (23 to 25.2)	
1500	--	

Tair °C	31.11	Air Temp, Elkins WV - Degree C	88	Air Temp, Elkins WV - Degree F
CCF	36	Cloud Cover Factor, Elkins WV	HAZE	Cloud Cover, Elkins WV
T7	19.90	River Temp Sang Run @700		
T9	--	River Temp Sang Run @900		
T11	--	River Temp Sang Run @1100		
T12	--	River Temp Sang Run @1200		
T14	--	River Temp Sang Run @1400		
T15	--	River Temp Sang Run @1500		
Q	33.00	River Flow at Oakland		

Janet Byrd 8/3/12
 Release for 2 hrs 11-13

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

Simulate a Ra

24 = CFS River Flow at Oakland

August 4, 2012

Print Info for file

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	25.24 (23 to 26.4)	Check Again at 0900
0900	-- (23 to 25.9)	Input 0900 SANG RUN Temp
1100	-- (23 to 25.4)	Input 0900 SANG RUN Temp
1200	-- (23 to 25.3)	Input 0900 SANG RUN Temp
1400	-- (23 to 25.2)	Input 0900 SANG RUN Temp
1500	--	Input 0900 SANG RUN Temp

Tair °C	29.44	Air Temp, Elkins WV - Degree C	85	Air Temp, Elkins WV - Degree F
CCF	100	Cloud Cover Factor, Elkins WV	TSTRMS	Cloud Cover, Elkins WV
T7	19.90	River Temp Sang Run @700		
T9	--	River Temp Sang Run @900		
T11	--	River Temp Sang Run @1100		
T12	--	River Temp Sang Run @1200		
T14	--	River Temp Sang Run @1400		
T15	--	River Temp Sang Run @1500		
Q	24.00	River Flow at Oakland		

Whitewater release - Temp Protocol not required

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

19 = CFS River Flow at Oakland


August 5, 2012

Simulate a Ra

Print Info for file

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	24.98 (23 to 26.4)	Check Again at 0900
0900	24.93 (23 to 25.9)	Check Again at 1100
1100	25.48 (23 to 25.4)	Release at 1230 for 2 Hours
1200	-- (23 to 25.3)	--
1400	-- (23 to 25.2)	--
1500	--	--

Tair °C	28.33	Air Temp, Elkins WV - Degree C	83	Air Temp, Elkins WV - Degree F
CCF	100	Cloud Cover Factor, Elkins WV	TSTRMS	Cloud Cover, Elkins WV
T7	20.20	River Temp Sang Run @700		
T9	20.30	River Temp Sang Run @900		
T11	21.60	River Temp Sang Run @1100		
T12	--	River Temp Sang Run @1200		
T14	--	River Temp Sang Run @1400		
T15	--	River Temp Sang Run @1500		
Q	19.00	River Flow at Oakland		

John Pytko Temp Release for 2hr
 8/5/12


YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

52 = CFS River Flow at Oakland

August 6, 2012

Simulate a Ra

Print Info for file

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	23.24 (23 to 26.4)	#VALUE!
0900	23.55 (23 to 25.9)	#VALUE!
1100	-- (23 to 25.4)	#VALUE!
1200	-- (23 to 25.3)	#VALUE!
1400	-- (23 to 25.2)	#VALUE!
1500	--	#VALUE!

Tair °C	25.56	Air Temp, Elkins WV - Degree C	78	Air Temp, Elkins WV - Degree F
CCF	100	Cloud Cover Factor, Elkins WV	RAIN	Cloud Cover, Elkins WV
T7	20.30	River Temp Sang Run @700		
T9	20.60	River Temp Sang Run @900		
T11	--	River Temp Sang Run @1100		
T12	--	River Temp Sang Run @1200		
T14	--	River Temp Sang Run @1400		
T15	--	River Temp Sang Run @1500		
Q	52.00	River Flow at Oakland		

w/ lite water release @ 11AM




8/6/12

WWR 11-14

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

115 = CFS River Flow at Oakland

August 7, 2012

Simulate a Ra

Print Info for file

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	23.42 (23 to 26.4)	Check Again at 0900
0900	22.56 (23 to 25.9)	Check Again at 1100
1100	25.53 (23 to 25.4)	Release at 1230 for 2 Hours
1200	-- (23 to 25.3)	--
1400	-- (23 to 25.2)	--
1500	--	--

Tair °C	28.89	Air Temp, Elkins WV - Degree C	84	Air Temp, Elkins WV - Degree F
CCF	64	Cloud Cover Factor, Elkins WV	SHWRS	Cloud Cover, Elkins WV
T7	21.30	River Temp Sang Run @700		
T9	21.10	River Temp Sang Run @900		
T11	21.80	River Temp Sang Run @1100		
T12	--	River Temp Sang Run @1200		
T14	--	River Temp Sang Run @1400		
T15	--	River Temp Sang Run @1500		
Q	115.00	River Flow at Oakland		

R. McKenna
8/07/12

[Signature]
8/7/12

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

45 = CFS River Flow at Oakland

August 8, 2012

Simulate a Ra

Print Info for file

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	25.37 (23 to 26.4)	Check Again at 0900
0900	24.96 (23 to 25.9)	Check Again at 1100
1100	25.69 (23 to 25.4)	Release at 1230 for 2 Hours JCE 8/8
1200	-- (23 to 25.3)	--
1400	-- (23 to 25.2)	--
1500	--	--

Tair °C	28.89	Air Temp, Elkins WV - Degree C	84	Air Temp, Elkins WV - Degree F
CCF	36	Cloud Cover Factor, Elkins WV	PTCLDY	Cloud Cover, Elkins WV
T7	19.00	River Temp Sang Run @700		
T9	18.80	River Temp Sang Run @900		
T11	20.30	River Temp Sang Run @1100		
T12	--	River Temp Sang Run @1200		
T14	--	River Temp Sang Run @1400		
T15	--	River Temp Sang Run @1500		
Q	45.00	River Flow at Oakland		

R. McKenna 8/08/12

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

32 = CFS River Flow at Oakland

August 9, 2012

Simulate a Ra

Print Info for file

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	26.41 (23 to 26.4)	Release at 1100 for 2 Hours <i>JCE 8/9</i>
0900	-- (23 to 25.9)	--
1100	-- (23 to 25.4)	--
1200	-- (23 to 25.3)	--
1400	-- (23 to 25.2)	--
1500	--	--

Tair °C	29.44	Air Temp, Elkins WV - Degree C	85	Air Temp, Elkins WV - Degree F
CCF	36	Cloud Cover Factor, Elkins WV	PTSUNY	Cloud Cover, Elkins WV
T7	20.00	River Temp Sang Run @700		
T9	--	River Temp Sang Run @900		
T11	--	River Temp Sang Run @1100		
T12	--	River Temp Sang Run @1200		
T14	--	River Temp Sang Run @1400		
T15	--	River Temp Sang Run @1500		
Q	32.00	River Flow at Oakland		

R. McKenna 8/09/12

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

30 = CFS River Flow at Oakland

August 10, 2012

Simulate a Ra

Print Info for file

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	23.55 (23 to 26.4)	Check Again at 0900
0900	-- (23 to 25.9)	Input 0900 SANG RUN Temp
1100	-- (23 to 25.4)	Input 0900 SANG RUN Temp
1200	-- (23 to 25.3)	Input 0900 SANG RUN Temp
1400	-- (23 to 25.2)	Input 0900 SANG RUN Temp
1500	--	Input 0900 SANG RUN Temp

wur @ 11 AM for 3 hours shut

Tair °C	23.89	Air Temp, Elkins WV - Degree C	75	Air Temp, Elkins WV - Degree F
CCF	100	Cloud Cover Factor, Elkins WV	CLOUDY	Cloud Cover, Elkins WV
T7	20.20	River Temp Sang Run @700		
T9	--	River Temp Sang Run @900		
T11	--	River Temp Sang Run @1100		
T12	--	River Temp Sang Run @1200		
T14	--	River Temp Sang Run @1400		
T15	--	River Temp Sang Run @1500		
Q	30.00	River Flow at Oakland		

R. McKenna 8/10/12

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

53 = CFS River Flow at Oakland

August 11, 2012

Simulate a Ra

Print Info for file

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	22.82 (23 to 26.4)	Check Again at 0900
0900	-- (23 to 25.9)	Input 0900 SANG RUN Temp
1100	-- (23 to 25.4)	Input 0900 SANG RUN Temp
1200	-- (23 to 25.3)	Input 0900 SANG RUN Temp
1400	-- (23 to 25.2)	Input 0900 SANG RUN Temp
1500	--	Input 0900 SANG RUN Temp

*whk at 11 am
sh...*

Tair °C	22.78	Air Temp, Elkins WV - Degree C	73	Air Temp, Elkins WV - Degree F
CCF	64	Cloud Cover Factor, Elkins WV	SHWRS	Cloud Cover, Elkins WV
T7	19.80	River Temp Sang Run @700		
T9	--	River Temp Sang Run @900		
T11	--	River Temp Sang Run @1100		
T12	--	River Temp Sang Run @1200		
T14	--	River Temp Sang Run @1400		
T15	--	River Temp Sang Run @1500		
Q	53.00	River Flow at Oakland		

[Handwritten Signature]
8/12/12

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

29 = CFS River Flow at Oakland

August 12, 2012

Simulate a Ra

Print Info for file

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	23.93 (23 to 26.4)	Check Again at 0900
0900	24.08 (23 to 25.9)	Check Again at 1100
1100	23.66 (23 to 25.4)	Check Again at 1200
1200	23.72 (23 to 25.3)	Check Again at 1400
1400	22.01 (23 to 25.2)	Check Again at 1500
1500	21.43	Check Again Tomorrow at 0700

NO release
[Signature]

Tair °C	22.22	Air Temp, Elkins WV - Degree C
CCF	9	Cloud Cover Factor, Elkins WV
T7	17.80	River Temp Sang Run @700
T9	17.90	River Temp Sang Run @900
T11	19.30	River Temp Sang Run @1100
T12	20.30	River Temp Sang Run @1200
T14	20.90	River Temp Sang Run @1400
T15	20.70	River Temp Sang Run @1500
Q	29.00	River Flow at Oakland

72
MOSUNNY

Air Temp, Elkins WV - Degree F
Cloud Cover, Elkins WV

[Signature]
9/12/12 NO release

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

21 = CFS River Flow at Oakland

August 13, 2012

Simulate a Ra

Print Info for file

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	24.51 (23 to 26.4)	Check Again at 0900
0900	24.22 (23 to 25.9)	Check Again at 1100
1100	23.73 (23 to 25.4)	Check Again at 1200
1200	24.00 (23 to 25.3)	Check Again at 1400
1400	24.36 (23 to 25.2)	Check Again at 1500
1500	26.04	Release ASAP - not later than 1530 for 1 hour <i>K</i>

Tair °C	26.67	Air Temp, Elkins WV - Degree C	80	Air Temp, Elkins WV - Degree F
CCF	36	Cloud Cover Factor, Elkins WV	PTSUNY	Cloud Cover, Elkins WV
T7	16.80	River Temp Sang Run @700		
T9	16.80	River Temp Sang Run @900		
T11	18.10	River Temp Sang Run @1100		
T12	19.40	River Temp Sang Run @1200		
T14	21.90	River Temp Sang Run @1400		
T15	24.30	River Temp Sang Run @1500		
Q	21.00	River Flow at Oakland		

[Handwritten Signature] 8/13/12
 Temp release for 1 hr 1530 - 1630

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

18 = CFS River Flow at Oakland

August 14, 2012

Simulate a Ra

Print Info for file

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	23.56 (23 to 26.4)	Check Again at 0900
0900	23.64 (23 to 25.9)	Check Again at 1100
1100	23.58 (23 to 25.4)	Check Again at 1200
1200	23.71 (23 to 25.3)	Check Again at 1400
1400	24.79 (23 to 25.2)	Check Again at 1500
1500	24.78	Check Again Tomorrow at 0700 ←

Tair °C	26.11	Air Temp, Elkins WV - Degree C	79	Air Temp, Elkins WV - Degree F
CCF	100	Cloud Cover Factor, Elkins WV	TSTRMS	Cloud Cover, Elkins WV
T7	18.10	River Temp Sang Run @700		
T9	18.40	River Temp Sang Run @900		
T11	19.50	River Temp Sang Run @1100		
T12	20.40	River Temp Sang Run @1200		
T14	22.70	River Temp Sang Run @1400		
T15	23.50	River Temp Sang Run @1500		
Q	18.00	River Flow at Oakland		

[Handwritten Signature]
8/14/12

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

17 = CFS River Flow at Oakland

August 15, 2012

Simulate a Ra

Print Info for file

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	23.54 (23 to 26.4)	Check Again at 0900
0900	23.39 (23 to 25.9)	Check Again at 1100
1100	23.28 (23 to 25.4)	Check Again at 1200
1200	23.37 (23 to 25.3)	Check Again at 1400
1400	22.79 (23 to 25.2)	Check Again at 1500
1500	23.64	Check Again Tomorrow at 0700

Tair °C	25.00	Air Temp, Elkins WV - Degree C
CCF	100	Cloud Cover Factor, Elkins WV
T7	19.10	River Temp Sang Run @700
T9	19.10	River Temp Sang Run @900
T11	19.90	River Temp Sang Run @1100
T12	20.60	River Temp Sang Run @1200
T14	21.40	River Temp Sang Run @1400
T15	22.60	River Temp Sang Run @1500
Q	17.00	River Flow at Oakland

77
TSTRMS

Air Temp, Elkins WV - Degree F
Cloud Cover, Elkins WV




8/15/12 no Temp Release Req.

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

16 = CFS River Flow at Oakland

August 16, 2012

Simulate a Ra

Print Info for file

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	25.56 (23 to 26.4)	Check Again at 0900
0900	25.13 (23 to 25.9)	Check Again at 1100
1100	24.44 (23 to 25.4)	Check Again at 1200
1200	24.43 (23 to 25.3)	Check Again at 1400
1400	23.89 (23 to 25.2)	Check Again at 1500
1500	24.18	Check Again Tomorrow at 0700

Tair °C	27.22	Air Temp, Elkins WV - Degree C	81	Air Temp, Elkins WV - Degree F
CCF	1	Cloud Cover Factor, Elkins WV	SUNNY	Cloud Cover, Elkins WV
T7	17.40	River Temp Sang Run @700		
T9	17.20	River Temp Sang Run @900		
T11	18.50	River Temp Sang Run @1100		
T12	19.60	River Temp Sang Run @1200		
T14	21.60	River Temp Sang Run @1400		
T15	22.70	River Temp Sang Run @1500		
Q	16.00	River Flow at Oakland		

R. McKen 8/16/12

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

14 = CFS River Flow at Oakland

August 17, 2012

Simulate a Ra

Print Info for file

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	23.98 (23 to 26.4)	Check Again at 0900
0900	23.44 (23 to 25.9)	Check Again at 1100
1100	-- (23 to 25.4)	Input 1100 SANG RUN Temp
1200	-- (23 to 25.3)	Input 1100 SANG RUN Temp
1400	-- (23 to 25.2)	Input 1100 SANG RUN Temp
1500	--	Input 1100 SANG RUN Temp

Tair °C	27.22	Air Temp, Elkins WV - Degree C	81	Air Temp, Elkins WV - Degree F
CCF	100	Cloud Cover Factor, Elkins WV	TSTRMS	Cloud Cover, Elkins WV
T7	18.30	River Temp Sang Run @700		
T9	18.10	River Temp Sang Run @900		
T11	--	River Temp Sang Run @1100		
T12	--	River Temp Sang Run @1200		
T14	--	River Temp Sang Run @1400		
T15	--	River Temp Sang Run @1500		
Q	14.00	River Flow at Oakland		

Whitewater Release scheduled 8/17

R. McKenna 8/17/12

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

Simulate a Ra

16 = CFS River Flow at Oakland

August 18, 2012

Print Info for file

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	22.60 (23 to 26.4)	Check Again at 0900
0900	-- (23 to 25.9)	Input 0900 SANG RUN Temp
1100	-- (23 to 25.4)	Input 0900 SANG RUN Temp
1200	-- (23 to 25.3)	Input 0900 SANG RUN Temp
1400	-- (23 to 25.2)	Input 0900 SANG RUN Temp
1500	--	Input 0900 SANG RUN Temp

Tair °C	23.89	Air Temp, Elkins WV - Degree C	75	Air Temp, Elkins WV - Degree F
CCF	100	Cloud Cover Factor, Elkins WV	CLOUDY	Cloud Cover, Elkins WV
T7	17.40	River Temp Sang Run @700	<i>Scheduled white water release per</i> <i>release per H</i>	
T9	--	River Temp Sang Run @900		
T11	--	River Temp Sang Run @1100		
T12	--	River Temp Sang Run @1200		
T14	--	River Temp Sang Run @1400		
T15	--	River Temp Sang Run @1500		
Q	16.00	River Flow at Oakland		

Q. McKenna 8/18/12

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

20 = CFS River Flow at Oakland

August 19, 2012

Simulate a Ra

Print Info for file

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	23.01 (23 to 26.4)	Check Again at 0900
0900	22.70 (23 to 25.9)	Check Again at 1100
1100	21.07 (23 to 25.4)	Check Again at 1200
1200	21.17 (23 to 25.3)	Check Again at 1400
1400	23.14 (23 to 25.2)	Check Again at 1500
1500	23.89	Check Again Tomorrow at 0700

Tair °C	23.33	Air Temp, Elkins WV - Degree C	74	Air Temp, Elkins WV - Degree F
CCF	64	Cloud Cover Factor, Elkins WV	SHWRS	Cloud Cover, Elkins WV
T7	17.10	River Temp Sang Run @700		
T9	17.00	River Temp Sang Run @900		
T11	17.10	River Temp Sang Run @1100		
T12	17.70	River Temp Sang Run @1200		
T14	20.50	River Temp Sang Run @1400		
T15	22.10	River Temp Sang Run @1500		
Q	20.00	River Flow at Oakland		

R. McKenna

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

16 = CFS River Flow at Oakland

August 20, 2012

Simulate a Ra

Print Info for file

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	22.95 (23 to 26.4)	#VALUE!
0900	22.60 (23 to 25.9)	#VALUE!
1100	-- (23 to 25.4)	#VALUE!
1200	-- (23 to 25.3)	#VALUE!
1400	-- (23 to 25.2)	#VALUE!
1500	--	#VALUE!

Tair °C	24.44	Air Temp, Elkins WV - Degree C	76	Air Temp, Elkins WV - Degree F
CCF	100	Cloud Cover Factor, Elkins WV	TSTRMS	Cloud Cover, Elkins WV
T7	17.90	River Temp Sang Run @700		
T9	17.80	River Temp Sang Run @900		
T11	--	River Temp Sang Run @1100		
T12	--	River Temp Sang Run @1200		
T14	--	River Temp Sang Run @1400		
T15	--	River Temp Sang Run @1500		
Q	16.00	River Flow at Oakland		

White Water Release @ 11-14
 R. McKenna 8/20/12

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

21 = CFS River Flow at Oakland

August 21, 2012

Simulate a Ra

Print Info for file

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	22.68 (23 to 26.4)	Check Again at 0900
0900	22.02 (23 to 25.9)	Check Again at 1100
1100	23.24 (23 to 25.4)	Check Again at 1200
1200	23.54 (23 to 25.3)	Check Again at 1400
1400	23.29 (23 to 25.2)	Check Again at 1500
1500	23.60	Check Again Tomorrow at 0700

Tair °C	24.44	Air Temp, Elkins WV - Degree C	76	Air Temp, Elkins WV - Degree F
CCF	100	Cloud Cover Factor, Elkins WV	TSTRMS	Cloud Cover, Elkins WV
T7	17.10	River Temp Sang Run @700		
T9	16.80	River Temp Sang Run @900		
T11	18.60	River Temp Sang Run @1100		
T12	19.90	River Temp Sang Run @1200		
T14	21.50	River Temp Sang Run @1400		
T15	22.40	River Temp Sang Run @1500		
Q	21.00	River Flow at Oakland		

Paul G. [Signature]
 8/21/12
 No Release Required

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

17 = CFS River Flow at Oakland

August 22, 2012

Simulate a Ra

Print Info for file

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	22.98 (23 to 26.4)	Check Again at 0900
0900	22.07 (23 to 25.9)	Check Again at 1100
1100	23.34 (23 to 25.4)	Check Again at 1200
1200	23.51 (23 to 25.3)	Check Again at 1400
1400	24.29 (23 to 25.2)	Check Again at 1500
1500	24.13	Check Again Tomorrow at 0700

Tair °C	26.11	Air Temp, Elkins WV - Degree C	79	Air Temp, Elkins WV - Degree F
CCF	100	Cloud Cover Factor, Elkins WV	TSTRMS	Cloud Cover, Elkins WV
T7	16.40	River Temp Sang Run @700		
T9	16.00	River Temp Sang Run @900		
T11	17.90	River Temp Sang Run @1100		
T12	19.20	River Temp Sang Run @1200		
T14	21.80	River Temp Sang Run @1400		
T15	22.60	River Temp Sang Run @1500		
Q	17.00	River Flow at Oakland		

John C. Ryan 8/22/12
 No Release Required

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

14 = CFS River Flow at Oakland

August 23, 2012

Simulate a Ra

Print Info for file

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	23.51 (23 to 26.4)	Check Again at 0900
0900	22.72 (23 to 25.9)	Check Again at 1100
1100	23.67 (23 to 25.4)	Check Again at 1200
1200	24.12 (23 to 25.3)	Check Again at 1400
1400	25.54 (23 to 25.2)	Release ASAP - not later than 1430 for 1 hour
1500	--	--



Tair °C	27.22	Air Temp, Elkins WV - Degree C	81	Air Temp, Elkins WV - Degree F
CCF	100	Cloud Cover Factor, Elkins WV	CLOUDY	Cloud Cover, Elkins WV
T7	16.90	River Temp Sang Run @700		
T9	16.60	River Temp Sang Run @900		
T11	18.30	River Temp Sang Run @1100		
T12	19.80	River Temp Sang Run @1200		
T14	22.90	River Temp Sang Run @1400		
T15	--	River Temp Sang Run @1500		
Q	14.00	River Flow at Oakland		



8/23/12

1 hr release @ 1416

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

12 = CFS River Flow at Oakland

August 24, 2012

Simulate a Ra

Print Info for file

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	23.97 (23 to 26.4)	Check Again at 0900
0900	23.28 (23 to 25.9)	Check Again at 1100
1100	23.75 (23 to 25.4)	Check Again at 1200
1200	23.96 (23 to 25.3)	Check Again at 1400
1400	20.75 (23 to 25.2)	Check Again at 1500
1500	22.29	Check Again Tomorrow at 0700

Tair °C	28.33	Air Temp, Elkins WV - Degree C	83	Air Temp, Elkins WV - Degree F
CCF	100	Cloud Cover Factor, Elkins WV	TSTRMS	Cloud Cover, Elkins WV
T7	17.20	River Temp Sang Run @700		
T9	17.00	River Temp Sang Run @900		
T11	18.40	River Temp Sang Run @1100		
T12	19.60	River Temp Sang Run @1200		
T14	19.20	River Temp Sang Run @1400		
T15	21.00	River Temp Sang Run @1500		
Q	12.00	River Flow at Oakland		

[Handwritten Signature]
8/24/12

No temp release required.

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

9.3 = CFS River Flow at Oakland

August 25, 2012

Simulate a Ra

Print Info for file

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	23.88 (23 to 26.4)	Check Again at 0900
0900	23.19 (23 to 25.9)	Check Again at 1100
1100	23.32 (23 to 25.4)	Check Again at 1200
1200	23.84 (23 to 25.3)	Check Again at 1400
1400	20.94 (23 to 25.2)	Check Again at 1500
1500	22.11	Check Again Tomorrow at 0700

Tair °C	27.22	Air Temp, Elkins WV - Degree C	81	Air Temp, Elkins WV - Degree F
CCF	100	Cloud Cover Factor, Elkins WV	TSTRMS	Cloud Cover, Elkins WV
T7	18.00	River Temp Sang Run @700		
T9	17.70	River Temp Sang Run @900		
T11	18.70	River Temp Sang Run @1100		
T12	20.00	River Temp Sang Run @1200		
T14	19.60	River Temp Sang Run @1400		
T15	21.00	River Temp Sang Run @1500		
Q	9.30	River Flow at Oakland		

8/25/12

~~HW~~ WHITEWATER RELEASE 11-14

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

8.7 = CFS River Flow at Oakland

August 26, 2012

Simulate a Ra

Print Info for file

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	24.15 (23 to 26.4)	Check Again at 0900
0900	24.31 (23 to 25.9)	Check Again at 1100
1100	23.78 (23 to 25.4)	Check Again at 1200
1200	24.19 (23 to 25.3)	Check Again at 1400
1400	24.12 (23 to 25.2)	Check Again at 1500
1500	23.94	Check Again Tomorrow at 0700

Tair °C	25.00	Air Temp, Elkins WV - Degree C	77	Air Temp, Elkins WV - Degree F
CCF	64	Cloud Cover Factor, Elkins WV	SHWRS	Cloud Cover, Elkins WV
T7	18.90	River Temp Sang Run @700		
T9	19.10	River Temp Sang Run @900		
T11	20.00	River Temp Sang Run @1100		
T12	21.10	River Temp Sang Run @1200		
T14	22.60	River Temp Sang Run @1400		
T15	23.00	River Temp Sang Run @1500		
Q	8.70	River Flow at Oakland		

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

8.7 = CFS River Flow at Oakland

August 27, 2012

Simulate a Ra

Print Info for file

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	24.78 (23 to 26.4)	Check Again at 0900
0900	24.03 (23 to 25.9)	Check Again at 1100
1100	24.93 (23 to 25.4)	Check Again at 1200
1200	24.88 (23 to 25.3)	Check Again at 1400
1400	25.11 (23 to 25.2)	Check Again at 1500
1500	25.15	Release ASAP - not later than 1530 for 1 hour

Tair °C	27.78	Air Temp, Elkins WV - Degree C	82	Air Temp, Elkins WV - Degree F
CCF	64	Cloud Cover Factor, Elkins WV	SHWRS	Cloud Cover, Elkins WV
T7	18.10	River Temp Sang Run @700		
T9	17.70	River Temp Sang Run @900		
T11	19.50	River Temp Sang Run @1100		
T12	20.60	River Temp Sang Run @1200		
T14	22.90	River Temp Sang Run @1400		
T15	23.80	River Temp Sang Run @1500		
Q	8.70	River Flow at Oakland		

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

Simulate a Ra

8.7 = CFS River Flow at Oakland

August 28, 2012

Print Info for file

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	24.68 (23 to 26.4)	Check Again at 0900
0900	24.71 (23 to 25.9)	Check Again at 1100
1100	24.70 (23 to 25.4)	Check Again at 1200
1200	25.20 (23 to 25.3)	Check Again at 1400
1400	26.32 (23 to 25.2)	Release ASAP - not later than 1430 for 1 hour
1500	--	--

Tair °C	26.11	Air Temp, Elkins WV - Degree C	79	Air Temp, Elkins WV - Degree F
CCF	64	Cloud Cover Factor, Elkins WV	SHWRS	Cloud Cover, Elkins WV
T7	19.40	River Temp Sang Run @700		
T9	19.50	River Temp Sang Run @900		
T11	20.70	River Temp Sang Run @1100		
T12	22.00	River Temp Sang Run @1200		
T14	23.80	River Temp Sang Run @1400		
T15	--	River Temp Sang Run @1500		
Q	8.70	River Flow at Oakland		

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

7.5 = CFS River Flow at Oakland

August 29, 2012

Simulate a Ra

Print Info for file

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	25.35 (23 to 26.4)	Check Again at 0900
0900	24.88 (23 to 25.9)	Check Again at 1100
1100	24.94 (23 to 25.4)	Check Again at 1200
1200	24.80 (23 to 25.3)	Check Again at 1400
1400	23.70 (23 to 25.2)	Check Again at 1500
1500	23.01	Check Again Tomorrow at 0700

Tair °C	27.22	Air Temp, Elkins WV - Degree C	81	Air Temp, Elkins WV - Degree F
CCF	1	Cloud Cover Factor, Elkins WV	SUNNY	Cloud Cover, Elkins WV
T7	16.80	River Temp Sang Run @700		
T9	16.60	River Temp Sang Run @900		
T11	18.50	River Temp Sang Run @1100		
T12	19.70	River Temp Sang Run @1200		
T14	21.50	River Temp Sang Run @1400		
T15	21.70	River Temp Sang Run @1500		
Q	7.50	River Flow at Oakland		

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

7 = CFS River Flow at Oakland

August 30, 2012

Simulate a Ra

Print Info for file

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	25.41 (23 to 26.4)	Check Again at 0900
0900	24.56 (23 to 25.9)	Check Again at 1100
1100	24.17 (23 to 25.4)	Check Again at 1200
1200	24.16 (23 to 25.3)	Check Again at 1400
1400	23.91 (23 to 25.2)	Check Again at 1500
1500	24.26	Check Again Tomorrow at 0700

Tair °C	28.33	Air Temp, Elkins WV - Degree C	83	Air Temp, Elkins WV - Degree F
CCF	1	Cloud Cover Factor, Elkins WV	SUNNY	Cloud Cover, Elkins WV
T7	15.90	River Temp Sang Run @700		
T9	15.50	River Temp Sang Run @900		
T11	17.10	River Temp Sang Run @1100		
T12	18.40	River Temp Sang Run @1200		
T14	21.00	River Temp Sang Run @1400		
T15	22.40	River Temp Sang Run @1500		
Q	7.00	River Flow at Oakland		

[Handwritten Signature] 8/30/12

No Release Required

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

7 = CFS River Flow at Oakland

August 31, 2012

Simulate a Ra

Print Info for file

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	25.97 (23 to 26.4)	Check Again at 0900
0900	24.91 (23 to 25.9)	Check Again at 1100
1100	24.87 (23 to 25.4)	Check Again at 1200
1200	24.83 (23 to 25.3)	Check Again at 1400
1400	24.70 (23 to 25.2)	Check Again at 1500
1500	24.65	Check Again Tomorrow at 0700

Tair °C	30.56	Air Temp, Elkins WV - Degree C	87	Air Temp, Elkins WV - Degree F
CCF	9	Cloud Cover Factor, Elkins WV	MOSUNNY	Cloud Cover, Elkins WV
T7	15.90	River Temp Sang Run @700		
T9	15.40	River Temp Sang Run @900		
T11	17.20	River Temp Sang Run @1100		
T12	18.60	River Temp Sang Run @1200		
T14	21.50	River Temp Sang Run @1400		
T15	22.70	River Temp Sang Run @1500		
Q	7.00	River Flow at Oakland		

[Handwritten signatures] 8/31/12

No Release Required

APPENDIX C

**BYPASS FLOW OPERATION DATA TABLE AND
USGS PROVISIONAL WATER DISCHARGE DATA TABLE**

2012 Youghiogheny River Bypass Flow Provision				
Month	Day	Flow at Oakland Gage (cfs)	Bypass Flow Required (cfs)	% Valve Open
June	17	18	3	23
June	27	18	3	23
June	28	16	6	27
June	29	14	9	32
July	5	18	3	23
July	6	15	8	30
July	7	13	11	35
July	8	11	14	39
July	9	12	12	36
July	10	18	3	23
July	11	15	8	30
July	12	12	12	36
July	13	10	15	40
July	14	12	12	36
July	15	16	6	27
July	18	18	3	23
July	19	15	8	30
July	24	16	6	27
July	25	17	5	26
July	31	15	8	30
August	5	19	2	22
August	14	18	3	23
August	15	17	5	26
August	16	16	6	27
August	17	14	9	32
August	18	16	6	27
August	20	16	6	27
August	22	17	5	26
August	23	14	9	32
August	24	12	12	36
August	25	9.3	17	42
August	26	8.7	18	44
August	27	8.7	18	44
August	28	8.7	18	44
August	29	7.5	20	47
August	30	7	20	47
August	31	7	20	47
September	1	7	20	47
September	2	11	14	39
September	8	15	8	30
September	9	18	3	23
September	11	17	5	26
September	12	14	9	32
September	13	12	12	36
September	14	11	14	39
September	15	9	17	42
September	16	8.7	18	44

2012 Youghiogheny River Bypass Flow Provision				
Month	Day	Flow at Oakland Gage (cfs)	Bypass Flow Required (cfs)	% Valve Open
September	17	8	18	44
September	24	18	3	23
September	25	16	6	27
September	26	15	8	30

**USGS PROVISIONAL WATER DISCHARGE DATA (mean cfs)
FOR THE OAKLAND GAGE (No. 03075500) FROM JAN. 1, 2012 THROUGH JUL. 31, 2012 AND
FOR THE HOYES RUN GAGE (No. 03076100) FROM AUG. 1, 2012 THROUGH DECEMBER 31, 2012²**

Month	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Day												
1	419 ^A	396 ^A	4,220 ^A	428 ^A	148 ^A	47 ^A	36 ^A	184 ^A	127 ^A	159 ^A	462 ^B	172 ^P
2	382 ^A	363 ^A	1,440 ^A	447 ^A	364 ^A	51 ^A	65 ^A	160 ^A	56 ^A	95 ^A	496 ^B	170 ^P
3	308 ^A	293 ^A	1,370 ^A	332 ^A	357 ^A	43 ^A	31 ^A	149 ^A	68 ^A	150 ^P	471 ^B	307 ^P
4	233 ^A	261 ^A	835 ^A	288 ^A	359 ^A	37 ^A	21 ^A	140 ^A	60 ^A	105 ^P	432 ^B	418 ^P
5	218 ^{A c}	257 ^A	625 ^A	247 ^A	362 ^A	34 ^A	17 ^A	106 ^A	60 ^A	162 ^P	413 ^B	348 ^P
6	206 ^A	231 ^A	479 ^A	210 ^A	354 ^A	34 ^A	14 ^A	194 ^A	72 ^A	153 ^P	387 ^B	305 ^P
7	275 ^A	222 ^A	424 ^A	180 ^A	270 ^A	40 ^A	12 ^A	199 ^A	135 ^A	69 ^P	374 ^B	305 ^P
8	264 ^A	212 ^A	353 ^A	160 ^A	342 ^A	31 ^A	11 ^A	133 ^A	133 ^A	147 ^P	335 ^B	544 ^P
9	220 ^A	201 ^A	447 ^A	150 ^A	534 ^A	27 ^A	16 ^A	116 ^A	48 ^A	75 ^P	303 ^B	827 ^P
10	204 ^A	187 ^A	338 ^A	151 ^A	472 ^A	24 ^A	19 ^A	141 ^A	128 ^A	81 ^P	352 ^B	1,560 ^P
11	204 ^A	183 ^A	290 ^A	136 ^A	357 ^A	22 ^A	14 ^A	160 ^A	43 ^A	88 ^B	557 ^B	1,690 ^P
12	700 ^A	147 ^A	267 ^A	146 ^A	273 ^A	28 ^A	11 ^A	60 ^A	40 ^A	141 ^P	1,070 ^P	1,270 ^P
13	676 ^A	148 ^{A c}	350 ^A	129 ^A	225 ^A	40 ^A	10 ^A	79 ^A	127 ^A	58 ^B	2,320 ^P	996 ^P
14	508 ^A	152 ^{A c}	276 ^A	108 ^A	520 ^A	30 ^A	12 ^A	46 ^A	129 ^A	55 ^B	1,550 ^P	603 ^P
15	402 ^A	161 ^A	246 ^A	110 ^A	836 ^A	22 ^A	17 ^A	44 ^A	48 ^A	134 ^P	895 ^B	483 ^P
16	361 ^A	271 ^A	218 ^A	99 ^A	553 ^A	19 ^A	57 ^A	43 ^A	47 ^A	62 ^B	620 ^B	418 ^P
17	1,680 ^A	899 ^A	198 ^A	83 ^A	404 ^A	18 ^A	30 ^A	121 ^A	46 ^A	129 ^P	475 ^B	397 ^P
18	1,840 ^A	630 ^A	184 ^A	81 ^A	299 ^A	151 ^A	18 ^A	122 ^A	106 ^A	136 ^P	392 ^B	982 ^P
19	910 ^A	486 ^A	247 ^A	85 ^A	231 ^A	87 ^A	17 ^A	47 ^A	265 ^A	238 ^P	345 ^B	893 ^P
20	633 ^A	380 ^A	232 ^A	76 ^A	186 ^A	42 ^A	38 ^A	129 ^A	118 ^A	116 ^P	315 ^B	866 ^P
21	673 ^A	308 ^A	216 ^A	72 ^A	158 ^A	30 ^A	48 ^A	49 ^A	155 ^A	110 ^P	290 ^B	1,790 ^P
22	573 ^A	288 ^A	194 ^A	77 ^A	152 ^A	53 ^A	34 ^A	46 ^A	59 ^A	134 ^P	265 ^B	1,240 ^P
23	662 ^A	286 ^A	183 ^A	103 ^A	157 ^A	46 ^A	21 ^A	67 ^A	50 ^A	73 ^B	250 ^B	899 ^P
24	817 ^A	516 ^A	437 ^A	157 ^A	130 ^A	29 ^A	17 ^A	122 ^A	125 ^A	117 ^P	282 ^B	768 ^P
25	594 ^A	444 ^A	452 ^A	193 ^A	115 ^A	22 ^A	69 ^A	120 ^A	45 ^A	61 ^P	250 ^B	850 ^P
26	566 ^A	339 ^A	350 ^A	155 ^A	89 ^A	20 ^A	38 ^A	44 ^A	44 ^A	295 ^P	221 ^B	856 ^P
27	1,290 ^A	302 ^A	282 ^A	149 ^A	76 ^A	17 ^A	60 ^A	74 ^A	50 ^A	644 ^P	214 ^B	803 ^P
28	1,010 ^A	264 ^A	262 ^A	127 ^A	70 ^A	15 ^A	49 ^A	78 ^A	318 ^A	676 ^P	218 ^B	778 ^P
29	700 ^A	1,940 ^A	323 ^A	141 ^A	61 ^A	18 ^A	28 ^A	45 ^A	159 ^A	816 ^P	196 ^B	528 ^P
30	531 ^A		231 ^A	118 ^A	66 ^A	69 ^A	20 ^A	47 ^A	97 ^A	870 ^P	179 ^B	495 ^P
31	437 ^A		563 ^A		55 ^A		21 ^A	47 ^A		495 ^P		661 ^P

² The above data was obtained from the automated U.S. Geological Survey (USGS) database. Data annotated with an ^A are approved for publication. Data with a ^P have not received Director's approval and as such are provisional and subject to revision. Annotation ^c indicates that the value has been estimated. The data are released on the condition that neither the USGS nor the United States Government may be held liable for any damages resulting from its use.

APPENDIX D

DISSOLVED OXYGEN MONITORING LOGS

**DEEP CREEK STATION
DISSOLVED OXYGEN MONITORING LOG**

(Instrument Calibrated to 2000 ft. MSL)

Date	INSTRUMENT CALIBRATION CAL. READINGS			DO MEASUREMENTS DOWNSTREAM OF WEIR			NO. UNITS GENERATING	TIMES OF GENERATION	SLUICE GATE POSITION	NON-OPERATING TAILRACE ELEVATION	OPERATING TAILRACE ELEV.
	TIME	TEMP °C	DO (mg/l)	TIME	TEMP °C	DO (mg/l)					
6/1/2012	10:05	23.5	7.86	10:12	12.0	7.98	0		4 - OPEN	2021.8	
6/1/2012	12:41	22.7	7.96	12:50	14.4	9.66	2	11:00 - 14:00	4 - OPEN	2021.8	2028.1
6/1/2012	14:25	22.7	7.95	14:33	14.9	8.01	0		4 - OPEN	2021.9	
6/4/2012	9:45	16.1	9.10	9:53	11.4	7.39	0		4 - OPEN	2021.8	
6/4/2012	12:30	22.6	7.95	12:40	13.6	8.74	2	11:00 - 14:00	4 - OPEN	2021.8	2028.1
6/4/2012	14:38	23.1	7.86	14:45	14.2	7.97	0		4 - OPEN	2021.8	
6/8/2012	10:48	21.5	8.10	10:55	12.5	7.71	0		4 - OPEN	2021.7	
6/8/2012	11:23	17.0	8.66	11:30	14.4	8.22	2	11:00 - 14:00	4 - OPEN	2021.7	2028.1
6/8/2012	14:31	23.5	7.89	14:37	14.9	7.49	0		4 - OPEN	2021.7	
6/11/2012	9:15	21.9	8.14	9:23	12.1	7.57	0		4 - OPEN	2021.7	
6/11/2012	13:26	24.1	7.75	13:31	15.4	9.12	2	11:00 - 14:00	4 - OPEN	2021.7	2028.1
6/11/2012	14:35	23.4	7.89	14:45	16.0	7.19	0		4 - OPEN	2021.7	
6/15/2012	10:30	25.6	7.77	10:40	12.8	7.10	0		4 - OPEN	2021.7	
6/15/2012	11:30	19.8	8.83	11:40	15.9	8.68	2	11:00-14:00	4 - OPEN	2021.7	2028.1
6/15/2012	14:30	24.0	7.80	14:38	16.4	7.26	0		4 - OPEN	2021.7	
6/18/2012	10:31	22.0	8.11	10:39	12.5	7.27	0		4 - OPEN	2022.0	
6/18/2012	11:39	23.4	8.06	11:45	14.9	8.71	2	11:00 - 14:00	4 - OPEN	2022.0	2028.1
6/18/2012	14:30	26.8	7.45	14:40	15.7	7.17	0		4 - OPEN	2022.0	
6/22/2012	9:57	27.1	7.28	10:05	12.5	6.38	0		4 - OPEN	2021.7	
6/22/2012	11:31	24.3	7.69	11:37	14.8	8.35	2	11:00 - 14:00	4 - OPEN	2021.7	2028.1
6/22/2012	14:29	25.9	7.04	14:35	15.2	6.40	0		4 - OPEN	2021.7	
6/23/2012	10:30	27.5	7.29	10:40	12.8	6.40			4 - OPEN	2021.9	
6/23/2012	11:35	24.6	7.70	11:45	15.0	8.39	2	11:00 - 14:00	4 - OPEN	2021.9	
6/23/2012	14:35	26.3	7.10	14:40	15.4	6.48			4 - OPEN	2021.9	
6/25/2012	9:39	23.7	7.77	9:44	12.9	6.17	0		4 - OPEN	2021.7	
6/25/2012	13:30	22.5	7.98	13:38	14.9	7.63	2	11:00 - 14:00	4 - OPEN		2028.1
6/25/2012	14:10	22.7	7.86	14:15	15.0	6.38	0		4 - OPEN	2021.7	
6/30/2012	10:30	29.0	6.81	10:40	13.0	6.03	0		4 - OPEN	2021.7	
6/30/2012	11:35	21.6	8.00	11:47	15.8	7.35	2	11:00 - 14:00	4 - OPEN		2028.1
6/30/2012	14:25	22.0	7.78	14:37	15.2	6.15	0		4 - OPEN	2021.7	

**DEEP CREEK STATION
DISSOLVED OXYGEN MONITORING LOG**

(Instrument Calibrated to 2000 ft. MSL)

Date	INSTRUMENT CALIBRATION CAL. READINGS			DO MEASUREMENTS DOWNSTREAM OF WEIR			NO. UNITS GENERATING	TIMES OF GENERATION	SLUICE GATE POSITION	NON-OPERATING TAILRACE ELEVATION	OPERATING TAILRACE ELEV.
	TIME	TEMP °C	DO (mg/l)	TIME	TEMP °C	DO (mg/l)					
7/7/2012	10:07	26.1	7.53	10:15	13.0	5.28	0		4 - OPEN	2021.6	
7/7/2012	11:50	26.5	7.46	11:57	15.9	7.33	2	11:00 - 14:00	4 - OPEN		2028.1
7/7/2012	14:30	29.0	7.01	14:36	16.9	5.65	0		4 - OPEN	2021.6	
7/14/2012	10:26	23.4	7.92	10:34	13.7	5.23	0		4 - OPEN	2021.7	
7/14/2012	11:33	23.6	7.95	11:41	16.6	6.32	2	11:00 - 14:00	4 - OPEN		2028.1
7/14/2012	14:34	25.6	7.60	14:43	17.4	4.86	0		4 - OPEN	2021.7	
7/21/2012	9:02	22.3	8.05	9:09	13.4	3.42	0		4 - OPEN	2021.8	
7/21/2012	13:05	21.7	8.17	13:12	17.9	6.15	2	11:00-14:00	4 - OPEN		2028.1
7/21/2012	14:32	22.3	8.06	14:38	18.6	4.73	0		4 - OPEN	2021.8	
7/27/2012	10:00	32.2	6.75	10:07	13.4	3.37	0		4 - OPEN	2022.0	
7/27/2012	13:15	22.5	8.03	13:22	17.2	6.01	2	11:00 - 14:00	4 - OPEN		2028.1
7/27/2012	14:33	22.9	8.00	14:40	17.9	4.54	0		4 - OPEN	2022.0	
7/28/2012	9:32	24.0	7.76	9:38	13.6	3.04	0		4 - OPEN	2022.0	
7/28/2012	10:32	23.0	7.94	10:39	17.0	5.79	2	10:00 - 16:00	4 - OPEN		2028.1
8/4/2012	10:40	24.3	7.78	10:46	13.9	2.71	0		2 - Closed 2 - Open 6"	2021.7	
8/4/2012	12:10	24.9	7.69	12:17	18.0	6.61	2	11:00 - 14:00	2 - Closed 2 - Open 6"		2028.5
8/4/2012	14:36	25.5	7.45	14:41	18.5	3.53	0		2 - Closed 2 - Open 6"	2021.7	
8/6/2012	10:51	24.7	7.61	10:56	14.2	2.67	0		2 - Closed 2 - Open 6"	2021.7	
8/6/2012	11:16	20.4	7.77	11:25	17.6	5.97	2	11:00 - 14:00	2 - Closed 2 - Open 6"		2028.5
8/6/2012	14:33	24.6	7.65	14:42	18.1	2.84	0		2 - Closed 2 - Open 6"	2021.8	
8/10/2012	10:40	16.2	9.84	10:50	14.0	2.63	0		2 - Closed 2 - Open 6"	2021.8	
8/10/2012	13:30	30.1	6.75	13:38	18.3	6.17	2	11:00 - 14:00	2 - Closed 2 - Open 6"		2028.5
8/10/2012	14:30	25.9	7.48	14:39	18.6	3.39	0		2 - Closed 2 - Open 6"	2021.8	
8/17/2012	10:40	24.1	7.92	10:50	14.1	2.55	0		2 - Closed 2 - Open 6"	2021.7	
8/17/2012	13:00	27.4	6.59	13:10	18.5	6.19	2	11:00 - 14:00	2 - Closed 2 - Open 6"		2028.5
8/17/2012	14:39	26.0	7.02	14:50	18.7	3.25	0		2 - Closed 2 - Open 6"	2021.7	
8/18/2012	10:43	25.7	7.52	10:50	14.1	2.47	0		2 - Closed 2 - Open 6"	2021.7	
8/18/2012	11:52	28.6	6.78	11:59	18.6	6.04	2	11:00 - 14:00	2 - Closed 2 - Open 6"		2028.5
8/18/2012	14:33	26.7	7.12	14:38	18.5	3.19	0		2 - Closed 2 - Open 6"	2021.7	
8/25/2012	10:26	22.6	7.45	10:33	13.9	2.21	0		2 - Closed 2 - Open 6"	2021.6	
8/25/2012	11:36	21.7	7.58	11:44	18.2	6.21	2	11:00 - 14:00	2 - Closed 2 - Open 6"		2028.5
8/25/2012	14:40	25.8	7.61	14:47	17.9	2.96	0		2 - Closed 2 - Open 6"	2021.6	

**DEEP CREEK STATION
DISSOLVED OXYGEN MONITORING LOG**

(Instrument Calibrated to 2000 ft. MSL)

Date	INSTRUMENT CALIBRATION CAL. READINGS			DO MEASUREMENTS DOWNSTREAM OF WEIR			NO. UNITS GENERATING	TIMES OF GENERATION	SLUICE GATE POSITION	NON-OPERATING TAILRACE ELEVATION	OPERATING TAILRACE ELEV.
	TIME	TEMP °C	DO (mg/l)	TIME	TEMP °C	DO (mg/l)					
9/1/2012	9:37	23.2	7.89	9:45	13.6	6.43	0		2 - Closed 2 - Open 6"	2021.6	
9/1/2012	10:46	27.1	7.08	10:57	17.8	6.06	2	10:00 - 13:00	2 - Closed 2 - Open 6"		2028.5
9/1/2012	14:07	25.6	7.77	14:15	18.0	2.89	0		2 - Closed 2 - Open 6"	2021.6	
9/7/2012	9:10	23.9	7.68	9:18	14.7	1.90	0		2 - Closed 2 - Open 6"	2021.7	
9/7/2012	11:34	23.0	7.97	11:40	19.5	6.33	2	10:00 - 13:00	2 - Closed 2 - Open 6"		2028.5
9/7/2012	13:52	24.3	7.79	13:59	20.3	3.30	0		2 - Closed 2 - Open 6"	2021.7	
9/8/2012	9:30	24.3	7.86	9:40	15.0	2.00	0		2 - Closed 2 - Open 6"	2021.7	
9/8/2012	11:40	23.2	8.00	11:50	19.7	6.40	2	10:00 - 13:00	2 - Closed 2 - Open 6"		2028.5
9/8/2012	13:30	24.5	7.80	13:40	20.4	2.95	0		2 - Closed 2 - Open 6"	2021.8	
9/10/2012	9:21	22.7	8.00	9:32	14.1	2.03	0		2 - Closed 2 - Open 6"	2021.7	
9/10/2012	11:20	18.3	8.76	11:27	19.3	6.38	2	10:00 - 13:00	2 - Closed 2 - Open 6"		2028.5
9/10/2012	13:15	21.9	8.13	13:21	19.3	3.98	0		2 - Closed 2 - Open 6"	2021.7	
9/21/2012	9:30	23.3	7.90	9:36	14.6	1.86	0		2 - Closed 2 - Open 6"	2021.8	
9/21/2012	11:10	28.2	7.19	11:17	18.6	7.54	2	10:00 - 13:00	2 - Closed 2 - Open 6"		2028.5
9/21/2012	14:30	23.8	7.77	14:38	19.7	4.50	0		2 - Closed 2 - Open 6"	2021.8	
9/24/2012	9:37	23.8	7.72	9:43	14.5	2.16	0		2 - Closed 2 - Open 6"	2021.6	
9/24/2012	10:32	17.6	8.85	10:38	18.0	7.40	2	10:00 - 13:00	2 - Closed 2 - Open 6"		2028.5
9/24/2012	13:47	25.7	7.76	13:53	18.6	4.69	0		2 - Closed 2 - Open 6"	2021.6	
9/28/2012	9:45	24.6	7.62	9:52	14.9	1.79	0		2 - Closed 2 - Open 6"	2022.3	
9/28/2012	11:36	23.7	7.77	11:45	17.8	7.63	2	10:00 - 13:00	2 - Closed 2 - Open 6"		2028.5
9/28/2012	13:23	23.9	7.67	13:30	17.9	5.34	0		2 - Closed 2 - Open 6"	2022.4	
10/1/2012	9:50	24.5	7.66	9:56	15.1	2.38	0		2 - Closed 2 - Open 6"	2021.8	
10/1/2012	11:30	18.5	8.75	11:37	17.3	7.79	2	10:00 - 13:00	2 - Closed 2 - Open 6"		2028.5
10/1/2012	14:27	22.9	8.00	14:33	18.3	5.55	0		2 - Closed 2 - Open 6"	2021.8	

APPENDIX E

WATER APPROPRIATION AND USE PERMIT - GA1992S009(08)



MARYLAND DEPARTMENT OF THE ENVIRONMENT

1800 Washington Boulevard • Baltimore MD 21230

410-537-3000 • 1-800-633-6101

Martin O'Malley
Governor

Robert M. Summers, Ph.D.
Secretary

Anthony G. Brown
Lieutenant Governor

June 17, 2011

CERTIFIED MAIL - 7008 1830 0002 9396 6633
Return Receipt Requested

BROOKFIELD POWER PINEY & DEEP CREEK LLC
C/O GLENN NEIPOINT, SUPERINTENDENT
2000 RIVER ROAD
CLARION, PA 16124

RE: State Water Appropriation
Permit No. GA1992S009(08)
Revision 08

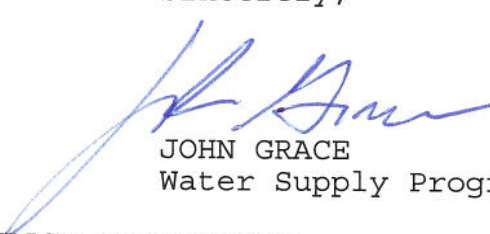
Dlym
Dear Mr. Neiport:

Enclosed is your revised State Water Appropriation Permit. This permit reflects the Department's careful consideration of the various beneficial uses at Deep Creek Lake with the goal of balancing the needs of the stakeholders. Brookfield's participation in the stakeholder process and its commitment to complying with the permit is appreciated.

As you know, semi-annual Water Withdrawal Reports are required by this permit. Forms for making these reports will be mailed to you in June and December of each year.

If you have any questions, please contact this office at (410) 537-3590.

Sincerely,


JOHN GRACE
Water Supply Program

cc: GARRETT COUNTY HEALTH DEPARTMENT
RANDY GARLETTS, BROOKFIELD POWER PINEY & DEEP CREEK LLC

STATE OF MARYLAND
DEPARTMENT OF THE ENVIRONMENT
WATER MANAGEMENT ADMINISTRATION

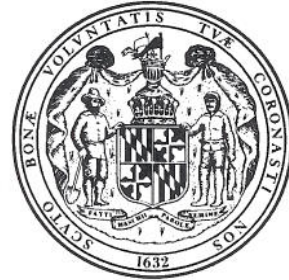
WATER APPROPRIATION AND USE PERMIT

PERMIT NUMBER: GA1992S009(08)

EFFECTIVE DATE: JUNE 1, 2011

EXPIRATION DATE: APRIL 1, 2019

FIRST APPROPRIATION: JANUARY 1, 1925



BROOKFIELD POWER PINEY & DEEP CREEK LLC

HEREINAFTER REFERRED TO AS THE "PERMITTEE", IS AUTHORIZED BY THE WATER MANAGEMENT ADMINISTRATION, HEREINAFTER REFERRED TO AS THE "ADMINISTRATION" PURSUANT TO THE PROVISIONS OF TITLE 5 OF THE ENVIRONMENT ARTICLE, ANNOTATED CODE OF MARYLAND (2007 REPLACEMENT VOLUME) AS AMENDED, TO APPROPRIATE AND USE WATERS OF THE STATE SUBJECT TO THE FOLLOWING CONDITIONS:

1. ALLOCATION - THE WATER WITHDRAWAL GRANTED BY THIS PERMIT IS LIMITED TO:
A DAILY AVERAGE OF 94,000,000 GALLONS ON A YEARLY BASIS AND A MAXIMUM DAILY WITHDRAWAL OF 420,000,000 GALLONS.
2. USE - THE WATER IS TO BE USED FOR HYDROELECTRIC GENERATION, TEMPERATURE ENHANCEMENT, WHITEWATER BOATING ENHANCEMENT, AND MAINTENANCE OF MINIMUM FLOWS IN THE YOUGHIOGHENY RIVER.
3. SOURCE - THE WATER SHALL BE TAKEN FROM DEEP CREEK LAKE.
4. LOCATION - THE POINT(S) OF WITHDRAWAL SHALL BE LOCATED AT THE EXISTING INTAKE STRUCTURE AT THE DEEP CREEK LAKE DAM, THREE MILES WEST OF THAYERVILLE, GARRETT COUNTY, MARYLAND.

CONTINUED ON PAGE 2

5. RIGHT OF ENTRY - THE PERMITTEE SHALL ALLOW AUTHORIZED REPRESENTATIVES OF THE ADMINISTRATION ACCESS TO THE PERMITTEE'S FACILITY TO CONDUCT INSPECTIONS AND EVALUATIONS NECESSARY TO ASSURE COMPLIANCE WITH THE CONDITIONS OF THIS PERMIT. THE PERMITTEE SHALL PROVIDE SUCH ASSISTANCE AS MAY BE NECESSARY TO EFFECTIVELY AND SAFELY CONDUCT SUCH INSPECTIONS AND EVALUATIONS.
6. PERMIT REVIEW - THE PERMITTEE WILL BE QUERIED EVERY THREE YEARS (TRIENNIAL REVIEW) REGARDING WATER USE UNDER THE TERMS AND CONDITIONS OF THIS PERMIT. FAILURE TO RETURN THE TRIENNIAL REVIEW QUERY WILL RESULT IN SUSPENSION OR REVOCATION OF THIS PERMIT.
7. PERMIT RENEWAL - THIS PERMIT WILL EXPIRE ON THE DATE INDICATED ON THE FIRST PAGE OF THIS PERMIT. IN ORDER TO RENEW THE PERMIT THE PERMITTEE SHALL FILE A RENEWAL APPLICATION WITH THE ADMINISTRATION NO LATER THAN 45 DAYS PRIOR TO THE EXPIRATION.
8. PERMIT SUSPENSION OR REVOCATION - THIS PERMIT MAY BE SUSPENDED OR REVOKED BY THE ADMINISTRATION UPON VIOLATION OF THE CONDITIONS OF THIS PERMIT, OR UPON VIOLATION OF ANY REGULATION PROMULGATED PURSUANT TO TITLE 5 OF THE ENVIRONMENT ARTICLE, ANNOTATED CODE OF MARYLAND (1996 REPLACEMENT VOLUME) AS AMENDED.
9. CHANGE OF OPERATIONS - ANY ANTICIPATED CHANGE IN APPROPRIATION WHICH MAY RESULT IN A NEW OR DIFFERENT USE, QUANTITY, SOURCE, OR PLACE OF USE OF WATER SHALL BE REPORTED TO THE ADMINISTRATION BY THE PERMITTEE BY SUBMISSION OF A NEW APPLICATION.
10. ADDITIONAL PERMIT CONDITIONS - THE ADMINISTRATION MAY AT ANYTIME (INCLUDING TRIENNIAL PERMIT REVIEW OR WHEN A CHANGE APPLICATION IS SUBMITTED) REVISE ANY CONDITION OF THIS PERMIT OR ADD ADDITIONAL CONDITIONS CONCERNING THE CHARACTER, AMOUNT, MEANS AND MANNER OF THE APPROPRIATION OR USE, WHICH MAY BE NECESSARY TO PROPERLY PROTECT, CONTROL AND MANAGE THE WATER RESOURCES OF THE STATE. CONDITION REVISIONS AND ADDITIONS WILL BE ACCOMPLISHED BY ISSUANCE OF A REVISED PERMIT.
11. NON-TRANSFERRABLE - THIS PERMIT IS NON-TRANSFERRABLE. A NEW OWNER MAY ACQUIRE AUTHORIZATION TO CONTINUE THIS APPROPRIATION BY FILING A NEW APPLICATION WITH THE ADMINISTRATION. AUTHORIZATION WILL BE ACCOMPLISHED BY ISSUANCE OF A NEW PERMIT.

12. FLOW MEASUREMENT - THE PERMITTEE SHALL MEASURE ALL WATER USED UNDER THIS PERMIT BY A METHOD WHICH SHALL BE APPROVED BY THE ADMINISTRATION. THE PERMITTEE SHALL MAINTAIN A DAILY LOG, SUBJECT TO INSPECTION BY AN AUTHORIZED REPRESENTATIVE OF THE ADMINISTRATION.
13. WITHDRAWAL REPORTS - THE PERMITTEE SHALL SUBMIT TO THE ADMINISTRATION, SEMI-ANNUALLY (JULY-DECEMBER, NO LATER THAN JANUARY 31 AND JANUARY-JUNE, NO LATER THAN JULY 31), WATER USE RECORDS. THESE RECORDS SHALL SHOW THE TOTAL QUANTITY OF WATER RELEASED EACH MONTH UNDER THIS PERMIT.
14. RULE BAND AND OPERATION PROTOCOLS - THE PERMITTEE SHALL OPERATE THE DEEP CREEK HYDROELECTRIC PROJECT (PROJECT) ACCORDING TO THE PROJECT OPERATING RULES SPECIFIED THROUGHOUT THIS PERMIT SUCH THAT WATER ELEVATIONS IN DEEP CREEK LAKE ARE MAINTAINED WITHIN THE OPERATING RULE BAND EXCEPT THAT EXCURSIONS OF UP TO 0.3 FEET ABOVE THE OPERATING RULE BAND LASTING NOT MORE THAN 21 DAYS ARE ALLOWED FROM MAY THROUGH OCTOBER, AND EXCEPT IN THE EVENT OF UNUSUAL OR EMERGENCY CONDITIONS AS DEFINED BELOW. THE UPPER AND LOWER RULE BANDS ARE THE HIGHEST AND LOWEST DESIRABLE RESERVOIR LEVELS AT THE END OF EACH MONTH. THE UPPER AND LOWER END OF EACH MONTH ARE DEFINED IN THE FOLLOWING TABLE. WHEN LAKE LEVELS ARE ABOVE THE UPPER RULE BAND, THE PERMITTEE MAY RELEASE WATER AS NEEDED TO DRAW DOWN THE LAKE TO A LEVEL WITHIN THE RULE BAND. ELEVATIONS ARE GIVEN IN FEET ABOVE MEAN SEA LEVEL.

PROJECT OPERATING RULE BAND

MONTH	UPPER BAND ELEVATIONS	LOWER BAND ELEVATIONS
JANUARY	2457.9	2455.0
FEBRUARY	2457.9	2456.0
MARCH	2459.5	2458.0
APRIL	2461.0	2459.6
MAY	2461.0	2460.0
JUNE	2461.0	2460.0
JULY	2461.0	2459.0
AUGUST	2460.0	2458.0
SEPTEMBER	2459.0	2457.0
OCTOBER	2458.0	2456.0
NOVEMBER	2457.9	2455.0
DECEMBER	2457.9	2455.0

- (A) A SYSTEM EMERGENCY, DEFINED AS MAXIMUM EMERGENCY GENERATION UNDER THE PENNSYLVANIA-NEW JERSEY-MARYLAND INTERCONNECTION (PJM) HIERARCHY OF EMERGENCY ORDERS, OR EMERGENCY LOADING OF SPINNING RESERVE CAPACITY, OR EMERGENCY CONTROL OF TRANSMISSION FACILITY LOADING;

14. RULE BAND AND OPERATION PROTOCOLS CONT'D

- (B) A SITE EMERGENCY SUCH AS FAILURE OR PROBABLE FAILURE OF THE DAM THAT REQUIRES MAXIMUM RELEASE FOR RAPID DRAWDOWN OF THE RESERVOIR;
- (C) A SITE EMERGENCY OR OTHER FORCED (UNSCHEDULED) OUTAGE REQUIRING SHUTDOWN OF THE INTAKE, POWER TUNNEL, PENSTOCKS, OR GENERATING UNITS, RESULTING IN THE INABILITY TO GENERATE OR TO OPERATE THE PROPOSED MINIMUM RELEASE BYPASS;
- (D) MAINTENANCE OF THE DAM OR REPAIR OF LAKE SHORELINE EROSION WHICH REQUIRES LOWERING OF LAKE LEVEL BELOW THE LOWER RULE BAND TO ALLOW ACCESS OR TO CONTROL INFLOW;
- (E) ACTUAL OR FORECAST EXTRAORDINARILY HIGH RUNOFF OR RAINFALL WHICH REQUIRES UNLIMITED GENERATION IN ORDER TO KEEP THE LAKE LEVEL FROM AVOID SPILLING OVER THE TOP OF THE DAM SPILLWAY.

THE DURATION AND TIMING OF PLANNED OUTAGES SHALL BE APPROVED IN ADVANCE BY THE ADMINISTRATION. IN PROPOSING PLANNED OUTAGES, THE PERMITTEE SHALL DETAIL REASONS WHY THE OUTAGE IS NECESSARY AS WELL AS HOW THE OUTAGE WILL IMPACT THE FISHERY AND WHITEWATER RECREATION IN THE YOUGHIOGHENY RIVER. TO THE EXTENT POSSIBLE, PLANNED OUTAGES SHALL NOT OCCUR DURING MID-APRIL THROUGH MID-OCTOBER.

- 15. LAKE LEVEL MONITORING AND REPORTING - THE PERMITTEE SHALL MEASURE AND RECORD THE WATER ELEVATIONS IN THE DEEP CREEK LAKE AT APPROXIMATELY THE SAME TIME EACH DAY. THE PERMITTEE SHALL REPORT THE RESULTS OF WATER-LEVEL MONITORING TO THE ADMINISTRATION ON AN ANNUAL BASIS, AND SHALL MAINTAIN A DAILY LOG OF MEASUREMENTS, SUBJECT TO INSPECTION BY THE ADMINISTRATION.
- 16. TEMPERATURE ENHANCEMENT IN THE YOUGHIOGHENY RIVER - THE PERMITTEE SHALL IMPLEMENT A PLAN APPROVED BY THE ADMINISTRATION FOR USING PROJECT OPERATION, OR A COMBINATION OF MINIMUM FLOW RELEASES AND PROJECT OPERATION, TO MAINTAIN WATER TEMPERATURES LESS THAN 25 DEGREES C IN THE YOUGHIOGHENY RIVER BETWEEN THE PROJECT TAILRACE AND SANG RUN, DURING THE MONTHS OF JUNE, JULY, AND AUGUST. THE PLAN MUST INCLUDE A TRIGGERING MECHANISM AND REAL-TIME MONITORING OF RIVER TEMPERATURE. THE PLAN MUST INCLUDE A PROTOCOL FOR PREDICTING TEMPERATURE RELEASES ON THE MORNING OF THE RELEASE, AS EARLY AS THREE HOURS IN ADVANCE. THE PERMITTEE SHALL REPORT TO THE ADMINISTRATION ALL OCCURRENCES OF WATER TEMPERATURES EQUALING

16. TEMPERATURE ENHANCEMENT IN THE YOUGHIOGHENY RIVER CONT'D

OR EXCEEDING 25 DEGREES C WITHIN 30 DAYS OF THE DATE OF OCCURRENCE, INCLUDING PROPOSED MEASURES OR CHANGES TO THE PLAN TO PRECLUDE FUTURE INCIDENTS WHERE WATER TEMPERATURE EQUALS OR EXCEEDS 25 DEGREES C. THE PERMITTEE SHALL INCLUDE THE RESULTS OF TEMPERATURE MONITORING IN AN ANNUAL REPORT. THE PERMITTEE SHALL, IN CONSULTATION WITH THE ADMINISTRATION, CONTINUE TO REFINE OR REVISE THE PLAN WITH THE OBJECTIVE OF MAINTAINING WATER TEMPERATURES IN THE RIVER BETWEEN THE PROJECT TAILRACE AND SANG RUN BELOW 25 DEGREES C AT ALL TIMES DURING THE MONTHS OF JUNE, JULY AND AUGUST.

17. MINIMUM FLOW RELEASES - THE PERMITTEE SHALL MAINTAIN AND OPERATE A BYPASS SYSTEM AT THE PROJECT TO MAINTAIN A MINIMUM FLOW OF 40 CFS IN THE YOUGHIOGHENY RIVER DOWNSTREAM OF THE PROJECT TAILRACE. THE MINIMUM FLOW SHALL BE MAINTAINED AT ALL TIMES BELOW THE TAILRACE. A REDUCTION IN THE MINIMUM FLOW BELOW 40 CFS MAY BE REQUESTED OF THE ADMINISTRATION WHEN RESERVOIR LEVELS ARE ONE FOOT OR MORE BELOW THE LOWER RULE BAND. THE PERMITTEE SHALL ESTIMATE FLOW IN THE YOUGHIOGHENY RIVER IMMEDIATELY BELOW THE TAILRACE AT APPROXIMATELY THE SAME TIME EACH DAY. MEASUREMENTS TAKEN BY THE PERMITTEE IN MARCH 2011 INDICATE THAT 20.7 CFS FLOWED IN THE TAILRACE WHEN THE BYPASS SYSTEM WAS CLOSED, BOTH PENSTOCKS WERE OPEN, WICKET GATES WERE CLOSED AND NO POWER GENERATION WAS OCCURRING. THE PERMITTEE SHALL USE THE BEST AVAILABLE ESTIMATE OF CURRENT LEAKAGE THROUGH THE WICKET GATES TO DETERMINE THE QUANTITY OF BYPASS FLOW NEEDED TO MEET THE 40 CFS FLOW IN THE YOUGHIOGHENY RIVER BELOW THE TAILRACE. A REPORT OF FLOW ESTIMATES AND THE OCCURRENCE OF BYPASS RELEASES SHALL BE SUBMITTED TO THE ADMINISTRATION IN AN ANNUAL REPORT, AND A DAILY LOG OF SUCH RELEASES SHALL BE MAINTAINED, SUBJECT TO INSPECTION BY AN AUTHORIZED REPRESENTATIVE OF THE ADMINISTRATION.

THE PERMITTEE SHALL PROVIDE A CONTINUOUS FLOW OF AT LEAST 9 CFS IN THE TAILRACE (WICKET GATE LOSS) DURING THE MONTHS OF JUNE, JULY, AUGUST, AND SEPTEMBER EVEN WHEN THERE IS NO MINIMUM BYPASS FLOW AS REQUIRED BY THIS CONDITION.

THE PERMITTEE SHALL MEASURE FLOW IN THE TAILRACE, FOLLOWING METHODS OF THE UNITED STATES GEOLOGICAL SURVEY (USGS), DURING THE MONTHS OF JUNE, AUGUST, AND OCTOBER 2011. FLOW SHALL BE MEASURED WHEN NO POWER GENERATION IS OCCURRING, THE WICKET GATES ARE CLOSED, THE BYPASS FLOW VALVE IS CLOSED, WITH ONE PENSTOCK VALVE OPEN, AND THEN WITH BOTH PENSTOCK VALVES ARE OPEN.

17. MINIMUM FLOW RELEASES CONT'D

THE PERMITTEE SHALL REPORT THE RESULTS OF THE MEASUREMENTS TO THE ADMINISTRATION WITHIN TWO WEEKS OF THE MEASUREMENTS WITH ALL SUPPORTING RAW DATA AND CALCULATIONS, AND DOCUMENTATION OF VELOCITY METER USED AND VALVE POSITIONS.

BY DECEMBER 31, 2011 THE PERMITTEE SHALL SUBMIT A PLAN TO THE ADMINISTRATION FOR REVIEW AND APPROVAL OUTLINING BOTH NEAR TERM AND LONGER TERM MEASURES THAT THE PERMITTEE WILL TAKE TO MINIMIZE THE ADVERSE IMPACTS OF WICKET GATE LOSSES ON LAKE LEVELS WHILE MAINTAINING A REQUIRED MINIMUM DISCHARGE OF 9 CFS IN THE TAILRACE.

18. DISSOLVED OXYGEN MITIGATION - THE PERMITTEE SHALL MAINTAIN AND OPERATE A TAILRACE WEIR DESIGNED TO INCREASE DISSOLVED OXYGEN LEVELS IN ALL PROJECT DISCHARGES ABOVE MARYLAND WATER QUALITY STANDARDS AS OUTLINED IN COMAR 26.08.02 (5 PPM MINIMUM, 6 PPM DAILY AVERAGE). THE PERMITTEE SHALL MONITOR DISSOLVED OXYGEN LEVELS OF PROJECT DISCHARGES BY A METHOD APPROVED BY THE ADMINISTRATION DURING JUNE 1 TO OCTOBER 1. THE RESULTS OF DISSOLVED OXYGEN MONITORING SHALL BE SUBMITTED TO THE ADMINISTRATION IN AN ANNUAL REPORT. THE PERMITTEE SHALL MAINTAIN A LOG OF MEASUREMENTS, SUBJECT TO INSPECTION BY AN AUTHORIZED REPRESENTATIVE OF THE ADMINISTRATION.

19. RELEASES FOR WHITEWATER RECREATION

- A) WHITEWATER RELEASES. THERE ARE TWO TYPES OF SCHEDULED WHITEWATER RELEASES (WWR); STANDARD AND SPECIAL RELEASES. ALL WWR ARE SUBJECT TO THE RULE BAND AND OPERATION REQUIREMENTS IN CONDITION 14, THE TEMPERATURE ENHANCEMENT RELEASE (TER) REQUIREMENTS IN CONDITION 16 AND THE PARAMETERS DEFINED BELOW IN PARAGRAPH B. THE INTENT OF WWR IS TO ENHANCE RECREATIONAL WHITEWATER ENJOYMENT FROM THE PROJECT TAILRACE TO FRIENDSVILLE.

19. RELEASES FOR WHITEWATER RECREATION CONT'D

I) STANDARD WWR. WITH THE EXCEPTION OF THE SPECIAL WWR CONDITIONS IN PARAGRAPH II) BELOW, STANDARD WWR WILL OCCUR ON SUNDAYS, MONDAYS, FRIDAYS, AND SATURDAYS BETWEEN APRIL 15TH AND OCTOBER 15TH IN ACCORDANCE WITH THE FOLLOWING TABLE AND MAY BE MODIFIED BY ITEMS II) AND III) BELOW.

<u>MONTH</u>	<u>SUNDAY</u>	<u>MONDAY</u>	<u>FRIDAY</u>	<u>SATURDAY</u>
APRIL	NONE	NONE	ALL FRIDAYS AFTER APRIL 14TH (1000 HR TO 1300 HR)	NONE
MAY	NONE	1ST TWO MONDAYS (1000 HR TO 1300 HR)	1ST THREE FRIDAYS (1000 HR TO 1300 HR)	1ST SATURDAY (1000 HR TO 1300 HR)
MEMORIAL DAY WEEKEND	ODD NUMBERED YEARS (1000 HR TO 1300 HR)	ODD NUMBERED YEARS (1000 HR TO 1300 HR)	EVEN NUMBERED YEARS (1000 HR TO 1300 HR)	EVEN NUMBERED YEARS (1000 HR TO 1300 HR)
JUNE	NONE	EVERY MONDAY (1100 HR TO 1400 HR)	EVERY FRIDAY (1100 HR TO 1400 HR)	LAST TWO SATURDAYS (1100 HR TO 1400 HR)
JULY	NONE	EVERY MONDAY (1100 HR TO 1400 HR)	EVERY FRIDAY (1100 HR TO 1400 HR)	EVERY SATURDAY (1100 HR TO 1400 HR) (see also Special WWR below)
AUGUST	NONE	EVERY MONDAY (1100 HR TO 1400 HR)	EVERY FRIDAY (1100 HR TO 1400 HR)	EVERY SATURDAY (1100 HR TO 1400 HR)
SEPTEMBER	NONE	EVERY MONDAY (1000 HR TO 1300 HR)	EVERY FRIDAY (1000 HR TO 1300 HR)	FIRST TWO SATURDAYS (1000 HR TO 1300 HR)
OCTOBER	NONE	ALL MONDAYS BEFORE OCTOBER 16TH (1000 HR TO 1300 HR)	ALL FRIDAYS BEFORE OCTOBER 16TH (1000 HR TO 1300 HR)	FIRST SATURDAY (1000 HR TO 1300 HR)

19. RELEASES FOR WHITEWATER RECREATION CONT'D

- II) SPECIAL WWR. SPECIAL WWR MUST BE REQUESTED IN WRITING TO THE ADMINISTRATION NO LATER THAN 30 CALENDAR DAYS BEFORE THE SPECIAL WWR AND WILL, AT A MINIMUM, INCLUDE:
 - + ANNUAL TEAM FRIENDSVILLE UPPER YOUGH RACE WWR. THE FOURTH SATURDAY WWR IN JULY WILL BE AN EXTENDED SIX (6) HOUR CONTINUOUS RELEASE BETWEEN 1100 HOURS AND 1700 HOURS TO ACCOMMODATE THE ANNUAL TEAM FRIENDSVILLE UPPER YOUGH RACE. THE ANNUAL TEAM FRIENDSVILLE UPPER YOUGH RACE WWR IS CONTINGENT ON THE LAKE LEVEL ELEVATION BEING HIGHER THAN THE ONE (1) FOOT BELOW THE LOWER RULE BAND ON THE DAY OF THE WWR.
 - + GAULEY WEEK WWR. GAULEY WEEK RELEASES INCLUDE CONTINUOUS THREE (3) HOUR RELEASES FROM 1000 HOURS TO 1300 HOURS ON TUESDAY, WEDNESDAY, AND THURSDAY OF THE WEEK BEFORE THE GAULEY FESTIVAL WEEKEND IN SUMMERSVILLE, WEST VIRGINIA. THE GAULEY FESTIVAL WEEKEND IS TYPICALLY SCHEDULED DURING THE SECOND HALF OF SEPTEMBER. EACH DAY OF THE GAULEY WEEK WWR IS CONTINGENT ON THE LAKE LEVEL ELEVATION BEING HIGHER THAN THE LOWER RULE BAND.
- III) SYNCHRONIZATION OF WWR WITH TER. ON SCHEDULED WWR DAYS THE PERMITTEE IS NOT REQUIRED TO RUN THE TER PROTOCOL, UNLESS THE WWR WOULD NOT OCCUR DUE TO LOW LAKE LEVELS.
- B) FROM APRIL 15TH THROUGH OCTOBER 15TH, THE FOLLOWING ADDITIONAL OPERATING RULES WILL ALSO BE IN EFFECT:
 - I) THE PERMITTEE SHALL NOT OPERATE THE PROJECT FOR HYDROELECTRIC GENERATION BEFORE 1300 HOURS WHEN NATURAL FLOWS AS MEASURED AT FRIENDSVILLE USGS GAGE 03076500 (FRIENDSVILLE) ARE BETWEEN 1300 AND 2500 CFS UNLESS AN UNUSUAL OR EMERGENCY CONDITION EXISTS, OR LAKE EXCEEDS THE UPPER RULE BAND.

19. RELEASES FOR WHITEWATER RECREATION CONT'D

- II) WHEN NATURAL FLOWS AS MEASURED AT FRIENDSVILLE ARE GREATER THAN 600, BUT LESS THAN 1300 CFS, AND LAKE ELEVATION IS WITHIN THE RULE BANDS SPECIFIED IN CONDITION 14, POWERHOUSE DISCHARGE SHALL BE NO GREATER THAN THE MAXIMUM DISCHARGE OF ONE TURBINE FOR THE FIRST THREE (3) HOURS OF SCHEDULED GENERATION.
- III) DURING WEEKS THAT CONTAIN A SATURDAY RELEASE, THE PERMITTEE SHALL MAKE RELEASES ON SATURDAYS WHEN THE LAKE LEVEL IS HIGHER THAN ELEVATION THAT IS ONE FOOT BELOW THE LOWER RULE BAND, AND ON SUNDAYS, MONDAYS AND FRIDAYS WHEN THE LAKE LEVEL IS ABOVE THE LOWER RULE BAND.
- IV) DURING WEEKS THAT DO NOT CONTAIN A SATURDAY RELEASE, THE PERMITTEE SHALL MAKE RELEASES ON FRIDAYS WHEN THE LAKE LEVEL IS HIGHER THAN AN ELEVATION THAT IS ONE FOOT BELOW THE LOWER RULE BAND, AND ON SUNDAYS AND MONDAYS WHEN THE LAKE LEVEL IS ABOVE THE LOWER RULE BAND.
- V) THE PERMITTEE MAY VARY POWERHOUSE DISCHARGE DURING ANY WWR IN ACCORDANCE WITH EITHER OF THE FOLLOWING TWO APPROACHES EXCEPT DURING THE ANNUAL TEAM FRIENDSVILLE UPPER YOUGH RACE WWR.
 - (1) 3RD HOUR REGULATION APPROACH
 - + WHEN NATURAL FLOW AS MEASURED AT FRIENDSVILLE IS LESS THAN 600 CFS, POWERHOUSE DISCHARGE MAY VARY BETWEEN 320 CFS AND MAXIMUM DISCHARGE OF TWO TURBINES DURING THE THIRD HOUR OF ANY WWR SO LONG AS POWERHOUSE DISCHARGE DURING THE FIRST TWO HOURS OF THE WWR IS HELD CONSTANT AT MAXIMUM DISCHARGE OF TWO TURBINES.
 - + WHEN NATURAL FLOW AS MEASURED AT FRIENDSVILLE IS GREATER THAN 600 CFS BUT LESS THAN 1300 CFS, POWERHOUSE DISCHARGE MAY VARY BETWEEN 220 CFS AND MAXIMUM DISCHARGE OF ONE TURBINE DURING THE THIRD HOUR OF ANY WWR SO LONG AS POWER HOUSE DISCHARGE DURING THE FIRST TWO HOURS OF THE WWR IS HELD CONSTANT AT MAXIMUM DISCHARGE OF ONE TURBINE.

19. RELEASES FOR WHITEWATER RECREATION CONT'D

(2) ALL HOUR REGULATION APPROACH.

- + WHEN NATURAL FLOW AS MEASURED AT FRIENDSVILLE IS LESS THAN OR EQUAL TO 300 CFS, POWERHOUSE DISCHARGE WILL BE HELD CONSTANT AT MAXIMUM DISCHARGE OF TWO TURBINES FOR ALL THREE HOURS OF ANY WWR.
 - + WHEN NATURAL FLOW AS MEASURED AT FRIENDSVILLE IS BETWEEN 300 AND 600 CFS, POWERHOUSE DISCHARGE MAY VARY BETWEEN 320 AND MAXIMUM DISCHARGE OF TWO TURBINES DURING ANY PART OF ANY THREE HOUR WWR.
 - + WHEN NATURAL FLOW AS MEASURED AT FRIENDSVILLE IS GREATER THAN 600 CFS BUT LESS THAN 1300 CFS, POWERHOUSE DISCHARGE MAY VARY BETWEEN 220 CFS AND MAXIMUM DISCHARGE OF ONE TURBINE DURING ANY PART OF ANY THREE HOUR WWR.
20. ANNOUNCEMENT OF EXPECTED RELEASES - ON EACH THURSDAY, THE PERMITTEE SHALL PLACE ON A RECORDED MESSAGE ACCESSIBLE TO THE PUBLIC BY TELEPHONE, A FORECAST OF EXPECTED RELEASES FOR THE FOLLOWING WEEK. EACH MORNING, BETWEEN 0700 AND 0800 HOURS, THE PERMITTEE SHALL PLACE ON THE RECORDED MESSAGE INFORMATION ON THE SCHEDULED RELEASES FOR THE NEXT 48 HOURS.
21. ZEBRA MUSSEL MONITORING - THE PERMITTEE SHALL IMPLEMENT A ZEBRA MUSSEL (*DREISSENA POLYMORPHA*) MONITORING PROGRAM APPROVED BY THE ADMINISTRATION. THE RESULTS OF SUCH MONITORING SHALL BE SUBMITTED IN AN ANNUAL REPORT.
22. NOTICE OF GENERATION RELEASES - AT STRATEGIC LOCATIONS, SELECTED IN CONSULTATION WITH THE ADMINISTRATION AND INCLUDING THE SANG RUN AND HOYES RUN ACCESS AREAS, THE PERMITTEE SHALL PROMINENTLY DISPLAY WARNING NOTICES REGARDING THE HAZARD OF RAPID WATER LEVEL FLUCTUATIONS ASSOCIATED WITH WATER RELEASES FROM DEEP CREEK LAKE.

23. ANNUAL REPORT - THE PERMITTEE SHALL SUBMIT AN ANNUAL REPORT TO THE ADMINISTRATION NO LATER THAN JANUARY 31 OF EACH YEAR. THE REPORT SHALL INCLUDE THE FOLLOWING DATA FOR THE PREVIOUS CALENDAR YEAR:
- A) LAKE LEVEL MONITORING (CONDITION 15);
 - B) TEMPERATURE MONITORING (CONDITION 16);
 - C) MINIMUM FLOW RELEASE MONITORING (CONDITION 17);
 - D) DISSOLVED OXYGEN MONITORING (CONDITION 18);
 - E) RELEASES UNSUITABLE FOR WHITEWATER RECREATION (CONDITION 19);
 - F) ZEBRA MUSSEL MONITORING (CONDITION 21).
24. PERMIT SUPERSESSION - THIS PERMIT HAS BEEN REVIEWED AND REVISED AND SUPERSEDES THE APPROPRIATION AND USE GRANTED BY THE FOLLOWING PRIOR PERMIT ISSUED TO:
BROOKFIELD POWER PINEY AND DEEP CREEK LLC ON APRIL 27, 2005 (GA1992S009(07))

BY AUTHORITY OF THE DIRECTOR
WATER MANAGEMENT ADMINISTRATION


John W. Grace, Chief
SOURCE PROTECTION AND APPROPRIATION DIV

APPENDIX F
ZEBRA MUSSEL MONITORING REPORTS

Deep Creek Lake, MD Zebra Mussel Monitoring Report

Brookfield Renewable Power
14 River View Terrace
Oakland, MD 21550
Phone: 301-387-6616
Fax: 301-387-5809



Collector's Name Sean Fredlock

Year 2012

Month 4

Day 12

Hour 10:00

Water Temperature ° F 63

How many days was the sampler exposed to the water prior to collecting this data? 30

Are zebra mussels present at the site? (NO) (YES) If yes comment below and notify the Superintendent and Maryland Department of Natural Resources immediately.

Other organisms observed on the sampler? NO

Comments _____

Deep Creek Lake, MD Zebra Mussel Monitoring Report

Brookfield Renewable Power
14 River View Terrace
Oakland, MD 21550
Phone: 301-387-6616
Fax: 301-387-5809



Collector's Name Sean Fredlock

Year 2012

Month 5

Day 15

Hour 13:00

Water Temperature ° F 71

How many days was the sampler exposed to the water prior to collecting this data? 34

Are zebra mussels present at the site? (NO) (YES) If yes comment below and notify the Superintendent and Maryland Department of Natural Resources immediately.

Other organisms observed on the sampler? NO

Comments _____

Deep Creek Lake, MD Zebra Mussel Monitoring Report

Brookfield Renewable Power
14 River View Terrace
Oakland, MD 21550
Phone: 301-387-6616
Fax: 301-387-5809



Collector's Name Sean Fredlock

Year 2012

Month 6

Day 12

Hour 11:00

Water Temperature ° F 73

How many days was the sampler exposed to the water prior to collecting this data? 27

Are zebra mussels present at the site? (NO) (YES) If yes comment below and notify the Superintendent and Maryland Department of Natural Resources immediately.

Other organisms observed on the sampler? NO

Comments _____

Deep Creek Lake, MD Zebra Mussel Monitoring Report

Brookfield Renewable Power
14 River View Terrace
Oakland, MD 21550
Phone: 301-387-6616
Fax: 301-387-5809



Collector's Name Sean Fredlock

Year 2012

Month 7

Day 17

Hour 11:00

Water Temperature ° F 0

How many days was the sampler exposed to the water prior to collecting this data? 32

Are zebra mussels present at the site? (NO) (YES) If yes comment below and notify the Superintendent and Maryland Department of Natural Resources immediately.

Other organisms observed on the sampler? NO

Comments _____

Deep Creek Lake, MD Zebra Mussel Monitoring Report

Brookfield Renewable Power
14 River View Terrace
Oakland, MD 21550
Phone: 301-387-6616
Fax: 301-387-5809



Collector's Name Sean Fredlock

Year 2012

Month 8

Day 17

Hour 9:00

Water Temperature ° F 0

How many days was the sampler exposed to the water prior to collecting this data? 31

Are zebra mussels present at the site? (NO) (YES) If yes comment below and notify the Superintendent and Maryland Department of Natural Resources immediately.

Other organisms observed on the sampler? NO

Comments _____

Deep Creek Lake, MD Zebra Mussel Monitoring Report

Brookfield Renewable Power
14 River View Terrace
Oakland, MD 21550
Phone: 301-387-6616
Fax: 301-387-5809



Collector's Name Sean Fredlock

Year 2012

Month 9

Day 18

Hour 12:00

Water Temperature ° F 0

How many days was the sampler exposed to the water prior to collecting this data? 33

Are zebra mussels present at the site? (NO) (YES) If yes comment below and notify the Superintendent and Maryland Department of Natural Resources immediately.

Other organisms observed on the sampler? NO

Comments _____

Deep Creek Lake, MD Zebra Mussel Monitoring Report

Brookfield Renewable Power
14 River View Terrace
Oakland, MD 21550
Phone: 301-387-6616
Fax: 301-387-5809



Collector's Name Sean Fredlock ,

Year 2012

Month 10

Day 16

Hour 13:00

Water Temperature ° F 64

How many days was the sampler exposed to the water prior to collecting this data? 31

Are zebra mussels present at the site? (NO) (YES) If yes comment below and notify the Superintendent and Maryland Department of Natural Resources immediately.

Other organisms observed on the sampler? NO

Comments _____

