

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

Deep Creek Hydroelectric Station

2010 Annual Report

**Maryland Department of the Environment
Water Appropriation and Use Permit No. GA1992S009(07)**

January 2011

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 April 1, 2007, that provides for the continued operation of the Deep Creek Hydroelectric Station. 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

1.1.1 End-of-Month Levels

Appendix A contains daily water level data for 2010 in tabular and graphical format. Reservoir levels did not exceed the desired end-of-month Upper Rule Band (URB). Reservoir levels were below the URB at the end of the month as follows:

TABLE 1 - Lake Level (in feet) Below URB

MONTH OF YEAR	FEET ABOVE (+) or BELOW (-) URB
January	0.0
February	-1.6
March	-0.2
April	-1.0
May	0.0
June	-0.5
July	-1.0
August	-1.2
September	-1.7
October	-1.6
November	-1.5
December	-0.9

1.1.2 Daily Levels

The following describes each daily variance of the URB and Lower Rule Band (LRB). Appendix A provides a graphical and tabular summary of these daily variances. The Deep Creek lake level did not remain between the URB and LRB for all of 2010 as detailed below.

- The Deep Creek lake level was within the URB and LRB between elevations of 2,455.0 feet MSL and 2,457.9 feet MSL from January 1 through January 24.
- The Deep Creek watershed received 0.90 inches of precipitation on January 24, and the lake level rose to 2458.1 on January 25, 0.2 feet above the URB. An additional 1.33 inches fell on January 25, causing the reservoir to rise above the URB by 0.6 feet to an elevation of 2,458.5 on January 26. The lake remained above the URB until January 30, and it was drawn down to 2457.9 on January 31.
- The Deep Creek reservoir remained between the LRB and URB February 1 through February 28; however, an emergency drawdown of the lake started on February 24 to mitigate the risk of overturning the emergency spillway by thick lake ice due to a rapid warm up period that was being forecasted. The record winter snowfall combined with a quick snowmelt was going to exceed the reservoir storage capacity by a significant magnitude before the lake ice melted. Both the dam and spillway were in imminent danger of being crested by rapidly rising water and ice. The drawdown continued into March, and the lake level went below the LRB on March 2 at elevation 2455.8. The lowest lake level occurred on March 12 at 2453.1 feet. On that day, runoff into the lake exceeded the maximum discharge capacity of the generators. The lake level then started a sharp rise, reaching the LRB on March 18 at 2457.1. By this time, the effects of the rapid snowmelt were mitigated, and the lake was being returned to its normal seasonal level in a controlled manner.
- The Deep Creek lake level remained within the URB and LRB elevations from March 19 until May 23. On May 22 and May 23, the watershed received 1.95 inches of rainfall that pushed the level from 2460.9 on May 21 to 2461.3 on May 23. The lake was brought down to 2460.0 on May 29.

- From May 30 to August 7 the lake level was maintained within the URB and LRB; however, the station saw a significant decrease in rainfall starting approximately June 25, and the lake level began a steady decline and went below the LRB on August 8 at elevation 2458.7. Monday and Friday whitewater releases were discontinued effective Monday, August 9 in accordance with Condition 19 of the Permit, but temperature enhancement releases and minimum flow releases continued as provided for in the Permit.
- The drought continued into the fall, and the lake level remained below the LRB until October 4. Scheduled Friday/Saturday whitewater releases continued through this period along with temperature enhancement and minimum flow as needed.
- The lake level remained within the URB and LRB from October 4 until the end of the year.

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). The plan was designed to maintain river water temperatures below 25 degrees Celsius (°C) in the Youghiogheny River.

By letters dated July 9, August 5, and September 3, 2010, Brookfield provided the MDE with temperature excursion dates 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 released water on 57 days in 2010, 18 of which were a combined with a whitewater release. Temperature enhancement releases occurred on June 2, 19, 20, 21, 22, 23, 24, 26, 27, 28, 29, and 30. The July releases occurred on 3, 4, 5, 6, 7, 8, 9, 10, 11, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, and 30. August releases occurred on 2, 3, 4, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 19, 20, 21, 29, 30, and 31. Combined releases occurred on June 19, 23, 26,

and 30. July combined releases occurred on 3, 5, 9, 10, 16, 17, 19, 23, 24, 26, and 30. August combined releases occurred on 7, 14, and 21.

The temperature enhancement protocol predicted water temperatures in excess of 25°C on June 2 and 19 through 30. July's predicted temperatures in excess of 25°C were 3 through 11 and 14 through 30. August predictions were 2, 3, 4, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 19, 20, 21, 29, 30, and 31. Appendix B presents the Sang Run temperature excursion dates, the duration of each excursion, an explanation for the excursion, and the maximum temperature for each date, during the period of June 1 through August 31, 2010.

Water temperature at Sang Run reached 25°C or greater on June 2, 27, and 30; July 14, 20, 21, 24, and 28; and on August 15 according to the Sang Run temperature data acquired by Brookfield.

Brookfield did not release water on June 2, June 25, and July 14 in accordance with the Water Temperature Enhancement Plan, as the flow at the Oakland gage was above 150 cubic feet per second (cfs).

Temperature release dates are listed in Table 2, and Appendix B presents results of the temperature monitoring at Sang Run for June through August, and the daily Deep Creek Station Water Temperature Enhancement Plan data sheets.

TABLE 2 – Temperature Enhancement Plan Release Dates

2010 DATES AND TIMES OF TEMPERATURE ENHANCEMENT PLAN RELEASES			
DATE	START TIME	STOP TIME	RIVER FLOW (CFS)
June 19	11:00	15:00	130
June 20	10:45	15:00	112
June 21	11:00	15:00	98
June 22	12:30	14:30	85
June 23	11:00	13:15	88
June 24	12:45	14:45	93
June 26	11:00	14:30	130
June 27	12:45	14:45	98
June 28	11:00	14:30	93
June 29	12:00	14:45	85

2010 DATES AND TIMES OF TEMPERATURE ENHANCEMENT PLAN RELEASES			
DATE	START TIME	STOP TIME	RIVER FLOW (CFS)
June 30	14:00	14:15	82
July 3	11:00	14:15	36
July 4	11:00	13:00	33
July 5	11:00	14:00	32
July 6	11:00	13:30	29
July 7	11:00	13:00	27
July 8	11:00	15:30	25
July 9	11:00	15:00	25
July 10	11:00	14:15	25
July 11	12:30	14:30	26
July 15	12:30	14:45	90
July 16	11:00	14:15	48
July 17	11:00	14:00	36
July 18	11:00	13:00	36
July 19	11:00	14:30	78
July 20	12:30	14:30	106
July 21	13:00	14:00	70
July 22	11:00	13:00	50
July 23	11:00	14:00	36
July 24	11:00	16:00	29
July 25	11:00	13:00	25
July 26	11:00	15:00	112
July 27	12:30	14:45	48
July 28	12:30	14:45	30
July 29	11:00	13:15	25
July 30	11:00	14:15	26
August 2	11:00	14:15	22
August 3	11:00	13:15	19
August 4	12:30	14:45	19
August 6	11:00	14:00	56
August 7	10:00	13:15	39
August 8	12:30	14:45	24
August 9	11:00	13:00	18
August 10	11:00	13:00	16
August 11	11:00	13:15	15
August 12	11:00	13:00	19
August 13	11:00	13:15	17
August 14	11:00	14:15	18
August 15	12:45	14:45	15
August 16	11:00	13:00	15
August 17	12:30	14:45	16
August 19	12:30	13:30	13
August 20	11:00	13:00	13
August 21	11:00	14:00	13
August 29	11:00	13:00	12

2010 DATES AND TIMES OF TEMPERATURE ENHANCEMENT PLAN RELEASES			
DATE	START TIME	STOP TIME	RIVER FLOW (CFS)
August 30	11:00	13:00	10
August 31	13:00	13:00	10

2010 COMBINED TEMPERATURE ENHANCEMENT PLAN AND WHITEWATER RELEASES		
DATE	START TIME	STOP TIME
June 19	11:00	15:00
June 23	11:00	13:15
June 26	11:00	14:30
June 30	14:00	14:15
July 3	11:00	14:15
July 5	11:00	14:00
July 9	11:00	15:00
July 10	11:00	14:15
July 16	11:00	14:15
July 17	11:00	14:00
July 19	11:00	14:30
Jul 23	11:00	14:00
July 24	11:00	16:00
July 26	11:00	15:00
July 30	11:00	14:15
August 7	10:00	13:15
August 14	11:00	14:15
August 21	11:00	14:00

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 Youghiogheny River immediately downstream of the tailrace. Starting January 1 and continuing through December 31, Brookfield monitored the river flows at the Oakland gage. 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.

The 2010 water year was a below-average precipitation year.

Brookfield provided bypass flow to the Youghiogheny River below the project tailrace on 80 days.

The table in Appendix C summarizes flow bypass data for July through November 2010, when flows in the Youghiogheny River were less than 26 cfs. Flow data were obtained from the U.S. Geological Survey (USGS) recording at the Oakland gage, direct readings from the Oakland gage, or from the tailrace gage at the station, per guidance provided in the protocol. 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 2010 in accordance with the Dissolved Oxygen Enhancement Operations and Monitoring Protocol approved by the MDE on January 6, 1995. In June, instantaneous DO measurements ranged from a low of 7.00 mg/L on June 28 to a high of 9.26 mg/L on June 18. In July, instantaneous DO measurements ranged from a low of 3.60 mg/L on July 31 to a high of 7.63 mg/L on July 9. In August, instantaneous DO measurements ranged from a low of 3.13 mg/L on August 2 to a high of 6.75 mg/L on August 2. In September, instantaneous DO measurements ranged from a low of 5.08 mg/L on September 17 to a high of 7.29 mg/L on September 24. The daily average was 6.55 mg/L. All data obtained from DO monitoring in 2010 are included in Appendix D.

1.5 Releases Unsuitable for Whitewater Recreation

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 facility, based on flows at the Friendsville gage and Deep Creek Lake levels.

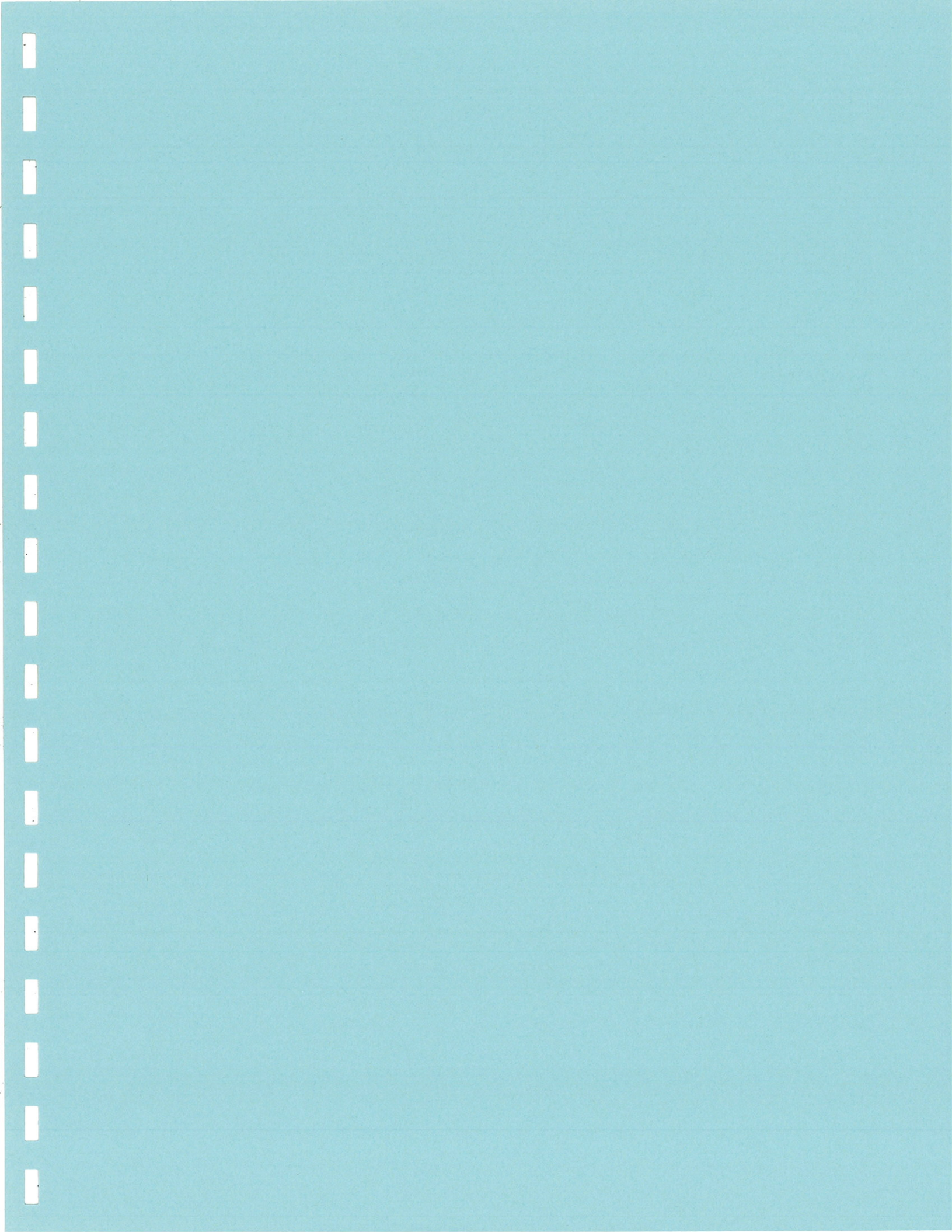
More specifically, Permit Condition 19.B.V allows Brookfield to employ either a “3rd Hour Regulation” or an “All Hour Regulation” approach for plant operations, in addition to the previously referenced conditions.

Additional details of these permit conditions can be found in Appendix E.

There were no releases unsuitable for whitewater recreation during 2011.

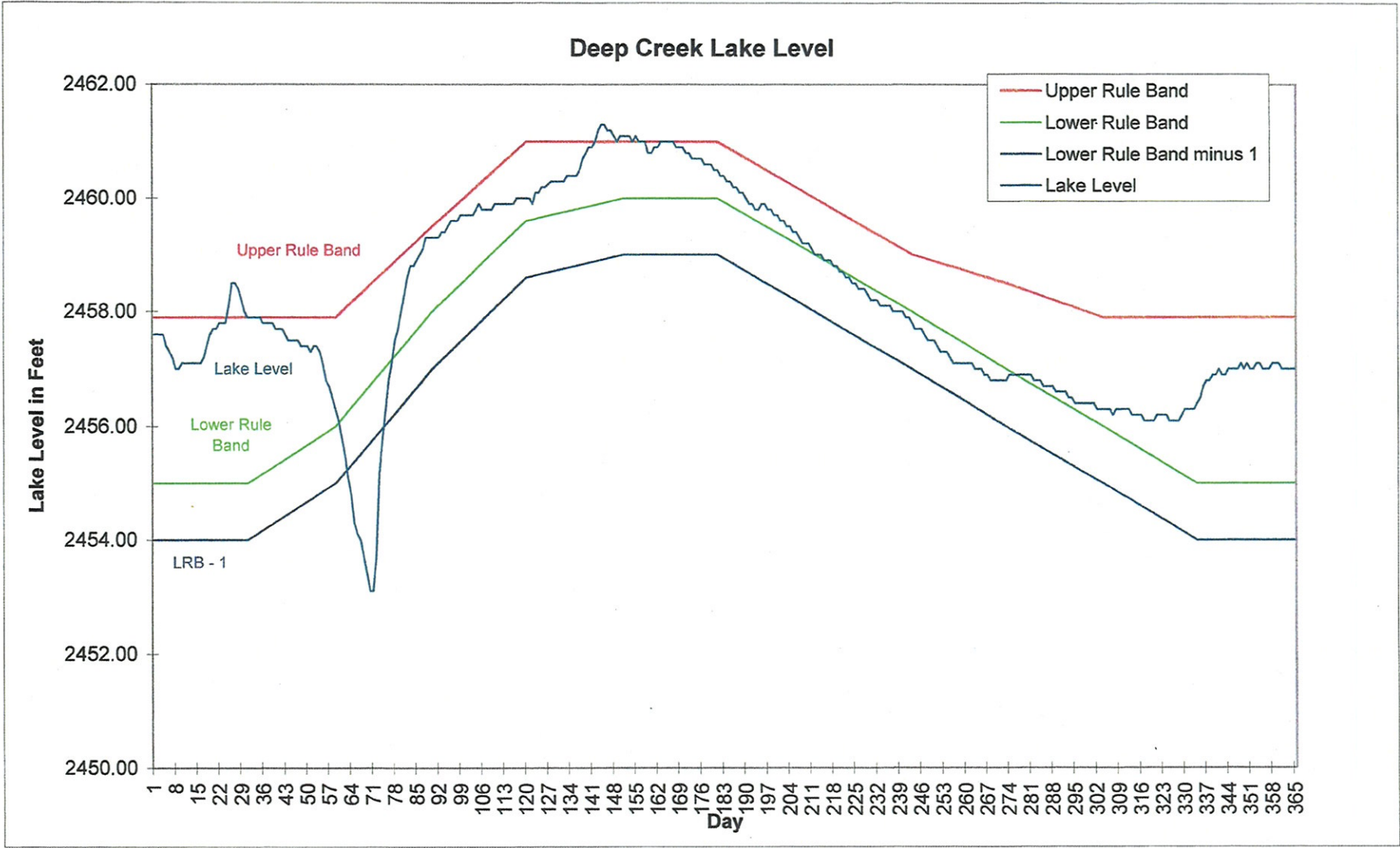
1.6 Zebra Mussel Monitoring

Artificial substrates placed at the station intake area during 2010 showed no signs of zebra mussel infestation. Appendix F contains the 2010 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 GRAPH - 2010

Deep Creek Daily Lake Level 2010

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	2457.6	0.20	Feb	1	2458.0	0.00	Mar	1	2456.1	0.25
	2	2457.6	0.25		2	2457.9	0.10		2	2455.8	0.00
	3	2457.6	0.08		3	2457.9	0.08		3	2455.5	0.07
	4	2457.6	0.04		4	2457.9	0.00		4	2455.1	0.00
	5	2457.4	0.10		5	2457.8	0.60		5	2454.8	0.00
	6	2457.3	0.09		6	2457.8	0.60		6	2454.3	0.00
	7	2457.2	0.10		7	2457.8	0.75		7	2454.1	0.00
	8	2457.0	0.10		8	2457.8	0.00		8	2454.0	0.00
	9	2457.0	0.05		9	2457.7	0.30		9	2453.7	0.00
	10	2457.1	0.00		10	2457.7	0.35		10	2453.4	0.00
	11	2457.1	0.03		11	2457.7	0.05		11	2453.1	0.21
	12	2457.1	0.02		12	2457.6	0.02		12	2453.1	0.13
	13	2457.1	0.00		13	2457.5	0.10		13	2453.7	0.90
	14	2457.1	0.00		14	2457.5	0.03		14	2455.2	0.32
	15	2457.1	0.00		15	2457.5	0.10		15	2455.8	0.14
	16	2457.1	0.05		16	2457.5	0.05		16	2456.3	0.04
	17	2457.2	0.88		17	2457.4	0.05		17	2456.8	0.00
	18	2457.4	0.02		18	2457.4	0.03		18	2457.1	0.00
	19	2457.6	0.00		19	2457.4	0.50		19	2457.5	0.00
	20	2457.7	0.00		20	2457.3	0.00		20	2457.7	0.00
	21	2457.7	0.20		21	2457.4	0.00		21	2458.0	0.00
	22	2457.8	0.10		22	2457.4	0.13		22	2458.3	0.10
	23	2457.8	0.00		23	2457.3	0.03		23	2458.6	0.17
	24	2457.8	0.90		24	2457.1	0.00		24	2458.8	0.00
	25	2458.1	1.33		25	2456.8	0.22		25	2458.8	0.55
	26	2458.5	0.05		26	2456.7	0.50		26	2458.9	0.10
	27	2458.5	0.05		27	2456.5	0.35		27	2459.0	0.00
	28	2458.4	0.08		28	2456.3	0.23		28	2459.1	0.67
	29	2458.2	0.00						29	2459.3	0.05
	30	2458.0	0.05						30	2459.3	0.00
	31	2457.9	0.00						31	2459.3	0.00
Total			4.77				5.17				3.70

Deep Creek Daily Lake Level 2010

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	2459.3	0.00	May	1	2460.0	0.03	Jun	1	2461.1	0.28
	2	2459.3	0.00		2	2459.9	0.92		2	2461.1	0.00
	3	2459.4	0.00		3	2460.1	0.53		3	2461.0	0.05
	4	2459.4	0.00		4	2460.1	0.00		4	2461.1	0.00
	5	2459.5	0.03		5	2460.2	0.00		5	2461.0	0.70
	6	2459.6	0.00		6	2460.2	0.03		6	2461.0	1.75
	7	2459.6	0.00		7	2460.3	0.00		7	2461.0	0.00
	8	2459.6	0.65		8	2460.3	0.08		8	2460.8	0.00
	9	2459.7	0.00		9	2460.3	0.02		9	2460.8	0.75
	10	2459.7	0.00		10	2460.3	0.00		10	2460.9	0.07
	11	2459.7	0.00		11	2460.3	0.75		11	2460.90	0.00
	12	2459.7	0.00		12	2460.3	0.28		12	2461.0	0.20
	13	2459.7	0.00		13	2460.4	0.02		13	2461.0	0.00
	14	2459.8	0.00		14	2460.4	0.40		14	2461.0	0.26
	15	2459.9	0.00		15	2460.4	0.00		15	2461.0	0.25
	16	2459.8	0.80		16	2460.4	0.00		16	2461.0	0.16
	17	2459.8	0.00		17	2460.5	1.27		17	2460.9	0.00
	18	2459.8	0.00		18	2460.7	0.05		18	2460.9	0.00
	19	2459.8	0.00		19	2460.8	0.07		19	2460.9	0.05
	20	2459.9	0.00		20	2460.9	0.00		20	2460.8	0.00
	21	2459.9	0.00		21	2460.9	0.00		21	2460.8	0.00
	22	2459.9	0.05		22	2461.0	1.22		22	2460.7	0.02
	23	2459.9	0.00		23	2461.2	0.73		23	2460.7	0.34
	24	2459.9	0.30		24	2461.3	0.00		24	2460.7	0.83
	25	2459.9	0.12		25	2461.3	0.00		25	2460.7	0.00
	26	2459.9	0.50		26	2461.2	0.00		26	2460.6	0.35
	27	2460.0	0.00		27	2461.2	0.00		27	2460.6	0.29
	28	2460.0	0.00		28	2461.1	0.05		28	2460.6	0.03
	29	2460.0	0.00		29	2461.0	0.00		29	2460.5	0.00
	30	2460.0	0.00		30	2461.0	0.00		30	2460.5	0.00
					31	2461.0	0.25				
Total			2.45				6.70				6.38

Deep Creek Daily Lake Level 2010

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	2460.4	0.00	Aug	1	2459.0	0.00	Sep	1	2457.7	0.00
	2	2460.4	0.00		2	2459.0	0.00		2	2457.7	0.00
	3	2460.3	0.00		3	2458.9	0.00		3	2457.7	0.05
	4	2460.3	0.00		4	2458.9	0.00		4	2457.6	0.05
	5	2460.2	0.00		5	2458.9	0.75		5	2457.5	0.00
	6	2460.2	0.00		6	2458.8	0.00		6	2457.5	0.00
	7	2460.1	0.00		7	2458.8	0.00		7	2457.5	0.00
	8	2460.1	0.00		8	2458.7	0.00		8	2457.4	0.00
	9	2460.0	0.08		9	2458.7	0.00		9	2457.3	0.00
	10	2459.9	0.00		10	2458.6	0.00		10	2457.3	0.00
	11	2459.9	0.00		11	2458.6	0.00		11	2457.3	0.20
	12	2459.8	0.10		12	2458.5	0.00		12	2457.2	0.11
	13	2459.8	0.80		13	2458.5	0.00		13	2457.1	0.00
	14	2459.9	0.00		14	2458.4	0.00		14	2457.1	0.00
	15	2459.9	0.00		15	2458.4	0.15		15	2457.1	0.00
	16	2459.8	0.23		16	2458.4	0.00		16	2457.1	1.30
	17	2459.8	0.00		17	2458.3	0.00		17	2457.1	0.05
	18	2459.7	0.00		18	2458.2	0.00		18	2457.1	0.00
	19	2459.7	0.43		19	2458.2	0.00		19	2457.1	0.00
	20	2459.6	0.15		20	2458.2	0.00		20	2457.0	0.00
	21	2459.6	0.00		21	2458.1	0.60		21	2457.0	0.00
	22	2459.5	0.00		22	2458.1	0.00		22	2457.0	0.05
	23	2459.5	0.00		23	2458.1	0.27		23	2456.9	0.00
	24	2459.4	0.00		24	2458.1	0.03		24	2456.9	0.10
	25	2459.4	0.50		25	2458.0	0.00		25	2456.8	0.00
	26	2459.3	0.00		26	2458.0	0.00		26	2456.8	0.12
	27	2459.2	0.00		27	2458.0	0.00		27	2456.8	0.22
	28	2459.2	0.00		28	2458.0	0.00		28	2456.8	0.35
	29	2459.2	0.05		29	2457.9	0.00		29	2456.8	0.00
	30	2459.1	0.00		30	2457.9	0.00		30	2456.8	2.24
	31	2459.0	0.15		31	2457.8	0.00				
Total			2.49				1.80				4.84

Deep Creek Daily Lake Level 2010

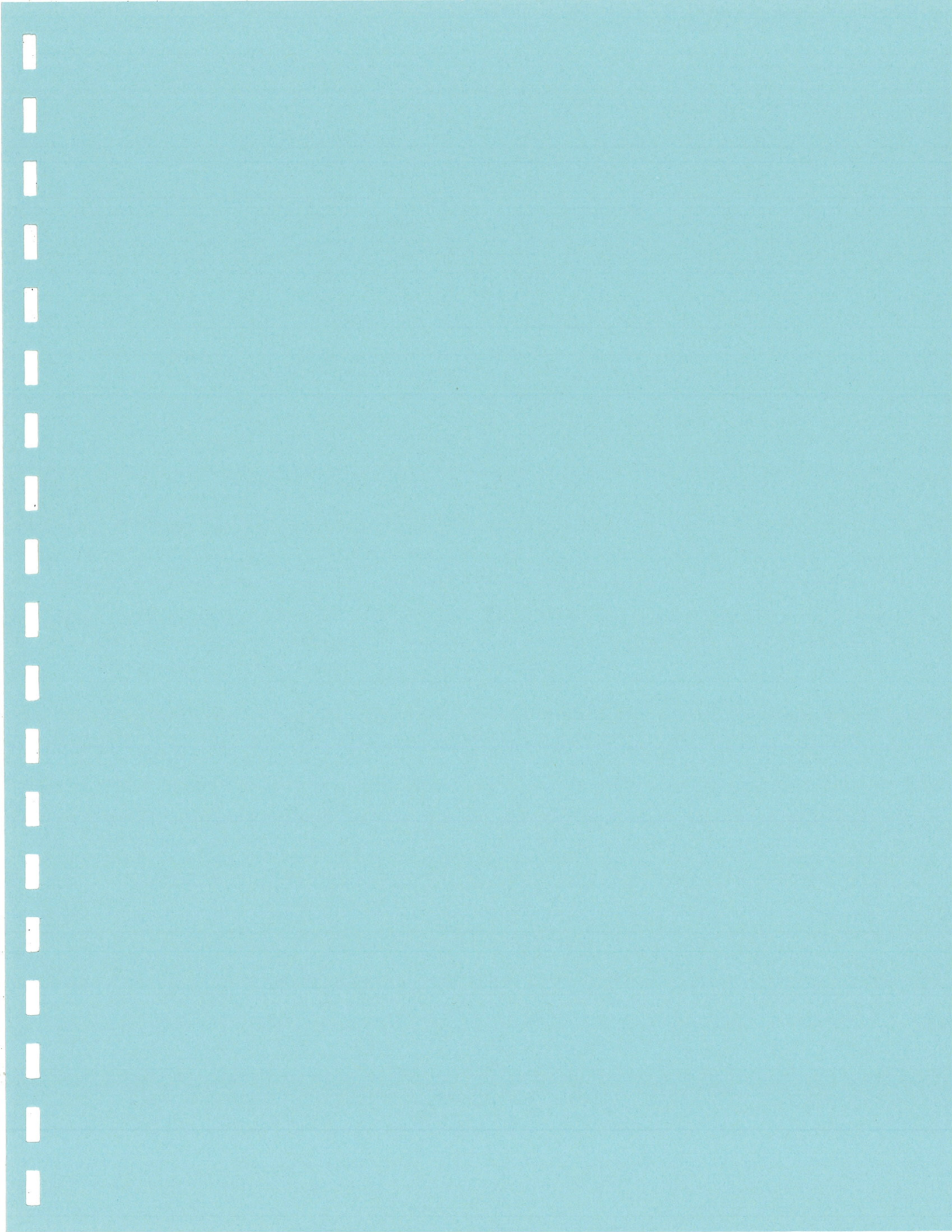
Month	Day	Lake Level (feet msl)	Rainfall (inches)	Month	Day	Lake Level (feet msl)	Rainfall (inches)	Month	Day	Lake Level (feet msl)	Rainfall (inches)
Oct	1	2456.9	0.00	Nov	1	2456.3	0.00	Dec	1	2456.5	0.83
	2	2456.9	0.00		2	2456.3	0.00		2	2456.7	0.14
	3	2456.9	0.00		3	2456.2	0.10		3	2456.7	0.02
	4	2456.9	0.00		4	2456.3	0.87		4	2456.8	0.00
	5	2456.9	0.07		5	2456.3	0.08		5	2456.9	0.04
	6	2456.9	0.41		6	2456.3	0.06		6	2456.9	0.10
	7	2456.9	0.00		7	2456.3	0.00		7	2457.0	0.18
	8	2456.9	0.00		8	2456.3	0.00		8	2456.9	0.06
	9	2456.8	0.00		9	2456.2	0.00		9	2456.9	0.00
	10	2456.8	0.00		10	2456.2	0.00		10	2457.0	0.00
	11	2456.8	0.00		11	2456.2	0.00		11	2457.0	0.00
	12	2456.7	0.00		12	2456.2	0.00		12	2457.0	0.40
	13	2456.7	0.00		13	2456.1	0.00		13	2457.0	0.08
	14	2456.7	0.09		14	2456.1	0.07		14	2457.1	0.17
	15	2456.7	0.00		15	2456.1	0.07		15	2457.0	0.02
	16	2456.6	0.00		16	2456.1	1.05		16	2457.1	0.03
	17	2456.6	0.00		17	2456.2	0.20		17	2457.0	0.00
	18	2456.6	0.04		18	2456.2	0.05		18	2457.0	0.00
	19	2456.6	0.11		19	2456.2	0.00		19	2457.1	0.00
	20	2456.5	0.00		20	2456.2	0.00		20	2457.1	0.00
	21	2456.5	0.00		21	2456.1	0.00		21	2457.0	0.00
	22	2456.4	0.00		22	2456.1	0.00		22	2457.0	0.00
	23	2456.4	0.00		23	2456.1	0.05		23	2457.0	0.05
	24	2456.4	0.00		24	2456.1	0.05		24	2457.1	0.00
	25	2456.4	0.05		25	2456.2	0.94		25	2457.1	0.00
	26	2456.4	0.45		26	2456.3	0.64		26	2457.1	0.05
	27	2456.4	0.00		27	2456.3	0.00		27	2457.0	0.07
	28	2456.4	0.00		28	2456.3	0.00		28	2457.0	0.03
	29	2456.4	0.00		29	2456.3	0.00		29	2457.0	0.00
	30	2456.3	0.00		30	2456.4	1.00		30	2457.0	0.00
	31	2456.3	0.00						31	2457.0	0.00
Total			1.22				5.23				2.27
										Year Total	47.02

**SUMMARY OF DAILY VARIANCES OF THE UPPER AND LOWER
RULE BANDS - 2010**

SUMMARY OF DAILY VARIANCES OF THE UPPER AND LOWER RULE BANDS - 2010

Date	Reservoir Level (feet)	Upper Rule Band (feet)	Lower Rule Band (feet)	Δ (feet)
January 25	2458.1	2457.9	2455.00	+ 0.2
January 26	2458.5	2457.9	2455.00	+ 0.6
January 27	2458.5	2457.9	2455.00	+ 0.6
January 28	2458.4	2457.9	2455.00	+ 0.5
January 29	2458.2	2457.9	2455.00	+ 0.3
January 30	2458.0	2457.9	2455.00	+ 0.1
March 2	2455.8	2457.95	2456.06	- 0.26
March 3	2455.5	2458.00	2456.13	- 0.63
March 4	2455.1	2458.05	2456.19	- 1.09
March 5	2454.8	2458.11	2456.26	- 1.46
March 6	2454.3	2458.16	2456.32	- 2.02
March 7	2454.1	2458.21	2456.39	- 2.29
March 8	2454.0	2458.26	2456.45	- 2.45
March 9	2453.7	2458.31	2456.52	- 2.82
March 10	2453.4	2458.36	2456.58	- 3.18
March 11	2453.1	2458.42	2456.65	- 3.55
March 12	2453.1	2458.47	2456.71	- 3.61
March 13	2453.7	2458.52	2456.77	- 3.07
March 14	2455.2	2458.57	2456.84	- 1.64
March 15	2455.8	2458.62	2456.90	- 1.1
March 16	2456.3	2458.67	2456.97	- 0.67
March 17	2456.8	2458.73	2457.03	- 0.23
May 23	2461.2	2461.0	2459.75	+ 0.2
May 24	2461.3	2461.0	2459.77	+ 0.3
May 25	2461.3	2461.0	2459.78	+ 0.3
May 26	2461.2	2461.0	2459.79	+ 0.2
May 27	2461.2	2461.0	2459.81	+ 0.2
May 28	2461.1	2461.0	2459.82	+ 0.1
August 8	2458.7	2459.77	2458.77	- 0.07
August 9	2458.7	2459.74	2458.74	- 0.04
August 10	2458.6	2459.71	2458.71	- 0.11
August 11	2458.6	2459.68	2458.68	- 0.08
August 12	2458.5	2459.65	2458.65	- 0.15
August 13	2458.5	2459.61	2458.61	- 0.11
August 14	2458.4	2459.58	2458.58	- 0.18
August 15	2458.4	2459.55	2458.55	- 0.15
August 16	2458.4	2459.52	2458.52	- 0.12
August 17	2458.3	2459.48	2458.48	- 0.18
August 18	2458.2	2459.45	2458.45	- 0.25
August 19	2458.2	2459.42	2458.42	- 0.22
August 20	2458.2	2459.39	2458.39	- 0.19
August 21	2458.1	2459.35	2458.35	- 0.25
August 22	2458.1	2459.32	2458.32	- 0.22
August 23	2458.1	2459.29	2458.29	- 0.19
August 24	2458.1	2459.26	2458.26	- 0.16
August 25	2458.0	2459.23	2458.23	- 0.23
August 26	2458.0	2459.19	2458.19	- 0.19
August 27	2458.0	2459.16	2458.16	- 0.16

Date	Reservoir Level (feet)	Upper Rule Band (feet)	Lower Rule Band (feet)	Δ (feet)
August 28	2458.0	2459.13	2458.13	- 0.13
August 29	2457.9	2459.1	2458.10	- 0.2
August 30	2457.9	2459.06	2458.06	- 0.16
August 31	2457.8	2459.03	2458.03	- 0.23
September 1	2457.7	2459.0	2458.00	- 0.3
September 2	2457.7	2458.98	2457.97	- 0.27
September 3	2457.7	2458.97	2457.93	- 0.23
September 4	2457.6	2458.95	2457.90	- 0.3
September 5	2457.5	2458.93	2457.87	- 0.37
September 6	2457.5	2458.92	2457.83	- 0.33
September 7	2457.5	2458.9	2457.80	- 0.3
September 8	2457.4	2458.88	2457.77	- 0.37
September 9	2457.3	2458.87	2457.73	- 0.43
September 10	2457.3	2458.85	2457.70	- 0.4
September 11	2457.3	2458.83	2457.67	- 0.37
September 12	2457.2	2458.82	2457.63	- 0.43
September 13	2457.1	2458.8	2457.60	- 0.5
September 14	2457.1	2458.78	2457.57	- 0.47
September 15	2457.1	2458.77	2457.53	- 0.43
September 16	2457.1	2458.75	2457.50	- 0.4
September 17	2457.1	2458.73	2457.47	- 0.37
September 18	2457.1	2458.72	2457.43	- 0.33
September 19	2457.1	2458.7	2457.40	- 0.3
September 20	2457.0	2458.68	2457.37	- 0.37
September 21	2457.0	2458.67	2457.33	- 0.33
September 22	2457.0	2458.65	2457.30	- 0.3
September 23	2456.9	2458.63	2457.27	- 0.37
September 24	2456.9	2458.62	2457.23	- 0.33
September 25	2456.8	2458.6	2457.20	- 0.4
September 26	2456.8	2458.58	2457.17	- 0.37
September 27	2456.8	2458.57	2457.13	- 0.33
September 28	2456.8	2458.55	2457.10	- 0.3
September 29	2456.8	2458.53	2457.07	- 0.27
September 30	2456.8	2458.52	2457.03	- 0.23
October 1	2456.9	2458.5	2457.00	- 0.1
October 2	2456.9	2458.48	2456.97	- 0.07
October 3	2456.9	2458.46	2456.94	- 0.04



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 Youghioghenny 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 from the instrument by Brookfield's Hydro Control Center in Marlborough, Massachusetts via telephone modem.

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

DATE	TIME	TEMP °C
6/1/2010	0:00:00	19.43
	0:10:00	19.40
	0:20:00	19.43
	0:30:00	19.43
	0:40:00	19.48
	0:50:00	19.48
	1:00:00	19.42
	1:10:00	19.45
	1:20:00	19.45
	1:30:00	19.45
	1:40:00	19.44
	1:50:00	19.42
	2:00:00	19.46
	2:10:00	19.41
	2:20:00	19.48
	2:30:00	19.43
	2:40:00	19.41
	2:50:00	19.38
	3:00:00	19.39
	3:10:00	19.39
	3:20:00	19.39
	3:30:00	19.35
	3:40:00	19.35
	3:50:00	19.30
	4:00:00	19.31
	4:10:00	19.30
	4:20:00	19.30
	4:30:00	19.26
	4:40:00	19.26
	4:50:00	19.30
	5:00:00	19.24
	5:10:00	19.19
	5:20:00	19.21
	5:30:00	19.18
	5:40:00	19.18
	5:50:00	19.17
	6:00:00	19.19
	6:10:00	19.17
	6:20:00	19.15
	6:30:00	19.15
6:40:00	19.14	
6:50:00	19.15	
7:00:00	19.13	
7:10:00	19.09	
7:20:00	19.14	

7:30:00	19.13
7:40:00	19.15
7:50:00	19.12
8:00:00	19.13
8:10:00	19.14
8:20:00	19.15
8:30:00	19.13
8:40:00	19.13
8:50:00	19.19
9:00:00	20.08
9:10:00	19.25
9:20:00	19.29
9:30:00	19.33
9:40:00	19.29
9:50:00	19.27
10:00:00	19.29
10:10:00	19.29
10:20:00	19.29
10:30:00	19.62
10:40:00	19.40
10:50:00	19.42
11:00:00	19.44
11:10:00	19.42
11:20:00	20.60
11:30:00	19.66
11:40:00	19.69
11:50:00	20.52
12:00:00	19.90
12:10:00	20.08
12:20:00	20.19
12:30:00	20.25
12:40:00	20.43
12:50:00	20.58
13:00:00	20.58
13:10:00	21.06
13:20:00	20.91
13:30:00	21.08
13:40:00	21.19
13:50:00	21.17
14:00:00	21.34
14:10:00	21.42
14:20:00	21.54
14:30:00	21.74
14:40:00	21.87
14:50:00	22.01
15:00:00	22.14
15:10:00	22.29

	23:10:00	19.92
	23:20:00	19.88
	23:30:00	19.86
	23:40:00	19.81
	23:50:00	19.76
6/2/2010	0:00:00	19.69
	0:10:00	19.67
	0:20:00	19.63
	0:30:00	19.56
	0:40:00	19.56
	0:50:00	19.54
	1:00:00	19.50
	1:10:00	19.45
	1:20:00	19.41
	1:30:00	19.41
	1:40:00	19.32
	1:50:00	19.30
	2:00:00	19.28
	2:10:00	19.26
	2:20:00	19.20
	2:30:00	19.18
	2:40:00	19.13
	2:50:00	19.10
	3:00:00	19.06
	3:10:00	19.02
	3:20:00	19.01
	3:30:00	18.95
	3:40:00	18.93
	3:50:00	18.92
	4:00:00	18.88
	4:10:00	18.83
	4:20:00	18.81
	4:30:00	18.80
	4:40:00	18.74
	4:50:00	18.71
	5:00:00	18.67
	5:10:00	18.68
	5:20:00	18.62
	5:30:00	18.60
	5:40:00	18.59
	5:50:00	18.56
	6:00:00	18.57
	6:10:00	18.54
	6:20:00	18.47
	6:30:00	18.49
	6:40:00	18.49
	6:50:00	18.47

7:00:00	18.47
7:10:00	18.45
7:20:00	18.38
7:30:00	18.47
7:40:00	18.52
7:50:00	18.49
8:00:00	18.54
8:10:00	18.29
8:20:00	19.43
8:30:00	19.64
8:40:00	18.66
8:50:00	19.03
9:00:00	18.70
9:10:00	18.77
9:20:00	18.82
9:30:00	18.81
9:40:00	18.87
9:50:00	19.19
10:00:00	19.25
10:10:00	19.26
10:20:00	19.32
10:30:00	19.37
10:40:00	19.49
10:50:00	-51.37
11:00:00	19.82
11:10:00	25.38
11:20:00	25.63
11:30:00	21.68
11:40:00	20.31
11:50:00	20.45
12:00:00	20.57
12:10:00	20.58
12:20:00	20.82
12:30:00	21.06
12:40:00	21.07
12:50:00	21.21
13:00:00	21.56
13:10:00	21.93
13:20:00	21.92
13:30:00	21.96
13:40:00	22.21
13:50:00	22.46
14:00:00	22.72
14:10:00	23.12
14:20:00	23.41
14:30:00	23.50
14:40:00	23.51

15:20:00	22.47
15:30:00	22.56
15:40:00	22.66
15:50:00	22.58
16:00:00	22.74
16:10:00	22.74
16:20:00	22.76
16:30:00	22.70
16:40:00	22.87
16:50:00	22.78
17:00:00	22.91
17:10:00	22.93
17:20:00	22.91
17:30:00	22.94
17:40:00	22.91
17:50:00	22.84
18:00:00	22.81
18:10:00	22.76
18:20:00	22.78
18:30:00	22.68
18:40:00	22.61
18:50:00	22.56
19:00:00	22.48
19:10:00	22.35
19:20:00	22.26
19:30:00	22.14
19:40:00	22.00
19:50:00	21.86
20:00:00	21.76
20:10:00	21.68
20:20:00	21.55
20:30:00	21.44
20:40:00	21.29
20:50:00	21.18
21:00:00	21.09
21:10:00	21.00
21:20:00	20.85
21:30:00	20.73
21:40:00	20.63
21:50:00	20.53
22:00:00	20.44
22:10:00	20.36
22:20:00	20.29
22:30:00	20.21
22:40:00	20.15
22:50:00	20.07
23:00:00	19.99

14:50:00	23.38
15:00:00	23.12
15:10:00	22.77
15:20:00	20.72
15:30:00	19.35
15:40:00	19.17
15:50:00	18.78
16:00:00	18.54
16:10:00	18.47
16:20:00	18.36
16:30:00	18.27
16:40:00	18.23
16:50:00	18.12
17:00:00	18.07
17:10:00	18.01
17:20:00	17.89
17:30:00	17.84
17:40:00	17.78
17:50:00	17.75
18:00:00	17.69
18:10:00	17.64
18:20:00	17.52
18:30:00	17.42
18:40:00	17.32
18:50:00	17.22
19:00:00	17.11
19:10:00	17.01
19:20:00	16.88
19:30:00	16.80
19:40:00	16.77
19:50:00	16.76
20:00:00	16.75
20:10:00	16.73
20:20:00	16.71
20:30:00	16.71
20:40:00	16.73
20:50:00	16.71
21:00:00	16.76
21:10:00	16.71
21:20:00	16.73
21:30:00	16.73
21:40:00	16.73
21:50:00	16.75
22:00:00	16.80
22:10:00	16.90
22:20:00	17.14
22:30:00	17.42

	22:40:00	17.75
	22:50:00	18.02
	23:00:00	18.23
	23:10:00	18.43
	23:20:00	18.61
	23:30:00	18.74
	23:40:00	18.86
	23:50:00	18.96
6/3/2010	0:00:00	19.07
	0:10:00	19.14
	0:20:00	19.21
	0:30:00	19.24
	0:40:00	19.32
	0:50:00	19.39
	1:00:00	19.35
	1:10:00	19.38
	1:20:00	19.38
	1:30:00	19.40
	1:40:00	19.41
	1:50:00	19.42
	2:00:00	19.48
	2:10:00	19.43
	2:20:00	19.45
	2:30:00	19.43
	2:40:00	19.43
	2:50:00	19.41
	3:00:00	19.41
	3:10:00	19.41
	3:20:00	19.40
	3:30:00	19.41
	3:40:00	19.39
	3:50:00	19.39
	4:00:00	19.39
	4:10:00	19.35
	4:20:00	19.35
	4:30:00	19.31
	4:40:00	19.32
	4:50:00	19.29
	5:00:00	19.27
	5:10:00	19.29
	5:20:00	19.28
	5:30:00	19.25
	5:40:00	19.20
	5:50:00	19.21
	6:00:00	19.17
	6:10:00	19.17
	6:20:00	19.17

6:30:00	19.13
6:40:00	19.09
6:50:00	19.12
7:00:00	19.03
7:10:00	19.12
7:20:00	19.12
7:30:00	19.12
7:40:00	19.13
7:50:00	19.12
8:00:00	19.10
8:10:00	19.10
8:20:00	19.12
8:30:00	18.95
8:40:00	19.12
8:50:00	19.23
9:00:00	19.26
9:10:00	19.74
9:20:00	19.35
9:30:00	19.43
9:40:00	19.50
9:50:00	19.50
10:00:00	19.59
10:10:00	19.69
10:20:00	19.73
10:30:00	19.83
10:40:00	19.88
10:50:00	19.95
11:00:00	20.04
11:10:00	20.10
11:20:00	20.21
11:30:00	20.32
11:40:00	20.39
11:50:00	20.40
12:00:00	20.49
12:10:00	20.56
12:20:00	20.64
12:30:00	20.70
12:40:00	21.31
12:50:00	21.09
13:00:00	21.45
13:10:00	21.51
13:20:00	21.73
13:30:00	21.81
13:40:00	21.73
13:50:00	21.76
14:00:00	21.74
14:10:00	21.78

14:20:00	21.80
14:30:00	21.82
14:40:00	21.76
14:50:00	22.05
15:00:00	22.03
15:10:00	21.90
15:20:00	20.16
15:30:00	18.95
15:40:00	18.69
15:50:00	18.48
16:00:00	18.22
16:10:00	18.15
16:20:00	18.23
16:30:00	18.19
16:40:00	18.30
16:50:00	18.25
17:00:00	18.32
17:10:00	18.24
17:20:00	18.12
17:30:00	18.02
17:40:00	17.97
17:50:00	17.91
18:00:00	17.78
18:10:00	17.63
18:20:00	17.58
18:30:00	17.44
18:40:00	17.38
18:50:00	17.25
19:00:00	17.17
19:10:00	17.08
19:20:00	16.96
19:30:00	16.82
19:40:00	16.73
19:50:00	16.63
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	22:30:00	20.60
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	5:10:00	20.48
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	23:50:00	15.98
6/8/2010	0:00:00	15.94
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	19:40:00	21.90
	19:50:00	21.78
	20:00:00	21.67
	20:10:00	21.58
	20:20:00	21.52
	20:30:00	21.50
	20:40:00	21.42
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	21:00:00	21.30
	21:10:00	21.21
	21:20:00	21.19
	21:30:00	21.17
	21:40:00	21.04
	21:50:00	21.06
	22:00:00	20.98
	22:10:00	20.93
	22:20:00	20.91
	22:30:00	20.85
	22:40:00	20.78
	22:50:00	20.80
	23:00:00	20.71
	23:10:00	20.70
	23:20:00	20.62
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6:40:00	19.99
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13:40:00	18.13
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16:10:00	18.66
16:20:00	18.74
16:30:00	18.92

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	21:00:00	20.56
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	21:20:00	20.69
	21:30:00	20.73
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	22:20:00	20.75
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	22:40:00	20.73
	22:50:00	20.72
	23:00:00	20.71
	23:10:00	20.69
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6/15/2010	0:00:00	20.62
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8:50:00	20.04
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11:40:00	19.95
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15:50:00	17.70
16:00:00	17.74

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21:10:00	19.95
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21:50:00	19.86
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22:10:00	19.84
22:20:00	19.83
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23:00:00	19.75
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	6:30:00	19.49
	6:40:00	19.46
	6:50:00	19.44
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	7:10:00	19.41

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	6:40:00	18.07

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19:50:00	23.05
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20:10:00	22.80
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20:30:00	22.58
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21:30:00	21.93
21:40:00	21.76
21:50:00	21.69
22:00:00	21.58
22:10:00	21.47
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	22:50:00	21.16
	23:00:00	21.05
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6/19/2010	0:00:00	20.72
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	5:30:00	20.93
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	1:10:00	21.82
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	22:00:00	23.79
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6/24/2010	0:00:00	22.78
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	20:40:00	22.76
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	23:20:00	23.13
	23:30:00	23.09
	23:40:00	23.05
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6/28/2010	0:00:00	22.94
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	0:50:00	22.76
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	18:20:00	20.75
	18:30:00	20.87
	18:40:00	20.96
	18:50:00	21.02
	19:00:00	21.02
	19:10:00	21.04
	19:20:00	21.06
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	19:50:00	21.47
	20:00:00	21.71
	20:10:00	21.91
	20:20:00	22.04
	20:30:00	22.24
	20:40:00	22.39
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	21:20:00	22.78
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	22:10:00	22.89
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	22:30:00	22.87
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	23:30:00	22.78
	23:40:00	22.75
	23:50:00	22.72
6/29/2010	0:00:00	22.72
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11:30:00	22.76
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16:10:00	18.83
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	17:40:00	19.81
	17:50:00	20.08
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	19:30:00	20.51
	19:40:00	20.51
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	20:10:00	20.69
	20:20:00	20.76
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1:40:00	20.82
1:50:00	20.79
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4:10:00	19.99
4:20:00	19.92
4:30:00	19.83
4:40:00	19.76
4:50:00	19.74
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6:50:00	19.15
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7:10:00	19.10
7:20:00	19.08
7:30:00	19.08
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14:50:00	24.84
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15:40:00	25.46
15:50:00	25.46
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Date Time, GMT-04:00 Temp, °C

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7/1/2010 2:30	18.01
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7/31/2010 23:50

19.94

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8/28/2010 14:00	19.82
8/28/2010 14:10	20.15
8/28/2010 14:20	20.39
8/28/2010 14:30	20.65
8/28/2010 14:40	20.82
8/28/2010 14:50	20.96
8/28/2010 15:00	21.08
8/28/2010 15:10	21.18
8/28/2010 15:20	21.25
8/28/2010 15:30	21.32
8/28/2010 15:40	21.41
8/28/2010 15:50	21.46
8/28/2010 16:00	21.56
8/28/2010 16:10	21.65
8/28/2010 16:20	21.75
8/28/2010 16:30	21.84
8/28/2010 16:40	21.94
8/28/2010 16:50	22.01
8/28/2010 17:00	22.08
8/28/2010 17:10	22.15
8/28/2010 17:20	22.20
8/28/2010 17:30	22.25

8/28/2010 17:40	22.27
8/28/2010 17:50	22.27
8/28/2010 18:00	22.27
8/28/2010 18:10	22.25
8/28/2010 18:20	22.25
8/28/2010 18:30	22.20
8/28/2010 18:40	22.13
8/28/2010 18:50	22.08
8/28/2010 19:00	22.01
8/28/2010 19:10	21.94
8/28/2010 19:20	21.89
8/28/2010 19:30	21.80
8/28/2010 19:40	21.70
8/28/2010 19:50	21.60
8/28/2010 20:00	21.51
8/28/2010 20:10	21.39
8/28/2010 20:20	21.27
8/28/2010 20:30	21.18
8/28/2010 20:40	21.03
8/28/2010 20:50	20.91
8/28/2010 21:00	20.82
8/28/2010 21:10	20.70
8/28/2010 21:20	20.58
8/28/2010 21:30	20.48
8/28/2010 21:40	20.37
8/28/2010 21:50	20.27
8/28/2010 22:00	20.17
8/28/2010 22:10	20.08
8/28/2010 22:20	19.98
8/28/2010 22:30	19.89
8/28/2010 22:40	19.79
8/28/2010 22:50	19.70
8/28/2010 23:00	19.63
8/28/2010 23:10	19.56
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8/28/2010 23:40	19.32
8/28/2010 23:50	19.25
8/29/2010 0:00	19.18
8/29/2010 0:10	19.10
8/29/2010 0:20	19.03
8/29/2010 0:30	18.96
8/29/2010 0:40	18.89
8/29/2010 0:50	18.84
8/29/2010 1:00	18.77
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8/29/2010 1:20	18.63

8/29/2010 1:30	18.58
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8/29/2010 1:50	18.46
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8/29/2010 4:10	17.56
8/29/2010 4:20	17.51
8/29/2010 4:30	17.44
8/29/2010 4:40	17.37
8/29/2010 4:50	17.32
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8/29/2010 5:10	17.18
8/29/2010 5:20	17.13
8/29/2010 5:30	17.06
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8/29/2010 6:30	16.68
8/29/2010 6:40	16.61
8/29/2010 6:50	16.56
8/29/2010 7:00	16.49
8/29/2010 7:10	16.44
8/29/2010 7:20	16.37
8/29/2010 7:30	16.32
8/29/2010 7:40	16.30
8/29/2010 7:50	16.25
8/29/2010 8:00	16.23
8/29/2010 8:10	16.20
8/29/2010 8:20	16.20
8/29/2010 8:30	16.20
8/29/2010 8:40	16.23
8/29/2010 8:50	16.25
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8/29/2010 10:00	17.11
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8/29/2010 11:50	19.32
8/29/2010 12:00	19.56
8/29/2010 12:10	19.79
8/29/2010 12:20	20.01
8/29/2010 12:30	20.22
8/29/2010 12:40	20.44
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8/29/2010 13:50	19.58
8/29/2010 14:00	19.96
8/29/2010 14:10	20.32
8/29/2010 14:20	20.58
8/29/2010 14:30	20.82
8/29/2010 14:40	21.03
8/29/2010 14:50	21.22
8/29/2010 15:00	21.41
8/29/2010 15:10	21.60
8/29/2010 15:20	21.80
8/29/2010 15:30	21.99
8/29/2010 15:40	22.18
8/29/2010 15:50	22.35
8/29/2010 16:00	22.51
8/29/2010 16:10	22.66
8/29/2010 16:20	22.82
8/29/2010 16:30	22.94
8/29/2010 16:40	23.09
8/29/2010 16:50	23.21
8/29/2010 17:00	23.28

8/29/2010 17:10	23.38
8/29/2010 17:20	23.47
8/29/2010 17:30	23.52
8/29/2010 17:40	23.57
8/29/2010 17:50	23.64
8/29/2010 18:00	23.69
8/29/2010 18:10	23.69
8/29/2010 18:20	23.69
8/29/2010 18:30	23.69
8/29/2010 18:40	23.67
8/29/2010 18:50	23.64
8/29/2010 19:00	23.59
8/29/2010 19:10	23.55
8/29/2010 19:20	23.50
8/29/2010 19:30	23.42
8/29/2010 19:40	23.38
8/29/2010 19:50	23.28
8/29/2010 20:00	23.21
8/29/2010 20:10	23.11
8/29/2010 20:20	23.02
8/29/2010 20:30	22.92
8/29/2010 20:40	22.80
8/29/2010 20:50	22.68
8/29/2010 21:00	22.59
8/29/2010 21:10	22.49
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8/30/2010 8:40	17.20

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8/30/2010 16:00	22.37
8/30/2010 16:10	22.54
8/30/2010 16:20	22.66
8/30/2010 16:30	22.80

8/30/2010 16:40	22.92
8/30/2010 16:50	23.04
8/30/2010 17:00	23.14
8/30/2010 17:10	23.23
8/30/2010 17:20	23.30
8/30/2010 17:30	23.38
8/30/2010 17:40	23.40
8/30/2010 17:50	23.45
8/30/2010 18:00	23.47
8/30/2010 18:10	23.47
8/30/2010 18:20	23.50
8/30/2010 18:30	23.47
8/30/2010 18:40	23.47
8/30/2010 18:50	23.42
8/30/2010 19:00	23.40
8/30/2010 19:10	23.35
8/30/2010 19:20	23.30
8/30/2010 19:30	23.23
8/30/2010 19:40	23.16
8/30/2010 19:50	23.09
8/30/2010 20:00	23.02
8/30/2010 20:10	22.92
8/30/2010 20:20	22.80
8/30/2010 20:30	22.71
8/30/2010 20:40	22.61
8/30/2010 20:50	22.49
8/30/2010 21:00	22.39
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8/31/2010 11:50	19.82
8/31/2010 12:00	20.01
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8/31/2010 14:30	20.82
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8/31/2010 16:00	22.47

8/31/2010 16:10	22.63
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8/31/2010 16:40	23.06
8/31/2010 16:50	23.18
8/31/2010 17:00	23.26
8/31/2010 17:10	23.33
8/31/2010 17:20	23.40
8/31/2010 17:30	23.45
8/31/2010 17:40	23.47
8/31/2010 17:50	23.47
8/31/2010 18:00	23.50
8/31/2010 18:10	23.47
8/31/2010 18:20	23.42
8/31/2010 18:30	23.40
8/31/2010 18:40	23.35
8/31/2010 18:50	23.30
8/31/2010 19:00	23.23
8/31/2010 19:10	23.18
8/31/2010 19:20	23.11
8/31/2010 19:30	23.06
8/31/2010 19:40	22.99
8/31/2010 19:50	22.90
8/31/2010 20:00	22.78
8/31/2010 20:10	22.68
8/31/2010 20:20	22.59
8/31/2010 20:30	22.47
8/31/2010 20:40	22.35
8/31/2010 20:50	22.23
8/31/2010 21:00	22.13
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8/31/2010 22:30	21.22
8/31/2010 22:40	21.15
8/31/2010 22:50	21.06
8/31/2010 23:00	20.96
8/31/2010 23:10	20.89
8/31/2010 23:20	20.79
8/31/2010 23:30	20.72
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8/31/2010 23:50	20.53

9/1/2010 0:00 20.46

TEMPERATURE ENHANCEMENT PLAN
SANG RUN TEMPERATURE EXCURSIONS

**Deep Creek Station
Youghiogheny River**

Summary of Temperature Excursions June 1, 2010 to August 31, 2010				
Date	Duration	Max Temp (°C)	Cause	Remarks
June 2, 2010	10 minutes	25.63	(1) Model Uncertainty	The protocol was conducted, and it did not require a release as flow exceeded 150 cfs.
June 27, 2010	1 hour 20 minutes	25.69	(1) Model Uncertainty	The protocol was conducted, and a release was made from 12:45 - 14:45.
June 30, 2010	1 hour	25.46	(1) Model Uncertainty	The protocol was conducted, and a release was made from 14:00 - 15:15.
July 14, 2010	30 Minutes	25.09	(1) Model Uncertainty	The protocol was conducted, and it did not require a release on this day. CFS was > 150 from the first protocol call-in at 7:00 AM until approximately 19:00.
July 20, 2010	20 Minutes	25.07	(1) Model Uncertainty	The protocol was conducted, and a release was made from 12:30 - 14:30, using both units.
July 21, 2010	20 Minutes	25.04	(1) Model Uncertainty	The protocol was conducted and, a 1 hour release was made from 13:00 - 14:00, using both units.
July 24, 2010	30 minutes	25.19	(1) Model Uncertainty	The protocol called for a 2 hour release, starting at 11:00, and it was synchronized with a whitewater release from 11:00 - 14:00. Both units ran an additional 2 hours until 16:00.
July 28, 2010	20 Minutes	25.19	(1) Model Uncertainty	The protocol called for a 2 hour release, starting at 12:30. Both units generated 12:30 - 14:45.
August 15, 2010	20 Minutes	25.21	(1) Model Uncertainty	The protocol was conducted and it called for a 2 hour release starting at 12:30. Both units ran full power for 2 hours.

TEMPERATURE ENHANCEMENT PLAN DAILY SHEETS

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

171 = CFS River Flow at Oakland

June 1, 2010

Simulate a Ra

Print info for file

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	21.48 (23 to 26.4)	Temperature Plan not Required Today - Flow Exceeds 150 CFS
0900	(23 to 25.9)	
1100	(23 to 25.4)	
1200	(23 to 25.3)	
1400	(23 to 25.2)	
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	TSTRMS	Cloud Cover, Elkins WV
T7	19.18	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	171.00	River Flow at Oakland		

PSJ 6-1-10

* START OF TEMP PROTOCOL

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

151 = CFS River Flow at Oakland

June 2, 2010

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)	Temperature Plan not Required Today - Flow Exceeds 150 CFS
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	HAZE	Cloud Cover, Elkins WV
T7	18.52	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	151.00	River Flow at Oakland		

Jed 6-2-10

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

118 = CFS River Flow at Oakland

June 3, 2010

Simulate a Ra

Print Info for file

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	22.85 (23 to 26.4)	Check Again at 0900
0900	22.23 (23 to 25.9)	Check Again at 1100
1100	24.61 (23 to 25.4)	Check Again at 1200
1200	24.31 (23 to 25.3)	Check Again at 1400
1400	23.64 (23 to 25.2)	Check Again at 1500
1500	23.22	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	19.12	River Temp Sang Run @700		
T9	19.30	River Temp Sang Run @900		
T11	20.02	River Temp Sang Run @1100		
T12	20.53	River Temp Sang Run @1200		
T14	21.78	River Temp Sang Run @1400		
T15	22.09	River Temp Sang Run @1500		
Q	118.00	River Flow at Oakland		

R. McKenna 6/03/10

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

115 = GFS River Flow at Oakland

June 4, 2010

Simulate a Ra

Print Info for file

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	27.79 (23 to 26.4)	Check Again at 0900
0900	21.95 (23 to 25.9)	Check Again at 1100
1100	24.79 (23 to 25.4)	Check Again at 1200
1200	25.24 (23 to 25.3)	Check Again at 1400
1400		Check Again at 1500
1500		Check Again Tomorrow at 0700

Tair °C	28.33	Air Temp, Elkins WV - Degree C
CCF	64	Cloud Cover Factor, Elkins WV
T7	19.08	River Temp Sang Run @700
T9	19.30	River Temp Sang Run @900
T11	20.25	River Temp Sang Run @1100
T12	21.51	River Temp Sang Run @1200
T14	18.43	River Temp Sang Run @1400
T15	18.55	River Temp Sang Run @1500
Q	115.00	River Flow at Oakland

83
SHWRS

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

Chmcken 6/04/10

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

Simulate a Ra

93 = CFS River Flow at Oakland

June 5, 2010

Print Info for file

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	22.36 (23 to 26.4)	Check Again at 0900
0900	22.35 (23 to 25.9)	Check Again at 1100
1100	24.54 (23 to 25.4)	Check Again at 1200
1200	24.47 (23 to 25.3)	Check Again at 1400
1400	23.05 (23 to 25.2)	Check Again at 1500
1500	23.56	Check Again Tomorrow at 0700

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	20.39	River Temp Sang Run @700		
T9	20.50	River Temp Sang Run @900		
T11	21.14	River Temp Sang Run @1100		
T12	21.67	River Temp Sang Run @1200		
T14	21.85	River Temp Sang Run @1400		
T15	22.70	River Temp Sang Run @1500		
Q	93.00	River Flow at Oakland		

R. McKenna 6/05/10

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

692 = CFS River Flow at Oakland

June 6, 2010

Simulate a Ra

Print Info for file

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	24.0 (23 to 26.4)	Temperature Plan not Required Today - Flow Exceeds 150 CFS
0900	(23 to 25.9)	
1100	(23 to 25.4)	
1200	(23 to 25.3)	
1400	(23 to 25.2)	
1500		

Tair °C	25.00	Air Temp, Elkins WV - Degree C
CCF	100	Cloud Cover Factor, 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	692.00	River Flow at Oakland

77
TSTRMS

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

R. McKenna
6/06/10

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

1660 = CFS River Flow at Oakland

June 7, 2010

Simulate a Ra

Print Info for file

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

Tair °C	21.11	Air Temp, Elkins WV - Degree C	70	Air Temp, Elkins WV - Degree F
CCF	36	Cloud Cover Factor, Elkins WV	PTSUNY	Cloud Cover, Elkins WV
T7	16.90	River Temp Sang Run @700	<i>Rmcferr</i> <i>6/07/10</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	1660.00	River Flow at Oakland		

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

622 = CFS River Flow at Oakland

June 8, 2010

Simulate a Ra

Print Info for file

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

Tair °C	21.67	Air Temp, Elkins WV - Degree C
CCF	36	Cloud Cover Factor, Elkins WV
T7	15.29	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	622.00	River Flow at Oakland

71
HAZE

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

J-D 6-8-10

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

378 = CFS River Flow at Oakland

June 9, 2010

Simulate a Ra

Print Info for file

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

Tair °C	21.67	Air Temp, Elkins WV - Degree C	71	Air Temp, Elkins WV - Degree F
CCF	36	Cloud Cover Factor, Elkins WV	PTCLDY	Cloud Cover, Elkins WV
T7	16.43	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	378.00	River Flow at Oakland		

JG 6-9-10

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

1200 = CFS River Flow at Oakland

June 10, 2010

Simulate a Ra

Print Info for file

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	22.54 (23 to 26.4)	Temperature Plan not Required Today - Flow Exceeds 150 CFS
0900	(23 to 25.9)	
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	16.15	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	1200.00	River Flow at Oakland		

[Handwritten Signature] 6-10-10

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

Simulate a Ra

538 = CFS River Flow at Oakland

June 11, 2010

Print Info for file

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	(23 to 25.4)	Temperature Plan not Required Today - Flow Exceeds 150 CFS
0900	(23 to 25.9)	
1100	(23 to 25.4)	
1200	(23 to 25.3)	
1400	(23 to 25.2)	
1500		

Tair °C	12.22	Air Temp, Elkins WV - Degree C	54	Air Temp, Elkins WV - Degree F
CCF	36	Cloud Cover Factor, Elkins WV	HAZE	Cloud Cover, Elkins WV
T7	16.96	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	538.00	River Flow at Oakland		

[Handwritten Signature] 6-11-10

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

373 = CFS River Flow at Oakland

June 12, 2010

Simulate a Ra

Print info for file

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

Tair °C	15.00	Air Temp, Elkins WV - Degree C
CCF	36	Cloud Cover Factor, Elkins WV
T7	17.72	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	373.00	River Flow at Oakland

59
PTCLDY

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

R. McKenna
6/12/10

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

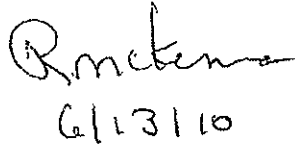
333 = CFS River Flow at Oakland

June 13, 2010

Simulate a Ra

Print Info for file

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

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	19.52	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	333.00	River Flow at Oakland		

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

252 = CFS River Flow at Oakland

June 14, 2010

Simulate a Ra

Print Info for file

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	21.60 (23 to 26.4)	Temperature Plan not Required Today - Flow Exceeds 150 CFS
0900	(23 to 25.9)	
1100	(23 to 25.4)	
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	100	Cloud Cover Factor, Elkins WV	RAIN	Cloud Cover, Elkins WV
T7	20.06	River Temp Sang Run @700	<i>R. McKenna</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	252.00	River Flow at Oakland		

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN


218 = CFS River Flow at Oakland

June 15, 2010

Simulate a Ra

Print info for file

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	24.59 (23 to 26.4)	Temperature Plan not Required Today - Flow Exceeds 150 CFS
0900	(23 to 25.9)	
1100	(23 to 25.4)	
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	100	Cloud Cover Factor, Elkins WV	RAIN	Cloud Cover, Elkins WV
T7	20.04	River Temp Sang Run @700	 6/15/10	
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	218.00	River Flow at Oakland		

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

194 = CFS River Flow at Oakland

June 16, 2010

Simulate a Ra

Print Info for file

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	21.51 (23 to 26.4)	Temperature Plan not Required Today - Flow Exceeds 150 CFS
0900	(23 to 25.9)	
1100	(23 to 25.4)	
1200	(23 to 25.3)	
1400	(23 to 25.2)	
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	RAIN	Cloud Cover, Elkins WV
T7	19.27	River Temp Sang Run @700	<i>R. McNamee</i> 6/16/10	
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	194.00	River Flow at Oakland		

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

194 = CFS River Flow at Oakland

June 17, 2010

Simulate a Ra

Print Info for file

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	23.11 (23 to 26.4)	Temperature Plan not Required Today - Flow Exceeds 150 CFS
0900	(23 to 25.9)	
1100	(23 to 25.4)	
1200	(23 to 25.3)	
1400	(23 to 25.2)	
1500		

Tair °C	26.11	Air Temp, Elkins WV - Degree C	79	Air Temp, Elkins WV - Degree F
CCF	1	Cloud Cover Factor, Elkins WV	SUNNY	Cloud Cover, Elkins WV
T7	19.49	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	194.00	River Flow at Oakland		

[Signature] 6-17-10

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

153 = CFS River Flow at Oakland

June 18, 2010

Simulate a Ra

Print info for file

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	22.54 (23 to 26.4)	Temperature Plan not Required Today - Flow Exceeds 150 CFS
0900	(23 to 25.9)	
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	36	Cloud Cover Factor, Elkins WV	HAZE	Cloud Cover, Elkins WV
T7	17.67	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	153.00	River Flow at Oakland		

JJ 6-18-10

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

130 = CFS River Flow at Oakland

June 19, 2010

Simulate a R

Print Info for file

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	22.71 (23 to 26.4)	Check Again at 0900
0900	21.09 (23 to 25.9)	Check Again at 1100
1100	(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	19.11	River Temp Sang Run @700		
T9	19.07	River Temp Sang Run @900		
T11	20.37	River Temp Sang Run @1100		
T12	-	River Temp Sang Run @1200		
T14	-	River Temp Sang Run @1400		
T15	-	River Temp Sang Run @1500		
Q	130.00	River Flow at Oakland		

JST 6-19-10

** Note:*
 Decided to run till 3:00pm to satisfy both the
 WNK release + the temp. protocol.
 JST.

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

112 = CFS River Flow at Oakland

June 20, 2010

Simulate a R:

Print info for file

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	26.37 (23 to 26.4)	Check Again at 0900
0900	25.52 (23 to 25.9)	Check Again at 1100
1100	(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	36	Cloud Cover Factor, Elkins WV	PTCLDY	Cloud Cover, Elkins WV
T7	20.69	River Temp Sang Run @700		
T9	20.92	River Temp Sang Run @900		
T11	21.51	River Temp Sang Run @1100		
T12	--	River Temp Sang Run @1200		
T14	--	River Temp Sang Run @1400		
T15	--	River Temp Sang Run @1500		
Q	112.00	River Flow at Oakland		

[Handwritten Signature] 6-20-10

Note: Marketers decided to run D.C. starting @ 10:37 for 2 hrs. We also have a temp run for 2 hrs. We will satisfy both by running 19 MW until 1500 hrs. Water is updated.

JSS.

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

58 = CFS River Flow at Oakland

June 21, 2010

Simulate a R:

Print Info for file

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	23.96 (23 to 26.4)	Check Again at 0900
0900	23.72 (23 to 25.9)	Check Again at 1100
1100	(23 to 25.4)	Release at 1230 for 2 Hours
1200	(23 to 25.3)	--
1400	(23 to 25.2)	--
1500		--

Jef

Tair °C	30.00	Air Temp, Elkins WV - Degree C	86	Air Temp, Elkins WV - Degree F
CCF	36	Cloud Cover Factor, Elkins WV	HAZE	Cloud Cover, Elkins WV
T7	20.04	River Temp Sang Run @700		
T9	19.94	River Temp Sang Run @900		
T11	21.46	River Temp Sang Run @1100		
T12	--	River Temp Sang Run @1200		
T14	--	River Temp Sang Run @1400		
T15	--	River Temp Sang Run @1500		
Q	98.00	River Flow at Oakland		

Jef 6-21-10

Note: We will run until 1500hrs to satisfy both the WWT & temp enhancement protocol.

*Just. Sh. Felt
6-21-10*

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

85 = CFS River Flow at Oakland

June 22, 2010

Simulate a Ra

Print Info for file

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	24.31 (23 to 26.4)	Check Again at 0900
0900	24.25 (23 to 25.9)	Check Again at 1100
1100	(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
CCF	64	Cloud Cover Factor, Elkins WV
T7	20.57	River Temp Sang Run @700
T9	20.65	River Temp Sang Run @900
T11	21.20	River Temp Sang Run @1100
T12	--	River Temp Sang Run @1200
T14	--	River Temp Sang Run @1400
T15	--	River Temp Sang Run @1500
Q	85.00	River Flow at Oakland

87
SHWRS

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

R. McKenna
6/22/10

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

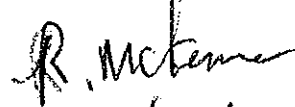
88 = CFS River Flow at Oakland

June 23, 2010

Simulate a R

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	(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	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	21.20	River Temp Sang Run @700	 6/23/10	
T9	21.50	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	88.00	River Flow at Oakland		

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

93 = CFS River Flow at Oakland

June 24, 2010

Simulate a R:

Print Info for file

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	23.32 (23 to 26.4)	Check Again at 0900
0900	24.23 (23 to 25.9)	Check Again at 1100
1100	(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
CCF	64	Cloud Cover Factor, Elkins WV
T7	21.44	River Temp Sang Run @700
T9	21.72	River Temp Sang Run @900
T11	22.48	River Temp Sang Run @1100
T12	--	River Temp Sang Run @1200
T14	--	River Temp Sang Run @1400
T15	--	River Temp Sang Run @1500
Q	93.00	River Flow at Oakland

85
SHWRS

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

Q McFerson
6/24/10

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN


293 = CFS River Flow at Oakland

June 25, 2010

Simulate a R

Print Info for file

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	24.31 (23 to 26.4)	Temperature Plan not Required Today - Flow Exceeds 150 CFS
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	36	Cloud Cover Factor, Elkins WV	HAZE	Cloud Cover, Elkins WV
T7	21.32	River Temp Sang Run @700	 6/25/10	
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	293.00	River Flow at Oakland		

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

130 = CFS River Flow at Oakland

June 26, 2010

Simulate a R

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	22.31 (23 to 25.9)	Check Again at 1100
1100	(23 to 25.4)	Release at 1230 for 2 Hours
1200	(23 to 25.3)	---
1400	(23 to 25.2)	---
1500		---

Jed
6-26-10

Tair °C	30.00	Air Temp, Elkins WV - Degree C	86	Air Temp, Elkins WV - Degree F
CCF	36	Cloud Cover Factor, Elkins WV	HAZE	Cloud Cover, Elkins WV
T7	19.74	River Temp Sang Run @700		
T9	19.72	River Temp Sang Run @900		
T11	21.11	River Temp Sang Run @1100		
T12	--	River Temp Sang Run @1200		
T14	--	River Temp Sang Run @1400		
T15	--	River Temp Sang Run @1500		
Q	130.00	River Flow at Oakland		

* WWR today from 1100-1400
 then we will continue to run
 until 1430 to meet the
 TEMP protocol -
 JSO.

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

98 = CFS River Flow at Oakland

June 27, 2010

Simulate a R

Print info for file

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	24.36 (23 to 26.4)	Check Again at 0900
0900	24.56 (23 to 25.9)	Check Again at 1100
1100	(23 to 25.4)	Release at 1230 for 2 Hours
1200	(23 to 25.3)	--
1400	(23 to 25.2)	--
1500		--

J. J.

Tair °C	32.22	Air Temp, Elkins WV - Degree C	90	Air Temp, Elkins WV - Degree F
CCF	64	Cloud Cover Factor, Elkins WV	SHWRS	Cloud Cover, Elkins WV
T7	20.74	River Temp Sang Run @700		
T9	21.05	River Temp Sang Run @900		
T11	22.64	River Temp Sang Run @1100		
T12	--	River Temp Sang Run @1200		
T14	--	River Temp Sang Run @1400		
T15	--	River Temp Sang Run @1500		
Q	98.00	River Flow at Oakland		

J. J.
6-27-10

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

93 = CFS River Flow at Oakland

June 28, 2010

Simulate a R

Print Info for file

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	22.67 (23 to 26.4)	Check Again at 0900
0900	22.80 (23 to 25.9)	Check Again at 1100
1100	(23 to 25.4)	Release at 1230 for 2 Hours
1200	(23 to 25.3)	
1400	(23 to 25.2)	
1500		

9-1 6-28-10

Tair °C	27.22	Air Temp, Elkins WV - Degree C	81	Air Temp, Elkins WV - Degree F
CCF	100	Cloud Cover Factor, Elkins WV	RAIN	Cloud Cover, Elkins WV
T7	21.87	River Temp Sang Run @700		
T9	21.96	River Temp Sang Run @900		
T11	22.75	River Temp Sang Run @1100		
T12	--	River Temp Sang Run @1200		
T14	--	River Temp Sang Run @1400		
T15	--	River Temp Sang Run @1500		
Q	93.00	River Flow at Oakland		

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

85 = CFS River Flow at Oakland

June 29, 2010

Simulate a R

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	24.69 (23 to 25.9)	Check Again at 1100
1100	(23 to 25.4)	Release at 1230 for 2 Hours
1200	(23 to 25.3)	--
1400	(23 to 25.2)	--
1500		--

Tair °C	26.11	Air Temp, Elkins WV - Degree C	79	Air Temp, Elkins WV - Degree F
CCF	9	Cloud Cover Factor, Elkins WV	MOSUNNY	Cloud Cover, Elkins WV
T7	21.26	River Temp Sang Run @700		
T9	21.54	River Temp Sang Run @900		
T11	22.63	River Temp Sang Run @1100		
T12	--	River Temp Sang Run @1200		
T14	--	River Temp Sang Run @1400		
T15	--	River Temp Sang Run @1500		
Q	85.00	River Flow at Oakland		

JSD 6-29-10

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

82 = CFS River Flow at Oakland

June 30, 2010

Simulate a R:

Print info for file

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	23.03 (23 to 26.4)	Check Again at 0900
0900	23.50 (23 to 25.9)	Check Again at 1100
1100	24.36 (23 to 25.4)	Check Again at 1200
1200	24.27 (23 to 25.3)	Check Again at 1400
1400	(23 to 25.2)	Release ASAP - not later than 1430 for 1 hour
1500		

Tair °C	23.89	Air Temp, Elkins WV - Degree C
CCF	1	Cloud Cover Factor, Elkins WV
T7	19.24	River Temp Sang Run @700
T9	19.54	River Temp Sang Run @900
T11	20.42	River Temp Sang Run @1100
T12	21.11	River Temp Sang Run @1200
T14	23.84	River Temp Sang Run @1400
T15	-	River Temp Sang Run @1500
Q	82.00	River Flow at Oakland

75
SUNNY

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

J-J 6-30-10

- 1 hr release - 1400 - 1500 hr

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

62 = CFS River Flow at Oakland

July 1, 2010

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	22.68 (23 to 25.9)	Check Again at 1100
1100	23.84 (23 to 25.4)	Check Again at 1200
1200	24.09 (23 to 25.3)	Check Again at 1400
1400	23.66 (23 to 25.2)	Check Again at 1500
1500	24.36	Check Again Tomorrow at 0700

Tair °C	22.22	Air Temp, Elkins WV - Degree C	72	Air Temp, Elkins WV - Degree F
CCF	1	Cloud Cover Factor, Elkins WV	SUNNY	Cloud Cover, Elkins WV
T7	17.45	River Temp Sang Run @700		
T9	17.44	River Temp Sang Run @900		
T11	19.10	River Temp Sang Run @1100		
T12	20.39	River Temp Sang Run @1200		
T14	22.16	River Temp Sang Run @1400		
T15	23.31	River Temp Sang Run @1500		
Q	62.00	River Flow at Oakland		

R. McKenna

7/01/2010

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

53 = CFS River Flow at Oakland

July 2, 2010

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	23.24 (23 to 25.9)	Check Again at 1100
1100	23.92 (23 to 25.4)	Check Again at 1200
1200	24.00 (23 to 25.3)	Check Again at 1400
1400	20.03 (23 to 25.2)	Check Again at 1500
1500	20.38	Check Again Tomorrow at 0700

Tair °C	25.00	Air Temp, Elkins WV - Degree C	77	Air Temp, Elkins WV - Degree F
CCF	1	Cloud Cover Factor, Elkins WV	SUNNY	Cloud Cover, Elkins WV
T7	16.26	River Temp Sang Run @700		
T9	16.18	River Temp Sang Run @900		
T11	17.91	River Temp Sang Run @1100		
T12	19.21	River Temp Sang Run @1200		
T14	18.75	River Temp Sang Run @1400		
T15	19.36	River Temp Sang Run @1500		
Q	53.00	River Flow at Oakland		

R. McKenna 7/02/10

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

Simulate a Ra

36 = CFS River Flow at Oakland

July 3, 2010

Print Info for file

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	25.15 (23 to 26.4)	Check Again at 0900
0900	25.87 (23 to 25.9)	Check Again at 1100
1100	24.71 (23 to 25.4)	Check Again at 1200
1200	(23 to 25.3)	Release ASAP - not later than 1230 for 1 hour
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	HAZE	Cloud Cover, Elkins WV
T7	16.74	River Temp Sang Run @700		
T9	17.67	River Temp Sang Run @900		
T11	18.83	River Temp Sang Run @1100		
T12	20.91	River Temp Sang Run @1200		
T14	--	River Temp Sang Run @1400		
T15	--	River Temp Sang Run @1500		
Q	36.00	River Flow at Oakland		

R. Mekema 7/03/2010

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

33 = CFS River Flow at Oakland

July 4, 2010

Simulate a Ra

Print Info for file

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	26.06 (23 to 26.4)	Check Again at 0900
0900	(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	30.58	Air Temp, Elkins WV - Degree C
CCF	36	Cloud Cover Factor, Elkins WV
T7	18.04	River Temp Sang Run @700
T9	18.50	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	33.00	River Flow at Oakland

87
HAZE

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

R. McKenna
7/04/2010

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

32 = CFS River Flow at Oakland

July 5, 2010

Simulate a Ra

Print Info for file

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	(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		--

WWR from 11AM - 2PM covers this stretch

Tair °C	32.22	Air Temp, Elkins WV - Degree C	90	Air Temp, Elkins WV - Degree F
CCF	38	Cloud Cover Factor, Elkins WV	HAZE	Cloud Cover, Elkins WV
T7	19.34	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 7/05/2010

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

29 = CFS River Flow at Oakland

July 6, 2010

Simulate a Ra

Print Info for file

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	(23 to 26.4)	Release at 1100 for 2 Hours <i>[Handwritten Signature]</i> 7-6-10
0900	(23 to 25.9)	
1100	(23 to 25.4)	
1200	(23 to 25.3)	
1400	(23 to 25.2)	
1500		

Tair °C	33.33	Air Temp, Elkins WV - Degree C	92	Air Temp, Elkins WV - Degree F
CCF	36	Cloud Cover Factor, Elkins WV	HAZE	Cloud Cover, Elkins WV
T7	20.26	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	29.00	River Flow at Oakland		

[Handwritten Signature]

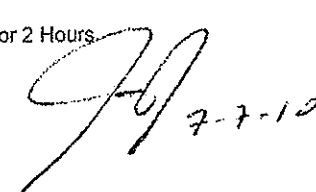
YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

27 = CFS River Flow at Oakland

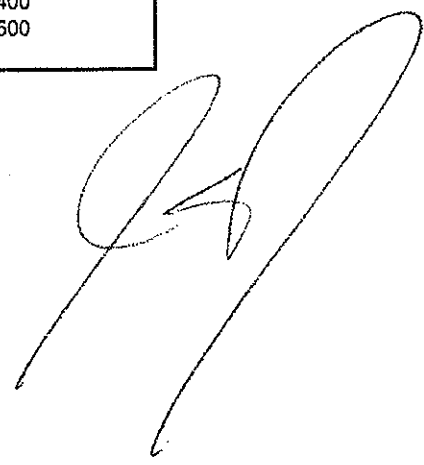
July 7, 2010

Simulate a Ra

Print Info for file

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	(23 to 28.4)	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	33.33	Air Temp, Elkins WV - Degree C	92	Air Temp, Elkins WV - Degree F
CCF	36	Cloud Cover Factor, Elkins WV	HAZE	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	27.00	River Flow at Oakland		



YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

25 = CFS River Flow at Oakland

July 8, 2010

Simulate a Ra

Print Info for file

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

Tair °C	33.33	Air Temp, Elkins WV - Degree C	92	Air Temp, Elkins WV - Degree F
CCF	36	Cloud Cover Factor, Elkins WV	HAZE	Cloud Cover, Elkins WV
T7	20.70	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	25.00	River Flow at Oakland		

J. Miller

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

25 = CFS River Flow at Oakland

July 9, 2010

Simulate a Ra

Print Info for file

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	25.15 (23 to 26.4)	Check Again at 0900
0900	25.07 (23 to 25.9)	Check Again at 1100
1100	(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	100	Cloud Cover Factor, Elkins WV	RAIN	Cloud Cover, Elkins WV
T7	20.16	River Temp Sang Run @700		
T9	20.26	River Temp Sang Run @900		
T11	21.92	River Temp Sang Run @1100		
T12	--	River Temp Sang Run @1200		
T14	--	River Temp Sang Run @1400		
T15	--	River Temp Sang Run @1500		
Q	25.00	River Flow at Oakland		

Handwritten signature and initials

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

25 = CFS River Flow at Oakland

July 10, 2010

Simulate a Ra

Print info for file

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	24.42 (23 to 26.4)	Check Again at 0900
0900	25.45 (23 to 25.9)	Check Again at 1100
1100	25.03 (23 to 25.4)	Check Again at 1200
1200	(23 to 25.3)	Release ASAP - not later than 1230 for 1 hour
1400	(23 to 25.2)	--
1500		--

Tair °C	26.11	Air Temp, Elkins WV - Degree C	79	Air Temp, Elkins WV - Degree F
CCF	100	Cloud Cover Factor, Elkins WV	VARCLDY	Cloud Cover, Elkins WV
T7	20.65	River Temp Sang Run @700		
T9	21.54	River Temp Sang Run @900		
T11	22.41	River Temp Sang Run @1100		
T12	23.71	River Temp Sang Run @1200		
T14	-	River Temp Sang Run @1400		
T15	-	River Temp Sang Run @1500		
Q	25.00	River Flow at Oakland		

[Handwritten signatures and date]
 [Signature] [Signature] 7/10/2010

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

26 = CFS River Flow at Oakland

July 11, 2010

Simulate a Ra

Print info for file

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	25.07 (23 to 28.4)	Check Again at 0900
0900	24.60 (23 to 25.9)	Check Again at 1100
1100	(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
CCF	64	Cloud Cover Factor, Elkins WV
T7	18.45	River Temp Sang Run @700
T9	18.27	River Temp Sang Run @900
T11	20.45	River Temp Sang Run @1100
T12	--	River Temp Sang Run @1200
T14	--	River Temp Sang Run @1400
T15	--	River Temp Sang Run @1500
Q	26.00	River Flow at Oakland

83
MOCLDY

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

R. McKenna
6/11/10

July 11, 2010

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

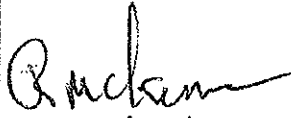
22 = CFS River Flow at Oakland

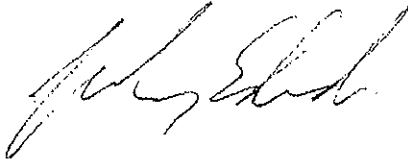
July 12, 2010

Simulate a Ra

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	23.58 (23 to 25.9)	Check Again at 1100
1100	23.13 (23 to 25.4)	Check Again at 1200
1200	22.75 (23 to 25.3)	Check Again at 1400
1400	 (23 to 25.2)	Check Again at 1500
1500		Check Again Tomorrow at 0700

Tair °C	25.00	Air Temp, Elkins WV - Degree C	77	Air Temp, Elkins WV - Degree F
CCF	100	Cloud Cover Factor, Elkins WV	TSTRMS	Cloud Cover, Elkins WV
T7	19.22	River Temp Sang Run @700	 7/12/2010	
T9	19.33	River Temp Sang Run @900		
T11	19.93	River Temp Sang Run @1100		
T12	20.11	River Temp Sang Run @1200		
T14	18.35	River Temp Sang Run @1400		
T15	18.90	River Temp Sang Run @1500		
Q	22.00	River Flow at Oakland		



YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

25 = CFS River Flow at Oakland

July 13, 2010

Simulate a Ra

Print Info for file

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	25.13 (23 to 26.4)	Check Again at 0900
0900	25.32 (23 to 25.9)	Check Again at 1100
1100	24.29 (23 to 25.4)	Check Again at 1200
1200	24.13 (23 to 25.3)	Check Again at 1400
1400	23.85 (23 to 25.2)	Check Again at 1500
1500	23.70	Check Again Tomorrow at 0700

Tair °C	27.22	Air Temp, Elkins WV - Degree C	81	Air Temp, Elkins WV - Degree F
CCF	64	Cloud Cover Factor, Elkins WV	MOCLDY	Cloud Cover, Elkins WV
T7	19.82	River Temp Sang Run @700		
T9	20.01	River Temp Sang Run @900		
T11	20.51	River Temp Sang Run @1100		
T12	21.03	River Temp Sang Run @1200		
T14	22.20	River Temp Sang Run @1400		
T15	22.67	River Temp Sang Run @1500		
Q	25.00	River Flow at Oakland		

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

168 = CFS River Flow at Oakland

July 14, 2010

Simulate a Ra

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	23.21 (23 to 26.4)	Temperature Plan not Required Today - Flow Exceeds 150 CFS
0900	(23 to 25.9)	
1100	(23 to 25.4)	
1200	(23 to 25.3)	
1400	(23 to 25.2)	
1500		

Print info for file

NOT RFO
Sh...

Tair °C	28.89	Air Temp, Elkins WV - Degree C
CCF	64	Cloud Cover Factor, Elkins WV
T7	20.70	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	168.00	River Flow at Oakland

84
SHWRS

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

R. McKenna
7/14/2010

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

90 = CFS River Flow at Oakland

July 15, 2010

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	25.39 (23 to 25.9)	Check Again at 1100
1100	(23 to 25.4)	Release at 1230 for 2 Hours
1200	(23 to 25.3)	--
1400	(23 to 25.2)	--
1500		--

John H. [Signature]
7/15/10

Tair °C	31.11	Air Temp, Elkins WV - Degree C	88	Air Temp, Elkins WV - Degree F
CCF	36	Cloud Cover Factor, Elkins WV	PTCLDY	Cloud Cover, Elkins WV
T7	21.05	River Temp Sang Run @700		
T9	21.45	River Temp Sang Run @900		
T11	22.36	River Temp Sang Run @1100		
T12	-	River Temp Sang Run @1200		
T14	-	River Temp Sang Run @1400		
T15	-	River Temp Sang Run @1500		
Q	90.00	River Flow at Oakland		

[Signature]
7.15.10

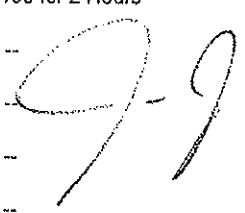
YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

48 = CFS River Flow at Oakland

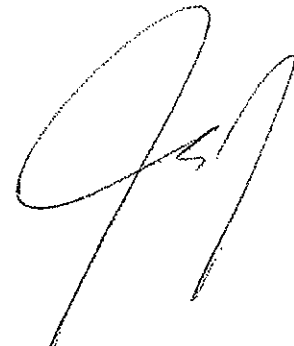
July 16, 2010

Simulate a Ra

Print Info for file

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	(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	30.56	Air Temp, Elkins WV - Degree C	87	Air Temp, Elkins WV - Degree F
CCF	36	Cloud Cover Factor, Elkins WV	PTCLDY	Cloud Cover, Elkins WV
T7	21.16	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	48.00	River Flow at Oakland		

Coordinates w/ WWT  7-16-10

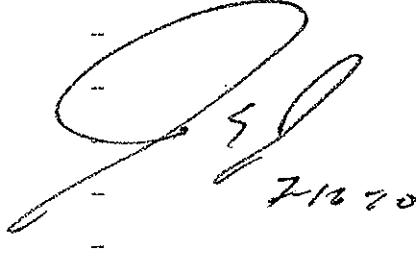
YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

36 = CFS River Flow at Oakland

July 17, 2010

Simulate a Ra

Print info for file

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	(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	PTCLDY	Cloud Cover, Elkins WV
T7	20.57	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	36.00	River Flow at Oakland		

A Corncodes w/ WNR

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

36 = CFS River Flow at Oakland

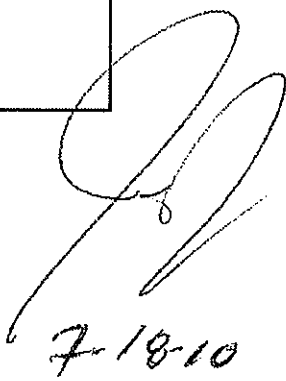
July 18, 2010

Simulate a Ra

Print Info for file

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	25.25 (23 to 26.4)	Check Again at 0900 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	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	21.59	River Temp Sang Run @700		
T9	21.92	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		



7-18-10

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

78 = CFS River Flow at Oakland

July 19, 2010

Simulate a Ra

Print Info for file

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	24.76 (23 to 26.4)	Check Again at 0900
0900	25.11 (23 to 25.9)	Check Again at 1100
1100	(23 to 25.4)	Release at 1230 for 2 Hours
1200	(23 to 25.3)	-
1400	(23 to 25.2)	-
1500		-

[Handwritten signature]
7-19-10

Tair °C	30.00	Air Temp, Elkins WV - Degree C	86	Air Temp, Elkins WV - Degree F
CCF	84	Cloud Cover Factor, Elkins WV	SHWRS	Cloud Cover, Elkins WV
T7	21.44	River Temp Sang Run @700		
T9	21.82	River Temp Sang Run @900		
T11	22.70	River Temp Sang Run @1100		
T12	-	River Temp Sang Run @1200		
T14	-	River Temp Sang Run @1400		
T15	-	River Temp Sang Run @1500		
Q	78.00	River Flow at Oakland		

- WWH until 1400 hrs
- we ran until 1430 hrs for safety both

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

106 = CFS River Flow at Oakland

July 20, 2010

Simulate a Ra

Print info for file

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	23.22 (23 to 26.4)	Check Again at 0900
0900	23.63 (23 to 25.9)	Check Again at 1100
1100	(23 to 25.4)	Release at 1230 for 2 Hours <i>g</i>
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	100	Cloud Cover Factor, Elkins WV	TSTRMS	Cloud Cover, Elkins WV
T7	22.74	River Temp Sang Run @700		
T9	22.75	River Temp Sang Run @900		
T11	23.66	River Temp Sang Run @1100		
T12	--	River Temp Sang Run @1200		
T14	--	River Temp Sang Run @1400		
T15	--	River Temp Sang Run @1500		
Q	106.00	River Flow at Oakland		

g = 2010

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

70 = CFS River Flow at Oakland

July 21, 2010

Simulate a Ra

Print Info for file

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	24.18 (23 to 26.4)	Check Again at 0900
0900	24.14 (23 to 25.9)	Check Again at 1100
1100	25.11 (23 to 25.4)	Check Again at 1200
1200	24.94 (23 to 25.3)	Check Again at 1400
1400	25.07 (23 to 25.2)	Check Again at 1500
1500		Release ASAP - not later than 1530 for 1 hour

Tair °C	28.33	Air Temp, Elkins WV - Degree C	83	Air Temp, Elkins WV - Degree F
CCF	100	Cloud Cover Factor, Elkins WV	RAIN	Cloud Cover, Elkins WV
T7	22.55	River Temp Sang Run @700		
T9	22.48	River Temp Sang Run @900		
T11	22.63	River Temp Sang Run @1100		
T12	22.84	River Temp Sang Run @1200		
T14	23.82	River Temp Sang Run @1400		
T15	24.67	River Temp Sang Run @1500		
Q	70.00	River Flow at Oakland		

John Elkin
R. McKenna 7/21/2010

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

50 = CFS River Flow at Oakland

July 22, 2010

Simulate a Ra

Print Info for file

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	(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	29.44	Air Temp, Elkins WV - Degree C	85	Air Temp, Elkins WV - Degree F
CCF	1	Cloud Cover Factor, Elkins WV	SUNNY	Cloud Cover, Elkins WV
T7	22.02	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		

John Shuh
Rumelena 7/22/10

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

36 = CFS River Flow at Oakland

July 23, 2010

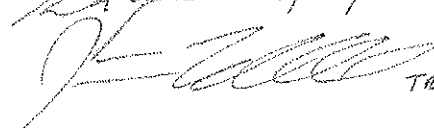
Simulate a Ra

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

Print Info for file

WWP FROM 1100 - 1400

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	21.72	River Temp Sang Run @700		
T9	22.11	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		

2/2/10 7/23/10

 TRUDELL

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

29 = CFS River Flow at Oakland

July 24, 2010

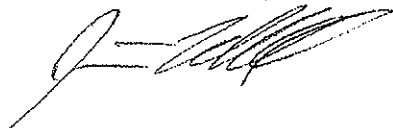
Simulate a Ra

Print Info for file

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

WWR from 11AM to 5PM stub

Tair °C	32.78	Air Temp, Elkins WV - Degree C	91	Air Temp, Elkins WV - Degree F
CCF	36	Cloud Cover Factor, Elkins WV	PTCLDY	Cloud Cover, Elkins WV
T7	22.68	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	29.00	River Flow at Oakland		



YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

25 = CFS River Flow at Oakland

July 25, 2010

Simulate a Ra

Print info for file

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	(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	100	Cloud Cover Factor, Elkins WV	TSTRMS	Cloud Cover, Elkins WV
T7	21.96	River Temp Sang Run @700	<i>Rmctm</i> <i>7/25/10</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	25.00	River Flow at Oakland		

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

112 = CFS River Flow at Oakland

July 26, 2010

Simulate a Ra

Print Info for file

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	23.86 (23 to 26.4)	Check Again at 0900
0900	23.81 (23 to 25.9)	Check Again at 1100
1100	(23 to 25.4)	Release at 1230 for 2 Hours <i>JP</i>
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	36	Cloud Cover Factor, Elkins WV	HAZE	Cloud Cover, Elkins WV
T7	21.57	River Temp Sang Run @700		
T9	21.86	River Temp Sang Run @900		
T11	23.33	River Temp Sang Run @1100		
T12	--	River Temp Sang Run @1200		
T14	--	River Temp Sang Run @1400		
T15	--	River Temp Sang Run @1500		
Q	112.00	River Flow at Oakland		

J. Miller

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

48 = CFS River Flow at Oakland

July 27, 2010

Simulate a Ra

Print info for file

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	24.70 (23 to 26.4)	Check Again at 0900
0900	24.41 (23 to 25.9)	Check Again at 1100
1100	(23 to 25.4)	Release at 1230 for 2 Hours <i>f</i>
1200	(23 to 25.3)	--
1400	(23 to 25.2)	--
1500		--

Tair °C	29.44	Air Temp, Elkins WV - Degree C
CCF	100	Cloud Cover Factor, Elkins WV
T7	20.43	River Temp Sang Run @700
T9	20.35	River Temp Sang Run @900
T11	22.05	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

85
TSTRMS

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

J. = alllll

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

30 = CFS River Flow at Oakland

July 28, 2010

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	25.65 (23 to 25.9)	Check Again at 1100
1100	(23 to 25.4)	Release at 1230 for 2 Hours <i>J</i>
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	19.96	River Temp Sang Run @700		
T9	19.98	River Temp Sang Run @900		
T11	21.83	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		

J = all

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

25 = CFS River Flow at Oakland

July 29, 2010

Simulate a Ra

Print info for file

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	25.57 (23 to 26.4)	Check Again at 0900
0900	(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
CCF	100	Cloud Cover Factor, Elkins WV
T7	21.94	River Temp Sang Run @700
T9	22.29	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	25.00	River Flow at Oakland

83
TSTRMS

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

R. McKenney

7/29/10

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

26

= CFS River Flow at Oakland

July 30, 2010

Simulate a Ra

Print Info for file

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	25.12 (23 to 25.4)	Check Again at 0900
0900	25.59 (23 to 25.9)	Check Again at 1100
1100	(23 to 25.4)	Release at 1230 for 2 Hours
1200	(23 to 25.3)	--
1400	(23 to 25.2)	--
1500		--

Tair °C	25.56	Air Temp, Elkins WV - Degree C
CCF	36	Cloud Cover Factor, Elkins WV
T7	19.67	River Temp Sang Run @700
T9	20.04	River Temp Sang Run @900
T11	21.68	River Temp Sang Run @1100
T12	--	River Temp Sang Run @1200
T14	--	River Temp Sang Run @1400
T15	--	River Temp Sang Run @1500
Q	26.00	River Flow at Oakland

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

Rmckane
7/30/10

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

25 = CFS River Flow at Oakland

July 31, 2010

Simulate a Ra

Print info for file

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	24.16 (23 to 26.4)	Check Again at 0900
0900	24.44 (23 to 25.9)	Check Again at 1100
1100	24.46 (23 to 25.4)	Check Again at 1200
1200	25.10 (23 to 25.3)	Check Again at 1400
1400	20.74 (23 to 25.2)	Check Again at 1500
1500	21.09	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	18.91	River Temp Sang Run @700	7/31/10	
T9	19.22	River Temp Sang Run @900		
T11	20.58	River Temp Sang Run @1100		
T12	22.01	River Temp Sang Run @1200		
T14	20.51	River Temp Sang Run @1400		
T15	20.75	River Temp Sang Run @1500		
Q	25.00	River Flow at Oakland		

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

32 = CFS River Flow at Oakland

August 1, 2010

Simulate a Ra

Print Info for file

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	21.13 (23 to 26.4)	Check Again at 0900
0900	21.75 (23 to 25.9)	Check Again at 1100
1100	23.09 (23 to 25.4)	Check Again at 1200
1200	24.03 (23 to 25.3)	Check Again at 1400
1400	25.02 (23 to 25.2)	Check Again at 1500
1500	24.53	Check Again Tomorrow at 0700

Tair °C	26.11	Air Temp, Elkins WV - Degree C
CCF	100	Cloud Cover Factor, Elkins WV
T7	20.19	River Temp Sang Run @700
T9	20.73	River Temp Sang Run @900
T11	21.13	River Temp Sang Run @1100
T12	21.74	River Temp Sang Run @1200
T14	22.58	River Temp Sang Run @1400
T15	23.64	River Temp Sang Run @1500
Q	32.00	River Flow at Oakland

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

R. McLane
8/01/10

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

22

= CFS River Flow at Oakland

August 2, 2010

Simulate a Ra

Print Info for file

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	25.85 (23 to 26.4)	Check Again at 0900
0900	(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	36	Cloud Cover Factor, Elkins WV	HAZE	Cloud Cover, Elkins WV
T7	19.22	River Temp Sang Run @700		
T9	19.63	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		

WHITE WATER RELEASE TODAY 1100-1400
 Qmct 8/02/10

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

19 = CFS River Flow at Oakland

August 3, 2010

Simulate a Ra

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	(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		

Print info for file

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	19.95	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	19.00	River Flow at Oakland		

[Handwritten Signature] 8-3-10

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

19 = CFS River Flow at Oakland

August 4, 2010

Simulate a Ra

Print Info for file

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	25.90 (23 to 26.4)	Check Again at 0900
0900	25.86 (23 to 25.9)	Check Again at 1100
1100	(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	RAIN	Cloud Cover, Elkins WV
T7	20.80	River Temp Sang Run @700		
T9	20.93	River Temp Sang Run @900		
T11	22.09	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		

[Handwritten Signature]
8-4-10

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

33 = CFS River Flow at Oakland

August 5, 2010

Simulate a Ra

Print Info for file

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	23.95 (23 to 26.4)	Check Again at 0900
0900	25.27 (23 to 25.9)	Check Again at 1100
1100	24.73 (23 to 25.4)	Check Again at 1200
1200	23.27 (23 to 25.3)	Check Again at 1400
1400	23.23 (23 to 25.2)	Check Again at 1500
1500	23.06	Check Again Tomorrow at 0700

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	19.93	River Temp Sang Run @700		
T9	20.37	River Temp Sang Run @900		
T11	21.04	River Temp Sang Run @1100		
T12	21.20	River Temp Sang Run @1200		
T14	21.74	River Temp Sang Run @1400		
T15	22.09	River Temp Sang Run @1500		
Q	33.00	River Flow at Oakland		

[Handwritten Signature]
8-5-10

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

56 = CFS River Flow at Oakland

August 6, 2010

Simulate a Ra

Print Info for file

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	24.96 (23 to 26.4)	Check Again at 0900
0900	25.39 (23 to 25.9)	Check Again at 1100
1100	(23 to 25.4)	Release at 1230 for 2 Hours
1200	(23 to 25.3)	--
1400	(23 to 25.2)	--
1500		--

Tair °C	27.22	Air Temp, Elkins WV - Degree C	81	Air Temp, Elkins WV - Degree F
CCF	36	Cloud Cover Factor, Elkins WV	PTSUNY	Cloud Cover, Elkins WV
T7	20.67	River Temp Sang Run @700		
T9	20.99	River Temp Sang Run @900		
T11	22.04	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		

[Handwritten Signature]
8-6-10

WWWR release satisfies temp. enhance run per permit. 9-2

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

39 = CFS River Flow at Oakland

August 7, 2010

Simulate a Ra

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	25.72 (23 to 26.4)	Check Again at 0900
0900	25.31 (23 to 25.9)	Check Again at 1100
1100	25.4 (23 to 25.4)	Release at 1230 for 2 Hours
1200	25.3 (23 to 25.3)	--
1400	25.2 (23 to 25.2)	--
1500		--

Print Info for file

Tair °C	27.78	Air Temp, Elkins WV - Degree C	82	Air Temp, Elkins WV - Degree F
CCF	36	Cloud Cover Factor, Elkins WV	HAZE	Cloud Cover, Elkins WV
T7	18.91	River Temp Sang Run @700		
T9	18.85	River Temp Sang Run @900		
T11	20.76	River Temp Sang Run @1100		
T12	--	River Temp Sang Run @1200		
T14	--	River Temp Sang Run @1400		
T15	--	River Temp Sang Run @1500		
Q	39.00	River Flow at Oakland		

JSD 8-7-10

WWR from 10:00 am - 1 pm satisfies the temp enhancement protocol per the permit.

JSD

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

Simulate a Ra

24

= CFS River Flow at Oakland

August 8, 2010

Print Info for file

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	26.15 (23 to 26.4)	Check Again at 0900
0900	25.75 (23 to 25.9)	Check Again at 1100
1100	25.4 (23 to 25.4)	Release at 1230 for 2 Hours <i>JP</i>
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	HAZE	Cloud Cover, Elkins WV
T7	18.79	River Temp Sang Run @700		
T9	18.48	River Temp Sang Run @900		
T11	20.59	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		

J. M. [Signature]
TMDCL

8/8/2010

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

18 = CFS River Flow at Oakland

August 9, 2010

Simulate a Ra

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	25.6 (23 to 26.4)	Check Again at 0900 Release at 1100 for 2 Hours <i>JP</i>
0900	(23 to 25.9)	
1100	(23 to 25.4)	
1200	(23 to 25.3)	
1400	(23 to 25.2)	
1500		

Print Info for file

Tair °C	29.44	Air Temp, Elkins WV - Degree C	85	Air Temp, Elkins WV - Degree F
CCF	36	Cloud Cover Factor, Elkins WV	HAZE	Cloud Cover, Elkins WV
T7	19.10	River Temp Sang Run @700		
T9	19.18	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		

J. W. ... TRUDOR 8/9/2010

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

Simulate a Ra

16 = CFS River Flow at Oakland

August 10, 2010

Print Info for file

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	(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	30.00	Air Temp, Elkins WV - Degree C	86	Air Temp, Elkins WV - Degree F
CCF	36	Cloud Cover Factor, Elkins WV	HAZE	Cloud Cover, Elkins WV
T7	20.37	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		

J-J
8-10-10

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

15 = CFS River Flow at Oakland

August 11, 2010

Simulate a Ra

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

Print Info for file

Tair °C	31.11	Air Temp, Elkins WV - Degree C	88	Air Temp, Elkins WV - Degree F
CCF	64	Cloud Cover Factor, Elkins WV	SHWRS	Cloud Cover, Elkins WV
T7	21.48	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		

J = [Signature] TANDON 8/11/2010

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

19 = CFS River Flow at Oakland

August 12, 2010

Simulate a Ra

Print Info for file

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	(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	30.00	Air Temp, Elkins WV - Degree C	86	Air Temp, Elkins WV - Degree F
CCF	64	Cloud Cover Factor, Elkins WV	SHWRS	Cloud Cover, Elkins WV
T7	22.07	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	19.00	River Flow at Oakland		

[Handwritten Signature]
8-12-10

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

17 = CFS River Flow at Oakland

August 13, 2010

Simulate a Ra

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	(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		

Print Info for file

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	21.46	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	17.00	River Flow at Oakland		

[Handwritten Signature]
8-17-10

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

18 = CFS River Flow at Oakland

August 14, 2010

Simulate a Ra

Print Info for file

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	(23 to 26.4)	Check Again at 0900
0900	(23 to 25.9)	
1100	(23 to 25.4)	Release at 1100 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	20.25	River Temp Sang Run @700		
T9	20.32	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]
8-14-10

- Note:
WWR satisfies Temp run for today.
J=J

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

15 = CFS River Flow at Oakland

August 15, 2010

Simulate a Ra

Print Info for file

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	25.57 (23 to 26.4)	Check Again at 0900
0900	25.43 (23 to 25.9)	Check Again at 1100
1100	25.77 (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	100	Cloud Cover Factor, Elkins WV	TSTRMS	Cloud Cover, Elkins WV
T7	21.41	River Temp Sang Run @700		
T9	21.28	River Temp Sang Run @900		
T11	22.26	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		

J. J. 8-15-10

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

15 = CFS River Flow at Oakland

August 16, 2010

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)	Check Again at 0900
0900	(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	36	Cloud Cover Factor, Elkins WV	PTCLDY	Cloud Cover, Elkins WV
T7	21.33	River Temp Sang Run @700		
T9	21.35	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]
8-16-10

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

Simulate a Ra

16

= CFS River Flow at Oakland

August 17, 2010

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	25.27 (23 to 25.9)	Check Again at 1100
1100	25.80 (23 to 25.4)	Release at 1230 for 2 Hours
1200	(23 to 25.3)	--
1400	(23 to 25.2)	--
1500		--

Tyler Nute - system operator
Strickland

Tair °C	28.89	Air Temp, Elkins WV - Degree C
CCF	64	Cloud Cover Factor, Elkins WV
T7	19.53	River Temp Sang Run @700
T9	19.39	River Temp Sang Run @900
T11	21.04	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

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

R McKenna
8/17/10

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

14

= CFS River Flow at Oakland

August 18, 2010

Simulate a Ra

Print Info for file

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	24.11 (23 to 26.4)	Check Again at 0900
0900	25.29 (23 to 25.9)	Check Again at 1100
1100	25.41 (23 to 25.4)	Check Again at 1200
1200	25.59 (23 to 25.3)	Check Again at 1400
1400	24.57 (23 to 25.2)	Check Again at 1500
1500	21.41	Check Again Tomorrow at 0700

Tair °C	24.44	Air Temp, Elkins WV - Degree C	76	Air Temp, Elkins WV - Degree F
CCF	64	Cloud Cover Factor, Elkins WV	SHWRS	Cloud Cover, Elkins WV
T7	19.31	River Temp Sang Run @700		
T9	19.48	River Temp Sang Run @900		
T11	20.06	River Temp Sang Run @1100		
T12	20.06	River Temp Sang Run @1200		
T14	20.30	River Temp Sang Run @1400		
T15	20.52	River Temp Sang Run @1500		
Q	14.00	River Flow at Oakland		

R. McKenna
8/18/10

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

13

= CFS River Flow at Oakland

August 19, 2010

Simulate a Ra

Print Info for file

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	26.16 (23 to 26.4)	Check Again at 0900
0900	25.72 (23 to 25.9)	Check Again at 1100
1100	25.31 (23 to 25.4)	Check Again at 1200
1200	(23 to 25.3)	Release ASAP - not later than 1230 for 1 hour
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	18.07	River Temp Sang Run @700		
T9	18.34	River Temp Sang Run @900		
T11	19.78	River Temp Sang Run @1100		
T12	21.41	River Temp Sang Run @1200		
T14	--	River Temp Sang Run @1400		
T15	--	River Temp Sang Run @1500		
Q	13.00	River Flow at Oakland		

R. McKinnon 8/19/10

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

13 = CFS River Flow at Oakland

August 20, 2010

Simulate a Ra

Print Info for file

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	(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	30.56	Air Temp, Elkins WV - Degree C	87	Air Temp, Elkins WV - Degree F
CCF	36	Cloud Cover Factor, Elkins WV	HAZE	Cloud Cover, Elkins WV
T7	18.99	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		

R. McKenna 8/20/10

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

13 = CFS River Flow at Oakland

August 21, 2010

Simulate a Ra

Print Info for file

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	(23 to 26.4)	Release at 1100 for 2 Hours <i>J-9</i> <i>8-21-10</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	36	Cloud Cover Factor, Elkins WV	HAZE	Cloud Cover, Elkins WV
T7	19.54	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		

Note: WWRP subscribes the temp enhancement run from today.

- J-9

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

Simulate a Ra

13 = CFS River Flow at Oakland

August 22, 2010

Print Info for file

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	25.71 (23 to 26.4)	Check Again at 0900
0900	24.37 (23 to 25.9)	Check Again at 1100
1100	24.69 (23 to 25.4)	Check Again at 1200
1200	24.55 (23 to 25.3)	Check Again at 1400
1400	23.05 (23 to 25.2)	Check Again at 1500
1500	25.01	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	MOCLDY	Cloud Cover, Elkins WV
T7	20.67	River Temp Sang Run @700		
T9	20.45	River Temp Sang Run @900		
T11	20.54	River Temp Sang Run @1100		
T12	20.85	River Temp Sang Run @1200		
T14	21.62	River Temp Sang Run @1400		
T15	22.07	River Temp Sang Run @1500		
Q	13.00	River Flow at Oakland		

John Shedd *John M*
8-22-10

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

16 = CFS River Flow at Oakland

August 23, 2010

Simulate a Ra

Print Info for file

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	26.84 (23 to 26.4)	Check Again at 0900
0900	25.70 (23 to 25.9)	Check Again at 1100
1100	25.09 (23 to 25.4)	Check Again at 1200
1200	25.70 (23 to 25.3)	Check Again at 1400
1400	25.08 (23 to 25.2)	Check Again at 1500
1500	24.74	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	MOCLDY	Cloud Cover, Elkins WV
T7	19.47	River Temp Sang Run @700		
T9	19.36	River Temp Sang Run @900		
T11	19.88	River Temp Sang Run @1100		
T12	20.23	River Temp Sang Run @1200		
T14	20.65	River Temp Sang Run @1400		
T15	20.95	River Temp Sang Run @1500		
Q	16.00	River Flow at Oakland		

[Handwritten Signature] 8-23-10

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

24 = CFS River Flow at Oakland

August 24, 2010

Simulate a Ra

Print Info for file

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	25.57 (23 to 26.4)	Check Again at 0900
0900	24.55 (23 to 25.9)	Check Again at 1100
1100	22.45 (23 to 25.4)	Check Again at 1200
1200	22.17 (23 to 25.3)	Check Again at 1400
1400	21.25 (23 to 25.2)	Check Again at 1500
1500	20.81	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	18.77	River Temp Sang Run @700		
T9	18.78	River Temp Sang Run @900		
T11	19.08	River Temp Sang Run @1100		
T12	19.40	River Temp Sang Run @1200		
T14	19.84	River Temp Sang Run @1400		
T15	19.86	River Temp Sang Run @1500		
Q	24.00	River Flow at Oakland		

J. R. M.
8-24-10

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

29 = CFS River Flow at Oakland

August 25, 2010

Simulate a Ra

Print info for file

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	26.32 (23 to 26.4)	Check Again at 0900
0900	25.01 (23 to 25.9)	Check Again at 1100
1100	23.70 (23 to 25.4)	Check Again at 1200
1200	25.75 (23 to 25.3)	Check Again at 1400
1400	23.04 (23 to 25.2)	Check Again at 1500
1500	22.55	Check Again Tomorrow at 0700

Step 1/11

Tair °C	24.44	Air Temp, Elkins WV - Degree C	76	Air Temp, Elkins WV - Degree F
CCF	64	Cloud Cover Factor, Elkins WV	SHWRS	Cloud Cover, Elkins WV
T7	18.44	River Temp Sang Run @700		
T9	18.69	River Temp Sang Run @900		
T11	19.80	River Temp Sang Run @1100		
T12	20.16	River Temp Sang Run @1200		
T14	21.41	River Temp Sang Run @1400		
T15	21.55	River Temp Sang Run @1500		
Q	29.00	River Flow at Oakland		

[Signature]
8-25-10

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

20 = CFS River Flow at Oakland

August 26, 2010

Simulate a Ra

Print info for file

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	23.85 (23 to 26.4)	Check Again at 0900
0900	25.14 (23 to 25.9)	Check Again at 1100
1100	27.36 (23 to 25.4)	Check Again at 1200
1200	26.23 (23 to 25.3)	Check Again at 1400
1400	24.74 (23 to 25.2)	Check Again at 1500
1500	24.26	Check Again Tomorrow at 0700

Shah

Tair °C	24.44	Air Temp, Elkins WV - Degree C	76	Air Temp, Elkins WV - Degree F
CCF	64	Cloud Cover Factor, Elkins WV	SHWRS	Cloud Cover, Elkins WV
T7	18.49	River Temp Sang Run @700		
T9	19.66	River Temp Sang Run @900		
T11	19.84	River Temp Sang Run @1100		
T12	20.60	River Temp Sang Run @1200		
T14	22.88	River Temp Sang Run @1400		
T15	23.11	River Temp Sang Run @1500		
Q	20.00	River Flow at Oakland		

R. McKenna 8/26/10

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

16 = CFS River Flow at Oakland

August 27, 2010

Simulate a Ra

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	24.58 (23 to 26.4)	Check Again at 0900
0900	24.19 (23 to 25.9)	Check Again at 1100
1100	24.58 (23 to 25.4)	Check Again at 1200
1200	24.58 (23 to 25.3)	Check Again at 1400
1400	24.21 (23 to 25.2)	Check Again at 1500
1500	24.10	Check Again Tomorrow at 0700

Print Info for file

Tair °C	26.11	Air Temp, Elkins WV - Degree C	79	Air Temp, Elkins WV - Degree F
CCF	36	Cloud Cover Factor, Elkins WV	HAZE	Cloud Cover, Elkins WV
T7	17.40	River Temp Sang Run @700		
T9	16.98	River Temp Sang Run @900		
T11	18.74	River Temp Sang Run @1100		
T12	20.20	River Temp Sang Run @1200		
T14	22.18	River Temp Sang Run @1400		
T15	23.11	River Temp Sang Run @1500		
Q	16.00	River Flow at Oakland		

Qmctema 8/27/10

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

Simulate a Ra

13 = CFS River Flow at Oakland

August 28, 2010

Print Info for file

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	27.89 (23 to 26.4)	Check Again at 0900
0900	24.85 (23 to 25.9)	Check Again at 1100
1100	24.85 (23 to 25.4)	Check Again at 1200
1200	25.09 (23 to 25.3)	Check Again at 1400
1400	23.59 (23 to 25.2)	Check Again at 1500
1500	23.76	Check Again Tomorrow at 0700

Tair °C	28.33	Air Temp, Elkins WV - Degree C	83	Air Temp, Elkins WV - Degree F
CCF	36	Cloud Cover Factor, Elkins WV	HAZE	Cloud Cover, Elkins WV
T7	16.63	River Temp Sang Run @700		
T9	16.82	River Temp Sang Run @900		
T11	18.28	River Temp Sang Run @1100		
T12	20.02	River Temp Sang Run @1200		
T14	21.51	River Temp Sang Run @1400		
T15	22.40	River Temp Sang Run @1500		
Q	13.00	River Flow at Oakland		

R. McKenna 8/28/10

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

12 = CFS River Flow at Oakland

August 29, 2010

Simulate a Ra

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	25.32 (23 to 26.4)	Check Again at 0900
0900	(23 to 25.9)	
1100	(23 to 25.4)	--
1200	(23 to 25.3)	--
1400	(23 to 25.2)	--
1500		--

Print Info for file

Tair °C	29.44	Air Temp, Elkins WV - Degree C	85	Air Temp, Elkins WV - Degree F
CCF	1	Cloud Cover Factor, Elkins WV	SUNNY	Cloud Cover, Elkins WV
T7	17.55	River Temp Sang Run @700		
T9	17.60	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	12.00	River Flow at Oakland		

R. McKenna 8/29/10

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

10 = CFS River Flow at Oakland

August 30, 2010

Simulate a Ra

Print Info for file

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	(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	18.75	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	10.00	River Flow at Oakland		

R. McKenna 8/30/2010

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

10 = CFS River Flow at Oakland

August 31, 2010

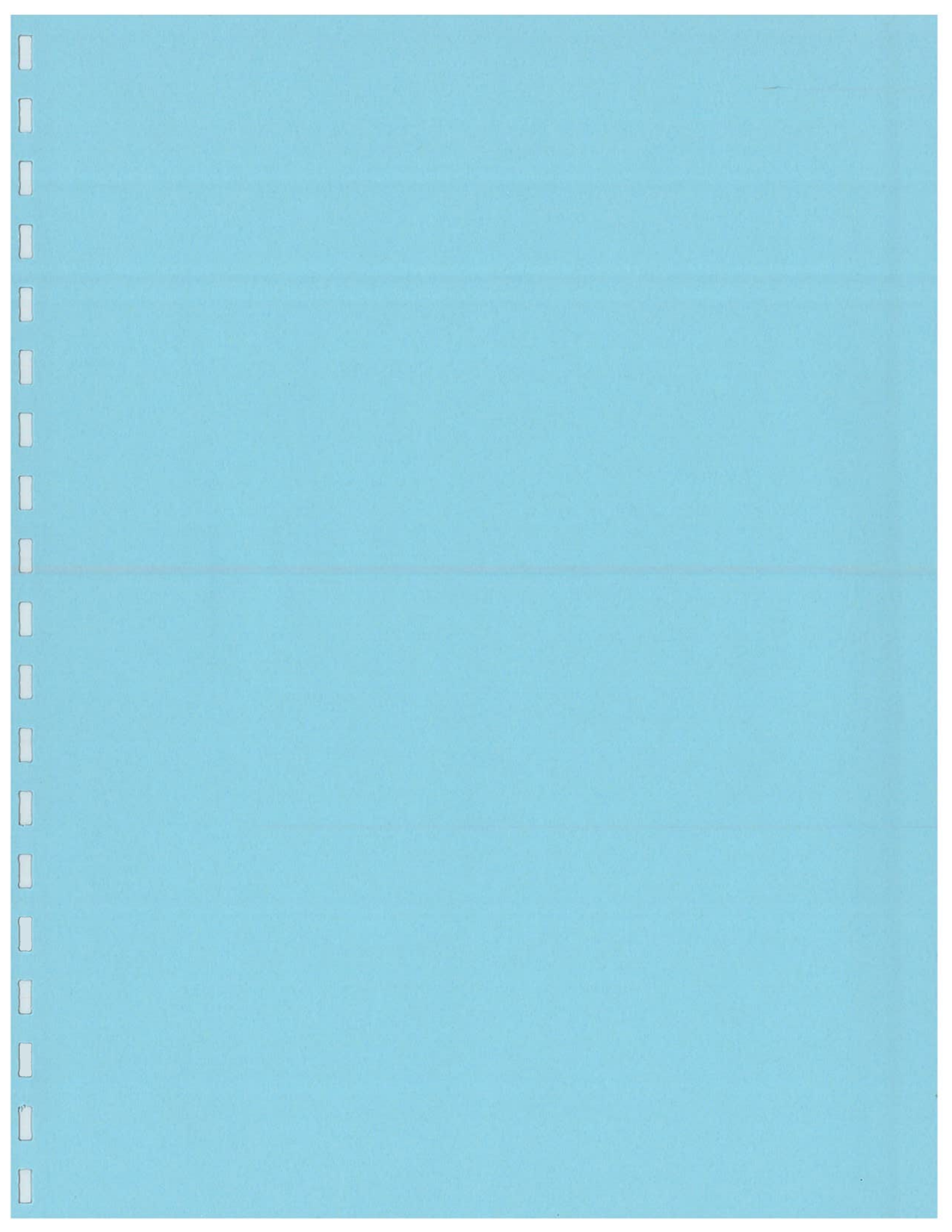
Simulate a Ra

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	(23 to 26.4)	Release at 1100 for 2 Hours <i>J-9</i> <i>8-31-10</i>
0900	(23 to 25.9)	
1100	(23 to 25.4)	
1200	(23 to 25.3)	
1400	(23 to 25.2)	
1500		

Print Info for file

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	18.40	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	10.00	River Flow at Oakland		

Note: LAST DAY FOR TEMP PROTOCOL



APPENDIX C

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

2010 Youghiogheny River Bypass Flow Provision

Month	Day	Flow at Oakland Gage	Bypass Flow Required	% Valve Open
July	8	25	2	22
July	9	25	2	22
July	10	25	2	22
July	12	22	6	27
July	13	25	2	22
July	25	25	2	22
July	29	25	2	22
July	31	25	2	22
August	2	22	6	27
August	3	19	2	22
August	4	19	2	22
August	8	24	3	23
August	9	18	3	23
August	10	16	6	27
August	11	15	8	30
August	12	19	2	22
August	13	18	3	23
August	14	18	3	23
August	15	15	8	30
August	16	15	8	30
August	17	16	6	27
August	18	14	9	32
August	19	13	11	35
August	20	13	11	35
August	21	13	11	35
August	22	13	11	35
August	23	16	6	27
August	24	24	3	23
August	26	20	9	32
August	27	16	6	27
August	28	13	11	35
August	29	12	12	36
August	30	10	15	40
August	31	10	15	40
September	1	9.3	17	42
September	2	8.7	18	44
September	3	8.7	18	44
September	4	6.5	21	48
September	5	5.1	23	51
September	6	4.7	25	54
September	7	7	20	47
September	8	7	20	47
September	9	6.5	21	48
September	10	3.5	26	55
September	11	3.2	26	55
September	12	8	18	44

2010 Youghiogheny River Bypass Flow Provision

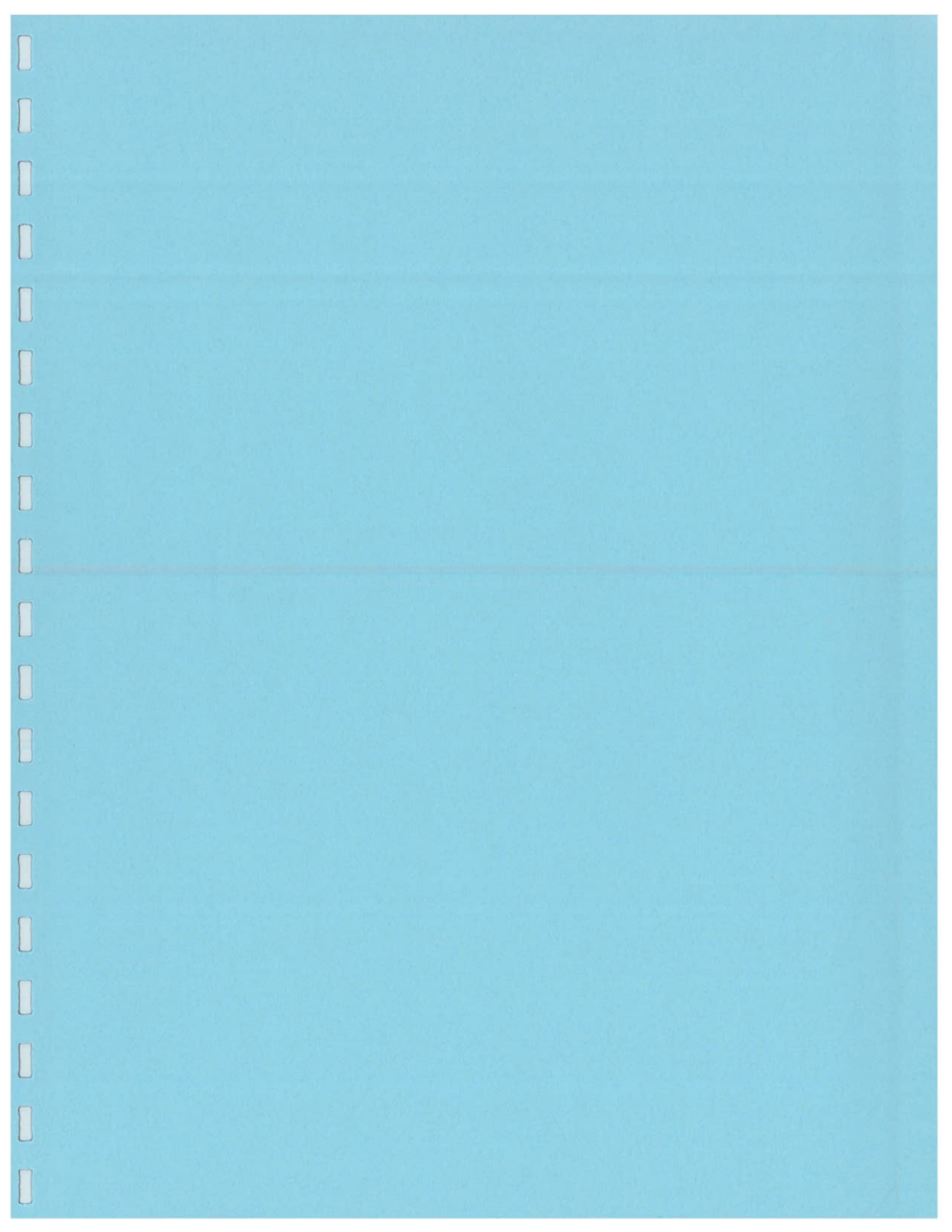
Month	Day	Flow at Oakland Gage	Bypass Flow Required	% Valve Open
September	13	6.5	21	48
September	14	6.5	21	48
September	15	5.5	23	51
September	16	5.5	23	51
September	17	18	3	23
September	19	16	6	27
September	20	12	12	36
September	21	8.7	18	44
September	22	8.7	18	44
September	23	8.7	18	44
September	24	7.5	20	47
September	25	7.5	20	47
September	26	6.5	21	48
September	27	6.5	21	48
September	28	12	12	36
September	29	15	8	30
October	12	24	3	23
October	13	22	6	27
October	14	24	3	23
October	15	24	3	23
October	16	25	2	22
October	17	22	6	27
October	18	19	2	22
October	19	18	3	23
October	20	19	2	22
October	21	18	3	23
October	22	18	3	23
October	23	17	5	26
October	24	17	5	26
October	25	17	5	26
October	26	18	3	23
October	31	19	2	22
November	1	18	3	23
November	2	18	3	23

**USGS PROVISIONAL WATER DISCHARGE DATA FOR THE OAKLAND GAGE (GAGE NO. 03075500)
FROM JANUARY 1, 2010 THROUGH DECEMBER 31, 2010 (mean cfs)**

Month	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Day of Month												
1	128	368	183	409	142	161	49	29	9.9	187	18	1,510
2	123	289	182	355	150	128	42	23	9.3	62	32	882
3	118	235	180	295	799	104	37	20	8.1	38	37	490
4	115	210	176	251	524	96	35	21	6.8	41	56	347
5	112	178	175	229	353	289	33	45	5.9	32	118	274
6	110	155	180	206	269	1,380	31	49	6.0	37	83	227
7	107	152	186	173	214	1,210	28	34	6.6	153	61	196
8	101	150	204	162	233	526	27	22	6.2	79	49	189
9	98	144	255	202	184	444	25	18	5.3	47	42	178
10	95	143	407	160	152	881	26	17	3.9	34	36	162
11	94	139	897	134	204	483	26	17	4.0	28	31	157
12	92	133	2,880	120	303	345	24	19	7.7	24	30	196
13	89	130	5,880	111	298	292	72	19	7.3	21	28	312
14	86	125	5,120	106	254	231	167	17	7.2	22	26	188
15	86	121	2,590	96	407	203	78	16	7.5	24	27	229
16	86	119	1,880	94	277	198	46	16	10	24	62	219
17	388	116	1,650	169	653	171	40	16	26	21	245	212
18	1,150	115	1,440	131	949	136	36	14	25	19	150	197
19	826	119	1,320	113	669	111	147	14	16	18	110	147
20	725	118	1,250	103	496	96	100	14	12	19	94	139
21	530	124	1,150	98	366	83	66	13	10	18	79	135
22	509	136	1,280	93	372	76	48	15	10	17	69	132
23	474	182	1,080	86	544	73	35	21	9.7	17	64	129
24	623	209	741	101	460	171	29	31	8.7	17	62	127
25	4,600	193	588	153	339	218	45	27	8.6	18	90	127
26	3,290	174	918	179	268	105	85	20	8.4	18	277	127
27	1,180	193	694	271	219	85	43	16	10	32	259	125
28	728	189	702	212	187	77	30	14	15	40	181	124
29	524	XXXX	986	182	374	78	26	12	19	27	143	116
30	473	XXXX	694	160	207	63	27	11	191	21	365	98
31	404	XXXX	524	XXXX	162	XXXX	24	11	XXXX	18	XXXX	102

The above data, obtained from the automated U.S. Geological Survey database, have not received Director's approval and as such are provisional and subject to revision. 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 DISSOLVED OXYGEN LOG

(Instrument Calibrated to 2000 ft. MSL)

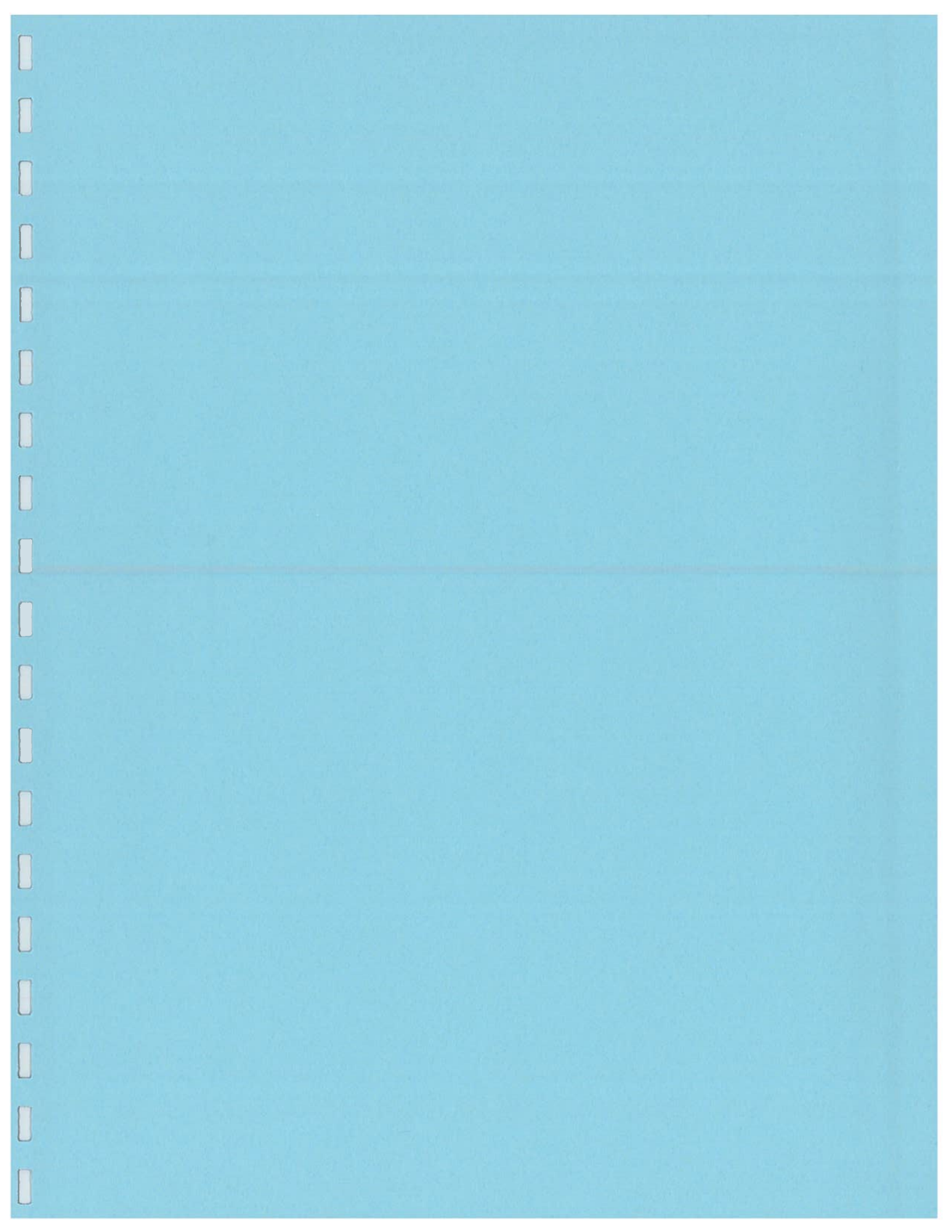
Date	INSTRUMENT CALIBRATION CAL. READINGS			DO MEASUREMENTS DOWNSTREAM OF WEIR			NO. UNITS GENERATING	TIMES OF GENERATION	SLUICE GATE POSITION	NON-OPERATING TAILRACE ELEVATION	OPERATING TAILRACE ELEV.
	TIME	TEMP °C	DO (mg/l)	TIME	TEMP °C	DO (mg/l)					
5/29/2010	9:17	22.6	8.01	9:26	12.0	8.51	0	xxxxxxxxxx	4 - OPEN	2022.6	xxxxxxxxxx
5/29/2010	10:21	20.5	7.92	10:30	13.1	8.32	1	10:00 - 13:00	4 - OPEN	2022.6	2024.6
6/2/2010	14:30	24.7	7.43	14:36	14.4	9.08	2	13:00 - 18:00	4 - OPEN	2022.3	2028.0
6/3/2010	12:30	23.0	7.63	12:36	12.5	8.80	0	xxxxxxxxxx	4 - OPEN	2022.1	xxxxxxxxxx
6/3/2010	13:20	20.0	8.05	13:30	14.4	8.95	2	13:00 - 18:00	4 - OPEN	2022.1	2028.0
6/4/2010	10:45	27.2	6.70	10:50	20.8	8.04	0	xxxxxxxxxx	4 - OPEN	2022.0	xxxxxxxxxx
6/4/2010	11:25	20.8	8.04	11:30	14.2	8.88	2	11:00 - 15:00	4 - OPEN	2022.0	2028.0
6/10/2010	12:10	24.5	7.69	12:21	14.8	8.96	2	11:30 - 12:15	4 - OPEN	2023.4	2028.1
6/11/2010	10:37	24.9	7.61	10:45	12.9	8.12	0	xxxxxxxxxx	4 - OPEN	2023.0	xxxxxxxxxx
6/11/2010	12:51	25.2	7.56	13:00	13.8	8.34	1	11:00 - 17:00	4 - OPEN	2023.0	2024.8
6/14/2010	10:30	26.6	7.30	10:38	12.8	7.63	0	xxxxxxxxxx	4 - OPEN	2022.5	xxxxxxxxxx
6/14/2010	11:12	26.7	7.42	11:23	14.6	8.85	2	11:00 - 14:00	4 - OPEN	2022.5	2028.0
6/14/2010	14:35	27.3	7.27	14:42	15.3	7.98	0	xxxxxxxxxx	4 - OPEN	2022.5	xxxxxxxxxx
6/15/2010	12:40	24.3	7.72	12:48	15.2	8.55	2	11:30 - 14:00	4 - OPEN	2022.5	2027.4
6/17/2010	11:25	25.3	7.70	11:30	15.4	7.90	0	xxxxxxxxxx	4 - OPEN	2022.4	xxxxxxxxxx
6/17/2010	12:40	23.8	7.81	12:45	14.6	8.38	2	12:00 - 14:00	4 - OPEN	2022.4	2028.0
6/17/2010	14:30	24.3	7.57	14:39	15.1	7.34	0	xxxxxxxxxx	4 - OPEN	2022.4	xxxxxxxxxx
6/18/2010	10:40	28.6	7.11	10:47	13.1	8.38	0	xxxxxxxxxx	4 - OPEN	2022.2	xxxxxxxxxx
6/18/2010	13:30	25.7	7.92	12:40	15.0	9.26	2	11:00 - 14:00	4 - OPEN	2022.2	2028.0
6/18/2010	14:18	25.0	7.61	14:30	15.4	7.61	0	xxxxxxxxxx	4 - OPEN	2022.2	xxxxxxxxxx
6/19/2010	10:33	26.9	7.38	10:41	13.4	8.46	0	xxxxxxxxxx	4 - OPEN	2022.1	xxxxxxxxxx
6/19/2010	11:21	26.7	7.43	11:33	15.4	9.24	2	11:00 - 15:00	4 - OPEN	2022.1	2028.0
6/21/2010	10:34	28.5	7.26	10:40	13.8	8.52	0	xxxxxxxxxx	4 - OPEN	2022.0	xxxxxxxxxx
6/21/2010	11:27	28.1	7.19	11:34	15.1	8.81	2	11:00 - 15:00	4 - OPEN	2022.0	2028.0

DEEP CREEK DISSOLVED OXYGEN 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)					
8/12/2010	10:30	26.5	7.36	10:35	14.3	5.43	0	XXXXXXXXXX	2 - Closed 2 - Open 6"	2021.6	XXXXXXXXXX
8/12/2010	11:30	26.0	7.45	11:37	19.1	6.49	2	11:00 - 13:00	2 - Closed 2 - Open 6"	2021.6	2028.5
8/12/2010	13:30	33.1	6.08	13:35	19.6	5.88	0	XXXXXXXXXX	2 - Closed 2 - Open 6"	2021.6	XXXXXXXXXX
8/13/2010	10:30	26.6	7.64	10:40	14.5	5.50	0	XXXXXXXXXX	2 - Closed 2 - Open 6"	2021.6	XXXXXXXXXX
8/13/2010	11:40	26.0	7.45	11:45	20.2	6.98	2	11:00 - 14:00	2 - Closed 2 - Open 6"	2021.6	2028.5
8/13/2010	14:30	24.0	7.21	14:35	20.0	5.90	0	XXXXXXXXXX	2 - Closed 2 - Open 6"	2021.6	XXXXXXXXXX
8/20/2010	12:16	24.8	7.61	12:24	18.6	6.04	2	11:00 - 13:00	2 - Closed 2 - Open 6"	2021.7	2028.5
8/20/2010	14:26	25.9	7.60	12:36	19.2	5.71	0	XXXXXXXXXX	2 - Closed 2 - Open 6"	2021.7	XXXXXXXXXX
8/21/2010	10:30	23.5	7.91	10:37	14.5	5.28	0	XXXXXXXXXX	2 - Closed 2 - Open 6"	2021.7	XXXXXXXXXX
8/21/2010	13:00	31.2	6.22	13:05	18.7	6.05	2	11:00 - 13:00	2 - Closed 2 - Open 6"	2021.7	2028.5
8/21/2010	14:30	24.6	7.08	14:35	19.4	5.68	0	XXXXXXXXXX	2 - Closed 2 - Open 6"	2021.7	XXXXXXXXXX
8/28/2010	10:30	19.5	9.18	10:35	14.2	5.66	0	XXXXXXXXXX	2 - Closed 2 - Open 6"	2021.6	XXXXXXXXXX
8/28/2010	12:30	36.8	6.00	12:35	19.2	6.74	2	11:00 - 14:15	2 - Closed 2 - Open 6"	2021.6	2028.5
8/28/2010	14:40	25.0	7.00	14:45	19.3	6.01	0	XXXXXXXXXX	2 - Closed 2 - Open 6"	2021.6	XXXXXXXXXX
8/30/2010	10:30	22.1	8.01	10:37	14.5	5.74	0	XXXXXXXXXX	2 - Closed 2 - Open 6"	2021.7	XXXXXXXXXX
8/30/2010	11:53	23.2	7.90	12:00	19.0	6.40	2	11:00 - 13:00	2 - Closed 2 - Open 6"	2021.7	2028.5
8/30/2010	13:36	24.1	7.78	13:42	19.5	5.99	0	XXXXXXXXXX	2 - Closed 2 - Open 6"	2021.7	XXXXXXXXXX
9/4/2010	9:32	20.4	7.92	9:40	13.9	5.67	0	XXXXXXXXXX	2 - Closed 2 - Open 6"	2021.7	XXXXXXXXXX
9/4/2010	10:43	25.0	7.51	10:52	19.3	6.42	2	11:00 - 13:00	2 - Closed 2 - Open 6"	2021.7	2028.5
9/11/2010	9:34	17.1	8.80	9:41	15.0	6.53	0	XXXXXXXXXX	2 - Closed 2 - Open 6"	2021.8	XXXXXXXXXX
9/11/2010	10:52	15.6	8.83	11:01	18.9	6.61	2	11:00 - 13:00	2 - Closed 2 - Open 6"	2021.8	2028.5
9/11/2010	14:00	19.5	8.35	14:08	19.6	7.04	0	XXXXXXXXXX	2 - Closed 2 - Open 6"	2021.8	XXXXXXXXXX
9/17/2010	9:36	20.5	8.20	9:42	15.6	5.08	0	XXXXXXXXXX	2 - Closed 2 - Open 6"	2021.6	XXXXXXXXXX
9/17/2010	10:32	19.3	8.39	10:35	18.4	6.99	2	11:00 - 13:00	2 - Closed 2 - Open 6"	2021.6	2028.5





APPENDIX E

WATER APPROPRIATION AND USE PERMIT - GA1992S009(07)



MARYLAND DEPARTMENT OF THE ENVIRONMENT
1800 Washington Boulevard • Baltimore MD 21230
410-537-3000 • 1-800-633-6101

Martin O'Malley
Governor

Shari T. Wilson
Secretary

Anthony G. Brown
Lieutenant Governor

Robert M. Summers, Ph.D.
Deputy Secretary

April 12, 2007

CERTIFIED MAIL - 7002 2410 0005 5561
Return Receipt Requested

BROOKFIELD POWER PINEY & DEEP CREEK LLC
C/O DAVID W. CULLIGAN, PE
225 GREENFIELD PARKWAY SUITE 201
LIVERPOOL, PA 13088

RE: State Water Appropriation
Permit No. GA1992S009(07)
Revision 07

Dear Mr. Culligan:

The previously mailed permit signed on March 30, 2007 was noted to have several typographical errors. The enclosed permit replaces the previous version, with the same effective date and sequence number. As before, the Brookfield Power is responsible for complying with all permit conditions.

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 W. GRACE
Water Supply Program

cc: GARRETT COUNTY HEALTH DEPARTMENT
INTERESTED PARTY LIST

STATE OF MARYLAND
DEPARTMENT OF THE ENVIRONMENT
WATER MANAGEMENT ADMINISTRATION

WATER APPROPRIATION AND USE PERMIT

PERMIT NUMBER: GA1992S009(07)

EFFECTIVE DATE: APRIL 1, 2007
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 (1996 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 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	2460.0	2459.0
AUGUST	2459.0	2458.0
SEPTEMBER	2458.5	2457.0
OCTOBER	2457.9	2456.0
NOVEMBER	2457.9	2455.0
DECEMBER	2457.9	2455.0

IN THE EVENT OF UNUSUAL OR EMERGENCY CONDITIONS, THE NORMAL MONTHLY OPERATING RULES MAY BE MODIFIED OR SUSPENDED UNTIL SUCH TIME AS UNUSUAL OR EMERGENCY CONDITIONS NO LONGER EXIST. UNUSUAL OR EMERGENCY CONDITIONS ARE DEFINED AS:

14. CONT'D

- (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;
- (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 BELOW THE UPPER RULE BAND AND/OR AVOID SPILLING OVER THE TOP OF THE DAM.

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 DEPARTMENT 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

16. CONT'D
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 DEPARTMENT ALL OCCURRENCES OF WATER TEMPERATURES EQUALING 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 DEPARTMENT, 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. A REPORT OF FLOW ESTIMATES AND THE OCCURRENCE OF BYPASS RELEASES SHALL BE SUBMITTED TO THE DEPARTMENT 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 INTO THE TAILRACE OF APPROXIMATELY 9 CFS DURING THE MONTHS OF JUNE, JULY AND AUGUST, EVEN WHEN THERE IS NO MINIMUM BYPASS FLOW AS REQUIRED BY THIS CONDITION.
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 DEPARTMENT 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.

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)

II) SPECIAL WWR. SPECIAL WWR MUST BE REQUESTED IN WRITING TO MDE 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. THE EXTENT PRACTICABLE AND AT THE DISCRETION OF THE PERMITTEE, ANY WWR MAY BE SYNCHRONIZED WITH ANY TER THAT MAY BE REQUIRED DURING THE MONTHS OF JUNE, JULY, AND AUGUST. SYNCHRONIZATION MEANS COMMENCING A WWR UP TO ONE (1) HOUR EARLIER TO MORE ACCURATELY COINCIDE WITH A TER. IN THE EVENT THE PERMITTEE EXPECTS TO SYNCHRONIZE A WWR WITH A TER ON A GIVEN DAY, IT SHALL PLACE NOTICE OF THE SAME ON A RECORDED MESSAGE, ACCESSIBLE TO THE PUBLIC BY TELEPHONE AS SOON AS THE DECISION TO SYNCHRONIZE IS MADE.

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.

- 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 AND EXCEPT WHEN A WWR IS SYNCHRONIZED WITH A TER.

(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.

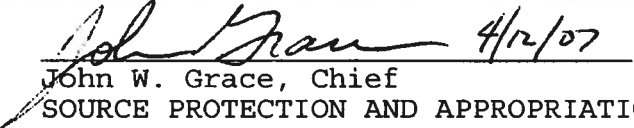
- + WHEN NATURAL FLOW AS MEASURED AT FRIENDSVILLE IS GREATER THAN 600 CFS BUT LESS THAN 1300 CFS, POWERHOUSE DISCHARGE MAY VARY BETWEEN 220 CFS AND MAXIMUM DISCHARGE OF ONE TURBINE DURING THE THIRD HOUR OF ANY WWR SO LONG AS POWER HOUSE DISCHARGE DURING THE FIRST TWO HOURS OF THE WWR IS HELD CONSTANT AT MAXIMUM DISCHARGE OF ONE TURBINE.

(2) ALL HOUR REGULATION APPROACH.

- + WHEN NATURAL FLOW AS MEASURED AT FRIENDSVILLE IS LESS THAN OR EQUAL TO 200 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 200 AND 300 CFS, POWERHOUSE DISCHARGE MAY VARY BETWEEN 440 CFS AND MAXIMUM DISCHARGE OF TWO TURBINES DURING ANY PART OF ANY THREE HOUR 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:
BRASCAN POWER PINEY AND DEEP CREEK LLC ON APRIL 27, 2005
(GA1992S009(06))

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 2010

Month 4

Day 17

Hour 9:45

Water Temperature ° F 66

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 None

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 2010

Month 5

Day 16

Hour 10:30

Water Temperature ° F 68

How many days was the sampler exposed to the water prior to collecting this data? 37

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

Other oraganisms observed on the sampler? NO

Comments None

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 2010

Month 6

Day 17

Hour 13:30

Water Temperature ° F 71

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

Are zebra mussels present at the site? (X 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 None

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 2010

Month 7

Day 4

Hour 10:30

Water Temperature ° F. 75

How many days was the sampler exposed to the water prior to collecting this data? 49

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 None

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 2010

Month 8

Day 15

Hour 12:00

Water Temperature ° F 75

How many days was the sampler exposed to the water prior to collecting this data? 35

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 None

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 2010

Month 9

Day 16

Hour 9:30

Water Temperature ° F 72

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 None

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 2010

Month 10

Day 17

Hour 11:00

Water Temperature ° F 58

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 None

