

292006-0001 15565
Deep Creek Hydroelectric Station
Md. Dept. of the Environment,
2005 Annual Report

DEEP CREEK HYDROELECTRIC STATION
MARYLAND DEPARTMENT of the ENVIRONMENT
WATER APPROPRIATION
PERMIT NO. GA92S009 (06)
GARRETT COUNTY, MARYLAND

2005 ANNUAL REPORT

January 2006

Prepared By:

DEVINE TARBELL & ASSOCIATES, INC

for

BRASCAN POWER PINEY & DEEP CREEK, LLC

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**DEEP CREEK HYDROELECTRIC STATION
MDE WATER APPROPRIATION PERMIT NO. GA92S009 (06)
ANNUAL REPORT 2005**

1.0 SUMMARY

Brascan Power Piney & Deep Creek, LLC (Permittee) holds Water Appropriation Permit GA92S009(06) issued by the Maryland Department of the Environment (MDE). Permit GA92S009(06) provides for the continued operation of the Deep Creek Hydroelectric Station.

Permit Condition 23 requires the Permittee to submit an annual report to the MDE, including data and information as specified in Permit Conditions 15 – 19 and 21.

1.1 LAKE LEVEL MONITORING

End of Month Levels

Appendix A contains daily water level data for 2005 in tabular and graphical format. Reservoir levels exceeded the desired end of month Upper Rule Band (URB) by 0.5 feet in March. Reservoir levels during the remainder of the year did not exceed the desired end of month URB. Reservoir levels were below the URB for 2005 as follows:

TABLE 1 – Lake Level in Feet Below URB

MONTH OF YEAR	FEET BELOW URB
January	1.4
February	0.5
April	0.7
May	0.2
June	0.3
July	0.3
August	0.3
September	0.9
October	0.6
November	0.8
December	1.5

Water levels were maintained above the Lower Rule Band (LRB) for the entire year.

Daily Levels

The following describes each daily exceedance of the URB. Appendix A provides a summary of the daily exceedances of the URB. As stated above, the impoundment was maintained above the LRB for the entire year.

The reservoir level was maintained within the rule bands between 2456.6 ft. and 2457.8 ft. from January 1st- 8th. During this period, the Deep Creek area received 5.56" of rain. This rainfall coincided with an outage of Unit #1 from January 3rd-12th. These events forced the reservoir level slightly above the URB to 2458.0 ft. from January 8th-11th, 2458.2 ft. on January 12th, 2458.4 ft. on January 13th, 2458.3 ft. on January 14th, and 2458.1 ft. on January 15th.

The reservoir remained at or below the URB from January 16th through March 30th.

From March 28th through April 3rd, the Deep Creek area received at least 3.14" of precipitation which forced the reservoir slightly above the URB by 0.1-0.5 ft. from March 31st until April 14th. The reservoir elevated above the URB to 2460.0 ft. on March 31st through April 2nd, 2460.2 ft. on April 3rd, 2460.4 ft. on April 4th, and 2460.5 ft. on April 5th and 6th, then receded to 2460.4 ft. on April 7th and 8th, only to increase again to 2460.5 ft. from April 9th-11th. The reservoir began to consistently recede to 2460.4 ft. on April 12th, 2460.3 ft. on April 13th, and 2460.1 ft. on April 14th.

The reservoir remained at or below the URB from April 15th through June 9th.

From June 3rd-14th, the Deep Creek area received 1.96" of precipitation, raising the reservoir slightly above the URB by 0.1 ft. to 2461.1 ft. from June 10th-14th.

The reservoir remained at or below the URB from June 15th through the end of the calendar year.

Rainfall totals for January, March, April, and June were 8.13", 5.21", 4.22", 3.23" respectively. The rainfall total for these months in 2005 was 23.80 inches.

1.2 TEMPERATURE MONITORING

The Permittee 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). The Plan was designed to maintain river water temperatures below 25° C in the Youghiogheny River. By letters dated July 1st, August 22nd, and September 19th, 2005, the Permittee provided the MDE with temperature excursion dates at the Sang Run temperature monitoring station and an explanation for those excursions. As discussed in the August 22nd, 2005 letter, the Permittee experienced problems with the spreadsheet inherited from the Station's previous owner that was used to implement and track the temperature monitoring and enhancement protocol, as well as some human error.

The Permittee released water in accordance with the Water Temperature Enhancement Plan on 25 days in 2005. The temperature enhancement protocol predicted water temperatures in excess of 25° C on June 11th, 25th-30th, July 1st-3rd, and August 1st-7th, 10th-14th, 17th-18th, 20th, 24th-25th. Appendix B presents the Permittee's temperature excursion dates, the duration of releases, the cause for the excursion and the maximum temperature for each date during the period of June 1 through August 31st, 2005.

Water temperature at Sang Run climbed above 25° C on June 25th, 26th, 28th-30th, July 5th, 6th, 12th, 26th, 27th, 30th, 31st, and August 2nd-4th, 7th, 9th-11th, 14th, 17th, 20th, 21st, and 24th according to the Sang Run temperature data supplied by Versar. The temperature enhancement protocol was not required on June 1st-5th, 7th-10th, 12th, 17th, July 6th, 8th-11th, 13th-28th, or August 21st, 22nd, and 28th as flows at the Oakland gage were greater than 100 cfs, as outlined in the temperature enhancement plan.

Due to a data downloading malfunction there are no SMAX temperature readings from June 1st-13th for Sang Run. Additionally, no PMAX temperature data is available from June 28th through July 11th, due to a lightning strike which rendered the temperature gage inoperable. Appendix B presents 1) summary tables of the temperature exceedance dates at Sang Run, 2) the temperature enhancement release dates, 3) the maximum daily temperature comparison table (Brascan and VERSAR data), and 4) the daily Deep Creek Station, Water Temperature Enhancement Plan data sheets. Note, both SMAX and PMAX are defined in Appendix B of this report.

1.3 MINIMUM FLOW RELEASE MONITORING

The Permittee 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 the Permittee to maintain a minimum flow of 40 cfs in the Youghiogheny River immediately downstream of the tailrace. Starting June 1st, and continuing through November 30th, the Permittee monitored the river flows at the Oakland gage. As required by the protocol, when flows at the Oakland gage fall below 26 cfs, the Permittee may be required to open a bypass valve to release enough water to maintain 40 cfs in the river immediately below the tailrace.

The 2005 water year was an uncharacteristically dry year for the Deep Creek region and therefore, the Permittee provided supplemental flow to the Youghiogheny River below the project tailrace on 39 days during the period from June 1st through November 30th, 2005. Some of these releases were also provided for whitewater boating activities or other operational or permit requirements.

The table in Appendix C summarizes flow bypass data for June through November 2005, when flows in the Youghiogheny River were less than 26 cfs. Flow data were obtained from the 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 were determined from Table 3 of the protocol (See Appendix C) based on station operating status.

1.4 DISSOLVED OXYGEN MONITORING

The Permittee operated the dissolved oxygen enhancement weir during 2005 in accordance with the “Dissolved Oxygen (DO) Enhancement Operations and Monitoring Protocol” approved by the MDE on January 6th, 1995. Data obtained from DO monitoring in 2005 are included in Appendix D.

The DO levels in the tailrace did not fall below 6.0 mg/l during 2005.

1.5 RELEASES UNSUITABLE FOR WHITEWATER RECREATION

Permit Condition 19 outlines several operating rules designed to enhance whitewater boating opportunities in the Youghiogheny River. One operating rule restricts generation during certain times of the day unless flows suitable for whitewater boating also occur. The specific criteria for this operating rule are:

- Applies only from April 15th through October 15th,
- Applies only when the Lake is between the upper and lower rule bands,
- May be suspended during emergency conditions described in Condition 14, and
- Prohibits releases between 1600 hours and 0800 hours of the following morning
Unless one of the following conditions is met:
 1. A release providing three consecutive hours suitable for whitewater boating occurs during the 0800 to 1600 hour period immediately preceding the release.

Or

2. A release providing three consecutive hours suitable for whitewater boating occurs during the 0800 to 1600 hour period immediately following the release.

Condition 19 requires the Permittee to document “times and dates when generation releases not suitable for whitewater recreation occurred.” Using the criteria above, generation releases during 2005 not suitable for whitewater recreation occurred on April 21st.

On April 21st releases occurred for 2 hours from 0700-0900, and for 8 hours from 1400-2200 hours with only a 2-hour release occurring during the preceding 0800-1600 time period and a 7-hour release in the 0800-1600 time period following this release.

On April 21st there were no emergency situations and the impoundment level was within the rule band.

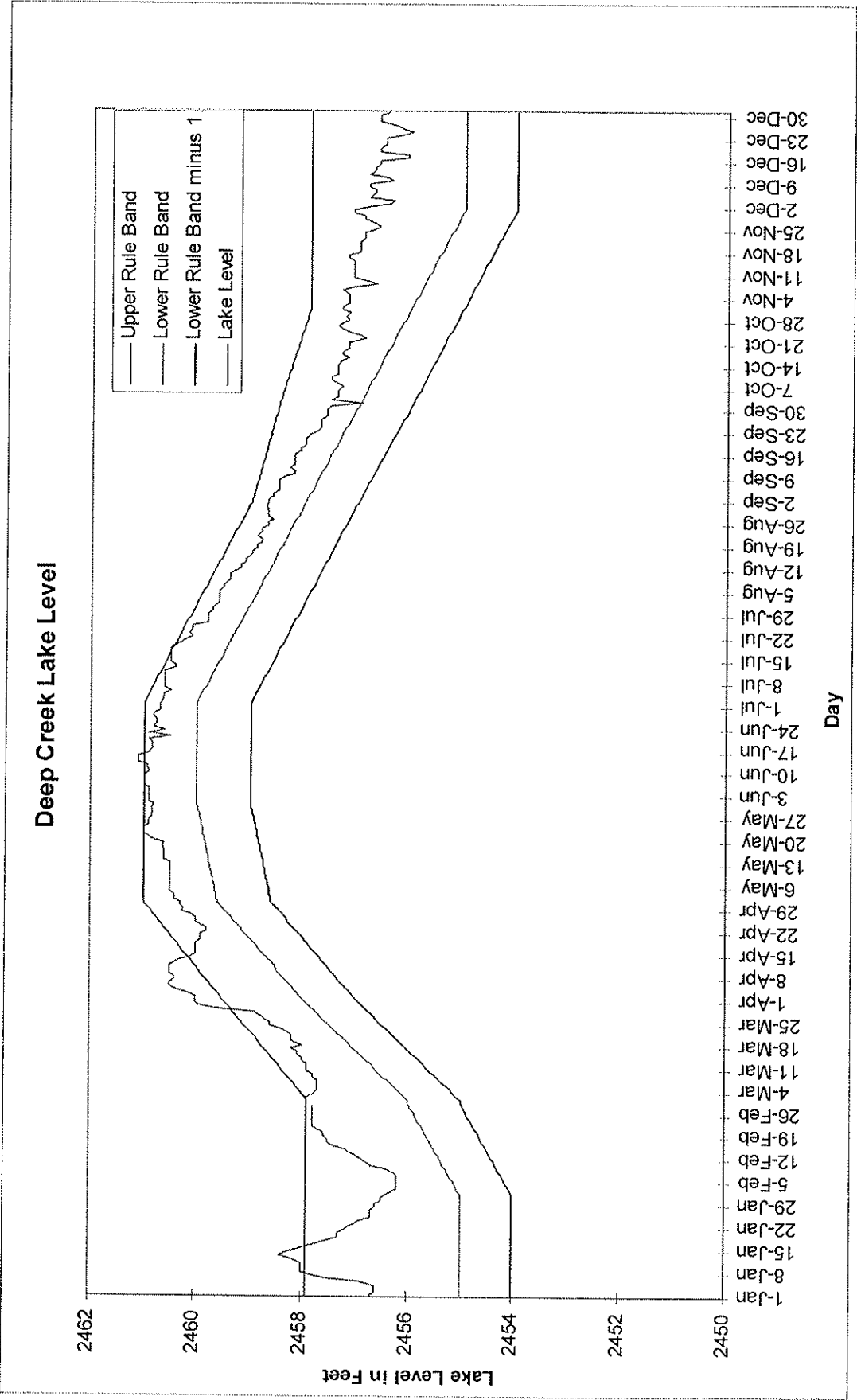
1.6 ZEBRA MUSSEL MONITORING

Artificial substrates placed at the station intake area during 2005 showed no signs of zebra mussel infestation. Appendix E contains the 2005 Zebra Mussel Monitoring Report data sheet.

APPENDIX A

LAKE LEVEL DATA AND PLOT

DEEP CREEK LAKE LEVEL GRAPH



DEEP CREEK LAKE LEVEL GRAPH - 2005

DEEP CREEK DAILY LAKE LEVEL TABLE

Deep Creek Lake Level 2005

January	Lake Level	Rain Fall	February	Lake Level	Rain Fall	March	Lake Level	Rain Fall
1	2456.70	0.00	1	2456.40	0.00	1	2457.90	0.55
2	2456.60	0.04	2	2456.30	0.00	2	2457.90	0.05
3	2456.60	0.80	3	2456.20	0.10	3	2457.80	0.00
4	2456.60	0.50	4	2456.20	0.10	4	2457.70	0.00
5	2456.90	2.75	5	2456.20	0.00	5	2457.70	0.00
6	2457.50	0.65	6	2456.20	0.00	6	2457.70	0.00
7	2457.80	0.10	7	2456.20	0.00	7	2457.70	0.40
8	2458.00	0.72	8	2456.30	0.10	8	2457.80	0.09
9	2458.00	0.00	9	2456.40	0.65	9	2457.80	0.00
10	2458.00	0.00	10	2456.70	0.20	10	2457.90	0.00
11	2458.00	1.30	11	2456.80	0.00	11	2457.90	0.10
12	2458.20	0.00	12	2456.90	0.00	12	2457.90	0.30
13	2458.40	0.05	13	2457.00	0.00	13	2458.00	0.00
14	2458.30	0.52	14	2457.10	1.00	14	2458.00	0.00
15	2458.10	0.00	15	2457.20	0.00	15	2458.10	0.00
16	2457.90	0.00	16	2457.40	0.25	16	2458.10	0.00
17	2457.70	0.10	17	2457.50	0.05	17	2458.20	0.00
18	2457.50	0.00	18	2457.50	0.10	18	2458.00	0.00
19	2457.30	0.18	19	2457.60	0.10	19	2458.20	0.00
20	2457.30	0.00	20	2457.60	0.15	20	2458.20	0.00
21	2457.20	0.00	21	2457.70	0.00	21	2458.20	0.08
22	2457.10	0.20	22	2457.80	0.00	22	2458.30	0.05
23	2457.00	0.15	23	2457.80	0.00	23	2458.40	1.00
24	2456.90	0.00	24	2457.80	0.20	24	2458.60	0.15
25	2456.70	0.00	25	2457.80	0.08	25	2458.60	0.05
26	2456.70	0.00	26	2457.80	0.00	26	2458.70	0.15
27	2456.70	0.05	27	2457.80	0.00	27	2458.80	0.10
28	2456.60	0.00	28	2457.80	0.15	28	2458.90	1.80
29	2456.60	0.10				29	2459.60	0.00
30	2456.50	0.00				30	2459.90	0.00
31	2456.50	0.00				31	2460.00	0.00
		<u>8.21</u>			<u>3.33</u>			<u>4.87</u>

April	Lake Level	Rain Fall	May	Lake Level	Rain Fall	June	Lake Level	Rain Fall
1	2460.00	0.55	1	2460.30	0.00	1	2460.90	0.00
2	2460.00	0.65	2	2460.40	0.00	2	2460.90	0.00
3	2460.20	0.00	3	2460.40	0.20	3	2460.90	0.00
4	2460.40	0.00	4	2460.50	0.00	4	2460.90	0.00
5	2460.50	0.00	5	2460.50	0.00	5	2460.90	0.00
6	2460.50	0.00	6	2460.50	0.00	6	2461.00	0.00
7	2460.40	0.04	7	2460.50	0.00	7	2461.00	0.20
8	2460.40	0.40	8	2460.50	0.00	8	2461.00	0.15
9	2460.50	0.00	9	2460.50	0.00	9	2461.00	0.00
10	2460.50	0.20	10	2460.50	0.00	10	2460.90	0.00
11	2460.50	0.00	11	2460.50	0.00	11	2460.94	0.00
12	2460.40	0.00	12	2460.50	0.12	12	2460.94	0.60
13	2460.30	0.00	13	2460.50	0.00	13	2461.10	0.00
14	2460.10	0.00	14	2460.60	0.35	14	2461.10	0.10
15	2460.00	0.00	15	2460.60	0.25	15	2461.10	0.11
16	2460.00	0.00	16	2460.60	0.00	16	2460.90	0.00
17	2460.00	0.00	17	2460.60	0.00	17	2460.85	0.37
18	2460.00	0.00	18	2460.64	0.00	18	2460.85	0.20
19	2459.90	0.00	19	2460.60	0.00	19	2460.85	0.00
20	2459.90	0.00	20	2460.80	0.35	20	2460.90	0.00
21	2459.90	0.05	21	2460.90	0.00	21	2460.50	0.00
22	2459.80	1.40	22	2461.00	0.00	22	2460.90	0.00
23	2459.80	0.35	23	2461.00	0.00	23	2460.60	0.00
24	2459.90	0.42	24	2461.00	0.25	24	2460.80	0.00
25	2460.00	0.15	25	2460.90	0.08	25	2460.74	0.00
26	2460.00	0.00	26	2460.90	0.00	26	2460.74	0.00
27	2460.10	0.00	27	2460.85	0.00	27	2460.80	0.00
28	2460.25	0.00	28	2460.85	0.00	28	2460.80	0.00
29	2460.24	0.15	29	2460.85	0.00	29	2460.70	0.00
30	2460.30	0.35	30	2460.85	0.00	30	2460.70	0.00
			31	2460.80	0.00			
		<u>4.71</u>			<u>1.60</u>			<u>1.73</u>

July	Lake Level	Rain Fall	August	Lake Level	Rain Fall	September	Lake Level	Rain Fall
1	2460.70	0.50	1	2459.60	0.00	1	2458.70	0.25
2	2460.63	0.00	2	2459.60	0.00	2	2458.70	0.00
3	2460.63	0.00	3	2459.60	0.00	3	2458.60	0.00
4	2460.60	0.00	4	2459.60	0.00	4	2458.60	0.00
5	2460.50	0.00	5	2459.60	0.00	5	2458.50	0.00
6	2460.60	1.15	6	2459.50	0.00	6	2458.50	0.00
7	2460.60	0.00	7	2459.50	0.00	7	2458.50	0.00
8	2460.60	0.50	8	2459.40	0.00	8	2458.50	0.00
9	2460.60	0.32	9	2459.40	0.00	9	2458.40	0.00
10	2460.60	0.00	10	2459.40	0.00	10	2458.20	0.00
11	2460.60	0.00	11	2459.30	0.00	11	2458.20	0.00
12	2460.40	2.35	12	2459.20	0.00	12	2458.30	0.00
13	2460.40	0.71	13	2459.20	0.00	13	2458.20	0.00
14	2460.50	0.00	14	2459.10	0.30	14	2458.20	0.00
15	2460.50	0.00	15	2459.10	0.00	15	2458.20	0.00
16	2460.50	0.58	16	2459.00	0.00	16	2458.20	0.00
17	2460.50	0.17	17	2459.00	0.30	17	2458.10	0.00
18	2460.50	0.16	18	2458.90	0.00	18	2458.10	0.00
19	2460.40	0.35	19	2458.90	0.15	19	2458.00	0.00
20	2460.30	0.00	20	2458.80	0.95	20	2458.00	0.00
21	2460.20	0.00	21	2458.82	0.00	21	2458.00	0.00
22	2460.10	0.00	22	2458.90	0.00	22	2457.90	0.00
23	2460.14	0.00	23	2458.80	0.00	23	2457.80	0.00
24	2460.10	0.00	24	2458.80	0.00	24	2457.70	0.00
25	2460.10	0.00	25	2458.70	0.00	25	2457.70	0.00
26	2459.80	0.05	26	2458.70	0.00	26	2457.70	0.00
27	2459.80	0.07	27	2458.61	1.15	27	2457.70	0.45
28	2459.80	0.00	28	2458.69	0.00	28	2457.60	0.00
29	2459.80	0.00	29	2458.70	0.10	29	2457.60	0.35
30	2459.70	0.00	30	2458.70	0.12	30	2457.60	0.00
31	2459.70	0.00	31	2458.72	0.00			
		<u>6.91</u>			<u>3.07</u>			<u>1.05</u>

October	Lake Level	Rain Fall	November	Lake Level	Rain Fall	December	Lake Level	Rain Fall
1	2457.50	0.00	1	2457.30	0.40	1	2457.10	0.00
2	2456.94	0.00	2	2457.20	0.00	2	2456.80	0.03
3	2457.50	0.00	3	2457.20	0.00	3	2456.40	0.25
4	2457.40	0.00	4	2457.20	0.00	4	2456.35	0.07
5	2457.40	0.00	5	2457.20	0.00	5	2456.80	0.53
6	2457.40	0.00	6	2457.30	0.00	6	2456.70	0.00
7	2457.30	1.30	7	2457.10	0.00	7	2456.70	0.02
8	2457.40	0.50	8	2456.67	0.00	8	2456.80	0.45
9	2457.50	0.00	9	2456.83	0.40	9	2456.80	0.25
10	2457.50	0.00	10	2457.10	0.45	10	2456.37	0.00
11	2457.40	0.55	11	2457.10	0.08	11	2456.47	0.18
12	2457.40	0.00	12	2457.10	0.00	12	2456.80	0.00
13	2457.40	0.00	13	2457.10	0.00	13	2456.70	0.00
14	2457.40	0.00	14	2457.10	0.00	14	2456.70	0.00
15	2457.33	0.00	15	2457.10	0.14	15	2456.60	0.00
16	2457.20	0.00	16	2457.20	0.10	16	2456.60	0.20
17	2457.30	0.00	17	2457.20	0.75	17	2456.10	0.45
18	2457.30	0.00	18	2457.00	0.00	18	2456.10	0.00
19	2457.20	0.00	19	2456.99	0.00	19	2456.60	0.05
20	2457.20	0.00	20	2456.99	0.00	20	2456.60	0.02
21	2457.20	0.05	21	2457.00	0.00	21	2456.50	0.00
22	2456.87	0.43	22	2456.90	0.20	22	2456.50	0.00
23	2457.00	0.43	23	2456.90	0.45	23	2456.50	0.00
24	2457.20	0.70	24	2456.90	0.15	24	2456.20	0.00
25	2457.30	0.82	25	2456.70	0.00	25	2456.00	0.00
26	2457.40	0.00	26	2456.60	0.50	26	2456.18	0.50
27	2457.30	0.20	27	2456.70	0.50	27	2456.28	0.01
28	2457.20	0.07	28	2456.90	0.10	28	2456.60	0.00
29	2457.24	0.04	29	2456.90	2.43	29	2456.60	0.00
30	2457.17	0.00	30	2457.10	0.00	30	2456.60	0.00
31	2457.30	0.00				31	2456.44	0.00
		<u>5.09</u>			<u>6.65</u>			<u>3.01</u>
						Year Total		50.23

SUMMARY OF DAILY EXCEEDANCES OF THE URB

Summary of Daily Exceedances of the URB

Date	Reservoir Level (Ft)	Upper Rule Band (Ft)	Δ (Ft)
January 8	2458.00	2457.90	0.10
January 9	2458.00	2457.90	0.10
January 10	2458.00	2457.90	0.10
January 11	2458.00	2457.90	0.10
January 12	2458.20	2457.90	0.30
January 13	2458.40	2457.90	0.50
January 14	2458.30	2457.90	0.40
January 15	2458.10	2457.90	0.20
March 31	2460.00	2459.50	0.50
April 1	2461.30	2461.00	0.30
April 2	2461.20	2461.00	0.20
April 3	2461.20	2461.00	0.20
April 4	2461.10	2461.00	0.10
April 5	2460.10	2461.00	0.10
April 6	2460.10	2461.00	0.10
April 7	2459.30	2461.00	0.30
April 8	2459.30	2461.00	0.30
April 9	2459.20	2461.00	0.20
April 10	2459.10	2461.00	0.10
April 11	2459.10	2461.00	0.10
April 12	2459.10	2461.00	0.10
April 13	2459.20	2461.00	0.20
April 14	2459.40	2461.00	0.40
June 10	2461.10	2461.00	0.30
June 11	2461.10	2461.00	0.10
June 12	2461.10	2461.00	0.10
June 13	2461.10	2461.00	0.10
June 14	2461.10	2461.00	0.10

APPENDIX B

TEMPERATURE MONITORING AND RELEASE REPORTS

Daily maximum river water temperatures in the Youghiogheny River at Sang Run are presented in the tables in Appendix B. These data were collated and provided by Versar, Inc., consultant to the MDNR Power Plant Assessment Division (PPAD). Due to problems installing equipment, the data provided by Versar, Inc. did not begin until June 14, 2005.

The column labeled "SMAX" lists the arithmetic means of the daily maximum water temperatures, in degrees C, measured by two "Tempmentors" placed in the river by the MDNR. The column labeled "PenSmax" lists the maximum water temperatures, in degrees C, measured by the Permittee's temperature monitor at the Sang Run Bridge. PPAD and Versar analyze the data to evaluate the Water Temperature Enhancement Plan used by the Permittee to determine the need and timing of daily temperature releases.

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 enclosed.

MAXIMUM DAILY RIVER WATER TEMPERATURES

**DEEP CREEK STATION
YOUGHIOGHENY RIVER TEMPERATURE DATA 2005**

JUNE	SMAX	PMAX	JULY	SMAX	PMAX	AUGUST	SMAX	PMAX
1	N/A	20.56	1	23.57	N/A	1	24.60	23.42
2	N/A	16.86	2	22.98	N/A	2	28.95	29.38
3	N/A	15.76	3	24.35	N/A	3	29.68	30.15
4	N/A	18.94	4	21.97	N/A	4	26.08	25.76
5	N/A	22.73	5	25.04	N/A	5	24.31	23.66
6	N/A	20.71	6	26.26	N/A	6	23.74	23.97
7	N/A	23.70	7	24.35	N/A	7	25.30	25.70
8	N/A	22.34	8	20.98	N/A	8	21.64	22.31
9	N/A	24.29	9	21.14	N/A	9	25.47	25.50
10	N/A	20.88	10	24.69	N/A	10	25.13	23.93
11	N/A	25.22	11	20.57	21.20	11	25.47	24.91
12	N/A	26.94	12	26.96	26.73	12	23.57	23.15
13	N/A	23.22	13	23.32	23.06	13	23.91	23.56
14	25.04	24.77	14	22.47	22.77	14	27.95	28.30
15	23.15	23.21	15	21.97	22.01	15	21.72	22.04
16	21.14	21.33	16	21.97	22.47	16	22.14	22.57
17	19.19	19.80	17	21.39	21.65	17	25.47	24.92
18	21.48	21.80	18	20.98	21.03	18	24.18	24.00
19	20.82	21.03	19	20.98	21.14	19	21.81	22.40
20	19.52	19.48	20	21.14	21.22	20	26.43	25.73
21	23.49	23.57	21	20.90	21.11	21	25.91	26.40
22	23.66	23.92	22	21.56	21.59	22	22.47	22.64
23	26.26	26.60	23	21.97	21.35	23	24.52	25.21
24	22.56	21.40	24	23.49	23.86	24	25.56	25.64
25	28.76	28.91	25	21.81	22.13	25	21.56	21.16
26	29.50	29.80	26	25.21	25.44	26	19.35	19.89
27	25.21	24.91	27	26.87	26.73	27	19.03	19.48
28	26.52	N/A	28	24.52	24.72	28	23.32	23.84
29	28.49	N/A	29	22.56	22.94	29	20.09	20.48
30	27.05	N/A	30	25.91	25.82	30	21.81	22.10
			31	26.61	26.45	31	21.14	21.57

DEEP CREEK TEMPERATURE ENHANCEMENT PLAN

SANG RUN TEMPERATURE EXCEEDANCES

**Summary of Temperature Excursions
June 1, 2005 to August 31, 2005**

Date	Duration	Max. Temp (C)	Category and Cause	Remarks
JUN 05				
6/11/05	1 hr	25.22	(3) Corrupt spreadsheet/improper data in spreadsheet (3) Operator misinterpretation of results	Corrupt spreadsheet showed release needed. Corrected spreadsheet with correct data shows release not needed.
6/12/05	6 hr	26.94	(1) Model uncertainty	"Flow > 100 cfs at Oakland"; no release needed. Corrupt spreadsheet showed release not needed. Corrected spreadsheet with correct data shows release not needed.
6/23/05	4 ½ hr	26.56	(3)) Corrupt spreadsheet/improper data in spreadsheet (3) Operator misinterpretation of results	Corrected spreadsheet with correct data shows release needed.
6/25/05	9 hr	28.91	(3) Corrupt spreadsheet/improper data in spreadsheet (3) Operator misinterpretation of results	Corrected spreadsheet with correct data shows release needed.
6/26/05	10 ½ hr	29.8	(3) Corrupt spreadsheet/improper data in spreadsheet (3) Operator misinterpretation of results	Corrected spreadsheet with correct data shows release needed.
6/28/05	40 min	25.28	(1) Model uncertainty	Corrupt spreadsheet showed release needed; release initiated at 1100. Corrected spreadsheet with correct data also shows release needed, but not until 1230.
6/29/05	10 ½ hr	28.54	(3) Corrupt spreadsheet/improper data in spreadsheet (3) Operator misinterpretation of results	Corrupt spreadsheet showed release not needed. Corrected spreadsheet with correct data shows release needed.
6/30/05	1 hr	27.11	(1) Model uncertainty	Corrupt spreadsheet showed release needed; release initiated at 1100. Corrected spreadsheet with correct data shows release needed at 1100.
JUL 05				
<i>Note – by July 5th corrupt spreadsheet/improper data aspects of spreadsheet were corrected</i>				
7/5/05	1 hr	25.02	(1) Model uncertainty	Protocol showed release not needed.
7/6/05	4 ½ hr	26.28	(1) Model uncertainty	"Flow > 100 cfs at Oakland"; no release needed. Protocol showed release not needed.
7/10/05	4 hr	25.49	(1) Model uncertainty	"Flow > 100 cfs at Oakland"; no release needed. Protocol showed release not needed.
7/12/05	3 ½ hr	26.71	(1) Model uncertainty	Corrected Spreadsheet showed release not needed.
7/26/05	40 min	25.44	(1) Model uncertainty	"Flow > 100 cfs at Oakland"; no release needed. Protocol showed release not needed. Generation did occur from 1300 to 1600.
7/27/05	6 hr	26.73	(1) Model uncertainty	"Flow > 100 cfs at Oakland"; no release needed. Protocol showed release not needed.
7/30/05	1 hr	25.82	(1) Model uncertainty	Protocol showed release needed; release initiated at 1230.
7/31/05	1 ½ hr	26.44	(1) Model uncertainty	Protocol showed release needed; release initiated at 1230.
AUG 05				
8/2/05	11 hr	29.38	(2) Protocol not fully completed	A fully completed protocol showed release needed,
8/3/05	11 hr	30.15	(2) Protocol not fully completed	A fully completed protocol showed release needed. 1 hr of the 8/3 excursion extended into 8/4 until 0100.

**Summary of Temperature Excursions
June 1, 2005 to August 31, 2005**

Date	Duration	Max. Temp (C)	Category and Cause	Remarks
8/4/05	1 hr 40 min	25.49	(1) Model uncertainty	Protocol showed release needed; release initiated at 1100.
8/7/05	1 hr 20 min	25.7	(1) Model uncertainty	Protocol showed release needed; release initiated at 1230.
8/9/05	40 min	25.5	(1) Model uncertainty	Protocol showed release needed; release initiated at 1200.
8/14/05	3hr 10 min	27.83	(1) Model uncertainty	Protocol showed release needed; release initiated at 1530.
8/20/05	50 min	25.73	(1) Model uncertainty	Protocol showed release needed; release initiated at 1230.
8/21/05	50 min	26.40	(1) Model uncertainty	Corrected Spreadsheet showed release not needed.
8/23/05	1 hr 20 min	25.21	(1) Model uncertainty	"Flow > 100 cfs at Oakland"; no release needed. Protocol showed release not needed.
8/24/05	1 hr 10 min	25.64	(1) Model uncertainty	Protocol showed release needed; release initiated at 1530.

Category (1) Completed established protocol; temperature exceeded 25° C.

Category (2) Failure to complete established protocol; temperature exceeded 25° C.

Category (3) Completed established protocol using corrupt spreadsheet producing misleading information to operator; temperature exceeded 25° C.

DEEP CREEK TEMPERATURE ENHANCEMENT RELEASES

2005 DATES & TIMES OF TEMPERATURE ENHANCEMENT RELEASES

DATE	START TIME	STOP TIME	RIVER FLOW (CFS)
June 24, 2005	1100	1800	39
June 27, 2005	1000	1310	24
June 28, 2005	1100	1300	21
June 30, 2005	1100	1300	24
July 1, 2005	1000	1300	22
July 2, 2005	1000	1300	19
July 30, 2005	1230	1430	75
July 31, 2005	1230	1430	64
August 1, 2005	1000	1300	56
August 4, 2005	1100	1300	39
August 5, 2005	1000	1300	35
August 6, 2005	1000	1300	32
August 7, 2005	1230	1430	30
August 9, 2005	1200	1500	75
August 10, 2005	1100	1400	54
August 11, 2005	1200	1500	39
August 12, 2005	1000	1430	32
August 13, 2005	1000	1300	29
August 14, 2005	1500	1630	25
August 17, 2005	1200	1500	22
August 18, 2005	1355	1500	22
August 20, 2005	1230	1430	22
August 24, 2005	1500	1600	36
August 25, 2005	1100	1300	30

DEEP CREEK DAILY TEMPERATURE PLAN SHEETS



Print Info for file

Time	Oakland Flow CFS	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	<30	12.37	Temperature Plan not required today
	<=30	17.89	Temperature Plan not required today
0900	> 30	10.81	Temperature Plan not required today
	<=30	16.33	Temperature Plan not required today
1100	All	11.54	Temperature Plan not required today
1200	All	10.21	Temperature Plan not required today
1400	All	5.79	Temperature Plan not required today
1500	All	4.14	Temperature Plan not required today

Tair	21.67	Air Temp, Elkins WW - Degree C
CCF	1.00	Cloud Cover Factor, Elkins WW
T7	0.00	River Temp Sang Run @700
T9	0.00	River Temp Sang Run @900
T11	0.00	River Temp Sang Run @1100
T12	0.00	River Temp Sang Run @1200
T14	0.00	River Temp Sang Run @1400
T15	0.00	River Temp Sang Run @1500
Q	168.00	River Flow at Oakland

71 Air Temp, Elkins WW - Degree F
sunny Cloud Cover, Elkins WW



Print Info for file

Time	Oakland Flow CFS	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	>30	17.97	Temperature Plan not required today
	<=30	22.45	Temperature Plan not required today
0900	> 30	0.77	Temperature Plan not required today
	<=30	5.25	Temperature Plan not required today
1100	All	11.40	Temperature Plan not required today
1200	All	10.09	Temperature Plan not required today
1400	All	5.73	Temperature Plan not required today
1500	All	4.11	Temperature Plan not required today

Tair	21.11	Air Temp, Elkins WV - Degree C
CCF	1.00	Cloud Cover Factor, Elkins WV
T7	14.03	River Temp Sang Run @700
T9	0.00	River Temp Sang Run @900
T11	0.00	River Temp Sang Run @1100
T12	0.00	River Temp Sang Run @1200
T14	0.00	River Temp Sang Run @1400
T15	0.00	River Temp Sang Run @1500
Q	142.00	River Flow at Oakland

70
sunny

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



112 = CFS River Flow at Oakland

June 3, 2005

Print Info for file

Time	Oakland Flow CFS	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	>30	18.18	Temperature Plan not required today
	<=30	21.58	Temperature Plan not required today
0900	> 30	-0.22	Temperature Plan not required today
	<=30	3.18	Temperature Plan not required today
1100	All	10.77	Temperature Plan not required today
1200	All	9.59	Temperature Plan not required today
1400	All	5.73	Temperature Plan not required today
1500	All	4.11	Temperature Plan not required today

Tair	21.11	Air Temp, Elkins WV - Degree C
CCF	64.00	Cloud Cover Factor, Elkins WV
T7	14.98	River Temp Sang Run @700
T9	0.00	River Temp Sang Run @900
T11	0.00	River Temp Sang Run @1100
T12	0.00	River Temp Sang Run @1200
T14	0.00	River Temp Sang Run @1400
T15	0.00	River Temp Sang Run @1500
Q	115.00	River Flow at Oakland

70
SHWRS

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

182 = CFS River Flow at Oakland

June 4, 2005

Print Info for file

Time	Oakland Flow CFS	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	<30	17.52	Temperature Plan not required today
	<=30	20.80	Temperature Plan not required today
0900	> 30	-0.64	Temperature Plan not required today
	<=30	2.64	Temperature Plan not required today
1100	All	10.41	Temperature Plan not required today
1200	All	9.30	Temperature Plan not required today
1400	All	5.73	Temperature Plan not required today
1500	All	4.11	Temperature Plan not required today

Tair	21.11	Air Temp, Elkins WV - Degree C
CCF	100.00	Cloud Cover Factor, Elkins WV
T7	14.70	River Temp Sang Run @700
T9	0.00	River Temp Sang Run @900
T11	0.00	River Temp Sang Run @1100
T12	0.00	River Temp Sang Run @1200
T14	0.00	River Temp Sang Run @1400
T15	0.00	River Temp Sang Run @1500
Q	112.00	River Flow at Oakland

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

118 = CFS River Flow at Oakland

June 5, 2005

Print Info for file

Time	Oakland Flow CFS	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	>30	21.15	Temperature Plan not required today
	<=30	24.67	Temperature Plan not required today
0900	> 30	1.08	Temperature Plan not required today
	<=30	4.60	Temperature Plan not required today
1100	All	12.83	Temperature Plan not required today
1200	All	11.37	Temperature Plan not required today
1400	All	6.59	Temperature Plan not required today
1500	All	4.52	Temperature Plan not required today

Tair	29.44	Air Temp, Elkins WV - Degree C
CCF	64.00	Cloud Cover Factor, Elkins WV
T7	16.20	River Temp Sang Run @700
T9	0.00	River Temp Sang Run @900
T11	0.00	River Temp Sang Run @1100
T12	0.00	River Temp Sang Run @1200
T14	0.00	River Temp Sang Run @1400
T15	0.00	River Temp Sang Run @1500
Q	118.00	River Flow at Oakland

85
SHWRS

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

Print Info for file

Time	Oakland Flow CFS	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	>30 <=30	21.95 24.67	No further predictions necessary today Check again at 0900
0900	> 30 <=30	0.11 2.83	No further predictions necessary today No further predictions necessary today
1100	All	12.61	No further predictions necessary today
1200	All	11.20	No further predictions necessary today
1400	All	6.65	No further predictions necessary today
1500	All	4.55	No further predictions necessary today

Tair	30.00	Air Temp, Elkins WV - Degree C
CCF	100.00	Cloud Cover Factor, Elkins WV
T7	17.70	River Temp Sang Run @700
T9	0.00	River Temp Sang Run @900
T11	0.00	River Temp Sang Run @1100
T12	0.00	River Temp Sang Run @1200
T14	0.00	River Temp Sang Run @1400
T15	0.00	River Temp Sang Run @1500
Q	98.00	River Flow at Oakland

86
TSTRMS

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

1 8860



142 = CFS River Flow at Oakland

June 7, 2005

Time	Oakland Flow CFS	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	>30	22.08	Temperature Plan not required today
	<=30	26.56	Temperature Plan not required today
0900	> 30	-0.71	Temperature Plan not required today
	<=30	3.77	Temperature Plan not required today
1100	All	13.52	Temperature Plan not required today
1200	All	11.95	Temperature Plan not required today
1400	All	6.76	Temperature Plan not required today
1500	All	4.60	Temperature Plan not required today

Print Info for file

Tair	31.11	Air Temp, Elkins WV - Degree C
CCF	36.00	Cloud Cover Factor, Elkins WV
T7	18.62	River Temp Sang Run @700
T9	0.00	River Temp Sang Run @900
T11	0.00	River Temp Sang Run @1100
T12	0.00	River Temp Sang Run @1200
T14	0.00	River Temp Sang Run @1400
T15	0.00	River Temp Sang Run @1500
Q	142.00	River Flow at Oakland

88
PTCLDY

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

186 = CFS River Flow at Oakland

June 8, 2005

Print Info for file

Time	Oakland Flow CFS	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	>30	19.00	Temperature Plan not required today
	<=30	25.24	Temperature Plan not required today
0900	> 30	-3.58	Temperature Plan not required today
	<=30	2.66	Temperature Plan not required today
1100	All	12.88	Temperature Plan not required today
1200	All	11.44	Temperature Plan not required today
1400	All	6.76	Temperature Plan not required today
1500	All	4.60	Temperature Plan not required today

Tair	31.11	Air Temp, Elkins WV - Degree C
CCF	100.00	Cloud Cover Factor, Elkins WV
T7	18.32	River Temp Sang Run @700
T9	0.00	River Temp Sang Run @900
T11	0.00	River Temp Sang Run @1100
T12	0.00	River Temp Sang Run @1200
T14	0.00	River Temp Sang Run @1400
T15	0.00	River Temp Sang Run @1500
Q	186.00	River Flow at Oakland

88
TSTRMS

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



Print Info for file

Time	Oakland Flow CFS	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	>30	20.12	Temperature Plan not required today
	<=30	24.20	Temperature Plan not required today
0900	> 30	-3.02	Temperature Plan not required today
	<=30	1.06	Temperature Plan not required today
1100	All	11.92	Temperature Plan not required today
1200	All	10.61	Temperature Plan not required today
1400	All	6.36	Temperature Plan not required today
1500	All	4.41	Temperature Plan not required today

Tair	27.22	Air Temp, Elkins WV - Degree C
CCF	100.00	Cloud Cover Factor, Elkins WV
T7	18.96	River Temp Sang Run @700
T9	0.00	River Temp Sang Run @900
T11	0.00	River Temp Sang Run @1100
T12	0.00	River Temp Sang Run @1200
T14	0.00	River Temp Sang Run @1400
T15	0.00	River Temp Sang Run @1500
Q	132.00	River Flow at Oakland

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

142 = CFS River Flow at Oakland

June 10, 2005

Print Info for file

Time	Oakland Flow CFS	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	>30	19.69	Temperature Plan not required today
	<=30	24.17	Temperature Plan not required today
0900	> 30	-3.91	Temperature Plan not required today
	<=30	0.57	Temperature Plan not required today
1100	All	11.79	Temperature Plan not required today
1200	All	10.49	Temperature Plan not required today
1400	All	6.31	Temperature Plan not required today
1500	All	4.39	Temperature Plan not required today

Tair	26.67	Air Temp, Elkins WV - Degree C
CCF	100.00	Cloud Cover Factor, Elkins WV
T7	19.39	River Temp Sang Run @700
T9	0.00	River Temp Sang Run @900
T11	0.00	River Temp Sang Run @1100
T12	0.00	River Temp Sang Run @1200
T14	0.00	River Temp Sang Run @1400
T15	0.00	River Temp Sang Run @1500
Q	142.00	River Flow at Oakland

80
TSTRMS

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

= CFS River Flow at Oakland

June 11, 2005

Print Info for file

Time	Oakland Flow CFS	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	>30	27.18	Release at 1100 for 2 hours
	<=30	26.94	Release at 1100 for 2 hours
0900	> 30	27.01	Release at 1100 for 2 hours
	<=30	26.77	Release at 1100 for 2 hours
1100	All	-4.38	No further predictions necessary today
1200	All	2.19	No further predictions necessary today
1400	All	6.76	No further predictions necessary today
1500	All	4.60	No further predictions necessary today

Tair	31.11	Air Temp, Elkins WV - Degree C
CCF	64.00	Cloud Cover Factor, Elkins WV
T7	21.34	River Temp Sang Run @700
T9	21.28	River Temp Sang Run @900
T11	0.00	River Temp Sang Run @1100
T12	0.00	River Temp Sang Run @1200
T14	0.00	River Temp Sang Run @1400
T15	0.00	River Temp Sang Run @1500
Q	24.00	River Flow at Oakland

88
SHWRS

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

Time	Oakland Flow CFS	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	>30	23.25	Check again at 0900
	<=30	25.97	Check again at 0900
0900	> 30	-1.11	No further predictions necessary today
	<=30	1.61	No further predictions necessary today
1100	All	12.83	No further predictions necessary today
1200	All	11.37	No further predictions necessary today
1400	All	6.59	No further predictions necessary today
1500	All	4.52	No further predictions necessary today

Print Info for file

Tair	29.44	Air Temp, Elkins WV - Degree C
CCF	64.00	Cloud Cover Factor, Elkins WV
T7	20.03	River Temp Sang Run @700
T9	0.00	River Temp Sang Run @900
T11	0.00	River Temp Sang Run @1100
T12	0.00	River Temp Sang Run @1200
T14	0.00	River Temp Sang Run @1400
T15	0.00	River Temp Sang Run @1500
Q	98.00	River Flow at Oakland

85
SHWRS

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

temp @ 0900 NOT ENTERED

- ∴ MISSED temp enhancement run. prompt but
OAKLAND Flow ≥ 100 CFS ∴ NOT RECD¹⁰

Time	Oakland Flow CFS	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	>30	17.84	Temperature Plan not required today
	<=30	25.96	Temperature Plan not required today
0900	> 30	18.16	Temperature Plan not required today
	<=30	26.28	Temperature Plan not required today
1100	All	-4.59	Temperature Plan not required today
1200	All	1.90	Temperature Plan not required today
1400	All	6.54	Temperature Plan not required today
1500	All	4.50	Temperature Plan not required today

Print Info for file

Tair	28.89	Air Temp, Elkins WV - Degree C
CCF	64.00	Cloud Cover Factor, Elkins WV
T7	20.55	River Temp Sang Run @700
T9	20.88	River Temp Sang Run @900
T11	0.00	River Temp Sang Run @1100
T12	0.00	River Temp Sang Run @1200
T14	0.00	River Temp Sang Run @1400
T15	0.00	River Temp Sang Run @1500
Q	233.00	River Flow at Oakland

84
SHWRS

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

93 = CFS River Flow at Oakland

June 14, 2005

Time	Oakland Flow CFS	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	>30 <=30	23.40 25.92	Check again at 0900 Check again at 0900
0900	> 30 <=30	-2.57 -0.05	No further predictions necessary today No further predictions necessary today
1100	All	12.61	No further predictions necessary today
1200	All	11.20	No further predictions necessary today
1400	All	6.65	No further predictions necessary today
1500	All	4.55	No further predictions necessary today

Print Info for file

Tair	30.00	Air Temp, Elkins WV - Degree C
CCF	100.00	Cloud Cover Factor, Elkins WV
T7	21.40	River Temp Sang Run @700
T9	0.00	River Temp Sang Run @900
T11	0.00	River Temp Sang Run @1100
T12	0.00	River Temp Sang Run @1200
T14	0.00	River Temp Sang Run @1400
T15	0.00	River Temp Sang Run @1500
Q	93.00	River Flow at Oakland

86
TSTRMS

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

73 = CFS River Flow at Oakland

June 15, 2005

Time	Oakland Flow CFS	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	>30	23.71	Check again at 0900
	<=30	25.43	Check again at 0900
0900	> 30	23.88	Check again at 1100
	<=30	25.60	Check again at 1100
1100	All	-4.88	No further predictions necessary today
1200	All	1.61	No further predictions necessary today
1400	All	6.36	No further predictions necessary today
1500	All	4.41	No further predictions necessary today

Print Info for file

Tair	27.22	Air Temp, Elkins WV - Degree C
CCF	64.00	Cloud Cover Factor, Elkins WV
T7	20.57	River Temp Sang Run @700
T9	20.73	River Temp Sang Run @900
T11	0.00	River Temp Sang Run @1100
T12	0.00	River Temp Sang Run @1200
T14	0.00	River Temp Sang Run @1400
T15	0.00	River Temp Sang Run @1500
Q	73.00	River Flow at Oakland

81
SHWRS

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

Time	Oakland Flow CFS	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	>30	23.71	Check again at 0900
	<=30	25.43	Check again at 0900
0900	> 30	23.88	Check again at 1100
	<=30	25.60	Check again at 1100
1100	All	-4.88	No further predictions necessary today
1200	All	1.61	No further predictions necessary today
1400	All	6.36	No further predictions necessary today
1500	All	4.41	No further predictions necessary today

Print Info for file

Tair	27.22	Air Temp, Elkins WV - Degree C
CCF	64.00	Cloud Cover Factor, Elkins WV
T7	20.57	River Temp Sang Run @700
T9	20.73	River Temp Sang Run @900
T11	0.00	River Temp Sang Run @1100
T12	0.00	River Temp Sang Run @1200
T14	0.00	River Temp Sang Run @1400
T15	0.00	River Temp Sang Run @1500
Q	73.00	River Flow at Oakland

81
SHWRSAir Temp, Elkins WV - Degree F
Cloud Cover, Elkins WV

→ 0700 & 0900 DATA FROM JUNE 15

Print Info for file

Time	Oakland Flow CFS	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	>30	21.53	No further predictions necessary today Check again at 0900
	<=30	23.09	
0900	> 30	21.68	No further predictions necessary today Check again at 1100
	<=30	23.24	
1100	All	21.73	No further predictions necessary today
1200	All	0.52	No further predictions necessary today
1400	All	5.68	No further predictions necessary today
1500	All	4.09	No further predictions necessary today

Tair	20.56	Air Temp, Elkins WV - Degree C
CCF	64.00	Cloud Cover Factor, Elkins WV
T7	19.98	River Temp Sang Run @700
T9	19.96	River Temp Sang Run @900
T11	19.83	River Temp Sang Run @1100
T12	0.00	River Temp Sang Run @1200
T14	0.00	River Temp Sang Run @1400
T15	0.00	River Temp Sang Run @1500
Q	69.00	River Flow at Oakland

69
SHWRS

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



78 = CFS River Flow at Oakland

June 18, 2005

Time	Oakland Flow CFS	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	>30	19.76	Temperature Plan not required today
	<=30	22.60	Temperature Plan not required today
0900	> 30	-0.88	Temperature Plan not required today
	<=30	1.96	Temperature Plan not required today
1100	All	11.05	Temperature Plan not required today
1200	All	9.82	Temperature Plan not required today
1400	All	5.85	Temperature Plan not required today
1500	All	4.17	Temperature Plan not required today

Print Info for file

Tair	22.22	Air Temp, Elkins WV - Degree C
CCF	64.00	Cloud Cover Factor, Elkins WV
T7	16.96	River Temp Sang Run @700
T9	0.00	River Temp Sang Run @900
T11	0.00	River Temp Sang Run @1100
T12	0.00	River Temp Sang Run @1200
T14	0.00	River Temp Sang Run @1400
T15	0.00	River Temp Sang Run @1500
Q	101.00	River Flow at Oakland

72 SHWRS

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

Time	Oakland Flow CFS	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	>30	20.05	No further predictions necessary today
	<=30	21.97	No further predictions necessary today
0900	> 30	0.92	No further predictions necessary today
	<=30	2.84	No further predictions necessary today
1100	All	10.91	No further predictions necessary today
1200	All	9.70	No further predictions necessary today
1400	All	5.79	No further predictions necessary today
1500	All	4.14	No further predictions necessary today

Print Info for file

Tair	21.67	Air Temp, Elkins WV - Degree C
CCF	64.00	Cloud Cover Factor, Elkins WV
T7	15.62	River Temp Sang Run @700
T9	0.00	River Temp Sang Run @900
T11	0.00	River Temp Sang Run @1100
T12	0.00	River Temp Sang Run @1200
T14	0.00	River Temp Sang Run @1400
T15	0.00	River Temp Sang Run @1500
Q	78.00	River Flow at Oakland

71
SHWRS

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

Print Info for file

Time	Oakland Flow CFS	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	>30	21.60	No further predictions necessary today
	<=30	22.64	No further predictions necessary today
0900	> 30	1.97	No further predictions necessary today
	<=30	3.01	No further predictions necessary today
1100	All	11.32	No further predictions necessary today
1200	All	10.06	No further predictions necessary today
1400	All	5.96	No further predictions necessary today
1500	All	4.22	No further predictions necessary today

Tair	23.33	Air Temp, Elkins WV - Degree C
CCF	64.00	Cloud Cover Factor, Elkins WV
T7	16.01	River Temp Sang Run @700
T9	0.00	River Temp Sang Run @900
T11	0.00	River Temp Sang Run @1100
T12	0.00	River Temp Sang Run @1200
T14	0.00	River Temp Sang Run @1400
T15	0.00	River Temp Sang Run @1500
Q	56.00	River Flow at Oakland

74
SHWRS

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



Print Info for file

Time	Oakland Flow CFS	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	>30 <=30	22.54 23.18	No further predictions necessary today Check again at 0900
0900	> 30 <=30	2.84 3.48	No further predictions necessary today No further predictions necessary today
1100	All	11.74	No further predictions necessary today
1200	All	10.42	No further predictions necessary today
1400	All	6.14	No further predictions necessary today
1500	All	4.31	No further predictions necessary today

Tair	25.00	Air Temp, Elkins WV - Degree C
CCF	64.00	Cloud Cover Factor, Elkins WV
T7	16.02	River Temp Sang Run @700
T9	0.00	River Temp Sang Run @900
T11	0.00	River Temp Sang Run @1100
T12	0.00	River Temp Sang Run @1200
T14	0.00	River Temp Sang Run @1400
T15	0.00	River Temp Sang Run @1500
Q	46.00	River Flow at Oakland

77
SHWRS

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

Print Info for file

Time	Oakland Flow CFS	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	>30	23.19	Check again at 0900
	<=30	23.71	Check again at 0900
0900	> 30	3.45	No further predictions necessary today
	<=30	3.97	No further predictions necessary today
1100	All	12.15	No further predictions necessary today
1200	All	10.77	No further predictions necessary today
1400	All	6.31	No further predictions necessary today
1500	All	4.39	No further predictions necessary today

Tair	26.67	Air Temp, Elkins WV - Degree C
CCF	64.00	Cloud Cover Factor, Elkins WV
T7	16.00	River Temp Sang Run @700
T9	<u>0.00</u>	River Temp Sang Run @900
T11	0.00	River Temp Sang Run @1100
T12	0.00	River Temp Sang Run @1200
T14	0.00	River Temp Sang Run @1400
T15	0.00	River Temp Sang Run @1500
Q	43.00	River Flow at Oakland

80
SHWRS

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

47 = CFS River Flow at Oakland

June 23, 2005

Time	Oakland Flow CFS	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	>30	25.91	Check again at 0900 Check again at 0900
	<=30	25.39	
0900	> 30	4.71	No further predictions necessary today No further predictions necessary today
	<=30	4.19	
1100	All	12.98	No further predictions necessary today
1200	All	11.47	No further predictions necessary today
1400	All	6.54	No further predictions necessary today
1500	All	4.50	No further predictions necessary today

Print Info for file

Tair	28.89	Air Temp, Elkins WV - Degree C
CCF	36.00	Cloud Cover Factor, Elkins WV
T7	17.28	River Temp Sang Run @700
T9	0.00	River Temp Sang Run @900
T11	0.00	River Temp Sang Run @1100
T12	0.00	River Temp Sang Run @1200
T14	0.00	River Temp Sang Run @1400
T15	0.00	River Temp Sang Run @1500
Q	17.00	River Flow at Oakland

84
MOCLDY

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

Print Info for file

Time	Oakland Flow CFS	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	<30 <=30	23.37 24.17	Check again at 0900 Check again at 0900
0900	> 30 <=30	22.94 23.74	No further predictions necessary today Check again at 1100
1100	All	24.49	Check again at 1200
1200	All	24.60	Check again at 1400
1400	All	24.48	Check again at 1500
1500	All	25.58	Release ASAP - not later than 1530 for 1 hour

Tair	28.89	Air Temp, Elkins WV - Degree C
CCF	100.00	Cloud Cover Factor, Elkins WV
T7	17.28	River Temp Sang Run @700
T9	17.30	River Temp Sang Run @900
T11	19.01	River Temp Sang Run @1100
T12	20.20	River Temp Sang Run @1200
T14	22.17	River Temp Sang Run @1400
T15	24.02	River Temp Sang Run @1500
Q	50.00	River Flow at Oakland

84
TSTRMS

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

Print info for file

Time	Oakland Flow CFS	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	>30	25.39	Check again at 0900
	<=30	25.75	Check again at 0900
0900	> 30	3.47	No further predictions necessary today
	<=30	3.83	No further predictions necessary today
1100	All	13.24	No further predictions necessary today
1200	All	11.73	No further predictions necessary today
1400	All	6.76	No further predictions necessary today
1500	All	4.60	No further predictions necessary today

Tair	31.11	Air Temp, Elkins WV - Degree C
CCF	64.00	Cloud Cover Factor, Elkins WV
T7	17.80	River Temp Sang Run @700
T9	0.00	River Temp Sang Run @900
T11	0.00	River Temp Sang Run @1100
T12	0.00	River Temp Sang Run @1200
T14	0.00	River Temp Sang Run @1400
T15	0.00	River Temp Sang Run @1500
Q	39.00	River Flow at Oakland

88
SHWRS

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

27

= CFS River Flow at Oakland

June 26, 2005

Time	Oakland Flow CFS	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	>30	25.88	Check again at 0900
	<=30	25.88	Check again at 0900
0900	> 30	4.10	No further predictions necessary today
	<=30	4.10	No further predictions necessary today
1100	All	13.38	No further predictions necessary today
1200	All	11.84	No further predictions necessary today
1400	All	6.82	No further predictions necessary today
1500	All	4.63	No further predictions necessary today

Print info for file

Tair	31.67	Air Temp, Elkins WV - Degree C
CCF	64.00	Cloud Cover Factor, Elkins WV
T7	17.65	River Temp Sang Run @700
T9	0.00	River Temp Sang Run @900
T11	0.00	River Temp Sang Run @1100
T12	0.00	River Temp Sang Run @1200
T14	0.00	River Temp Sang Run @1400
T15	0.00	River Temp Sang Run @1500
Q	30.00	River Flow at Oakland

89
SHWRS

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



Time	Oakland Flow CFS	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	>30	26.90	Release at 1100 for 2 hours
	<=30	26.78	Release at 1100 for 2 hours
0900	> 30	2.70	No further predictions necessary today
	<=30	2.58	No further predictions necessary today
1100	All	13.52	No further predictions necessary today
1200	All	11.96	No further predictions necessary today
1400	All	6.88	No further predictions necessary today
1500	All	4.66	No further predictions necessary today

Print info for file

Tair	32.22	Air Temp, Elkins WV - Degree C
CCF	64.00	Cloud Cover Factor, Elkins WV
T7	19.80	River Temp Sang Run @700
T9	0.00	River Temp Sang Run @900
T11	0.00	River Temp Sang Run @1100
T12	0.00	River Temp Sang Run @1200
T14	0.00	River Temp Sang Run @1400
T15	0.00	River Temp Sang Run @1500
Q	27.00	River Flow at Oakland

90
SHWRS

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

WNR JAC

Time	Oakland Flow CFS	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	>30	26.96	Release at 1100 for 2 hours
	<=30	26.72	Release at 1100 for 2 hours
0900	> 30	2.40	No further predictions necessary today
	<=30	2.16	No further predictions necessary today
1100	All	13.38	No further predictions necessary today
1200	All	11.84	No further predictions necessary today
1400	All	6.82	No further predictions necessary today
1500	All	4.63	No further predictions necessary today

Print Info for file

Tair	31.67	Air Temp, Elkins WV - Degree C
CCF	64.00	Cloud Cover Factor, Elkins WV
T7	20.14	River Temp Sang Run @700
T9	0.00	River Temp Sang Run @900
T11	0.00	River Temp Sang Run @1100
T12	0.00	River Temp Sang Run @1200
T14	0.00	River Temp Sang Run @1400
T15	0.00	River Temp Sang Run @1500
Q	24.00	River Flow at Oakland

89
SHWRSAir Temp, Elkins WV - Degree F
Cloud Cover, Elkins WV

RAN 2 HRS JOC

Time	Oakland Flow CFS	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	>30	26.33	Check again at 0900
	<=30	25.97	Check again at 0900
0900	> 30	1.96	No further predictions necessary today
	<=30	1.60	No further predictions necessary today
1100	All	12.83	No further predictions necessary today
1200	All	11.37	No further predictions necessary today
1400	All	6.59	No further predictions necessary today
1500	All	4.52	No further predictions necessary today

Print info for file

Tair	29.44	Air Temp, Elkins WV - Degree C
CCF	64.00	Cloud Cover Factor, Elkins WV
T7	20.05	River Temp Sang Run @700
T9	0.00	River Temp Sang Run @900
T11	0.00	River Temp Sang Run @1100
T12	0.00	River Temp Sang Run @1200
T14	0.00	River Temp Sang Run @1400
T15	0.00	River Temp Sang Run @1500
Q	21.00	River Flow at Oakland

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

T9 NOT ENTERED
APC 8.13.05



Time	Oakland Flow CFS	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	>30	26.30	Check again at 0900
	<=30	25.94	Check again at 0900
0900	> 30	26.59	Release at 1100 for 2 hours
	<=30	26.23	Release at 1100 for 2 hours
1100	All	-4.52	No further predictions necessary today
1200	All	1.94	No further predictions necessary today
1400	All	6.54	No further predictions necessary today
1500	All	4.50	No further predictions necessary today

Print Info for file

Tair	28.89	Air Temp, Elkins WV - Degree C
CCF	64.00	Cloud Cover Factor, Elkins WV
T7	20.47	River Temp Sang Run @700
T9	20.79	River Temp Sang Run @900
T11	0.00	River Temp Sang Run @1100
T12	0.00	River Temp Sang Run @1200
T14	0.00	River Temp Sang Run @1400
T15	0.00	River Temp Sang Run @1500
Q	21.00	River Flow at Oakland

84
SHWRS

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

RAN 2HRS JAC

Time	Oakland Flow CFS	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	>30 <=30	27.18 26.94	Release at 1100 for 2 hours Release at 1100 for 2 hours
0900	> 30 <=30	27.01 26.77	Release at 1100 for 2 hours Release at 1100 for 2 hours
1100	All	-4.38	No further predictions necessary today
1200	All	2.19	No further predictions necessary today
1400	All	6.76	No further predictions necessary today
1500	All	4.60	No further predictions necessary today

Print Info for file

Tair	31.11	Air Temp, Elkins WV - Degree C
CCF	64.00	Cloud Cover Factor, Elkins WV
T7	21.34	River Temp Sang Run @700
T9	21.28	River Temp Sang Run @900
T11	0.00	River Temp Sang Run @1100
T12	0.00	River Temp Sang Run @1200
T14	0.00	River Temp Sang Run @1400
T15	0.00	River Temp Sang Run @1500
Q	24.00	River Flow at Oakland

88
SHWRS

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

WNR day = 3 hrs ABC

Time	Oakland Flow CFS	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	>30 <=30	26.54 26.22	Release at 1100 for 2 hours <u>Check again at 0900</u>
0900	> 30 <=30	1.34 1.02	No further predictions necessary today No further predictions necessary today
1100	All	12.83	No further predictions necessary today
1200	All	11.37	No further predictions necessary today
1400	All	6.59	No further predictions necessary today
1500	All	4.52	No further predictions necessary today

Print Info for file

Tair	29.44	Air Temp, Elkins WV - Degree C
CCF	64.00	Cloud Cover Factor, Elkins WV
T7	20.79	River Temp Sang Run @700
T9	<u>0.00</u>	River Temp Sang Run @900
T11	0.00	River Temp Sang Run @1100
T12	0.00	River Temp Sang Run @1200
T14	0.00	River Temp Sang Run @1400
T15	0.00	River Temp Sang Run @1500
Q	22.00	River Flow at Oakland

85
SHWRS

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

RAN 3 HRS XDC

Time	Oakland Flow CFS	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	>30 <=30	25.73 25.29	Check again at 0900 Check again at 0900
0900	> 30 <=30	25.44 25.00	Check again at 1100 Check again at 1100
1100	All	-4.77	No further predictions necessary today
1200	All	1.62	No further predictions necessary today
1400	All	8.31	No further predictions necessary today
1500	All	4.39	No further predictions necessary today

Print Info for file

Tair	26.67	Air Temp, Elkins WV - Degree C
CCF	64.00	Cloud Cover Factor, Elkins WV
T7	20.68	River Temp Sang Run @700
T9	20.43	River Temp Sang Run @900
T11	0.00	River Temp Sang Run @1100
T12	0.00	River Temp Sang Run @1200
T14	0.00	River Temp Sang Run @1400
T15	0.00	River Temp Sang Run @1500
Q	19.00	River Flow at Oakland

80
SHWRSAir Temp, Elkins WV - Degree F
Cloud Cover, Elkins WVT11 NOT ENTERED *Joe* 9.13.05

Time	Oakland Flow CFS	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	>30	24.74	Check again at 0900
	<=30	24.22	Check again at 0900
0900	> 30	24.55	Check again at 1100
	<=30	24.03	Check again at 1100
1100	All	24.99	Check again at 1200
1200	All	24.74	Check again at 1400
1400	All	-6.48	No further predictions necessary today
1500	All	-2.26	No further predictions necessary today

Print info for file

Tair	27.22	Air Temp, Elkins WV - Degree C
CCF	100.00	Cloud Cover Factor, Elkins WV
T7	19.00	River Temp Sang Run @700
T9	19.04	River Temp Sang Run @900
T11	20.70	River Temp Sang Run @1100
T12	21.40	River Temp Sang Run @1200
T14	0.00	River Temp Sang Run @1400
T15	0.00	River Temp Sang Run @1500
Q	17.00	River Flow at Oakland

81
TSTRMS

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

PLAN 3 NRS ARE

15 = CFS River Flow at Oakland

July 5, 2005



Print info for file

Time	Oakland Flow CFS	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	>30	25.17	Check again at 0900
	<=30	24.57	Check again at 0900
0900	> 30	25.08	Check again at 1100
	<=30	24.48	Check again at 1100
1100	All	23.66	Check again at 1200
1200	All	23.70	Check again at 1400
1400	All	23.71	Check again at 1500
1500	All	24.45	No further predictions necessary today

Tair	27.78	Air Temp, Elkins WV - Degree C
CCF	100.00	Cloud Cover Factor, Elkins WV
T7	19.51	River Temp Sang Run @700
T9	19.61	River Temp Sang Run @900
T11	19.98	River Temp Sang Run @1100
T12	20.55	River Temp Sang Run @1200
T14	21.84	River Temp Sang Run @1400
T15	23.18	River Temp Sang Run @1500
Q	15.00	River Flow at Oakland

82
TSTRMS

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

RELEASE NOT REQ'D ABE



126

= CFS River Flow at Oakland

July 6, 2005

Print Info for file

Time	Oakland Flow CFS	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	>30 <=30	26.10 25.50	Check again at 0900 Check again at 0900
0900	> 30 <=30	26.29 25.69	Release at 1100 for 2 hours Check again at 1100
1100	All	-4.05	No further predictions necessary today
1200	All	2.08	No further predictions necessary today
1400	All	6.31	No further predictions necessary today
1500	All	4.39	No further predictions necessary today

Tair	26.67	Air Temp, Elkins WV - Degree C
CCF	36.00	Cloud Cover Factor, Elkins WV
T7	19.72	River Temp Sang Run @700
T9	19.90	River Temp Sang Run @900
T11	0.00	River Temp Sang Run @1100
T12	0.00	River Temp Sang Run @1200
T14	0.00	River Temp Sang Run @1400
T15	0.00	River Temp Sang Run @1500
Q	15.00	River Flow at Oakland

80
PTCLDY

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

✓

Print Info for file

Time	Oakland Flow CFS	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	>30	21.61	Temperature Plan not required today
	<=30	25.45	Temperature Plan not required today
0900	> 30	-3.89	Temperature Plan not required today
	<=30	-0.05	Temperature Plan not required today
1100	All	12.15	Temperature Plan not required today
1200	All	10.77	Temperature Plan not required today
1400	All	6.31	Temperature Plan not required today
1500	All	4.39	Temperature Plan not required today

Tair	26.67	Air Temp, Elkins WV - Degree C
CCF	64.00	Cloud Cover Factor, Elkins WV
T7	21.16	River Temp Sang Run @700
T9	0.00	River Temp Sang Run @900
T11	0.00	River Temp Sang Run @1100
T12	0.00	River Temp Sang Run @1200
T14	0.00	River Temp Sang Run @1400
T15	0.00	River Temp Sang Run @1500
Q	126.00	River Flow at Oakland

80
SHWRS

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

306

= CFS River Flow at Oakland

July 8, 2005

Print Info for file

Time	Oakland Flow CFS	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	>30 <=30	23.25 24.13	Check again at 0900 Check again at 0900
0900	> 30 <=30	-0.16 0.72	No further predictions necessary today No further predictions necessary today
1100	All	11.60	No further predictions necessary today
1200	All	10.30	No further predictions necessary today
1400	All	6.08	No further predictions necessary today
1500	All	4.28	No further predictions necessary today

Tair	24.44	Air Temp, Elkins WV - Degree C
CCF	64.00	Cloud Cover Factor, Elkins WV
T7	19.35	River Temp Sang Run @700
T9	0.00	River Temp Sang Run @900
T11	0.00	River Temp Sang Run @1100
T12	0.00	River Temp Sang Run @1200
T14	0.00	River Temp Sang Run @1400
T15	0.00	River Temp Sang Run @1500
Q	52.00	River Flow at Oakland

76
SHWRS

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

PER SCOTT

OAKland Flow over 100cfs No Need To
check again @ 0900

384

= CFS River Flow at Oakland

July 9, 2005

Time	Oakland Flow CFS	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	>30 <=30	6.58 17.62	Temperature Plan not required today Temperature Plan not required today
0900	> 30 <=30	28.84 39.88	Temperature Plan not required today Temperature Plan not required today
1100	All	-4.81	Temperature Plan not required today
1200	All	1.51	Temperature Plan not required today
1400	All	6.31	Temperature Plan not required today
1500	All	4.39	Temperature Plan not required today

Print info for file

Tair	26.67	Air Temp, Elkins WV - Degree C
CCF	100.00	Cloud Cover Factor, Elkins WV
T7	0.00	River Temp Sang Run @700
T9	20.04	River Temp Sang Run @900
T11	0.00	River Temp Sang Run @1100
T12	0.00	River Temp Sang Run @1200
T14	0.00	River Temp Sang Run @1400
T15	0.00	River Temp Sang Run @1500
Q	306.00	River Flow at Oakland

80
TSTRMS

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

7/9 Sang Run temp. phone
would not answer - Carol
has to fix it due to lightning
strike - call went through
at 10:15

temp. enhancement not req'd

225

= CFS River Flow at Oakland

July 10, 2005

Print Info for file

Time	Oakland Flow CFS	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	>30	#VALUE!	Temperature Plan not required today
	<=30	#VALUE!	Temperature Plan not required today
0900	> 30	#VALUE!	Temperature Plan not required today
	<=30	#VALUE!	Temperature Plan not required today
1100	All	-2.08	Temperature Plan not required today
1200	All	3.46	Temperature Plan not required today
1400	All	6.59	Temperature Plan not required today
1500	All	4.52	Temperature Plan not required today

Tair	29.44	Air Temp, Elkins WV - Degree C
CCF	1.00	Cloud Cover Factor, Elkins WV
T7	n/a	River Temp Sang Run @700
T9	18.77	River Temp Sang Run @900
T11	0.00	River Temp Sang Run @1100
T12	0.00	River Temp Sang Run @1200
T14	0.00	River Temp Sang Run @1400
T15	0.00	River Temp Sang Run @1500
Q	384.00	River Flow at Oakland

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

9-10-05
 @0700 Sang Run
 Phone wouldn't
 answer.
 Lee

Print Info for file

Time	Oakland Flow CFS	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	>30	18.57	Temperature Plan not required today
	<=30	26.37	Temperature Plan not required today
0900	> 30	-5.31	Temperature Plan not required today
	<=30	2.49	Temperature Plan not required today
1100	All	13.11	Temperature Plan not required today
1200	All	11.59	Temperature Plan not required today
1400	All	6.59	Temperature Plan not required today
1500	All	4.52	Temperature Plan not required today

Tair	29.44	Air Temp, Elkins WV - Degree C
CCF	36.00	Cloud Cover Factor, Elkins WV
T7	19.66	River Temp Sang Run @700
T9	0.00	River Temp Sang Run @900
T11	0.00	River Temp Sang Run @1100
T12	0.00	River Temp Sang Run @1200
T14	0.00	River Temp Sang Run @1400
T15	0.00	River Temp Sang Run @1500
Q	225.00	River Flow at Oakland

85
PTCLDY

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

Time	Oakland Flow CFS	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	>30	22.20	No further predictions necessary today
	<=30	24.08	No further predictions necessary today
0900	> 30	-1.11	No further predictions necessary today
	<=30	0.77	No further predictions necessary today
1100	All	11.79	No further predictions necessary today
1200	All	10.49	No further predictions necessary today
1400	All	6.31	No further predictions necessary today
1500	All	4.39	No further predictions necessary today

Print Info for file

Tair	26.67	Air Temp, Elkins WV - Degree C
CCF	100.00	Cloud Cover Factor, Elkins WV
T7	19.13	River Temp Sang Run @700
T9	0.00	River Temp Sang Run @900
T11	0.00	River Temp Sang Run @1100
T12	0.00	River Temp Sang Run @1200
T14	0.00	River Temp Sang Run @1400
T15	0.00	River Temp Sang Run @1500
Q	77.00	River Flow at Oakland

80
TSTRMSAir Temp, Elkins WV - Degree F
Cloud Cover, Elkins WV

172 = CFS River Flow at Oakland

July 13, 2005

Print Info for file

Time	Oakland Flow CFS	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	>30	22.14	Temperature Plan not required today
	<=30	24.66	Temperature Plan not required today
0900	> 30	-2.51	Temperature Plan not required today
	<=30	0.01	Temperature Plan not required today
1100	All	11.92	Temperature Plan not required today
1200	All	10.61	Temperature Plan not required today
1400	All	6.36	Temperature Plan not required today
1500	All	4.41	Temperature Plan not required today

Tair	27.22	Air Temp, Elkins WV - Degree C
CCF	100.00	Cloud Cover Factor, Elkins WV
T7	20.31	River Temp Sang Run @700
T9	0.00	River Temp Sang Run @900
T11	0.00	River Temp Sang Run @1100
T12	0.00	River Temp Sang Run @1200
T14	0.00	River Temp Sang Run @1400
T15	0.00	River Temp Sang Run @1500
Q	93.00	River Flow at Oakland

81
TSTRMS

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

Print Info for file

Time	Oakland Flow CFS	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	<30 <=30	18.98 24.66	Temperature Plan not required today Temperature Plan not required today
0900	> 30 <=30	-5.67 0.01	Temperature Plan not required today Temperature Plan not required today
1100	All	11.92	Temperature Plan not required today
1200	All	10.61	Temperature Plan not required today
1400	All	6.36	Temperature Plan not required today
1500	All	4.41	Temperature Plan not required today

Tair	27.22	Air Temp, Elkins WV - Degree C
CCF	100.00	Cloud Cover Factor, Elkins WV
T7	20.31	River Temp Sang Run @700
T9	0.00	River Temp Sang Run @900
T11	0.00	River Temp Sang Run @1100
T12	0.00	River Temp Sang Run @1200
T14	0.00	River Temp Sang Run @1400
T15	0.00	River Temp Sang Run @1500
Q	172.00	River Flow at Oakland

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

Time	Oakland Flow CFS	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	>30 <=30	-33.33 24.67	Temperature Plan not required today Temperature Plan not required today
0900	> 30 <=30	-57.44 0.56	Temperature Plan not required today Temperature Plan not required today
1100	All	12.06	Temperature Plan not required today
1200	All	10.72	Temperature Plan not required today
1400	All	6.42	Temperature Plan not required today
1500	All	4.44	Temperature Plan not required today

Print Info for file

Tair	27.78	Air Temp, Elkins WV - Degree C
CCF	100.00	Cloud Cover Factor, Elkins WV
T7	19.81	River Temp Sang Run @700
T9	0.00	River Temp Sang Run @900
T11	0.00	River Temp Sang Run @1100
T12	0.00	River Temp Sang Run @1200
T14	0.00	River Temp Sang Run @1400
T15	0.00	River Temp Sang Run @1500
Q	1480.00	River Flow at Oakland

82
TSTRMS

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

Print Info for file

Time	Oakland Flow CFS	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	>30	13.55	Temperature Plan not required today
	<=30	25.03	Temperature Plan not required today
0900	> 30	-11.76	Temperature Plan not required today
	<=30	-0.28	Temperature Plan not required today
1100	All	12.06	Temperature Plan not required today
1200	All	10.72	Temperature Plan not required today
1400	All	6.42	Temperature Plan not required today
1500	All	4.44	Temperature Plan not required today

Tair	27.78	Air Temp, Elkins WV - Degree C
CCF	100.00	Cloud Cover Factor, Elkins WV
T7	20.88	River Temp Sang Run @700
T9	0.00	River Temp Sang Run @900
T11	0.00	River Temp Sang Run @1100
T12	0.00	River Temp Sang Run @1200
T14	0.00	River Temp Sang Run @1400
T15	0.00	River Temp Sang Run @1500
Q	317.00	River Flow at Oakland

82
TSTRMS

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

Print Info for file

Time	Oakland Flow CFS	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	<30 <=30	0.19 25.03	Temperature Plan not required today Temperature Plan not required today
0900	> 30 <=30	-25.12 -0.28	Temperature Plan not required today Temperature Plan not required today
1100	All	12.06	Temperature Plan not required today
1200	All	10.72	Temperature Plan not required today
1400	All	6.42	Temperature Plan not required today
1500	All	4.44	Temperature Plan not required today

Tair	27.78	Air Temp, Elkins WV - Degree C
CCF	100.00	Cloud Cover Factor, Elkins WV
T7	20.88	River Temp Sang Run @700
T9	0.00	River Temp Sang Run @900
T11	0.00	River Temp Sang Run @1100
T12	0.00	River Temp Sang Run @1200
T14	0.00	River Temp Sang Run @1400
T15	0.00	River Temp Sang Run @1500
Q	651.00	River Flow at Oakland

82
TSTRMS

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

Print Info for file

Time	Oakland Flow CFS	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	<30	1.20	Temperature Plan not required today
	<=30	24.52	Temperature Plan not required today
0900	> 30	-23.55	Temperature Plan not required today
	<=30	-0.23	Temperature Plan not required today
1100	All	11.79	Temperature Plan not required today
1200	All	10.49	Temperature Plan not required today
1400	All	6.31	Temperature Plan not required today
1500	All	4.39	Temperature Plan not required today

Tair	26.67	Air Temp, Elkins WV - Degree C
CCF	100.00	Cloud Cover Factor, Elkins WV
T7	20.42	River Temp Sang Run @700
T9	0.00	River Temp Sang Run @900
T11	0.00	River Temp Sang Run @1100
T12	0.00	River Temp Sang Run @1200
T14	0.00	River Temp Sang Run @1400
T15	0.00	River Temp Sang Run @1500
Q	613.00	River Flow at Oakland

80
TSTRMS

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

Time	Oakland Flow CFS	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	>30	-11.51	Temperature Plan not required today
	<=30	24.61	Temperature Plan not required today
0900	> 30	-36.57	Temperature Plan not required today
	<=30	-0.45	Temperature Plan not required today
1100	All	11.79	Temperature Plan not required today
1200	All	10.49	Temperature Plan not required today
1400	All	6.31	Temperature Plan not required today
1500	All	4.39	Temperature Plan not required today

Print Info for file

Tair	26.67	Air Temp, Elkins WV - Degree C
CCF	100.00	Cloud Cover Factor, Elkins WV
T7	20.70	River Temp Sang Run @700
T9	0.00	River Temp Sang Run @900
T11	0.00	River Temp Sang Run @1100
T12	0.00	River Temp Sang Run @1200
T14	0.00	River Temp Sang Run @1400
T15	0.00	River Temp Sang Run @1500
Q	933.00	River Flow at Oakland

80
TSTRMS

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

948

= CFS River Flow at Oakland

July 20, 2005

Time	Oakland Flow CFS	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	>30	4.31	Temperature Plan not required today
	<=30	25.75	Temperature Plan not required today
0900	> 30	-19.80	Temperature Plan not required today
	<=30	1.64	Temperature Plan not required today
1100	All	12.56	Temperature Plan not required today
1200	All	11.12	Temperature Plan not required today
1400	All	6.36	Temperature Plan not required today
1500	All	4.41	Temperature Plan not required today

Print Info for file

Tair	27.22	Air Temp, Elkins WV - Degree C
CCF	36.00	Cloud Cover Factor, Elkins WV
T7	19.94	River Temp Sang Run @700
T9	0.00	River Temp Sang Run @900
T11	0.00	River Temp Sang Run @1100
T12	0.00	River Temp Sang Run @1200
T14	0.00	River Temp Sang Run @1400
T15	0.00	River Temp Sang Run @1500
Q	566.00	River Flow at Oakland

81
PTCLDY

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

Print Info for file

Time	Oakland Flow CFS	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	>30	-11.31	Temperature Plan not required today
	<=30	25.41	Temperature Plan not required today
0900	> 30	-35.58	Temperature Plan not required today
	<=30	1.14	Temperature Plan not required today
1100	All	12.61	Temperature Plan not required today
1200	All	11.20	Temperature Plan not required today
1400	All	6.65	Temperature Plan not required today
1500	All	4.55	Temperature Plan not required today

Tair	30.00	Air Temp, Elkins WV - Degree C
CCF	100.00	Cloud Cover Factor, Elkins WV
T7	19.87	River Temp Sang Run @700
T9	0.00	River Temp Sang Run @900
T11	0.00	River Temp Sang Run @1100
T12	0.00	River Temp Sang Run @1200
T14	0.00	River Temp Sang Run @1400
T15	0.00	River Temp Sang Run @1500
Q	948.00	River Flow at Oakland

86
TSTRMS

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

Print Info for file

Time	Oakland Flow CFS	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	>30	7.02	Temperature Plan not required today
	<=30	26.22	Temperature Plan not required today
0900	> 30	-18.23	Temperature Plan not required today
	<=30	0.97	Temperature Plan not required today
1100	All	13.02	Temperature Plan not required today
1200	All	11.56	Temperature Plan not required today
1400	All	6.82	Temperature Plan not required today
1500	All	4.63	Temperature Plan not required today

Tair	31.67	Air Temp, Elkins WV - Degree C
CCF	100.00	Cloud Cover Factor, Elkins WV
T7	20.70	River Temp Sang Run @700
T9	0.00	River Temp Sang Run @900
T11	0.00	River Temp Sang Run @1100
T12	0.00	River Temp Sang Run @1200
T14	0.00	River Temp Sang Run @1400
T15	0.00	River Temp Sang Run @1500
Q	510.00	River Flow at Oakland

89
TSTRMS

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

Print Info for file

Time	Oakland Flow CFS	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	<30 <=30	12.34 26.22	Temperature Plan not required today Temperature Plan not required today
0900	> 30 <=30	-12.91 0.97	Temperature Plan not required today Temperature Plan not required today
1100	All	13.02	Temperature Plan not required today
1200	All	11.56	Temperature Plan not required today
1400	All	6.82	Temperature Plan not required today
1500	All	4.63	Temperature Plan not required today

Tair	31.67	Air Temp, Elkins WV - Degree C
CCF	100.00	Cloud Cover Factor, Elkins WV
T7	20.70	River Temp Sang Run @700
T9	0.00	River Temp Sang Run @900
T11	0.00	River Temp Sang Run @1100
T12	0.00	River Temp Sang Run @1200
T14	0.00	River Temp Sang Run @1400
T15	0.00	River Temp Sang Run @1500
Q	377.00	River Flow at Oakland

89
TSTRMS

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

Print Info for file

Time	Oakland Flow CFS	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	>30	15.95	Temperature Plan not required today
	<=30	24.59	Temperature Plan not required today
0900	> 30	-7.90	Temperature Plan not required today
	<=30	0.74	Temperature Plan not required today
1100	All	12.06	Temperature Plan not required today
1200	All	10.72	Temperature Plan not required today
1400	All	6.42	Temperature Plan not required today
1500	All	4.44	Temperature Plan not required today

Tair	27.78	Air Temp, Elkins WV - Degree C
CCF	100.00	Cloud Cover Factor, Elkins WV
T7	19.58	River Temp Sang Run @700
T9	0.00	River Temp Sang Run @900
T11	0.00	River Temp Sang Run @1100
T12	0.00	River Temp Sang Run @1200
T14	0.00	River Temp Sang Run @1400
T15	0.00	River Temp Sang Run @1500
Q	246.00	River Flow at Oakland

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

Print Info for file

Time	Oakland Flow CFS	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	>30	20.67	Temperature Plan not required today
	<=30	26.47	Temperature Plan not required today
0900	> 30	-4.83	Temperature Plan not required today
	<=30	0.97	Temperature Plan not required today
1100	All	13.16	Temperature Plan not required today
1200	All	11.68	Temperature Plan not required today
1400	All	6.88	Temperature Plan not required today
1500	All	4.66	Temperature Plan not required today

Tair	32.22	Air Temp, Elkins WV - Degree C
CCF	100.00	Cloud Cover Factor, Elkins WV
T7	20.90	River Temp Sang Run @700
T9	0.00	River Temp Sang Run @900
T11	0.00	River Temp Sang Run @1100
T12	0.00	River Temp Sang Run @1200
T14	0.00	River Temp Sang Run @1400
T15	0.00	River Temp Sang Run @1500
Q	175.00	River Flow at Oakland

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

Print Info for file

Time	Oakland Flow CFS	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	>30	24.27	Temperature Plan not required today
	<=30	28.63	Temperature Plan not required today
0900	> 30	0.32	Temperature Plan not required today
	<=30	4.68	Temperature Plan not required today
1100	All	14.70	Temperature Plan not required today
1200	All	12.94	Temperature Plan not required today
1400	All	7.11	Temperature Plan not required today
1500	All	4.77	Temperature Plan not required today

Tair	34.44	Air Temp, Elkins WV - Degree C
CCF	1.00	Cloud Cover Factor, Elkins WV
T7	19.62	River Temp Sang Run @700
T9	0.00	River Temp Sang Run @900
T11	0.00	River Temp Sang Run @1100
T12	0.00	River Temp Sang Run @1200
T14	0.00	River Temp Sang Run @1400
T15	0.00	River Temp Sang Run @1500
Q	139.00	River Flow at Oakland

94
SUNNY

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

Print Info for file

Time	Oakland Flow CFS	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	>30 <=30	22.02 25.86	Temperature Plan not required today Temperature Plan not required today
0900	> 30 <=30	-4.32 -0.48	Temperature Plan not required today Temperature Plan not required today
1100	All	12.47	Temperature Plan not required today
1200	All	11.08	Temperature Plan not required today
1400	All	6.59	Temperature Plan not required today
1500	All	4.52	Temperature Plan not required today

Tair	29.44	Air Temp, Elkins WV - Degree C
CCF	100.00	Cloud Cover Factor, Elkins WV
T7	21.75	River Temp Sang Run @700
T9	0.00	River Temp Sang Run @900
T11	0.00	River Temp Sang Run @1100
T12	0.00	River Temp Sang Run @1200
T14	0.00	River Temp Sang Run @1400
T15	0.00	River Temp Sang Run @1500
Q	126.00	River Flow at Oakland

85
TSTRMS

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

Print Info for file

Time	Oakland Flow CFS	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	>30	21.00	Temperature Plan not required today
	<=30	24.04	Temperature Plan not required today
0900	> 30	-5.01	Temperature Plan not required today
	<=30	-1.97	Temperature Plan not required today
1100	All	11.10	Temperature Plan not required today
1200	All	9.89	Temperature Plan not required today
1400	All	6.02	Temperature Plan not required today
1500	All	4.25	Temperature Plan not required today

Tair	23.89	Air Temp, Elkins WV - Degree C
CCF	100.00	Cloud Cover Factor, Elkins WV
T7	21.64	River Temp Sang Run @700
T9	0.00	River Temp Sang Run @900
T11	0.00	River Temp Sang Run @1100
T12	0.00	River Temp Sang Run @1200
T14	0.00	River Temp Sang Run @1400
T15	0.00	River Temp Sang Run @1500
Q	106.00	River Flow at Oakland

75
TSTRMS

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

Time	Oakland Flow CFS	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	>30	21.39	No further predictions necessary today
	<=30	24.43	No further predictions necessary today
0900	> 30	-3.65	No further predictions necessary today
	<=30	-0.61	No further predictions necessary today
1100	All	11.65	No further predictions necessary today
1200	All	10.37	No further predictions necessary today
1400	All	6.25	No further predictions necessary today
1500	All	4.36	No further predictions necessary today

Print Info for file

Tair	26.11	Air Temp, Elkins WV - Degree C
CCF	100.00	Cloud Cover Factor, Elkins WV
T7	20.70	River Temp Sang Run @700
T9	0.00	River Temp Sang Run @900
T11	0.00	River Temp Sang Run @1100
T12	0.00	River Temp Sang Run @1200
T14	0.00	River Temp Sang Run @1400
T15	0.00	River Temp Sang Run @1500
Q	106.00	River Flow at Oakland

79
TSTRMS

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

75 = CFS River Flow at Oakland

July 30, 2005

Print Info for file

Time	Oakland Flow CFS	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	>30 <=30	24.32 26.28	Check again at 0900 Check again at 0900
0900	> 30 <=30	24.44 26.40	Check again at 1100 Release at 1100 for 2 hours
1100	All	26.47	Release at 1230 for 2 hours
1200	All	2.14	No further predictions necessary today
1400	All	6.48	No further predictions necessary today
1500	All	4.47	No further predictions necessary today

Tair	28.33	Air Temp, Elkins WV - Degree C
CCF	36.00	Cloud Cover Factor, Elkins WV
T7	20.45	River Temp Sang Run @700
T9	20.56	River Temp Sang Run @900
T11	22.01	River Temp Sang Run @1100
T12	0.00	River Temp Sang Run @1200
T14	0.00	River Temp Sang Run @1400
T15	0.00	River Temp Sang Run @1500
Q	79.00	River Flow at Oakland

83
MOCLDY

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

Time	Oakland Flow CFS	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	>30	23.80	Check again at 0900
	<=30	25.60	Check again at 0900
0900	> 30	23.81	Check again at 1100
	<=30	25.61	Check again at 1100
1100	All	26.61	Release at 1230 for 2 hours
1200	All	1.96	No further predictions necessary today
1400	All	6.65	No further predictions necessary today
1500	All	4.55	No further predictions necessary today

Print Info for file

Tair	30.00	Air Temp, Elkins WV - Degree C
CCF	100.00	Cloud Cover Factor, Elkins WV
T7	20.44	River Temp Sang Run @700
T9	20.62	River Temp Sang Run @900
T11	22.31	River Temp Sang Run @1100
T12	0.00	River Temp Sang Run @1200
T14	0.00	River Temp Sang Run @1400
T15	0.00	River Temp Sang Run @1500
Q	75.00	River Flow at Oakland

86
TSTRMS

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

Print Info for file

Time	Oakland Flow CFS	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	>30	25.84	Check again at 0900 Check again at 0900
	<=30	27.20	
0900	> 30	26.39	Release at 1100 for 2 hours Release at 1100 for 2 hours
	<=30	27.75	
1100	All	-3.92	No further predictions necessary today
1200	All	2.51	No further predictions necessary today
1400	All	6.76	No further predictions necessary today
1500	All	4.60	No further predictions necessary today

Tair	31.11	Air Temp, Elkins WV - Degree C
CCF	36.00	Cloud Cover Factor, Elkins WV
T7	20.51	River Temp Sang Run @700
T9	21.07	River Temp Sang Run @900
T11	0.00	River Temp Sang Run @1100
T12	0.00	River Temp Sang Run @1200
T14	0.00	River Temp Sang Run @1400
T15	0.00	River Temp Sang Run @1500
Q	64.00	River Flow at Oakland

88
MOCLDY

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

50 = CFS River Flow at Oakland

August 2, 2005

Time	Oakland Flow CFS	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	>30	24.00	Check again at 0900 Check again at 0900
	<=30	24.80	
0900	> 30	24.28	Check again at 1100 Check again at 1100
	<=30	25.08	
1100	All	25.94	Release at 1230 for 2 hours
1200	All	1.52	No further predictions necessary today
1400	All	6.42	No further predictions necessary today
1500	All	4.44	No further predictions necessary today

Print Info for file

Tair	27.78	Air Temp, Elkins WV - Degree C
CCF	100.00	Cloud Cover Factor, Elkins WV
T7	20.20	River Temp Sang Run @700
T9	20.55	River Temp Sang Run @900
T11	22.18	River Temp Sang Run @1100
T12	0.00	River Temp Sang Run @1200
T14	0.00	River Temp Sang Run @1400
T15	0.00	River Temp Sang Run @1500
Q	50.00	River Flow at Oakland

82
TSTRMS

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

43 = CFS River Flow at Oakland

August 3, 2005

Time	Oakland Flow CFS	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	>30	25.73	Check again at 0900 Check again at 0900
	<=30	26.25	
0900	> 30	25.55	Check again at 1100 Release at 1100 for 2 hours
	<=30	26.07	
1100	All	27.23	Release at 1230 for 2 hours
1200	All	1.90	
1400	All	6.76	No further predictions necessary today
1500	All	4.60	No further predictions necessary today

Print Info for file

Tair	31.11	Air Temp, Elkins WV - Degree C
CCF	100.00	Cloud Cover Factor, Elkins WV
T7	21.30	River Temp Sang Run @700
T9	21.30	River Temp Sang Run @900
T11	22.96	River Temp Sang Run @1100
T12	0.00	River Temp Sang Run @1200
T14	0.00	River Temp Sang Run @1400
T15	0.00	River Temp Sang Run @1500
Q	43.00	River Flow at Oakland

88
TSTRMS

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

Print Info for file

Time	Oakland Flow CFS	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	>30 <=30	26.56 27.08	Release at 1100 for 2 hours Release at 1100 for 2 hours
0900	> 30 <=30	0.17 0.69	No further predictions necessary today No further predictions necessary today
1100	All	13.43	No further predictions necessary today
1200	All	11.91	No further predictions necessary today
1400	All	6.99	No further predictions necessary today
1500	All	4.71	No further predictions necessary today

Tair	33.33	Air Temp, Elkins WV - Degree C
CCF	100.00	Cloud Cover Factor, Elkins WV
T7	21.66	River Temp Sang Run @700
T9	0.00	River Temp Sang Run @900
T11	0.00	River Temp Sang Run @1100
T12	0.00	River Temp Sang Run @1200
T14	0.00	River Temp Sang Run @1400
T15	0.00	River Temp Sang Run @1500
Q	43.00	River Flow at Oakland

92
TSTRMSAir Temp, Elkins WV - Degree F
Cloud Cover, Elkins WV

Whitewater
Release
TODAY 10-1

Print Info for file

Time	Oakland Flow CFS	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	>30	25.26	Check again at 0900
	<=30	25.62	Check again at 0900
0900	> 30	25.73	Check again at 1100
	<=30	26.09	Release at 1100 for 2 hours
1100	All	27.20	Release at 1230 for 2 hours
1200	All	1.44	No further predictions necessary today
1400	All	6.59	No further predictions necessary today
1500	All	4.52	No further predictions necessary today

Tair	29.44	Air Temp, Elkins WV - Degree C
CCF	100.00	Cloud Cover Factor, Elkins WV
T7	21.03	River Temp Sang Run @700
T9	21.53	River Temp Sang Run @900
T11	23.37	River Temp Sang Run @1100
T12	0.00	River Temp Sang Run @1200
T14	0.00	River Temp Sang Run @1400
T15	0.00	River Temp Sang Run @1500
Q	39.00	River Flow at Oakland

85
TSTRMS

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

Whitewater
Release
Today 10-1

Time	Oakland Flow CFS	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	>30	24.94	Check again at 0900
	<=30	25.14	Check again at 0900
0900	> 30	25.20	Check again at 1100
	<=30	25.40	Check again at 1100
1100	All	25.61	Release at 1230 for 2 hours
1200	All	1.11	No further predictions necessary today
1400	All	6.42	No further predictions necessary today
1500	All	4.44	No further predictions necessary today

Print Info for file

Tair	27.78	Air Temp, Elkins WV - Degree C
CCF	100.00	Cloud Cover Factor, Elkins WV
T7	21.21	River Temp Sang Run @700
T9	21.47	River Temp Sang Run @900
T11	22.49	River Temp Sang Run @1100
T12	0.00	River Temp Sang Run @1200
T14	0.00	River Temp Sang Run @1400
T15	0.00	River Temp Sang Run @1500
Q	35.00	River Flow at Oakland

82
TSTRMS

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

* Scheduled white water Release 1000-1300

30

= CFS River Flow at Oakland

August 7, 2005

Time	Oakland Flow CFS	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	>30	25.49	Check again at 0900
	<=30	25.57	Check again at 0900
0900	> 30	25.62	Check again at 1100
	<=30	25.70	Check again at 1100
1100	All	26.32	Release at 1230 for 2 hours
1200	All	1.95	No further predictions necessary today
1400	All	6.65	No further predictions necessary today
1500	All	4.55	No further predictions necessary today

Print Info for file

Tair	30.00	Air Temp, Elkins WV - Degree C
CCF	100.00	Cloud Cover Factor, Elkins WV
T7	20.35	River Temp Sang Run @700
T9	20.64	River Temp Sang Run @900
T11	22.11	River Temp Sang Run @1100
T12	0.00	River Temp Sang Run @1200
T14	0.00	River Temp Sang Run @1400
T15	0.00	River Temp Sang Run @1500
Q	32.00	River Flow at Oakland

86
TSTRMSAir Temp, Elkins WV - Degree F
Cloud Cover, Elkins WV

66

= CFS River Flow at Oakland

August 8, 2005

Time	Oakland Flow CFS	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	>30	24.66	Check again at 0900
	<=30	24.66	Check again at 0900
0900	> 30	24.65	Check again at 1100
	<=30	24.65	Check again at 1100
1100	All	24.52	Check again at 1200
1200	All	24.73	Check again at 1400
1400	All	17.54	No further predictions necessary today
1500	All	-2.44	No further predictions necessary today

Print Info for file

Tair	27.22	Air Temp, Elkins WV - Degree C
CCF	100.00	Cloud Cover Factor, Elkins WV
T7	20.31	River Temp Sang Run @700
T9	20.40	River Temp Sang Run @900
T11	21.17	River Temp Sang Run @1100
T12	21.97	River Temp Sang Run @1200
T14	17.96	River Temp Sang Run @1400
T15	0.00	River Temp Sang Run @1500
Q	30.00	River Flow at Oakland

81
TSTRMSAir Temp, Elkins WV - Degree F
Cloud Cover, Elkins WV

75

= CFS River Flow at Oakland

August 9, 2005

Time	Oakland Flow CFS	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	>30 <=30	23.71 25.15	Check again at 0900 Check again at 0900
0900	> 30 <=30	23.74 25.18	Check again at 1100 Check again at 1100
1100	All	25.64	Release at 1230 for 2 hours
1200	All	1.19	No further predictions necessary today
1400	All	6.42	No further predictions necessary today
1500	All	4.44	No further predictions necessary today

Print Info for file

Tair	27.78	Air Temp, Elkins WV - Degree C
CCF	100.00	Cloud Cover Factor, Elkins WV
T7	21.22	River Temp Sang Run @700
T9	21.29	River Temp Sang Run @900
T11	22.40	River Temp Sang Run @1100
T12	0.00	River Temp Sang Run @1200
T14	0.00	River Temp Sang Run @1400
T15	0.00	River Temp Sang Run @1500
Q	66.00	River Flow at Oakland

82
TSTRMSAir Temp, Elkins WV - Degree F
Cloud Cover, Elkins WV

Time	Oakland Flow CFS	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	>30	23.62	Check again at 0900
	<=30	25.42	Check again at 0900
0900	> 30	23.46	Check again at 1100
	<=30	25.26	Check again at 1100
1100	All	26.12	Release at 1230 for 2 hours
1200	All	1.92	No further predictions necessary today
1400	All	6.59	No further predictions necessary today
1500	All	4.52	No further predictions necessary today

Print Info for file

Tair	29.44	Air Temp, Elkins WV - Degree C
CCF	100.00	Cloud Cover Factor, Elkins WV
T7	20.44	River Temp Sang Run @700
T9	20.46	River Temp Sang Run @900
T11	21.96	River Temp Sang Run @1100
T12	0.00	River Temp Sang Run @1200
T14	0.00	River Temp Sang Run @1400
T15	0.00	River Temp Sang Run @1500
Q	75.00	River Flow at Oakland

85
TSTRMS

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



Print Info for file

Time	Oakland Flow CFS	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	>30	24.38	Check again at 0900
	<=30	25.34	Check again at 0900
0900	> 30	24.31	Check again at 1100
	<=30	25.27	Check again at 1100
1100	All	26.35	Release at 1230 for 2 hours
1200	All	1.98	No further predictions necessary today
1400	All	6.59	No further predictions necessary today
1500	All	4.52	No further predictions necessary today

Tair	29.44	Air Temp, Elkins WV - Degree C
CCF	100.00	Cloud Cover Factor, Elkins WV
T7	20.20	River Temp Sang Run @700
T9	20.32	River Temp Sang Run @900
T11	22.04	River Temp Sang Run @1100
T12	0.00	River Temp Sang Run @1200
T14	0.00	River Temp Sang Run @1400
T15	0.00	River Temp Sang Run @1500
Q	54.00	River Flow at Oakland

85
TSTRMSAir Temp, Elkins WV - Degree F
Cloud Cover, Elkins WV

Print Info for file

Time	Oakland Flow CFS	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	>30	25.20	Check again at 0900
	<=30	25.56	Check again at 0900
0900	> 30	25.09	Check again at 1100
	<=30	25.45	Check again at 1100
1100	All	26.21	Release at 1230 for 2 hours
1200	All	2.05	No further predictions necessary today
1400	All	6.65	No further predictions necessary today
1500	All	4.55	No further predictions necessary today

Tair	30.00	Air Temp, Elkins WV - Degree C
CCF	100.00	Cloud Cover Factor, Elkins WV
T7	20.33	River Temp Sang Run @700
T9	20.42	River Temp Sang Run @900
T11	21.90	River Temp Sang Run @1100
T12	0.00	River Temp Sang Run @1200
T14	0.00	River Temp Sang Run @1400
T15	0.00	River Temp Sang Run @1500
Q	39.00	River Flow at Oakland

86
TSTRMS

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

E/B
8/12/05

Print Info for file

Time	Oakland Flow CFS	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	>30	25.90	Check again at 0900
	<=30	25.98	Check again at 0900
0900	> 30	25.97	Release at 1100 for 2 hours
	<=30	26.05	Release at 1100 for 2 hours
1100	All	-4.31	No further predictions necessary today
1200	All	2.13	No further predictions necessary today
1400	All	6.76	No further predictions necessary today
1500	All	4.60	No further predictions necessary today

Tair	31.11	Air Temp, Elkins WV - Degree C
CCF	100.00	Cloud Cover Factor, Elkins WV
T7	20.51	River Temp Sang Run @700
T9	20.77	River Temp Sang Run @900
T11	0.00	River Temp Sang Run @1100
T12	0.00	River Temp Sang Run @1200
T14	0.00	River Temp Sang Run @1400
T15	0.00	River Temp Sang Run @1500
Q	32.00	River Flow at Oakland

88
TSTRMSAir Temp, Elkins WV - Degree F
Cloud Cover, Elkins WV

SKD white water Release 10-13
 Scott J. Curtis 8.13.05

Print Info for file

Time	Oakland Flow CFS	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	>30	25.41	Check again at 0900
	<=30	25.37	Check again at 0900
0900	> 30	25.40	Check again at 1100
	<=30	25.36	Check again at 1100
1100	All	24.91	Check again at 1200
1200	All	25.19	Check again at 1400
1400	All	23.39	Check again at 1500
1500	All	27.42	Release ASAP - not later than 1530 for 1 hour

Tair	28.89	Air Temp, Elkins WV - Degree C
CCF	100.00	Cloud Cover Factor, Elkins WV
T7	20.83	River Temp Sang Run @700
T9	20.93	River Temp Sang Run @900
T11	21.47	River Temp Sang Run @1100
T12	22.29	River Temp Sang Run @1200
T14	22.29	River Temp Sang Run @1400
T15	26.21	River Temp Sang Run @1500
Q	29.00	River Flow at Oakland

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

Acott & Curtis 08.14.05

Print Info for file

Time	Oakland Flow CFS	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	>30	25.02	Check again at 0900
	<=30	24.82	Check again at 0900
0900	> 30	25.07	Check again at 1100
	<=30	24.87	Check again at 1100
1100	All	24.70	Check again at 1200
1200	All	24.37	Check again at 1400
1400	All	17.78	No further predictions necessary today
1500	All	-2.40	No further predictions necessary today

Tair	27.22	Air Temp, Elkins WV - Degree C
CCF	100.00	Cloud Cover Factor, Elkins WV
T7	20.78	River Temp Sang Run @700
T9	20.88	River Temp Sang Run @900
T11	21.58	River Temp Sang Run @1100
T12	21.83	River Temp Sang Run @1200
T14	18.08	River Temp Sang Run @1400
T15	0.00	River Temp Sang Run @1500
Q	25.00	River Flow at Oakland

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

*WNR today
Scott & Curtis 8.15.05*

Print Info for file

Time	Oakland Flow CFS	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	>30	24.63	Check again at 0900
	<=30	24.31	Check again at 0900
0900	> 30	24.49	Check again at 1100
	<=30	24.17	Check again at 1100
1100	All	23.75	Check again at 1200
1200	All	23.67	Check again at 1400
1400	All	23.41	Check again at 1500
1500	All	23.11	No further predictions necessary today

Tair	25.56	Air Temp, Elkins WV - Degree C
CCF	100.00	Cloud Cover Factor, Elkins WV
T7	20.86	River Temp Sang Run @700
T9	20.75	River Temp Sang Run @900
T11	21.12	River Temp Sang Run @1100
T12	21.45	River Temp Sang Run @1200
T14	22.19	River Temp Sang Run @1400
T15	22.34	River Temp Sang Run @1500
Q	22.00	River Flow at Oakland

78
TSTRMS

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

Scott J. Curtis 8.16.05

Print Info for file

Time	Oakland Flow CFS	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	>30	26.14	Check again at 0900
	<=30	25.82	Check again at 0900
0900	> 30	26.07	Release at 1100 for 2 hours
	<=30	25.75	Check again at 1100
1100	All	26.22	Release at 1230 for 2 hours
1200	All	2.45	No further predictions necessary today
1400	All	6.42	No further predictions necessary today
1500	All	4.44	No further predictions necessary today

Tair	27.78	Air Temp, Elkins WV - Degree C
CCF	36.00	Cloud Cover Factor, Elkins WV
T7	19.61	River Temp Sang Run @700
T9	19.61	River Temp Sang Run @900
T11	21.36	River Temp Sang Run @1100
T12	0.00	River Temp Sang Run @1200
T14	0.00	River Temp Sang Run @1400
T15	0.00	River Temp Sang Run @1500
Q	22.00	River Flow at Oakland

82
PTCLDY

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

* Release From 1200 - 1500 Per Mr. Cole Coleman

SAR
8/17/05

22

= CFS River Flow at Oakland

August 18, 2005

Time	Oakland Flow CFS	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	>30	24.62	Check again at 0900
	<=30	24.30	Check again at 0900
0900	> 30	24.26	Check again at 1100
	<=30	23.94	Check again at 1100
1100	All	25.14	Check again at 1200
1200	All	25.14	Check again at 1400
1400	All	25.22	Release ASAP - not later than 1430 for 1 hour
1500	All	-2.02	No further predictions necessary today

Print Info for file

Tair	28.89	Air Temp, Elkins WV - Degree C
CCF	100.00	Cloud Cover Factor, Elkins WV
T7	17.66	River Temp Sang Run @700
T9	17.71	River Temp Sang Run @900
T11	19.72	River Temp Sang Run @1100
T12	20.88	River Temp Sang Run @1200
T14	23.02	River Temp Sang Run @1400
T15	0.00	River Temp Sang Run @1500
Q	22.00	River Flow at Oakland

84
TSTRMSAir Temp, Elkins WV - Degree F
Cloud Cover, Elkins WV

De 8/18/05

Print Info for file

Time	Oakland Flow CFS	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	>30	25.21	Check again at 0900
	<=30	24.89	Check again at 0900
0900	> 30	25.18	Check again at 1100
	<=30	24.86	Check again at 1100
1100	All	24.13	Check again at 1200
1200	All	24.04	Check again at 1400
1400	All	19.63	No further predictions necessary today
1500	All	-1.94	No further predictions necessary today

Tair	28.89	Air Temp, Elkins WV - Degree C
CCF	100.00	Cloud Cover Factor, Elkins WV
T7	19.40	River Temp Sang Run @700
T9	19.59	River Temp Sang Run @900
T11	20.11	River Temp Sang Run @1100
T12	20.64	River Temp Sang Run @1200
T14	18.79	River Temp Sang Run @1400
T15	0.00	River Temp Sang Run @1500
Q	22.00	River Flow at Oakland

84
TSTRMS

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

A handwritten signature and the date '8/19/05' are written in the bottom right corner of the page.

Time	Oakland Flow CFS	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	>30	25.61	Check again at 0900
	<=30	25.21	Check again at 0900
0900	> 30	25.37	Check again at 1100
	<=30	24.97	Check again at 1100
1100	All	25.47	Release at 1230 for 2 hours
1200	All	2.20	No further predictions necessary today
1400	All	6.59	No further predictions necessary today
1500	All	4.52	No further predictions necessary today

Print Info for file

Tair	29.44	Air Temp, Elkins WV - Degree C
CCF	100.00	Cloud Cover Factor, Elkins WV
T7	19.83	River Temp Sang Run @700
T9	19.83	River Temp Sang Run @900
T11	21.12	River Temp Sang Run @1100
T12	0.00	River Temp Sang Run @1200
T14	0.00	River Temp Sang Run @1400
T15	0.00	River Temp Sang Run @1500
Q	20.00	River Flow at Oakland

85
TSTRMSAir Temp, Elkins WV - Degree F
Cloud Cover, Elkins WV

Handwritten signature
8/20/05

Print info for file

Time	Oakland Flow CFS	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	>30	26.67	Temperature Plan not required today
	<=30	26.35	Temperature Plan not required today
0900	> 30	1.62	Temperature Plan not required today
	<=30	1.30	Temperature Plan not required today
1100	All	12.97	Temperature Plan not required today
1200	All	11.49	Temperature Plan not required today
1400	All	6.65	Temperature Plan not required today
1500	All	4.55	Temperature Plan not required today

Tair	30.00	Air Temp, Elkins WV - Degree C
CCF	64.00	Cloud Cover Factor, Elkins WV
T7	20.64	River Temp Sang Run @700
T9	0.00	River Temp Sang Run @900
T11	0.00	River Temp Sang Run @1100
T12	0.00	River Temp Sang Run @1200
T14	0.00	River Temp Sang Run @1400
T15	0.00	River Temp Sang Run @1500
Q	22.00	River Flow at Oakland

86
SHWRS

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

Handwritten signature and date: 8/21/05

AUG 22 2005

118 = CFS River Flow at Oakland

August 22, 2005

Time	Oakland Flow CFS	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	>30	20.66	Temperature Plan not required today
	<=30	24.86	Temperature Plan not required today
0900	> 30	-3.92	Temperature Plan not required today
	<=30	0.28	Temperature Plan not required today
1100	All	11.74	Temperature Plan not required today
1200	All	10.40	Temperature Plan not required today
1400	All	6.02	Temperature Plan not required today
1500	All	4.25	Temperature Plan not required today

Print Info for file

Tair	23.89	Air Temp, Elkins WV - Degree C
CCF	36.00	Cloud Cover Factor, Elkins WV
T7	20.47	River Temp Sang Run @700
T9	0.00	River Temp Sang Run @900
T11	0.00	River Temp Sang Run @1100
T12	0.00	River Temp Sang Run @1200
T14	0.00	River Temp Sang Run @1400
T15	0.00	River Temp Sang Run @1500
Q	135.00	River Flow at Oakland

75
PTCLDY

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

Scott J. Curtis
08.22.05

58

= CFS River Flow at Oakland

August 23, 2005

Time	Oakland Flow CFS	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	>30	21.01	No further predictions necessary today
	<=30	24.53	No further predictions necessary today
0900	> 30	-1.33	No further predictions necessary today
	<=30	2.19	No further predictions necessary today
1100	All	12.02	No further predictions necessary today
1200	All	10.64	No further predictions necessary today
1400	All	6.14	No further predictions necessary today
1500	All	4.31	No further predictions necessary today

Print Info for file

Tair	25.00	Air Temp, Elkins WV - Degree C
CCF	36.00	Cloud Cover Factor, Elkins WV
T7	18.43	River Temp Sang Run @700
T9	0.00	River Temp Sang Run @900
T11	0.00	River Temp Sang Run @1100
T12	0.00	River Temp Sang Run @1200
T14	0.00	River Temp Sang Run @1400
T15	0.00	River Temp Sang Run @1500
Q	118.00	River Flow at Oakland

77
PTCLDYAir Temp, Elkins WV - Degree F
Cloud Cover, Elkins WV

Scott J. Curtis 8.23.05

36

= CFS River Flow at Oakland

August 24, 2005

Time	Oakland Flow CFS	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	>30	23.94	Check again at 0900
	<=30	25.06	Check again at 0900
0900	> 30	23.88	Check again at 1100
	<=30	25.00	Check again at 1100
1100	All	25.14	Check again at 1200
1200	All	24.83	Check again at 1400
1400	All	24.86	Check again at 1500
1500	All	25.45	Release ASAP - not later than 1530 for 1 hour

Print Info for file

Tair	27.22	Air Temp, Elkins WV - Degree C
CCF	36.00	Cloud Cover Factor, Elkins WV
T7	17.90	River Temp Sang Run @700
T9	18.02	River Temp Sang Run @900
T11	19.74	River Temp Sang Run @1100
T12	20.57	River Temp Sang Run @1200
T14	22.74	River Temp Sang Run @1400
T15	24.08	River Temp Sang Run @1500
Q	58.00	River Flow at Oakland

81
PTCLDYAir Temp, Elkins WV - Degree F
Cloud Cover, Elkins WV

Scott J. Curtis 8.24.05

30

= CFS River Flow at Oakland

August 25, 2005

Time	Oakland Flow CFS	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	>30	25.88	Check again at 0900
	<=30	26.12	Check again at 0900
0900	> 30	25.71	Check again at 1100
	<=30	25.95	Release at 1100 for 2 hours
1100	All	-0.67	No further predictions necessary today
1200	All	4.23	No further predictions necessary today
1400	All	6.59	No further predictions necessary today
1500	All	4.52	No further predictions necessary today

Print Info for file

Tair	29.44	Air Temp, Elkins WV - Degree C
CCF	1.00	Cloud Cover Factor, Elkins WV
T7	16.96	River Temp Sang Run @700
T9	17.07	River Temp Sang Run @900
T11	0.00	River Temp Sang Run @1100
T12	0.00	River Temp Sang Run @1200
T14	0.00	River Temp Sang Run @1400
T15	0.00	River Temp Sang Run @1500
Q	36.00	River Flow at Oakland

85
SUNNYAir Temp, Elkins WV - Degree F
Cloud Cover, Elkins WV

Scott J. Curtis 8.25.05

Print Info for file

Time	Oakland Flow CFS	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	>30	24.20	Check again at 0900
	<=30	24.04	Check again at 0900
0900	> 30	23.77	Check again at 1100
	<=30	23.61	Check again at 1100
1100	All	22.57	No further predictions necessary today
1200	All	2.71	No further predictions necessary today
1400	All	6.42	No further predictions necessary today
1500	All	4.44	No further predictions necessary today

Tair	27.78	Air Temp, Elkins WV - Degree C
CCF	100.00	Cloud Cover Factor, Elkins WV
T7	17.96	River Temp Sang Run @700
T9	17.89	River Temp Sang Run @900
T11	18.18	River Temp Sang Run @1100
T12	0.00	River Temp Sang Run @1200
T14	0.00	River Temp Sang Run @1400
T15	0.00	River Temp Sang Run @1500
Q	26.00	River Flow at Oakland

82
TSTRMS

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

Handwritten signature and date: 8/26/05

Time	Oakland Flow CFS	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	>30	23.29	Check again at 0900
	<=30	23.25	Check again at 0900
0900	> 30	22.96	No further predictions necessary today
	<=30	22.92	No further predictions necessary today
1100	All	-3.65	No further predictions necessary today
1200	All	2.00	No further predictions necessary today
1400	All	6.14	No further predictions necessary today
1500	All	4.31	No further predictions necessary today

Print Info for file

Tair	25.00	Air Temp, Elkins WV - Degree C
CCF	100.00	Cloud Cover Factor, Elkins WV
T7	18.24	River Temp Sang Run @700
T9	18.15	River Temp Sang Run @900
T11	0.00	River Temp Sang Run @1100
T12	0.00	River Temp Sang Run @1200
T14	0.00	River Temp Sang Run @1400
T15	0.00	River Temp Sang Run @1500
Q	29.00	River Flow at Oakland

77
TSTRMS

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

Two handwritten signatures in black ink, one on the left and one on the right, positioned below the parameter table.

151 = CFS River Flow at Oakland

August 28, 2005

Time	Oakland Flow CFS	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	>30	21.40	Temperature Plan not required today
	<=30	26.24	Temperature Plan not required today
0900	> 30	-1.48	Temperature Plan not required today
	<=30	3.36	Temperature Plan not required today
1100	All	13.25	Temperature Plan not required today
1200	All	11.71	Temperature Plan not required today
1400	All	6.65	Temperature Plan not required today
1500	All	4.55	Temperature Plan not required today

Print Info for file

Tair	30.00	Air Temp, Elkins WV - Degree C
CCF	36.00	Cloud Cover Factor, Elkins WV
T7	18.75	River Temp Sang Run @700
T9	0.00	River Temp Sang Run @900
T11	0.00	River Temp Sang Run @1100
T12	0.00	River Temp Sang Run @1200
T14	0.00	River Temp Sang Run @1400
T15	0.00	River Temp Sang Run @1500
Q	151.00	River Flow at Oakland

86
PTCLDY

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

[Handwritten signature] 8/28/05

Print Info for file

Time	Oakland Flow CFS	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	>30	21.96	No further predictions necessary today
	<=30	24.56	No further predictions necessary today
0900	> 30	-1.79	No further predictions necessary today
	<=30	0.81	No further predictions necessary today
1100	All	12.06	No further predictions necessary today
1200	All	10.72	No further predictions necessary today
1400	All	6.42	No further predictions necessary today
1500	All	4.44	No further predictions necessary today

Tair	27.78	Air Temp, Elkins WV - Degree C
CCF	100.00	Cloud Cover Factor, Elkins WV
T7	19.48	River Temp Sang Run @700
T9	0.00	River Temp Sang Run @900
T11	0.00	River Temp Sang Run @1100
T12	0.00	River Temp Sang Run @1200
T14	0.00	River Temp Sang Run @1400
T15	0.00	River Temp Sang Run @1500
Q	95.00	River Flow at Oakland

82
TSTRMS

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

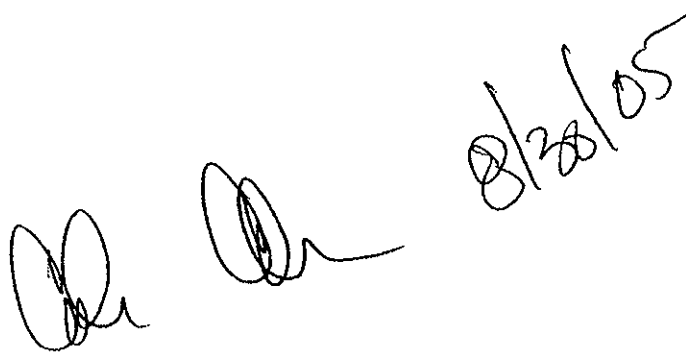
[Handwritten signature] 8/29/05

Time	Oakland Flow CFS	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	>30	22.99	No further predictions necessary today
	<=30	24.19	No further predictions necessary today
0900	> 30	-0.67	No further predictions necessary today
	<=30	0.53	No further predictions necessary today
1100	All	11.79	No further predictions necessary today
1200	All	10.49	No further predictions necessary today
1400	All	6.31	No further predictions necessary today
1500	All	4.39	No further predictions necessary today

Print Info for file

Tair	26.67	Air Temp, Elkins WV - Degree C
CCF	100.00	Cloud Cover Factor, Elkins WV
T7	19.44	River Temp Sang Run @700
T9	0.00	River Temp Sang Run @900
T11	0.00	River Temp Sang Run @1100
T12	0.00	River Temp Sang Run @1200
T14	0.00	River Temp Sang Run @1400
T15	0.00	River Temp Sang Run @1500
Q	60.00	River Flow at Oakland

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

 8/28/05

Time	Oakland Flow CFS	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	>30	22.51	No further predictions necessary today
	<=30	23.47	No further predictions necessary today
0900	> 30	-1.59	No further predictions necessary today
	<=30	-0.63	No further predictions necessary today
1100	All	10.91	No further predictions necessary today
1200	All	9.70	No further predictions necessary today
1400	All	5.79	No further predictions necessary today
1500	All	4.14	No further predictions necessary today

Print Info for file

Tair	21.67	Air Temp, Elkins WV - Degree C
CCF	64.00	Cloud Cover Factor, Elkins WV
T7	20.07	River Temp Sang Run @700
T9	0.00	River Temp Sang Run @900
T11	0.00	River Temp Sang Run @1100
T12	0.00	River Temp Sang Run @1200
T14	0.00	River Temp Sang Run @1400
T15	0.00	River Temp Sang Run @1500
Q	54.00	River Flow at Oakland

71
SHWRSAir Temp, Elkins WV - Degree F
Cloud Cover, Elkins WV

Scott J. Curtis 08.31.05

APPENDIX C

FLOW BYPASS OPERATION RECORD

Youghiogheny River Bypass Flow Provision				
MONTH	DAY	Flow at Oakland	Bypass Flow Required	% Valve Open
June	27	24	3	23
June	28	21	8	30
June	29	21	8	30
June	30	24	3	23
July	1	22	6	27
July	2	19	11	35
July	3	17	14	39
July	4	15	17	42
July	5	15	17	42
September	10	18	3	23
September	11	17	5	26
September	12	16	6	27
September	13	15	8	30
September	14	15	8	30
September	15	15	8	30
September	16	16	6	27
September	17	13	11	35
September	18	13	11	35
September	19	12	12	36
September	20	12	12	36
September	21	11	14	39
September	22	11	14	39
September	23	11	14	39
September	24	10	15	40
September	25	10	15	40
September	26	10	15	40
September	27	14	9	32
September	29	16	6	27
September	30	19	2	22
October	2	15	8	30
October	3	12	12	36
October	4	12	12	36
October	5	12	12	36
October	6	11	14	39
October	7	11	14	39
October	18	19	2	22
October	19	19	2	22
October	20	17	5	26
October	21	17	5	26

USGS PROVISIONAL WATER DATA FOR THE OAKLAND GAGE

GAGE NO. 03075500

FROM JANUARY 1, 2005 THROUGH DECEMBER 31, 2005

USGS - Oakland Gage No. 03075500

Discharge, cubic feet per second (Mean)

Month Day of Month	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	122	91	213	683	452	145	30	55	85	21	217	1010
2	160	92	161	882	339	126	26	50	57	17	250	665
3	177	93	140	846	308	157	23	45	43	16	188	421
4	866	93	120	834	252	162	22	41	36	15	152	793
5	1970	98	127	820	211	122	30	36	32	14	128	827
6	2550	101	163	614	183	108	99	35	29	13	111	559
7	1460	137	404	459	165	365	51	45	27	39	96	382
8	1390	379	1990	413	150	172	851	76	25	96	88	280
9	1110	1170	1060	311	129	148	368	68	23	69	214	266
10	807	2000	694	251	117	134	174	50	21	37	326	307
11	758	1040	514	211	109	123	111	40	20	130	237	185
12	1780	689	409	180	169	168	111	34	19	85	184	169
13	1060	484	326	158	129	108	578	31	18	48	153	141
14	1180	941	268	147	107	98	784	27	18	35	138	124
15	873	1280	235	136	183	86	283	27	18	28	147	122
16	663	939	223	125	132	80	446	27	17	23	592	125
17	510	753	211	112	112	116	863	27	16	21	770	108
18	391	540	237	102	99	77	703	25	15	22	400	95
19	330	420	359	93	91	61	912	25	15	19	274	86
20	270	344	516	79	930	56	743	40	14	18	218	74
21	220	673	466	74	748	52	446	273	13	69	181	82
22	180	576	397	112	458	54	303	84	13	238	163	75
23	165	437	1070	526	376	58	210	49	13	262	154	71
24	150	377	1410	319	630	46	154	38	12	232	153	73
25	135	333	996	468	455	38	127	33	13	347	138	102
26	120	279	790	711	369	35	120	29	14	610	116	864
27	115	242	650	629	291	32	99	77	18	701	133	660
28	110	229	1290	480	260	30	98	137	20	447	380	450
29	105		3310	309	267	33	86	74	21	373	1290	807
30	97		1520	348	200	32	70	62	24	318	2420	804
31	90		948		171		60	57		263		643

The data you have obtained from this 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

RECORD OF
DISSOLVED OXYGEN MONITORING

**DEEP CREEK STATION
DISSOLVED OXYGEN MONITORING LOG**

DATE	INSTRUMENT CALIBRATION CAL. READINGS			DO MEASUREMENTS DOWNSTREAM FROM WEIR			SLUICE GATE POSITION	COMMENTS
	TIME	TEMP. (deg C)	DO (mg/l)	TIME	TEMP (deg C)	DO (mg/l)		
6/3/05	10:00	24.9	7.34	10:30	14.1	9.55	OPEN	Scheduled
6/4/05	10:00	24.2	7.27	10:30	14.6	11.05	OPEN	Scheduled
6/6/05	10:00	25.8	6.56	10:30	13.9	8.87	OPEN	Scheduled
6/10/05	10:00	25.2	6.98	10:30	14.0	11.26	OPEN	Scheduled
6/13/05	10:00	22.1	8.09	10:30	14.0	10.56	OPEN	Scheduled
6/14/05	12:00	26.7	6.25	12:30	14.1	9.76	OPEN	Scheduled
6/17/05	10:10	24.3	7.01	10:40	14.2	10.25	OPEN	Scheduled
6/20/05	10:25	20.6	7.88	10:50	15.4	9.27	OPEN	Scheduled
6/24/05	10:30	22.7	7.72	11:00	14.6	8.81	OPEN	Scheduled
6/27/05	10:30	24.9	7.37	10:55	14.4	8.71	OPEN	Scheduled
6/28/05	11:30	27.2	7.15	11:50	14.1	8.53	OPEN	Scheduled
6/30/05	11:30	25.6	7.23	11:55	14.2	8.31	OPEN	Scheduled
7/1/05	10:35	23.7	7.48	11:05	14.3	8.60	OPEN	Scheduled
7/2/05	10:15	23.6	7.84	10:45	14.6	8.51	OPEN	Scheduled
7/4/05	10:30	22.4	8.03	10:40	15.1	8.57	OPEN	Scheduled
7/8/05	13:30	21.7	8.07	13:55	12.4	6.43	OPEN	Scheduled
7/11/05	10:00	21.2	8.17	10:30	13.6	7.21	OPEN	Scheduled
7/15/05	10:30	25.8	7.40	10:45	14.7	6.96	OPEN	Scheduled
7/16/05	10:30	25.9	7.35	10:50	14.6	6.83	OPEN	Scheduled
7/18/05	10:30	24.7	7.67	10:45	13.6	4.74	OPEN	Scheduled (UNIT)
7/19/05	10:30	24.2	7.44	10:50	16.6	6.56	OPEN	Scheduled
7/20/05	10:30	23.3	7.24	11:00	16.9	6.68	OPEN	Scheduled
7/21/05	10:15	22.6	7.82	10:30	15.0	6.27	OPEN	Scheduled
7/22/05	10:15	23.7	7.64	10:30	15.1	6.01	OPEN	Scheduled

NOTE: As appropriate per DO protocol, for normal monitoring, record in COMMENTS column whether no generation is scheduled, or weather, if unable to take measurement; for test of DO during startup, record times of generation and number of units generating; or, for effectiveness test, record non-operating tailwater level and upstream measurements (time, temperature, and DO).

**DEEP CREEK STATION
DISSOLVED OXYGEN MONITORING LOG**

DATE	INSTRUMENT CALIBRATION CAL. READINGS			DO MEASUREMENTS DOWNSTREAM FROM WEIR			SLUICE GATE POSITION	COMMENTS
	TIME	TEMP (deg C)	DO (mg/l)	TIME	TEMP (deg C)	DO (mg/l)		
7/23/05	10:45	24.3	7.71	11:05	14.9	5.32	OPEN	scheduled
7/25/05	10:40	24.3	7.67	10:50	15.1	5.30	OPEN	scheduled
7/24/05	13:30	24.9	7.07	13:45	15.7	6.38	2-closed 2-6"open	scheduled
7/29/05	10:30	20.4	8.23	10:45	15.8	6.27	2-closed 2-6"open	scheduled
8/1/05	10:15	22.2	7.68	10:45	15.6	6.33	2-closed 2-6"open	scheduled
8/4/05	10:15	24.3	7.73	11:45	15.2	6.19	2-closed 2-6"open	scheduled
8/5/05	10:45	24.0	7.72	10:55	15.7	6.11	2-closed 2-6"open	scheduled
8/6/05	10:30	22.5	7.65	10:45	15.3	6.03	2-closed 2-6"open	scheduled
8/8/05	10:30	21.0	8.29	10:45	15.6	6.09	2-closed 2-6"open	scheduled
8/9/05	12:30	22.9	7.78	12:45	15.2	6.01	2-closed 2-6"open	scheduled
8/10/05	11:30	26.3	7.35	11:45	15.4	6.10	2-closed 2-6"open	scheduled
8/12/05	10:30	27.6	7.06	11:00	16.0	6.04	2-closed 2-6"open	scheduled
8/15/05	10:30	25.8	7.38	10:45	15.9	6.03	2-closed 2-6"open	scheduled
8/17/05	12:30	25.1	7.46	12:45	15.8	6.06	2-closed 2-6"open	scheduled
8/19/05	10:30	24.8	7.50	10:45	17.1	6.09	2-closed 2-6"open	scheduled
8/22/05	10:30	23.6	7.29	10:45	16.8	6.19	2-closed 2-6"open	scheduled
8/25/05	11:30	23.2	7.33	11:45	16.7	6.15	2-closed 2-6"open	scheduled
8/26/05	10:30	24.3	7.27	10:50	16.3	6.21	2-closed 2-6"open	scheduled
8/29/05	10:30	23.6	7.68	10:45	16.8	6.33	2-closed 2-6"open	scheduled
9/2/05	10:30	22.9	7.49	10:40	17.1	6.23	2-closed 2-6"open	scheduled
9/9/05	10:30	20.9	8.12	10:40	17.4	6.41	2-closed 2-6"open	scheduled
9/12/05	10:40	20.6	7.86	10:50	18.0	6.14	2-closed 2-6"open	scheduled
9/16/05	10:30	23.7	7.58	10:45	17.6	6.26	2-closed 2-6"open	scheduled
9/19/05	10:30	22.1	7.42	10:45	17.9	6.19	2-closed 2-6"open	scheduled

NOTE: As appropriate per DO protocol, for normal monitoring, record in COMMENTS column whether no generation is scheduled, or weather, if unable to take measurement; for test of DO during startup, record time of generation and number of units generating; or, for effectiveness test, record non-operating tailwater level and upstream measurements (time, temperature, and DO).

APPENDIX E

ZEBRA MUSSEL MONITORING REPORT



Zebra Mussel Monitoring Report

(official use only - leave blank)
ZM Monitoring Network #:

- 1.) Carroll Thomas
(COLLECTOR'S NAME)
- 2.) BRASCAN Power 3.) 301-387-6616
(COMPANY OR AFFILIATION) (PHONE NUMBER)
- 4.) 14 Riverview Terrace
(ADDRESS)
- 5.) Deep Creek Power PLANT
(NAME OF STATION)

Physical / Chemical / and Biological Data

- 6.) _____ 7.) _____ 8.) _____
(STATION LATITUDE) (STATION LONGITUDE) (RIVER MILE INDEX)

9.) Date and time this data was collected (circle year, month, day, & hour)

Year: '98 '99 '00 '01 05
Month: 01 02 03 04 05 06 07 08 09 10 11 12
Day: 07 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31
Hour: _____ (if before 7am) 07 08 09 10 11 12 (noon) 13 (1pm) 14 (2pm) 15 (3pm) 16 (4pm) 17 18 _____ (if after 6pm)

- 10.) 61° F 11.) _____ 12.) _____ 13.) _____
(TEMPERATURE °C) (pH) (DISSOLVED OXYGEN mg/l) (CONDUCTIVITY umhos/cm²)
- 14.) _____ 15.) _____ 16.) _____ 17.) _____
(TOTAL CALCIUM mg/l) (SECCHI DEPTH meters) (CURRENT VELOCITY meters/sec) (WATER DEPTH meters)

- 18.) How far above the natural substrate is the sampler? (in meters) _____
- 19.) How many days was the sampler exposed to the water prior to collecting this data? 3
- 20.) Are zebra mussels present at this site? (NO) (YES) - if yes, comment below and notify the Zebra Mussel Monitoring Coordinator immediately.
- 21.) Other organisms observed on the sampler / site? (please list) None

22.) Comments (if more space is needed, continue on the back of this form):



Zebra Mussel Monitoring Report

(official use only - leave blank)
ZM Monitoring Network #:

- 1.) Carroll Thomas
(COLLECTOR'S NAME)
- 2.) BRASCAN Power 3.) 301-387-6616
(COMPANY OR AFFILIATION) (PHONE NUMBER)
- 4.) 14 Riverview Terrace
(ADDRESS)
- 5.) Deep Creek Power Plant
(NAME OF STATION)

Physical / Chemical / and Biological Data

- 6.) _____ 7.) _____ 8.) _____
(STATION LATITUDE) (STATION LONGITUDE) (RIVER MILE INDEX)
- 9.) Date and time this data was collected (circle year, month, day, & hour)
- Year: '98 '99 '00 '01 05
- Month: 01 02 03 04 05 06 07 08 09 10 11 12
- Day: 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31
- Hour: _____ (if before 7am) 07 08 09 10 11 12 (noon) 13 (1pm) 14 (2pm) 15 (3pm) 16 (4pm) 17 18 _____ (if after 6pm)
- 10.) 72° F 11.) _____ 12.) _____ 13.) _____
(TEMPERATURE °C) (pH) (DISSOLVED OXYGEN mg/l) (CONDUCTIVITY umhos/cm)
- 14.) _____ 15.) _____ 16.) _____ 17.) _____
(TOTAL CALCIUM mg/l) (SECCHI DEPTH meters) (CURRENT VELOCITY meters/sec) (WATER DEPTH meters)
- 18.) How far above the natural substrate is the sampler? (in meters) _____
- 19.) How many days was the sampler exposed to the water prior to collecting this data? 61
- 20.) Are zebra mussels present at this site? (NO) (YES) - if yes, comment below and notify the Zebra Mussel Monitoring Coordinator immediately.
- 21.) Other organisms observed on the sampler / site? (please list) None
- 22.) Comments (if more space is needed, continue on the back of this form): _____



Zebra Mussel Monitoring Report

(official use only - leave blank)
ZM Monitoring Network #:

- 1.) Carroll Thomas
(COLLECTOR'S NAME)
- 2.) BRASCAN Power
(COMPANY OR AFFILIATION)
- 3.) 301-387-6616
(PHONE NUMBER)
- 4.) 14 RiverView Terrace
(ADDRESS)
- 5.) Deep Creek Power PLANT
(NAME OF STATION)

Physical / Chemical / and Biological Data

- 6.) _____ 7.) _____ 8.) _____
(STATION LATITUDE) (STATION LONGITUDE) (RIVER MILE INDEX)
- 9.) Date and time this data was collected (circle year, month, day, & hour)
Year: '98 '99 '00 '01 05
Month: 01 02 03 04 05 06 07 08 09 10 11 12
Day: 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31
Hour: _____ (if before 7am) 07 08 09 10 11 12 (noon) 13 (1pm) 14 (2pm) 15 (3pm) 16 (4pm) 17 18 _____ (if after 6pm)
- 10.) 76° F 11.) _____ 12.) _____ 13.) _____
(TEMPERATURE °C) (pH) (DISSOLVED OXYGEN mg/l) (CONDUCTIVITY umhos/cm²)
- 14.) _____ 15.) _____ 16.) _____ 17.) _____
(TOTAL CALCIUM mg/l) (SECCHI DEPTH meters) (CURRENT VELOCITY meters/sec) (WATER DEPTH meters)
- 18.) How far above the natural substrate is the sampler? (in meters) _____
- 19.) How many days was the sampler exposed to the water prior to collecting this data? 92
- 20.) Are zebra mussels present at this site? (NO) (YES) - if yes, comment below and notify the Zebra Mussel Monitoring Coordinator immediately.

21.) Other organisms observed on the sampler / site? (please list) None

22.) Comments (if more space is needed, continue on the back of this form): _____



Zebra Mussel Monitoring Report

(official use only - leave blank)
ZM Monitoring Network #:

- 1.) Carroll Thomas
(COLLECTOR'S NAME)
- 2.) BRASCAN Power 3.) 301-387-6616
(COMPANY OR AFFILIATION) (PHONE NUMBER)
- 4.) 14 River view Terrace
(ADDRESS)
- 5.) Deep Creek Power PLANT
(NAME OF STATION)

Physical / Chemical / and Biological Data

- 6.) _____ 7.) _____ 8.) _____
(STATION LATITUDE) (STATION LONGITUDE) (RIVER MILE INDEX)
- 9.) Date and time this data was collected (circle year, month, day, & hour)
Year: '98 '99 '00 '01 05
Month: 01 02 03 04 05 06 07 08 09 10 11 12
Day: 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31
Hour: _____ (if before 7am) 07 08 09 10 11 12 (noon) 13 (1pm) 14 (2pm) 15 (3pm) 16 (4pm) 17 18 _____ (if after 6pm)
- 10.) 74° F 11.) _____ 12.) _____ 13.) _____
(TEMPERATURE °C) (pH) (DISSOLVED OXYGEN mg/l) (CONDUCTIVITY umhos/cm²)
- 14.) _____ 15.) _____ 16.) _____ 17.) _____
(TOTAL CALCIUM mg/l) (SECCHI DEPTH meters) (CURRENT VELOCITY meters/sec) (WATER DEPTH meters)
- 18.) How far above the natural substrate is the sampler? (in meters) _____
- 19.) How many days was the sampler exposed to the water prior to collecting this data? 122
- 20.) Are zebra mussels present at this site? (NO) (YES) - if yes, comment below and notify the Zebra Mussel Monitoring Coordinator immediately.
- 21.) Other organisms observed on the sampler / site? (please list) None
- 22.) Comments (if more space is needed, continue on the back of this form): _____



Zebra Mussel Monitoring Report

(official use only - leave blank)
ZM Monitoring Network #:

- 1.) CARROL THOMAS
(COLLECTOR'S NAME)
- 2.) BRASCAN Power 3.) 301-387-6616
(COMPANY OR AFFILIATION) (PHONE NUMBER)
- 4.) 14 River view Terrace
(ADDRESS)
- 5.) Deep Creek Power Plant
(NAME OF STATION)

Physical / Chemical / and Biological Data

- 6.) _____ 7.) _____ 8.) _____
(STATION LATITUDE) (STATION LONGITUDE) (RIVER MILE INDEX)
- 9.) Date and time this data was collected (circle year, month, day, & hour)
- Year: '98 '99 '00 '01 05
- Month: 01 02 03 04 05 06 07 08 09 10 11 12
- Day: 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31
- Hour: _____ (if before 7am) 07 08 09 10 11 12 (noon) 13 (1pm) 14 (2pm) 15 (3pm) 16 (4pm) 17 18 _____ (if after 6pm)
- 10.) 80° F 11.) _____ 12.) _____ 13.) _____
(TEMPERATURE °C) (pH) (DISSOLVED OXYGEN mg/l) (CONDUCTIVITY umhos/cm)
- 14.) _____ 15.) _____ 16.) _____ 17.) _____
(TOTAL CALCIUM mg/l) (SECCHI DEPTH meters) (CURRENT VELOCITY meters/sec) (WATER DEPTH meters)
- 18.) How far above the natural substrate is the sampler? (in meters) _____
- 19.) How many days was the sampler exposed to the water prior to collecting this data? 153
- 20.) Are zebra mussels present at this site? (NO) (YES) - if yes, comment below and notify the Zebra Mussel Monitoring Coordinator immediately.
- 21.) Other organisms observed on the sampler / site? (please list) None
- 22.) Comments (if more space is needed, continue on the back of this form): _____



Zebra Mussel Monitoring Report

(official use only - leave blank)
ZM Monitoring Network #:

- 1.) Carroll Thomas
(COLLECTOR'S NAME)
- 2.) BRASCAN Power 3.) 301-387-6616
(COMPANY OR AFFILIATION) (PHONE NUMBER)
- 4.) 14 River View Terrace
(ADDRESS)
- 5.) Deep Creek Power Plant
(NAME OF STATION)

Physical / Chemical / and Biological Data

- 6.) _____ 7.) _____ 8.) _____
(STATION LATITUDE) (STATION LONGITUDE) (RIVER MILE INDEX)

9.) Date and time this data was collected (circle year, month, day, & hour)

Year: '98 '99 '00 '01 05

Month: 01 02 03 04 05 06 07 08 09 10 11 12

Day: 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31

Hour: _____ (if before 7am) 07 08 09 10 11 12 (noon) 13 (1pm) 14 (2pm) 15 (3pm) 16 (4pm) 17 18 _____ (if after 6pm)

- 10.) 76° F 11.) _____ 12.) _____ 13.) _____
(TEMPERATURE °C) (pH) (DISSOLVED OXYGEN mg/l) (CONDUCTIVITY umhos/cm²)
- 14.) _____ 15.) _____ 16.) _____ 17.) _____
(TOTAL CALCIUM mg/l) (SECCHI DEPTH meters) (CURRENT VELOCITY meters/sec) (WATER DEPTH meters)

- 18.) How far above the natural substrate is the sampler? (in meters) _____
- 19.) How many days was the sampler exposed to the water prior to collecting this data? 184
- 20.) Are zebra mussels present at this site? (NO) (YES) - if yes, comment below and notify the Zebra Mussel Monitoring Coordinator immediately.

21.) Other organisms observed on the sampler / site? (please list) None
Pulled sampler for year

22.) Comments (if more space is needed, continue on the back of this form):

APPENDIX F

RELIANT ENERGY MARYLAND HOLDINGS, LLC PORTION OF THE
ANNUAL COMPLIANCE SUBMITTAL



121 Champion Way
Suite 200
Canonsburg, PA 15317

Writers Direct Dial 724/597-8028

December 19, 2005

Mr. Jeffrey M. Auser
Brascan Power New York
225 Greenfield Parkway, Suite 201
Liverpool, NY 13088

Subject: Annual Report for Deep Creek Power Plant
Reliant Energy Maryland Holdings, LLC

Dear Mr. Auser:

Please find enclosed a table and graph depicting water surface elevations of Deep Creek Reservoir from January 1, 2005 through April 26, 2005. Deep Creek Reservoir exceeded the Upper Rule Band from January 8 through 15 and from March 29 through 31 during this time period. Deep Creek received over 5.5 inches of rain between January 2 and 8, causing water elevations in the reservoir to increase by 1.3 feet. Nearly 3.4 inches of rain fell on Deep Creek between March 21 and March 28. Surface water elevations exceeded the URB by a maximum of 0.5 feet on January 13 and March 31.

Also enclosed is the operator log for the period of April 15 through April 26, 2005. Deep Creek complied with the terms of the operating permit by releasing water for whitewater recreation on Mondays, Fridays and the first Saturday of April during this period. Condition 19 of the permit reads:

"WHEN LAKE LEVELS ARE BETWEEN THE UPPER AND LOWER RULE BANDS, AND NATURAL RIVER FLOW IS LESS THAN 1300 CFS, NO RELEASES SHALL BE MADE BETWEEN 1600 HOURS AND 0800 HOURS OF THE FOLLOWING MORNING, UNLESS THE RELEASE ALSO PROVIDES THREE CONSECUTIVE HOURS OF FLOWS SUITABLE FOR WHITEWATER BOATING DURING THE HOURS BETWEEN 0800 AND 1600 HOURS. ..."

A release starting at 1355 hours provided only 2 hours, 5 minutes of generation between the hours of 0800 and 1600 on Thursday, April 21, 2005. The release continued into the evening to 2200 hours. A release of more than three consecutive hours occurred the next day, Friday, April 22.

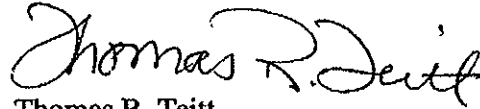
This letter and the enclosed tables and graph represent the final report for Deep Creek Power Plant for the time period of January 1, 2005 through April 26, 2005. As discussed with Mr. Mark Filar of the Maryland Department of the Environment, this report satisfies the 2005

Page 2
December 19, 2005

reporting requirements for Reliant Energy Maryland Holdings, LLC. Please include a copy of this report as an appendix to the report being prepared by Brascan Power covering the remainder of the operating year.

If you have any questions regarding the information contained in this report, please feel free to call me at the number above.

Sincerely,



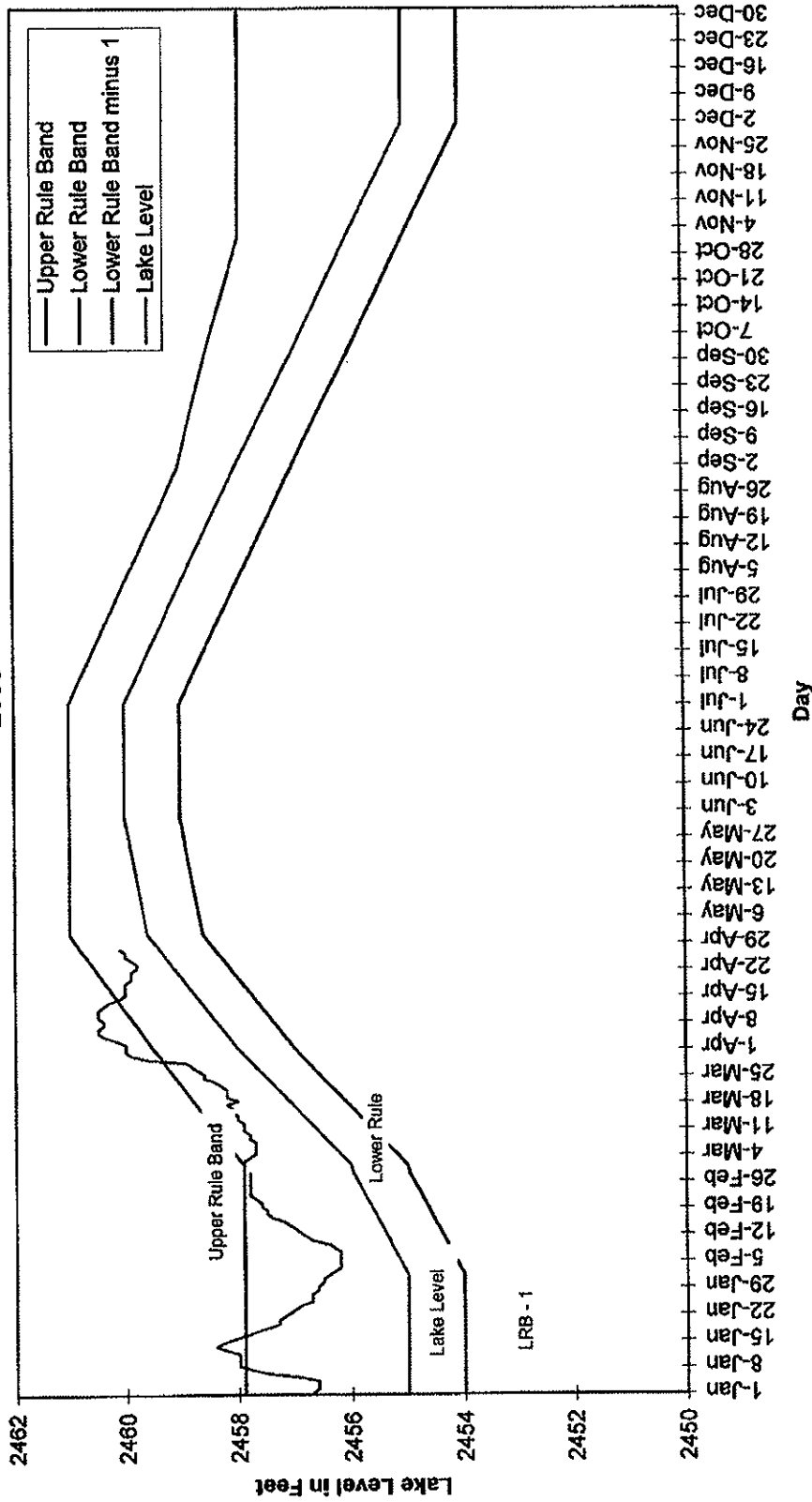
Thomas R. Teitt
Environmental Manager

trt194

Attachments

cc: Connie Calfee - Reliant
Glenn Neiport - Brascan
Mark Filar - MDE

Deep Creek Lake Level 2005



**Deep Creek Power Plant
Lake Level Report
January 1 - April 26, 2005**

Date	Lake Level	URB	Date	Lake Level	URB	Date	Lake Level	URB
January 1	2456.7	2457.9	February 1	2456.4	2457.9	March 1	2457.9	2459.5
January 2	2456.6	2457.9	February 2	2456.3	2457.9	March 2	2457.9	2459.5
January 3	2456.6	2457.9	February 3	2456.2	2457.9	March 3	2457.8	2459.5
January 4	2456.6	2457.9	February 4	2456.2	2457.9	March 4	2457.7	2459.5
January 5	2456.9	2457.9	February 5	2456.2	2457.9	March 5	2457.7	2459.5
January 6	2457.5	2457.9	February 6	2456.2	2457.9	March 6	2457.7	2459.5
January 7	2457.8	2457.9	February 7	2456.2	2457.9	March 7	2457.7	2459.5
January 8	2458	2457.9	February 8	2456.3	2457.9	March 8	2457.8	2459.5
January 9	2458.0	2457.9	February 9	2456.4	2457.9	March 9	2457.8	2459.5
January 10	2458.0	2457.9	February 10	2456.7	2457.9	March 10	2457.9	2459.5
January 11	2458.0	2457.9	February 11	2456.8	2457.9	March 11	2457.9	2459.5
January 12	2458.2	2457.9	February 12	2456.9	2457.9	March 12	2457.9	2459.5
January 13	2458.4	2457.9	February 13	2457.0	2457.9	March 13	2458.0	2459.5
January 14	2458.3	2457.9	February 14	2457.1	2457.9	March 14	2458.0	2459.5
January 15	2458.1	2457.9	February 15	2457.2	2457.9	March 15	2458.1	2459.5
January 16	2457.9	2457.9	February 16	2457.4	2457.9	March 16	2458.1	2459.5
January 17	2457.7	2457.9	February 17	2457.5	2457.9	March 17	2458.2	2459.5
January 18	2457.5	2457.9	February 18	2457.5	2457.9	March 18	2458.0	2459.5
January 19	2457.3	2457.9	February 19	2457.6	2457.9	March 19	2458.2	2459.5
January 20	2457.3	2457.9	February 20	2457.6	2457.9	March 20	2458.2	2459.5
January 21	2457.2	2457.9	February 21	2457.7	2457.9	March 21	2458.2	2459.5
January 22	2457.1	2457.9	February 22	2457.8	2457.9	March 22	2458.3	2459.5
January 23	2457.0	2457.9	February 23	2457.8	2457.9	March 23	2458.4	2459.5
January 24	2456.9	2457.9	February 24	2457.8	2457.9	March 24	2458.6	2459.5
January 25	2456.7	2457.9	February 25	2457.8	2457.9	March 25	2458.6	2459.5
January 26	2456.7	2457.9	February 26	2457.8	2457.9	March 26	2458.7	2459.5
January 27	2456.7	2457.9	February 27	2457.8	2457.9	March 27	2458.8	2459.5
January 28	2456.6	2457.9	February 28	2457.8	2457.9	March 28	2458.9	2459.5
January 29	2456.6	2457.9				March 29	2459.0	2459.5
January 30	2456.5	2457.9				March 30	2459.9	2459.5
January 31	2456.5	2457.9				March 31	2460.0	2459.5

Deep Creek Power Plant Unit Online Report

From: 15-Apr-05 To: 28-Apr-05

Unit	Start Date	End Date	Comments
DEEP CREEK C 1	4/15/2005 10:00	4/15/2005 13:00	Scheduled run. FE notified.
DEEP CREEK C 1	4/16/2005 10:00	4/16/2005 13:00	Scheduled run. Notified FE.
DEEP CREEK C 1	4/18/2005 9:58	4/18/2005 16:07	On for scheduled run, tape updated.
DEEP CREEK C 1	4/19/2005 13:18	4/19/2005 16:00	
DEEP CREEK C 1	4/20/2005 8:37	4/20/2005 10:44	
DEEP CREEK C 1	4/21/2005 8:00	4/21/2005 9:10	
DEEP CREEK C 1	4/21/2005 13:55	4/21/2005 22:00	
DEEP CREEK C 1	4/22/2005 7:40	4/22/2005 13:05	
DEEP CREEK C 1	4/23/2005 10:20	4/23/2005 12:25	
DEEP CREEK C 1	4/25/2005 10:00	4/25/2005 13:00	Scheduled run. Only running one unit due to river flow of 384, FE notified.
DEEP CREEK C 2	4/15/2005 10:00	4/15/2005 13:00	Scheduled run. FE notified.
DEEP CREEK C 2	4/16/2005 10:00	4/16/2005 13:00	Scheduled run. Notified FE.
DEEP CREEK C 2	4/18/2005 9:58	4/18/2005 16:07	On for scheduled run, tape updated.
DEEP CREEK C 2	4/19/2005 13:18	4/19/2005 16:00	
DEEP CREEK C 2	4/20/2005 8:37	4/20/2005 10:44	
DEEP CREEK C 2	4/21/2005 8:00	4/21/2005 9:10	
DEEP CREEK C 2	4/21/2005 13:55	4/21/2005 22:00	
DEEP CREEK C 2	4/22/2005 7:40	4/22/2005 13:05	
DEEP CREEK C 2	4/23/2005 10:20	4/23/2005 12:25	



Devine Tarbell & Associates, Inc.
Consulting Engineers, Scientists, & Regulatory Specialists

*Have my copy
I don't need it*

RECEIVED

JAN 30 2006

Principals:
John J. Devine, P.E., President
John C. Tarbell, P.E.
James M. Lynch
Edwin C. Luttrell, P.E.

FEDERAL EXPRESS

January 27, 2006

Mr. John Grace, Chief
Source Protection & Appropriation Division
Maryland Department of the Environment
1800 Washington Boulevard
Baltimore, MD 21230

RE: Water Appropriation and Use Permit No. GA92S009(06) 2005 Annual Report

Dear Mr. Gracie:

On behalf of Brascan Power Piney & Deep Creek, LLC (Brascan) and in accordance with Condition 23 of Permit No. GA92S009(06), please find enclosed the 2005 Annual Report for the Deep Creek Hydroelectric Station (Deep Creek).

Please note that Deep Creek changed ownership during 2005. The facility was purchased by Brascan from Reliant Energy Maryland Holdings, LLC (Reliant) with the final transfer on April 27, 2005. On December 19, 2005, Reliant provided Brascan with the appropriate Deep Creek data from January 1 through April 26 for inclusion in the Annual Report. A copy of this transmittal is provided in Appendix F of the report.

If you have any questions regarding this report, please direct them to the undersigned at (315) 641-1624.

Sincerely,

Scott A. Jones

Scott A. Jones
Regulatory Specialist/Biologist

Attachment

- XC: S. Schreiner (Versar)
- R. McLean (MDE)
- M. Filar (MDE)
- G. Neiport (Brascan)
- C. Thomas (Brascan)
- J. Auser (Brascan)
- E. Becker (Brascan)
- T. Uncher (Brascan)

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Bothell, Washington
425-485-5668/5934 (fax)

Syracuse, New York
315-641-1624/1626 (fax)

Bellingham, Washington
360-671-1150/1152 (fax)