

Brookfield

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JUL 2015
WATER SUPPLY DIV

**DEEP CREEK STATION
MARYLAND WATER APPROPRIATION
PERMIT
NO. GA1992S009 (08)
TEMPERATURE MONITORING REPORT
JUNE 2015**



Brookfield Renewable Energy Group
Atlantic Operations
Brookfield Renewable Power Piney & Deep Creek, LLC
Deep Creek Station
14 River View Terrace
Oakland MD 21550

Phone: 301-387-6516
Fax: 301-387-5809

Via USP Ground

July 2, 2015

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

**RE: Water Appropriation and Use Permit No. GA1992S009 (08)
Temperature Monitoring at the Sang Run Bridge on the Youghiogheny River
June 2015**

Dear Mr. Grace:

Temperature in the Youghiogheny River at the Sang Run Bridge temperature monitor exceeded 25°C on June 10 from 4:30 PM – 4:50 PM. The attached Deep Creek Station Exceedance Table and the Summary of Excursions provide additional details.

TERs were conducted on June 10 and 11. Per the Water Appropriation and Use Permit issued on June 17, 2011, TERs were not conducted on regularly scheduled whitewater release days or when river flows exceeded 150 cfs.

The Temperature Enhancement Protocol Operating Log sheets for June 2015 and the daily temperature monitor readings are attached for your review. Please contact me at 301-387-6616 ext. 108 or by email at randy.garletts@brookfieldrenewable.com if you have any questions about this submittal.

Sincerely,

Randy Garletts
Compliance Specialist

Attachment: June 2015 Sang Run Temperature Report

cc: M. Olson (Brookfield)
M. Stanley (Brookfield)
J. Morton (Brookfield)

Summary of Temperature Excursions
June 1, 2015 to June 30, 2015

Date	Duration	Max Temp (°C)	Cause	Remarks
June 10, 2015	0 hours 20 minutes	25.07	Model Uncertainty	The temperature protocol conducted on Thursday, June 10 called for a one hour release to commence not later than 15:30. A release using both units at full gate opening was made from 15:00 - 16:00.

**DEEP CREEK STATION TEMPERATURE
EXCEEDANCE TABLE JUNE 2015**

EXCEEDANCE $\geq 25^{\circ}\text{C}$ AT SANG RUN TEMPERATURE PROBE

DATE	DURATION	MAXIMUM
June 10, 2015	16:30 – 16:50	25.07

**Temperature Enhancement Protocol Operating Log
Sheets – June 2015**

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

Simulate a Re

168 = CFS River Flow at Oakland


June 1, 2015

Print Info for

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	(23 to 26 4)	Temperature Plan not Required Today - Flow Exceeds 150 CFS
0900	(23 to 25 9)	
1100	(23 to 25 4)	
1200	(23 to 25 3)	
1400	(23 to 25 2)	
1500		

Tair °C	22.22	Air Temp, Elkins WV - Degree C	72	Air Temp, Elkins WV - Degree F
CCF	64	Cloud Cover Factor Elkins WV	SHWRS	Cloud Cover, Elkins WV
T7	No Data	River Temp Sang Run @700		
T9	--	River Temp Sang Run @900		
T11	--	River Temp Sang Run @1100		
T12	--	River Temp Sang Run @1200		
T14	--	River Temp Sang Run @1400		
T15	--	River Temp Sang Run @1500		
Q	168.00	River Flow at Oakland		

Wh. trwnt - Release



YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

Simulate a R

118 = CFS River Flow at Oakland

June 2, 2015

Print Info for

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

Tair °C	18.33	Air Temp, Elkins WV - Degree C	65	Air Temp, Elkins WV - Degree F
CCF	84	Cloud Cover Factor, Elkins WV	SHWRS	Cloud Cover, Elkins WV
T7	17.10	River Temp Sang Run @700		
T9	--	River Temp Sang Run @900		
T11	--	River Temp Sang Run @1100		
T12	--	River Temp Sang Run @1200		
T14	--	River Temp Sang Run @1400		
T15	--	River Temp Sang Run @1500		
Q	118.00	River Flow at Oakland		

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

Simulate a R:

156 = CFS River Flow at Oakland

June 3, 2015

Print Info for

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

Tair °C	19.44	Air Temp. Elkins WV - Degree C	67	Air Temp. Elkins WV - Degree F
CCF	64	Cloud Cover Factor, Elkins WV	SHWRS	Cloud Cover, Elkins WV
T7	16.10	River Temp Sang Run @700		
T9	--	River Temp Sang Run @900		
T11	--	River Temp Sang Run @1100		
T12	--	River Temp Sang Run @1200		
T14	--	River Temp Sang Run @1400		
T15	--	River Temp Sang Run @1500		
Q	156.00	River Flow at Oakland		

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

Simulate a Re

115 = CFS River Flow at Oakland

June 4, 2015

Print Info for

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

Tair °C	22.22	Air Temp, Elkins WV - Degree C	72	Air Temp, Elkins WV - Degree F
CCF	100	Cloud Cover Factor, Elkins WV	TSTRMS	Cloud Cover, Elkins WV
T7	14.90	River Temp Sang Run @700		
T9	--	River Temp Sang Run @900		
T11	--	River Temp Sang Run @1100		
T12	--	River Temp Sang Run @1200		
T14	--	River Temp Sang Run @1400		
T15	--	River Temp Sang Run @1500		
Q	115.00	River Flow at Oakland		

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

Simulate a Re

90 = CFS River Flow at Oakland

June 5, 2015

Print Info for

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	15.60 (23 to 26.4)	No Further Predictions Necessary Today
0900	— (23 to 25.9)	
1100	— (23 to 25.4)	
1200	— (23 to 25.3)	
1400	— (23 to 25.2)	
1500	—	

Tair C	23.89	Air Temp, Elkins WV - Degree C	75	Air Temp, Elkins WV - Degree F
CCF	100	Cloud Cover Factor, Elkins WV	TSTRMS	Cloud Cover, Elkins WV
T7	15.60	River Temp Sang Run @700		
T9	—	River Temp Sang Run @900		
T11	—	River Temp Sang Run @1100		
T12	—	River Temp Sang Run @1200		
T14	—	River Temp Sang Run @1400		
T15	—	River Temp Sang Run @1500		
Q	90.00	River Flow at Oakland		

OPERATOR - *al m...*

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

Simulate a Re

103 = CFS River Flow at Oakland

June 6, 2015

Print Info for

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	18.41 (23 to 26.4)	No Further Predictions Necessary Today
0900	(23 to 25.9)	
1100	(23 to 25.4)	
1200	(23 to 25.3)	
1400	(23 to 25.2)	
1500		

Tair °C	24.44	Air Temp, Elkins WV - Degree C
CCF	100	Cloud Cover Factor, Elkins WV
T7	15.70	River Temp Sang Run @700
T9	--	River Temp Sang Run @900
T11	--	River Temp Sang Run @1100
T12	--	River Temp Sang Run @1200
T14	--	River Temp Sang Run @1400
T15	--	River Temp Sang Run @1500
Q	103.00	River Flow at Oakland

76
TSTRMS

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

operator 

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

Simulate a Re

78 = CFS River Flow at Oakland

June 7, 2015

Print Info for

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	21.26 (23 to 26.4)	Check Again at 0900
0900	21.04 (23 to 25.9)	Check Again at 1100
1100	23.58 (23 to 25.4)	Check Again at 1200
1200	22.84 (23 to 25.3)	Check Again at 1400
1400	23.22 (23 to 25.2)	Check Again at 1500
1500	23.08	Check Again Tomorrow at 0700

Tair °C	27.78	Air Temp. Elkins WV - Degree C	82	Air Temp. Elkins WV - Degree F
CCF	100	Cloud Cover Factor, Elkins WV	TSTRMS	Cloud Cover, Elkins WV
T7	15.40	River Temp Sang Run @700		
T9	15.70	River Temp Sang Run @900		
T11	17.60	River Temp Sang Run @1100		
T12	18.10	River Temp Sang Run @1200		
T14	20.40	River Temp Sang Run @1400		
T15	21.30	River Temp Sang Run @1500		
Q	78.00	River Flow at Oakland		

OPERATOR - *al m h ll*

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

Simulate a R:

UA = CFS River Flow at Oakland

June 8, 2015

Print Info for

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	(23 to 26.4)	Need Flow Estimate to Proceed
0900	(23 to 25.9)	-
1100	(23 to 25.4)	-
1200	(23 to 25.3)	-
1400	(23 to 25.2)	-
1500		-

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

WHITewater RELEASE 1100 → 1400. TEMP PLAN N/A.

tan B
R. Nelson S/S

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

Simulate a Ra

70 = CFS River Flow at Oakland

June 9, 2015

Print Info for

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	21.86 (23 to 26.4)	Check Again at 0900
0900	21.84 (23 to 25.9)	Check Again at 1100
1100	22.61 (23 to 25.4)	Check Again at 1200
1200	22.53 (23 to 25.3)	Check Again at 1400
1400	23.46 (23 to 25.2)	Check Again at 1500
1500	23.19	Check Again Tomorrow at 0700

Tair °C	23.89	Air Temp, Elkins WV - Degree C	75	Air Temp, Elkins WV - Degree F
CCF	64	Cloud Cover Factor, Elkins WV	SHWRS	Cloud Cover, Elkins WV
T7	17.90	River Temp Sang Run @700		
T9	18.00	River Temp Sang Run @900		
T11	18.70	River Temp Sang Run @1100		
T12	19.30	River Temp Sang Run @1200		
T14	21.40	River Temp Sang Run @1400		
T15	21.90	River Temp Sang Run @1500		
Q	70.00	River Flow at Oakland		

R. Nelson 6/09/15

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

Simulate a R:

78 = CFS River Flow at Oakland

June 10, 2015

Print Info for

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	23.54 (23 to 26.4)	Check Again at 0900
0900	23.45 (23 to 25.9)	Check Again at 1100
1100	24.35 (23 to 25.4)	Check Again at 1200
1200	24.51 (23 to 25.3)	Check Again at 1400
1400	24.73 (23 to 25.2)	Check Again at 1500
1500	25.00	Release ASAP - not later than 1530 for 1 hour

Tair °C	28.33	Air Temp, Elkins WV - Degree C	83	Air Temp, Elkins WV - Degree F
CCF	9	Cloud Cover Factor, Elkins WV	MOSUNNY	Cloud Cover, Elkins WV
T7	18.50	River Temp Sang Run @700		
T9	16.70	River Temp Sang Run @900		
T11	18.00	River Temp Sang Run @1100		
T12	19.30	River Temp Sang Run @1200		
T14	22.00	River Temp Sang Run @1400		
T15	23.50	River Temp Sang Run @1500		
Q	78.00	River Flow at Oakland		

RELEASE STARTED @ 1500 AND WILL CONTINUE TO 1600.

Handwritten signature: R. Inelken

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

Simulate a R:

56 = CFS River Flow at Oakland

June 11, 2015

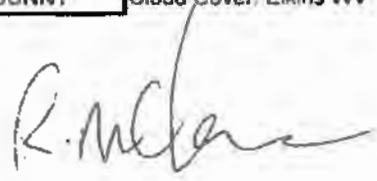
Print Info for

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	25.75 (23 to 26.4)	Check Again at 0900
0900	25.68 (23 to 25.9)	Check Again at 1100
1100	25.11 (23 to 25.4)	Release at 1230 for 2 Hours
1200	25.00 (23 to 25.3)	-
1400	25.00 (23 to 25.2)	-
1500	25.00	-

Tair C	31.11	Air Temp, Elkins WV - Degree C
CCF	9	Cloud Cover Factor, Elkins WV
T7	17.80	River Temp Sang Run @700
T9	18.00	River Temp Sang Run @900
T11	19.70	River Temp Sang Run @1100
T12	-	River Temp Sang Run @1200
T14	-	River Temp Sang Run @1400
T15	-	River Temp Sang Run @1500
Q	56.00	River Flow at Oakland

88
MOSUNNY

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



YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

Simulate a R:

46 = CFS River Flow at Oakland

June 12, 2015

Print Info for

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	25.65 (23 to 26.4)	Check Again at 0900
0900	(23 to 25.9)	Input 0900 SANG RUN Temp
1100	(23 to 25.4)	Input 0900 SANG RUN Temp
1200	(23 to 25.3)	Input 0900 SANG RUN Temp
1400	(23 to 25.2)	Input 0900 SANG RUN Temp
1500		Input 0900 SANG RUN Temp

Tair C	30.00	Air Temp, Elkins WV - Degree C	88	Air Temp, Elkins WV - Degree F
CCF	36	Cloud Cover Factor, Elkins WV	PTCLDY	Cloud Cover, Elkins WV
T7	18.90	River Temp Sang Run @700		
T9	--	River Temp Sang Run @900		
T11	--	River Temp Sang Run @1100		
T12	--	River Temp Sang Run @1200		
T14	--	River Temp Sang Run @1400		
T15	--	River Temp Sang Run @1500		
Q	46.00	River Flow at Oakland		

WHITE WATER RELEASE @ ME 1100

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN


Simulate a Re

60 = CFS River Flow at Oakland

June 13, 2015

Print Info for

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	23.88 (23 to 26.4)	Check Again at 0900
0900	23.98 (23 to 25.9)	Check Again at 1100
1100	23.89 (23 to 25.4)	Check Again at 1200
1200	23.79 (23 to 25.3)	Check Again at 1400
1400	23.87 (23 to 25.2)	Check Again at 1500
1500	24.14	Check Again Tomorrow at 0700

Tair C	28.33	Air Temp, Elkins WV - Degree C	83	Air Temp, Elkins WV - Degree F
CCF	100	Cloud Cover Factor, Elkins WV	TSTRMS	Cloud Cover, Elkins WV
T7	20.50	River Temp Sang Run @700		
T9	20.70	River Temp Sang Run @900		
T11	20.70	River Temp Sang Run @1100		
T12	21.00	River Temp Sang Run @1200		
T14	21.90	River Temp Sang Run @1400		
T15	23.00	River Temp Sang Run @1500		
Q	60.00	River Flow at Oakland		

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN


Simulate a R:

151 = CFS River Flow at Oakland

June 14, 2015

Print Info for

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	22.43 (23 to 26.4)	Temperature Plan not Required Today - Flow Exceeds 150 CFS
0900	(23 to 25.9)	
1100	(23 to 25.4)	
1200	(23 to 25.3)	
1400	(23 to 25.2)	
1500		

Tair °C	28.89	Air Temp, Elkins WV - Degree C	84	Air Temp, Elkins WV - Degree F
CCF	100	Cloud Cover Factor, Elkins WV	TSTRMS	Cloud Cover, Elkins WV
T7	20.40	River Temp Sang Run @700		
T9	-	River Temp Sang Run @900		
T11	-	River Temp Sang Run @1100		
T12	-	River Temp Sang Run @1200		
T14	-	River Temp Sang Run @1400		
T15	-	River Temp Sang Run @1500		
Q	151.00	River Flow at Oakland		

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

Simulate a R2

168 = CFS River Flow at Oakland

June 15, 2015

Print Info for

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

Tair °C	28.89	Air Temp, Elkins WV - Degree C	84	Air Temp, Elkins WV - Degree F
CCF	64	Cloud Cover Factor, Elkins WV	SHWRS	Cloud Cover, Elkins WV
T7	No Data	River Temp Sang Run @700		
T9	-	River Temp Sang Run @900		
T11	-	River Temp Sang Run @1100		
T12	-	River Temp Sang Run @1200		
T14	-	River Temp Sang Run @1400		
T15	-	River Temp Sang Run @1500		
Q	168.00	River Flow at Oakland		

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

Simulate a R:

357 = CFS River Flow at Oakland

June 16, 2015

Print Info for

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	22.17 (23 to 26.4)	Temperature Plan not Required Today - Flow Exceeds 150 CFS
0900	(23 to 25.9)	
1100	(23 to 25.4)	
1200	(23 to 25.3)	
1400	(23 to 25.2)	
1500		

Tair °C	27.78	Air Temp, Elkins WV - Degree C	82	Air Temp, Elkins WV - Degree F
CCF	100	Cloud Cover Factor, Elkins WV	TSTRMS	Cloud Cover, Elkins WV
T7	20.70	River Temp Sang Run @700		
T9	--	River Temp Sang Run @900		
T11	--	River Temp Sang Run @1100		
T12	--	River Temp Sang Run @1200		
T14	--	River Temp Sang Run @1400		
T15	--	River Temp Sang Run @1500		
Q	357.00	River Flow at Oakland		

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

Simulate a R:

233 = CFS River Flow at Oakland

June 17, 2015

Print Info for

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	21.85 (23 to 26.4)	Temperature Plan not Required Today - Flow Exceeds 150 CFS
0900	(23 to 25.9)	
1100	(23 to 25.4)	
1200	(23 to 25.3)	
1400	(23 to 25.2)	
1500		

Tair °C	26.11	Air Temp, Elkins WV - Degree C	79	Air Temp, Elkins WV - Degree F
CCF	64	Cloud Cover Factor, Elkins WV	SHWRS	Cloud Cover, Elkins WV
T7	19.30	River Temp Sang Run @700		
T9	--	River Temp Sang Run @900		
T11	--	River Temp Sang Run @1100		
T12	--	River Temp Sang Run @1200		
T14	--	River Temp Sang Run @1400		
T15	--	River Temp Sang Run @1500		
Q	233.00	River Flow at Oakland		

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

Simulate a R:

507 = CFS River Flow at Oakland

June 18, 2015

Print Info for

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	21.85 (23 to 26.4)	Temperature Plan not Required Today - Flow Exceeds 150 CFS
0900	---	---
1100	---	---
1200	---	---
1400	---	---
1500	---	---

Tair °C	28.89	Air Temp, Elkins WV - Degree C	84	Air Temp, Elkins WV - Degree F
CCF	100	Cloud Cover Factor, Elkins WV	TSTRMS	Cloud Cover, Elkins WV
T7	18.70	River Temp Sang Run @700		
T9	--	River Temp Sang Run @900		
T11	--	River Temp Sang Run @1100		
T12	--	River Temp Sang Run @1200		
T14	--	River Temp Sang Run @1400		
T15	--	River Temp Sang Run @1500		
Q	507.00	River Flow at Oakland		

B. Z. B.

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

Simulate a R:

409 = CFS River Flow at Oakland

June 19, 2015

Print Info for

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	(23 to 26.4)	Temperature Plan not Required Today - Flow Exceeds 150 CFS
0900	(23 to 26.9)	
1100	(23 to 25.4)	
1200	(23 to 25.3)	
1400	(23 to 25.2)	
1500		

Tair C	25.00	Air Temp, Elkins WV - Degree C	77	Air Temp, Elkins WV - Degree F
CCF	64	Cloud Cover Factor, Elkins WV	SHWRS	Cloud Cover, Elkins WV
T7	No Data	River Temp Sang Run @700		
T9	--	River Temp Sang Run @900		
T11	--	River Temp Sang Run @1100		
T12	--	River Temp Sang Run @1200		
T14	--	River Temp Sang Run @1400		
T15	--	River Temp Sang Run @1500		
Q	409.00	River Flow at Oakland		

AWK


YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

Simulate a R:

UA = CFS River Flow at Oakland

June 20, 2015

Print Info for

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	(23 to 26 4)	Need Flow Estimate to Proceed
0900	(23 to 25 9)	-
1100	(23 to 25 4)	-
1200	(23 to 25 3)	-
1400	(23 to 25 2)	-
1500		-

Tair °C	25.00	Air Temp, Elkins WV - Degree C	77	Air Temp, Elkins WV - Degree F
CCF	100	Cloud Cover Factor, Elkins WV	RAIN	Cloud Cover, Elkins WV
T7	No Data	River Temp Sang Run @700		
T9	--	River Temp Sang Run @900		
T11	--	River Temp Sang Run @1100		
T12	--	River Temp Sang Run @1200		
T14	--	River Temp Sang Run @1400		
T15	--	River Temp Sang Run @1500		
Q	UA	River Flow at Oakland		

WWR

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

Simulate a Re

2120 = CFS River Flow at Oakland

June 21, 2015

Print Info for

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

Tair °C	26.67	Air Temp, Elkins WV - Degree C	80	Air Temp, Elkins WV - Degree F
CCF	64	Cloud Cover Factor, Elkins WV	SHWRS	Cloud Cover, Elkins WV
T7	No Data	River Temp Sang Run @700		
T9	--	River Temp Sang Run @900		
T11	--	River Temp Sang Run @1100		
T12	--	River Temp Sang Run @1200		
T14	--	River Temp Sang Run @1400		
T15	--	River Temp Sang Run @1500		
Q	2120.00	River Flow at Oakland		

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

Simulate a Re

1130 = CFS River Flow at Oakland

June 22, 2015

Print Info for

Time	Predicted Maximum River Water Temperature Degree C	
		Deep Creek Action
0700	22.75 (23 to 26.4)	Temperature Plan not Required Today / Flow Exceeds 150 CFS
0900	(23 to 25.9)	-
1100	(23 to 25.4)	-
1200	(23 to 25.3)	-
1400	(23 to 25.2)	-
1500		-

Tair °C	29.44	Air Temp, Elkins WV - Degree C	85	Air Temp, Elkins WV - Degree F
CCF	16	Cloud Cover Factor, Elkins WV	FAIR	Cloud Cover, Elkins WV
T7	16.10	River Temp Sang Run @700		
T9	--	River Temp Sang Run @900		
T11	--	River Temp Sang Run @1100		
T12	--	River Temp Sang Run @1200		
T14	--	River Temp Sang Run @1400		
T15	--	River Temp Sang Run @1500		
Q	1130.00	River Flow at Oakland		

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

Simulate a R:

564 = CFS River Flow at Oakland

June 23, 2015

Print Info for

Time	Predicted Maximum River Water Temperature Degree C	
		Deep Creek Action
0700	23.49 (23 to 26.4)	Temperature Plan not Required Today - Flow Exceeds 150 CFS
0900	(23 to 25.9)	-
1100	(23 to 25.4)	-
1200	(23 to 25.3)	-
1400	(23 to 25.2)	-
1500		-

Tair C	29.44	Air Temp, Elkins WV - Degree C
CCF	18	Cloud Cover Factor, Elkins WV
T7	18.30	River Temp Sang Run @700
T9	-	River Temp Sang Run @900
T11	-	River Temp Sang Run @1100
T12	-	River Temp Sang Run @1200
T14	-	River Temp Sang Run @1400
T15	-	River Temp Sang Run @1500
Q	564.00	River Flow at Oakland

85
FAIR

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

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN


Simulate a R:

641 = CFS River Flow at Oakland

June 24, 2015

Print Info for

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	21.9d (23 to 26.4)	Temperature Plan not Required Today - Flow Exceeds 150 CFS
0900	(23 to 25.9)	
1100	(23 to 25.4)	
1200	(23 to 25.3)	
1400	(23 to 25.2)	
1500		

Tair C	26.11	Air Temp, Elkins WV - Degree C	79	Air Temp, Elkins WV - Degree F
CCF	36	Cloud Cover Factor, Elkins WV	HAZE	Cloud Cover, Elkins WV
T7	18.00	River Temp Sang Run @700		
T9	--	River Temp Sang Run @900		
T11	--	River Temp Sang Run @1100		
T12	--	River Temp Sang Run @1200		
T14	--	River Temp Sang Run @1400		
T15	--	River Temp Sang Run @1500		
Q	641.00	River Flow at Oakland		

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

Simulate a Re

347 = CFS River Flow at Oakland

June 25, 2015

Print Info for

Time	Predicted Maximum River Water Temperature Degree C	
		<u>Deep Creek Action</u>
0700	22.19 (23 to 26.4)	Temperature Plan not Required Today - Flow Exceeds 150 CFS
0900	(23 to 25.9)	
1100	(23 to 25.4)	
1200	(23 to 25.3)	
1400	(23 to 25.2)	
1500		

Tair °C	27.22	Air Temp, Elkins WV - Degree C
CCF	36	Cloud Cover Factor, Elkins WV
T7	17.70	River Temp Sang Run @700
T9	--	River Temp Sang Run @900
T11	--	River Temp Sang Run @1100
T12	--	River Temp Sang Run @1200
T14	--	River Temp Sang Run @1400
T15	--	River Temp Sang Run @1500
Q	347.00	River Flow at Oakland

81
PTCLDY

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

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

Simulate a Re

280 = CFS River Flow at Oakland

June 26, 2015

Print Info for

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

Tair C	25.56	Air Temp, Elkins WV - Degree C	78	Air Temp, Elkins WV - Degree F
CCF	100	Cloud Cover Factor, Elkins WV	RAIN	Cloud Cover, Elkins WV
T7	15.30	River Temp Sang Run @700		
T9	-	River Temp Sang Run @900		
T11	-	River Temp Sang Run @1100		
T12	-	River Temp Sang Run @1200		
T14	-	River Temp Sang Run @1400		
T15	-	River Temp Sang Run @1500		
Q	280.00	River Flow at Oakland		

R. McLean
6/26/15

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

Simulate a R2

248 = CFS River Flow at Oakland

June 27, 2015

Print Info for

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

Tair °C	25.56	Air Temp, Elkins WV - Degree C	78	Air Temp, Elkins WV - Degree F
CCF	100	Cloud Cover Factor, Elkins WV	RAIN	Cloud Cover, Elkins WV
T7	14.70	River Temp Sang Run @700		
T9	-	River Temp Sang Run @900		
T11	--	River Temp Sang Run @1100		
T12	-	River Temp Sang Run @1200		
T14	--	River Temp Sang Run @1400		
T15	-	River Temp Sang Run @1500		
Q	248.00	River Flow at Oakland		

R. Nelson 6/27/15

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

Simulate a Ra

1270 = CFS River Flow at Oakland

June 28, 2015

Print Info for

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

Tair °C	17.78	Air Temp, Elkins WV - Degree C	64	Air Temp, Elkins WV - Degree F
CCF	64	Cloud Cover Factor, Elkins WV	SHWRS	Cloud Cover, Elkins WV
T7	No Data	River Temp Sang Run @700		
T9	-	River Temp Sang Run @900		
T11	-	River Temp Sang Run @1100		
T12	-	River Temp Sang Run @1200		
T14	-	River Temp Sang Run @1400		
T15	-	River Temp Sang Run @1500		
Q	1270.00	River Flow at Oakland		

6/28/15

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

Simulate a R:

752 = CFS River Flow at Oakland

June 29, 2015

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

Print Info for

Tair °C	25.00	Air Temp, Elkins WV - Degree C	77	Air Temp, Elkins WV - Degree F
CCF	100	Cloud Cover Factor, Elkins WV	CLOUDY	Cloud Cover, Elkins WV
T7	No Data	River Temp Sang Run @700		
T9	--	River Temp Sang Run @900		
T11	--	River Temp Sang Run @1100		
T12	--	River Temp Sang Run @1200		
T14	--	River Temp Sang Run @1400		
T15	--	River Temp Sang Run @1500		
Q	752.00	River Flow at Oakland		

WWR canceled

Riversville > 1300 CFS

Handwritten signatures and initials, including a large signature at the top and another at the bottom.

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

Simulate a Re

501 = CFS River Flow at Oakland

June 30, 2015

Print Info for

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	19.97 (23 to 26.4)	Temperature Plan not Required Today - Flow Exceeds 150 CFS
0900	(23 to 25.9)	
1100	(23 to 25.4)	
1200	(23 to 25.3)	
1400	(23 to 25.2)	
1500		

Tair °C	26.11	Air Temp, Elkins WV - Degree C	79	Air Temp, Elkins WV - Degree F
CCF	100	Cloud Cover Factor, Elkins WV	TSTRMS	Cloud Cover, Elkins WV
T7	15.80	River Temp Sang Run @700		
T9	--	River Temp Sang Run @900		
T11	--	River Temp Sang Run @1100		
T12	--	River Temp Sang Run @1200		
T14	--	River Temp Sang Run @1400		
T15	--	River Temp Sang Run @1500		
Q	501.00	River Flow at Oakland		

June 2015 Sang Run Temperature Recorder Data

Station Name

Sangrun

5/31/2015	23:50:00	20.19
6/1/2015	0:00:00	20.15
6/1/2015	0:10:00	20.11
6/1/2015	0:20:00	20.09
6/1/2015	0:30:00	20.07
6/1/2015	0:40:00	20.04
6/1/2015	0:50:00	20.01
6/1/2015	1:00:00	19.99
6/1/2015	1:10:00	19.96
6/1/2015	1:20:00	19.94
6/1/2015	1:30:00	19.91
6/1/2015	1:40:00	19.88
6/1/2015	1:50:00	19.85
6/1/2015	2:00:00	19.82
6/1/2015	2:10:00	19.81
6/1/2015	2:20:00	19.78
6/1/2015	2:30:00	19.75
6/1/2015	2:40:00	19.73
6/1/2015	2:50:00	19.70
6/1/2015	3:00:00	19.69
6/1/2015	3:10:00	19.66
6/1/2015	3:20:00	19.64
6/1/2015	3:30:00	19.61
6/1/2015	3:40:00	19.59
6/1/2015	3:50:00	19.56
6/1/2015	4:00:00	19.54
6/1/2015	4:10:00	19.53
6/1/2015	4:20:00	19.50
6/1/2015	4:30:00	19.48
6/1/2015	4:40:00	19.46
6/1/2015	4:50:00	19.44
6/1/2015	5:00:00	19.42
6/1/2015	5:10:00	19.40
6/1/2015	5:20:00	19.39
6/1/2015	5:30:00	19.37
6/1/2015	5:40:00	19.35
6/1/2015	5:50:00	19.33
6/1/2015	6:00:00	19.31
6/1/2015	6:10:00	19.30
6/1/2015	6:20:00	19.28
6/1/2015	6:30:00	19.26
6/1/2015	6:40:00	19.24
6/1/2015	6:50:00	19.23
6/1/2015	7:00:00	19.22

6/1/2015	7:10:00	19.22
6/1/2015	7:20:00	19.21
6/1/2015	7:30:00	19.20
6/1/2015	7:40:00	19.18
6/1/2015	7:50:00	19.18
6/1/2015	8:00:00	19.19
6/1/2015	8:10:00	19.21
6/1/2015	8:20:00	19.22
6/1/2015	8:30:00	19.22
6/1/2015	8:40:00	19.22
6/1/2015	8:50:00	19.24
6/1/2015	9:00:00	19.24
6/1/2015	9:10:00	19.25
6/1/2015	9:20:00	19.28
6/1/2015	9:30:00	19.30
6/1/2015	9:40:00	19.31
6/1/2015	9:50:00	19.34
6/1/2015	10:00:00	19.35
6/1/2015	10:10:00	19.37
6/1/2015	10:20:00	19.38
6/1/2015	10:30:00	19.41
6/1/2015	10:40:00	19.44
6/1/2015	10:50:00	19.47
6/1/2015	11:00:00	19.52
6/1/2015	11:10:00	19.57
6/1/2015	11:20:00	19.59
6/1/2015	11:30:00	19.66
6/1/2015	11:40:00	19.74
6/1/2015	11:50:00	19.76
6/1/2015	12:00:00	19.77
6/1/2015	12:10:00	19.81
6/1/2015	12:20:00	19.82
6/1/2015	12:30:00	19.81
6/1/2015	12:40:00	19.85
6/1/2015	12:50:00	19.84
6/1/2015	13:00:00	19.75
6/1/2015	13:10:00	18.37
6/1/2015	13:20:00	16.29
6/1/2015	13:30:00	15.77
6/1/2015	13:40:00	15.41
6/1/2015	13:50:00	15.20
6/1/2015	14:00:00	15.05
6/1/2015	14:10:00	14.97
6/1/2015	14:20:00	14.93
6/1/2015	14:30:00	14.88
6/1/2015	14:40:00	14.87

6/1/2015	14:50:00	14.89
6/1/2015	15:00:00	14.90
6/1/2015	15:10:00	14.89
6/1/2015	15:20:00	14.91
6/1/2015	15:30:00	14.92
6/1/2015	15:40:00	14.92
6/1/2015	15:50:00	14.97
6/1/2015	16:00:00	15.03
6/1/2015	16:10:00	15.13
6/1/2015	16:20:00	15.22
6/1/2015	16:30:00	15.30
6/1/2015	16:40:00	15.39
6/1/2015	16:50:00	15.48
6/1/2015	17:00:00	15.57
6/1/2015	17:10:00	15.66
6/1/2015	17:20:00	15.74
6/1/2015	17:30:00	15.79
6/1/2015	17:40:00	15.84
6/1/2015	17:50:00	15.88
6/1/2015	18:00:00	15.92
6/1/2015	18:10:00	16.00
6/1/2015	18:20:00	16.18
6/1/2015	18:30:00	16.49
6/1/2015	18:40:00	16.82
6/1/2015	18:50:00	17.14
6/1/2015	19:00:00	17.41
6/1/2015	19:10:00	17.65
6/1/2015	19:20:00	17.85
6/1/2015	19:30:00	18.02
6/1/2015	19:40:00	18.15
6/1/2015	19:50:00	18.26
6/1/2015	20:00:00	18.35
6/1/2015	20:10:00	18.42
6/1/2015	20:20:00	18.49
6/1/2015	20:30:00	18.55
6/1/2015	20:40:00	18.57
6/1/2015	20:50:00	18.59
6/1/2015	21:00:00	18.62
6/1/2015	21:10:00	18.62
6/1/2015	21:20:00	18.60
6/1/2015	21:30:00	18.60
6/1/2015	21:40:00	18.57
6/1/2015	21:50:00	18.57
6/1/2015	22:00:00	18.54
6/1/2015	22:10:00	18.51
6/1/2015	22:20:00	18.49

6/1/2015	22:30:00	18.46
6/1/2015	22:40:00	18.44
6/1/2015	22:50:00	18.42
6/1/2015	23:00:00	18.39
6/1/2015	23:10:00	18.36
6/1/2015	23:20:00	18.33
6/1/2015	23:30:00	18.30
6/1/2015	23:40:00	18.28
6/1/2015	23:50:00	18.26
6/2/2015	0:00:00	18.23
6/2/2015	0:10:00	18.20
6/2/2015	0:20:00	18.17
6/2/2015	0:30:00	18.14
6/2/2015	0:40:00	18.12
6/2/2015	0:50:00	18.10
6/2/2015	1:00:00	18.07
6/2/2015	1:10:00	18.05
6/2/2015	1:20:00	18.02
6/2/2015	1:30:00	18.00
6/2/2015	1:40:00	17.97
6/2/2015	1:50:00	17.94
6/2/2015	2:00:00	17.91
6/2/2015	2:10:00	17.88
6/2/2015	2:20:00	17.85
6/2/2015	2:30:00	17.82
6/2/2015	2:40:00	17.79
6/2/2015	2:50:00	17.75
6/2/2015	3:00:00	17.71
6/2/2015	3:10:00	17.69
6/2/2015	3:20:00	17.67
6/2/2015	3:30:00	17.64
6/2/2015	3:40:00	17.61
6/2/2015	3:50:00	17.61
6/2/2015	4:00:00	17.57
6/2/2015	4:10:00	17.54
6/2/2015	4:20:00	17.50
6/2/2015	4:30:00	17.47
6/2/2015	4:40:00	17.44
6/2/2015	4:50:00	17.41
6/2/2015	5:00:00	17.39
6/2/2015	5:10:00	17.36
6/2/2015	5:20:00	17.33
6/2/2015	5:30:00	17.31
6/2/2015	5:40:00	17.28
6/2/2015	5:50:00	17.26
6/2/2015	6:00:00	17.23

6/2/2015	6:10:00	17.21
6/2/2015	6:20:00	17.18
6/2/2015	6:30:00	17.15
6/2/2015	6:40:00	17.13
6/2/2015	6:50:00	17.12
6/2/2015	7:00:00	17.10
6/2/2015	7:10:00	17.08
6/2/2015	7:20:00	17.07
6/2/2015	7:30:00	17.05
6/2/2015	7:40:00	17.04
6/2/2015	7:50:00	17.05
6/2/2015	8:00:00	17.04
6/2/2015	8:10:00	17.05
6/2/2015	8:20:00	17.04
6/2/2015	8:30:00	17.04
6/2/2015	8:40:00	17.05
6/2/2015	8:50:00	17.05
6/2/2015	9:00:00	17.08
6/2/2015	9:10:00	17.07
6/2/2015	9:20:00	17.08
6/2/2015	9:30:00	17.09
6/2/2015	9:40:00	17.13
6/2/2015	9:50:00	17.15
6/2/2015	10:00:00	17.17
6/2/2015	10:10:00	17.19
6/2/2015	10:20:00	17.22
6/2/2015	10:30:00	17.25
6/2/2015	10:40:00	17.29
6/2/2015	10:50:00	17.35
6/2/2015	11:00:00	17.37
6/2/2015	11:10:00	17.40
6/2/2015	11:20:00	17.44
6/2/2015	11:30:00	17.46
6/2/2015	11:40:00	17.50
6/2/2015	11:50:00	17.53
6/2/2015	12:00:00	17.56
6/2/2015	12:10:00	17.59
6/2/2015	12:20:00	17.62
6/2/2015	12:30:00	17.65
6/2/2015	12:40:00	17.69
6/2/2015	12:50:00	17.73
6/2/2015	13:00:00	17.75
6/2/2015	13:10:00	17.78
6/2/2015	13:20:00	17.78
6/2/2015	13:30:00	17.80
6/2/2015	13:40:00	17.82

6/2/2015	13:50:00	17.82
6/2/2015	14:00:00	17.85
6/2/2015	14:10:00	17.86
6/2/2015	14:20:00	17.87
6/2/2015	14:30:00	17.90
6/2/2015	14:40:00	17.89
6/2/2015	14:50:00	17.94
6/2/2015	15:00:00	17.98
6/2/2015	15:10:00	18.05
6/2/2015	15:20:00	18.08
6/2/2015	15:30:00	18.10
6/2/2015	15:40:00	18.17
6/2/2015	15:50:00	18.17
6/2/2015	16:00:00	18.18
6/2/2015	16:10:00	18.20
6/2/2015	16:20:00	18.21
6/2/2015	16:30:00	18.22
6/2/2015	16:40:00	18.24
6/2/2015	16:50:00	18.23
6/2/2015	17:00:00	18.23
6/2/2015	17:10:00	18.20
6/2/2015	17:20:00	18.19
6/2/2015	17:30:00	18.19
6/2/2015	17:40:00	18.16
6/2/2015	17:50:00	18.13
6/2/2015	18:00:00	18.11
6/2/2015	18:10:00	18.10
6/2/2015	18:20:00	18.09
6/2/2015	18:30:00	18.07
6/2/2015	18:40:00	18.05
6/2/2015	18:50:00	18.04
6/2/2015	19:00:00	18.02
6/2/2015	19:10:00	17.98
6/2/2015	19:20:00	17.96
6/2/2015	19:30:00	17.91
6/2/2015	19:40:00	17.88
6/2/2015	19:50:00	17.84
6/2/2015	20:00:00	17.80
6/2/2015	20:10:00	17.76
6/2/2015	20:20:00	17.72
6/2/2015	20:30:00	17.68
6/2/2015	20:40:00	17.64
6/2/2015	20:50:00	17.61
6/2/2015	21:00:00	17.57
6/2/2015	21:10:00	17.54
6/2/2015	21:20:00	17.50

6/2/2015	21:30:00	17.47
6/2/2015	21:40:00	17.44
6/2/2015	21:50:00	17.41
6/2/2015	22:00:00	17.38
6/2/2015	22:10:00	17.35
6/2/2015	22:20:00	17.32
6/2/2015	22:30:00	17.29
6/2/2015	22:40:00	17.26
6/2/2015	22:50:00	17.23
6/2/2015	23:00:00	17.21
6/2/2015	23:10:00	17.19
6/2/2015	23:20:00	17.17
6/2/2015	23:30:00	17.14
6/2/2015	23:40:00	17.13
6/2/2015	23:50:00	17.11
6/3/2015	0:00:00	17.08
6/3/2015	0:10:00	17.06
6/3/2015	0:20:00	17.04
6/3/2015	0:30:00	17.00
6/3/2015	0:40:00	16.97
6/3/2015	0:50:00	16.95
6/3/2015	1:00:00	16.93
6/3/2015	1:10:00	16.90
6/3/2015	1:20:00	16.88
6/3/2015	1:30:00	16.86
6/3/2015	1:40:00	16.83
6/3/2015	1:50:00	16.80
6/3/2015	2:00:00	16.78
6/3/2015	2:10:00	16.76
6/3/2015	2:20:00	16.74
6/3/2015	2:30:00	16.71
6/3/2015	2:40:00	16.69
6/3/2015	2:50:00	16.67
6/3/2015	3:00:00	16.63
6/3/2015	3:10:00	16.60
6/3/2015	3:20:00	16.57
6/3/2015	3:30:00	16.56
6/3/2015	3:40:00	16.54
6/3/2015	3:50:00	16.52
6/3/2015	4:00:00	16.50
6/3/2015	4:10:00	16.47
6/3/2015	4:20:00	16.45
6/3/2015	4:30:00	16.44
6/3/2015	4:40:00	16.42
6/3/2015	4:50:00	16.39
6/3/2015	5:00:00	16.37

6/3/2015	5:10:00	16.36
6/3/2015	5:20:00	16.34
6/3/2015	5:30:00	16.30
6/3/2015	5:40:00	16.28
6/3/2015	5:50:00	16.26
6/3/2015	6:00:00	16.23
6/3/2015	6:10:00	16.21
6/3/2015	6:20:00	16.20
6/3/2015	6:30:00	16.18
6/3/2015	6:40:00	16.15
6/3/2015	6:50:00	16.14
6/3/2015	7:00:00	16.11
6/3/2015	7:10:00	16.09
6/3/2015	7:20:00	16.10
6/3/2015	7:30:00	16.09
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6/30/2015	6:00:00	15.89
6/30/2015	6:10:00	15.89
6/30/2015	6:20:00	15.87
6/30/2015	6:30:00	15.87
6/30/2015	6:40:00	15.85
6/30/2015	6:50:00	15.84
6/30/2015	7:00:00	15.84
6/30/2015	7:10:00	15.84
6/30/2015	7:20:00	15.84
6/30/2015	7:30:00	15.84
6/30/2015	7:40:00	15.84
6/30/2015	7:50:00	15.85
6/30/2015	8:00:00	15.86
6/30/2015	8:10:00	15.88
6/30/2015	8:20:00	15.90
6/30/2015	8:30:00	15.92
6/30/2015	8:40:00	15.94

6/30/2015	8:50:00	15.96
6/30/2015	9:00:00	15.98
6/30/2015	9:10:00	16.01
6/30/2015	9:20:00	16.04
6/30/2015	9:30:00	16.07
6/30/2015	9:40:00	16.10
6/30/2015	9:50:00	16.16
6/30/2015	10:00:00	16.20
6/30/2015	10:10:00	16.22
6/30/2015	10:20:00	16.23
6/30/2015	10:30:00	16.25
6/30/2015	10:40:00	16.28
6/30/2015	10:50:00	16.38
6/30/2015	11:00:00	16.43
6/30/2015	11:10:00	16.50
6/30/2015	11:20:00	16.60
6/30/2015	11:30:00	16.66
6/30/2015	11:40:00	16.76
6/30/2015	11:50:00	16.87
6/30/2015	12:00:00	16.98
6/30/2015	12:10:00	17.06
6/30/2015	12:20:00	17.11
6/30/2015	12:30:00	17.23
6/30/2015	12:40:00	17.32
6/30/2015	12:50:00	17.36
6/30/2015	13:00:00	17.42
6/30/2015	13:10:00	17.51
6/30/2015	13:20:00	17.64
6/30/2015	13:30:00	17.77
6/30/2015	13:40:00	17.89
6/30/2015	13:50:00	17.99
6/30/2015	14:00:00	18.04
6/30/2015	14:10:00	18.12
6/30/2015	14:20:00	18.18
6/30/2015	14:30:00	18.26
6/30/2015	14:40:00	18.37
6/30/2015	14:50:00	18.45
6/30/2015	15:00:00	18.53
6/30/2015	15:10:00	18.59
6/30/2015	15:20:00	18.59
6/30/2015	15:30:00	18.45
6/30/2015	15:40:00	18.16
6/30/2015	15:50:00	16.80
6/30/2015	16:00:00	16.65
6/30/2015	16:10:00	16.75
6/30/2015	16:20:00	16.74

6/30/2015	16:30:00	16.74
6/30/2015	16:40:00	16.75
6/30/2015	16:50:00	16.78
6/30/2015	17:00:00	16.80
6/30/2015	17:10:00	16.78
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6/30/2015	17:40:00	16.66
6/30/2015	17:50:00	16.60
6/30/2015	18:00:00	16.54
6/30/2015	18:10:00	16.48
6/30/2015	18:20:00	16.44
6/30/2015	18:30:00	16.39
6/30/2015	18:40:00	16.32
6/30/2015	18:50:00	16.28
6/30/2015	19:00:00	16.25
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6/30/2015	19:20:00	16.16
6/30/2015	19:30:00	16.11
6/30/2015	19:40:00	16.06
6/30/2015	19:50:00	16.01
6/30/2015	20:00:00	16.00
6/30/2015	20:10:00	15.97
6/30/2015	20:20:00	15.93
6/30/2015	20:30:00	15.92
6/30/2015	20:40:00	15.88
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6/30/2015	21:10:00	15.76
6/30/2015	21:20:00	15.72
6/30/2015	21:30:00	15.68
6/30/2015	21:40:00	15.64
6/30/2015	21:50:00	15.57
6/30/2015	22:00:00	15.54
6/30/2015	22:10:00	15.52
6/30/2015	22:20:00	15.50
6/30/2015	22:30:00	15.50
6/30/2015	22:40:00	15.50
6/30/2015	22:50:00	15.65
6/30/2015	23:00:00	16.08
6/30/2015	23:10:00	16.42
6/30/2015	23:20:00	16.63
6/30/2015	23:30:00	16.83
6/30/2015	23:40:00	16.95
6/30/2015	23:50:00	17.03
7/1/2015	0:00:00	17.10

