

Brookfield



**DEEP CREEK STATION
MARYLAND WATER APPROPRIATION
PERMIT
NO. GA1992S009 (08)
TEMPERATURE MONITORING REPORT
JULY 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: 301-387-6616
Fax: 301-387-5809

Via USP Ground

August 5, 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
July 2015**

Dear Mr. Grace:

Temperature in the Youghiogheny River at the Sang Run Bridge temperature monitor exceeded 25°C on three occasions in July. The attached Deep Creek Station Exceedance Table and the Summary of Excursions provide additional details.

TERs were conducted on July 26, 28, 29 and 30. 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 July 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: July 2015 Sang Run Temperature Report

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

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

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

DATE	DURATION	MAXIMUM
July 26, 2015	15:20 – 16:20	25.37
July 28, 2015	14:00 – 14:30	25.24
July 30, 2015	14:00 – 14:20	25.21

**Summary of Temperature Excursions
July 1, 2015 to July 31, 2015**

Date	Duration	Max Temp (°C)	Cause	Remarks
July 26, 2015	1 hours 00 minutes	25.37	Model Uncertainty	The temperature protocol conducted on Sunday, July 26 called for a one hour release ASAP not later than 14:30. A release using both units at full gate opening was made from 14:30 - 16:00.
July 28, 2015	0 hours 30 minutes	25.24	Model Uncertainty	The temperature protocol conducted on Tuesday, July 28 called for a two hour release to commence at 12:30. A release using both units at full gate opening was made from 12:30 - 14:30.
July 30, 2015	0 hours 20 minutes	25.21	Model Uncertainty	The temperature protocol conducted on Thursday, July 30 called for a release ASAP not later than 12:30 for one hour. A release using both units at full gate opening was made from 12:15 - 13:30.

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

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

Simulate a R:

393 = CFS River Flow at Oakland

July 1, 2015

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	20.07 (23 to 26.4)	Temperature Plan not Required Today - Flow Exceeds 150 CFS
0900	-- (23 to 25.9)	--
1100	-- (23 to 25.4)	--
1200	-- (23 to 25.3)	--
1400	-- (23 to 25.2)	--
1500	--	--

Print info for

Tair °C	25.56	Air Temp, Elkins WV - Degree C	78	Air Temp, Elkins WV - Degree F
CCF	100	Cloud Cover Factor, Elkins WV	TSTRMS	Cloud Cover, Elkins WV
T7	16.60	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	393.00	River Flow at Oakland		

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

Simulate a Re

276 = CFS River Flow at Oakland

July 2, 2015

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	19.85 (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	--	

Print Info for

Tair °C	24.44	Air Temp, Elkins WV - Degree C	76	Air Temp, Elkins WV - Degree F
CCF	100	Cloud Cover Factor, Elkins WV	TSTRMS	Cloud Cover, Elkins WV
T7	16.20	River Temp Sang Run @700		
T9	--	River Temp Sang Run @900		
T11	--	River Temp Sang Run @1100		
T12	--	River Temp Sang Run @1200		
T14	--	River Temp Sang Run @1400		
T15	--	River Temp Sang Run @1500		
Q	276.00	River Flow at Oakland		

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

Simulate a Re

218 = CFS River Flow at Oakland

July 3, 2015

Print Info for

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	16.2 (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	23.89	Air Temp, Elkins WV - Degree C	75	Air Temp, Elkins WV - Degree F
CCF	100	Cloud Cover Factor, Elkins WV	CLOUDY	Cloud Cover, Elkins WV
T7	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	218.00	River Flow at Oakland		

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

Simulate a Re

241 = CFS River Flow at Oakland

July 4, 2015

Print Info for

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	20.43 (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	24.44	Air Temp, Elkins WV - Degree C	76	Air Temp, Elkins WV - Degree F
CCF	64	Cloud Cover Factor, Elkins WV	SHWRS	Cloud Cover, Elkins WV
T7	16.70	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	241.00	River Flow at Oakland		

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

Simulate a R2

260 = CFS River Flow at Oakland

July 5, 2015

Print Info for

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	21.39 (23 to 26.4)	Temperature Plan not Required Today - Flow Exceeds 150 CFS
0900	-- (23 to 25.9)	--
1100	-- (23 to 25.4)	--
1200	-- (23 to 25.3)	--
1400	-- (23 to 25.2)	--
1500	--	--

Tair °C	27.22	Air Temp, Elkins WV - Degree C	81	Air Temp, Elkins WV - Degree F
CCF	64	Cloud Cover Factor, Elkins WV	SHWRS	Cloud Cover, Elkins WV
T7	16.90	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	260.00	River Flow at Oakland		

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

Simulate a Re

564 = CFS River Flow at Oakland

July 6, 2015

Print Info for

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	20.97 (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	24.44	Air Temp, Elkins WV - Degree C	76	Air Temp, Elkins WV - Degree F
CCF	64	Cloud Cover Factor, Elkins WV	SHWRS	Cloud Cover, Elkins WV
T7	18.30	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		

J. M. O'Neil

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

Simulate a Re

532 = CFS River Flow at Oakland

July 7, 2015

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	22.93 (23 to 28.4)	Temperature Plan not Required Today - Flow Exceeds 150 CFS
0900	-- (23 to 25.9)	
1100	-- (23 to 25.4)	
1200	-- (23 to 25.3)	
1400	-- (23 to 25.2)	
1500	--	

Print Info for

Tair °C	28.89	Air Temp, Elkins WV - Degree C	84	Air Temp, Elkins WV - Degree F
CCF	38	Cloud Cover Factor, Elkins WV	HAZE	Cloud Cover, 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	532.00	River Flow at Oakland		

Joy M. Q. ad
R. M. ... 7/7/15

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

Simulate a Re

301 = CFS River Flow at Oakland

July 8, 2015

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	20.67 (23 to 26.4)	Temperature Plan not Required Today - Flow Exceeds 150 CFS
0900	---	
1100	---	
1200	---	
1400	---	
1500	---	

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	RAIN	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	301.00	River Flow at Oakland		

Jay MO
R. McKenna

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

Simulate a Re

766 = CFS River Flow at Oakland

July 9, 2015

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	21.66 (23 to 26.4)	Temperature Plan not Required Today - Flow Exceeds 150 CFS
0900	(23 to 25.9)	
1100	(23 to 25.4)	
1200	(23 to 25.3)	
1400	(23 to 25.2)	
1500		

Print Info for

Tair °C	27.22	Air Temp, Elkins WV - Degree C	81	Air Temp, Elkins WV - Degree F
CCF	64	Cloud Cover Factor, Elkins WV	SHWRS	Cloud Cover, Elkins WV
T7	17.70	River Temp Sang Run @700		
T9	--	River Temp Sang Run @900		
T11	--	River Temp Sang Run @1100		
T12	--	River Temp Sang Run @1200		
T14	--	River Temp Sang Run @1400		
T15	--	River Temp Sang Run @1500		
Q	786.00	River Flow at Oakland		

Jay McDevitt
R. Melton

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

Simulate a Re

1660 = CFS River Flow at Oakland

July 10, 2016

Print Info for

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	20.07 (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	23.89	Air Temp, Elkins WV - Degree C
CCF	100	Cloud Cover Factor, Elkins WV
T7	18.20	River Temp Sang Run @700
T9	--	River Temp Sang Run @900
T11	--	River Temp Sang Run @1100
T12	--	River Temp Sang Run @1200
T14	--	River Temp Sang Run @1400
T15	--	River Temp Sang Run @1500
Q	1660.00	River Flow at Oakland

75
OVRCAST

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

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

Simulate a Re

814 = CFS River Flow at Oakland

July 11, 2015

Print Info for

Time	Predicted Maximum River Water Temperature Degree C	Beep-Craek Action
0700	20.31 (23 to 26.4)	Temperature Plan not Required Today - Flow Exceeds 150 CFS
0900	(23 to 25.9)	--
1100	(23 to 25.4)	--
1200	(23 to 25.3)	--
1400	(23 to 25.2)	--
1500		--

Tair °C	25.56	Air Temp, Elkins WV - Degree C	78	Air Temp, Elkins WV - Degree F
CCF	100	Cloud Cover Factor, Elkins WV	OVRCAST	Cloud Cover, Elkins WV
T7	17.30	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	814.00	River Flow at Oakland		

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

Simulate a Re

477 = CFS River Flow at Oakland

July 12, 2016

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	24.44	Air Temp, Elkins WV - Degree C
CCF	100	Cloud Cover Factor, Elkins WV
T7	17.20	River Temp Sang Run @700
T9	--	River Temp Sang Run @900
T11	--	River Temp Sang Run @1100
T12	--	River Temp Sang Run @1200
T14	--	River Temp Sang Run @1400
T15	--	River Temp Sang Run @1500
Q	477.00	River Flow at Oakland

76
RAIN

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

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

Simulate a Re

328 = CFS River Flow at Oakland

July 13, 2015

Print Info for

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	20.87 (23 to 26.4)	Temperature Plan not Required Today - Flow Exceeds 150 CFS
0900	-- (23 to 25.9)	
1100	-- (23 to 25.4)	
1200	-- (23 to 25.3)	
1400	-- (23 to 25.2)	
1500	--	

Tair °C	26.67	Air Temp, Elkins WV - Degree C	80	Air Temp, Elkins WV - Degree F
CCF	100	Cloud Cover Factor, Elkins WV	RAIN	Cloud Cover, Elkins WV
T7	17.90	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	328.00	River Flow at Oakland		

rwj

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

Simulate a Re

426 = CFS River Flow at Oakland

July 14, 2015

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	21.13 (23 to 26.4)	Temperature Plan not Required Today - Flow Exceeds 150 CFS
0900	-- (23 to 25.9)	--
1100	-- (23 to 25.4)	--
1200	-- (23 to 25.3)	--
1400	-- (23 to 25.2)	--
1500	--	--

Print Info for

Tair °C	28.33	Air Temp, Elkins WV - Degree C
CCF	100	Cloud Cover Factor, 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	426.00	River Flow at Oakland

83
TSTRMS

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

RMS

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

Simulate a Re

362 = CFS River Flow at Oakland

July 15, 2015

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	20.96 (23 to 26.4)	Temperature Plan not Required Today - Flow Exceeds 150 CFS
0900	---	
1100	---	
1200	---	
1400	---	
1500	---	

Print Info for

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	18.80	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	362.00	River Flow at Oakland		

OPERATOR: *[Signature]*

[Handwritten initials]

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

Simulate a Re

337 = CFS River Flow at Oakland

July 16, 2015

Print Info for

Time	Predicted Maximum River Water Temperature Degree C	Deep Greak Action
0700	23.04 (23 to 28.4)	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	1	Cloud Cover Factor, Elkins WV	SUNNY	Cloud Cover, Elkins WV
T7	17.70	River Temp Sang Run @700		
T9	--	River Temp Sang Run @900		
T11	--	River Temp Sang Run @1100		
T12	--	River Temp Sang Run @1200		
T14	--	River Temp Sang Run @1400		
T15	--	River Temp Sang Run @1500		
Q	337.00	River Flow at Oakland		

KRJ

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

Simulate a Re

244 = CFS River Flow at Oakland

July 17, 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		

Print Info for

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	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	244.00	River Flow at Oakland		

Handwritten signature and initials: [Signature] ank

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

Simulate a Re

197 = CFS River Flow at Oakland

July 18, 2015

Print Info for

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	(23 to 28.4)	Temperature Plan not Required Today - Flow Exceeds 150 CFS
0900	(23 to 25.9)	
1100	(23 to 25.4)	
1200	(23 to 25.3)	
1400	(23 to 25.2)	
1500		

Tair °C	30.56	Air Temp, Elkins WV - Degree C	87	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	197.00	River Flow at Oakland		

B. J. [Signature] WWR

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

Simulate a Re

181 = CFS River Flow at Oakland

July 18, 2015

Print Info for

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	23.62 (23 to 25.4)	Temperature Plan not Required Today - Flow Exceeds 150 CFS
0900	-- (23 to 25.9)	
1100	-- (23 to 25.4)	
1200	-- (23 to 25.3)	
1400	-- (23 to 25.2)	
1500	--	

Tair °C	31.11	Air Temp, Elkins WV - Degree C	88	Air Temp, Elkins WV - Degree F
CCF	64	Cloud Cover Factor, Elkins WV	SHWRS	Cloud Cover, Elkins WV
T7	19.80	River Temp Sang Run @700		
T9	--	River Temp Sang Run @900		
T11	--	River Temp Sang Run @1100		
T12	--	River Temp Sang Run @1200		
T14	--	River Temp Sang Run @1400		
T15	--	River Temp Sang Run @1500		
Q	181.00	River Flow at Oakland		

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

Simulate a Re

148 = CFS River Flow at Oakland

July 20, 2015

Print Info for

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	23.21 (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	31.11	Air Temp, Elkins WV - Degree C
CCF	100	Cloud Cover Factor, Elkins WV
T7	20.60	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	148.00	River Flow at Oakland

88
OVRCAST

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

WHITE WATER RELEASE
FROM 11a - 2p

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

Simulate a Re

124 = CFS River Flow at Oakland

July 21, 2015

Print Info for

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	23.08 (23 to 26.4)	Check Again at 0900
0900	21.90 (23 to 25.9)	Check Again at 1100
1100	24.89 (23 to 25.4)	Check Again at 1200
1200	24.65 (23 to 25.3)	Check Again at 1400
1400	24.22 (23 to 25.2)	Check Again at 1500
1500	23.98	Check Again Tomorrow at 0700

Tair °C	28.33	Air Temp, Elkins WV - Degree C	83	Air Temp, Elkins WV - Degree F
CCF	64	Cloud Cover Factor, Elkins WV	SHWRS	Cloud Cover, Elkins WV
T7	20.70	River Temp Sang Run @700		
T9	20.60	River Temp Sang Run @900		
T11	21.10	River Temp Sang Run @1100		
T12	21.50	River Temp Sang Run @1200		
T14	22.60	River Temp Sang Run @1400		
T15	23.00	River Temp Sang Run @1500		
Q	124.00	River Flow at Oakland		

OPERATOR: *D P Melle*

Shift Supervisor: *KLJ*

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

Simulate a Re

145 = CFS River Flow at Oakland

July 22, 2015

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	22.39 (23 to 26.4)	Check Again at 0900
0900	20.13 (23 to 25.9)	Check Again at 1100
1100	23.49 (23 to 25.4)	Check Again at 1200
1200	23.85 (23 to 25.3)	Check Again at 1400
1400	22.88 (23 to 25.2)	Check Again at 1500
1500	22.77	Check Again Tomorrow at 0700

Print Info for

Tair °C	28.33	Air Temp. Elkins WV - Degree C	83	Air Temp. Elkins WV - Degree F
CCF	64	Cloud Cover Factor, Elkins WV	SHWRS	Cloud Cover, Elkins WV
T7	18.80	River Temp Sang Run @700		
T9	18.60	River Temp Sang Run @900		
T11	18.90	River Temp Sang Run @1100		
T12	19.90	River Temp Sang Run @1200		
T14	20.90	River Temp Sang Run @1400		
T15	21.50	River Temp Sang Run @1500		
Q	145.00	River Flow at Oakland		

OPERATOR - *R. M. [Signature]*
R. M. [Signature] 7/22/15

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

Simulate a Re

103 = CFS River Flow at Oakland

July 23, 2015

Print Info for

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	22.96 (23 to 26.4)	Check Again at 0900
0900	22.71 (23 to 25.9)	Check Again at 1100
1100	23.92 (23 to 25.4)	Check Again at 1200
1200	24.07 (23 to 25.3)	Check Again at 1400
1400	24.98 (23 to 25.2)	Check Again at 1500
1500	24.75	Check Again Tomorrow at 0700

Tair °C	27.22	Air Temp, Elkins WV - Degree C
CCF	1	Cloud Cover Factor, Elkins WV
T7	18.00	River Temp Sang Run @700
T9	18.00	River Temp Sang Run @900
T11	18.60	River Temp Sang Run @1100
T12	19.60	River Temp Sang Run @1200
T14	22.40	River Temp Sang Run @1400
T15	23.20	River Temp Sang Run @1500
Q	103.00	River Flow at Oakland

81
SUNNY

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

OPERATOR: *QDM*
R. meker 7/23/15

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

Simulate a Re

85 = CFS River Flow at Oakland

July 24, 2015

Print Info for

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

Tair °C	27.22	Air Temp, Elkins WV - Degree C	81	Air Temp, Elkins WV - Degree F
CCF	1	Cloud Cover Factor, Elkins WV	SUNNY	Cloud Cover, Elkins WV
T7	No Data	River Temp Sang Run @700		
T9	--	River Temp Sang Run @800		
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	85.00	River Flow at Oakland		

Plot
5.5
7/24/15

op: *Jay M. O'Neil*

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

Simulate a R:

73 = CFS River Flow at Oakland

July 25, 2015

Print Info for

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	24.01 (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	28.89	Air Temp, Elkins WV - Degree C	84	Air Temp, Elkins WV - Degree F
CCF	36	Cloud Cover Factor, Elkins WV	PTSUNY	Cloud Cover, 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	73.00	River Flow at Oakland		

ant
S.S.

of.
Jay M. O'Leary

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

Simulate a Re

64 = CFS River Flow at Oakland

July 26, 2015

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	23.55 (23 to 26.4)	Check Again at 0900
0900	23.44 (23 to 25.9)	Check Again at 1100
1100	24.74 (23 to 25.4)	Check Again at 1200
1200	24.48 (23 to 25.3)	Check Again at 1400
1400	25.79 (23 to 25.2)	Release ASAP - not later than 1430 for 1 hour
1500	-	

Print Info for

Tair °C	27.78	Air Temp, Elkins WV - Degree C	82	Air Temp, Elkins WV - Degree F
CCF	64	Cloud Cover Factor, Elkins WV	SHWRS	Cloud Cover, Elkins WV
T7	18.50	River Temp Sang Run @700		
T9	18.60	River Temp Sang Run @900		
T11	19.90	River Temp Sang Run @1100		
T12	20.60	River Temp Sang Run @1200		
T14	23.40	River Temp Sang Run @1400		
T15	--	River Temp Sang Run @1500		
Q	64.00	River Flow at Oakland		

Paul
S.S.

cp: *Jay M. Bennett*

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

Simulate a R2

58 = CFS River Flow at Oakland

July 27, 2015

Print Info for

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

WHITE WATER RELEASE

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	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	58.00	River Flow at Oakland		

OPERATOR: *RJ Mella*

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

Simulate a Re

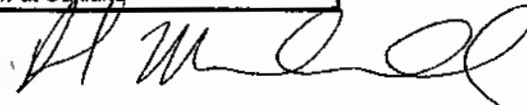
52 = CFS River Flow at Oakland

July 28, 2015

Print Info for

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	24.71 (23 to 26.4)	Check Again at 0900
0900	24.61 (23 to 25.9)	Check Again at 1100
1100	25.50 (23 to 25.4)	Release at 1230 for 2 Hours
1200	-- (23 to 25.3)	--
1400	-- (23 to 25.2)	--
1500	--	--

Tair °C	30.00	Air Temp, Elkins WV - Degree C	86	Air Temp, Elkins WV - Degree F
CCF	100	Cloud Cover Factor, Elkins WV	TSTRMS	Cloud Cover, Elkins WV
T7	20.40	River Temp Sang Run @700		
T9	20.50	River Temp Sang Run @900		
T11	21.50	River Temp Sang Run @1100		
T12	--	River Temp Sang Run @1200		
T14	--	River Temp Sang Run @1400		
T15	--	River Temp Sang Run @1500		
Q	52.00	River Flow at Oakland		

OPERATOR: 

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

Simulate a R:

50 = CFS River Flow at Oakland

July 29, 2015

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	24.95 (23 to 26.4)	Check Again at 0900
0900	24.79 (23 to 25.9)	Check Again at 1100
1100	24.23 (23 to 25.4)	Release at 1230 for 2 Hours
1200	-- (23 to 25.3)	--
1400	-- (23 to 25.2)	--
1500	--	--

Print Info for

Tair °C	30.00	Air Temp, Elkins WV - Degree C	86	Air Temp, Elkins WV - Degree F
CCF	100	Cloud Cover Factor, Elkins WV	TSTRMS	Cloud Cover, Elkins WV
T7	20.90	River Temp Sang Run @700		
T9	20.90	River Temp Sang Run @900		
T11	22.20	River Temp Sang Run @1100		
T12	--	River Temp Sang Run @1200		
T14	--	River Temp Sang Run @1400		
T15	--	River Temp Sang Run @1500		
Q	50.00	River Flow at Oakland		

OPERATOR: *JD M...*

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

Simulate a Re

48 = CFS River Flow at Oakland

July 30, 2015

Print Info for

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	24.96 (23 to 26.4)	Check Again at 0900
0900	25.00 (23 to 25.9)	Check Again at 1100
1100	24.88 (23 to 25.4)	Check Again at 1200
1200	25.37 (23 to 25.3)	Release ASAP - not later than 1230 for 1 hour
1400	-- (23 to 25.2)	--
1500	--	--

Tair °C	27.22	Air Temp, Elkins WV - Degree C	81	Air Temp, Elkins WV - Degree F
CCF	64	Cloud Cover Factor, Elkins WV	SHWRS	Cloud Cover, Elkins WV
T7	21.30	River Temp Sang Run @700		
T9	21.30	River Temp Sang Run @900		
T11	21.70	River Temp Sang Run @1100		
T12	22.70	River Temp Sang Run @1200		
T14	--	River Temp Sang Run @1400		
T15	--	River Temp Sang Run @1500		
Q	48.00	River Flow at Oakland		

OPERATOR: *[Handwritten Signature]*

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

46 = CFS River Flow at Oakland

July 31, 2015

Simulate a Re

Print Info for

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	25.49 (23 to 28.4)	Check Again at 0900
0900	- (23 to 25.9)	Input 0900 SANG RUN Temp
1100	- (23 to 25.4)	Input 0900 SANG RUN Temp
1200	- (23 to 25.3)	Input 0900 SANG RUN Temp
1400	- (23 to 25.2)	Input 0900 SANG RUN Temp
1500	-	Input 0900 SANG RUN Temp

Tair °C	27.22	Air Temp, Elkins WV - Degree C	81	Air Temp, Elkins WV - Degree F
CCF	1	Cloud Cover Factor, Elkins WV	SUNNY	Cloud Cover, Elkins WV
T7	19.10	River Temp Sang Run @700		
T9	--	River Temp Sang Run @900		
T11	--	River Temp Sang Run @1100		
T12	--	River Temp Sang Run @1200		
T14	--	River Temp Sang Run @1400		
T15	--	River Temp Sang Run @1500		
Q	46.00	River Flow at Oakland		

Whitewater release.

operator: *[Signature]*

July 2015 Sang Run Temperature Recorder Data

Station Name
Sangrun

6/30/2015	23:50:00	17.03
7/1/2015	0:00:00	17.10
7/1/2015	0:10:00	17.14
7/1/2015	0:20:00	17.16
7/1/2015	0:30:00	17.17
7/1/2015	0:40:00	17.18
7/1/2015	0:50:00	17.18
7/1/2015	1:00:00	17.17
7/1/2015	1:10:00	17.17
7/1/2015	1:20:00	17.16
7/1/2015	1:30:00	17.15
7/1/2015	1:40:00	17.14
7/1/2015	1:50:00	17.12
7/1/2015	2:00:00	17.11
7/1/2015	2:10:00	17.09
7/1/2015	2:20:00	17.09
7/1/2015	2:30:00	17.07
7/1/2015	2:40:00	17.06
7/1/2015	2:50:00	17.04
7/1/2015	3:00:00	17.03
7/1/2015	3:10:00	17.01
7/1/2015	3:20:00	16.99
7/1/2015	3:30:00	16.96
7/1/2015	3:40:00	16.94
7/1/2015	3:50:00	16.93
7/1/2015	4:00:00	16.91
7/1/2015	4:10:00	16.88
7/1/2015	4:20:00	16.86
7/1/2015	4:30:00	16.83
7/1/2015	4:40:00	16.81
7/1/2015	4:50:00	16.78
7/1/2015	5:00:00	16.76
7/1/2015	5:10:00	16.74
7/1/2015	5:20:00	16.73
7/1/2015	5:30:00	16.71
7/1/2015	5:40:00	16.69
7/1/2015	5:50:00	16.67
7/1/2015	6:00:00	16.65
7/1/2015	6:10:00	16.63
7/1/2015	6:20:00	16.63
7/1/2015	6:30:00	16.61
7/1/2015	6:40:00	16.60
7/1/2015	6:50:00	16.58

7/1/2015	7:00:00	16.58
7/1/2015	7:10:00	16.57
7/1/2015	7:20:00	16.56
7/1/2015	7:30:00	16.55
7/1/2015	7:40:00	16.55
7/1/2015	7:50:00	16.55
7/1/2015	8:00:00	16.56
7/1/2015	8:10:00	16.56
7/1/2015	8:20:00	16.55
7/1/2015	8:30:00	16.56
7/1/2015	8:40:00	16.55
7/1/2015	8:50:00	16.56
7/1/2015	9:00:00	16.58
7/1/2015	9:10:00	16.58
7/1/2015	9:20:00	16.60
7/1/2015	9:30:00	16.63
7/1/2015	9:40:00	16.64
7/1/2015	9:50:00	16.67
7/1/2015	10:00:00	16.69
7/1/2015	10:10:00	16.72
7/1/2015	10:20:00	16.75
7/1/2015	10:30:00	16.74
7/1/2015	10:40:00	16.74
7/1/2015	10:50:00	16.77
7/1/2015	11:00:00	16.81
7/1/2015	11:10:00	16.84
7/1/2015	11:20:00	16.89
7/1/2015	11:30:00	16.95
7/1/2015	11:40:00	17.04
7/1/2015	11:50:00	17.12
7/1/2015	12:00:00	17.17
7/1/2015	12:10:00	17.24
7/1/2015	12:20:00	17.29
7/1/2015	12:30:00	17.37
7/1/2015	12:40:00	17.43
7/1/2015	12:50:00	17.52
7/1/2015	13:00:00	17.62
7/1/2015	13:10:00	17.71
7/1/2015	13:20:00	17.87
7/1/2015	13:30:00	17.89
7/1/2015	13:40:00	17.88
7/1/2015	13:50:00	17.20
7/1/2015	14:00:00	16.23
7/1/2015	14:10:00	16.40
7/1/2015	14:20:00	16.37
7/1/2015	14:30:00	16.32

7/1/2015	14:40:00	16.25
7/1/2015	14:50:00	16.23
7/1/2015	15:00:00	16.23
7/1/2015	15:10:00	16.18
7/1/2015	15:20:00	16.12
7/1/2015	15:30:00	16.07
7/1/2015	15:40:00	16.06
7/1/2015	15:50:00	16.01
7/1/2015	16:00:00	15.95
7/1/2015	16:10:00	15.89
7/1/2015	16:20:00	15.89
7/1/2015	16:30:00	15.84
7/1/2015	16:40:00	15.86
7/1/2015	16:50:00	15.83
7/1/2015	17:00:00	15.81
7/1/2015	17:10:00	15.89
7/1/2015	17:20:00	15.94
7/1/2015	17:30:00	15.96
7/1/2015	17:40:00	15.96
7/1/2015	17:50:00	15.88
7/1/2015	18:00:00	15.85
7/1/2015	18:10:00	15.77
7/1/2015	18:20:00	15.73
7/1/2015	18:30:00	15.70
7/1/2015	18:40:00	15.68
7/1/2015	18:50:00	15.63
7/1/2015	19:00:00	15.61
7/1/2015	19:10:00	15.56
7/1/2015	19:20:00	15.53
7/1/2015	19:30:00	15.48
7/1/2015	19:40:00	15.45
7/1/2015	19:50:00	15.39
7/1/2015	20:00:00	15.35
7/1/2015	20:10:00	15.31
7/1/2015	20:20:00	15.30
7/1/2015	20:30:00	15.30
7/1/2015	20:40:00	15.28
7/1/2015	20:50:00	15.27
7/1/2015	21:00:00	15.26
7/1/2015	21:10:00	15.24
7/1/2015	21:20:00	15.21
7/1/2015	21:30:00	15.18
7/1/2015	21:40:00	15.16
7/1/2015	21:50:00	15.16
7/1/2015	22:00:00	15.16
7/1/2015	22:10:00	15.17

7/1/2015	22:20:00	15.20
7/1/2015	22:30:00	15.19
7/1/2015	22:40:00	15.26
7/1/2015	22:50:00	15.56
7/1/2015	23:00:00	15.90
7/1/2015	23:10:00	16.17
7/1/2015	23:20:00	16.33
7/1/2015	23:30:00	16.48
7/1/2015	23:40:00	16.59
7/1/2015	23:50:00	16.68
7/2/2015	0:00:00	16.75
7/2/2015	0:10:00	16.79
7/2/2015	0:20:00	16.82
7/2/2015	0:30:00	16.84
7/2/2015	0:40:00	16.86
7/2/2015	0:50:00	16.85
7/2/2015	1:00:00	16.85
7/2/2015	1:10:00	16.84
7/2/2015	1:20:00	16.83
7/2/2015	1:30:00	16.82
7/2/2015	1:40:00	16.80
7/2/2015	1:50:00	16.78
7/2/2015	2:00:00	16.77
7/2/2015	2:10:00	16.75
7/2/2015	2:20:00	16.74
7/2/2015	2:30:00	16.72
7/2/2015	2:40:00	16.70
7/2/2015	2:50:00	16.69
7/2/2015	3:00:00	16.66
7/2/2015	3:10:00	16.64
7/2/2015	3:20:00	16.63
7/2/2015	3:30:00	16.62
7/2/2015	3:40:00	16.58
7/2/2015	3:50:00	16.57
7/2/2015	4:00:00	16.55
7/2/2015	4:10:00	16.53
7/2/2015	4:20:00	16.51
7/2/2015	4:30:00	16.49
7/2/2015	4:40:00	16.47
7/2/2015	4:50:00	16.45
7/2/2015	5:00:00	16.43
7/2/2015	5:10:00	16.41
7/2/2015	5:20:00	16.39
7/2/2015	5:30:00	16.37
7/2/2015	5:40:00	16.35
7/2/2015	5:50:00	16.32

7/2/2015	6:00:00	16.31
7/2/2015	6:10:00	16.29
7/2/2015	6:20:00	16.27
7/2/2015	6:30:00	16.24
7/2/2015	6:40:00	16.24
7/2/2015	6:50:00	16.23
7/2/2015	7:00:00	16.22
7/2/2015	7:10:00	16.21
7/2/2015	7:20:00	16.20
7/2/2015	7:30:00	16.20
7/2/2015	7:40:00	16.20
7/2/2015	7:50:00	16.20
7/2/2015	8:00:00	16.20
7/2/2015	8:10:00	16.20
7/2/2015	8:20:00	16.20
7/2/2015	8:30:00	16.20
7/2/2015	8:40:00	16.22
7/2/2015	8:50:00	16.23
7/2/2015	9:00:00	16.25
7/2/2015	9:10:00	16.26
7/2/2015	9:20:00	16.28
7/2/2015	9:30:00	16.31
7/2/2015	9:40:00	16.33
7/2/2015	9:50:00	16.34
7/2/2015	10:00:00	16.35
7/2/2015	10:10:00	16.37
7/2/2015	10:20:00	16.39
7/2/2015	10:30:00	16.42
7/2/2015	10:40:00	16.48
7/2/2015	10:50:00	16.55
7/2/2015	11:00:00	16.62
7/2/2015	11:10:00	16.68
7/2/2015	11:20:00	16.74
7/2/2015	11:30:00	16.79
7/2/2015	11:40:00	16.83
7/2/2015	11:50:00	16.88
7/2/2015	12:00:00	16.94
7/2/2015	12:10:00	16.98
7/2/2015	12:20:00	17.03
7/2/2015	12:30:00	17.10
7/2/2015	12:40:00	17.17
7/2/2015	12:50:00	17.25
7/2/2015	13:00:00	17.32
7/2/2015	13:10:00	17.36
7/2/2015	13:20:00	17.43
7/2/2015	13:30:00	17.49

7/2/2015	13:40:00	17.53
7/2/2015	13:50:00	17.55
7/2/2015	14:00:00	17.61
7/2/2015	14:10:00	17.68
7/2/2015	14:20:00	17.74
7/2/2015	14:30:00	17.79
7/2/2015	14:40:00	17.84
7/2/2015	14:50:00	17.87
7/2/2015	15:00:00	17.91
7/2/2015	15:10:00	17.93
7/2/2015	15:20:00	17.95
7/2/2015	15:30:00	17.94
7/2/2015	15:40:00	17.87
7/2/2015	15:50:00	17.72
7/2/2015	16:00:00	16.48
7/2/2015	16:10:00	15.96
7/2/2015	16:20:00	16.24
7/2/2015	16:30:00	16.25
7/2/2015	16:40:00	16.23
7/2/2015	16:50:00	16.24
7/2/2015	17:00:00	16.25
7/2/2015	17:10:00	16.23
7/2/2015	17:20:00	16.22
7/2/2015	17:30:00	16.22
7/2/2015	17:40:00	16.20
7/2/2015	17:50:00	16.22
7/2/2015	18:00:00	16.19
7/2/2015	18:10:00	16.17
7/2/2015	18:20:00	16.17
7/2/2015	18:30:00	16.17
7/2/2015	18:40:00	16.16
7/2/2015	18:50:00	16.14
7/2/2015	19:00:00	16.09
7/2/2015	19:10:00	16.05
7/2/2015	19:20:00	15.98
7/2/2015	19:30:00	15.93
7/2/2015	19:40:00	15.88
7/2/2015	19:50:00	15.84
7/2/2015	20:00:00	15.79
7/2/2015	20:10:00	15.75
7/2/2015	20:20:00	15.70
7/2/2015	20:30:00	15.68
7/2/2015	20:40:00	15.66
7/2/2015	20:50:00	15.64
7/2/2015	21:00:00	15.62
7/2/2015	21:10:00	15.60

7/2/2015	21:20:00	15.58
7/2/2015	21:30:00	15.56
7/2/2015	21:40:00	15.54
7/2/2015	21:50:00	15.52
7/2/2015	22:00:00	15.50
7/2/2015	22:10:00	15.50
7/2/2015	22:20:00	15.50
7/2/2015	22:30:00	15.51
7/2/2015	22:40:00	15.47
7/2/2015	22:50:00	15.46
7/2/2015	23:00:00	15.54
7/2/2015	23:10:00	15.72
7/2/2015	23:20:00	15.88
7/2/2015	23:30:00	16.02
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7/30/2015	15:20:00	20.92
7/30/2015	15:30:00	20.97
7/30/2015	15:40:00	21.11
7/30/2015	15:50:00	21.17
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7/30/2015	23:40:00	21.88
7/30/2015	23:50:00	21.79

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7/31/2015	0:20:00	21.54
7/31/2015	0:30:00	21.45
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7/31/2015	8:10:00	18.93
7/31/2015	8:20:00	18.93
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8/1/2015	0:00:00	20.74
8/1/2015	0:10:00	20.69

