

Brookfield

By email

September 6, 2016

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
August 2016

Dear Mr. Grace:

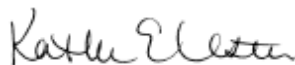
Temperature in the Youghiogheny River at the Sang Run Bridge temperature monitor exceeded 25°C on August 2, 3, 7, 11, 13, 18, 23 and 24. The attached Summary of Excursions provides additional details.

TERs were conducted on August 2, 3, 7, 9, 10, 11, 14, 16, 17, 18, 24, 25, 28, 30 and 31. 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 August 2016 and the daily temperature monitor readings are attached for your review.

Should any additional information be required, please contact me by phone at 570-226-1371, by e-mail at kathleen.lester@brookfieldrenewable.com, or by mail at Lake Office, P.O. Box 122, Hawley, PA 18428.

Yours truly,



Kathleen E. Lester
Compliance Specialist

Attachment: August 2016 Sang Run Temperature Report

Cc by email: B. Hudnall (Brookfield)
K. Moriarty (Brookfield)
J. Norris (Brookfield)
M. Olson (Brookfield)
M. Stanley (Brookfield)



DEEP CREEK STATION
MARYLAND WATER APPROPRIATION
PERMIT
NO. GA1992S009 (08)
TEMPERATURE MONITORING REPORT
AUGUST 2016

Summary of Temperature Excursions
August 1, 2016 to August 31, 2016

Summary of Temperature Excursions August 1, 2016 to August 31, 2016				
Date	Duration	Max Temp (°C)	Cause	Remarks
August 2, 2016	1 hour	25.34	Model Uncertainty	The temperature protocol conducted on August 2 called for a two hour release at 12:30 p.m. A release using both units at full gate opening was made from 12:28 - 14:30.
August 3, 2016	1 hour 20 minutes	25.61	Model Uncertainty	The temperature protocol conducted on August 3 called for a one hour release no later than 2:30 p.m. A release using both units at full gate opening was made from 14:00 - 15:03.
August 7, 2016	2 hours	26.46	Model Uncertainty	The temperature protocol conducted on August 7 called for a one hour release no later than 2:30 p.m. A release using both units at full gate opening was made from 14:30 - 15:30.
August 11, 2016	40 minutes	25.46	Model Uncertainty	The temperature protocol conducted on August 11 called for a two hour release at 11 a.m. A release using both units at full gate opening was made from 11:00 - 13:00.
August 13, 2016	10 minutes	25.25	Model Uncertainty	The temperature protocol was not required due to being a scheduled White Water Release Day.
August 18, 2016	20 minutes	25.25	Model Uncertainty	The temperature protocol conducted on August 18 called for a two hour release at 12:30 p.m. A release using both units at full gate opening was made from 12:30 - 14:30.
August 23, 2016	1 hour 20 minutes	25.19	Model Uncertainty	The temperature protocol was run and called for no release.
August 24, 2016	1 hour 50 minutes	26.37	Model Uncertainty	The temperature protocol conducted on August 24 called for a one hour release no later than 3:30 p.m. A release using both units at full gate opening was made from 15:30 - 16:30.

Temperature Enhancement Protocol Operating Log
Sheets – August 2016

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

Simulate a Re

73 = CFS River Flow at Oakland

August 1, 2016

Print Info for file

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

Tair °C	28.33	Air Temp, Elkins WV - Degree C	83	Air Temp, Elkins WV - Degree F
CCF	36.00	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	73.00	River Flow at Oakland		

White Water Release today

operator



YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

54 = CFS River Flow at Oakland

August 2, 2016

Simulate a Run

Print Info for file

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	25.76 (23 to 26.4)	Check Again at 0900
0900	25.73 (23 to 25.9)	Check Again at 1100
1100	26.76 (23 to 25.4)	Release at 1230 for 2 Hours
1200	-- (23 to 25.3)	--
1400	-- (23 to 25.2)	--
1500	--	--

Tair °C	29.44	Air Temp, Elkins WV - Degree C	85	Air Temp, Elkins WV - Degree F
CCF	36.00	Cloud Cover Factor, Elkins WV	PTSUNY	Cloud Cover, Elkins WV
T7	20.70	River Temp Sang Run @700		
T9	20.70	River Temp Sang Run @900		
T11	22.10	River Temp Sang Run @1100		
T12	--	River Temp Sang Run @1200		
T14	--	River Temp Sang Run @1400		
T15	--	River Temp Sang Run @1500		
Q	54.00	River Flow at Oakland		

CAVE
R. McKenna

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

Simulate a R

40 = CFS River Flow at Oakland

August 3, 2016

Print Info for file

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	25.36 (23 to 26.4)	Check Again at 0900
0900	25.65 (23 to 25.9)	Check Again at 1100
1100	24.54 (23 to 25.4)	Check Again at 1200
1200	24.47 (23 to 25.3)	Check Again at 1400
1400	25.68 (23 to 25.2)	Release ASAP - not later than 1430 for 1 hour
1500	--	--

Tair °C	26.67	Air Temp, Elkins WV - Degree C	80	Air Temp, Elkins WV - Degree F
CCF	36.00	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	21.00	River Temp Sang Run @1100		
T12	21.50	River Temp Sang Run @1200		
T14	23.80	River Temp Sang Run @1400		
T15	--	River Temp Sang Run @1500		
Q	40.00	River Flow at Oakland		

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

37 = CFS River Flow at Oakland

August 4, 2016

Simulate a R

Print Info for file

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	25.08 (23 to 26.4)	Check Again at 0900
0900	25.23 (23 to 25.9)	Check Again at 1100
1100	24.94 (23 to 25.4)	Check Again at 1200
1200	24.56 (23 to 25.3)	Check Again at 1400
1400	24.94 (23 to 25.2)	Check Again at 1500
1500	25.03	Check Again Tomorrow at 0700

Tair °C	25.00	Air Temp, Elkins WV - Degree C	77	Air Temp, Elkins WV - Degree F
CCF	36.00	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	21.70	River Temp Sang Run @1100		
T12	22.00	River Temp Sang Run @1200		
T14	23.60	River Temp Sang Run @1400		
T15	24.20	River Temp Sang Run @1500		
Q	37.00	River Flow at Oakland		

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN


Simulate a R

34 = CFS River Flow at Oakland

August 5, 2016

Print Info for file

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	25.41 (23 to 26.4)	Check Again at 0900
0900	25.58 (23 to 25.9)	Check Again at 1100
1100	23.22 (23 to 25.4)	Check Again at 1200
1200	-- (23 to 25.3)	Input 1200 SANG RUN Temp
1400	-- (23 to 25.2)	Input 1200 SANG RUN Temp
1500	--	Input 1200 SANG RUN Temp

Tair °C	27.22	Air Temp, Elkins WV - Degree C	81	Air Temp, Elkins WV - Degree F
CCF	36.00	Cloud Cover Factor, Elkins WV	TSTRMS	Cloud Cover, Elkins WV
T7	19.40	River Temp Sang Run @700		
T9	19.60	River Temp Sang Run @900		
T11	19.30	River Temp Sang Run @1100		
T12	--	River Temp Sang Run @1200		
T14	--	River Temp Sang Run @1400		
T15	--	River Temp Sang Run @1500		
Q	34.00	River Flow at Oakland		

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

Simulate a Re

58 = CFS River Flow at Oakland

August 6, 2016

Print Info for file

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	24.82 (23 to 26.4)	Check Again at 0900
0900	-- (23 to 25.9)	Input 0900 SANG RUN Temp
1100	-- (23 to 25.4)	Input 0900 SANG RUN Temp
1200	-- (23 to 25.3)	Input 0900 SANG RUN Temp
1400	-- (23 to 25.2)	Input 0900 SANG RUN Temp
1500	--	Input 0900 SANG RUN Temp

Tair °C	27.22	Air Temp, Elkins WV - Degree C	81	Air Temp, Elkins WV - Degree F
CCF	36.00	Cloud Cover Factor, Elkins WV	TSTRMS	Cloud Cover, Elkins WV
T7	20.50	River Temp Sang Run @ 700		
T9	--	River Temp Sang Run @ 900		
T11	--	River Temp Sang Run @ 1100		
T12	--	River Temp Sang Run @ 1200		
T14	--	River Temp Sang Run @ 1400		
T15	--	River Temp Sang Run @ 1500		
Q	58.00	River Flow at Oakland		

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN


Simulate a R

71 = CFS River Flow at Oakland

August 7, 2016

Print Info for file

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	23.96 (23 to 26.4)	Check Again at 0900
0900	23.66 (23 to 25.9)	Check Again at 1100
1100	25.00 (23 to 25.4)	Check Again at 1200
1200	24.90 (23 to 25.3)	Check Again at 1400
1400	27.14 (23 to 25.2)	Release ASAP - not later than 1430 for 1 hour
1500	--	--

Tair °C	27.22	Air Temp, Elkins WV - Degree C	81	Air Temp, Elkins WV - Degree F
CCF	36.00	Cloud Cover Factor, Elkins WV	TSTRMS	Cloud Cover, Elkins WV
T7	19.50	River Temp Sang Run @700		
T9	19.30	River Temp Sang Run @900		
T11	20.40	River Temp Sang Run @1100		
T12	21.20	River Temp Sang Run @1200		
T14	24.70	River Temp Sang Run @1400		
T15	--	River Temp Sang Run @1500		
Q	71.00	River Flow at Oakland		

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

38 = CFS River Flow at Oakland

August 8, 2016

Simulate a R:

Print Info for file

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

WWR

Tair °C	26.11	Air Temp, Elkins WV - Degree C	79	Air Temp, Elkins WV - Degree F
CCF	36.00	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	38.00	River Flow at Oakland		

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YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

29 = CFS River Flow at Oakland

August 9, 2016

Simulate a Run

Print Info for file

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	25.84 (23 to 26.4)	Check Again at 0900
0900	25.99 (23 to 25.9)	Release at 1100 for 2 Hours
1100	-- (23 to 25.4)	--
1200	-- (23 to 25.3)	--
1400	-- (23 to 25.2)	--
1500	--	--

Tair °C	28.89	Air Temp, Elkins WV - Degree C	84	Air Temp, Elkins WV - Degree F
CCF	36.00	Cloud Cover Factor, Elkins WV	PTSUNY	Cloud Cover, Elkins WV
T7	18.60	River Temp Sang Run @700		
T9	18.90	River Temp Sang Run @900		
T11	--	River Temp Sang Run @1100		
T12	--	River Temp Sang Run @1200		
T14	--	River Temp Sang Run @1400		
T15	--	River Temp Sang Run @1500		
Q	29.00	River Flow at Oakland		

Deep Creek

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

25 = CFS River Flow at Oakland

August 10, 2016

Simulate a Release

Print Info for file

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	26.70 (23 to 26.4)	Release at 1100 for 2 Hours
0900	-- (23 to 25.9)	
1100	-- (23 to 25.4)	
1200	-- (23 to 25.3)	
1400	-- (23 to 25.2)	
1500	--	

Tair °C	30.00	Air Temp, Elkins WV - Degree C	86	Air Temp, Elkins WV - Degree F
CCF	36.00	Cloud Cover Factor, Elkins WV	TSTRMS	Cloud Cover, Elkins WV
T7	20.10	River Temp Sang Run @700		
T9	--	River Temp Sang Run @900		
T11	--	River Temp Sang Run @1100		
T12	--	River Temp Sang Run @1200		
T14	--	River Temp Sang Run @1400		
T15	--	River Temp Sang Run @1500		
Q	25.00	River Flow at Oakland		

RJ

RELEASE 1100 - 1300

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

Simulate a Re

23 = CFS River Flow at Oakland

August 11, 2016

Print Info for

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	27.78 (23 to 26.4)	Release at 1100 for 2 Hours
0900	-- (23 to 25.9)	--
1100	-- (23 to 25.4)	--
1200	-- (23 to 25.3)	--
1400	-- (23 to 25.2)	--
1500	--	--

Tair °C	31.67	Air Temp, Elkins WV - Degree C	89	Air Temp, Elkins WV - Degree F
CCF	36.00	Cloud Cover Factor, Elkins WV	TSTRMS	Cloud Cover, Elkins WV
T7	21.70	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	23.00	River Flow at Oakland		



8/11/16

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

Simulate a R:

22 = CFS River Flow at Oakland

August 12, 2016

Print Info for file

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

WWP

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	22.00	River Flow at Oakland		

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YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

Simulate a Re


21 = CFS River Flow at Oakland

August 13, 2016

Print Info for file

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

WWR

Tair °C	32.22	Air Temp, Elkins WV - Degree C	90	Air Temp, Elkins WV - Degree F
CCF	36.00	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	21.00	River Flow at Oakland		

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN


18 = CFS River Flow at Oakland

August 14, 2016

Simulate a R

Print Info for file

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	28.14 (23 to 26.4)	Release at 1100 for 2 Hours
0900	-- (23 to 25.9)	
1100	-- (23 to 25.4)	
1200	-- (23 to 25.3)	
1400	-- (23 to 25.2)	
1500	--	

Tair °C	32.78	Air Temp, Elkins WV - Degree C	91	Air Temp, Elkins WV - Degree F
CCF	36.00	Cloud Cover Factor, Elkins WV	TSTRMS	Cloud Cover, Elkins WV
T7	21.70	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	18.00	River Flow at Oakland		

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

Simulate a R

18 = CFS River Flow at Oakland

August 15, 2016

Print Info for file

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	26.91 (23 to 26.4)	Release at 1100 for 2 Hours
0900	-- (23 to 25.9)	
1100	-- (23 to 25.4)	
1200	-- (23 to 25.3)	
1400	-- (23 to 25.2)	
1500	--	

Tair °C	30.56	Air Temp, Elkins WV - Degree C	87	Air Temp, Elkins WV - Degree F
CCF	36.00	Cloud Cover Factor, Elkins WV	TSTRMS	Cloud Cover, Elkins WV
T7	20.20	River Temp Sang Run @700		
T9	--	River Temp Sang Run @900		
T11	--	River Temp Sang Run @1100		
T12	--	River Temp Sang Run @1200		
T14	--	River Temp Sang Run @1400		
T15	--	River Temp Sang Run @1500		
Q	18.00	River Flow at Oakland		

[Handwritten signature]
WWR

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN


Simulate a Re

31 = CFS River Flow at Oakland

August 16, 2016

Print Info for file

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	25.66 (23 to 26.4)	Check Again at 0900
0900	25.89 (23 to 25.9)	Check Again at 1100
1100	26.75 (23 to 25.4)	Release at 1230 for 2 Hours
1200	-- (23 to 25.3)	--
1400	-- (23 to 25.2)	--
1500	--	--

Tair °C	30.56	Air Temp, Elkins WV - Degree C	87	Air Temp, Elkins WV - Degree F
CCF	100.00	Cloud Cover Factor, Elkins WV	OVRCAST	Cloud Cover, Elkins WV
T7	20.20	River Temp Sang Run @700		
T9	20.60	River Temp Sang Run @900		
T11	22.30	River Temp Sang Run @1100		
T12	--	River Temp Sang Run @1200		
T14	--	River Temp Sang Run @1400		
T15	--	River Temp Sang Run @1500		
Q	31.00	River Flow at Oakland		

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN


Simulate a Re

43 = CFS River Flow at Oakland

August 17, 2016

Print Info for file

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	25.58 (23 to 26.4)	Check Again at 0900
0900	25.96 (23 to 25.9)	Release at 1100 for 2 Hours
1100	-- (23 to 25.4)	--
1200	-- (23 to 25.3)	--
1400	-- (23 to 25.2)	--
1500	--	--

Tair °C	26.67	Air Temp, Elkins WV - Degree C	80	Air Temp, Elkins WV - Degree F
CCF	36.00	Cloud Cover Factor, Elkins WV	TSTRMS	Cloud Cover, Elkins WV
T7	21.50	River Temp Sang Run @700		
T9	21.70	River Temp Sang Run @900		
T11	--	River Temp Sang Run @1100		
T12	--	River Temp Sang Run @1200		
T14	--	River Temp Sang Run @1400		
T15	--	River Temp Sang Run @1500		
Q	43.00	River Flow at Oakland		

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

Simulate a Re

54 = CFS River Flow at Oakland

August 18, 2016

Print Info for file

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	25.55 (23 to 26.4)	Check Again at 0900
0900	25.62 (23 to 25.9)	Check Again at 1100
1100	25.89 (23 to 25.4)	Release at 1230 for 2 Hours
1200	-- (23 to 25.3)	--
1400	-- (23 to 25.2)	--
1500	--	--

Tair °C	26.67	Air Temp, Elkins WV - Degree C	80	Air Temp, Elkins WV - Degree F
CCF	16.00	Cloud Cover Factor, Elkins WV	FAIR	Cloud Cover, Elkins WV
T7	21.60	River Temp Sang Run @700		
T9	21.50	River Temp Sang Run @900		
T11	22.30	River Temp Sang Run @1100		
T12	--	River Temp Sang Run @1200		
T14	--	River Temp Sang Run @1400		
T15	--	River Temp Sang Run @1500		
Q	54.00	River Flow at Oakland		

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

Simulate a Re

47 = CFS River Flow at Oakland

August 19, 2016

Print Info for file

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	25.43 (23 to 26.4)	Check Again at 0900
0900	-- (23 to 25.9)	Input 0900 SANG RUN Temp
1100	-- (23 to 25.4)	Input 0900 SANG RUN Temp
1200	-- (23 to 25.3)	Input 0900 SANG RUN Temp
1400	-- (23 to 25.2)	Input 0900 SANG RUN Temp
1500	--	Input 0900 SANG RUN Temp

Tair °C	27.22	Air Temp, Elkins WV - Degree C	81	Air Temp, Elkins WV - Degree F
CCF	36.00	Cloud Cover Factor, Elkins WV	TSTRMS	Cloud Cover, Elkins WV
T7	21.00	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	47.00	River Flow at Oakland		

WHITEWATER 1100 - 1400
Rancher

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

35 = CFS River Flow at Oakland

August 20, 2016

Simulate a Run

Print Info for file

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

Tair °C	27.22	Air Temp, Elkins WV - Degree C	81	Air Temp, Elkins WV - Degree F
CCF	36.00	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	35.00	River Flow at Oakland		

WHITewater RELEASE 1100-1400

8/20/16

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

Simulate a Re

34 = CFS River Flow at Oakland

August 21, 2016

Print Info for file

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	24.88 (23 to 26.4)	Check Again at 0900
0900	25.44 (23 to 25.9)	Check Again at 1100
1100	23.91 (23 to 25.4)	Check Again at 1200
1200	23.72 (23 to 25.3)	Check Again at 1400
1400	23.30 (23 to 25.2)	Check Again at 1500
1500	23.96	Check Again Tomorrow at 0700

Tair °C	23.89	Air Temp, Elkins WV - Degree C	75	Air Temp, Elkins WV - Degree F
CCF	36.00	Cloud Cover Factor, Elkins WV	SHWRS	Cloud Cover, Elkins WV
T7	21.00	River Temp Sang Run @700		
T9	21.30	River Temp Sang Run @900		
T11	21.40	River Temp Sang Run @1100		
T12	21.60	River Temp Sang Run @1200		
T14	22.30	River Temp Sang Run @1400		
T15	23.20	River Temp Sang Run @1500		
Q	34.00	River Flow at Oakland		

R. McLan 8/21/16

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

Simulate a Re

64 = CFS River Flow at Oakland

August 22, 2016

Print Info for file

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

Tair °C	24.44	Air Temp, Elkins WV - Degree C	76	Air Temp, Elkins WV - Degree F
CCF	100.00	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	64.00	River Flow at Oakland		

WWR

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

Simulate a Re

40 = CFS River Flow at Oakland

August 23, 2016

Print Info for file

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	24.81 (23 to 26.4)	Check Again at 0900
0900	24.45 (23 to 25.9)	Check Again at 1100
1100	24.93 (23 to 25.4)	Check Again at 1200
1200	24.47 (23 to 25.3)	Check Again at 1400
1400	24.12 (23 to 25.2)	Check Again at 1500
1500	24.31	Check Again Tomorrow at 0700

Tair °C	27.78	Air Temp, Elkins WV - Degree C
CCF	36.00	Cloud Cover Factor, Elkins WV
T7	17.80	River Temp Sang Run @700
T9	17.70	River Temp Sang Run @900
T11	19.30	River Temp Sang Run @1100
T12	20.00	River Temp Sang Run @1200
T14	21.90	River Temp Sang Run @1400
T15	22.90	River Temp Sang Run @1500
Q	40.00	River Flow at Oakland

82
PTCLDY

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

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

Simulate a Re

29 = CFS River Flow at Oakland

August 24, 2016

Print Info for file

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	25.46 (23 to 26.4)	Check Again at 0900
0900	25.28 (23 to 25.9)	Check Again at 1100
1100	25.29 (23 to 25.4)	Check Again at 1200
1200	24.96 (23 to 25.3)	Check Again at 1400
1400	24.79 (23 to 25.2)	Check Again at 1500
1500	25.67	Release ASAP - not later than 1530 for 1 hour

Tair °C	28.89	Air Temp, Elkins WV - Degree C	84	Air Temp, Elkins WV - Degree F
CCF	36.00	Cloud Cover Factor, Elkins WV	PTCLDY	Cloud Cover, Elkins WV
T7	17.50	River Temp Sang Run @700		
T9	17.60	River Temp Sang Run @900		
T11	19.30	River Temp Sang Run @1100		
T12	20.20	River Temp Sang Run @1200		
T14	22.40	River Temp Sang Run @1400		
T15	24.10	River Temp Sang Run @1500		
Q	29.00	River Flow at Oakland		

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

Simulate a Re

24 = CFS River Flow at Oakland

August 25, 2016

Print Info for file

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	26.08 (23 to 26.4)	Check Again at 0900
0900	26.35 (23 to 25.9)	Release at 1100 for 2 Hours
1100	-- (23 to 25.4)	--
1200	-- (23 to 25.3)	--
1400	-- (23 to 25.2)	--
1500	--	--

Tair °C	29.44	Air Temp, Elkins WV - Degree C	85	Air Temp, Elkins WV - Degree F
CCF	36.00	Cloud Cover Factor, Elkins WV	SHWRS	Cloud Cover, Elkins WV
T7	18.80	River Temp Sang Run @700		
T9	19.20	River Temp Sang Run @900		
T11	--	River Temp Sang Run @1100		
T12	--	River Temp Sang Run @1200		
T14	--	River Temp Sang Run @1400		
T15	--	River Temp Sang Run @1500		
Q	24.00	River Flow at Oakland		

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

Simulate a Re

25 = CFS River Flow at Oakland

August 26, 2016

Print Info for file

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

Tair °C	30.56	Air Temp, Elkins WV - Degree C	87	Air Temp, Elkins WV - Degree F
CCF	9.00	Cloud Cover Factor, Elkins WV	MOSUNNY	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	25.00	River Flow at Oakland		

Jay M. O'Neil wwr

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

27 = CFS River Flow at Oakland

August 27, 2016

Simulate a Run

Print Info for file

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

Tair °C	31.67	Air Temp, Elkins WV - Degree C	89	Air Temp, Elkins WV - Degree F
CCF	9.00	Cloud Cover Factor, Elkins WV	MOSUNNY	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	27.00	River Flow at Oakland		

Jay M. D. W. W. R.

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

Simulate a Run

21 = CFS River Flow at Oakland

August 28, 2016

Print Info for file

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	27.26 (23 to 26.4)	Release at 1100 for 2 Hours
0900	-- (23 to 25.9)	--
1100	-- (23 to 25.4)	--
1200	-- (23 to 25.3)	--
1400	-- (23 to 25.2)	--
1500	--	--

Tair °C	31.11	Air Temp, Elkins WV - Degree C	88	Air Temp, Elkins WV - Degree F
CCF	36.00	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	21.00	River Flow at Oakland		

Jay McDevitt

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

Simulate a Re

47 = CFS River Flow at Oakland

August 29, 2016

Print Info for file

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

Tair °C	30.56	Air Temp, Elkins WV - Degree C	87	Air Temp, Elkins WV - Degree F
CCF	36.00	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	47.00	River Flow at Oakland		

WHITewater RELEASE 1100-1400

R. Nelson 8/29/16

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

43 = CFS River Flow at Oakland

August 30, 2016

Simulate a Release

Print Info for file

Time	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	26.79 (23 to 26.4)	Release at 1100 for 2 Hours
0900	-- (23 to 25.9)	--
1100	-- (23 to 25.4)	--
1200	-- (23 to 25.3)	--
1400	-- (23 to 25.2)	--
1500	--	--

Tair °C	30.00	Air Temp, Elkins WV - Degree C	86	Air Temp, Elkins WV - Degree F
CCF	9.00	Cloud Cover Factor, Elkins WV	MOSUNNY	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	43.00	River Flow at Oakland		

R. Melan 8/30/16

YOUGHIOGHENY RIVER WATER TEMPERATURE ENHANCEMENT PLAN

Simulate a R

24 = CFS River Flow at Oakland

August 31, 2016

Print Info for file

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

Tair °C	30.56	Air Temp, Elkins WV - Degree C	87	Air Temp, Elkins WV - Degree F
CCF	9.00	Cloud Cover Factor, Elkins WV	MOSUNNY	Cloud Cover, Elkins WV
T7	18.60	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	24.00	River Flow at Oakland		

Rundown 8/31/16

August 2016 Sang Run Temperature Recorder Data

Station Name		
Sangrur	Time	Temp.
8/1/2016	,00:00:00,	21.89
8/1/2016	,00:10:00,	21.85
8/1/2016	,00:20:00,	21.82
8/1/2016	,00:30:00,	21.78
8/1/2016	,00:40:00,	21.73
8/1/2016	,00:50:00,	21.68
8/1/2016	,01:00:00,	21.64
8/1/2016	,01:10:00,	21.6
8/1/2016	,01:20:00,	21.56
8/1/2016	,01:30:00,	21.51
8/1/2016	,01:40:00,	21.47
8/1/2016	,01:50:00,	21.42
8/1/2016	,02:00:00,	21.37
8/1/2016	,02:10:00,	21.33
8/1/2016	,02:20:00,	21.28
8/1/2016	,02:30:00,	21.24
8/1/2016	,02:40:00,	21.2
8/1/2016	,02:50:00,	21.16
8/1/2016	,03:00:00,	21.11
8/1/2016	,03:10:00,	21.07
8/1/2016	,03:20:00,	21.03
8/1/2016	,03:30:00,	21
8/1/2016	,03:40:00,	20.97
8/1/2016	,03:50:00,	20.93
8/1/2016	,04:00:00,	20.9
8/1/2016	,04:10:00,	20.87
8/1/2016	,04:20:00,	20.83
8/1/2016	,04:30:00,	20.79
8/1/2016	,04:40:00,	20.76
8/1/2016	,04:50:00,	20.73
8/1/2016	,05:00:00,	20.69
8/1/2016	,05:10:00,	20.66
8/1/2016	,05:20:00,	20.61
8/1/2016	,05:30:00,	20.57
8/1/2016	,05:40:00,	20.52
8/1/2016	,05:50:00,	20.49
8/1/2016	,06:00:00,	20.45
8/1/2016	,06:10:00,	20.42
8/1/2016	,06:20:00,	20.39
8/1/2016	,06:30:00,	20.36
8/1/2016	,06:40:00,	20.32
8/1/2016	,06:50:00,	20.29
8/1/2016	,07:00:00,	20.28

8/1/2016	,07:10:00,	20.26
8/1/2016	,07:20:00,	20.25
8/1/2016	,07:30:00,	20.24
8/1/2016	,07:40:00,	20.23
8/1/2016	,07:50:00,	20.22
8/1/2016	,08:00:00,	20.22
8/1/2016	,08:10:00,	20.24
8/1/2016	,08:20:00,	20.24
8/1/2016	,08:30:00,	20.25
8/1/2016	,08:40:00,	20.26
8/1/2016	,08:50:00,	20.28
8/1/2016	,09:00:00,	20.31
8/1/2016	,09:10:00,	20.35
8/1/2016	,09:20:00,	20.41
8/1/2016	,09:30:00,	20.46
8/1/2016	,09:40:00,	20.55
8/1/2016	,09:50:00,	20.63
8/1/2016	,10:00:00,	20.7
8/1/2016	,10:10:00,	20.76
8/1/2016	,10:20:00,	20.84
8/1/2016	,10:30:00,	20.91
8/1/2016	,10:40:00,	21.01
8/1/2016	,10:50:00,	21.09
8/1/2016	,11:00:00,	21.19
8/1/2016	,11:10:00,	21.29
8/1/2016	,11:20:00,	21.4
8/1/2016	,11:30:00,	21.58
8/1/2016	,11:40:00,	21.75
8/1/2016	,11:50:00,	21.84
8/1/2016	,12:00:00,	21.99
8/1/2016	,12:10:00,	22.17
8/1/2016	,12:20:00,	22.4
8/1/2016	,12:30:00,	22.46
8/1/2016	,12:40:00,	22.46
8/1/2016	,12:50:00,	22.6
8/1/2016	,13:00:00,	22.48
8/1/2016	,13:10:00,	22.1
8/1/2016	,13:20:00,	19.99
8/1/2016	,13:30:00,	19.5
8/1/2016	,13:40:00,	19.51
8/1/2016	,13:50:00,	19.49
8/1/2016	,14:00:00,	19.55
8/1/2016	,14:10:00,	19.56
8/1/2016	,14:20:00,	19.56
8/1/2016	,14:30:00,	19.56
8/1/2016	,14:40:00,	19.51
8/1/2016	,14:50:00,	19.54

8/1/2016	,15:00:00,	19.56
8/1/2016	,15:10:00,	19.52
8/1/2016	,15:20:00,	19.56
8/1/2016	,15:30:00,	19.64
8/1/2016	,15:40:00,	19.71
8/1/2016	,15:50:00,	19.79
8/1/2016	,16:00:00,	19.93
8/1/2016	,16:10:00,	20.08
8/1/2016	,16:20:00,	20.19
8/1/2016	,16:30:00,	20.32
8/1/2016	,16:40:00,	20.44
8/1/2016	,16:50:00,	20.49
8/1/2016	,17:00:00,	20.61
8/1/2016	,17:10:00,	20.73
8/1/2016	,17:20:00,	20.82
8/1/2016	,17:30:00,	20.92
8/1/2016	,17:40:00,	20.95
8/1/2016	,17:50:00,	21
8/1/2016	,18:00:00,	21.02
8/1/2016	,18:10:00,	21.06
8/1/2016	,18:20:00,	21.18
8/1/2016	,18:30:00,	21.37
8/1/2016	,18:40:00,	21.62
8/1/2016	,18:50:00,	21.88
8/1/2016	,19:00:00,	22.08
8/1/2016	,19:10:00,	22.27
8/1/2016	,19:20:00,	22.43
8/1/2016	,19:30:00,	22.56
8/1/2016	,19:40:00,	22.66
8/1/2016	,19:50:00,	22.75
8/1/2016	,20:00:00,	22.81
8/1/2016	,20:10:00,	22.84
8/1/2016	,20:20:00,	22.86
8/1/2016	,20:30:00,	22.86
8/1/2016	,20:40:00,	22.87
8/1/2016	,20:50:00,	22.86
8/1/2016	,21:00:00,	22.85
8/1/2016	,21:10:00,	22.82
8/1/2016	,21:20:00,	22.8
8/1/2016	,21:30:00,	22.77
8/1/2016	,21:40:00,	22.73
8/1/2016	,21:50:00,	22.69
8/1/2016	,22:00:00,	22.66
8/1/2016	,22:10:00,	22.62
8/1/2016	,22:20:00,	22.58
8/1/2016	,22:30:00,	22.54
8/1/2016	,22:40:00,	22.49

8/1/2016	,22:50:00,	22.45
8/1/2016	,23:00:00,	22.4
8/1/2016	,23:10:00,	22.37
8/1/2016	,23:20:00,	22.32
8/1/2016	,23:30:00,	22.28
8/1/2016	,23:40:00,	22.24
8/1/2016	,23:50:00,	22.21
8/2/2016	,00:00:00,	22.16
8/2/2016	,00:10:00,	22.12
8/2/2016	,00:20:00,	22.09
8/2/2016	,00:30:00,	22.05
8/2/2016	,00:40:00,	22.02
8/2/2016	,00:50:00,	21.99
8/2/2016	,01:00:00,	21.97
8/2/2016	,01:10:00,	21.93
8/2/2016	,01:20:00,	21.91
8/2/2016	,01:30:00,	21.89
8/2/2016	,01:40:00,	21.86
8/2/2016	,01:50:00,	21.84
8/2/2016	,02:00:00,	21.82
8/2/2016	,02:10:00,	21.79
8/2/2016	,02:20:00,	21.77
8/2/2016	,02:30:00,	21.73
8/2/2016	,02:40:00,	21.7
8/2/2016	,02:50:00,	21.66
8/2/2016	,03:00:00,	21.62
8/2/2016	,03:10:00,	21.59
8/2/2016	,03:20:00,	21.56
8/2/2016	,03:30:00,	21.52
8/2/2016	,03:40:00,	21.48
8/2/2016	,03:50:00,	21.45
8/2/2016	,04:00:00,	21.4
8/2/2016	,04:10:00,	21.37
8/2/2016	,04:20:00,	21.34
8/2/2016	,04:30:00,	21.29
8/2/2016	,04:40:00,	21.24
8/2/2016	,04:50:00,	21.2
8/2/2016	,05:00:00,	21.16
8/2/2016	,05:10:00,	21.12
8/2/2016	,05:20:00,	21.07
8/2/2016	,05:30:00,	21.03
8/2/2016	,05:40:00,	20.99
8/2/2016	,05:50:00,	20.95
8/2/2016	,06:00:00,	20.92
8/2/2016	,06:10:00,	20.88
8/2/2016	,06:20:00,	20.85
8/2/2016	,06:30:00,	20.83

8/2/2016	,06:40:00,	20.79
8/2/2016	,06:50:00,	20.77
8/2/2016	,07:00:00,	20.75
8/2/2016	,07:10:00,	20.72
8/2/2016	,07:20:00,	20.71
8/2/2016	,07:30:00,	20.7
8/2/2016	,07:40:00,	20.69
8/2/2016	,07:50:00,	20.68
8/2/2016	,08:00:00,	20.67
8/2/2016	,08:10:00,	20.66
8/2/2016	,08:20:00,	20.66
8/2/2016	,08:30:00,	20.67
8/2/2016	,08:40:00,	20.7
8/2/2016	,08:50:00,	20.72
8/2/2016	,09:00:00,	20.74
8/2/2016	,09:10:00,	20.77
8/2/2016	,09:20:00,	20.91
8/2/2016	,09:30:00,	21.05
8/2/2016	,09:40:00,	21.18
8/2/2016	,09:50:00,	21.29
8/2/2016	,10:00:00,	21.4
8/2/2016	,10:10:00,	21.53
8/2/2016	,10:20:00,	21.65
8/2/2016	,10:30:00,	21.79
8/2/2016	,10:40:00,	21.93
8/2/2016	,10:50:00,	22.05
8/2/2016	,11:00:00,	22.13
8/2/2016	,11:10:00,	22.25
8/2/2016	,11:20:00,	22.39
8/2/2016	,11:30:00,	22.59
8/2/2016	,11:40:00,	22.8
8/2/2016	,11:50:00,	23.03
8/2/2016	,12:00:00,	23.27
8/2/2016	,12:10:00,	23.39
8/2/2016	,12:20:00,	23.6
8/2/2016	,12:30:00,	23.75
8/2/2016	,12:40:00,	23.99
8/2/2016	,12:50:00,	24.15
8/2/2016	,13:00:00,	24.38
8/2/2016	,13:10:00,	24.65
8/2/2016	,13:20:00,	24.93
8/2/2016	,13:30:00,	25.11
8/2/2016	,13:40:00,	25.32
8/2/2016	,13:50:00,	25.26
8/2/2016	,14:00:00,	25.34
8/2/2016	,14:10:00,	25.03
8/2/2016	,14:20:00,	24.55

8/2/2016	,14:30:00,	25.34
8/2/2016	,14:40:00,	24.88
8/2/2016	,14:50:00,	23.07
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