

Factual Report – Attachment 19

Email correspondence related to the USACE Table Rock Lake profile.

METEOROLOGY

DCA18MM028

*Submitted by: Mike Richards
NTSB, AS-30*

Richards Michael

From: Kelsey Angle - NOAA Federal <[REDACTED]@noaa.gov>

Sent: Monday, July 23, 2018 5:23 PM

To: Richards Michael <[REDACTED]@ntsb.gov>

Subject: Table Rock Lake Temperature Profile

Mike,

Below is the temp profile of the lake measured from July 11, 2018.
During the Summer and with the weather encountered from July 11-20th
these conditions will be very similar from day to day.

Kelsey

TABLE ROCK LAKE
PROFILE DATE = 11Jul18
ELEVATION = 916.32

NO	DEPTH feet	D.O. mg/l	TEMP deg F
1	0.4	8.68	88.81
2	7.0	8.93	87.42
3	10.0	9.13	86.11
4	17.0	9.55	84.49
5	18.0	9.93	83.75
6	19.0	10.06	82.38
7	20.0	10.33	78.82
8	21.0	10.12	74.80
9	23.0	9.64	73.15
10	25.0	9.52	71.60
11	26.0	9.24	70.12
12	27.0	8.99	67.73
13	28.0	8.57	66.24
14	29.0	8.28	64.74
15	30.0	8.00	64.35
16	31.0	7.37	63.14
17	33.0	6.77	61.57
18	35.0	5.72	60.31
19	40.0	4.37	58.62
20	44.0	3.57	57.34
21	50.0	3.63	56.19
22	58.0	4.35	54.81
23	60.0	4.70	54.61
24	70.0	5.20	54.01
25	80.0	5.91	53.08
26	90.0	6.64	52.21
27	100.0	6.65	51.57
28	110.0	6.77	50.79
29	120.0	6.71	50.50
30	130.0	7.21	49.53
31	140.0	7.13	49.30
32	150.0	7.00	49.05
33	160.0	6.39	48.45
34	170.0	5.68	48.04
35	180.0	4.71	47.43
36	190.0	3.00	46.80
37	200.0	2.15	46.69
38	206.5	2.09	46.71

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Kelsey Angle

Meteorologist in Charge

[National Weather Service Springfield](#)

Office: 417 [REDACTED]

Forecast Recording: 417 [REDACTED]

Cell: 316 [REDACTED]



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Richards Michael

From: Knight, Gabriel J CIV USARMY CESWL (US) <[REDACTED]@usace.army.mil>
Sent: Tuesday, July 24, 2018 8:09 AM
To: Richards Michael <[REDACTED]@ntsb.gov>; Shortt, Rebecca J CIV USARMY CESWL (US) <[REDACTED]@usace.army.mil>; [REDACTED]@noaa.gov
Cc: Biggs, Michael L CIV USARMY CESWL (US) <[REDACTED]@usace.army.mil>
Subject: RE: Water Temp and Anemometers

Unfortunately we only get profiles once a month. You could probably add 0.25 °F - 0.5 °F to the temps posted. The profiles are collected from a boat that is positioned near the Dam. See lat/long below:

Lat 36° 35' 43.4"
Long -93° 18' 39.82"

Gabe

-----Original Message-----

From: Richards Michael [mailto:[REDACTED]@ntsb.gov]
Sent: Monday, July 23, 2018 5:52 PM
To: Knight, Gabriel J CIV USARMY CESWL (US) <[REDACTED]@usace.army.mil>; Shortt, Rebecca J CIV USARMY CESWL (US) <[REDACTED]@usace.army.mil>; [REDACTED]@noaa.gov
Cc: Biggs, Michael L CIV USARMY CESWL (US) <[REDACTED]@usace.army.mil>
Subject: [Non-DoD Source] RE: Water Temp and Anemometers

Again, thanks Gabe. Do you have a latitude/longitude or good position description for where this sensor is (assuming these data are retrieved from a single sensor)? Also, is there any temp profile retrieved closer to July 19?

Regards,
Mike

-----Original Message-----

From: Knight, Gabriel J CIV USARMY CESWL (US) <[REDACTED]@usace.army.mil>
Sent: Monday, July 23, 2018 9:06 AM
To: Shortt, Rebecca J CIV USARMY CESWL (US) <[REDACTED]@usace.army.mil>; Richards Michael <[REDACTED]@ntsb.gov>
Cc: Biggs, Michael L CIV USARMY CESWL (US) <[REDACTED]@usace.army.mil>
Subject: RE: Water Temp and Anemometers

Becky,

We do not collect real-time wind speed or lake temperature data. However, we do have a lake temperature profile from 11 July 2018 on our water management site. This is basically a snapshot of water temps moving vertically through the lake. I hope this helps:

Blocked<http://www.swl-wc.usace.army.mil/pages/reports/remote/profiles/tabpro.htm>

Gabe