



CITY OF BELLE ISLE, FL

1600 NELA AVENUE, BELLE ISLE, FL 32809 * TEL 407-851-7730

MEMORANDUM

From the Desk of Bob Francis, City Manager

To: Mayor and Council
Date: February 14, 2018
Re: Lake Conway navigation Board Meeting

Synopsis of the February 13, 2018 Lake Conway navigation Board Meeting

1. **Under Public Comment:** I submitted a letter to the Board (attached) requesting funds for a new marine patrol boat. This was a follow up from the August 4, 2017 letter that I sent requesting funding for the boat, street sweeper, and storm water projects. Street Sweeping is addressed later. The board considered the boat request later in the meeting.
2. **Marine patrol Report:** In January, OC and BIPD worked 18 shifts between them. Last month, 9 citations were issued; 8 of those were non-residents at Randolph ramp. Shifts for the patrol have been worked at 4 hours/week, Wed.-Fri. OC asked to go back to 2 hours/week until April and they will increase again. The shift time (2 hours) starts from the time they leave the shop until they return to the shop, so they are not on the water for the entire 2 hours.
3. **Update on off-Duty Lake Patrol Rate Increase:** This issue will be placed on the OC Board of County Commissioners Consent Agenda for 2/20/18. If approved, the rate increase will start on 4/1/18.
4. **COBI Stormwater Outfall Maintenance:** Both the City and County checked the area in question and found no buildup of sediment that needs to be dredged. The issue is now closed.
5. **Street Sweeping Assessment:** In August, the City sent a request to the Board to help the City fund a new street sweeper. Instead of funding the street sweeper, the County wanted to pick-up the remainder of the Belle Isle streets under the County's sweeping contract. The Board voted to fund the additional street sweeping costs. Not all streets will be swept by the County because there are some streets that are not accessible by the sweeper. A packet is attached showing the additional streets.
6. **Board Reports:** Bobby Lance spoke about Pioneer Days, Feb 24 and 25 (10 am- 5pm). Marine Patrol and BIPD will set up a booth. Alvin Luther asked me the status of the request to FWC on the bird

sanctuary. I explained that the appeal was denied and why. I also explained that we are doing what we can at the local level to enforce noise ordinances. I also told the board that the City is appealing the FWC denial.

7. Water Elevation Report: David Wood reported on the lake levels. Attached is a copy of the report and an explanation on how to read the report. You might want to consider signing up for Lake Conway reports and important emails at <https://tecengr.yolasite.com/cnb.php>
8. Non-Agenda Items: The Board discussed the City's request for funding the marine patrol boat. After several minutes of discussion, the Board voted in favor of funding the boat for 5 years at \$5,000/year for a total of \$25,000. This approval is contingent on the County attorneys opinion if this can be done.
9. Non-Agenda Items: I brought up that the City was receiving complaints about the area around the steps at the Sunoco station on Daetwyler. I wanted to know who allowed those steps to be put in. I was told the EPD allowed the steps to go in to prevent erosion of the bank. I stated that the area always has garbage and litter there and it is being used as a toilet. Tara Urbanik is going to see if it is County property. I told her if it was then the City could consider erecting a fence there to prevent the steps from being used.
10. The meeting adjourned at 8:00 PM.

Attachments

- Minutes of 1/9/18 Meeting
- City Funding Request for boat
- Street Sweeping packet
- Lake level report with instructions

**Lake Conway Water and Navigation Control District Advisory Board
Regular Meeting
Orange County Facilities Management Training Room
January 9, 2018**

Board Members Present: Rabon Vause (Chairman), Bobby Lance (Vice-Chairman), Micky Blackton and Alvin Luther

Board Members Absent: Jay Herrington and Gary Meloon

Staff & Guests: Tara Urbanik, Orange County Environmental Protection Division (EPD); Corporal Bim Lowers, Orange County Sheriff's Office (OCSO); Bob Francis, City Manager of Belle Isle

Residents: None

I. Call to Order:

With a quorum present, Rabon (Ray) Vause called the meeting of the Lake Conway Water and Navigation Control District Advisory Board (Advisory Board) to order at 6:41 p.m.

II. Approval of the December 12, 2017 Meeting Minutes

Upon a motion by Micky Blackton, seconded by Alvin Luther, and carried with all present members voting AYE by voice vote; with Gary Meloon and Jay Herrington being absent; the Advisory Board approved the December 12, 2017 minutes as presented.

III. Public Comment on Propositions before the Advisory Board

No public comments.

IV. Comments of the Chairman

The Lake Conway annual boat parade was magnificent; there were many boats participating in the event this year.

V. Marine Patrol Report

EPD called in a concern to the Sherriff's Office of a suspicious submerged package at the Ferncreek Boat Ramp. The Sheriff's Office and the Orange County Fire Department responded to the call, discussion ensued. The marine patrol report was presented. Citations have increased for careless driving of personal watercrafts (PWCs).

VI. Orange County EPD Report

Update on Off-Duty Lake Patrol Rate Increase Request

The Lake Jessamine and Butler Chain of Lakes Advisory Boards also support the off-duty lake patrol rate increase to \$50.00 per hour. This item will be reviewed by the Board of County Commissioners at a later date.

City of Belle Isle Stormwater Outfall Maintenance Discussion

Ms. Urbanik has not yet assessed the site from the lake; an update will be provided at the next meeting.

Lyngbya Treatment Update

Ms. Urbanik provided a handout on the proposed cost breakdown for the annual *Lyngbya* treatments in the finger canals. Using the Copper Komeen Crystals with the GreenClean liquid formula, the new annual cost is \$39,173 compared to the \$50,000 that was spent last year.

VII. Advisory Board Member Report

- Chairman Ray Vause : No comment
- Vice Chairman Bobby Lance: Mr. Lance stated duck hunting has started again on the lake.
- Micky Blackton: No comment
- Alvin Luther: No comment

VIII. Lake Conway Water Elevation Report

No report discussed.

IX. Non-Agenda Items

Mr. Lance will be in Tallahassee next week for the 2018 Florida Tourism Day event, and he will mention the duck hunting concern on Lake Conway. Bob Francis, City Manager of Belle Isle, stated the City Council recently passed another ordinance to establish a bird sanctuary. The ordinance is now being reviewed by the Florida Fish and Wildlife Conservation Commission's (FWC) legal section, in preparation for the upcoming FWC February Commission meeting.

X. Meeting Adjourned

Chairman Vause adjourned the meeting at 7:16 p.m.

Rabon Vause, Chairman

Date

Minutes prepared by Tara Urbanik

Date



CITY OF BELLE ISLE, FLORIDA

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Belle Isle, Florida 32809
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February 13, 2018

Lake Conway Navigation Control Advisory Board
Orange County Government
Lake Management Section
3165 McCrory Place, Suite 200
Orlando, FL 32803

RE: Request for Funding

Dear Board Members:

The City of Belle Isle is requesting the following funding to assist the City with Marine Patrol issues. The City and County personnel discussed the possibility of the City using County boats for the City's use on the lakes. After having the Belle Isle Marine Patrol personnel inspect the County boat available, the City determined that the boat is not acceptable for the City's use for the following reasons:

1. The boat offered is 20 years old
2. Quoted time frame for BIPD taking possession is minimally 6 months.
3. Quoted \$8,000 to add emergency equipment, replace insignia, install collapse-able top.
4. The boat is in need of some engine work, but it is not known to what extent and what costs would be.
5. It would be more fiscally responsible to invest in a boat the City of Belle Isle owns and can maintain possession of.

This is a very generous offer by Orange County, it is in the best interest of the City to decline this offer and move forward with the City's original request, dated August 4, 2017, for the purchase of a newer vessel with the assistance of the Navigation Board as follows:

\$23,000 to assist the City in the purchase of a new Marine Patrol Boat. The total cost of this craft is \$46,133 and the City Council approved this as part of the capital plan for the FY2017-18 fiscal year. If the Board does not want to fund this in one budget year, then we request the Board fund this equipment by allocating \$5,000 per year for the next five years.

The City believes this request for funding is authorized under Florida Law 59-1649 which states, in part, "Section 19...The Board is also authorized and empowered to expend funds collected by the taxing, and fee provisions of this law, to build, construct, erect, and maintain wells, canals, and drainage facilities and to provide suitable personnel and equipment to regulate the control of watercraft using the said waters of the district, and in general to carry out the intent and purpose of this act."

Therefore in order to help in the intent and purpose of the Lake Conway Navigation Control District Board, the City requests that the funding for the project described above be approved and authorized by the Board. The City does not expect the funding to come from the County's General Fund, but from the Lake Conway MSTU that all Belle Isle residents are required to pay. Thank you for your consideration.

Sincerely,

A handwritten signature in black ink, appearing to read 'Bob Francis', with a long horizontal flourish extending to the right.

Bob Francis, ICMA-CM
City Manager

Proposed Sweeping Additions 2018

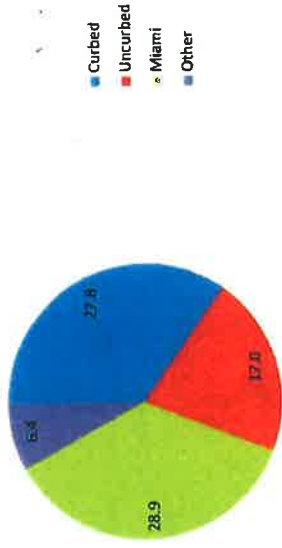
Route	Curbed	Uncurbed	Miami	Other	Total curb miles
Original	27.8	17.0	28.9	6.4	80.1
Proposed	28.3	29.5	30.0	6.4	94.2
Percent change	2%	75%	4%	0%	18%

Proposed Sweeping Route A (Weekly, 72/year)

Cost	Curbed Cost	Uncurbed Cost	Miami Cost	Other	Total Cost
Original	\$48,020.43	\$29,407.65	\$49,865.80	\$11,076.00	\$138,369.88
Proposed	\$48,908.11	\$51,029.83	\$51,763.40	\$11,076.00	\$162,777.35

Cost Increase: \$24,407.47

Original Sweeping Curb Types

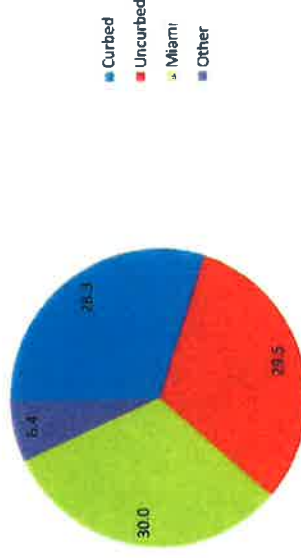


Proposed Sweeping Route B (Uncurbed Semiannually)

Cost	Curbed Cost	Uncurbed Cost	Miami Cost	Other	Total Cost
Original	\$48,020.43	\$816.88	\$49,865.80	\$11,076.00	\$109,779.11
Proposed	\$48,908.11	\$1,417.50	\$51,763.40	\$11,076.00	\$113,165.01

Cost Decrease: \$25,204.87

Proposed Sweeping Curb Types

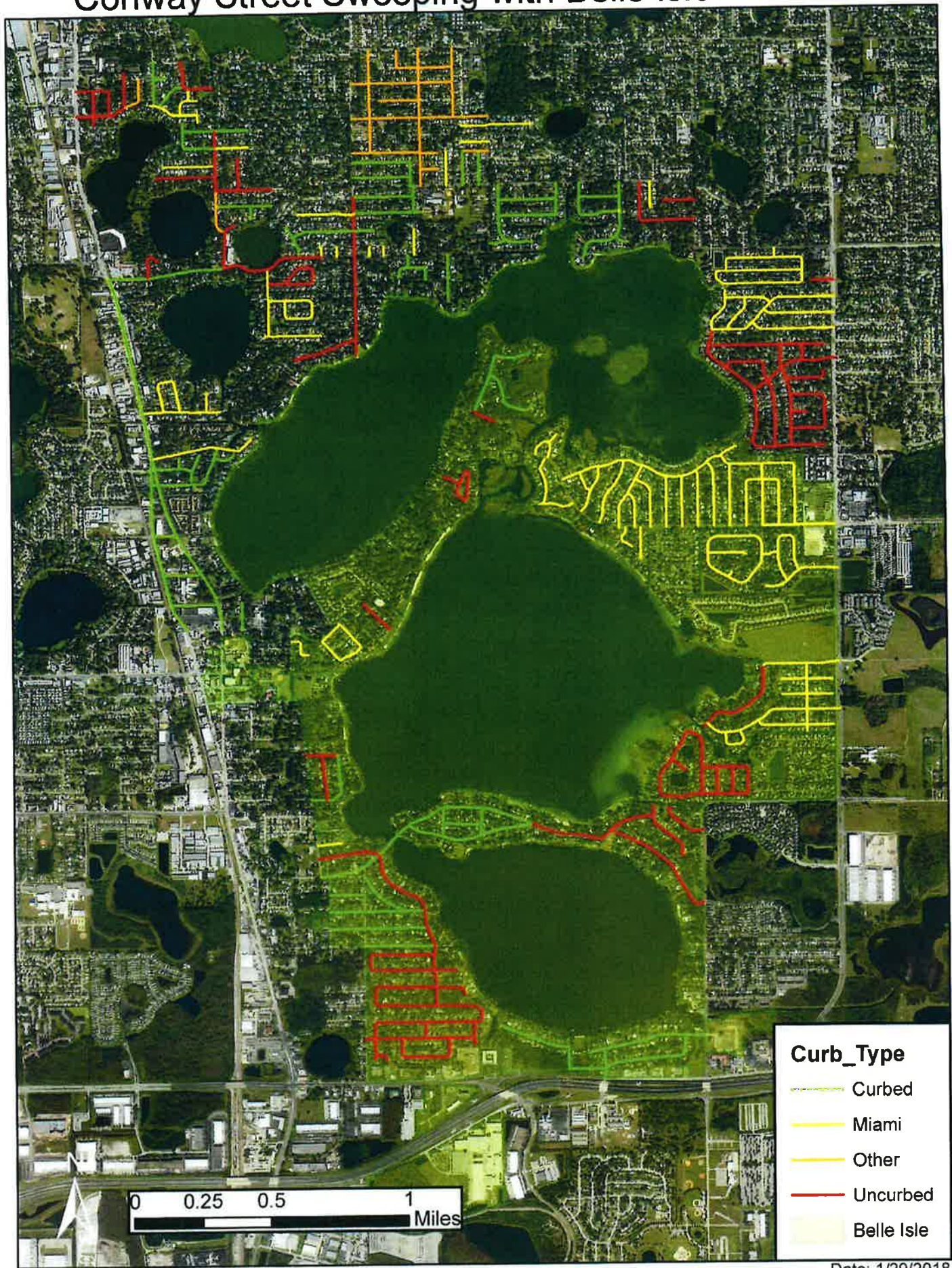


Proposed Sweeping Route C (Uncurbed Monthly)

Cost	Curbed Cost	Uncurbed Cost	Miami Cost	Other	Total Cost
Original	\$48,020.43	\$4,901.27	\$49,865.80	\$11,076.00	\$113,863.51
Proposed	\$48,908.11	\$8,504.97	\$51,763.40	\$11,076.00	\$120,252.49

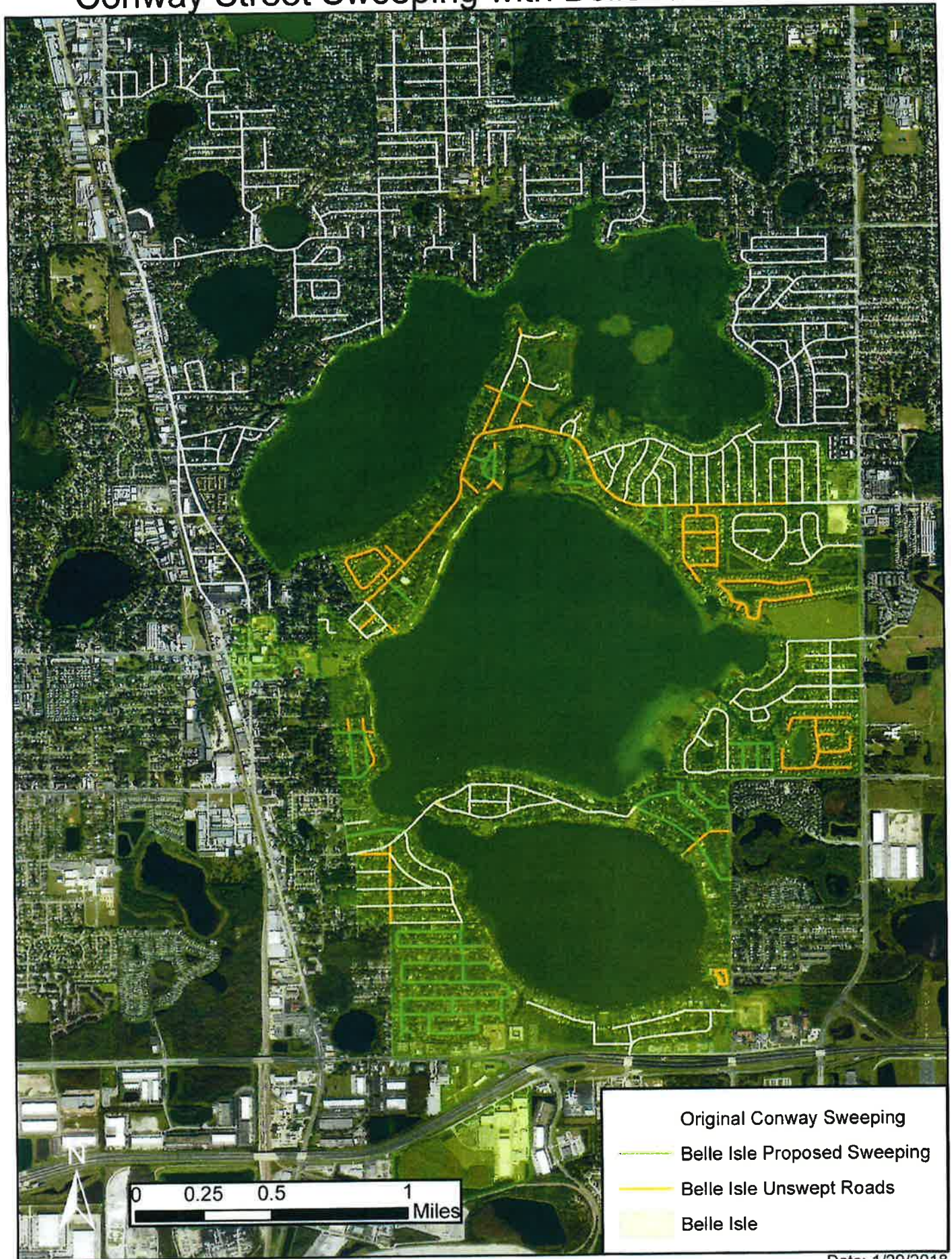
Cost Decrease: \$18,117.39

Conway Street Sweeping with Belle Isle Additions

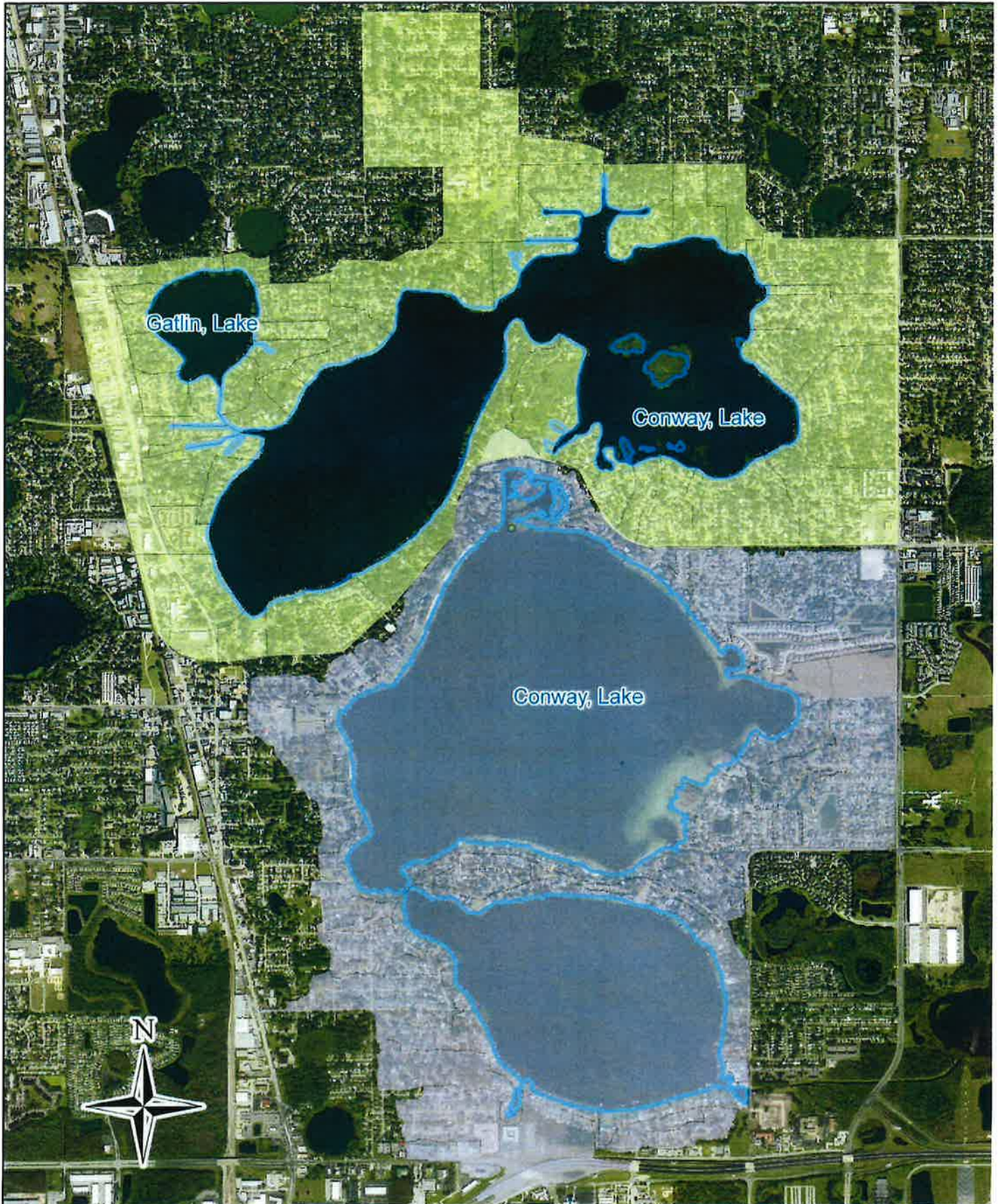


Date: 1/29/2018

Conway Street Sweeping with Belle Isle Additions



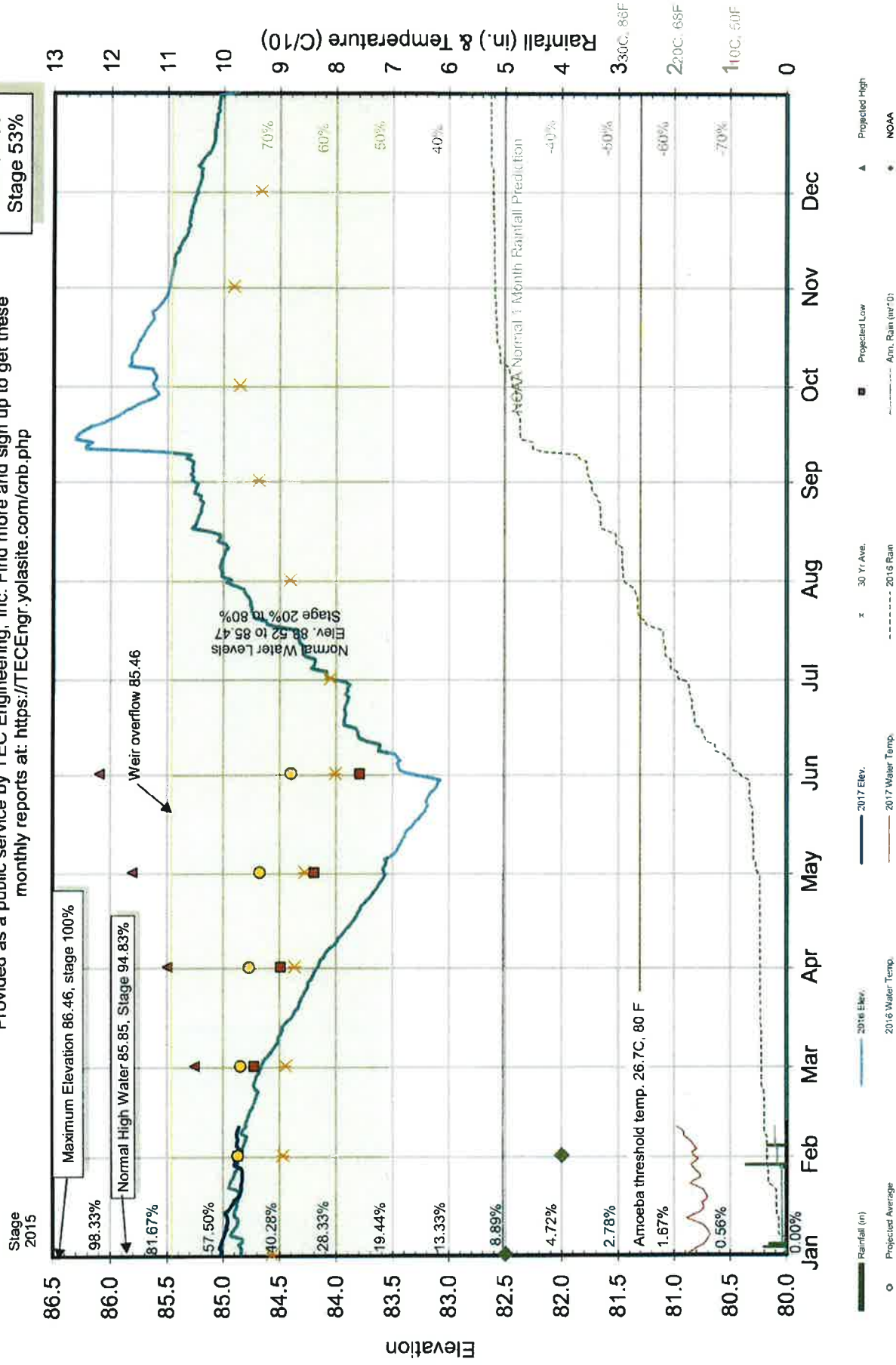
Conway Chain of Lakes Drainage Basin



Lake Conway 2018 Elevations (NAVD 88)

Provided as a public service by TEC Engineering, Inc. Find more and sign up to get these monthly reports at: <https://TECEngr.yolasite.com/cnb.php>

1/31/18
Elev 84.88
Stage 53%




Lake Conway Water Surface 2018.xls


Understanding the Level Chart


We are glad you are interested enough in your lake to take a look at this chart. It will be updated monthly just before the Orange County Lake Conway Water and Navigation Control District Advisory Board meeting which is the second Tuesday of each month. The "Nav. Board" is where you can find more information about our lakes. You can also report issues regarding water quality and navigation to them at the meetings. Currently these meetings are being held at the Orange County Facilities Training Room, 2010 E. Michigan Street, Orlando, FL at 6:30 PM. Be sure to check the meeting place and time [here](#).

The primary purpose of this chart is to show you the relationship between the current elevation of the lake and the normal level. To accomplish this we have included markers indicating the average elevation of the lake for each month and the daily elevation for the last year. Based on the data from the 30 year period between 1986 and 2015 we also provide a 4 month projection of where the lake level may go. It also contains other information that may be of interest such as the amount of rainfall and water surface temperature. The following description of the data should make it much easier to understand.

Each data description is preceded by a symbol which represents how the data will look on the chart.

 **THIS YEAR ELEVATION** - This is the daily lake level for the current year. Its scale is on the left side of the chart.


 **LAST YEAR ELEVATION** - This shows the daily lake level for last year to help show the expected variation throughout the year. Its scale is also on the left side of the chart.


 **PROJECTED AVERAGE** - This is the lake level we would expect if all conditions in the next month or two match the averages recorded during the 30 years including 1981 to 2015 for these months. Its scale in feet is on the left side of the chart. This average was obtained by averaging all the level rises and falls for each month in that 30 year period.

So here is how to read it. Use the numbers on the right side and multiply them by 10. 2 would be 20 degrees and 3 would be 30 degrees Celsius. Since most of us are used to Fahrenheit here is a conversion table.

Chart	Deg. C	Deg. F	Chart	Deg. C	Deg. F
1.5	15	59.0	2.6	26	78.8
1.6	16	60.8	2.7	27	80.6
1.7	17	62.6	2.8	28	82.4
1.8	18	64.4	2.9	29	84.2
1.9	19	66.2	3.0	30	86.0
2.0	20	68.0	3.1	31	87.8
2.1	21	69.8	3.2	32	89.6
2.2	22	71.6	3.3	33	91.4
2.3	23	73.4	3.4	34	93.2
2.4	24	75.2	3.5	35	95.0
2.5	25	77.0	3.6	36	96.8

— **AMOEBIA THRESHOLD TEMP.** - The horizontal orange line on the lower part of the chart represents the temperature above which the *Naegleria fowleri* amoeba begins to thrive in lake water and extra precautions should be taken to prevent infection. It is wise to always assume a possible presence of the amoeba in all warm fresh water bodies. When the lake temperature is above 80 F or 27.6 C there is a higher potential of this organism entering one's body and causing brain damage which usually results in death. For more information on this amoeba please [click here](#).

 **WEIR ELEVATION** - Lake Conway has a weir on the south lake at a nominal elevation of 86.4 (Since the datum elevation was adjusted on 8/31/2000 and the weir has settled some by 2009 when it was stabilized the actual elevation is between 86.03 and 86.36).

 **NORMAL WATER LEVELS** - According to Orange County regulations the Normal High Water (NIHW) is established as 6" above the weir elevation. The Normal High Water elevation (NIHW) was established 10/1/1982 using NVGD 29 (National Vertical Geodetic Datum 1929) by code using an elevation 6" above the top of the weir at Daetwyler Ave. which was 86.4 on the same datum. In 2015 Orange County converted to using NAVD 88 (North American Vertical Datum

percentage of months below that can be calculated resulting in the Lake Stage percentage for that elevation range.

Since the Lake Stage is calculated using 30 years worth of data a 1 year shift in the data does not create a substantial difference in the results so the Lake Stage data will only be updated every 5 years. The "2020 Lake Stage" data will be recalculated in early 2021 using information from 1991 through 2020.