

*Board of County Commissioners*

**Shoreline Alteration/Dredge and Fill Permit  
Application**

**SADF-20-06-012**

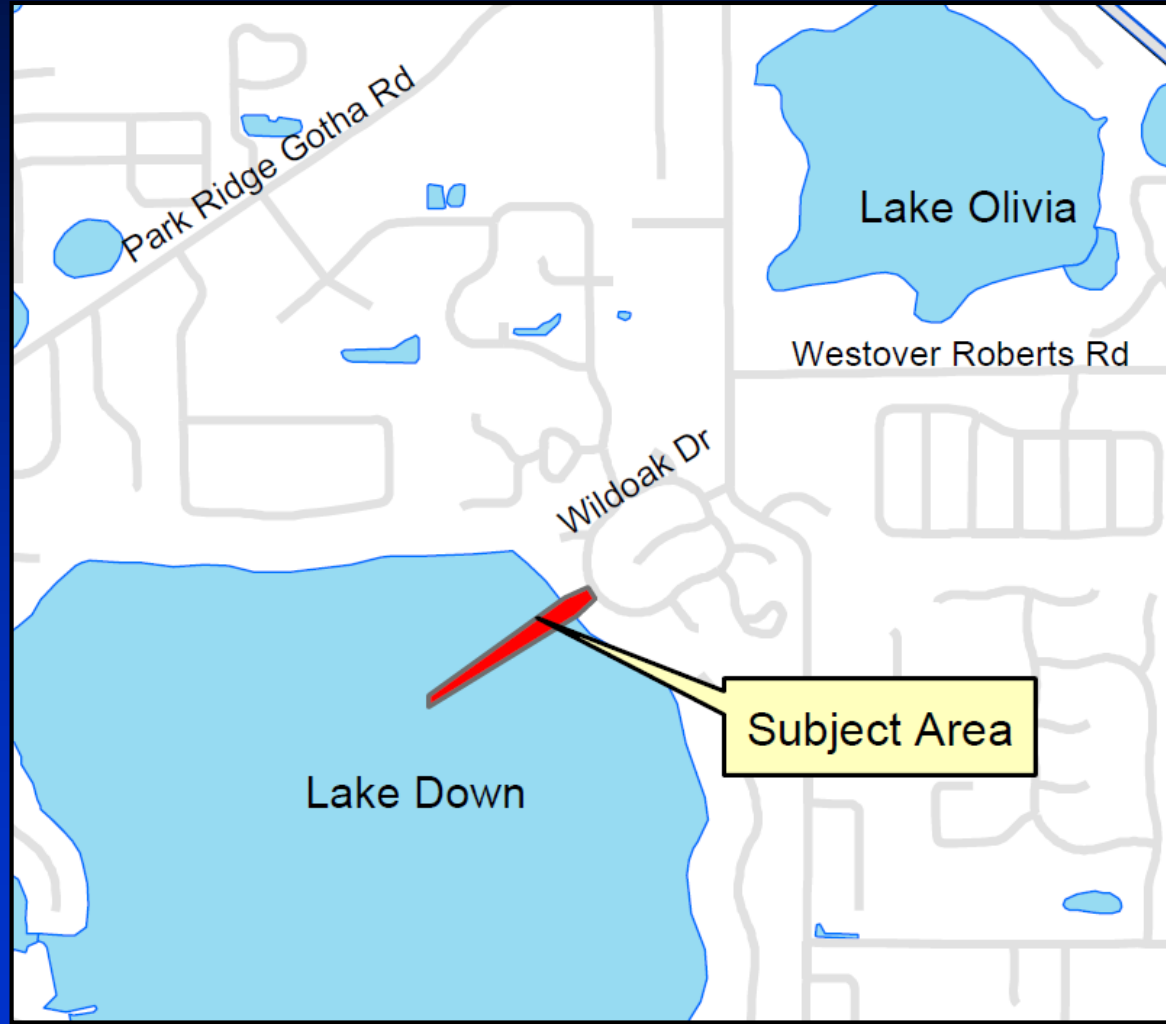
**Applicant: Bruce Knox**

**April 13, 2021**



# Location Map

9716 Wildoak Drive



Parcel ID No.: 04-23-28-9332-00-820

9716 Wildoak Drive



Parcel ID No.: 04-23-28-9332-00-820



# Existing Conditions





# Site Plans

S 54°48'37" W 51.25'(P)

PLAT CORNER

LOT 82

RIP RAP BETWEEN NEW AND EXISTING SEAWALLS

PLAT CORNER

ANCHOR ROD & CONC. DEADMAN  
10'-0" O.C. (MAX.)

40.8±

TURBIDITY CURTAIN  
NHWL ELEVATION OF 98.52' (NAVD 1988) LINE  
EDGE OF WATER AT TIME OF SURVEY

DENOTES: 1 GAL. PICKREAL-ARROW HEAD NATIVE AQUATIC PLANTING  
3 -ROWS, 24" O.C. STAGGERED FROM 98.55' TO 99.00' EL.

NHWL ELEVATION OF 98.52' (NAVD 1988) IS BELOW THE WATER LEVEL AT TIME OF THE SURVEY

EXISTING WOODEN DOCK AND BOAT SLIP

DENOTES: 1' TO 3' DIAMETER STONE RIP RAP WITH 1:3 RATIO TO MIN 50% HEIGHT OF SEA-WALL OVER FILTER FABRIC MEMBRANE

PROPOSED TOP OF SEAWALL ELEVATION IS 100.93'

RIP RAP BETWEEN NEW AND EXISTING SEAWALLS

PLAT CORNER

N 58°37'14" E

LAKE DOWN

TOP OF DOCK ELEVATION IS 100.93'

NHWL ELEVATION IS 98.52' (NAVD 1988 DATUM)

02-12-2021

REMARKS:  
1) 40 PSF BALCONIES,  
2) 60 PSF DECK,  
3) 30 PSF  
4) HAS BEEN DESIGNED TO MEET

+/- 12'-0" U.O.N.

LINE DENOTES THE 98.52' NHWL

ADD DIRT AS NEEDED BEHIND SEA WALL  
BAR COATED 1/2" MIN HOOK CAP BEAM AND BEND IN THE DEADMAN

16" x 12" CAST IN PLACE CONCRETE CAP BEAM (3,000 PSI MIN.)

W/ (4) - #5 BARS CONTINUOUS

1 GAL. PICKREAL-ARROW HEAD NATIVE AQUATIC PLANTING  
3 -ROWS, 24" O.C. STAGGERED FROM 98.55' TO 99.00' EL.

100.93' TOP OF SEAWALL

EXISTING DOCK

2" WEEP HOLE 10' O.C. W/ PVC WEEP INSERTS WITH BUILT IN FILTRATION

4" X 16" CONCRETE ANCHOR (3,000 PSI MIN.)

1' TO 3' DIAMETER STONE RIP RAP WITH 1:3 RATIO TO MIN 50% HEIGHT OF SEA-WALL OVER FILTER FABRIC MEMBRANE

7" THICK PANEL

RD FLAT PANEL, FP 475 SERIES, PANEL BELOW MUD LINE AND SED ABOVE MUD LINE

SEA WALL CROSS SECTION



## Riprap and Plantings

- Riprap and plantings will be installed waterward of the new seawall.
- Riprap will extend a minimum of 50% of the height of the seawall face and will be constructed with 1 foot to 3-foot diameter stone.
- Plantings will consist of 3 rows of native aquatic vegetation waterward of the riprap.



## Considerations

- Project reviewed in accordance with Chapter 33, Article IV and the review criteria and conditions of issuance therein.
- There are existing seawalls located to the north and south of the proposed seawall.
- Erosion is evident along the applicant's shoreline.
- Notification of the public hearing was sent to property owners within 500 feet of the project site.
- EPD has received no objections to the project.



## Finding

- EPD staff has evaluated the proposed SADF permit application pursuant to Orange County Code, Chapter 33, Article IV, and has made a finding that the request is consistent with Section 33-129.





## Action Requested

- **Acceptance of the findings and recommendation of the Environmental Protection Division staff and approval of Shoreline Alteration/Dredge and Fill Permit SADF-20-06-012 for Bruce Knox, subject to the conditions listed in the staff report. District 1**