

FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION STRATEGIC MONITORING PROGRAM FIELD SHEET

January 2019

Data Qualified?

Yes / No

WIN Station Name: Dorset Lake

Date: 05/06/2019
(mm/dd/yyyy)

WIN/ Field ID: G2SW0083

WBID: 1523F

Latitude: 28.06750

(Decimal Degrees)

County: Hillsborough

ORG ID: 21FLTPA

Longitude: -82.47390

(Decimal Degrees)

Receiving Body of Water: NA

RQ-2019- 05-06-15

Sampling Team Members					WQ Measurements	Sample Collection	Documentation	Preservation	Preservation Check
Ben Paswater									
Sarah Meyer									

Sampling Equipment		
☒ Sample Container	☐ Van Dorn	☐ Pole
☐ Carboy	☐ Syringe	
☐ Dipper	☐ Other	
Depth Measured with: Secchi		
Equipment ID: <u>Secchi #1</u>		
Collection Method		
☐ Wading	☒ Canoe/Kayak	
☐ From Shore	☐ Electric Motor	
☐ Other	☐ Gasoline Motor	

Water Level: Dry/ Pooled/ Low / Normal / High / Flooded

Meter ID# Chewy

Matrix: Fresh Marine / DI

Photos: Yes / No

Flow: No Flow / Interstitial / Flowing / NA

Tide: Rising/ Falling/ Slack/ NA

Tide Times: High — Low —

Time Zone	Time	Total Depth (m)	Sample Depth (m)	Secchi Disk (m)	DO (mg/L)	DO (%SAT)	pH	Salinity (PPT)	Sp COND (umhos/cm)	Temp. (C°)
EST	1010	2.6	0.3	2.65	4.19	53.1	6.68	0.10	210.0	27.6
			2.1		0.32	3.9	6.10	0.10	210.0	26.1

Biological Samples Collected: None HA SCI RPS Algae ID LVS LVI Other:

SBIO ID Numbers: SBIO-ID: 79663 HA-ID: 15941 RPS-ID: NA Macrophyte-ID: 11311 LIMS#: 2084060

Parameter Suite	Parameter Methods	Preservation	Lot#	Expiration	pH Check
Preserved Nutrients	☒ W-NH3 / W-NO2NO3 / W-TKN / W-TOC / W-5-A-TP	☒ Ice ☒ H2SO4	SA8344070	12/10/19	☒ <2
Metals	☐ W-ICPMS ☐ W-ICP	☐ Ice ☐ HNO3			☐ <2
Filtered Nutrients	☒ W-PO4-F ☐ Field Filtered 0.45 um Filter	☒ Ice			
Chlorophyll	☒ CHLSUITE-W	☒ Ice			
Physical/Aggregate (Fresh)	☒ Alkalinity / W-F / W-TSS / TURBIDITY / W-CL-IC / W-COLOR / W-SO4-IC / W-TDS	☒ Ice			
Physical/Aggregate (Marine)	☐ Alkalinity / W-BR-IC / W-F / W-TSS / TURBIDITY	☐ Ice			
Macroinvertebrates	☐ MI-FW-QLDC	☐ Formalin			
Periphyton	☐ ALGAE-ID	☐ Ice			
Microbiology	☐ E Coli ☐ F Coli ☐ Enterococci	☐ Ice			
Molecular	☐ PCR-FILTER ☐ PCR-BACR ☐ PCR-GULL2 ☐ PCR-HF183 ☐ PCR-DG3 ☐ PCR-GFD	☐ Ice			
Tracers	☐ W-E8321-DI ☐ W-E8321-MS	☐ Ice			
Pesticides	☐ W-PSNP-TQ ☐ W-CT-CL-R ☐ W-E8321-DI ☐ W-PCL-SQ-R ☐ W-E8321-MS ☐ W-CARB-AA	☐ Ice			
Phytoplankton	☐ DTY-QN-C ☐ PKD-QN-C				

Notes:

Field ID/WIN

G2SW0083

Site Name: Dorset Lake @ Center

Signature: Sarah Meyer

Date: 05/06/2019

LIMS EVENT ID: 2019-05-07-02

WIN Import ID: 12740 13223

Enter Field Parameters, Verify Station ID In LIMS DMT: SM 05/22/2019

QC Station ID, Field Parameters In LIMS DMT: SM 06/13/2019

Scan/Save Field Sheets SM 09/16/2019
(Initials/Date)

Migrate Data to WIN: SM 07/31/2019
(Initials/Date)

Verify Data In WIN: SM 09/16/2019
(Initials/Date)

Invest: B Paswater S Meyer		Waterbody: Dorset Lake		County: Hillsborough	
FORET: G2SW0083		Signature: Sarah Meyer		Date: 05/06/2019	
Except where noted as "sp." species level identification required. *Genera that may require lab verification*				Lake units sampled (circle one group):	
Plants in bold = FLEPPC invasive exotic.				1, 4, 7, 10 2, 5, 8, 11	
It is important to note dominant or co-dominant taxa (by areal extent) for each unit. Use "D" to denote dominant taxon, or "C" for the 2 co-dominant taxa.				3, 6, 9, 12	

SPECIES	12	9	6	3	Collected? (✓)	SPECIES	12	9	6	3	Collected? (✓)
Acer rubrum						Habenaria repens					
Alternanthera philoxeroides	✓	✓	✓	✓		Hymenachne amplexicaulis					
Andropogon sp.						Hydrilla verticillata					
Azolla filiculoides (A. caroliniana)						Hydrocotyle sp.	✓	✓	✓	✓	
Baccharis sp.						Hygrophila polysperma					
Bacopa caroliniana						*Hypericum fasciculatum					
Bacopa monnieri						*Hypericum hypericoides					
Bidens laevis						*Hypericum myrtifolium					
Bidens mitis						Ilex cassine					
Blechnum serrulatum						Ipomoea aquatica					
Boehmeria cylindrica						Ipomoea sagittata					
Brasenia schreberi						Itea virginica					
Cabomba caroliniana						Juncus effusus					
Casuarina equisetifolia						*Juncus marginatus					
Centella asiatica						*Juncus megacephalus					
Cephalanthus occidentalis						Juncus repens					
Ceratophyllum demersum						*Juncus scirpoides					
Chara sp.						Lachnanthes caroliniana					
Cladium jamaicense						Leersia hexandra					
Cliftonia monophylla						Landoltia punctata (Spirodela punctata)					
Colocasia esculenta		✓				Lemna sp.					✓
*Commelina						Leucothoe racemosa (Eubotrys racemosa)					
Crinum americanum						Limnium spongia					
* Cyperus alternifolius (C. involucratus)						Limnophila sessiliflora					
Cyperus articulatus						Liquidambar styraciflua					
Cyperus haspan				✓		*Ludwigia arcuata					
*Cyperus lecontei				✓		*Ludwigia leptocarpa	✓	✓	✓		
*Cyperus polystachyos				✓		*Ludwigia linearis					
*Cyperus odoratus		✓				*Ludwigia octovalvis					
*Cyperus surinamensis				✓		* Ludwigia peruviana					
Cyrtilla racemiflora						*Ludwigia repens					
Decodon verticillatus						*Ludwigia					
Diodia virginiana						Luziola fluitans (Hydrochloa carolinensis)					
*Echinochloa crus-galli						Lyonia lucida					
*Echinochloa muricatum											
Echinochloa walteri						<i>Chasmanthium latifolium</i>		✓			✓
Eclipta prostrata (E. alba)											
Egeria densa											
Eichhornia crassipes	✓	✓	✓								
*Eleocharis baldwinii											
*Eleocharis											
Eleocharis cellulosa											
Eleocharis equisetoides											
Eleocharis interstincta	✓										
*Eriocaulon compressum											
*Eriocaulon decangulare											
Eupatorium capillifolium											
*Fuirena				✓							
Fuirena scirpoidea											
Gordonia lasianthus											

Field ID/WIN

G2SW0083



Site Name: Dorset Lake @ Center

⑥ Nymphaea

③ Nymphaea



Date: 05/06/2019

Name: Dorset Lake @ Center

Collected?
(✓)

1296 3

SPECIES

Collected?
(✓)

129 63

[illegible]

NET STATION NUMBER: E STICKER UPPER RIGHT	FIELD ID / NAME: PUT STICKER ^	LAKE NAME Dorset Lake		ECO-REGION: 7504																
front page	LAKE SIZE: Small	SAMPLING LOCATION/DESCRIPTION: Lake Center		COUNTY: Hillsborough																
PARAMETER	No surface inflow or outflow present, very long water residence time, groundwater seepage dominates ☐	Surface water inflow present, but flow is rare, moderate to long water residence time ☒	Surface water inflow and outflow present (or outflow only), sometimes with visible flow, short water residence time ☐	Impounded, hydrology of system artificially controlled ☐																
HYDROLOGY																				
Color	Very clear, uncolored water (benthic sampling appropriate) ☒	Water somewhat tannin stained (benthic sampling appropriate) ☐	Dark, discolored water (water color 20 PCU or higher) ☐	Visibility extremely reduced due to high color ☐																
	Optimal	Suboptimal	Marginal	Poor																
Secchi	Secchi > 3 m Or VOB	Secchi(m)	3	2.6	2.2	1.8	1.4	1.0	0.9	0.8	0.7	0.6	0.5	0.4	0.3	0.2	0.1			
18	20	19	18	17	16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1
Vegetation Quality	Diverse, expected native vegetation (emergent or submersed), less than 5% nuisance taxa 14	Mostly expected native plants, but moderate growths (6%-20% of lake) of nuisance macrophytes, or more than 50% of lake covered with plants 14	Large masses (21%-40%) of nuisance macrophytes (e.g., Hydrilla, hyacinth, cattail, etc.) or algal mats	Lake choked (>40%) with nuisance macrophytes (duckweed, hyacinth, etc.) or algal mats, or few plants present at all (e.g., plants removed)																
Stormwater Inputs	Stormwater enters system via sheet flow over non-cultivated and/or natural vegetation 14	Some direct stormwater inputs (ditches, pipes, cultivated vegetation < 10%) but good BMPs in place 14	Moderate direct inputs of stormwater (ditches, pipes, cultivated vegetation 11%-50%) but few BMPs in place	Much direct input of stormwater (ditches, pipes, cultivated vegetation > 51%) and no or ineffective BMPs in place																
Bottom Substrate Quality	Diverse mixture of sand, detritus, with small amounts of CPOM/mud/muck. SAV may be present 18	Mixture of sand or clay and detritus with higher % CPOM/mud/muck content. SAV may be present	Moderate layer of CPOM/mud/muck, or hardpacked sand only, or moderate algal growth (mats or Chara) on bottom	Thick deposits of CPOM, or fine detritus and anaerobic muck/mud/silt, or algal growth or nuisance plants (Hydrilla) cover bottom																
Lakeside Adverse Human Alterations	Very few man-made structures, roads, or other disturbance adjacent to lake (<10%) 8	Moderate disturbance visible (structures, roads or other), 10%-49% lakeside affected	Many structures, roads or other human disturbance visible (50%-70%) lakeside affected	Highly developed or disturbed (>70% of lakeside affected)																
Upland Buffer Zone	Expected native vegetation between uplands and littoral zone, greater than 90% of shore with >18 m buffer 4	89%-51% of shoreline with >18m buffer or >75% with 10m to 18m buffer	50%-30% of shoreline with >18m buffer or 50%-74% with 10m to 18m buffer	< 29% of shoreline with >18m buffer																
Adverse Watershed Land Use	Score the potential effects from adverse human land uses, based on a continuum of amount and type, with least to most adverse as follows: Native vegetation, Silviculture, Pasture or Citrus, Low Density Residential, Row Crops, Commercial, High Density Residential, Urban, Industrial 10	Score the potential effects from adverse human land uses, based on a continuum of amount and type, with least to most adverse as follows: Native vegetation, Silviculture, Pasture or Citrus, Low Density Residential, Row Crops, Commercial, High Density Residential, Urban, Industrial		Score the potential effects from adverse human land uses, based on a continuum of amount and type, with least to most adverse as follows: Native vegetation, Silviculture, Pasture or Citrus, Low Density Residential, Row Crops, Commercial, High Density Residential, Urban, Industrial																

TOTAL
SCORE

86

COMMENTS:

ANALYSIS DATE:

5/6/19

ANALYST:

Ben Paswater

SIGNATURE:

Ben Paswater

Site Name: Dorset Lake @ Center

SAMPLING AGENCY: FLUEP SWKOL

COUNTY: Hillsborough
LAKE SIZE: Small
TIME: 10 10

WATERSHED / LAKESIDE FEATURES

PREDOMINANT LAND-USE IN WATERSHED (specify relative percent in each category - from GIS):										LANDSCAPE DEVELOPMENT INTENSITY (100 m buffer)				
Forest/Natural	Silviculture	Field/Pasture	Agricultural	Residential	Commercial	Industrial	Other (Specify)	LDI: <u> </u>						
<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u>70</u>	<u>30</u>	<u> </u>	<u> </u>	Land Use Source & Year: <u> </u>						
Local Watershed Erosion (select one): ☐ None ☒ Slight ☐ Moderate ☐ Heavy										Artificially Impounded ☐ Yes ☒ No				
Local Watershed NPS Pollution: ☐ No evidence ☐ Slight ☒ Moderate ☐ Heavy														
STORMWATER INPUTS		Stormwater enters system via sheet flow over non-cultivated and/or natural vegetation		Some direct stormwater inputs (ditches, pipes, cultivated vegetation < 10%) but good BMPs in place		Moderate direct inputs of stormwater (ditches, pipes, cultivated vegetation 11%-50%) but few BMPs in place		Much direct input of stormwater (ditches, pipes, cultivated vegetation > 51%) and no or ineffective BMPs in place						
<u>14</u>		20	19	18	17	16	15	14	13	12	11			
LAKESIDE ALTERATIONS		Very few man-made structures, roads, or other disturbance adjacent to lake (<10% lakeside affected)		Moderate disturbance visible - structures, roads or other (10%-49% lakeside affected)		Many structures, roads or other human disturbance visible (50%-70% lakeside affected)		Highly developed or disturbed (>70% of lakeside affected)						
<u>8</u>		20	19	18	17	16	15	14	13	12	11			
BUFFER ZONE		Expected native vegetation between uplands and littoral zone, greater than 90% of shore with >18 m buffer		89%-51% of shoreline with >18m buffer or >75% with 10m to 18m buffer		50%-30% of shoreline with >18m buffer or 50%-74% with 10m to 18m buffer		< 29% of shoreline with >18m buffer						
<u>4</u>		20	19	18	17	16	15	14	13	12	11			
		10	9	8	7	6	5	4	3	2	1			

WATER / SUBSTRATE / BIOLOGICAL: SAMPLES AND OBSERVATIONS

Water: Nutrient Sample Taken? ☒ Yes ☐ No Preserved? ☒ Yes ☐ No pH < 2 ☐ No Color Sample Taken? ☒ Yes ☐ No Lot # <u> </u> Exp. Date: <u> </u> Alkalinity Sample Taken? ☒ Yes ☐ No Water Level ☐ Low ☒ Normal ☐ High										Water Odors: ☒ Normal ☐ Sewage ☐ Petroleum ☐ Other <u> </u>									
Meter Readings: Top: Depth (M) <u>0.3</u> Temp. (°C) <u>27.6</u> pH (SU) <u>6.68</u> D.O. (MG/L) <u>4.19</u> D.O. Sat. (%) <u>53.1</u> Cond. (UMHO/CM) <u>210.0</u> Salinity (PPT) <u>0.10</u> Mid-Depth: <u> </u> <u> </u> <u> </u> <u> </u> <u> </u> <u> </u> <u> </u> Bottom: <u>2.1</u> <u>26.1</u> <u>6.10</u> <u>0.32</u> <u>3.9</u> <u>210.0</u> <u>0.10</u>										Water Surface Oils: ☒ None ☐ Sheen/Slick ☐ Glob ☐ Other <u> </u>									
Meter ID: <u> </u>										Clarity: ☒ Clear ☐ Opaque ☐ Turbid ☐ Slightly Turbid Color: ☒ Clear ☐ Tannic ☐ Green									
Sediment Type: (may check more than one) ☒ Sandy ☐ Organic fibrous (peaty, CPOM) ☒ Sample Taken? ☐ Yes ☒ No ☐ Sand/Silt ☐ Organic smooth (muck) ☐ Vegetated ☐ Other (Specify): <u> </u>										SECCHI (M) <u>2.6</u> Total Station Depth (M) <u>2.6</u> VOB ☒									
Biological Communities: LVI Conducted? ☒ Yes ☐ No Phytoplankton Sample Taken? ☐ Yes ☒ No Sample Preserved? ☐ Yes ☐ No Lot #: <u> </u> Exp Date: <u> </u> Algal Bloom/Algal ID Sample Taken? ☐ Yes ☒ No Active Vegetation Mgmt? ☐ Yes ☐ No ☒ Don't Know										Sediment Odors: ☒ Normal ☐ Other (Specify): <u> </u> ☐ Anaerobic									
Weather Conditions: <u> </u>										Abundance: Absent Rare Common Abundant Periphyton ☐ ☐ ☒ ☐ Nuisance Plants ☐ ☐ ☒ ☐ Submersed Plants ☐ ☐ ☒ ☐ Exotic Apple Snails ☒ ☐ ☐ ☐									
Additional Notes: <u> </u>																			

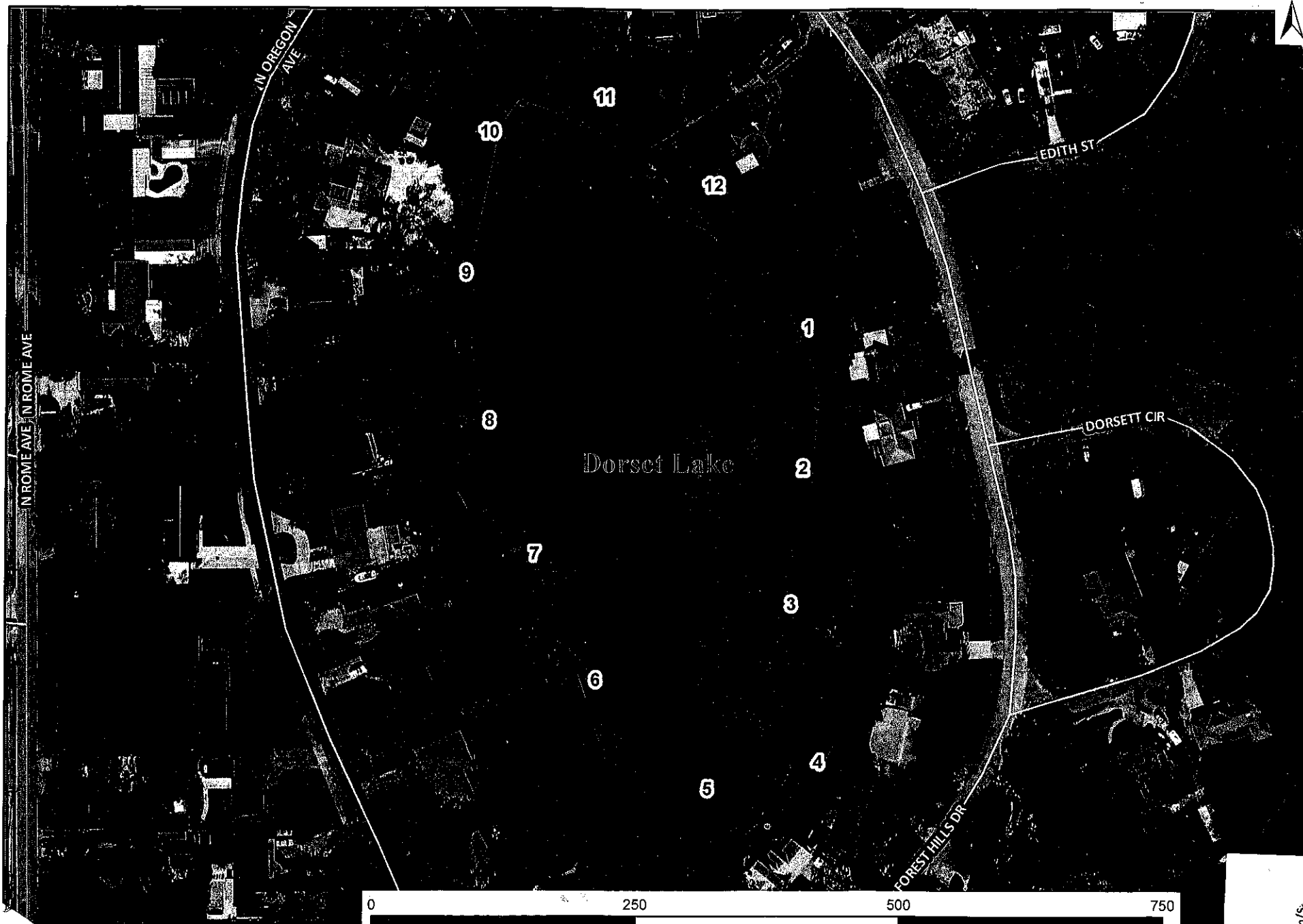
SAMPLING TEAM: Ben Paswater, Sarah Meyer

SIGNATURE: Ben Paswater

DATE: 5/6/19

Dorset Lake

LVI Map for , WBID 1523F



0 250 500 750

Feet

ent Date: 12/19/2018

ed. 1.

Ent.
Scan/Se

Florida Department of Environmental Protection

Central Laboratory Submittal Form

LVIs_Eckles, Dorset & Pine

Customer: SW-DIST

Requester: Judy Ashton

Field Report Prepared By: S Meyer

Project ID: SMP

Collected By: B Pasparto & S Meyer

Sampling Agency: FDEP SW ROC

Location		☐ Comp ☒ Grab	Collection (comp begin or grab) Date 05/06/2019 Time 1010		Eastern Central	Composite end Date _____ Time _____		Bottle Group(s) (See pg 2)
Field ID/WIN G2SW0083		Matrix (type, e.g., Salt, Fresh, etc)		Diss. Oxygen 4.19	☒ mg/L ☐ % sat	Total Res. Chlorine (mg/L)		A
Site Name: Dorset Lake @ Center		Temp (C) 27.6	pH 6.68	Sample Depth 0.3	☐ ft ☒ m	Sp. Conductance (umho/cm) 210.0		
☐ dd ☐ dms		Salinity (ppt) 0.10	Comments					
Location		☐ Comp ☒ Grab	Collection (comp begin or grab) Date 05/06/2019 Time 1140		Eastern Central	Composite end Date _____ Time _____		Bottle Group(s)
Field ID/WIN G2SW0084		Matrix (type, e.g., Salt, Fresh, etc)		Diss. Oxygen 9.20	☒ mg/L ☐ % sat	Total Res. Chlorine (mg/L)		A/B
Site Name: Pine Lake @ Center		Temp (C) 28.8	pH 8.90	Sample Depth 0.3	☐ ft ☒ m	Sp. Conductance (umho/cm) 99.6		
☐ dd ☐ dms		Salinity (ppt) 0.09	Comments					
Location		☐ Comp ☒ Grab	Collection (comp begin or grab) Date 05/06/2019 Time 1400		Eastern Central	Composite end Date _____ Time _____		Bottle Group(s)
Field ID/WIN G2SW0082		Matrix (type, e.g., Salt, Fresh, etc)		Diss. Oxygen 7.46	☒ mg/L ☐ % sat	Total Res. Chlorine (mg/L)		A
Site Name: Lake Eckles @ Center		Temp (C) 29.5	pH 7.59	Sample Depth 0.3	☐ ft ☒ m	Sp. Conductance (umho/cm) 179.5		
☐ dd ☐ dms		Salinity (ppt) 0.08	Comments					
Location		☐ Comp ☒ Grab	Collection (comp begin or grab) Date _____ Time _____		Eastern Central	Composite end Date _____ Time _____		Bottle Group(s)
Field ID		Matrix (type, e.g., Salt, Fresh, etc)		Diss. Oxygen	☐ mg/L ☐ % sat	Total Res. Chlorine (mg/L)		
WIN/STORET #		Temp (C)	pH	Sample Depth	☐ ft ☐ m	Sp. Conductance (umho/cm)		
Latitude ☐ dd ☐ dms		Longitude ☐ dd ☐ dms	Salinity (ppt) ☐ dd ☐ dms	Comments				

Relinquished By: Sarah Meyer	Date/Time 05/06/2019 1700	Shipping Method FedEx	Number of Coolers Shipped: 1	Received By:	Date/Time
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Group: A	Bottle Type:	P-1L	# of Bottles: 3	Preservative:	ICE	Enter Number of Bottles Sent to Lab	3
	ALKALINITY						
	TURBIDITY						
	W-CL-IC						
	W-COLOR						
	W-F						
	W-SO4-IC						
	W-TDS						
	W-TSS						
Group: A	Bottle Type:	BP-1L	# of Bottles: 3	Preservative:	ICE	Enter Number of Bottles Sent to Lab	3
	CHLSUITE-W						
Group: A	Bottle Type:	P-500ML	# of Bottles: 3	Preservative:	ICE And H2SO4	Enter Number of Bottles Sent to Lab	3
	W-NH3						
	W-NO2NO3						
	W-S-A-TP						
	W-TKN						
	W-TOC						
Group: A	Bottle Type:	P-125ML	# of Bottles: 3	Preservative:	FILTER-ICE	Enter Number of Bottles Sent to Lab	3
	W-PO4-F						

Group B Bloom-ID

1